Reynolds School District #7
2015 Bond Projects

REQUEST FOR PROPOSALS
Construction Manager/General Contractor (CM/GC) Services
New Troutdale Replacement Elementary School

July 19, 2016

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1. SCOPE OF WORK

Based upon the adoption of new contracting rules for CM/GC dated 7/1/2014: 279C.337 Procurement of constructions manager/general contractor services. (1) A contracting agency that intends to procure construction manager/general contractor services shall procure the construction manager/general contractor services in accordance with model rules the Attorney General adopts under ORS 279A.065 (3). and (h) The contracting agency will conduct the procurement in accordance with model rules the Attorney General adopts under ORS 279A.065 (3).

1.1 General: Overview & Project Background

Reynolds School District invites written sealed Proposals for Construction Manager/General Contractor, (CM/GC), services for the 2015 Capital Projects GO Bond that was recently passed on May 19th by Reynolds School District constituents.

Reynolds School District serves 11,722 students in 18 schools.

After a two-year facilities study, the facilities master plan was adopted in October 2014. A community task force then prioritized the projects. The bond measure would pay for $125 million of the projects. The tax rate is estimated to be the same as the 2014 tax rate.

The District plans to replace three of its oldest schools on their current properties. Fairview and Troutdale elementary schools are 88 years old and Wilkes is 101 years old. According to the facilities study, the high school is over student Capacity by 750 students. Proceeds from the bond would add classroom space, renovate science labs, and make technology and security improvements at all schools.

Specifically, this bond measure allows the District to pay for capital construction and improvements to schools:

• Constructing, furnishing and equipping new elementary school buildings on their present sites of Fairview, Troutdale and Wilkes, including demolition and related site improvements.
• Construction, renovation, furnishing and equipping Reynolds High School including but not limited to new classrooms, modernization of science classrooms and labs, student common areas and related site improvements.
• Improvements to all schools through renovation, construction and equipment to create safe and secure vestibule entry ways and related site improvements.

The District has established a citizen oversight committee to ensure bond proceeds are only used for purposes indicated.

The proposer must be qualified and prepared to provide services to the District in the school site listed below (which constitute the “Project”).

Sitework and building design at existing school sites including the reclamation of demolished extant building locations repurposed for athletic, recreational and landscaped areas for:

• **TROUTDALE ELEMENTARY**
Current Capacity: 394
New Capacity: 519

The District will issue five separate Requests for Proposals (RFP) for CM/GC services for the Bond funded Capital Projects mentioned above. Proposers may propose on any solicitation or all. If a proposer should choose to submit a proposal for all of the Capital Projects they shall do so in five separate and distinct Proposals which will be evaluated separately. The selection of the winning proposer for the any of the portions of the Bond work does not provide an advantage or exclusion from being selected for the other projects that will request proposals.

The District reserves the right to determine what is in the best interest of the District and the completion of the Bond Projects when choosing the CM/GC. However, it will be incumbent on the proposer proposing, to demonstrate that they will have the capabilities to meet the deliverables scheduled for all projects on which they propose. Proposals must address in detail the proposer's verifiable approach to providing the manpower and resources to deliver the services necessary to attain the Districts goal.

The selection of a particular Contracting firm or firms for any or all of the Projects listed above will be at the sole discretion of the Reynolds School District as it determines which firm/firms will serve the Reynolds School District in its best interest, and will provide the most benefit to its 2015 Bond Projects.

The present schedule for the solicitation of CM/GC services has been sequenced in an effort to prevent the individual projects from completing with one another for proposing firms, and provide the best possible market conditions for the projects. It will be necessary that the same type of sequencing be used to prevent the competition between the individual projects, and to provide the best possible market for the scheduled start dates for the bidding and construction phases for each of the Projects. Regardless, of the selected proposer for each of the projects, it will be the CM/GC's responsibility on each project to provide coordination and cooperation with any of the other CM/GC's selected to provide the best possible results for all the projects and the School District. The Schedule attached for the above described project is as follows on the next Page:

Reynolds School District 2015 Bond CM/GC Selection Schedule

ID	Task Name	Duration	Start	Finish
1				
2	**CM/GC Selection Process**	**124 days**	**Mon 3/28/16**	**Thu 9/15/16**
3				
4	**CM/GC Selection Process of Reynolds Secure Vestibules District Wide**	**44 days**	**Mon 3/28/16**	**Thu 5/26/16**
5	Issue CM/GC RFP for Reynolds Secure Vestibules District Wide	1 day	Mon 3/28/16	Mon 3/28/16
6	Mandatory pre-proposal Meeting	1 day	Wed 4/13/16	Wed 4/13/16
7	Deadline for Question	1 day	Thu 4/21/16	Thu 4/21/16
8	RFP Addenda Issuance	1 day	Mon 4/25/16	Mon 4/25/16
9	**CM/GC Proposal Due for Reynolds Securily Vestibules District Wide**	1 day	Thu 4/28/16	Thu 4/28/16
10	Shortlist Firms Identified	4 days	Fri 4/29/16	Wed 5/4/16
11	Proposer Interviews	1 day	Tue 5/10/16	Tue 5/10/16
12	Notice of Intent to Award	1 day	Wed 5/11/16	Wed 5/11/16
13	Protest period & Contract Negotiations	5 days	Thu 5/12/16	Wed 5/18/16
14	Board Approval of Selection of CM/GC for Secure Vestibules	1 day	Wed 5/25/16	Wed 5/25/16
15	Begin Phase I CM/GC Services	1 day	Thu 5/26/16	Thu 5/26/16
16				
17	**CM/GC Selection Process of Reynolds High School Renovation**	**46 days**	**Thu 6/9/16**	**Thu 8/11/16**
18	Issue CM/GC RFP for Reynolds High School Renovation	1 day	Thu 6/9/16	Thu 6/9/16
19	Mandatory pre-proposal Meeting	1 day	Thu 6/23/16	Thu 6/23/16
20	Deadline for Question	1 day	Fri 6/24/16	Fri 6/24/16
21	RFP Addenda Issuance	1 day	Thu 6/30/16	Thu 6/30/16
22	**CM/GC Proposal Due for Reynolds High School Renovation**	1 day	Mon 7/18/16	Mon 7/18/16
23	Shortlist Firms Identified	5 days	Tue 7/19/16	Mon 7/25/16
24	Proposer Interviews	1 day	Thu 7/28/16	Thu 7/28/16
25	Notice of Intent to Award	1 day	Fri 7/29/16	Fri 7/29/16
26	Protest period & Contract Negotiations	5 days	Mon 8/1/16	Fri 8/5/16
27	Board Approval of Selection of CM/GC for Reynolds HS	1 day	Wed 8/10/16	Wed 8/10/16
28	Begin Phase I CM/GC Services	1 day	Thu 8/11/16	Thu 8/11/16
29				
30	**CM/GC Selection Process Wilkes Replacement Elementary School**	**47 days**	**Wed 5/11/16**	**Thu 7/14/16**
31	Issue CM/GC RFP for Wilkes Replacement Elementary School	1 day	Wed 5/11/16	Wed 5/11/16
32	Mandatory pre-proposal Meeting	1 day	Wed 6/1/16	Wed 6/1/16
33	Deadline for Question	1 day	Fri 6/3/16	Fri 6/3/16
34	RFP Addenda Issuance	1 day	Tue 6/7/16	Tue 6/7/16
35	**CM/GC Proposal Due for Wilkes Replacement Elementary School**	1 day	Fri 6/10/16	Fri 6/10/16
36	Shortlist Firms Identified	5 days	Fri 6/10/16	Thu 6/16/16
37	Proposer Interviews	1 day	Tue 6/21/16	Tue 6/21/16
38	Notice of Intent to Award	1 day	Wed 6/22/16	Wed 6/22/16
39	Protest period & Contract Negotiations	5 days	Thu 6/23/16	Wed 6/29/16
40	Board Approval of Selection of CM/GC for Wilkes Elementary School	1 day	Wed 7/13/16	Wed 7/13/16
41	Begin Phase I CM/GC Services	1 day	Thu 7/14/16	Thu 7/14/16
42				
43	**CM/GC Selection Process Fairview Replacement Elementary School**	**47 days**	**Wed 6/22/16**	**Thu 8/25/16**
44	Request use of Alternative Method from Reynolds School Board	1 day	Wed 6/22/16	Wed 6/22/16
45	Issue CM/GC RFP for Fairview Replacement Elementary School	1 day	Fri 7/1/16	Fri 7/1/16
46	Mandatory pre-proposal Meeting	1 day	Tue 7/19/16	Tue 7/19/16
47	Deadline for Question	1 day	Wed 7/20/16	Wed 7/20/16
48	RFP Addenda Issuance	1 day	Fri 7/22/16	Fri 7/22/16
49	**CM/GC Proposal Due for Fairview Replacement Elementary Schoc**	1 day	Mon 8/1/16	Mon 8/1/16
50	Shortlist Firms Identified	7 days	Tue 8/2/16	Wed 8/10/16
51	Proposer Interviews	1 day	Tue 8/16/16	Tue 8/16/16
52	Notice of Intent to Award	1 day	Wed 8/17/16	Wed 8/17/16
53	Protest period & Contract Negotiations	5 days	Thu 8/18/16	Wed 8/24/16
54	Board Approval of Selection of CM/GC for Fairview Elementary Schoo	1 day	Wed 8/24/16	Wed 8/24/16
55	Begin Phase I CM/GC Services	1 day	Thu 8/25/16	Thu 8/25/16
56				
57	**CM/GC Selection Process Troutdale Replacement Elementary School**	**47 days**	**Wed 7/13/16**	**Thu 9/15/16**
58	Request use of Alternative Method from Reynolds School Board	1 day	Wed 7/13/16	Wed 7/13/16
59	Issue CM/GC RFP for Troutdale Repacement Elementary School	1 day	Tue 7/19/16	Tue 7/19/16
60	Mandatory pre-proposal Meeting	1 day	Thu 8/4/16	Thu 8/4/16
61	Deadline for Question	1 day	Fri 8/5/16	Fri 8/5/16
62	RFP Addenda Issuance	1 day	Tue 8/9/16	Tue 8/9/16
63	**CM/GC Proposal Due for Troutdale Replacement Elementary Scho**	1 day	Fri 8/19/16	Fri 8/19/16
64	Shortlist Firms Identified	5 days	Mon 8/22/16	Fri 8/26/16
65	Proposer Interviews	1 day	Tue 8/30/16	Tue 8/30/16
66	Notice of Intent to Award	1 day	Wed 8/31/16	Wed 8/31/16
67	Protest period & Contract Negotiations	5 days	Thu 9/1/16	Wed 9/7/16
68	Board Approval of Selection of CM/GC for Troutdale Elementary Schoc	1 day	Wed 9/14/16	Wed 9/14/16
69	Begin Phase I CM/GC Services	1 day	Thu 9/15/16	Thu 9/15/16

The Reynolds School District is soliciting Requests for Proposals (RFPs) from experienced Construction Manager/General Contractor (CM/GC) capable of completing the replacement of Fairview Elementary Schools. The CM/GC is being selected early in the project to best serve the Reynolds School District's project in consideration of the following factors:

1. Provide the Reynolds School District and its design team with unique expertise and experience that will assist to select the most economical and timely construction solutions;

2. Ensure that existing operations of the Reynolds School District are maintained throughout construction with minimal disruption to ongoing operations of adjacent facilities

3. Implement procedures to aggressively manage the construction costs, schedule, and phasing requirements; and, minimize hazards related to the development of the site in and around wetland facilities.

4. Develop project procedures to manage the high risks and critical need for effective partnering and collaborative decision-making processes to ensure that jobsite safety is not compromised and that impacts on subcontractors are minimized, while performing significant work around a functioning Charter School and District Administration office.

5. The need for contractor expertise to develop means and methods strategies of work-around site logistics solutions to re-constructing the facility while maintaining other adjacent ongoing operations. Construction work will need to be carefully staged and coordinated to ensure safety of the public at all times.

6. Provide procurement and implementation strategies for complex phasing of the Project to leverage early bid package(s), while allowing time for additional design solutions for later bid packages and coordination of work activities in and around sensitive environmental conditions.

7. The Project's budget limitations and the need to identify cost-effective solutions through constructability reviews, value engineering and collaboration with stakeholders to meet budget constraints.

8. Recognize and support district Local and Diverse Community Engagement Program (CEP), (Part of Appendix A), with commitment to optimizing outcomes and vigorously achieving aspirational goals.

The Reynolds School District seeks a CM/GC who can best provide the services needed to achieve the above goals.

The services requested of the CM/GC shall be provided in two phases:

1 Preconstruction Services: Consultation with the School District and its design team during the planning and design of the project.
2 Construction Services: All final bidding, management and completion of the

construction work within the negotiated GMP (guaranteed maximum price) and project schedule.

1.2 Project Description

The preliminary project work scope, primary work elements, schematic drawings are described in Appendix A.

1.3 Project Organization

The School District has retained DAY CPM SERVICES LLC to provide Project Management oversight services on behalf of the Owner. An RFP solicitation to choose the most suited Design firms for the project 2015 Bond Projects has been completed. The District decided to award contracts for the for the design services to BLRB for the three elementary Schools, Wilkes, Troutdale, and Fairview along with the Secure Vestibules District wide to BLRB Architects. They decided to award the contract for design services to DOWA – BIB for the Reynolds High School Renovation and Additions.

1.4 Construction Budget

The School District has budgeted $22.9 million for the total construction budget of the replacement of Troutdale Elementary School. The construction budget includes, but it not limited to; building costs, on-site, off-site improvements, required solar applications of 1 ½%, any escalation, and a construction contingency. This will be the basis of the Guaranteed Maximum Price, GMP. All savings to the GMP will revert back to the District.

1.5 Construction Schedule

For purposes of funding the project to its maximum potential, at the time of this Request of Proposals, it is the goal of the District that all, (or at least 85%) of the projects be substantially complete prior to the beginning of the fall term of 2018. It will be important for any firm proposing to understand this schedule should be attainable, and that it is very important for the District taking full advantage of funding available.

The Draft Master Schedule, Appendix D, shows the sequencing of each of the projects of the 2015 Bond, and although concentrates mainly on these activities necessary prior to the execution of the Phase II Services it does provide the basic activities and required sequences for the Phase II Services. It should be understood that Early Work Amendments, (EWAs), and the amount of EWAs will be determined by the CM/GC and the team and added as necessary. However, the sequence of the start of the Phase II Services will not be altered unless determined to be in the best interest of the District, and will not compromise the due diligence of the CM/GC during the Phase I Services.

The activities are similar for the design and preconstruction phase for each of the 2015 Bond Projects. The Project Schedule for Troutdale Replacement Elementary School is shown on page 6.

1.6 Mandatory Pre-Proposal briefing and Site Tour

A MANDATORY pre-proposal meeting will be held to answer questions from prospective proposers on ***August 4, 2016 at 10:00 AM*** prevailing local time at the **Fairview Community Center at 300 Harrison Street, Fairview, Oregon 97024**. The meeting will allow proposers the opportunity to gain information about the construction sites and a better understanding of the work, and the unique aspects of the project.

2. PROPOSAL PROCESS

2.1 General

2.1.1. Evaluation of Proposals

Proposals will be evaluated by an evaluation committee comprised of School District representatives, Owner representative DAY CPM SERVICES, members of the design team, and technically-oriented members-at-large. The evaluation will be in accordance with Section 5, Evaluation of Proposals, and may include requests by the team for additional information and interviews to determine and clarify the experience and responsibility of the proposer. The evaluation team will make a recommendation to the Reynolds School Board, who will make the final decision to select the CM/GC.

2.1.2 Obligation to Award

The issuance of this RFP, and the receipt and evaluation of proposals does not obligate the School District to award a contract. The School District will not pay any costs incurred in responding to this RFP. The School District may cancel this procurement without liability at any time prior to the School District's execution of a contract.

2.1.3 Commencement of Work

The successful proposer may commence work only after the School District delivers a fully executed preconstruction contract to that proposer.

2.1.4 Questions

Questions pertaining to this RFP shall be presented in writing via email to:

Bob Collins, Senior Project Manager
DAY CPM SERVICES (Owner Representative)
12745 SW Beaverdam Rd. Ste. #120
Beaverton, OR 97005
Email: rcollins@daycpm.com

Questions must be received in electronic format not later than 2:00 PM, August 5, 2016. Questions will be compiled and collectively addressed in writing prior to the deadline for receipt of proposals.

2.2 Pre-Proposal Interpretation of Contract Documents

2.2.1 Changes to RFP

2.2.1.1 The School District reserves the right to make changes to the RFP. Changes will be made by written addendum which will be issued to all prospective proposers on the School District's list of RFP holders who attended the mandatory pre-proposal meeting.

2.2.1.2 Prospective proposers may request or suggest any change to the RFP by submitting a written request. The request shall specify the provision of the RFP in question and contain an explanation for the requested change. The request must be submitted at least seven (7) calendar days prior to the date set for receipt of proposals.

2.2.1.3 The evaluation team will evaluate all requests submitted but will not be obligated to accept the requested change.

2.2.2 Amend or Withdraw Proposal

A proposer may amend or withdraw its proposal any time prior to the time and date established for submission of proposals.

2.3 Public Disclosure of Proposals

2.3.1 Any information provided to the School District pursuant to this RFP is subject to public disclosure pursuant to Oregon's public records laws (ORS 192.410 to 192.505).

2.3.2 The general requirement for public disclosure is subject to a number of exemptions. Each page containing information deemed by the proposer as necessary to remain exempt from public disclosure after proposals have been evaluated (e.g., pages containing trade secret, economic development information, etc.) should be plainly marked. Marked pages should be placed in a group separate from the remainder of the proposal.

2.3.3 The fact that a proposer marks and segregates certain information as exempt from disclosure does not mean that the information is necessarily exempt. The School District will make an independent determination regarding exemptions applicable to information that has been properly marked and segregated. Information that has not been properly marked and segregated may be disclosed in response to a public records request. When exempt information is mixed with nonexempt information, the nonexempt information must be disclosed. The School District will redact pages that include both exempt and nonexempt information to allow disclosure of the nonexempt information.

2.3.4 Unless expressly provided otherwise in this RFP or in a separate communication, the School District does not agree to withhold from public disclosure any information submitted in confidence by a proposer unless the information is otherwise exempt under Oregon law. The School District considers proposals submitted in response to this RFP to be submitted in confidence only until the School District's evaluation is complete, and agrees not to disclose proposals until the School District has completed its

evaluation of all proposals and publicly announced the results.

2.4 Submission of Proposals

2.4.1 Requirements

Each proposer's submission in response to this RFP must:

2.4.1.1 Include one original (marked as such), 7 copies and one PDF copy on a USB flash drive;

2.4.1.2 Include the completed and executed Proposal form (Section 4 of this RFP) as the first page of the original submission and each copy;

2.4.1.3 Be submitted in a sealed envelope that is plainly marked "Proposal to Provide CM/GC Services – Reynolds School District: The New Troutdale Replacement Elementary School" and bears the proposer's name, address, telephone number, and email address; and

2.4.1.4 Be delivered to the following addressee by **2:00 PM August 19, 2016**:

Reynolds School District
RE: RFP – Construction Manager/General Contractor Services
The New Troutdale Replacement Elementary School
1204 NE 201st Avenue
Fairview, OR 97024

The School District, at its option, may decline to consider late submissions.

2.5 Schedule: Refer to Appendix D for information related to the Master Schedule for the project

2.5.1 Milestones

Projected significant milestones for this procurement are as follows:

RFP issue date	July 19, 2016
Mandatory pre-proposal meeting at 10:00 AM	August 4, 2016
Deadline for proposer questions	August 5, 2016
RFP Addenda issuance	August 9, 2016
Proposals due at 2:00 PM	August 19, 2016
Shortlisted firms identified	August 26, 2016
Proposer interviews	August 30, 2016
Notice of Intent to Award	August 31, 2016
Protest Period Ends	September 7, 2016
Board approval of Selection	September 14, 2016
Beginning of services	September 15, 2016

2.5.2 Period of Irrevocability

Proposals shall be offers that are irrevocable for a period of sixty (60) calendar days after the time and date proposals are due. Proposals shall contain the name, address and telephone number of an individual or individuals with authority to bind the company during the period in which the proposal will be evaluated.

2.6 Objections or Protests

2.6.1 Process

A proposer or prospective proposer who wishes to object or protest any aspect of this procurement shall comply with requirements of Oregon Administrative Rule: OAR 137-049-0260 and must deliver a written protest to:

Reynolds School District
RE: RFP – Construction Manager/General Contractor Services
The New Troutdale Replacement Elementary School
1204 NE 201st Avenue
Fairview, OR 97024

A protest is delivered when it is actually received by the aforementioned addressee.

A protest shall be deemed to include only the documents timely delivered pursuant to this paragraph. It must clearly state all of the grounds for the protest and must include all arguments and evidence in support of the protest. Testimonial evidence may be submitted by affidavit. The School District may investigate as it deems appropriate in reviewing the protest and will issue a written response to the protest. The School District may proceed with contract award, execution, and performance while a protest is pending.

The time period during which the contracting agency will meet with proposers that the contracting agency did not select for the public improvement contract, if a proposer requests a meeting to discuss the procurement.

2.6.2 Timeliness

2.6.2.1 If the protest relates to matters that are apparent on the face of the solicitation documents or that are otherwise known or should have been known to the protester, the protest must be delivered no later than (10) calendar days prior to the deadline for the School District's receipt of proposals.

2.6.2.2 If the protest relates to other matters, including but not limited to the award of the contract, it must be delivered as soon as possible, and in no event later than seven (7) calendar days, after the protester knows or reasonably should have known of the award of the contract, the School District's intent to award the contract, or other matters to which the protest is addressed.

2.6.2.3 The School District may decline to review a late protest.

2.7 General Services Overview CM/GC SCOPE OF CM/GC SERVICES

The Reynolds School District is seeking a CM/GC firm to participate in schematic design, design development and construction document development phases as a member of a team with the Program & Project Manager-PM (DAY CPM Services), Architect and Engineering team, and other Project consultants, and agencies to provide preconstruction services and to manage and coordinate the subcontractor bidding procurement and the construction process.

During preconstruction, the CM/GC shall actively participate as a member of the Project team with the Owner and the Architect during the Schematic Design, Design Development and Construction Documents Phases prior to construction. The CM/GC shall be responsible for providing necessary consulting expertise to the Owner to ensure that the program scope is maximized and the construction budget and the Project schedule are met.

The CM/GC will work collaboratively and proactively with the Owner and Architect to proceed with planning, design and development of the work in a manner which supports the Owner's efforts to keep costs within the Owner's budget. The CM/GC shall provide Construction Management (CM) services throughout the Project, from the preconstruction period through construction and shall closely coordinate such work with the Owner, PM and Architect. The CM/GC's CM services shall include but not be limited to:

1) Assistance in identifying safe work practices and requirements for construction;
2) Assessing and recommending site logistics requirements;
3) Recommending phasing, sequencing of work and construction scheduling;
4) Providing cost-estimating including GMP development and subcontractor procurement
5) Determining and reconciling constructability issues and performing formal constructability analysis reviews of the design documents prior to subcontract bidding;
6) Assessing alternative construction options for cost savings;
7) Identifying products for Value Engineering (VE) and engineering systems for life cycle cost, design considerations and recommending all work necessary to support their implementation and;
8) Participating in Owner's Schematic Design, Design Development and Construction Documents Phases coordination reviews.
9) Critical Path scheduling and site logistics planning,
10) Permit procurement assistance and agency coordination
11) Identifying opportunities for supporting district Local and Diverse Community Engagement Program (CEP).

The CM/GC shall provide full general contracting services for construction of the Project in accordance with the requirements of the Contract Documents and except to the extent work is specifically indicated in the Contract Documents to be the responsibility of others.

The CM/GC firm must be skilled in all aspects typical to a general contractor and construction manager, including, but not limited to developing Critical Path Method (CPM) schedules, preparing construction estimates, performing value engineering and life-cycle cost studies, analyzing alternative designs, studying labor conditions, understanding construction methods and techniques, understanding local climate conditions and requirements for weather

protection during construction, performing constructability reviews, sequencing of work, and coordinating and communicating the activities of the team throughout the design and construction phases to all members of the Project delivery team.

In addition, the CM/GC must be familiar with the local labor and diverse subcontracting market and be capable of working with subcontractors to generate tangible outcomes supporting district Local and Diverse Community Engagement Program (CEP) and viable pricing alternatives.

The CM/GC firm will coordinate and manage the construction process as a collaborative member of a team with the Owner, PM, A/E, and other Project consultants and governmental agencies. The CM/GC must also be familiar with sustainable construction techniques, LEED certification requirements and processes and employ those techniques and processes throughout the term of the Project.

2.7.1 Preconstruction Services

Preconstruction services will be provided generally under the terms contained in this RFP solicitation process, and paid for on a cost reimbursement basis. In general, services are anticipated to include a requirement that the CM/GC:

A. Provide a full description of items that make up the proposed GMP. A complete copy of the GMP estimates in a format approved by Owner, including all details, must be provided to the Owner. The CM/GC will cooperate with other Owner designated Consultants, and advise, assist, and provide recommendations to the Owner and design team on all aspects of the planning and design of the work.

B. Provide timely and accurate information, estimates, schemes, and participate in decisions regarding construction materials, methods, systems, phasing, and costs to assist in determinations which are aimed at providing the highest quality building within the budget and schedule.

C. Work with the Owner in identifying critical elements of the Work that may require special procurement processes, such as prequalification of bidders or qualifications- based selection.

D. Actively participate in formal Value Engineering studies anticipated to be held at the end of schematic design and design development. Actively participate in ongoing value engineering and constructability reviews to ensure the project budget and design standards are maintained.

E. Review in-progress design documents and provide timely input and advice on construction feasibility, and alternative materials, and availability. Provide formal and informal Constructability Reviews (CR) of the Contract Documents as part of the design development QA/QC process. Provide final CR review of 80% CD design documents and suggest modifications to improve completeness of the documents prior to establishing the final GMP

F. Provide input to the Owner and the design team regarding current construction

market bidding climate, status of key subcontract markets, and other local economic and weather related conditions. Recommend division of work to facilitate bidding and award of trade contracts, considering such factors as bidding climate, weather, over- water time restrictions for deep water auger piling systems, improving or accelerating construction completion milestones, minimizing trade jurisdictional disputes, and related issues. Advise the Owner on subcontracting opportunities for local and minority/women/ESB firms.

G. Continuously monitor and update the Project schedule and recommend adjustments in the design documents of construction bid packaging to ensure completion of the Project in the most expeditious manner possible. Time is of the essence on this project with critical milestones for relocation of the school district's existing facilities.

H. Prepare construction cost estimates for the Project at appropriate times throughout the design phases of the work. Notify the Owner and design team immediately if their construction cost estimates appear to be exceeding the construction budget or the GMP.

I. Work with the Owner and design team to maximize energy efficiency in the Project. Provide estimating and value engineering support to the Owner's analysis and application for energy related incentive programs offered by local utilities.

J. Furnish a Guaranteed Maximum Price (GMP) in accordance with the CM/GC Agreement for the Owner's review and approval. It is also possible that a partial Early Work Amendment will be authorized to cover construction work in advance of the GMP.

K. In the event that the selected CM/GC is unable to furnish a GMP within the Owner's budget, or otherwise come to agreement on CM/GC Contract terms, the Owner retains the sole option to cancel this procurement and start a new process for the construction of the Project, or to terminate the existing CM/GC Contract or contract award and enter into new CM/CG Contract negotiations with the next highest rated Proposer under this procurement.

L. CM/GC will be required to comply and prepare agreeable responses to the following before a GMP is agreed upon: By the earlier of the date on which a contracting agency and a construction manager/general contractor agree on a fixed price, guaranteed maximum price or other maximum price or the date on which the construction manager/general contractor begins to solicit offers for construction services from subcontractors, the public improvement contract that the contracting agency negotiates with the construction manager/general contractor must:

    (a) Describe the methods the construction manager/general contractor will use to qualify and select subcontractors. The methods must be competitive and should provide prospective subcontractors with a reasonable opportunity to participate in the construction manager/general contractor's qualification and selection process.

(b) Identify the portions of the construction work under the public improvement contract for which the construction manager/general contractor may waive the qualification and selection process described in paragraph (a) of this subsection and describe:

1. How the construction manager/general contractor may determine the portions of the construction work that will not be subject to the qualification and selection process described in paragraph (a) of this subsection; and
2. The process the construction manager/general contractor will use to qualify and select prospective subcontractors for the portions of the construction work that are not subject to the qualification and selection process described in paragraph (a) of this subsection.

(c) Identify the conditions under which the construction manager/general contractor or an affiliate or subsidiary of the construction manager/general contractor may perform or compete with other prospective subcontractors to perform construction work under the public improvement contract and describe the methods the construction manager/general contractor will use to qualify and select an affiliate or subsidiary to perform the construction work.

(d) Describe how the construction manager/general contractor will announce which prospective subcontractors the construction manager/general contractor has selected to perform construction services in connection with the public improvement contract.

(e) Describe the conditions under which the construction manager/general contractor will discuss the qualification and selection process described in this subsection with a prospective subcontractor that the construction manager/general contractor did not select for a subcontract if the construction manager/general contractor receives a request from the prospective subcontractor to discuss the process.

M. As used in this section, "savings" means a positive difference between a fixed price, a guaranteed maximum price or other maximum price set forth in a public improvement contract and the actual cost of the work, including costs for which a contracting agency reimburses a construction manager/general contractor and fees or profits the construction manager/general contractor earns. [2013 c.522 §3]

N. The District will not pay any amount that exceeds a fixed price, guaranteed maximum price or other maximum price specified in the public improvement contract unless the amount results from material changes to the scope of work set forth in the public improvement contract and the parties to the public improvement contract agree in writing to the material changes.

2.7.2 Construction Phase Services

After the agreement to an acceptable Guaranteed Maximum Price, (GMP), by the District, and the execution of an Amendment to CM/GC Contract the CM/GC will bid the remaining

components of the projects after any Early Work Amendments that have taken place. With the bid results the CM/GC will provide a complete reconciliation of the bid received to the GMP, and provide all information to the District for review and acceptance.

During the Construction Phase Services, the CM/GC shall provide and pay for all materials, tools, equipment, labor, and professional and non-professional services, and shall perform all other acts and supply all other things necessary to fully and properly perform and complete the Work, as required by the Contract Documents. Construction related activities of the CM/GC during this phase will include schedule refinement, phasing and site logistics, advance materials procurement, advance construction (if approved via an Early Work Amendment), development of bid packages, subcontractor bidding, quality control of the work in progress, and overall construction management. The CM/GC will also be responsible for ongoing management of the construction budget and monthly, or as requested by Owner, reporting of budget and work in progress status.

2.7.3 Special Requirements

In order to implement the CM/GC method of construction with a GMP, the Reynolds School District will impose some special requirements to ensure an adequate level of competition. Proposers shall note the following requirements concerning management of this GMP Project:

A. A full description of items that make up the proposed GMP is required from the CM/GC. A complete copy of the GMP estimates in a format approved by Owner, including all details, must be provided to the Owner. The CM/GC will cooperate with other Owner designated cost estimators to reconcile GMP estimates to Owner-approved limits.

B. The CM/GC shall comply with Oregon Administrative Rules ("OAR") 137-046-0200 and 137-046-0210 in all respects for the solicitation of Minority, Women and Emerging Small Business Enterprises. Compliance shall include pass-through requirements for subcontractor demonstrations of good faith efforts for all subcontract Offer packages, for which set goals shall not be utilized.

C. The Contract awarded through this process will require the CM/GC to use an open competitive selection process for subcontracted components of the Project. The processes used to award subcontracts by the CM/GC will be monitored by the Owner. The CM/GC shall solicit bids or quotes from subcontractors unless otherwise authorized by the Owner in writing. Owner will review all bids at its discretion, and reserves the right of prior written approval of any bids when fewer than three (3) bids are received in response to any solicitation.

D. By listing individuals in the Proposal, the firm affirms that these individuals will be available to work on the Project at the approximate percentages shown in the Proposal. The Owner reserves the right to approve or reject any changes to the proposed personnel. Owner further reserves the right to request a substitution of personnel if deemed to be in the best interest of the Owner.

E. All Proposers must be registered with the Oregon Construction Contractors Board prior to submitting Proposals. Failure to register will be sufficient cause to reject Proposals as non-responsive.

F. For this Project, the provisions of ORS 279C.800 to 279C.870, relative to prevailing wage rates, will apply. The CM/GC and all subcontractors shall comply with BOLI requirements. The actual prevailing wage rates applicable to this Project will be identified at the time the initial set of construction specifications are made available and are incorporated into the first Early Work Amendment, or, if no Early Work Amendment occurs, then at the time of the GMP Amendment. Those rates will then apply throughout the Project.

G. CM/GC firm may be asked to utilize web based tools for managing costs and other contractual duties via smartsheet.com and bluebeam. Logs will be used for controlling and managing changes to construction, GMP contingency management and closeout requirements utilizing cloud based logs.

H. In an effort to promote community engagement with local MWESB subcontractors and other stakeholders, the CM/GC will be expected to develop a strategy supporting district Local and Diverse Community Engagement Program (CEP) including consideration of target firms, Student / Career Technical Education (CTE), Workforce, Faculty/Staff, Social Responsibility & Sustainability, Mentor-Protégé and Partnerships to optimize benefit of project work for community

I. CM/GC firm will provide all required Subcontracting as described in Article 11 of CM/GC Construction Agreement, Appendix B, for all the demolition and hazardous material remediation work for this project, and provide all the coordination and scheduling necessary.

J. CM/GC shall participate in conduct Pull Planning exercises during Preconstruction Phase with the District and the Design Team, and during the Construction Phase with the District, the Design Team, and Subcontractors of this project as defined, “the responsible team for delivering a project milestone plans together how that will happen. The planning conversation produces a plan for deliverables at each hand-off, a schedule for that hand-off and prepares the team for action together as the future unfolds. The plan is developed as a series of requests starting from the milestone and working back – the pull. This designs the network of commitments necessary to deliver the phase and establishes when the work should happen.

K. The Reynolds School District has hired ARC Document Solutions to provide document and information management services for all Reynolds School District Bond construction project. ARC Document Solutions will maintain one source of truth and all changes to the project will be updated expeditiously using project dashboards for each project.

Hyperlinking Services Include:

- Index listing to corresponding plans
- Callouts to corresponding plans and details (zoom-in optional)

- Text references linked to corresponding plans (zoom-in optional)
- Navigation Buttons/Panel with Arrows that link to Previous/Next plan in sequence
- Discrepancy Log - Logs missing documents and details to avoid costly issues
- Linking Schedules (Door, Window, Wall, etc.) to corresponding key items
- Project Dashboards for each Project
- Link Highlights on Callouts and Text References
- Revised Plans - Digital slip-sheeting to maintain a *most-current* set of documents
- Historical Set Buttons – Instant access to previous and current versions
- Document posting and linking of RFIs, ASIs, submittals and more
- RFI Clouding and Markups
- Floor Levels - Arrow buttons that link you up and down to corresponding levels
- Customized Linking (TBD)
- Skysite Hosting Platform – ARC Document Solutions will host all projects in Skysite (secure cloud-based project management application) and streamline team collaboration (www.skysite.com)

Reynolds School District, Day CPM, Architects and the CM/GC for each Bond Project will supply all update information directly to ARC Document Solutions by adding ARC Document Solutions to all project information distribution lists.

Because of hyperlinking available through ARC for all the project document control, the costs associates with item B.11 of the Cost of General Conditions Work Matrix, Exhibit C, of the form Contract should be limited. Production printing of the projects Plans and Specifications at various design phases will be through the hyperlink services provided by ARC, and ARC will be providing all limited hard copies that will be necessary. This will be a direct cost to the Project through the School District.

L. **SECURITY VERIFICATION "SECURITY AND BACKGROUND CHECK REQUIREMENTS"**
All Reynolds School District sites will be considered an open site for the purposes of this project. This means that a fingerprint based criminal history verification will be conducted on all personnel employed by the successful CM/GC and subcontractors on the project. This means that unsupervised contact between project personnel and students may occur. "Unsupervised contact" with students means contact that provides the person opportunity and probability for personal communication or touch with students when not under direct District supervision. As required by ORS 326.603, CM/GC shall ensure that CM/GC, any subcontractors, and their officers, employees, and agents will have no direct, unsupervised contact with students while on District property. Consultant shall work with District to ensure compliance with this requirement.

Successful CM/GC, (contractor), authorizes District to obtain information about personnel and subcontractor's and its history and to conduct a criminal background check, including analysis of fingerprints of any CM/GC's or subcontractor's officers, employees, or agents. CM/GC shall cause its employees and/or subcontractors, to

authorize District to conduct these background checks. CM/GC shall pay $59.00 for processing the background check in addition to required fingerprinting and notary services. CM/GC and its subcontractors must supply fingerprint cards for each employee proposed to work on the project to the District when applying for the security check. District may deduct the cost of such fees from a progress or final payment to CM/GC under their Contract, unless CM/GC elects to pay such fees directly at the time of application for the security check.

All contractors, subcontractors, and their employees whether full time or part time working at District sites must undergo a criminal history verification for disqualifying convictions per ORS 342.143 as mentioned criminal history verification checks will be conducted at the contractor's expense, by RSD. Prior to entry of a CM/GC's or subcontractor's employees onto a jobsite, the CM/GC and the subcontractor shall provide a list of its employees who have successfully undergone the criminal history verification check. Upon Contract execution, the CM/GC will supply a list of projected CM/GC personnel as well as subcontractor personnel during the Construction Phase. These people will be expected to attend a meeting as a group to complete paperwork and undergo mobile fingerprinting services. They will then receive a temporary badge until final approval and issuance of final badge. This District in an effort to expedite the review process will engage a third party company to do a preliminary background checks, while the background and fingerprinting verification is being process through the State of Oregon Department of Education. The cost of this additional background check is $6.50 per person. There will be a short form to be filled out by the prospective contractor employee with personal identification information checked by District representative on site. The CM/GC will issue a check that the covers the cost for groups of workers. Once the background check comes back without any issue the employee will then receive a temporary badge. This process should be expected to take between 24 – 48 hours. With the final approval there will be the issuance of final badge. All badges will be expected to be turned into the District by any of the badge owners at the conclusion of their participation on the Project.

Refer to the Reynolds School District Background & Security Verification Process flow chart in ***APPENDIX A*** PROJECT DESCRIPTION & INFORMATION.

3. PROPOSAL

3.1 Preparation

Proposals shall be prepared simply and economically, providing a straightforward format.

3.2 Format

Proposals shall conform to the following format:

The School District will not be liable for any expense incurred in the preparation of proposals. Proposers are encouraged to use creativity and to provide complete information in their written proposals.
However, except as provided otherwise below, a proposal response to section 3.2.2 shall be in a font size no smaller than 10 points and shall not exceed 30 single-sided pages or 15 double-

sided pages, including pictures or diagrams. Resumes required by section 3.2.2.2, section dividers and proposal form are excluded from the page limit. If a proposer exceeds the page limit in responding to section 3.2.2, the School District will consider the information on the first 30 pages, and may decline to consider information beyond the 30th page.

3.2.1 Proposal Form

The proposal form is included as Section 4 of this RFP. It shall be completed, executed and included as the first page of the proposal.

3.2.2 Required Submissions

Proposals shall contain the following information, provided in the order listed below. Concise and direct responses are encouraged.

3.2.2.1 Management of the Work

In detail, describe the overall plan to manage the project, including the following as a minimum:

a. Describe your proposed **Preconstruction Services Plan** that defines each preconstruction service you intend to provide including but not limited to:

1. Investigation of existing conditions to ensure construction documents reflect the actual site conditions;
2. Design and Construction Document coordination review and comments verifying their implementation. Describe your firm's approach when working as a project team member during design.
3. Design and target cost validation, budgeting; cost estimating and tracking and reconciliation with second parties. How do you manage price volatility and market conditions when providing cost estimates during the design phase without being unreasonably conservative;
4. Constructability issues including assistance identifying safe work practices and requirements for construction;
5. Value Engineering and alternative construction options, products and engineering systems for cost savings and life cycle cost design considerations;
6. Schedule, change recommendations and advice of long-lead procurement packages;
7. Recommended phasing and sequencing of work to maximize construction site efficiencies;
8. Assessment and recommended site logistics requirements;
9. Subcontract Plan preparation and procurement planning including strategy for use of local and MWESB firms.
10. Cost estimating methodology, and systems utilized to adhere to requirements for detailed accounting & tracking of costs in accordance with the project budget.

Address the person(s) responsible for each service, a description of the deliverable(s) that will be provided to the Owner and design team upon completion of each service and the action you intend to take or intend for the design team to take based on the information contained in each deliverable.

Briefly identify two or more examples of projects that demonstrate the range of Preconstruction Services your firm has provided on previous public or private sector CM/GC projects or private sector projects with a guaranteed maximum price (GMP).concise description of the proposer's ability to satisfy the requirements of this RFP.

b. To clearly show an understanding of the scope and complexity of the work, identify key issues and/or potential constraints and risks anticipated for the project, including areas of design, construction, and management. Describe the plan for addressing these issues and maintaining the progress of the work.

c. Describe the work sequencing and phasing process that will be employed to ensure that existing adjacent operations for both marine and upland facilities are maintained throughout construction operations. With the understanding that a team effort by the School District, the design team, and the selected proposer will be required to develop an approach to the design and construction sequencing and phasing; include a discussion of the process employed by your firm to develop sequencing, phasing and a site logistics plans, that minimize disruptions to existing adjacent facilities and existing wetlands.

d. Describe your firm's approach toward managing fast track projects with critical timelines which have completion dates that cannot be moved.

e. Describe the plan to establish and maintain good relationships and foster open and productive communications with the School District, DAY CPM, the design team, and the public, including communication of current and upcoming construction activities while supporting district Local and Diverse Community Engagement Program (CEP) and promoting community partnerships.

3.2.2.2 Proposed Personnel and Organization

a. Provide a project organization chart showing the proposed key staff for this project in the following areas (at a minimum):

- Company executive with responsibility for the project and the authority to bind the company
- Project management
- Construction management and supervision
- Estimating

- Safety
- Quality control

Describe the duties and responsibilities for all key staff positions.

b. Indicate the approximate percentage of each week that each person shown on the organization chart is anticipated to be working on the project and their primary work location during the design and construction phases of the work

c. Include resumes for all key individuals shown on the chart. Resumes shall include education, work history, length of tenure with the proposing company, and specific project experience in the role proposed for this project. Each project experience example shall include the title, description, construction cost, dates and durations for the project and the name, company name, position title, and telephone number for the client representative that was responsible for the project.

d. Provide an organizational chart of the company. Include all wholly owned subsidiary companies and define their relationship in providing personnel or equipment for the project.

3.2.2.3 Cost Management

a. Describe how the proposer will approach cost estimating and value engineering.

b. Describe the plan for managing and tracking the cost for the work. Include descriptions of cost tracking tools and summary reports.

c. Describe the approach for establishing and maintaining a contingency fund to ensure that the project budget is not exceeded.

d. Describe the proposed method of documenting the line item components of the Guaranteed Maximum Price (GMP) and the method of determining whether project changes are inside or outside the scope of the GMP.

e. Describe past performance on other CM/GC contracts within the past seven (7) years. For each project, list the project name, client name, completion date, contract GMP, dollar amount of change orders, and client contact person including phone number.

3.2.2.4 Schedule, Quality Control, and Safety

a. Describe approach to managing the construction schedule. Include a description of the elements of this project that are likely to put the schedule at risk and how they would be proactively managed. Include descriptions of schedule tracking tools and summary reports.

b. Describe expectations for labor and materials availability on this project. Describe how anticipated challenges with availability of labor or materials could be mitigated. Explain the plan to generate sufficient subcontractor and/or material supplier competition in the bidding to minimize project costs.

c. Discuss opportunities and challenges that you see to complete the project in as efficient of manner as possible. Describe how the opportunities will benefit the county and describe how the foreseeable challenges will be addressed by your firm.

d. Describe your firms proposed quality control plan and how it will be implemented.

e. Describe your firms proposed general safety program, including training, hazard identification, and audit/inspection. Include specific information on subcontractor and employee accountability for safety, formal disciplinary program, and Company EMR (Experience Modification Rating) safety record for the last three years.

3.2.2.5 Local Conditions/MWESBE Utilization and Community Partnership

a. Describe your firm's knowledge and experience with the labor market and building conditions in the Clackamas County and City of Fairview Metro area.

b. Demonstration of experience with local MWESB firms including a list of State of Oregon certified businesses that your firm has partnered or subcontracted within the last two (2) years, identify any MWESB firms that are part of your proposed team, and any innovative/successful measures your firm has undertaken to increase diverse business participation on projects in the Portland Metro area. Describe your approach to subcontractor and supplier procurement/selection process, and promoting participation in the project on the part of minorities, women, and emerging small business enterprises. Also describe your approach for local material suppliers, venders, and building trades. A local business is defined as a business that has an existing significant place of business located within the electoral and taxing boundaries of the Reynolds School District.

c. Describe your firm's approach to optimizing project spends for continual progress toward district Local and Diverse Community Engagement Program (CEP) goals including consideration of Student / Career Technical Education (CTE), Workforce, Faculty/Staff, Social Responsibility & Sustainability, Mentor-Protégé and Partnerships for community.

3.2.2.6 Contract Formats

a. The sample draft contract and general conditions to the contract presented in Appendices B and C will be the basis of the agreements for services provided by the selected proposer on the project. During contract negotiations following selection of the highest ranked Proposer, Agency will entertain suggestions on refinement of the CM/GC Agreement and its Exhibits only when:

   1. The general work scope remains the same; and

   2. The field of competition does not change as a result of material changes to the requirements stated in the RFP.

   The intent of these provisions is to avoid any unfair competitive advantage or disadvantage in the procurement process. Alternative approaches to structuring the GMP may be contemplated and allowable under these negotiations. The Agency intends to complete negotiations and enter into a contract within ten (10) days of the Notice of Intent to Award issuance, in accordance with OAR 125-249-0450, the right to extend that time at its sole discretion. An amendment to the initial CM/GC Agreement will be issued at the end of the end of Phase I and at the start of Phase II to execute the GMP agreement.

b. The sample negotiated construction agreement included in Appendix B will be used as the contract between the School District and selected proposer.

c. The sample general conditions to the contract included in Appendix C will be used as the general conditions between the School District and selected proposer.

d. In addition to the sample draft contract and conditions, it is further understood that any contract between the parties must meet the checklist requirements of OAR 137-049-200(1)(c) and all those items are hereby incorporated herein. This means that the eventual contract for the project must meet the following statutory requirements:

   (A) Prompt payment to all Persons supplying labor or material; contributions to Industrial Accident Fund; liens and withholding taxes (ORS 279C.505(1));

   (B) Demonstrate that an employee drug testing program is in place (ORS 279C.505(2));

   (C) If the Contract calls for demolition Work described in ORS 279C.510(1), a condition requiring the Contractor to salvage or recycle construction and demolition debris, if feasible and cost-effective;

   (D) If the Contract calls for lawn or landscape maintenance, a condition

requiring the Contractor to compost or mulch yard waste material at an approved site, if feasible and cost effective (ORS 279C.510(2);

(E) Payment of claims by public officers (ORS 279C.515(1));

(F) Contractor and first-tier subcontractor liability for late payment on Public Improvement Contracts pursuant to ORS 279C.515(2), including the rate of interest;

(G) Person's right to file a complaint with the Construction Contractors Board for all Contracts related to a Public Improvement Contract (ORS 279C.515(3));

(H) Hours of labor in compliance with ORS 279C.520;

(I) Environmental and natural resources regulations (ORS 279C.525);

(J) Payment for medical care and attention to employees (ORS 279C.530(1));

(K) A Contract provision substantially as follows: "All employers, including Contractor, that employ subject workers who work under this Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its subcontractors complies with these requirements." (ORS 279C.530(2));

(L) Maximum hours, holidays and overtime (ORS 279C.540);

(M) Time limitation on claims for overtime (ORS 279C.545);

(N) Prevailing wage rates (ORS 279C.800 to 279C.870);

(O) BOLI Public Works bond (ORS 279C.830(2));

(P) Retainage (ORS 279C.550 to 279C.570);

(Q) Prompt payment policy, progress payments, rate of interest (ORS279C.570);

(R) Contractor's relations with subcontractors (ORS 279C.580);

(S) Notice of claim (ORS 279C.605);

(T) Contractor's certification of compliance with the Oregon tax laws in accordance with ORS 305.385; and

(U) Contractor's certification that all subcontractors performing Work described in ORS 701.005(2) (i.e., construction Work) will be registered

with the Construction Contractors Board or licensed by the State Landscape Contractors Board in accordance with ORS 701.035 to 701.055 before the subcontractors commence Work under the Contract.

(V) Pursuant to ORS 279C.830(2), a provision stating that the Contractor and every subcontractor must have a Public Works bond filed with the Construction Contractors Board before starting Work on the project, unless otherwise exempt. This bond is in addition to performance bond and payment bond requirements. See BOLI rule at OAR 839-025-0015.

3.2.2.7 Deviations from the RFP

Identify specifically where and how the proposal deviates from the requirements of this RFP.

3.2.3 Fee Proposal (Reference Appendix E "General Conditions Matrix")

3.2.3.1 Present a proposed fee for providing the CM/GC services in two parts:

a. Preconstruction Services: Identify an estimated total cost and proposed hourly billing rates for services to be provided during the design phase of the project, prior to establishment of the negotiated Guaranteed Maximum Price (GMP). Identify activities, labor hours associated with each activity, proposed billing rates per hour for each person/position, and an estimate of expenses. This estimated cost will be the basis of negotiation of a not-to-exceed price for the preconstruction services contract with the School District. This price will be the maximum amount due the CM/GC if the CM/GC's services are terminated or the project does not proceed to construction for any reason, and if all of the services had been provided prior to cancellation. Refer to the Draft Master Schedule in Appendix D for the approximate duration of these services.

b. Construction Services:

Fixed Fee: Identify the fixed fee, as a percentage of the Guaranteed Maximum Price (GMP) for which the proposer's firm would contract to perform the required services. Identify what costs the proposer will include in the fixed fee. Identify all proposed project staff that would be included as part of the fixed fee. At a minimum, the Fixed fee shall include: Corporate Overhead and Profit, costs for Performance and Payment bonds, Commercial General Liability/Auto Insurance, Builders Risk insurance, Corporate office administrative expenses and support staff.

General Conditions: Identify and estimate the cost of expenses, other than direct construction labor and material costs, which will be included in the reimbursable cost of work as part of the General Conditions. Refer to

Exhibit C Cost of the General Conditions Work of Appendix B "CM/GC Contract" as a guideline for developing detailed cost breakdown of costs. Provide detailed breakdown estimate of General Conditions.

Self-performed Work: Identify what portions of the work that the proposer anticipates to self-perform and what mark-ups are proposed to apply to the direct costs of this work. CM/GC shall be required to publically announce any work for those items which it intends to bid in the publicly advertised invitation to bid. Sealed bids will be delivered 24 hours before the appointed bid time to Owner, and publically opened by the Owner for any work which the CM/GC intends to provide a bid to self-perform.

4. PROPOSAL FORM

CONSTRUCTION MANAGER/GENERAL CONTRACTOR (CM/GC) SERVICES

REYNOLDS SCHOOL DISTRICT – THE NEW TROUTDALE REPLACEMENT ELEMENTARY SCHOOL

The undersigned proposer submits this proposal in response to the Reynolds School District's Request for Proposals (RFP) dated July 19, 2016, for the contract named above. The proposer warrants that proposer has carefully reviewed the RFP and that this proposal represents proposer's full response to the requirements described in the RFP. The proposer further warrants that if this proposal is accepted, the proposer will contract with the Reynolds School District, agrees to all terms and conditions found in the attached contract, and will provide all necessary labor, materials, equipment, and other means required to complete the work in accordance with the requirements of the RFP and contract documents.

No proposal will be considered unless the proposer is licensed with the State of Oregon Construction Contractors Board, pursuant to ORS 701.055 (1), prior to submitting a proposal. The proposer hereby acknowledges the requirement to carry or indicates the ability to obtain the insurance required by the contract documents. Indicate in the affirmative by initialing here:

The proposer hereby acknowledges receipt of Addendum Nos. , , , to this RFP. Name of

Proposer: Business Address: Telephone Number: Fax Number: Email Address:

_____

_____

_____

Authorized Signature:

Printed/Typed Name:

Title:

Date:

State of Oregon Construction Contractors Board License No:

Note: Complete and execute this form and include as the first page of the proposal.

5. EVALUATION OF PROPOSALS

5.1 General

Proposers for the CM/GC services will be evaluated and rated based on their written proposal and interviews. Submittal requirements for the proposal are detailed in section 3. It is the School District's intent to select a single CM/GC contractor for this solicitation.

5.2 Competitive Range

An evaluation team will determine which proposals are within the competitive range in accordance with the evaluation criteria set forth below. Only those proposals determined within the competitive range will be considered for Interviews and award. Interview of Finalist shall be based on criteria and scoring of sections: 3.2.2.1- 3.2.3.1 as noted below in section 5.4.

5.3 Interviews

The evaluation team will interview a short list of finalist of two or more proposers to assist them with their evaluation and final selection of a CM/GC. Interviewed proposers should be prepared to respond to questions related specifically to their proposals and other pertinent matters regarding the RFP.

Should your firm be invited to interview, questions will be directed to the proposed key Project staff. At a minimum, the corporate executive dedicated to the Project, the project manager, the project superintendent, project field engineer, project estimator, and the key individuals responsible for preconstruction services shall be in attendance.

In addition to presenting qualifications, experience, and the project team's approach to the Project, the interviewees will be expected to respond to questions from the panel regarding the firm's proposal as well as additional questions that might be posed in correspondence directed to the most qualified proposers after this solicitation is closed. The length and format for the interview will be provided to the short listed firms.

5.4 Evaluation Criteria

The School District evaluation team will consider information provided in the written proposal and interviews, according to the following criteria, to rank the proposers in order of suitability to meet the School District's needs. Maximum available points for both written proposals and interviews will be 100 and the maximum points available for each evaluation criteria are listed in parentheses after the criteria.

1 3.2.2.1 Management of Work: (15 points maximum)

2 3.2.2.2 Proposed personal and project organization (20 points maximum)

3 3.2.2.3 Cost management (15 points maximum)

4 3.2.2.4 Schedule, quality control and safety plans (15 points maximum)

5 3.2.2.5 Local Conditions/MWESBE Utilization and Community Engagement (15points maximum)

6 3.2.3.1 Fee Proposal: Preconstruction and Construction services (20 points maximum)

7 Interview of short listed Finalist (70 points)

After evaluation by the team, the team will recommend to the Reynolds School District Commission that the top-ranked proposer be invited to work with the School District and that negotiations progress to finalize the contract. If the School District is unable to successfully negotiate with the top-ranked proposer, the School District reserves the right, at its sole discretion, to terminate negotiations and begin new negotiations with the next highest-ranked proposer.

The School District reserves the right to waive informalities or to reject any and all proposals.

END OF RFP

APPENDIX A
Project Description

- **Schematic Design Note Book by BLRB Architects, dated July 2016**
- **Schematic Design Drawings by BLRB Architects, six sheets total**
- **Preliminary Topographic Survey of Troutdale Elementary School by Chase Jones & Associates dated May 16, 2016**
- **Phase 1 Environmental Site Assessment of Troutdale Elementary School by GeoDesign, Inc. dated April 20, 2016**
- **Report of Geotechnical Engineering Services for Troutdale Elementary School by GeoDesign, Inc. dated May 2, 2016**
- **Pre Demolition Hazardous Building Material Survey Report for Troutdale Elementary School by PBE Engineering + Environmental dated March 2016**
- **Findings of Fact for Exemption from Competitive Bidding and the use of the Construction Manager/General Contractor (CM/GC) Method of Contacting for the Reynolds School District #7 Three New Replacement Elementary Schools – Resolution No. LCRB 2015-2016-002**
- **District Local and Diverse Community Engagement Program (CEP)**
- **Reynolds School District Background & Security Verification Process flow chart**

TROUTDALE ELEMENTARY SCHOOL

Reynolds School District



SCHEMATIC DESIGN NOTEBOOK

JULY 2016

BLRB architects

Troutdale Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

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Troutdale Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Project Team

Project Site

Troutdale Elementary
648 SE Harlow Ave
Troutdale, Oregon 97060
(503) 255-6133
Jill Sorenson, Principal
jsorenson@rsd7.net

Owner

Reynolds School District No. 7
1204 NE 201St Avenue
Fairview, Oregon 97024
Rachel Hopper, Chief Financial and Operations Officer
ph: (503)661-7200 x3406
e: rhopper@rsd7.net

Architect

BLRB Architects
1001 SW 5th Avenue
ph: (503) 535-0707
fx: (503) 220-1815

Richard Higgins, Principal in Charge
e: rhiggins@blrb.com

Melissa Guarin, Project Manager and Project Architect
e: mguarin@blrb.com

Construction Management

DAY CPM Services
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SCHEMATIC DESIGN

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Troutdale Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Civil – Narrative

STORM SYSTEM

Stormwater is expected to be managed by a combination of rain gardens and drywells. Infiltration will be the main method of stormwater management.

The buildings and roofs on the site will be treated with 15' deep drywells. The parking lot on site will be treated with a combination of drywells and rain gardens. The additional parking lot will be treated only with a drywell.

A foundation drain will be provided at all structures and connected to storm system.

DW-1 – Drywell in drive aisle to service yard
DW-2 – Drywell in drive aisle to service yard
DW-3 – Drywell in outdoor learning area east of bus drop off
DW-4 – Drywell south of covered play area
DW-5 – Drywell south of covered play area
DW-6 – Drywell south of covered play area
DW-7 – Drywell on-site parking area
DW-8 – Drywell in additional parking area
RG-1 – In on-site parking area

GRADING / EARTHWORK

Contractor to include costs for clearing and grubbing of all existing pervious areas (lawn, planters, landscaped areas, etc.), as well as the removal of undocumented fill materials and unsuitable soils, per the geotechnical recommendations.

SANITARY SYSTEM

A new 6-inch Sanitary sewer connection to Harlow Avenue is proposed. The size of this sanitary line will be confirmed with the plumbing engineer as design advances.

A grease interceptor will be provided just outside the kitchen and will need to be vented through the building. This will need to be coordinated with plumbing and city requirements.

SS-1 – Sanitary Sewer connection to building
SS-2 – Sanitary Sewer connection to building
GIS-1 – Grease Interceptor for kitchen waste.

DOMESTIC AND FIRE SPRINKLER

A 3-inch domestic water and 6 inch fire sprinkler are assumed service sizes for this building but will need to be confirmed by plumbing. The water meter needs to be located in the Right of Way and the backwater valves for fire sprinkler and domestic water will be located in accessible vaults on the property right at the property line. The fire department connection (FDC) will be located at the fire back flow vault. Irrigation will need to be coordinated with the District and Landscape but will need its own backwater valve located on the site. On-site fire hydrants are likely required near the FDC.

WM – 3-inch water meter.
FS – 6-inch Fire Service vault
BWV – Domestic Back Water Vault

SCHEMATIC DESIGN

Civil – Narrative

GAS SERVICE

Gas service can be provided from Harlow Avenue or 5th Street. The current building is served by a 1-1/4" gas line.

GAS – Gas Service to building from 5th Street.

PUBLIC FRONTAGE

Half street improvements will be needed for Harlow Avenue as follows:

- 60 ft. ROW (to be confirmed with city)
- Cross section:
    - Protect existing travel lane, parking lane and sidewalk east of the centerline
    - One (1) Proposed northbound 10-foot travel lane
    - One (1) Proposed east side 8-foot bus parking lane
    - One (1) Proposed east side 5-foot vegetative strip
    - One (1) Proposed east side 8-foot sidewalk

Green street storm planters will be located along Harlow Avenue

Potential half street improvements will be needed for 5th Street as follows:

- ROW to be verified with city

GS – Green street storm planters be located along Harlow Ave. A public storm extension may be required for the green streets.

POWER

Power for the new school is expected to come from 5th Street to the north. A new underground power line will be run along 5th Street.

STREET LIGHTS

SL - Assume acorn lights will need to be placed every 100' along Harlow and 5th St, to be confirmed with
city. A solar rapid flashing beacon will need to be provided mid-block along Harlow.

Troutdale Elementary School
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SCHEMATIC DESIGN

Landscape – Narrative

GENERAL APPROACH

The site development for this project will comply with the City of Troutdale standards for development. Input and direction from the Reynolds School District representatives is also represented in the site development to date.

GENERAL SITE DESIGN DESCRIPTION

The site elements have been located to minimize earthwork, and utilize the site to its maximum potential. The proposed building is located in the current school's existing play field area. The existing school will maintain operation during construction of the new school. Upon completion of the new school, the existing school will be demolished and construction of the parking lot and play areas will commence. The proposed school's finish floor elevation (FFE) will be 225.50'. Parent drop off is located in the main parking lot southwest of the entry plaza. Standard bus loading is located on SE Harlow Avenue immediately west of the school building. SPED bus loading is on SE 5th Street immediately north of the school building. It is intended for all walks on site to be universally accessible and will not require landings or handrails (except where specifically noted). Service and deliveries are located on the northeast side of the building off SE 5th Street. Overall site design and detailing of exterior improvements is driven by the flowing character of the nearby Sandy River.

GRADING

The existing site topography is gently sloping from the northwest. Site elements will generally follow the natural gradient to minimize the amount of cut and fill. Stormwater features will be demonstrative in nature at the south face of the northern classroom pod. New walks will not exceed a 2% cross slope. Grades will be set based on proximity to existing roadways. Balancing cut and fill will be a goal for this project. We recommend creating an allowance for cut and fill.

LANDSCAPE AND IRRIGATION

Landscape areas will be planted with combinations of trees, shrubs, grasses, and accent plantings. The majority of the plants will be species native to Oregon or will be native "analogue" plants: plants that are adapted to similar climatic and growing conditions to native plants. The design will accommodate the mature size of the plants and trees selected and will also allow for low ongoing maintenance requirements and reduced life cycle costs. Throughout the site trees and landscape plantings will be designed to add visual interest, provide screening, create shade, and used at locations where mowing of lawns is not practical. Lawns will be seeded with a Rye Grass Fescue mix seed. Athletic fields will use a Three-way Rye Grass blend. All landscape and lawn areas will be irrigated. There are four main landscape types anticipated:

- Plant Beds: All plant beds shall have a minimum imported topsoil depth of 18" with 3" compost. All plant beds will have 3" minimum depth bark mulch. Tree plantings at parking lots to be 2.5" caliper minimum.
- New Lawns: All new lawns shall have a minimum imported topsoil depth of 12". Lawns throughout the site will be gently sloping from the south to the north.

SCHEMATIC DESIGN

Landscape – Narrative

- Turf Play Fields: All new turf fields shall be imported sandy loam type topsoil with a minimum depth of 12". Play fields to have 2 inches of compost incorporated into the top 4 inches. Turf athletic fields to have a drainage system comprised of sand channels and 2 inch pvc perforated pipe at 10 feet on center.
- Stormwater Treatment Plant Beds: The treatment areas will have a minimum 18" imported specialty soil with 3" of compost till incorporated. Rock mulch will be installed at a 3" minimum depth.

It is anticipated the existing irrigation on the site will be abandoned or removed. New site irrigation will be accomplished with an automatically controlled underground system. It will be designed and constructed to be as efficient in terms of water usage as possible. The irrigation system will be centrally controlled using an automatic controller. All lawn and landscape areas will have full head to head coverage. Rotor heads will be used at large lawn areas and play fields. Spray heads will be used at plant beds and small lawns. Irrigation heads to have check valves to prevent low head drainage and pressure regulation. All zone control valves to have pressure regulation devices. A new Double Check Valve, Master Valve, and Flow Sensor will be installed. Master Valve and Flow Sensor will be sized to match the mainline. Refer to Civil for water meter and source information.

PARKING AND DROP-OFF AREAS

The parking lots will be constructed of asphaltic concrete and integral concrete curb and walks along the school-side perimeter. Curbs along parent, standard bus, and SPED bus loading will be painted yellow. Refer to Geotechnical or Civil for paving profiles. Interior parking lot landscape planters will incorporate tree and shrub plantings. In general landscape plantings within parking lots will be low in height. Refer to electrical for parking lot lighting.

SPECIFIC AREAS OF DEVELOPMENT

MAIN ENTRANCE PLAZA

At the main building entrance assume 2,840 sf of specialty paving consisting of colored concrete with an acid wash finish. Furnishing will include (2) steel litter receptacles with powder coat finish. Assume one (1) 30 ft commercial grade aluminum flagpole which will be illuminated. 8 hoop style bike racks to accommodate 16 bikes will be located along the south face of the building. Bike racks to be free standing, heavy gauge steel with galvanized finish. Basalt boulders of varying sizes will be set in place prior to pouring the special paving areas. The curving nature of the special paving areas are intended to resemble eddies in the Sandy River with boulders periodically protruding out of the water at the edges.

OUTDOOR COURTYARDS

Courtyards are to consist of special paving areas, basalt boulders for seating and landscape areas conducive to outdoor learning through offering flexible environments. Assume a cumulative area of 1,000 sf of specialty paving consisting of colored concrete with an acid wash finish. Outdoor classroom space may consist of specialty boulder seating, furnishings, and equipment to support math, science, and art curriculum. Water will be provided via hose bibs from the irrigation system. The central courtyard axis will contain demonstration stormwater gardens for educational purposes. The outdoor learning courtyards are connected with stepping stones oriented in a naturalistic pattern reminiscent of the Sandy River.

SCHEMATIC DESIGN

Landscape – Narrative

OUTDOOR PLAY AREAS

Hard surface play areas will consist of asphaltic concrete paving. Assume a cumulative area of 6,700 sf of hard surface paving. Pavement markings, ball wall, and basketball hoops will be installed. The soft surface play area will be surfaced with an engineered wood fiber at a minimum depth of 16" with subgrade drainage. Assume a cumulative area of 7,250 sf of soft surface paving. Play equipment will be installed within the soft surface play area.

COVERED PLAY

Refer to Architecture.

CONCRETE WALKS AND PAVING

All walkways and paths will consist of medium broom finish concrete (except at special paving areas in courtyards). All walks shall be universally accessible and will not require landings or handrails (except where specifically noted). Cross slopes on walks will not exceed 2%. Concrete paving will be reinforced at all areas where vehicle traffic is anticipated. Refer to Geotechnical and Civil for paving profiles.

SERVICE AREA

A service area is located on the northeast side of the building. The service area will consist of asphaltic concrete paving, an 8' tall decorative vision proof metal fence, heavy-duty metal framed rolling gates to allow vehicle and service access, and swing gates to allow pedestrian access. Evergreen landscape plantings will be installed to visually screen the service area. The service area will contain refuse and recycling containers and allow for service and delivery access.

DEMOLITION OF EXISTING CONDITIONS

It is assumed that all existing structures, fences, and elements will be removed from the site. Refer to Architecture and Civil for additional demolition related to building and utilities. On site topsoil will be evaluated to determine suitability for use at lawns and potentially plant beds.

SITE FENCING

All site fencing is to be black vinyl chain link fencing. The fencing west of the school will be 42" in height. The fencing south and east of the play field is to be 8' in height. All other fencing is to be 6' in height. All pedestrian gates shall be single or paired 4' swing gates.

Troutdale Elementary School
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SCHEMATIC DESIGN

Structural – Narrative

GENERAL APPROACH

The structural system for Troutdale Elementary School will consist of wood framing with CMU walls at the gymnasium. The roof framing will consist of wood open-web joists at long span areas over the gymnasium, commons area, and media center. These joists will typically be spaced at 48" o.c. A four foot deep glu-lam beam will be used at the proscenium opening. Other areas of the roof will be framed with a combination of wood I-joists at 24" o.c. and glu-lam beams. The roof will be sheathed with 3/4" plywood at the long span joists and 5/8" plywood at the typical areas. A lightweight cementations topping may be added to the roof as part of the roofing system.

At the second level, the floor will consist of ¾" plywood with 1½" of gypcrete topping. The floor will be supported by 20" to 24" deep wood I-joists at 16" o.c. and glu-lam beam girders. The wood framing of the roof and floor will be supported by a combination of the CMU walls, wood stud bearing walls (2x6 studs), wood posts, and some steel columns as needed. The foundation system for the structure will consist of conventional concrete spread footings with continuous footings under bearing walls. Per the geotechnical report by GeoDesign, the footings are to bear on a 4 inch thick granular pad underlain by undisturbed native soil or structural fill. The allowable bearing pressure is 2500 psf. The ground floor will consist of a reinforced 4" thick concrete slab on grade over 6" of gravel. An underground Radon removal piping system will be embedded below the slab. Lateral loads on the building will be resisted by a combination of CMU shear walls and plywood shear walls. The plywood shear walls will be located at interior and exterior walls of the building.

SEISMIC RESILIENCY

The seismic resiliency of the building will be based on minimum code requirements conforming to the 2014 Oregon Structural Specialty Code (OSSC). School buildings are considered a risk category III structure so they are designed to a higher performance level than a standard office or retail building. Schools are designed with an Importance Factor of 1.25 as opposed to 1.0 for typical buildings. Therefore, they are designed for 25 percent higher seismic forces. If it is desired to design the school as an essential facility, similar to hospitals and emergency facilities, the Importance factor would be 1.5. Therefore, the school would have to be designed for a 20 percent increase in seismic forces. This increase in force would affect the lateral system, such as shear walls, including foundations at those elements, as well as diaphragms and their connections and collectors. The increase in force would also affect non-structural elements such as MEP equipment anchorage and bracing. In our experience the increase in structural costs to design a school as an essential facility is $1.50 to $2.00 per square foot.

Troutdale Elementary School
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SCHEMATIC DESIGN

Architectural – Narrative

BACKGROUND

The origin of the current Troutdale Elementary School dates to the 1926. Troutdale Elementary is one of the oldest school buildings in the Reynolds District.

In 2015, Reynolds School District completed a Facility Master Plan which called for the replacement of the Troutdale Elementary School Building on the current site. An extensive assessment of the facility determined the building is a "high seismic risk", lacks compliance with accessibility requirements, and does not meet current educational standards. Costs to repair the existing building were found to greatly outweigh the cost to replace.

In May 2015, District voters approved a $125 million bond referendum which funded the construction, furnishing and equipping of this and other school improvement projects throughout the District.

PROPOSED PROJECT

To meet the school and District's needs, the Troutdale Elementary School building will be replaced on its 3.98 acre site located at the intersection of SE 5th Street, SE Harlow Avenue, and SE Sandy Avenue.

The project is proposed to include construction of a new elementary school building of approximately 72,000 square feet to be located in a playfield north of the current building.

The current school will remain in operation until the new building is ready for occupancy. Demolition of the existing structure will follow remediation of hazardous materials in accordance with applicable regulations. Existing modular classrooms will also remain in use during most of the construction and will be removed. The current site of the buildings and modules will then be developed into open fields, parking and student drop off areas.

The new building will increase student capacity and continue to house up to 588 elementary students in grades Kindergarten through 5th. The school will be designed to provide a student-centered learning environment supporting current and future instructional methods. A key principle of the Owner is to provide a safe and secure environment for the children. Improved outdoor instructional and play areas will be provided.

Safe and efficient traffic flow for buses and parents is also a prime consideration in the site planning. On-site automobile traffic is to be separated from school bus traffic to facilitate peak student loading and unloading at the beginning and end of the school day.

In addition to its educational purpose, the building serves Community uses as a key element of the design. Assembly spaces accessible to the community after school hours will include a gymnasium housing a high school size basketball court, a cafeteria (learning commons) with stage, a library, and a flexible classroom/multipurpose space.

The main entry point for both students/staff and visitors will be configured with a secured vestibule such that at least one pair of double doors will enter direct into the entry corridor during the start of

school and a secondary door will enter direct into the front office. Once school is in session, the direct corridor entry will be automatically locked. From the office, another door will be provided to bypass the secured vestibule once the individual has checked in with reception. All the doors in this configuration will be on the access control system and provided with ADA operators and card readers as needed. The front office windows and reception desk will be designed to provide good visibility for natural surveillance of the main entry door configuration and the parking lot. The lockdown initiation button shall be installed in the reception desk.

Additionally windows and doors within this area will also be designed with safety film to deter or delay forced entry. Special consideration will be taken when selecting interior and exterior lighting as well as window treatments. Lastly clear and direct signage shall be provided to clearly note restricted access and direct visitors to the main entry to check in.

A comparison of the existing and currently proposed facilities is summarized as follows:

Feature	Existing	Current Proposed
Student Capacity	430	588
Building Size (Sq. Ft.)	54,629	72,000
Classrooms	20	32
Modular Classrooms	4	0
Buses-Large	2	6
Buses-Special Education	4	4
Automobile Parking Capacity	28	73

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SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

BUILDING ENVELOPE

The performance of the building envelope will be critical both to the energy efficiency of the building and to the comfort level of the occupants. The proposed mechanical systems and preliminary equipment sizing are based on the following performance for each envelope component:

Category	Option 1	Option 2	Option 3
Exterior Wall Construction	Overall U-Factor = 0.025, R = 40	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.064, R = 16	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.064, R = 16
Roof Construction	Overall U-Factor = 0.02, R = 50	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.05, R = 20	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.05, R = 20
Windows	0-30% Glazing Assembly U-Value = 0.3 Solar Heat Gain Coefficient (SHGC) = 0.4	Oregon Energy Efficiency Code Min: 0-30% Glazing Assembly U-Value = 0.45, Solar Heat Gain Coefficient (SHGC) = 0.4	Oregon Energy Efficiency Code Min: 0-30% Glazing Assembly U-Value = 0.45, Solar Heat Gain Coefficient (SHGC) = 0.4
Infiltration	0.18	Not Regulated	~0.05 cfm/sq.ft.
Orientation	As Designed	Average of (4) 90° rotations	As Designed

Table 1: Envelope Component Performance

MECHANICAL HVAC SYSTEMS DESIGN CRITERIA

Outdoor Conditions	Summer	Winter
ASHRAE 0.4% Summer and 99.6% Winter Data	91°F DB/ 68°F WB	24°F

Table 2: Outdoor Conditions

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Indoor Conditions	Summer	Winter
Offices and Classrooms	74°F ±2°F	70°F ±2°F
Cafeteria	74°F ±2°F	70°F ±2°F
Media Center	74°F ±2°F	70°F ±2°F
Storage	85°F ±2°F	60°F ±2°F
Circulation and Restrooms	78°F ±2°F	68°F ±2°F
Relative Humidity	<50% ±5%RH	No control

Table 3: Indoor Conditions

Outside Air Requirements	
General Office	20 CFM/person
Classrooms	15 CFM/person
Exhaust Air Requirements	
Restrooms and Janitors	2.0 CFM/sq ft
Acoustical Criteria	
Offices	RC 40
Classrooms	RC 30
Public/Open Areas	RC 45
Internal Loads	
Naturally ventilated space temperatures should based on outside air temperature and the following table from ASHRAE Standard 55: Acceptable operative temperature ranges for naturally conditioned spaces	

Table 4: Indoor Conditions

Low-Pressure Ductwork	
Static Pressure Loss	Maximum 0.1 inches WC per 100 feet
Main Velocity	Maximum 1,500 feet per minute
Branch Velocity	Maximum 1,200 fpm
Flexible Ducts	Maximum length 7 feet/ minimize total 90° bends.
Medium-Pressure Ductwork	
Static Pressure Loss	Maximum 0.28 inches WC per 100 feet
Main Velocity	Maximum 2,400 feet per minute
Branch Velocity	Maximum 2,000 fpm
Hydronic Piping	
Static Pressure Loss	Maximum 4 feet WC per 100 feet
Velocity	Maximum 7 feet per second

Table 5: Duct and Pipe Sizing Criteria

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

HVAC Systems Option 1

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A super-performing envelope (see Section 2.0) will allow for passive heating in the classroom areas. This means that the heat loss through the envelope will be lower than the heat generated inside the space due to occupants, lights, and plug loads when the outside air temperature is 35F or above. For night low limit and colder days, electric cove heaters will be provided to maintain space temperature. Cooling will be achieved through operable windows.

The media center will be provided with a packaged roof A/C unit equipped with gas heat.

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and gas heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units. Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM ERVs, flat plate w/ electric heating coil (Ventilation air) – Renewaire
- (1) 6,000 CFM ERVs, flat plate w/ electric heating coil (Ventilation air) – Renewaire
- (1) Gas Fired MAU – 1,000 CFM
- (1) Media Center Packaged Rooftop unit A/C unit with Gas Heat– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (2) Gym rooftop AHU w/ heat recovery & gas heat – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF)- Aaon
- (1) Commons rooftop AHU w/ heat recovery & gas heat – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (2 per classroom) 1.5 kW Cove heaters (Qmark)
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF)

HVAC Systems Option 2

High efficiency, gas-fired, condensing boilers will be located in first floor mechanical room. Boilers will provide heating water to heating coils in AHU's and space heating equipment.

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A code envelope will be provided. Finned tube radiators at the perimeter will be provided to maintain space temperature. Cooling will be achieved through operable windows.

The media center will be provided with a packaged roof A/C unit equipped with hydronic heat.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and hydronic heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units. Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (2) 6,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (1) Hydronic MAU – 1,000 CFM
- (2) 1,500 MBH Condensing Boilers - Crest
- (2) 150 GPM Pumps
- (1) Media Center Packaged Rooftop A/C unit with hydronic heating coil– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (1) Gym rooftop AHU w/ heat recovery & hydronic heating coil – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF) - Aaon
- (1) Commons rooftop AHU w/ heat recovery & hydronic heating coil – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF)
- Perimeter finned tube radiation with sloped top

HVAC SYSTEMS OPTION 3

High efficiency, gas-fired, condensing boilers will be located in first floor mechanical room. Boilers will provide heating water to heating coils in AHU's and space heating equipment. A changeover valve will be provided so that a future air cooled chiller can be connected to the hydronic distribution system to provide cooling to the classrooms in the future.

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A code envelope will be provided. Radiant ceiling panels or radiant floors will be provided to maintain space temperature. Cooling will be achieved through operable windows. Future cooling could be provided by circulating chilled water through the radiant system.

The media center will be provided with a packaged roof A/C unit equipped with hydronic heat.

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and hydronic heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (2) 6,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (1) Hydronic MAU – 1,000 CFM
- (2) 1,500 MBH Condensing Boilers - Crest
- (2) 150 GPM Pumps
- (1) Media Center Packaged Rooftop A/C unit with hydronic heating coil– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (1) Gym rooftop AHU w/ heat recovery & hydronic heating coil – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF) - Aaon
- (1) Commons rooftop AHU w/ heat recovery & hydronic heating coil – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF) Radiant ceilings (60% of ceiling area) or radiant floors with a zone per each classroom.

COMPARISON OF OPTIONS

1 = Highest Cost5 = Lowest Cost

System Options			
System	Option 1	Option 2	Option 3
System Description	Passively heated and cooled classrooms	Actively heated classrooms	Actively heated classrooms with option of future cooling
Capital Cost	Low	Medium	High
Annual Energy Savings	High	Medium	Medium
Energy Savings Incentive Potential	High ETO	Medium ETO	Medium ETO
Service Life	10 years cove heaters 40+ years envelope	20 years	20 years
Advantages	1. No chiller 2. No boilers 3. Low maintenance 4. Least energy use 5. Reduced heating energy cost	1. Traditional system. 2.	1. Potential to add cooling to classrooms

System Options			
Disadvantages	1. Dependent on envelope performance. 2. No cooling possible	1. Added maintenance cost. 2. Not able to add cooling in future.	1. Higher first cost.

Table 6: Heating System Options

EXHAUST SYSTEMS

Exhaust air for toilet rooms, janitor's closets, copy rooms, general room exhaust and similar uses will be ducted to the roof and used for heat recovery in the classroom and admin areas. Kitchen will be served by a Type 1 and Type 2 exhaust fan connected to hoods specified by the Kitchen Consultant.

CONTROLS

A direct digital control (DDC) system will be provided to control and monitor all HVAC equipment and systems. Valve and damper actuation will be electric type. The control system will be integrated into the existing campus system to allow full control and monitoring from the existing operator's terminal. The control system will perform all required control functions, including optimization of equipment and system performance, reliability, equipment life and energy consumption.

An extensive measurement and verification system is anticipated to carefully monitor all of the building's energy use.

PLUMBING SYSTEMS DESIGN CRITERIA

Domestic Water Piping	
Minimum Pressure	35 PSI at most remote outlet
Maximum Pressure	80 PSI
Static Pressure Loss	Maximum 6 psi per 100 feet
Velocity	Maximum 8 feet per second (Cold Water) Maximum 5 feet per second (Hot Water)
Storm Drainage	
Rainfall Rate	Maximum 1.3 Inch/hr
Piping Slope	Minimum 1/8" per foot
Waste and Vent Piping	
Sizing	
Piping Slope	Minimum 1/4" per foot

Table 7: Plumbing Piping Sizing Criteria

PLUMBING FIXTURES

Commercial grade low flow fixtures will be provided where indicated on the architectural drawings.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Plumbing Fixture Types and Locations						
Fixture	Location	Type	Control	Flow	Basis of Design	Notes
WC-1 Water Closet	Restrooms	Wall hung, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	
WC-2 Water Closet	Restrooms (ADA wheel chair and ambulatory stalls)	Floor mounted, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	Seat at 18-inches above floor, centerline at 17-inches from wall
WC-3 Water Closet	Restrooms	Junior, Wall hung, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	Seat at 10-3/4" inches above floor
L-1 Lavatory	Restrooms	Counter mounted, vitreous china	Sensor Operated	0.5 GPM	Kohler sink basin with Delta faucet	All locations are ADA accessible
U-1 Urinal	Restrooms	Floor mounted, vitreous china	Sensor Operated flush valve	0.5 GPF	Kohler Urinal with Sloan flush valve	
U-2 Urinal	Restrooms (ADA)	Floor mount, vitreous china	Senor Operated flush valve	0.5 GPF	Kohler Urinal with Sloan flush valve	Rim mounted at 17-inches above floor
S-1 Sink	Kitchenettes	Self rimming, counter mounted, Stainless steel	Single lever faucet, swing spout	1.5 GPM	Elkay sink basin with Delta faucet	ADA faucet

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Plumbing Fixture Types and Locations						
Fixture	Location	Type	Control	Flow	Basis of Design	Notes
DF-1 Drinking fountain with bottle filler	Varies	Dual height with bottle filling station, stainless steel	Front push pad operation for drinking fountains and sensor operation at bottle filler	1.5 GPM at bottle filler	Elkay	Non-refrigerated

Table 8: Plumbing Fixture Types and Locations

Commercial grade fixtures will be provided where indicated on the architectural drawings. Refer to table below for representative flow rates for each type of fixture.

Water closets, urinals and lavatories will be low flow type.

Kitchen Faucets will be Code Flow type.

Fixture Type	Code Flow	Low Flow	Ultra-Low Flow	No Flow	ASHRAE 189	Proposed
Water Closet	1.6 GPF	1.6/1.1 GPF Dual Flush	1.28 GPF	Composting	1.28 GPF	1.28 GPF
Urinal	1.0 GPF	0.5 GPF	0.125 GPF	Waterless	0.5 GPF	0.5 GPF
Lavatory – commercial	.5 GPM	1.0 GPM	0.5 GPM	--	0.5 GPM	0.5 GPM
Shower	2.5 GPM	2.0 GPM	1.5 GPM	--	2.0 GPM	1.5 GPM
Kitchen Faucet	2.5 GPM	2.2 GPM	2.0 GPM	--	2.2 GPM	2.0 GPM
GPF = Gallons per Flush		GPM = Gallons per Minute				

Table 9: Fixture Options and Alternates

DOMESTIC COLD WATER SYSTEM

An A 4-inch water service will be extended to the building and connect to the new service provided by Civil. The backflow device on the incoming domestic water supply will be located in a vault by civil. The domestic water system shall be provided with positive means to control backflow, with appropriate backflow preventers at sources of possible contamination within the building, such as mechanical equipment or industrial cold/hot water systems.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

A domestic water flow test has not been provided for the site at this time. The project team has requested that a current flow test be provided to confirm static pressure and available utility connection locations.

Cold water will be distributed to the plumbing fixtures. Refer to Architectural Drawings for plumbing fixtures and room locations. Freeze-proof hose bibs to be distributed around perimeter of building at every 100 feet, and be provided for the service yard.

Type L copper piping will be used for all above grade water piping and Type K copper will be used for below grade piping.

Irrigation: A backflow device will be provided for the irrigation system within the water service room. Irrigation piping will be stubbed out of the building for the landscape use.

DOMESTIC HOT WATER SYSTEM

Domestic hot water and will be provided from two electric hot water heaters serving the classroom pods (one served the east pod, the other serves the west pod). A high-efficiency gas-fired water heater will serve the Kitchen loads. The domestic hot water system components shall be controlled by the building management system. A master thermostatic mixing valve will temper the hot water to 120°F for general use, and an additional thermostatic mixing valve will provide tempered water at 90°F for emergency fixture use.

A recirculating hot water loop and hot water circulation pump will be provided. The water heaters will produce 140°F for health and equipment efficiency purposes. A master mixing valve assembly will be utilized at water heaters to temper the hot water for plumbing fixture use to deliver 120°F hot water. Expansion tanks will be provided on hot water systems at water heaters to eliminate pressure buildup when the system is not being used.

Equipment:

- (1) 150 MBH condensing gas water heater w/ 100 gallons storage capacity
- (2) 45kW electric water heater w/ 120 gallons storage capacity
- (3) Recirculation pump
- (3) Expansion tank
- (3) Master mixing valves

All domestic hot water supply and return piping shall be type L copper with soldered or brazed joints.

STORM DRAIN SYSTEM

A roof and overflow drain system will be provided as required by code. Overflow storm drain system will daylight utilizing downspout nozzles at the first floor level above grade. The storm water piping shall be routed to the west side of the building to an underground civil connection.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

A site survey documenting the locations, invert elevations, and sizes of existing storm drain connections/routing has not been provided at this time. The project team has requested a survey be performed to confirm this information and further design the connections to the site utilities.

All storm and overflow drain piping shall be cast iron with no-hub couplings.

SANITARY SEWER SYSTEM

Sanitary waste and vent piping will be provided toilet rooms and other spaces as required. A grease waste system will be provided for the Kitchen with the grease interceptor located on the west side of the building by civil. Sump pumps will be provided for elevator shafts, and connected to the gravity sanitary system within the building.

A site survey documenting the locations, invert elevations, and sizes of existing sanitary sewer connections/routing has not been provided at this time. The project team has requested a survey be performed to confirm this information and further design the connections to the site utilities.

All sanitary waste and vent piping shall be cast iron with no-hub couplings.

NATURAL GAS SYSTEM

A new natural gas service will be provided from an existing gas main. Gas piping up to, and including the gas meters will be by NW Natural.

All natural gas piping shall be schedule 40 black steel with screwed or welded fittings.

Natural gas will be extended to serve the new boilers, water heaters, gas fired AHUs and Kitchen loads. Connection to the gas meter and installation of the house gas piping shall be per local gas company and OSSC requirements.

Separate gas sub-meters will be provided for the Kitchen and mechanical loads.

FIRE PROTECTION SYSTEMS DESIGN CRITERIA

Hazard Level	
Office and Classroom Areas	Light Hazard
Mechanical & Storage Areas	Ordinary Hazard

Table 10: Hazard Levels

WET PIPE SPRINKLER SYSTEM

A 4-inch fire service will be provided and enter the building at the Riser Room.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

The entire building will be totally sprinklered in accordance with NFPA 13. A detector double check assembly will be provided for the fire service in the riser room. The fire department connection (FDC) will be located on the building, at a location to be determined.

All required system isolation valves shall be provided with tamper switches. Each floor shall be provided with a zone isolation valves with tamper switches, flow switches, fire department test stations, and hose valves (as required). The fire department test drain shall terminate outside of the building. All fire protection system materials to be of a domestic manufacture.

Fire sprinkler heads to be chrome plated semi-recessed pendant type with polished chrome escutcheons in finished areas and upright rough brass finish type heads in unfinished areas. Horizontal dry sidewall sprinkler heads will be provided for overhangs, loading dock, and other perimeter areas subject to freezing. Quick-Response heads will be provided in all light hazard areas.

DRY PIPE SPRINKLER SYSTEM

Dry pipe sprinkler systems will be used where sprinklers are subject to freezing such as exterior covered walkways connected to the building and overhangs. Dry pipe systems shall be galvanized inside and out, threaded or with cut grooves.

ELECTRICAL SERVICE AND DISTRIBUTION DESIGN CRITERIA

Load Densities: Lighting and Power Systems

The following load allowances will be provided for the project:

Area	Lighting Systems (VA/sf)	Power Systems (VA/sf)
Offices	1.0 – 1.1	7 – 10
Class Rooms	1.25 – 1.4	4.0
Circulation/Transition	0.5 – 0.6	1.0
Service Areas	0.5 – 0.6	0.5
Stairs	0.5 – 0.6	0.5
Restrooms	0.9	1.0
Storage	0.9	0.5
Mechanical/Electrical Areas	0.9	0.5

Table 11: Lighting and Power Load Densities

SERVICE

The main power service will be provide by the local utility, PGE. The project will provide the conduit system to the service tie in point, as designated by PGE, and a transformer vault in the service yard. PGE will provide the service conductors and the service transformer.

DISTRIBUTION

The main service will be approximately 2000 amps and the main service voltage of 480Y/277V will be used to feed lighting and large mechanical loads. A secondary voltage of 208Y/120V will be derived using energy efficient dry type transformers.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

The main 480vac service panel (MDP) will be located in the main electrical room on level 1 SW corner of the building, also located in the main electrical room will be a step down transformer and 208vac sub-distribution panel. These two distribution panel will provide services to the branch panels through the building.

480vac and 208vac branch panels and local step down transformers will be provided throughout the building, and located in dedicated electrical rooms, as required for local area receptacle and lighting circuiting requirements, with areas of coverage as follows:

Level 1:

- Kitchen: kitchen will be provided with dedicated 208Y/120V panels located within an accessible service area close the kitchen loads. These panels will be fed from a dedicated transformer.
- Music/Stage: separate 208Y/120V panel to service loads within these areas.
- Gym: 208Y/120V flush mounted panel dedicated for gym loads.
- Admin area: a 208Y/120V panel to serve Admin and adjacent classroom.
- Classroom pods: (two areas) a 480Y/277V panel, step down transformer and 208Y/120V panels, located in electrical rooms.

Level 2:

- Mechanical room: a 480Y/277V panel, step down transformer and 208Y/120V panels, located in the mechanical room.
- Classroom pods: (two areas) a 480Y/277V panel, step down transformer and 208Y/120V panels, located in electrical rooms
- Media Center: dedicated 208Y/120V panel(s).

Refer to attachments for locations of electrical equipment panels and estimated sizes of electrical rooms.

Branch Circuit Wiring: Copper conductor in EMT raceway. Each branch circuit will be provided with a dedicated neutral conductor.

Building Power Receptacles: Receptacles will be provide throughout the building interior spaces as appropriate for the space usage. Service/maintenance receptacles will be provide at the exterior, in the electrical and mechanical spaces and the roof top. Ground fault circuit interrupter receptacles will be provided in toilet rooms at sinks, roof, outdoor and wet areas or as code required.

Equipment Connections: Electrical power connections will be made to all mechanical equipment, to include providing all electrically associated devices such as disconnect switches, contactors, magnetic or

manual starters, lock-out switches, etc., not furnished under Division 23. VFD's furnished under Division 23 and installed under Division 26.

Electrical power connections will be made to support miscellaneous equipment. Connections include disconnect safety switches and wiring to support interlocks to remote devices.

Kitchen Equipment Connection: electrical connections to kitchen equipment will be based upon the requirements as designated by the kitchen consultant, kitchen spaces will be provided with GFCI type receptacles. Connections to the kitchen cooler and freezer will be from the diesel generator power source.

OFF-SITE IMPROVEMENTS

Off-site improvements (along SE Harlow Ave and SE 5th St): Electrical and Telecom utility company conduits and vault systems will be provided, in order to provide underground infrastructure for removing and relocating overhead utility wiring. Utility wiring systems will be removed and relocated within conduit and vault infrastructure provided by this project. A dedicated metered service pedestal, street lighting, and controls will be provided to serve street lighting along the street improvement areas. Utility systems infrastructure and street lighting systems will be provided as required by the utility company, and by municipal standards, respectively.

ON-SITE POWER SYSTEMS

EMERGENCY GENERATOR

Emergency (egress lighting) and Optional Standby power will be provided by a diesel fired generator. The diesel generator will be a self-contained, exterior located unit with a weather proof housing and a built in base fuel tank. The generator is to be located at the service yard. The base fuel storage tank will provide for a minimum of 12 hours power source operation.

Separate automatic transfer switches (ATS) are provided for emergency loads and optional standby loads. Emergency loads will be those designated as life safety meeting the criteria of NEC 700, mainly the egress lighting. Optional Standby loads (NEC 702) will include the telecom room loads, kitchen coolers/freezers, gym lighting, mechanical, electrical and telecom room lighting.

The ATS(s) and associated 408Y/277V distribution, stepdown transformer and 208Y/120V panels will be located in a dedicated electrical room next to the main electrical room.

Emergency Shelter power provisions will be provided to serve a portion of school's lighting, power, and mechanical systems during a long-term utility outage. A dedicated NEMA 3R portable generator dock, utility main circuit breaker kirk-key interlock, and lug connections at the electrical service will be provided. The portable generator dock, feeder, and connections will be sized to match the main service panel (MDP).

UNINTERRUPTIBLE POWER SUPPLY (UPS)

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

UPS (Uninterruptible Power Supply) power will be provided using a battery storage UPS unit. UPS will be located in the telecom MDF, IDF rooms. The UPS will be powered from the generator source and provide the transition time from loss of utility power to start and transfer of load to the generator and, the return to the utility upon confirmed stability of the source.

RENEWABLE POWER SUPPLY (PV)

The potential to add a renewable photovoltaic system or a system that is "PV-ready" are being considered. The PV system would tie into the main power service at the main electrical room panel. Electrical power generated would be first used to offset the building loads. Capacity generated beyond facility use will be back fed to the utility per their agreement.

GROUNDING SYSTEM

Two grounding criteria will be addressed, safety and performance. A safe grounded power system will be provided in compliance with the NEC. This ground system consists of the building service ground (multiple ground rods, connections to the building slab rebar, and bonding to the water service and structure steel. The safe grounding system will be extended thru out all electrical systems in facility. All metallic systems will be grounded to the building grid. A dedicated ground conductor will be provided with each feeder and branch circuit. A copper ground buss will be provided in each MDF and IDF room and tie to the main grounding system, the telecom equipment will be grounded to the buss.

LIGHTING DESIGN CRITERIA

Area	Source	Light Level Ambient (ave FC)	Light Level Emergency (ave FC*)
Offices	LED	25-35	1.0
Circulation/ Transition	LED	15 – 25	1.0
Service Areas	LED	15 – 25	NA
Stairs	LED	15 – 25	1.0
Restrooms	LED	25-35	1.0
Storage	LED	15 – 25	NA
Mech/Elec Areas	LED	35 – 45	1.0
Classrooms	LED	15-25	1.0
(* Emergency Lighting: Emergency lighting system and panel capacity will be designed on the basis of 0.25 volt-amperes/sq. ft. of gross space)			

Table 12: Lighting Design Criteria

SITE LIGHTING

Building lighting will be integrated with the building exterior features. Illumination will be provided for passage and security/safety, and to provide highlights to the exterior elements. Site illumination will use a combination of pole mounted lighting for parking areas and shorter pole mounted lighting and bollards for circulation areas as coordinated with the

landscape and civil design. The source type used will be LED, height and style will depended on the luminaire location and distance from the lit task. All exterior luminaires will use cutoff optics to address light trespass issues. Lighting control will be photocell and programmable timeclock controls.

INTERIOR LIGHTING

The electrical lighting systems will be designed in compliance with the State of Oregon Structural Specialty Code. Energy efficient sources and automatic control technologies will be implemented to provide the most efficient and effective electric lighting system for the facility occupants and task. Controls will provide switching and dimming of the lighting to permit maximum use of the available natural light.

Designs will be based on LED technology sources for the project. The type of luminaire will be coordinated with area task. Illumination issues to be addressed include lighting levels, photo-sensitive areas, uniformity and glare.

LIGHTING CONTROLS

Control of lighting will be provided by the following methods for the respective tasks/areas:

Task/Area	Control Method
Building Exterior and Site	Time Clock and Photocell
Corridors	Corridor Occupancy Sensor for Egress Lighting, Timeclock control for normal lighting.
Classrooms Spaces	Wall Switches, Occupancy sensors, Daylighting dimming
Offices	Occupancy (vacancy) Sensor with manual override switch
Gym / Commons	Wall Switches and afterhours timeclock
Stage	Wall Switches / dimmers
Media Center	Occupancy (vacancy) Sensor with manual override switch
Maintenance Spaces	Occupancy (vacancy) Sensor with manual override switch
Restrooms	Occupancy Sensor with manual override switch
Mech/Elec/Data rooms	Wall switches

Table 13: Lighting Control Methods by Area

SIGNAL SYSTEMS

FIRE ALARM

The Fire Alarm system will consist of a supervised addressable supervised, Class B hard wired system. Manual pull stations will be provided at each exit and exit leaving an elevated floor.

Device	Coverage
Manual pull stations	Located in the main office.
Smoke Detectors	Air handlers (>2,000CFM), Fire Smoke Dampers, Elevators lobbies, Elevator machine rooms, Elevator hoistways.
Fire Sprinkler	Tamper and Flow
Annunciation	Remote Annunciation at entry
Building Annunciation	Voice Evac and Strobe annunciation thru out the facility.
System output	Relay interface for mechanical system shut down and elevator recall.
Monitoring	Central Station Monitoring

Table 14: Fire Alarm Device Coverage

TECHNOLOGY

TELECOM SYSTEM INFRASTRUCTURE

The school will be connected to the District's Wide Area Network (WAN), and a "to be determined" ISP (Internet Service Provider), where new copper and fiber will be extended from the ISP's nearest connection facility to the telecommunications equipment room (ER) located on the first floor near the service area entrance of the school. The ER will house the voice, network, security and video distribution head ends for the school. The ER will also serve as a TR for the immediate area (within 90 meters) and the demarcation point for an ISP. The minimum size for the ER will be 144 sq. ft., with no wall dimension less than 12 feet long.

In addition to one ER, there will also be additional telecommunication rooms (TR). These TRs will serve the rest of the school, housing voice, data and video equipment. The minimum size for a TR shall be 72 sq. ft. with no horizontal wall less than 8 feet.

The ER and each TR will require grounding and bonding, cable tray and ladder rack that is seismically braced to meet all AHJ codes. The ER will house at least 6 freestanding telecommunications equipment racks. Each TR will house at least two equipment racks.

Cabling systems provided will be a mix of both optical and copper systems, all plenum rated. The intra-building fiber optic cable will be, at least, 12-strands of 50/125um multimode fiber. This fiber will mainly be used to connect each TR to the ER. Horizontal copper cabling will be provided using a minimum Category 6 cabling, with an exception of installing Category 6A cable to wireless access points (WAP). Each work area outlet (WAO) will have a minimum of two cables installed to the faceplate. Pathways will be cable tray above the ceiling in the hallways and conduit from each WAO to within 6" of the cable tray. Maximum horizontal cable distance will by 90 meters.

Wireless access points (WAP) are also to be provided as part of the new Troutdale ES. The layout of these WAPs will be designed with maximum coverage in mind as well as following the standards within the "Telecommunications Infrastructure Standards" document, provided by NIS.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

PAGING/INTERCOM SYSTEM/CLOCK SYSTEM

A paging/intercom/clock system will be designed in coordination with architectural features and RSD operational requirements. Detailed design and specifications will be coordinated with eventual system installer.

Typical school paging/intercom/clock systems consist of the ability to communicate with specific rooms/classrooms and also to communicate with the entire school at once.

ELECTRONIC SECURITY SYSTEM

An access control system will be designed per RSD standards. The project will utilize standards currently being developed on the RSD Secure Vesibule project.

Security design will incorporate CCTV, building security and access control design. Main areas of coverage will include all entry and exit points, areas where a high concentration of activity occurs, parking lots and locations that do not have direct line of sight from teachers and other admin staff. Entrances that require card reader access and panic access controls will be designed with coordination with the RSD and their designated security consultant.

AV SYSTEM

AV systems will be designed with coordination with RSD standards.

- Classrooms:A/V connections for the teacher's desk to a wall or ceiling mount projector and external audio input.
- Multipurpose Room: A/V connections to a projector with external audio.
- Conference rooms: A/V connections to a wall-mount display or projector, depending on the size of the room. Floor-boxes will also be designed as part of all conference room designs to include power connections, data connections and A/V connections.
- Gymnasium: A/V connections will be designed to support a large audience for video and audio needs.

DISTRIBUTED ANTENNA SYSTEM (DAS)

Public Safety Network (PSN) DAS will be designed to allow first responders to communicate from within the building to their dispatch location and to communicate with other responders located outside of the building.

Standard arrangement for the PSN DAS system will be to include small radiating antennas mounted throughout the school. A main donor antenna receives signals from the outside and rebroadcasts them inside the building to areas that first responder's radios may not be able to communicate with the outside world on their own (based on building materials and architecture).

PSN DAS systems require higher fire ratings for their system's cable pathways. The coax backbone cabling to the donor antenna outside requires a 2HR fire rating. The horizontal cabling for the PSN DAS require a 1HR fire rating. The PSN DAS headend equipment also require to be located within a 2HR fire rated enclosure.

COVER SHEET		BLRB
FRONTISPIECE		BLRB

DIVISION 00	PROCUREMENT REQUIREMENTS	
000001	INVITATION TO BID	RSD
000107	SEALS	BLRB
000100	INSTRUCTIONS TO BIDDERS	DAY
000110	TABLE OF CONTENTS	BLRB
000115	LIST OF DRAWING SHEETS	BLRB
000200	BID FORMS	BLRB
	FORM OF AGREEMENT BETWEEN OWNER AND CMGC	DAY
000510	PERFORMANCE AND PAYMENT BONDS	DAY
000700	GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION	DAY
	- SPECIAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION	DAY
000730	SUPPLEMENTARY CONDITIONS	DAY
003119	EXISTING CONDITION INFORMATION	DAY
003126	EXISTING HAZARDOUS MATERIAL INFORMATION	BLRB
	- HAZMAT MATERIALS INVESTIGATION REPORT	PBS
003132	GEOTECHNICAL DATA	GEO
	- SUBSURFACE EXPLORATION, PRELIMINARY GEOTECHNICAL AND INFILTRATION FEASIBILITY REPORT	GEO

DIVISION 01	GENERAL REQUIREMENTS	
011000	SUMMARY OF WORK	BLRB
011400	WORK RESTRICTION	DAY
012100	ALLOWANCES	BLRB
012200	UNIT PRICES	BLRB
012300	ALTERNATES	BLRB
012500	PRODUCT SUBSTITUTION & OPTIONS	BLRB
012500A	PRODUCT SUBSTITUTION REQUEST FORM	BLRB
012600	CHANGE PROCEDURES	BLRB
	- REQUEST FOR INFORMATION	BLRB
	- ARCHITECT'S SUPPLEMENTAL INSTRUCTION	BLRB
	- CHANGE ORDER	BLRB
	- CHANGE ORDER PROPOSAL	BLRB
	- CONSTRUCTIVE CHANGE DIRECTIVE	BLRB
	- COST PROPOSAL SUMMARY FORM A - GENERAL CONTRACTOR	DAY
	- COST PROPOSAL SUMMARY FORM B - SUBCONTRACTOR/SUPPLIER	DAY
012900	PAYMENT PROCEDURES	DAY
012973	SCHEDULE OF VALUES	BLRB
013100	PROJECT MANAGEMMENT AND COORDINATION	DAY

013119	PROJECT MEETINGS	BLRB
011323	PROJECT MANAGEMENT DATA BASE	DAY
013200	CONSTRUCTION PROGRESS DOCUMENTATION	BLRB
013223	SURVEY AND LAYOUT DATA	BLRB
013233	PHOTOGRAPHIC DOCUMENTATION	BLRB
013300	SUBMITTALS, SHOP DRAWINGS, PRODUCT DATA & SAMPLES	BLRB
013311	DELEGATED DESIGN AND SUBMITTAL REQUIREMENTS	BLRB
014000	QUALITY REQUIREMENTS	BLRB
014500	CONTRACTOR'S QUALITY CONTROL SYSTEM	DAY
	- CONTRACTOR'S DAILY REPORT	DAY
	- NOTICE OF NONCOMPLIANCE	BLRB
014550	AIR MONITORING REQUIREMENTS	PBS
014550	TESTING LABORATORY SERVICES	DAY
015000	TEMPORARY FACILITIES AND CONTROLS	DAY
015800	PROJECT IDENTIFICATION	BLRB
015850	CONSTRUCTION SIGN	BLRB
016000	PRODUCT REQUIREMENTS	DAY
017300	EXECUTION	DAY
017329	CUTTING AND PATCHING	DAY
017400	CLEANING AND WASTE MANAGEMENT	DAY
017700	CONTRACT CLOSEOUT	DAY
	- SUBSTANTIAL COMPLETION CHECKLIST	BLRB
	- FINAL COMPLETION CHECKLIST	BLRB
017823	OPERATION AND MAINTENANCE DATA	DAY
017836	WARRANTY PROCEDURES	DAY
	- CONTRACTOR'S WARRANTY	DAY
	- SUBCONTRACTOR'S WARRANTY	DAY
017839	PROJECT RECORD DOCUMENTS	DAY
017900	DEMONSTRATION AND TRAINING	DAY
019113	GENERAL COMMISSIONING REQUIREMENTS	PAE

DIVISION 02	EXISTING CONDITIONS	
024116	STRUCTURE DEMOLITION	BLRB
024119	SELECTIVE DEMOLITION	BLRB
028200	ASBESTOS REMEDIATION	PBS
028300	LEAD REMEDIATION	PBS
028400	ARSENIC REMEDIATION	PBS
028500	PCB AND MERCURY LIGHT TUBE REMEDIATION	PBS
028600	UST REMOVAL AND CLOSURE	PBS
DIVISION 03	CONCRETE	
033000	CAST-IN-PLACE CONCRETE	KPFF
033010	CONCRETE MOISTURE & ALKALINITY CONTROL	BLRB
033543	POLISHED CONCRETE FINISHING	BLRB
034500	PRECAST ARCHITECTURAL CONCRETE	BLRB
035300	CONCRETE TOPPING	BLRB
035416	HYDRAULIC CEMENT UNDERLAYMENT	BLRB
DIVISION 04	MASONRY	
042200	CONCRETE UNIT MASONRY	BLRB
042613	MASONRY VENEER	BLRB
DIVISION 05	METALS	
051200	STRUCTURAL STEEL FRAMING	KPFF
051213	ARCHITECTURAL EXPOSED STRUCTURAL STEEL (AESS)	BLRB
055000	METAL FABRICATIONS	BLRB
055100	METAL STAIRS	BLRB
055133	ALTERNATING TREAD STAIRS	BLRB
055213	PIPE AND TUBE RAILINGS	BLRB
057300	DECORATIVE METAL RAILING SYSTEMS	BLRB
DIVISION 06	WOOD, PLASTICS AND COMPOSITES	
061000	ROUGH CARPENTRY	BLRB
061600	SHEATHING	BLRB
061516	WOOD ROOF DECKING	KPFF
061800	GLUED-LAMINATED CONSTRUCTION	KPFF
062013	EXTERIOR FINISH CARPENTRY	BLRB
062023	INTERIOR FINISH CARPENTRY	BLRB
064113	RECLAIMED WOOD PRODUCTS	BLRB
064200	WOOD PANELING	BLRB
066400	PLASTIC PANELING	BLRB
DIVISION 07	THERMAL AND MOISTURE PROTECTION	
070153	PREPARATION FOR ROOFING	BLRB

071113	BITUMINOUS DAMPPROOFING	BLRB
071326	SELF-ADHERING SHEET WATERPROOFING	BLRB
071900	WATER REPELLENTS	BLRB
072100	THERMAL INSULATION	BLRB
072114	SPRAY-FOAM INSULATION	BLRB
072600	VAPOR RETARDERS	BLRB
072717	VAPOR PERMEABLE SELF-ADHERED AIR BARRIER	BLRB
072737	VAPOR PERMEABLE FLUID-APPLIED MEMBRANE AIR BARRIER	BLRB
072600	VAPOR RETARDERS	BLRB
074113	METAL ROOF PANELS	BLRB
074213	FORMED METAL WALL PANELS	BLRB
074456	FIBER CEMENT PANELS	BLRB
075419	POLYVINYL–CHLORIDE (PVC) ROOFING	BLRB
075563	VEGETATED PROTECTED MEMBRANCE ROOFING	BLRB
076200	SHEET METAL FLASHING AND TRIM	BLRB
077200	ROOF ACCESSORIES	BLRB
077600	ROOF PAVERS	
078413	PENETRATION FIRESTOPPING	BLRB
079200	JOINT SEALANTS	BLRB
079219	ACOUSTICAL JOINT SEALANTS	BLRB
079500	EXPANSION CONTROL	BLRB
079950	COMMISIONING OF THERMAL MOISTURE PROTECTION SYSTEMS	BLRB

DIVISION 08 OPENINGS

081113	HOLLOW METAL DOORS AND FRAMES	BLRB
081416	FLUSH WOOD DOORS	BLRB
081700	INTEGRATED DOOR OPENING ASSEMBLY	BLRB
083113	ACCESS DOORS AND FRAMES	BLRB
083313	COILING COUNTER DOORS	BLRB
083326	OVERHEAD COILING GRILLES	BLRB
083473	SOUND CONTROL DOOR ASSEMBLIES	BLRB
083613	SECTIONAL DOORS	BLRB
084113	ALUMINUM FRAMED ENTRANCES & STOREFRONTS	BLRB
085113	ALUMINUM WINDOWS	BLRB
086200	UNIT SKYLIGHTS	BLRB
086221	TUBULAR SKYLIGHTS	BLRB
087100	FINISH HARDWARE	BLRB
088000	GLAZING	BLRB
088113	FIRE-RESISTANT GLAZING	BLRB
088300	MIRRORS	BLRB
089000	LOUVERS	BLRB

089950	COMMISSIONING OF DOORS AND WINDOWS	BLRB

DIVISION 09 FINISHES

090561	FLOOR PREPARATION	BLRB
092116	GYPSUM BOARD SHAFT WALL ASSEMBLIES	BLRB
092216	NON-STRUCTURAL METAL FRAMING	KPFF
092400	PORTLAND CEMENT PLASTERING	BLRB
092900	GYPSUM BOARD	BLRB
093000	TILING	BLRB
095113	ACOUSTICAL PANEL CEILINGS	BLRB
095426	LINEAR WOOD CEILING	BLRB
096500	RESILIENT FLOORING	BLRB
096513	RESILIENT BASE AND ACCESSORIES	BLRB
096566	RESILIENT ATHLETIC FLOORING	BLRB
096816	CARPETING	BLRB
097200	WALLCOVERINGS	BLRB
097211	DIGITALLY PRINTED WALL COVERINGS	BLRB
097713	STRETCHED FABRIC WALL SYSTEMS	BLRB
098100	ACOUSTIC INSULATION	BLRB
098410	ACOUSTIC WALL AND CEILING PANELS	BLRB
099113	EXTERIOR PAINTING	BLRB
099123	INTERIOR PAINTING	BLRB
099300	STAINING AND TRANSPARENT FINISHING	BLRB
099623	GRAFFITI-RESISTANT COATINGS	BLRB
099646	INTUMESCENT PAINTING	BLRB

DIVISION 10 SPECIALTIES

101100	VISUAL DISPLAY UNITS	BLRB
101200	DISPLAY CASES	BLRB
101400	SIGNAGE	BLRB
101463	ELECTRONIC READERBOARD	BLRB
102113	TOILET COMPARTMENTS	BLRB
102123	CUBICLE CURTAINS AND TRACKS	BLRB
102211	INTERIOR CHAIN LINK FENCES AND GATES	BLRB
102226	FOLDING PANEL PARTITIONS	BLRB
102613	CORNER GUARDS	BLRB
102800	TOILET BATH AND LAUNDRY ACCESSORIES	BLRB
104100	EMERGENCY ACCESS & INFORMATION CABINETS	BLRB
104413	FIRE PROTECTION CABINETS	BLRB
104416	FIRE EXTINGUISHERS	BLRB
105113	METAL LOCKERS	BLRB

105613	METAL STORAGE SHELVING	BLRB
107113	EXTERIOR SUN CONTROL DEVICES	BLRB
107500	FLAGPOLES	BLRB

DIVISION 11 EQUIPMENT

112429	FACILITY FALL PROTECTION	BLRB
113100	RESIDENTIAL APPLIANCES	BLRB
114000	FOOD SERVICE EQUIPMENT	HAL
115000	EDUCATIONAL AND SCIENTIFIC EQUIPMENT	BLRB
115200	AUDIO-VISUAL EQUIPMENT	BLRB
115213	PROJECTOR MOUNT	BLRB
115215	LARGE VENUE PROJECTION SCREENS	BLRB
116143	STAGE CURTAINS	BLRB
116623	GYMNASIUM EQUIPMENT	BLRB
116823	EXTERIOR COURT ATHLETIC EQUIPMENT	BLRB
117000	HEALTHCARE EQUIPMENT (AED CABINETS)	BLRB
111800	SECURITY EQUIPMENT (LIBRARY)	BLRB

DIVISION 12 FURNISHINGS

122113	HORIZONTAL LOUVER BLINDS	BLRB
122413	ROLLER WINDOW SHADES	BLRB
123200	MANUFACTURED WOOD CASEWORK	BLRB
123500	MUSIC STORAGE CASEWORK	BLRB
124800	ENTRANCE FLOORING	BLRB
129300	SITE FURNISHINGS	CM

DIVISION 13 SPECIAL CONSTRUCTION **(NOT USED)**

DIVISION 14 CONVEYING SYSTEMS

142100	GEARLESS TRACTION ELEVATOR	BLRB

DIVISION 21 FIRE SUPPRESSION SPECIFICATIONS

210500	COMMON WORK RESULTS FOR FIRE SUPPRESION SYSTEMS	PAE
211000	WATER BASED FIRE SUPPRESION SYSTEMS	PAE

DIVISION 22 PLUMBING SPECIFICATIONS

220500	COMMON WORK RESULTS FOR PLUMBING	PAE
220518	PLUMBING EXPANSION COMPENSATION	PAE
220519	METERS AND GAUGES FOR PLUMBING	PAE
220523	GENERAL DUTY VALVES AND SPECIALTIES FOR PLUMBING	PAE
220529	HANGERS, SUPPORTS AND ANCHORS FOR PLUMBING	PAE
220548	VIBRATION & SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIP.	PAE
220553	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT	PAE

220590	PRESSURE TESTING FOR PLUMBING SYSTEMS	PAE
220593	TESTING, ADJUSTING, AND BALANCING FOR PLUMBING	PAE
220700	INSULATION FOR PLUMBING	PAE
220800	COMMISSIONING FOR PLUMBING	PAE
221113	PIPE AND PIPE FITTINGS PLUMBING	PAE
222123	PUMPS FOR PLUMBING	PAE
222500	PLUMBING WATER TREATMENT	PAE
223000	PLUMBING EQUIPMENT	PAE
224000	PLUMBING FIXTURES	PAE

DIVISION 23 HEATING, VENTILATING, AND AIR CONDITIONING SPECIFICATIONS

230500	COMMON WORK RESULTS FOR HVAC	PAE
230514	VARIABLE FREQUENCY DRIVES FOR HVAC EQUIPMENT	PAE
230518	HVAC EXPANSION COMPENSATION	PAE
230519	METERS AND GAUGAES FOR HVAC	PAE
230523	GENERAL DUTY VALVES AND SPECIALTIES FOR HVAC	PAE
230529	HANGERS, SUPPORTS, AND ANCHORS FOR HVAC	PAE
230548	VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT	PAE
230553	IDENTIFICATION FOR HVAC PIPING & EQUIPMENT	PAE
230590	PRESSURE TESTING FOR HVAC SYSTEMS	PAE
230593	TESTING, ADJUSTING, AND BALANCING FOR HVAC	PAE
230700	INSULATION FOR HVAC	PAE
230800	COMMISSIONING FOR HVAC	PAE
230900	INSTRUMENTATION AND CONTROLS FOR HVAC	PAE
230993	SEQUENCE OF OPERATIONS FOR HVAC CONTROLS	PAE
232113	PIPE AND PIPE FITTINGS HVAC	PAE
231123	PUMPS FOR HVAC SYSTEMS	PAE
232500	HVAC WATER TREATMENT	PAE
233101	HVAC DUCTS AND CASING-LOW PRESSURE	PAE
233102	HVAC DUCTS AND CASING-MEDIUM PRESSURE	PAE
233300	AIR DUCT ACCESSORIES	PAE
233400	HVAC FANS	PAE
233600	AIR TERMINAL UNITS	PAE
233700	AIR OUTLETS AND INLETS	PAE
234000	HVAC AIR CLEANING DEVICES	PAE
235100	BREECHINGS, CHIMNEYS, AND STACKS	PAE
235200	HEATING BOILERS	PAE
235500	FUEL FIRED HEATERS	PAE
235700	HEAT EXCHANGERS	PAE
237000	CENTRAL HVAC EQUIPMENT	PAE
237200	AIR TO AIR ENERGY RECOVERY UNITS	PAE

238100	DECENTRALIZED UNITARY HVAC	PAE
238200	CONVENCTION HEATING AND COOLING UNITS	PAE
238316	RADIANT-HEATING HYDRONIC PIPING	PAE
238410	ELECTRIC HEATING EQUIPMENT	PAE

DIVISION 26 ELECTRICAL SPECIFICATIONS

260000	ELECTRICAL GENERAL CONDITIONS	PAE
260010	EXCAVATION AND BACKFILL FOR ELECTRICAL UNDERGROUND UTILITIES	PAE
260519	WIRES AND CABLES	PAE
260526	GROUNDING	PAE
260532	OUTLET AND PULL BOXES	PAE
260533	RACEWAY	PAE
260534	METAL CLAD CABLE (TYPE MC) AND FITTINGS	PAE
260539	FLOOR OUTLET DEVICES – FLUSH	PAE
260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS	PAE
260573	ELECTRICAL SYSTEM PROTECTIVE DEVICE STUDY	PAE
260800	COMMISSIONING OF ELECTRICAL SYSTEM	PAE
260943	LOW VOLTAGE LIGHTING CONTROL	PAE
262213	DRY TYPE TRANSFORMERS	PAE
262413	SWITCHBOARDS	PAE
262416	PANELBOARDS	PAE
262419	MOTOR CONTROLLERS	PAE
262726	SWITCHES AND RECEPTACLES	PAE
262813	FUSES	PAE
262816	DISCONNECTS AND FUSED SWITCHES	PAE
263213.13	EMERGENCY GENERATOR	PAE
263623	AUTOMATIC TRANSFER SWITCHES TIME DELAY NEUTRAL	PAE
264300	DEVICE (SPD)	PAE
265000	LIGHTING	PAE
266000.10	COMMONS AND GYM SOUND SYSTEM	PAE

DIVISION 27 COMMUNICATIONS

270000	LOW VOLTAGE SYSTEMS GENERAL REQUIREMENTS	PAE
270528	PATHWAYS FOR COMMUNICATIONS SYSTEMS	PAE
272000	DATA AND VOICE INFRASTRUCTURE	PAE
274113	CLASSROOM AUDIO-VISUAL SYSTEMS	PAE
274116	TELEVISION DISTRIBUTION SYSTEM	PAE
275113	COMMUNICATION/CLOCK/PROGRAM SYSTEM	PAE

DIVISION 28

280800	COMMISSIONING OF ELECTRONIC SAFETY AND SECURITY	PAE

281300	ACCESS CONTROL SYSTEM	PAE
281600	INTRUSION ALARM SYSTEM	PAE
282300	CLOSED CIRCUIT TELEVISION SYSTEM (CCTV)	PAE
283100	FIRE DETECTION AND ALARM	PAE
2832??	EMERGENCY RESPONDERS RADIO ENHANCEMENT SYSTEM	PAE

DIVISION 31 EARTHWORK

311000	SITE CLEARING AND SITE DEMOLITION	HUM
312000	EARTH MOVING	HUM
312113	RADON MITIGATION	BLRB
312333	TRENCHING AND BACKFILL	HUM
312513	EROSION CONTROL	HUM

DIVISION 32 EXTERIOR IMPROVEMENTS

320190	OPERATION AND MAINTENANCE OF LANDSCAPE IMPROVEMENTS	CM
321216	ASPHALT PAVING	HUM
321243	FLEXIBLE POROUS PAVEMENT	HUM
3212??	PAVEMENT MARKINGS	HUM
321313	CONCRETE PAVING	HUM
321726	TACTILE WARNING SURFACES	CM
321816	RECREATIONAL EQUIPMENT	CM
321840	PLAYGROUND SURFACING	CM
321846	INDOOR PLAYGROUND PROTECTIVE SURFACING	CM
323113	CHAIN LINK FENCES AND GATES	CM
323119	DECORATIVE METAL FENCES AND GATES	CM
328000	IRRIGATION	CM
329000	PLANTING	CM
3290??	PERMEABLE CRUSHED ROCK	
329113.19	ROOT ZONE MIX	CM
329200	TURF AND GRASSES	CM
329250	SOIL PREPARATION	CM

DIVISION 33 UTILITIES

331100	FACILITY WATER DISTRIBUTION PIPING	HUM
333000	FACILITY SANITARY SEWERS	HUM
334100	STORM UTILITY DRAINAGE PIPING	HUM
334600	SUBDRAINAGE	HUM

Troutdale Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Landscape Architecture – Outline Specifications

DIVISION 01 – GENERAL REQUIREMENTS

Section 01 56 39 – Temporary Tree and Plant Protection

◊ Defines fencing and practices to protect zones around trees and plant materials to remain.

DIVISION 12 – SITE FURNISHINGS

Section 12 93 00 – Site Furnishings

◊ Applies to benches, planters, trash & recycling receptacles, bicycle racks (steel), bollards (pipe, concrete at drop off, or areas to be determined), and other related equipment the Owner requires to be on the school grounds.

DIVISION 32 – EXTERIOR IMPROVEMENTS

Section 32 18 16 – Recreational Equipment

◊ Describes play equipment products the Owner requests for playgrounds.

Section 32 18 40 – Playground Surfacing

◊ Playground soft surface play areas to be surfaced with engineered wood fiber at a minimum depth of 16” with subgrade drainage.

Section 32 31 13 – Chain Link Fences and Gates

◊ Describes colors, finishes, and heights of chain link fencing and gates on site.

Section 32 80 00 – Irrigation

◊ Describes valves, heads, and all other irrigation components needed to create a fully automatic water efficient system.

Section 32 90 00 – Planting

◊ All disturbed areas shall be planted or seeded.

◊ Planted areas shall be kept properly watered at all times until final acceptance.

◊ Possible species include non-toxic plants, natives, native analogues & drought tolerant plants that do not include berries or thorns.

◊ Provide a (2) year Maintenance Agreement for landscape work starting at final completion. This is separate from the warranty period work.

SCHEMATIC DESIGN

Landscape Architecture – Outline Specifications

- Topsoil for planting beds shall be 18 inch depth.
- Topsoil for lawns shall be 8 inch depth.

Troutdale Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Architectural – Outline Specifications

DIVISION 2 – EXISTING CONDITIONS

Section 02 26 00 – Hazardous Materials Investigation Summary

◊ Inspection report completed by PBS Environmental & Engineering, a consultant of Reynolds School District, of the existing building to determine the presence of asbestos-containing materials (ACM) and as lead-containing paints (LCP). The presence of other hazardous materials are suspected and awaiting confirmation for such items as PCB-containing light ballasts and transformers and mercury-containing fluorescent lamps.

Section 02 30 00 - Subsurface Investigation

◊ GeoDesign, Inc. performed a geotechnical engineering study on the project site to determine the subsurface conditions which may affect the construction of the project. Recommendations include:
- Conventional spread and continuous footings set 18" minimum below final exterior grade
- Slab on grade floors set on granular fill
- Footing drains at the building perimeter
- Underground utility support and backfill
- Pavement profiles

Section 02 41 16 - Structure Demolition

◊ Demolish and remove existing permanent buildings.
◊ Remove below grade construction in specified areas.
◊ Disconnect, cap or seal and remove site utilities, as required.
◊ Salvage items for reuse by Owner or for recycling.

Section 02 41 19 - Selective Structure Demolition

◊ Demolition and removal of selected portions of modular building's foundation.
◊ Remove below grade construction in specified areas.
◊ Disconnect, cap or seal and remove site utilities, as required.

Section 02 82 13 - Asbestos Abatement

◊ Section includes hazardous materials survey report: abate asbestos according to the report.
◊ Remove and dispose of asbestos containing materials (ACM's) from the structures to be demolished.

Section 02 83 13 - Lead Hazard Control Activities

◊ Section includes investigation report of lead hazard control activities.
◊ Handle building components with lead-containing paint from the demolished structures.

Section 02 84 16 – PCB-Related Activities

◊ Section includes investigation report of removal and disposal work related to polychlorinated biphenyl (PCB)-containing light ballasts and electrical transformers.
◊ Remove and dispose of PCB containing equipment from the structures to be demolished.

Section 02 84 17 – Fluorescent Lamp Removal and Disposal

SCHEMATIC DESIGN

Architectural – Outline Specifications

- ◊ Section includes investigation report of removal and disposal work related to the removal and proper recycling/disposal of mercury-containing fluorescent lamps and mercury-containing thermostat bulbs.
- ◊ Remove and recycle mercury-containing lamps and thermostat bulbs from the structures to be demolished.

DIVISION 03 - CONCRETE

Section 03 30 00 – Cast-in-Place Concrete

Quality Assurance

- ◊ Standards
  - ACI 301 "Specifications for Structural Concrete"
  - ACI 318 "Building Code Requirements for Structural Concrete"
- ◊ Testing: Independent testing laboratory, paid for by the owner.
  - Provide minimum of 1 set, (3) cylinder test for each 100 cubic yards of concrete or any lesser proportion poured in any single day or isolated location.
- ◊ Material Standards
  - Steel Reinforcement: ASTM A 615/A 615M, Grade 60
  - Plain-Steel Welded Wire Reinforcement: ASTM A 185/A 185M
  - Portland Cement: ASTM C 150 Type I/II
  - Normal-Weight Aggregates: ASTM C 33, graded
  - Water: ASTM C 94/C 94M
- ◊ Mixtures
  - Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.

Conventional Foundation

- ◊ Continuous footing and foundations under load bearing walls.
- ◊ Spread footings under columns and other concentrated loads.

Typical Floor Slabs

- ◊ Reinforced with #4 bars at 16" o.c. each way. Finished with hard trowel.
- ◊ Typical Floor slab: minimum 4" thick, thickened as required at selected interior walls, floor inserts and depressions.
- ◊ Slope floor to floor drains in areas subject to frequent wetting or maintenance, where practical.
- ◊ Recessed slabs at entrance mats and mud-set ceramic tile floors.
- ◊ Where exposed, provide with clear, penetrating, siliconate type sealer/hardener (i.e., mechanical, electrical, custodial rooms).
- ◊ Seal joints and penetrations on main floor with sealant as part of radon mitigation measures

Second Floor System.

- ◊ 1½"" gypcrete topping over 3/4" plywood.

Mechanical Mezzanine Floor System

- ◊ 3" concrete topping over 3/4 plywood" where indicated.

SCHEMATIC DESIGN

Architectural – Outline Specifications

Under Slab Moisture Vapor Control

◊ Provide moisture barrier of heavy-duty minimum 15 mil polyolefin film geo-membrane with seaming tape.

Concrete Steps

◊ Exterior steps shall be poured-in-place concrete, sloped for drainage.

Concrete Walls

◊ Provide concrete walls with chamfered edges and steel reinforcing.
◊ Retaining walls

Concrete Bench Tops

◊ Provide concrete slab with steel reinforcing.

Waterstops

◊ Provide continuous resinous product designed to prevent passage of water at subgrade joints of concrete footing, foundation walls, and floors.

Section 03 35 17 – Honed Concrete Finishes

◊ Monitor and adjust slab moisture level.
◊ Moisture protection and alkalinity measures to prepare concrete substrates for application of finish flooring under the following finishes:

Section 03 30 10 – Concrete Moisture & Alkalinity Control

◊ Monitor moisture and alkalinity content of concrete substrate to receive moisture-sensitive finish, flooring, or adhesives
◊ Provide topical treatment as needed to provide suitable substrate

Section 03 35 43 – Polished Concrete Finishing

◊ Grind existing concrete floor to a Class B fine aggregate exposure with a Level Two medium gloss finish with a three-step grinding process.
  - Level Two Finish: high gloss finish process by an initial grind with 150 grit metal bonded diamonds, followed by 50 grit resin diamonds, 120 grit resin diamonds, 220 grit resin diamonds, harden/seal agent, and an 400 grit resin diamond final polish.
  - Class B – Fine Aggregate (Salt and Pepper) Finish: 1/16 inch of concrete surface removed by grinding and polishing resulting in majority of exposure displaying fine aggregate with no, or small amount of, medium aggregate at random locations
◊ Standards
  - Concrete Polishing Association of America (CPAA), www.concretepolishingassociation.com
  - ACI 302 1R-89, Guide for Concrete Floor and Slab Construction
◊ Harden/Seal Agent: Retro Plate 99 by Advanced Floor Products, Inc.
◊ Top Seal Agent: heavy-duty concrete stain repellent, RetroPel by Advanced Floor Products

Section 03 53 00 – Concrete Topping

◊ Repair Mortar: Ardex ERM Exterior Ramp Mortar, trowel-grade horizontal concrete repair mortar, Portland cement-based, polymer modified structural repair mortar with integral corrosion inhibitor. Prepare existing concrete floor slab; repair existing cracks and gaps.

◊ Concrete Floor Topping: Ardex LT-65 Lite-Tech lightweight flooring Portland Cement-based topping/fill. Fill recessed floor with lightweight fill in place of existing raised floor system to within ¼" of finished floor.
- Primer: Ardex P-51 Primer, prime prepared concrete surface to receive cement-based topping. Prime topping surface to receive self-leveling underlayment.
- Self-Leveling Concrete Topping: Ardex K-500, 55 lb. bags mixed with water and 20 quarts of expanded polystyrene beads (EPS) per bag.
- Expanded Polystyrene Beads (EPS): 1.0 lb./cu. ft.
- Self-Leveling Underlayment: Ardex K-15 Self-Leveling Underlayment Concrete, Portland cement based.
- Self-Leveling Concrete Topping: Ardex SD-T self-drying, self-leveling, no troweling, Portland cement-based topping for fast track resurfacing, smoothing or leveling of indoor concrete and certain nonporous surfaces. Use as topping for exposed concrete surfaces.

DIVISION 04 - MASONRY

Section 04 22 00 – Concrete Unit Masonry

◊ Concrete masonry units (CMU): medium weight units, running bond pattern.
◊ Ground face, decorative concrete masonry units: at Commons and Lobby consisting of ground face finishes with integral color as scheduled.
◊ Colors selected from manufacturer's full range of colors (standard and premium).
◊ Material Standards
- Concrete Masonry Units:
  - Hollow Load-Bearing Concrete Masonry Units: ASTM C 90, 1900 psi compressive strength, medium weight.
  - Size: Face dimension of 7-5/8 inches high by 15-5/8 inches long by width required for application.
  - Concrete Building Brick: ASTM C 55.
- Mortar and Grout:
  - Mortar Mix: ASTM C 270, Type S, for reinforced masonry, masonry below grade and masonry in contact with earth and ASTM C 270, Type N, for above-grade loadbearing and nonloadbearing walls and parapet walls and for interior loadbearing and nonloadbearing partitions.
  - Mortar Materials: Portland cement, ASTM C 150, Type I or II.
  - Mortar Aggregate: Natural color, ASTM C 144.
  - Grout Aggregate: ASTM C 404.
  - Hydrated Lime: ASTM C 207, Type S.
  - Color: Natural color.
- Reinforcing Steel:
  - Reinforcing Bars: ASTM A 615, Grade 60.
  - Deformed Reinforcing Wire: ASTM A 496.
- Ties and Anchors:
  - Adjustable Masonry Veneer Anchors: Screw-attached two-piece galvanized triangular or rectangular wire tie and metal anchor.

- Screws for Steel Studs: ASTM C 954 stainless steel.

◊ Cavity wall insulation: see Section 07 21 00
◊ Masonry Sills: see Section 04 72 00
◊ Accessories:
- Cellular plastic weep/vents at base and top of wall to facilitate vapor migration away from building.
- Mortar net at base of wall (full height where wall thickness is required to match existing construction).
- Flashing: flexible, rubberized-asphalt with stainless steel mesh
- Nonmetallic expansion joint strips.
- Preformed control joint gaskets.
- Bond breaker strips.

◊ Precast concrete units and inserts: see Section 03 45 00

DIVISION 05 - METALS

Section 05 12 00 - Structural Steel Framing

◊ Comply with AISC specifications for the design, fabrication and erection of structural steel for buildings.
- Wide Flanges: ASTM A992.
- Other Structural Steel Shapes, Plates, and Bars: ASTM A 36.
- Cold-Formed Steel Tubing: ASTM A 500, Grade B.
- Steel Pipe: ASTM A 53, Type E or S, Grade B; or ASTM A 501.
- Headed Stud-Type Shear Connectors: ASTM A 108, Grade 1015 or 1020.
- Anchor Bolts: ASTM F-1554, Grade 36 Class 2A.
- Unfinished Threaded Fasteners: ASTM A 307, Grade A.
- High-Strength Threaded Fasteners: ASTM A 325 or ASTM A 490, as applicable.

◊ Auxiliary Materials:
- Direct Tension Indicators: ASTM A 959.
- Electrodes for Welding: AWS Code.
- Structural Steel Primer Paint: SSPC - Paint 2, red lead-iron oxide, oil alkyd.
- Cement Grout: Portland cement, sand.
- Metallic Shrinkage-Resistant Grout: Premixed ferrous aggregate grouting compound.
- Nonmetallic Shrinkage-Resistant Grout: Premixed nonmetallic grouting compound, CE CRD-C621.

◊ Subgrade protection: Bitumastic treatment to any portion of steel columns, base plates and anchor bolts.
◊ Weather exposed steel fabrications: galvanized G90 coating
◊ Testing: Independent testing laboratory.
◊ Erection Tolerances: AISC standards.

Section 05 21 13 – Architectural Exposed Structural Steel (AESS)

◊ Comply with minimum requirements for Structural Steel Framing
◊ Provide architectural grade fabrication, jointing, and finishing for all exposed steel.

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 05 50 00 - Metal Fabrications

- ◊ Miscellaneous Framing and Supports
  - Fabricate from steel shapes of welded construction
  - Non-Shrink Grout: Non-metallic non-shrink grout used for filling annular space adjacent to structural steel members, mounting plates, floor-mounted devices, and similar voids
- ◊ Interior Ladders
  - Ships ladder for attic access, preassembled, aluminum with 63 degree pitch.
- ◊ Exterior Ladders
  - Extruded aluminum tubes or channels with ribbed tread surfaces.
- ◊ Cast Stair Nosings
  - Interior concrete stairs provided with extruded aluminum tread nosings having an integral abrasive finish.
- ◊ Insect Screen
  - Stainless steel wire soffit vent screen, plain weave, 8 x 8 mesh count, 0..025 wire diameter, 0.100 aperture, 64% open (free) area, T-304 stainless steel per ANSI/ASTM A555-79, by STG Wire, www.wovenwire.com.
- ◊ Anti-Skate Fabrications: see Section 129300

Section 05 52 13 – Metal Stairs

- ◊ Steel framed, infilled treads
- ◊ Infill treads with concrete complying with Division 3 requirements.

Section 05 51 33 – Alternating Tread Stairs

- ◊ Steel or aluminum construction , prefabricated to fit job conditions
- ◊ Locate to serve mechanical rooms and other service spaces

Section 05 52 13 – Pipe and Tube Railings

- ◊ Steel Pipe Railings and Handrails
  - Hand and guardrails to be 1-1/2” outside diameter, stainless steel piping. All exterior rails will be galvanized.

Section 05 73 00 – Decorative Metal Railing Systems

- ◊ Post-supported railings with wire mesh infill.
- ◊ Stainless steel ornamental supports.

DIVISION 06 – WOOD AND PLASTICS

Section 06 10 00 – Rough Carpentry

- ◊ Rough framing of dimensional lumber, plywood, plates, blocking and backing to conform to West Coast Lumber Inspection Bureau standards.
- ◊ Load bearing framing to be Douglas Fir-Larch.
  - Maximum moisture content of lumber is 19 percent

SCHEMATIC DESIGN

Architectural – Outline Specifications

- ◊ Pressure treatment: where wood is in contact with concrete or masonry surfaces.
- ◊ Fire retardant treatment: for use in non-combustible construction.
- ◊ Cementitious Tile Backer Board: 1/2-inch thick cement board for ceramic tile finishes.
- ◊ Engineered Wood Products:
  - Laminated – Veneer Lumber (LVL): Structural composite lumber made from wood veneers with grain parallel to member lengths. ASTM D 5456
  - Wood I-Joists: Prefabricated units, I-shaped in cross section made with LVL flanges and wood-based structural panel webs. ASTM D 5055
  - Wood Open Web Joists: Prefabricated truss units made with LVL flanges and steel tube diagonal web members bolted to flanges

Section 06 16 00 – Sheathing

- ◊ Roof sheathing to be plywood sheathing conforming to DOC PS 1, exterior, structural 1 sheathing.
  - Roof sheathing shall either be blocked, tongue-and-grooved, or use plyclips at all panel edges.
- ◊ Floor sheathing to be plywood sheathing conforming to DCO PS-1, Exterior, Structural 1 sheathing.
  - Floor sheathing shall be field glued to framing.
- ◊ Shear wall wood structural panels shall be plywood conforming to DOC PS-1, Exterior, Structural 1 sheathing.
  - Shear wall sheathing shall be installed either horizontally or vertically and be blocked with 2x framing at all panel edges
- ◊ Water resistant 5/8" gypsum board panels for application to exterior stud framing as a water-resistant membrane. ASTM C 1396 compliant

Section 06 15 16 – Wood Roof Decking

- ◊ Minimum 1-1/2" thick, tongue and groove roof decking
- ◊ Finish installation with clear stain and coatings for weather exposure

Section 06 18 00 Glued-Laminated Construction

- ◊ Glued-laminated (Glulam) members shall be fabricated in conformance with ANSI Standard A190.1, American National Standard for structural glued laminated timber.
  - Combination Symbol: 24F – V4 (DF/DF) for simple spans
  - Combination Symbol: 24F – V8 (DF/DF) for continuous or cantilever spans
  - One coat of end sealer shall be applied immediately after trimming in either the shop or field
- Architectural grade at exposed locations

Section 06 20 23 - Interior Finish Carpentry

- Architectural woodwork: conform to West Coast Lumber Inspection Bureau standards and architectural woodwork quality standards published by the American Woodwork Institute (AWI).
- ◊ Interior standing and running trim: Clear maple, select grade, complying with AWI Section 300.

Section 06 41 13 – Reclaimed Wood Products

- Salvaged wood products from selective building demolition, prior and during demolition.
- Storage and protection of reclaimed materials, maintain wood moisture content for interior materials at 8 to 13 percent.
- Shop Preparation as required to prepare materials for new use.

- Wood materials to be salvaged for reuse include, door trim, window trim, wall trim, casework, wood flooring and structural timbers.

Section 06 42 00 – Wood Paneling

◊ MDF paneling to be painted.
◊ MDO plywood: with paint finish at custodial and select storage rooms

Section 06 64 00 - Plastic Paneling

◊ Fiberglass Reinforced Plastic (FRP) panels: Kemlite, size, 4' x 10', thickness: 0.09 inches, Color: selected from manufacturer's standard colors.

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 07 01 53 – Temporary Roofing

- Self-adhered membrane included as vapor barrier material in PVC roofing, as recommended by roofing system manufacturer as capable of performing as temporary roof.

Section 07 11 13 - Bituminous Dampproofing

- A cold-applied asphalt emulsion dampproofing will be provided on the exterior surface of all exterior concrete foundations and footings not exposed to view (no asbestos laden materials will be allowed).

Section 07 13 26 - Self-Adhering Sheet Waterproofing

- A self-adhering modified bituminous sheet waterproofing system will be provided on the exterior surface of subsurface concrete foundations and footings not exposed to view.
- Drainage Matting: Preformed 10mm thick geo-composite drainage sheet system, comprising a hollow studded polystyrene core, covered on one side with a non-woven, needle punched polypropylene filter fabric and on the other side with a smooth polymeric sheet.

Section 07 19 00 - Water Repellents

- Penetrating water-repellent and anti-graffiti treatments for vertical and horizontal surfaces.
- Clear silane and siloxane blend with 600 g/L or less of VOCs, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control by PROSOCO, Inc. applied to cast concrete, precast concrete, cast stone, CMU, clay brick and natural stone.

Section 07 21 00 - Thermal Insulation

- Perimeter insulation: 2" thick extruded polystyrene provided typical from top of spread footing to top of slab and extending 2' under slab on grade, typical at all exterior walls.
- Exterior wall insulation: 3" thick continuous extruded polystyrene.
- Sound attenuation insulation: minimum 3-1/2" blankets at interior framed walls.
- Semi-rigid acoustical insulation: glass fibers faced with black mat, 3" thick at back wall behind telescoping bleachers and 2" at perforated panels.
- Concealed roof deck vapor barrier: 2 layer polyethylene film laminated to an inner reinforcing layer of nylon or polyester.
- Low-slope and vegetated-protected roof: As indicated in each section.

- Vapor Retarder:
  - CertainTeed, MemBrain permeable vapor retarder for use on the inside face of batt insulated walls.
  - Reinforced-Polyethylene Vapor Retarder with 2 outer layers of polyethylene film laminated to an inner reinforcing layer consisting of either nylon cord or polyester scrim at roofs under SBS modified bitumen roof membrane.

Section 07 21 14 – Spray-Foam Insulation
- Closed Cell Spray polyurethane foam insulation.
  - ASTM C 1029, Type II, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84
  - Minimum density of 2.0 lb/cu. ft. spray foam, Closed Cell foam
  - Thermal resistance: ASTM C518, 75 deg. mean temperature R-value per inch: minimum R-6.4 (Aged 90 days).
  - Dow Styrofoam Brand Insulation Spray Polyurethane foam Insulation- CM 2045, BASF Corporation- "Walltite", or Demilec "Heatlok Soy 200".

Section 07 26 00 - Vapor Retarders
- Wall Vapor Retarder:
  - CertainTeed, MemBrain permeable vapor retarder for use on the inside face of batt insulated walls.
  - Reinforced-Polyethylene Vapor Retarder with 2 outer layers of polyethylene film laminated to an inner reinforcing layer consisting of either nylon cord or polyester scrim at roofs under SBS modified bitumen roof membrane.

Section 07 27 13 – Vapor Permeable Self-Adhered Air Barrier
- Sheet Air Barrier: Non-permeable, bituminous, self-adhering sheet membrane installed over exterior wall sheathing where rigid insulation is installed outside of exterior wall sheathing on framed walls.
- Type A (adhered) as manufactured by Carlisle (CCW-705), WR Grace (Perm-a-Barrier), and Henry Co. (Blueskin SA).

Section 07 27 26 – Vapor Permeable Fluid Applied Membrane Air Barriers
- Fluid-applied (spray-on) membrane air barrier, vapor retarding: synthetic polymer membrane (non-permeable) continuous air barrier and liquid water drainage plane flashed to discharge to exterior incidental condensation or water penetration. Used where rigid insulation is installed on structural masonry.
- Type S (spray-on) as manufactured by WR Grace (Perm-a-Barrier Liquid), Henry Co. (Air-Bloc), and Rubber Polymer Corp. (Rub-R-Wall Airtight).

Section 07 41 00 – Metal Roof Panels
- Metal panels: for canopies.
- 20 gauge sheet steel, lap-seam and concealed-fasteners
- Restricted flatness steel sheet coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.

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- Exterior Finish: Kynar 500, 3-coat fluoropolymer

Section 07 42 13 - Metal Wall Panels
- Metal wall panels: for walls and soffits.
- 20 gauge sheet steel, lap-seam and concealed-fasteners
  - Wall: Flex Series by AEP Span, 1.2FX10-12, 2" profile, 12" panel width.
  - Soffit: Prestige Series by AEP Span, 12" panel width.
- Restricted flatness steel sheet coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
- Exterior Finish: Kynar 500, 3-coat fluoropolymer

Section 07 42 13 – Fiber Cement Panels
- Soffit panels: Vented, smooth-faced cement fiber reinforced panels designed for exterior use.
- Minimum thickness: .25"
- Span rating: 24" o.c.

Section 07 54 19 – Polyvinyl-Chloride Styrene (PVC) Roofing
- Roofing Membrane Assembly: A fully-adhered roof membrane assembly consisting of one (1) ply polyvinyl-chloride sheet base. Roof ply shall be minimum 60-mil thickness with a white surface.
  - Walkways: factory-formed product matching roof membrane with slip-resistant surface.
  - Cover board: ¼" glass-mat, water resistant substrate acceptable to roof manufacturer.
  - Roof Insulation Board: 6" closed-cell polyisocayanurate set in minimum of two staggered layers, minimum "R" value 38.0, mechanically fastened and adhered as recommended by roof manufacturer.
  - Tapered Roof Insulation Board: Factory tapered boards with minimum slope of ¼" per foot.
  - Substrate Board: ¼" glass-mat, water resistant substrate acceptable to roof manufacturer.
  - Vapor Retarder: 32-mil self-adhesive, SBS modified bitumen construction. overlapped and taped seams, or as recommended by roofing manufacturer.

Section 07 55 63 – Vegetated Protected Membrane Roofing
- Roofing Membrane Assembly: A fully-integrated roof assembly consisting of single-ply roof system as the following components:
  - Pavers: Per Section 077600, Roof Pavers
  - Vegetation: Extensive or intensive per landscape requirements.
  - Growth Medium: capable of supporting specified landscape material.
  - Drainage Composite: Profiled assembly consisting of raised members providing support for top membrane layer
  - Roof Membrane: Sarnafil G476 SA, self-adhered membrane manufactured for use in green roof system
  - Separation Layer: As recommended by this roof system manufacturer.
  - Cover board: ¼" glass-mat, water resistant gypsum substrate acceptable to roof manufacturer.
  - Roof Insulation Board: 6" extruded polystyrene set in minimum of two staggered layers, minimum "R" value 38.0, mechanically fastened and adhered as recommended by roof manufacturer.

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- Tapered Roof Insulation Board: Factory-tapered boards with minimum slope of ¼" per foot to facilitate drainage (e.g., crickets)
- Substrate Board: ¼" glass-mat, water resistant gypsum substrate acceptable to roof manufacturer.
- Vapor Retarder: 32-mil self-adhesive, SBS modified bitumen construction. overlapped and taped seams, or as recommended by roofing manufacturer.

Section 07 62 00 - Sheet Metal Flashing and Trim

- General: field-formed and fabricated metal assemblies and exposed anchor systems with fluoropolymer finish
- Hanging gutters: 22 gauge galvanized steel with .188-inch brackets; installation similar to SMACNA Plate #20.
- Downspouts: Mill finish aluminum tube and bracket downspout assembly at view locations, ABS schedule 40, 4" diameter plastic pipe, painted finish at other exterior locations; cast iron at interior downspouts.
- Parapet Scuppers: fabricated from aluminum-zinc-alloy-coated steel, .0253-inch thick, equipped with gravel guards.
- Conductor Heads: fabricated from aluminum-zinc-alloy-coated steel, .0253-inch thick, equipped built-in overflows
- Splash Pan: fabricated from .040-inch thick aluminum.
- Roof Fabrications: aluminum-zinc-alloy-coated steel, varying thicknesses for roof-wall transitions, base flashing, counter flashing, roof penetration flashing, and roof drain flashing.
- Through wall sheet flashings: .0312-inch thick stainless steel continuous flashings for use under copings and shelf angles.
- Opening flashings: 0.0253-inch zinc-aluminum alloy-coated steel for use around wall openings, with end dams where discontinuous.
- Roof Edge Flashing: two-piece, roof edge fascia of snap-on metal; fascia cover over continuous anchor bar with integral drip edge cleat to engage fascia cover.
- Counterflashings and reglets: Manufactured units formed to provide secure interlocking of separate pieces, factory-mitered and welded corners and junctions

Section 07 72 00 - Roof Accessories

- General: Corrosion-resistant metals of steel or aluminum
- Roof Curbs and equipment supports: insulated, and internally reinforced as required for load conditions, welded corner units, with integral formed mounting flange at perimeter bottom, 12" high above roof surface
- Roof Hatch: one-hand operation, galvanized steel construction, 14 gauge, insulated curb and cover, 12" tall curb, 36" x 30", with telescoping safety post, by Bilco, or equal.
- Preformed flashings: for vent stack or roof-anchored penetrations, metal flashing sleeve with integral deck flashing, extended to 12" above roof surface

Section 07 76 00 – Roof Pavers

- General: Precast concrete pavers with the following minimum characteristics:
  - Size: 24" x 24", nominal
  - Compressive strength: 8,500 psi

- Flexural Strength: 1,100 psi
- Water Absorption: less that 5%.
- Density: 155 lbs./cubit foot

- Pedestals: 3/8" high EPDM pedestal system, as recommended by paver manufacturer.

Section 07 84 13 - Penetration Firestopping

- Firestop systems for penetrations through fire-resistance-rated constructions, including both empty openings and openings containing penetrating items.
- Smoke sealant as required to meet code requirements for applications to seal top of wall and through-penetrations.

Section 07 92 00 - Joint Sealants

- General: elastomeric sealants to establish and maintain water, smoke, and air tight continuous joint seals without staining or deteriorating joint substrates.
  - Interior Surfaces inside weatherproofing system: Low VOC
  - Provide joint sealers at such areas as pavement and sidewalk joints, flashing and coping joints, masonry expansion/contraction construction joints, floor joints (interior), wall joints (exterior and exterior), interior wall/ceiling joints.

Section 07 92 19 - Acoustical Joint Sealers

- General: elastomeric sealants to establish and maintain sound tight continuous joint seals without staining or deteriorating joint substrates.
  - Interior Surfaces inside weatherproofing system: Low VOC
  - Provide joint sealers at such areas as classroom walls, partitions systems to receive sound batt insulation, perimeter joints at metal frames, mechanical and electrical rooms adjacent to corridors and classrooms.

Section 07 95 00 – Expansion Control

- Exterior wall and roof expansion control systems with -25%/+75% expansion range
  - Aluminum covers with anodized finish
  - Neoprene membrane seals
  - Cellular foam insulation
  - Inside and outside corners

Section 07 99 50 – Commissioning of Thermal Moisture Protection Systems

- Per Owner's protocol and minimum code requirements
  - 2014 Oregon Structural Specialty Code

DIVISION 08 – DOORS AND WINDOWS

Section 08 11 13 - Hollow Metal Doors and Frames

- Doors, frames and relites will be hollow metal construction with flush face joints, reinforced for heavy-duty operational conditions, and anchored to floors and walls.
  - Exterior doors, other than aluminum entrances, to be manufactured from 0.053 inch thick metallic-coated steel, thermally insulated, and with vertical reinforcement to prevent distortion
  - Interior doors manufactured from 0.042 inch thick cold-rolled steel fire rated as applicable.

- Frames to be manufactured from 0.053 inch thick steel, with coating to match door.
- Glazed lites: factory cut openings with stops located to prevent unauthorized removal from exterior of secured location.

Section 08 14 16 - Flush Wood Doors

- All interior doors will be solid staved core wood doors with a plain sliced red oak veneer, custom grade face, constructed of recycled and low-emitting materials, factory pre-finished with premium grade finish.
  - All doors will be 1-3/4" thick, solid laminated core, particle board PC-5 or PC-7, except mineral core where required for fire rating.
  - Life of installation warranty will be required for all doors.

Section 08 31 13 - Access Doors and Frames

- All access doors for mechanical and electrical systems will be galvanized metal, and fire rated where required, and lockable. Frames will be flange-type.

Section 08 33 13 - Overhead Coiling Door

- Overhead coiling service door, motorized, stainless steel slats, guides and hood, lockable (kitchen serving lines), Cookson Type CD10-2M, or equal.
- Overhead coiling counter door, motorized operation, stainless steel slats, guides and hood, lockable (kitchen scullery), Cookson Type CD10-2M, or equal.

Section 08 33 26 - Overhead Coiling Grille

- Overhead coiling grille, push-up operation, aluminum, anodized finish, aluminum hood, lockable (Instrument Rehearsal Room, keyboard storage).

Section 08 41 13 – Aluminum-Framed Entrances and Storefronts

- Exterior Storefront:
  - Design based on EFCO Series 960.
  - Storefront framing to be 2-1/2" x 5" extruded-aluminum thermally broken curtain wall system constructed of not less than 0.062" aluminum thickness at any location for main frame and sash members; clear anodized finish.
  - Entrance frames adjacent to doors to be heavy-wall type of not less than 3/16" thick wall construction. Provide non-removable stops on exterior.
  - Entrance doors to be heavy-wall type of not less than 3/16" thick wall construction.
- Interior Storefront : Design based on EFCO Series 401
- Insulated Infill Panel: 1" thick insulated panel with aluminum factory finish set in glazing channel of aluminum storefront system. Panel consists of 1/8" aluminum plate each side reinforced with 1/8" fiber cement board behind plate over 5/8" polystyrene insulation sandwiched in the midsection of the panel, anodized finish on aluminum panel.

Section 08 51 13 – Aluminum Windows

- Exterior windows: aluminum architectural windows based on EFCO 2900 Series
  - 4 1⁄2" heavy commercial Window with vertical or horizontal stacking members
  - AAMA Heavy Commercial and Architectural Grade rating

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- Thermally broken and constructed of not less than 0.062" aluminum thickness at any location for main frame and sash members; Kynar finish; custom color
- All windows will be fixed
- Windows shall be factory glazed with insulated units.
- Tempered glazing at Connections 1 classroom windows

Section 08 62 00 – Unit Skylights

- Frame: aluminum frame members, channels and caps with condensation resistance factor (CRF) of 53 or better.
- Finish: clear anodized
- Tested according to AAMA-501.1 under dynamic pressure
- Glazing:
  - Light Transmittance: greater than 0.50
  - Thermal Transmittance (U-Factor): not more than 0.65 Btu/sq.ft.
  - Solar Heat Gain Coefficient: not greater than 0.7

Section 08 62 21 – Tubular Skylights

- Curb/frame: aluminum frame members, channels and caps with condensation resistance factor (CRF) of 53 or better.
- Finish: clear anodized
- Tested according to AAMA-501.1 under dynamic pressure
- Construction:
  - Glazing Light Transmittance: greater than 0.50
  - Thermal Transmittance (U-Factor): not more than 0.65 Btu/sq.ft.
  - Solar Heat Gain Coefficient: not greater than 0.7
  - Dome top, per manufacturer's standard
  - Reflector tubing
  - Interior Diffuser

Section 08 71 00 - Finish Hardware

- All hardware to be of heavy-duty commercial grade construction, meeting District standards and past practices.
- All hardware to be in compliance with life safety code NFPA 101 (1981); ICC/ANSI A117.1, 2009; and the Americans with Disabilities Act (ADA) Accessibility Guidelines for Building and Facilities.
- All fire rated openings will be in compliance with the NFPA Standard No. 80, 1983.
- Finish: The finish of hardware in general will be integrated into the interior color scheme.
- Locksets and panic devices will be by Sargent Manufacturing Company.
- Locks: All locks shall be mortise type with lever handles using the return end design for handicap requirements, cores by Schlage.
- Hinges: All exterior doors will receive extra heavy weight, non-ferrous hinges. Interior doors to receive three weight bearing regular weight hinges. Size according to door size and weight.
- Door closers: Norton, fully adjustable for spring power and contain separate key valves for speed, latching and back check adjustments. Closers for wood doors to be installed with through bolts.

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- Kick plates: Kick plates to be installed on all self-closing doors. Plates to be 10" high and mop plate 4" high. Kick plates to be made of plastic laminate 1/8" thick and beveled on sides. Color as selected by architect.
- Door stops: Wall bumpers to be used where possible. Floor type stop only to be used where necessary. Exterior doors shall receive pipe type stops unless conflicting with foot traffic.
- Weather-stripping: All exterior doors provided with aluminum thresholds, door sweeps and weather-stripping.
- Interior doors in smoke-resistive construction to receive smoke gasketing.
- Miscellaneous: Provide one key control cabinet capable of storing 120% of keys actually used.
- Keying: Match School District system. District standard keyway "H."
- Provide four (4) keys per room.
- Magnetic hold-opens at Corridor doors and additional locations to be determined.
- Blocking in wall at magnetic door hold-open and wall stops. Material: metal, continuous support by two (2) wall framing members.
- Electric operating locks: Building-wide centrally controlled system to enable locking of exterior doors simultaneously, integrated with card access and security system.

<u>Section 08 80 00 - Glazing</u>

- Interior Glazing:
  - Typical: 6 mm (¼") thick annealed glass, clear.
  - Butt glazing: 12 mm (½") thick annealed glass, clear.
  - Safety: ¼" tempered in locations where required by code.
  - High-impact athletic areas: ½" fully tempered safety glass
  - High security or abuse potential: 2 layers tempered, laminated, 12mm overall thickness, 0.030" interlayer
  - Acoustical: 2 layers tempered, laminated, 12 mm overall thickness, 0.060" interlayer
  - Glazed sectional doors: 2 layers tempered, laminated, 7mm overall thickness, 0.030" interlayer with low-e coating.
- Interior Glazing Channel: satin anodized U-channel 1" deep at sill and jamb, 1-1/2" deep at head with roll-in glazing gasket, by C. R. Laurence Company
- Exterior Glazing:
  - Typical: insulated units using 1/4" glass sheets hermetically sealed around argon gas core, low-e coating, tinted or clear depending on solar orientation, tempered in locations where required by code.
  - High performance glazing: High light transmittance and low solar heat gain coefficient glass at exposed south and west wall locations. Basis of design: Guardian Industries SN68
    - Visible Light Transmittance: 68
    - Winter Nighttime U-Value: 0.29
    - Summer Daytime U-Value: 0.28
    - Solar Heat Gain Coefficient: 0.38
    - Doors and Entry Glass: Tempered and laminated insulated glazing at exterior conditions and clear tempered at interior.
- Skylight Glazing: insulated unit with 6mm tempered outer layer, 12mm air space, 12mm laminated interior panel with a diffused white pvb interlayer, low-e coating on #2 surface, Guardian SunGuard

SuperNeutral SN54 on clear glass, 60% transmittance, 0.29 U-factor, 0.34 SHGC (solar heat gain coefficient).

- Safety & Security Film: Basis of design product 3M Scotchshield Safety & Security window film Ultra Series "Ultra S800" shall be installed in the following typical locations;
  - Main entry doors and windows into front office and entry corridor
  - Any other entry doors with glass
  - Any "direct path" windows from parking lots or areas of concealment
  - Windows into areas with high volumes of occupancy; ie cafeteria
  - Any exposed or high profile personnel

Section 08 83 00 – Mirrors

- Mirror, Abuse-Resistant: 1/4" thick, safety Type I, Class I glazing mounted to wall with a tamper-resistant method.
  - Aluminum edge molding, mill finish.

Section 08 90 00 – Louvers

- Fixed, extruded-aluminum louver of heavy-duty (0.080" thickness) horizontal drainable blade construction, with high performance organic coating, equipped with insect screening and 1-inch insulated blank off panels as required.

DIVISION 09 - FINISHES

Section 09 05 61 – Floor Preparation

- Moisture protection and alkalinity measures to prepare concrete substrates for application of finish flooring under the following finishes:
- Strip foreign material and contaminants that will prevent adhesive bond.
- Monitor and adjust slab moisture level.
- Apply primer pretreatment.

Section 09 21 16 – Gypsum Board Shaft Wall Assemblies

- Interior steel framing and suspension systems for elevator shaftway

Section 09 22 16 – Non-Structural Metal Framing

- Interior steel framing and suspension systems for all supports for walls/ceilings, soffit framing and furring.
- Steel studs and runners to be standard profile, minimum 25 gauge, with allowable unsupported height as recommended by manufacturer.
- Special conditions will be accommodated at door and window openings, mechanical ducts soffits, slip-type conditions, firestopping, and resilient or 'z' channels.

Section 09 29 00 – Gypsum Board

- General: 5/8" thick, Type "X", typical at interior stud walls/soffits:
- Gypsum wallboard (ASTM C36).
- Abuse Resistant locations: Abuse-resistant gypsum wallboard.
- Wet locations: Moisture and mold resistant gypsum wallboard.

- Exterior Soffits: Exterior gypsum soffit board (ASTM C931c or M).

Section 09 30 00 - Tiling
- Public and Staff Restrooms
  - Floors: Unglazed Ceramic Mosaic Tile, 2" x 2", 1/4" thick, thinset,
  - Walls: Glazed Ceramic Tile 4 1/4" x 4-1/4", 5/16" thick, thinset
- Waterproofing:
  - Floors and shower walls: fabric-reinforced, fluid-applied waterproofing membrane
- Setting Materials:
  - Latex-modified dry-set mortar, non-sagging at walls,
  - Polymer-modified tile grout
  - Silicone grout sealer
- Accessories:
  - Thresholds: marble, beveled edges

Section 09 64 66 – Wood Athletic Flooring
- Wood athletic flooring system tested by a qualified testing agency according to DIN V 18032-2 and shown to meet the following requirements:
  - Minimum shock absorption: 53 percent
  - Minimum vertical deflection: 0.09 inch
  - Maximum area of deflection: 15 percent
  - Minimum ball bounce: 90 percent
  - Range of Surface Friction: 0.5 to 0.7
- Floating floor system, 2.5" thick, of random-length northern hard maple flooring over 2-layer plywood subfloor panels on resilient pads over underlayment vapor retarder. Exposed floor shall be 25/32" thick MFMA-RL Second or better grade, 2-1/4" face width. Subfloor shall be APA rated, C-D plugged, 15/32" thick. Resilient pads per flooring manufacturer to provide DIN rating specified intended for use for basketball and volleyball. SAFE Panel 2 Floor™ by Horner Flooring Co., Inc.
- Floor finish system shall be low VOC:
  - Floor sealer: MFMA oil-based Group 1 Sealer (Hillyard 350 Wood seal)
  - Finish Coats: MFMA Group 3 Finish (Hillyard Solvent-Based 450 Gym Finish System)
  - Game Line and Marker Paint: Compatible with finish coats (Hillyard's Contender, water-based)
- Resilient base shall be molder, vented; 4" high by 3" deep.
- Perform the following moisture testing to demonstrate compliance with flooring system manufacturer and the following maximum requirements:
  - ASTM F1869 anhydrous calcium chloride test vapor emission rate: 3 lb. of water/1000 sq. ft. in 24 hours
  - ASTM F2170 relative humidity level measurement: 75 percent

Section 09 51 13 - Acoustical Panel Ceilings
- Acoustical Ceiling Panels for general areas: mineral composition ceiling panel with impact/abrasion resistant surface and antimicrobial fungicide and bacteria treatment, 24" x 48", ¾" thick, square edge, high humidity type, unless noted otherwise.

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- Perforated Metal Ceiling Panels for music areas: 2' x 2', formed in 3-D patterns to set in exposed suspension grid, colors in Flat White or Silver Satin; solid metal and perforated with sound - absorbent fabric layer backer, GEOMETRIX™ by Armstrong.
  - Sound-Absorbent Fabric Layer, black, nonwoven, nonflammable, sound-absorbent material meets flamespread index of 25 or less and smoke-developed index of 50 per ASTM E 84.
- Acoustical Ceiling Panels for kitchen areas: USG, Clean Room Clima Plus (3220 and 3230), lay in panels, USDA approved, non-perforated, washable, non-vinyl face, gypsum panel substrate; LR 1 (0.85); CAC 35/40, square edge, white, 24" x 48" x 1/2".
- Suspension System: Direct hung, metal suspension system with seismic and hold-down clips, 9/16" or 15/16" grid, heavy duty grade, painted white.

Section 09 54 26 – Linear Wood Ceiling
- Solid wood strip ceiling, 5¼" wide x ¾" thick, ¾" reveals between strips, mounted on ceiling suspension system, stain and clear semi-gloss finish on wood.
- Wood species: Western Red Cedar at exterior; Pine, fir or Hemlock at interior stained to match.
- Suspension System: factory finished black, with seismic struts, and anchors; black felt between strips at interior and bug screen at exterior.
- Manufacturer: Rulon Company, 9wood

Section 09 65 13 – Resilient Base and Accessories
- Wall base: Vulcanized rubber thermoset, with matching end stops and pre-formed corner units, 4" height typical, 1/8" gauge thickness, standard top set cove matte finish.
- Adhesive: water-based, low emitting interior material.
- Transition strips for various flooring materials, as required.

Section 09 65 16 - Resilient Sheet Flooring
- Sheet Rubber Flooring: Environcare by Nora Systems, Inc. in the health room.
- Sheet Rubber Flooring: Advance by Mondo, in Gym

Section 09 65 17 - Linoleum Flooring
- Linoleum Tiles: 18" x 18", 2.5 mm thick, linoleum sheet with fibrous backing, Forbo, Marmoleum, or equal. Tiles used for ease of replacement.
- Linoleum Sheet: in 78-inch rolls
- Heat welded seams
- Cove base: integral base with metal cap in wet areas
- Floor polish: protective liquid floor polish, two coats.

Section 09 68 16 - Carpeting
- Carpet Tile: CF Antron nylon fiber carpet with a fused, close-cell, vinyl cushion backing, Collins & Aikman, Crayon.
- Transitions: metal and rubber transitions to adjacent flooring materials.

Section 09 72 00 – Wallcoverings
- Vinyl Wallcovering: RJF International - Koroseal - "Interweave"
  - Total Weight Excluding Coatings: 18.07 oz./sq/yd.: vinyl weight 28 oz./lin. yd.

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- Perforated Vinyl Wallcovering: RJF International - Microvented Wallcovering - Koroseal - "Interweave"

Section 09 72 11 – Digitally Printed Wallcoverings
- Vinyl Wallcovering: RJF International - Koroseal - "Interweave"
  - Total Weight Excluding Coatings: 18.07 oz./sq/yd.: vinyl weight 28 oz./lin. yd.
- Graphics: Manufacturer's applied graphic imaging process

Section 09 77 13 – Stretched Fabric Wall Systems
- Acoustical Wall Treatment (AWT): System consists of site installed and fabricated, concealed framing system with stretched fabric over acoustical batt absorption core.
- Frame System: Extruded plastic polymer; designed to friction fit and hold fabric in place by tucking fabric into a slot in a profiled track
- Standard Acoustical Core: 1 inch (25 mm) polyester or fiberglass batt, not less than NRC 0.80.
- Facing Material: plain weave, non-directional, woven polyester, by Guilford of Maine.

Section 09 84 13 – Fixed Sound-Absorptive Panels
- Concealed-mount acoustical wall panels: Prefabricated units, 48" wide, factory finished, with perforated corrugated metal facing fastened to 2" wide perimeter channel frame with glass-fiber board core.
- Acoustical Wall Panels (AWP): Fabric wrapped panels over a 6-7 pcf compressed fiberglass core, 2-inches thick, tackable, formaldehyde-free, 60% recycled product, cloth or vinyl fabric finish adhered to polyester backing, LBI/Boyd, Ecocore. Single panels available up to 49" x 97".
- High Impact Acoustical Wall Panels (HIP): Impact resistant 0.063" (1/16") perforated thermoplastic sheet adhered to 1-7/8" thick, dual density fiberglass core, fiberglass facing, 4' X 8' and 4' X 4' sizes, Impact+Plus, Quiet Coordinates by CMA.

Section 09 91 13 – Exterior Painting
- General: 3 coat premium grade system consisting of primer, intermediate coat, and topcoat. All low-emitting materials.
- High contact metal surfaces (doors, frames, hand railings, bollards): Low VOC acrylic polyurethane primer plus acrylic polyurethane topcoats)
- Low contact metal surfaces (overhead conduits, steel, steel decking, canopies, flashing): Low VOC latex primer plus exterior latex topcoats)

Section 09 91 23 – Interior Painting
- General: 3 coat premium grade system consisting of primer, intermediate coat, and topcoat. All low-emitting materials.
- Typical Interior CMU Walls: Block filler/primer, interior latex, semigloss finish
- Epoxy system for CMU walls: Block filler/primer, two component, water-based epoxy, semigloss finish
- Gypsum board surfaces: latex primer, interior latex, eggshell finish.
- Plaster surfaces: Interior alkyd primer, interior latex, semigloss finsh.
- Insulation covered substrates: (pipe, duct coverings), latex primer/sealer, interior latex, eggshell finish.

Section 09 93 00 – Staining and Transparent Finishing

- Finish carpentry/interior wood trim: Semi-transparent stain with 3 coats of clear polyurethane (semi-gloss).
- Wood panel-product substrates: Semi-transparent stain with 3 coats of clear polyurethane (semi-gloss).

Section 09 96 23 – Graffiti Resistant Coatings

- General: Clear-drying, water based silicone emulsion, breathable coating which resists staining of protected surface. Provide graffiti remover for owners use.
- Exterior wall surfaces up to 10' height above grade on all exposed masonry and concrete.
- Interior Ground Face CMU: Full height on all exposed surfaces.

DIVISION 10 - SPECIALTIES

Section 10 10 00 – Visual Display Surfaces

- Markerboards: wall-mounted composition panel with perimeter frame for use with felt tip liquid markers, steel sheet faced with porcelain enamel fused, matte finish. Includes marker trays, map rails, map hooks, and flag pole holders.
- Tackboards: wall-mounted, vinyl fabric faced cork sheet with fiberboard backing and frame.
- Visual display rails: narrow rail shape with cork fabric
- Tack Surfaces: vinyl impregnated cork, ¼" thick, Bulletin Board by Forbo
- Sharewall: full-wall dry erase magnetic whiteboard and projection surface.

Section 10 12 00 - Display Cases

- General: Factory-fabricated cabinet with visual display surface background and adjustable tempered glass shelves, 24" deep, built-in to wall/soffit construction.
- Entry lobby units: hinged glass doors with heavy-duty locks at front with perimeter face trim, vinyl faced tackboard assembly on back inside surface, maple veneer plywood cabinet box, tempered glass shelves, with concealed top-lighting system.
- Prefabricated units with aluminum hinged frames, 36"w x 48"h, glass shelves, by Claridge.
- Glass Showcase Hardware: Sugatsune XL-GC Series hinges and locks for custom fabricated hinged doors.

Section 10 14 00 - Signage

- General: ADA compliant system (tactile text with braille), with tamper-resistant anchorage.
- Specialty signs to include the following:
  - Exterior signs to include the following:
    - post and panel directional signs
    - entry plaque
    - accessible routes/entrances
    - dimensional letters, per elevations
  - Interior signs to include the following:
    - primary room plaques-room name and number
    - secondary room plaques- room name and number
    - restroom plaques-gender symbol, tactile name
    - maximum occupancy plaque

- o dimensional letters
- o building plaque-institutional quality, cast bronze recognition plaque
- o Slotted Panel Display Sign with aluminum tracks for holding heavy card paper or plastic sheet signs, 32"h X 60"w, divided into (5) 12"sections.

Section 10 14 63 – Electronic Readerboard

- General: LED illuminated readerboard displaying text and graphics 19.8 mm pixel pitch; Two-view display configuration, approx. size of 3'-8" high x 9'-5" wide, monochrome graphics
- Signs to include the following:
  - Pedestal Mount: 10' High, metal frame structure with sheet metal enclosure

Section 10 21 13 - Toilet Compartments

- Toilet partitions: high-pressure plastic laminate (.062") finish with a phenolic core; floor anchored, overhead braced, with in-swing doors for non-accessible units, out-swing doors for accessible units. Standard-height doors.
- Shower partitions: High-pressure plastic laminate (.082) finish with phenolic core; floor anchored, overhead braced.
- Wall Brackets: heavy duty hardware.
- Accessories: equipped with privacy latch, door pull, coat hook, and door bumpers.

Section 10 21 23 – Cubicle Curtains and Tracks

- Curtain tracks and carriers: extruded aluminum track with nylon glide with hooks.
- Training room curtain: antimicrobial polyester.
- Track: ceiling-mounted, stainless steel

Section 10 22 11 – Interior Chain Link Fences and Gates

- Chain link partitioning and gate system used to subdivide storage areas and to provide security.

Section 10 22 26 – Folding Panel Partitions

- Operable, acoustical panel partition, with 16 gauge steel frame and face sheet, by Advanced Equipment Corp., Model 5MS12S11, ALPHA 'S' panel, 3-1/2" thick, type #1 track
- Sound transmission: STC 53, with bottom rubber seal.
- vinyl wall cover finish to match room finish, wall carpet above 7' AFF
- Manually-operated, single units at Stage
- Markerboards on stage side, 4'h x 16'w, 8'w with staff lines.
- Electrically-operated, continuous assembly at Gym-Commons opening

Section 10 26 00 – Corner Guards

- Corner Guards, PVC: Vertical, surface-mounted, textured, opaque-plastic, fabricated from high-impact PVC plastic, acrylic-modified vinyl sheet; with formed edges, 2" leg.
- Corner Guards, Stainless Steel: Vertical, surface-mounted, 16 gauge, #304 stainless steel, #4 stain finish, 2" leg, applied with screws.

Section 10 28 00 - Toilet, Bath, and Laundry Accessories

SCHEMATIC DESIGN

Architectural – Outline Specifications

- General: Stainless steel prefabricated units with accessibility features and vandal-resistant where required. Contractor to install all items, and provide all items not otherwise provided by Owner.
- Owner furnished/contractor installed items:
  - toilet tissue (2 roll) dispenser
  - paper towel (roll) dispenser
  - liquid soap dispenser
  - sanitary napkin dispenser, napkin/tampon vending machine, 15 napkins/25 tampons
  - sanitary napkin disposal unit
  - seat cover dispenser: 250 cover capacity
- Contractor furnished/contractor installed items:
  - grab bar: 1-1/2" O.D., slip-resistant texture in grip area, flange-mounted, Bobrick B-5806.
  - framed mirrors (glass), Bobrick B-290, 48" x 36" at student toilets (changed from 24" x 36"), 18" x 36" at staff toilets

Section 10 28 00 - Toilet, Bath, and Laundry Accessories (continued)

- heavy-duty shower curtain rod, Bobrick B-207.
- shower curtains/hooks, Bobrick 204-1 curtain hook.
- wall-mounted shower seat: L-shaped seat, phenolic or polymeric composite folding unit, anchored to wall with toggle anchors, Bobrick B-5181.
- towel hooks, Bobrick B-670, inside student showers
- coat hooks, Bobrick B-670, on doors of staff toilets and itinerant offices.
- warm air dryers: semi-recessed units, multi-function capability for hair or hand drying positions in enclosed toilet rooms and locker rooms
- fold-down changing unit: semi-recessed, fold-down changing unit, 250-lb static load capacity, semi-recessed mounting
- under-lavatory guards: antimicrobial, molded-plastic insulating pipe covering for supply and drain piping to prevent direct contact with piping, Truebro, LavGuard
- Custodial accessories:
  - mop and broom holder, 36" long, 4 holders, Bobrick B-223 x 36
  - utility shelf, stainless steel, 16" long, supported by two triangular brackets
  - paper towel (roll) dispenser

Section 10 41 00 – Emergency Access & Information Cabinets

- Building-Mounted Emergency Lock Box: High security key box with enhanced rust and corrosion protection mounted with recessed mounting installation, by Knox Box, model as requested by the local authority. Locate at main entry and two side gate entrances
- Key cabinet, metal construction, surface wall-mounted, 120-key capacity, piano hinges, five-disc tumbler cam lock, manufactured by Kekab. Located in custodians office.

Section 10 44 13 - Fire Protection Cabinets

- Semi-recessed, steel fire extinguisher cabinet
- Door Style: vertical duo panel with Tempered break glass and lock.
- Cabinet Finish: Satin chrome steel

Section 10 44 16 - Fire Extinguishers

- Fire extinguishers
  - Multipurpose Dry-Chemical Type: 3-A:40-B:C, 5-lb, monoammonium phosphate-based dry chemical in enameled-steel container, in typical building areas.
  - Class-K Wet-Chemical Type: UL-rated, 2-A:K, 20-lb, potassium bicarbonate-based wet chemical in stainless steel container, for kitchen and science rooms.
  - Clean-Agent Type: 5-B:C, 4.75-lb, HFC blend agent in enameled-steel container, for computer and data frame rooms.
- Mounting brackets: wall-mounted with identification signage

Section 10 51 13 – Metal Lockers
- General: All-welded construction athletic lockers with welded body components, to accommodate padlocks by students, with ADA accessible features, identification plates. Handicap locks for 5% of all lockers.
  - Channel formed frames, 0.060-inch sheet steel; lapped and factory welded corners.
  - 3-point latching mechanism
  - Hinges: three, full loop, five-knuckle type.
  - Finish: high grade baked enamel finish.
- Storage Lockers (for kitchen staff and custodian's use): heavy duty, single tier, hasp for padlock (12"w x 72"h x 15"d)

Section 10 56 13 - Metal Storage Shelving
- Factory formed, field assembled, freestanding post-and-shelf metal shelving system, with height adjustable intermediate shelving, baked enamel finish.

Section 10 71 13 – Exterior Sun Control Devices
- Fixed, integral sunshade device consisting of horizontal blades affixed to arms, installed onto existing CMU columns, stainless steel brackets and fasteners.
- Prefabricated product of 6063-TC aluminum, clear anodized aluminum.
- Size: 17-inches wide x 10-feet long, fabricated from 1/8-inch thick aluminum plate
- Profile style: "Airfoil"
- Fasteners: Stainless steel
- Manufacturer: C/S Sun Controls, Construction Specialties, Inc.

Section 10 75 00 – Flagpoles
- Flagpole: extruded aluminum, 7" diameter, 40' high, (1) pole at main building entry

DIVISION 11 - EQUIPMENT

Section 11 24 29 – Facility Fall Protection
- General: safety anchor fall protection restraint system to provide for safe execution of maintenance operations, including travel restraint. Designed to accommodate low slope roof applications for either membrane or metal roofing systems.

- Horizontal Lifeline Fall Protection System: Complete pre-engineered multi-span flexible lifeline system consisting of end anchors, intermediate anchors, stainless steel cable, mobile attachment devices (shuttle runners, in-line fittings (tensioner, energy absorber, corner fittings, etc.)
- Anchors: injection molded urethane insulation with EPDM flashing seals and stainless steel or aluminum collar for anchorage to structural framing members

Section 11 31 00 – Residential Appliances

- General: Heavy-duty residential appliances which have an Energy Star rating.
- Appliances which are to be owner furnished and contractor installed include:
  - Clothes washer: stacking, frontload, ADA compliant,
  - Refrigerator (Teacher's Lounge): 28 cu. ft. french-door, bottom freezer.
  - Refrigerator (Health Office): under counter type, 4 cu. ft., 3 shelves, ice tray.
  - Ice Machine (Health Room): undercounter type, 15" wide.
  - Range: (Teacher's Lounge): free-standing, 30" wide, electric, radiant burners.
  - Range Hood: Broan, Model RP1 Series Pro-Style, 30", stainless steel.
  - Microwave oven
  - Dishwasher: ADA compliant

Section 11 40 00 – Food Service Equipment

- Section includes commercial Kitchen food service equipment.
- Equipment to be commercial grade.
- Manufactured and custom fabricated equipment shall comply with all Regulatory Code Requirements.
- Materials:
  - Stainless Steel: ASTM A-240, Type 304; gauge as required. 2B finish on totally concealed surfaces; polished 150 grit finish where exposed (Number 4 finish).
  - Sheet Steel: ASTM A-569 hot rolled carbon steel
  - Galvanized Sheet Steel: ASTM A526; G90 Zinc Coating
  - Galvanized Steel Pipe: ASTM A53 or ASTM A120, welded or seamless, schedule 40, galvanized
  - Aluminum: ASTM B209B221 sheet, plate and extrusions
  - Zinc Coated Steel Shapes and Angles: ASTM A-36
  - Sealant: DOW 732 RTV, Sealant Specialty 100% RTV
  - Sound Deadening Material: 3M#42NF Plus, Bemford 3140 water base, Mortell Sound Pack, 1/16 inch foil backed
  - Cutting Boards and Table Tops
  - Wood: Laminated maple
  - Poly: Read Products; John Boos. Provide in sections as required to fit warewashing equipment
  - Food Guard Glass: 1/4 inch laminated safety glass
  - Millwork: ¾" plywood marine grade plywood (no particle board will be allowed)
- Whenever possible equipment shall be made portable. Those items with closed bodies shall be set on raised bases. Open base equipment shall be made with tubular stainless steel legs having sanitary gussets and bullet-shaped feet or casters.
- Finishes:

- Kitchen finishes are to be smooth, washable, and light in color. Flooring material shall have an abrasive slip resistant surface with cove base. If the ceiling is suspended the tiles used shall be mylar coated for cleaning. Recommended wall finish is a washable wall board wainscot material, i.e.: FRP, minimum up to 6 feet with a semi-gloss painted wall surface continuing up to the ceiling.

Stainless steel wall flashing will cover the cooking wall surfaces.Section 11 52 00 – Audio-Visual Equipment

- Short Throw Projector Mount: Hitachi UST 1 wall arm, compatible with projector, mounted over markerboard; OFCI
- Short Throw Projector: Hitachi Model CP-AW252WN, ultra-short throw projector.
- Large Venue Screen: motorized, front projection, matt white projection surface, black borders with remote keyed switch.
  - Screen Mounting: recessed in stage soffit
  - Viewing Area: 118”h x 188”w, 1.6:1 format
  - Viewing Angle: 60 degrees
  - Screen Drop: 60 inches
  - Keyed Switch with locking cover plate.

Section 11 52 13 – Projector Mount

- Short Throw Projector Mount: Hitachi UST 1 wall arm, compatible with projector, mounted over markerboard; OFCI

Section 11 61 43 – Stage Curtains

- Stage Drapery: Flame retardant treated, 100% cotton velour, special color for valance and house curtain, all other velour color black. Fullness for valance, house curtain and traveler; all other drapery flat.
  - House curtain and borders
  - Border curtain at light bars
  - Backdrop curtain
  - Side curtains on trolley and track
  - Light bars

Section 11 66 23 - Gymnasium Equipment

- Basketball Equipment
  - Two (2) main court overhead-mounted, forward folding, glass basketball backstops, breakaway goals, motor operated.
  - Four (4) side court, wall-mounted, side folding, fiberglass basketball backstops, breakaway goals, height adjustable, manual operated.
- Volleyball Equipment
  - Three (3) pair, aluminum universal height standards
  - One (1) competition package
  - Volleyball nets
  - Storage Rack: Porter model V-825 wall rack
  - Transport Cart: Porter model V-956 storage/transport cart

  - Floor anchors
- Badminton Equipment
  - Multi-height standards
  - Badminton nets
  - Storage rack and cart
  - Floor anchors
- Pull-Up bars
  - Wall or ceiling mounted pull-up bars.
- Safety Pads
  - 2" thick, safety pads, puncture and tear resistant
  - Special corner units for door recesses, etc.
  - Graphic logo/graphics at main gym

Section 11 68 23 – Exterior Court Athletic Equipment

- Aluminum Backstop: galvanized, 4.5 " diameter pole; 5' extension; fan shaped aluminum backboard; heavy duty goal. Porter Athletic Equipment Company, Model #00175-340.
- Basketball Nets: 12-loop-mesh net, between 15 and 18 inches long.
- Backboard Safety Pads: extending continuously along bottom and up sides of backboard and over goal mounting and backboard supports.

Section 11 70 00 – Healthcare Equipment

- Defibrillator Cabinet: wall, surface-mounted, alarmed cabinet with clear door window to house automated external defibrillator, audible alarm and strobe light, powered with 2 AA batteries (no AC power), 13"h x 14"w x 7"d, white with red letters, by American AED, www.americanaed.com

Section 11 80 00 – Security Equipment (Library)

- Entry/Exit Detection System: Theft deterrent system for interior library doorways, consisting of complete installation to detect and report unauthorized passage of library materials treated with a sensitized material. Includes pair of detection towers on either side of each library entrance. Secure, vandal-resistant mounting.

DIVISION 12 - FURNISHINGS

Section 12 21 13 – Horizontal Louver Blinds

- Provide aluminum horizontal blinds, 1" wide aluminum slats, baked polyester paint finish, 0.008" aluminum.
  - Manual operation with lift cord and tilt wand
  - Motorized operation at inaccessible locations

Section 12 24 13 – Roller Window Shades

- Roller shades: manual operation, chain driven, anodized aluminum valence housing
- Roller shades: motorized operation, at remote windows
- Skylight Roller shades: motorized operation
- Shadeband Material, PVC-free fabric
  - Light filtering fabric: 8% openness factor
  - Light blocking fabric: zero openness factor

SCHEMATIC DESIGN

Architectural – Outline Specifications

Section 12 32 00 – Manufactured Wood Casework

- C
  abinets
  - Plastic laminate faced manufactured casework, lockable.
  - Countertops: Plastic laminated on plywood
- Shelving: plastic laminate sheet, grade HGL or HGP, bonded to 3/4" plywood, with rigid PVC edge
- Tote Trays, ivory-colored high-impact polystyrene with nickel-plated name card-holders, size: 10-5/8"w x 18-7/8"d x 4-1/4"h.
- Laboratory casework: plastic laminate faced with rigid PVC edge, lockable.
  - Countertops: solid epoxy resin with epoxy sinks
  - Solid doors on upper and base cabinets (no glass)
  - Earthquake lip on shelving

Section 12 35 00 – Music Storage Casework

- Plastic laminate faced manufactured casework for music storage, by Wenger Corp.
- Polyethylene Shelves: High-density, one-piece, blow-molded or formed, with radiused front edge, for abuse-resistant shelves.
- PVC Edge Banding: PVC extrusions, 3 mm thick, round edge.
- Grille Doors: Bright basic steel wire
- Casework for musical instruments according to instrument list by school & District.

Section 12 48 13 - Entrance Flooring

- Walk-off mats, 100% Polymide cut pile, vinyl backing, Coral Brush Active by Forbo.
- Surface type mats adhered directly to the concrete slab.
- Mat Lengths: 12 to 16 feet minimum length

Section 12 93 00 – Site Furnishings (Landscape)

- Bicycle racks: pre-fabricated steel unit allowing double sided parking, capable of supporting 10 bikes, galvanized finish.
- Bollards: 4" diameter x 42" height, galvanized steel, schedule 80 pipe, anchored in concrete footing, with steel dome top.
- Anti-skate devices: Extruded aluminum members anchored securely and nesting onto railings, and edges of concrete site improvements.
- Concrete Benches
- Waste Receptacles: 30-gallon capacity, powder-coated finish

DIVISION 13 – SPECIAL CONSTRUCTION

- Not Used.

DIVISION 14 – CONVEYING SYSTEMS

Section 14 24 00 – Hydraulic Passenger Elevator

- Elevator: Electrically operated, machine room-less

SCHEMATIC DESIGN

Architectural – Outline Specifications

- Model: Kone EcoSpace (basis of design)
- Rated Speed: 110 fpm
- Travel: 14 feet, 2 stops
- Rated Load: 3500 lb.
- Cab size: 6'-8" W x 5'-5-1/2" D, clear inside, sized to fit emergency gurney, 8'-0" height.
- Power: 480v, 3 phase supplied
- Finishes:
  - Floor: Rubber flooring
  - Walls: Plastic laminate panels
  - Ceiling: Stainless steel panels with LED downlight fixtures
  - Railings: Stainless steel
- Telephone connection for emergency use
- Conforms to Oregon State Accessibility regulations
- Manufacturer: Kone, Thyssen Krupp, or Otis Elevator Company

DIVISION 31 – EARTHWORK

Section 31 21 13 – Radon Mitigation

- Provide first floor subslab ventilation chamber constructed as follows:
  - Geotextile fabric over compacted subgrade
  - 6" of aggregate, passing #5 sieve (1"-1/2") with no fines
  - Soil Gas Retarder membrane: 10 mil polyethylene with minimum perm rating of .3, with minimal lapped seams
  - Seal slab joints and penetrations
  - Coordinate placement of subslab soil exhaust discharge ventilation piping up through roof

END OF ARCHITECTURAL OUTLINE SPECIFICATIONS

Troutdale Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

MEP – Outline Specifications

DIVISION 21 – FIRE PROTECTION

Section 21 05 00 – Common Work Results for Fire Suppression Systems

- General: Section includes specific contractual requirements for the design-build fire protection contractor, including shop drawings, submittals, O&M's, change orders, alternates, warranty, coordination with other trades, and general installation requirements.

Section 21 10 00 - Water Based Fire Suppression Systems

- General: Section includes wet pipe, dry pipe, fire protection system products and accessories.

DIVISION 22 – PLUMBING

Section 22 05 00 – Common Work Results for Plumbing

- General: Section includes specific contractual requirements for the plumbing contractor, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 22 05 18 - Plumbing Expansion Compensation

- General: Section includes stress analysis calculations, expansion joints/loops and compensators.

Section 22 05 19 - Meters and Gauges for Plumbing

- General: Section includes thermometers, pressure gauges and water meters.

Section 22 05 23 - General Duty Valves and Specialties for Plumbing

- General: Section includes service valves (gate, globe, ball, butterfly), check valves, balance valves, specialty valves (gas, etc.), pressure reducing valves, system specialties, relief valves and strainers.

Section 22 05 29 - Hangers, Supports, and Anchors Plumbing

- General: Section includes delegated design for supports, anchorage and restraint. Products include supports, pipe attachments, rollers/shields/saddles, and building attachments.

Section 22 05 48 - Vibration and Seismic Controls for Plumbing Piping and Equipment

- General: Section includes vibration isolation attachment products and seismic restraint between plumbing piping/equipment and the building.

Section 22 05 53 - Identification for Plumbing Piping and Equipment

- General: Section includes identification materials and labels for plumbing valves, piping, and equipment.

Section 22 05 90 - Pressure Testing for Plumbing Systems

- General: Section includes pressure testing for plumbing piping (sanitary and roof drainage, domestic hot/cold, natural gas).

SCHEMATIC DESIGN

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Section 22 05 93 - Testing, Adjusting, and Balancing for Plumbing

- General: Section includes testing, adjusting and balancing of domestic hot water recirculation systems and mixing valves.

Section 22 07 00 - Insulation for Plumbing

- General: Section includes plumbing pipe insulation, acoustical wrap and insulation accessories for piping.

Section 22 08 00 - Commissioning for Plumbing

- General: Section includes startup and testing requirements for the plumbing system equipment and piping.

Section 22 21 13 - Pipe and Pipe Fittings Plumbing

- General: Section includes pipe, pipe couplings and fittings for domestic hot/cold, sanitary waste/vent, storm, and natural gas.

Section 22 21 23 - Pumps for Plumbing

- General: Section includes in-line circulating pumps, and sump pumps.

Section 22 25 00 - Plumbing Water Treatment

- General: Section includes water treatment products and procedures for domestic water piping.

Section 22 30 00 - Plumbing Equipment

- General: Section includes electric and gas water heaters and storage tanks, backflow preventers, heat trace cabling, and expansion tanks.

Section 22 40 00 - Plumbing Fixtures

- General: Section includes plumbing fixtures (water closets, urinals, lavatories, sinks, mop sinks, showers, drinking fountains, mixing valves), emergency fixtures, drainage products (hose bibbs, roof/overflow drains, floor drains/sinks, cleanouts, trap primers, grease interceptors, etc.).

DIVISION 23 – HVAC

Section 23 05 00 – Common Work Results for HVAC

- General: Section includes specific contractual requirements for the mechanical contractor, including shop drawings, submittals, O&M's, change order, alternates, fire stopping, warranty, coordination with other trades, and general installation requirements.

Section 23 05 14 -Variable Frequency Drives for HVAC Equipment

- General: Section includes VFD's for HVAC fans/pumps.

Section 23 05 18 - HVAC Expansion Compensation

- General: Section includes stress analysis calculations, expansion joints/loops and compensators.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 05 19 - Meters and Gauges for HVAC

- ◊ General: Section includes thermometers, pressure gauges, differential pressure gauges, and water meters.

Section 23 05 23 - General Duty Valves and Specialties for HVAC

- ◊ General: Section includes service valves (gate, globe, ball, butterfly), check valves, balance/control valves, specialty valves, system specialties, expansion tanks, air separators, relief valves, strainers, and suction diffusers.

Section 23 05 29 - Hangers, Supports, and Anchors for HVAC

- ◊ General: Section includes delegated design for supports, anchorage and restraint. Products include supports, pipe attachments, rollers/shields/saddles, and building attachments.

Section 23 05 48 - Vibration and Seismic Controls for HVAC Piping and Equipment

- ◊ General: Section includes vibration isolation attachment products and seismic restraint between HVAC piping/equipment and the building.

Section 23 05 53 - Identification for HVAC Piping and Equipment

- ◊ General: Section includes identification materials and labels for HVAC valves, piping, and equipment.

Section 23 05 90 - Pressure Testing for HVAC Systems

- ◊ General: Section includes pressure testing for ductwork, and HVAC piping (chilled water, heating water, refrigerant piping).

Section 23 05 93 - Testing, Adjusting, and Balancing for HVAC

- ◊ General: Section includes testing, adjusting and balancing of Air Systems (fans, diffusers/grilles, etc.), Hydronic Systems (pumps, coils, etc.), and Electric Heating Systems.

Section 23 07 00 - Insulation for HVAC

- ◊ General: Section includes HVAC pipe and duct insulation, acoustical wrap and insulation accessories.

Section 23 08 00 - Commissioning for HVAC

- ◊ General: Section includes startup and testing requirements for the HVAC system equipment and distribution components.

Section 23 09 00 - Instrumentation and Controls for HVAC

- ◊ General: Section includes a design-build Building Management System (BMS) for control and monitoring of HVAC systems and energy metering.

Section 23 09 93 - Sequence of Operations for HVAC Controls

- ◊ General: Section includes sequences of operation for HVAC equipment.

Section 23 21 13 - Pipe and Pipe Fittings HVAC

- ◊ General: Section includes pipe, pipe couplings and fittings for heating and chilled water piping.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 21 23 - Pumps for HVAC Systems
- ◊ General: Section includes base mounted and in-line centrifugal pumps.

Section 23 25 00 - HVAC Water Treatment
- ◊ General: Section includes water treatment products and procedures for closed loop heating and chilled water piping system.

Section 23 31 01 - HVAC Ducts and Casing-Low Pressure
- ◊ General: Section includes sheet metal ductwork for low pressure air systems.

Section 23 31 02 - HVAC Ducts and Casing-Medium Pressure
- ◊ General: Section includes sheet metal ductwork for medium pressure air systems.

Section 23 33 00 - Air Duct Accessories
- ◊ General: Section includes air duct accessories for low and medium pressure air systems (sealer, dampers, flexible connectors, turning vanes, access doors, fittings, fire and smoke dampers).

Section 23 34 00 - HVAC Fans
- ◊ General: Section includes roof fans, roof vents, and inline/cabinet fans.

Section 23 36 00 - Air Terminal Units
- ◊ General: Section includes single duct terminal units.

Section 23 37 00 - Air Outlets and Inlets
- ◊ General: Section includes diffusers and grilles for air distribution systems.

Section 23 40 00 - HVAC Air Cleaning Devices
- ◊ General: Section includes medium and high efficiency air filters.

Section 23 51 00 - Breechings, Chimneys, and Stacks
- ◊ General: Section includes condensing boiler and water heater breechings and stacks

Section 23 52 00 - Heating Boilers
- ◊ General: Section includes natural gas fired condensing boilers.

Section 23 55 00 - Fuel Fired Heaters
- ◊ General: Section includes gas fired make-up air units for kitchen hoods.

Section 23 57 00 - Heat Exchangers
- ◊ General: Section includes flat plate type water-to-water heat exchangers for chilled water glycol loop isolation/freeze protection.

Section 23 70 00 - Central HVAC Equipment
- ◊ General: Section includes custom/semi-custom indoor and outdoor air handling units.

Section 23 72 00 - Air to Air Energy Recovery Units
- ◊ General: Section includes air to air heat recovery units.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 81 00 - Decentralized Unitary HVAC

◊ General: Section includes packaged rooftop HVAC units, split-systems air-conditioning units, and variable refrigerant flow (VRF) systems.

Section 23 82 00 - Convection Heating and Cooling Units

◊ General: Section includes hydronic heating and chilled water coils, refrigerant coils, fan coil units, finned tube radiators, unit heaters, convectors, cabinet unit heaters, and radiant panels.

Section 23 83 16 - Radiant-Heating Hydronic Piping

◊ General: Section includes radiant in-slab PEX piping/couplings and manifolds.

Section 23 84 10 - Electric Heating Equipment

◊ General: Section includes electric duct heaters, unit heaters, cabinet unit heaters, wall heaters, radiant cove heaters, and heat trace cabling.

DIVISION 26 – ELECTRICAL

Section 26 05 00 – Common Work Results for Electrical

◊ General: Section includes specific contractual requirements for the electrical contractor, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 26 05 19 - Low Voltage Electrical Power Conductors and Cables

◊ General: Section includes conductors and splicing materials for low voltage power distribution (under 600 volts).

Section 26 05 26 - Grounding and Bonding for Electrical Systems

◊ General: Section include the power system grounding requirement and materials.

Section 26 05 29 - Hangers and Supports for Electrical Systems

◊ General: Section includes hanger and support for conduit system, equipment, cable tray and seismic requirement for equipment.

Section 26 05 33 - Raceways and Boxes for Electrical Systems

◊ General: Section include the different types of conduit raceway and fitting allowed and installation methods, and floor boxes.

Section 26 05 36 - Cable Trays for Electrical Systems

◊ General: Section include ladder cable tray systems to use for telecom cabling organization and routing.

Section 26 05 43 - Underground Ducts and Raceways

◊ General: Section include vaults and conduits for exterior underground construction.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 26 05 53 - Identification for Electrical Systems

- General: Section include all identification materials and labels for conduits, wiring, electrical and mechanical equipment and receptacles.

Section 26 05 73 - Overcurrent Protective Device Coordination Study

- General: Section include a circuit breaker coordination study and recommended setting, which is done by the contractor as a deferred submittal. The circuit breaker coordination study is code required for the emergency system.

Section 26 09 23 - Lighting Control Devices

- General: Section includes devices for daylighting lighting dimming control.

Section 26 09 43 - Network Lighting Controls

- General: Section include the lighting timeclock control system, which is required by the Oregon energy code.

Section 26 22 00 - Low Voltage Transformers

- General: Section include dry type low voltage transformers for conversion of 480vac to 208vac.

Section 26 24 13 – Switchboards

- General: Section include the distribution panel and equipment for the main incoming power service panel and sub-distribution.

Section 26 24 16 – Panelboards

- General: Section includes branch panelboards (circuit breaker panels) for both the 480 and 208vac systems, to be used for lighting and receptacle circuiting.

Section 26 27 26 - Wiring Devices

- General: Section includes, lighting switches, power receptacles, and associated cover plates and occupancy sensors.

Section 26 29 00 - Motor Controllers

- General: Section includes, motor starters, disconnect switches, and elevator power modules.

Section 26 32 13 - Engine Generators

- General: Section includes an exterior diesel engine power generator system and associated weatherproof housing and fuel tank.

Section 26 33 53 - Static Uninterruptible Power Supply System

- General: Section include UPS units for use as battery backup system for telecom systems.

Section 26 36 23 - Automatic Transfer Switches

- General: Section Includes ATS switch for use in switching from a normal power source to an generator power source.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 26 43 13 - Surge Protection devices

◊ General: Section include a power voltage surge suppression device, device will be used on the main incoming power service.

Section 26 50 00 - Lighting

◊ General: Section includes materials and installation for interior and exterior lighting products, including, lamps, drivers, ballasts and fixtures.

DIVISION 27 – COMMUNICATIONS

Section 27 05 00 - Common Work Results for Communications

◊ General: Section includes specific contractual requirements for the technology contractor, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 27 05 26 - Grounding and Bonding for Communication Systems

◊ General: Section includes grounding requirements specific for the telecom systems and raceways and telecom room equipment.

Section 27 05 28 - Pathways for Communication Systems

◊ General: Section includes specific requirement for raceway, conduits and cable tray system to be used for telecom system.

Section 27 08 00 - Commissioning of Communications

◊ General: Section include the startup and testing requirements for the telecom system equipment and cabling.

Section 27 11 00 - Communications Equipment Room Fittings

◊ General: Section Includes telecom room equipment, racks, plywood backboards, ladder runway, fireproof wall sleeves.

Section 27 11 19 - Communications Termination Blocks and Patch Panels

◊ General: Section Include the patch panel and termination blocks for the termination of copper telecom cabling.

Section 27 13 00 - Communications Backbone Cabling

◊ General: Section includes fiber and copper cabling type for the telecom infrastructure distribution system.

Section 27 15 00 - Communications Horizontal Cabling

◊ General: Section Includes the CAT cabling and data outlet, jacks, and cover plates.

Section 27 41 16 - Integrated Audio-Video Systems and Equipment

◊ General: Section includes A/V system products, including, floor boxes, equipment racks, control systems, displays, conferencing equipment, projector, projector screens, microphones and wiring.

Section 27 51 16 - Public Address Systems

◊ General: Section includes products and installation for building wide paging system, including system speakers, amplifiers, and wiring.

Section 27 53 19 - Internal Cellular, Paging, and Antenna Systems

◊ General: Section includes a distributed antenna system (DAS) products and installation for an emergency responder communications system within the building.

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

Section 28 05 00 - Common Work Results for Electronic Safety and Security

◊ General Section includes specific contractual requirements for the access controls, video surveillance and fire alarm system contractors, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 28 05 13 - Conductors and Cables for Electronic Safety and Security

◊ General: Section includes conductor and cabling for the access control, video surveillance and fire alarm system.

Section 28 13 00 - Access Control

◊ General: Section includes equipment for access controls, including, door locks, door access identification pads, pushbutton stations, motion sensors, badging ID, cabling and control panels.

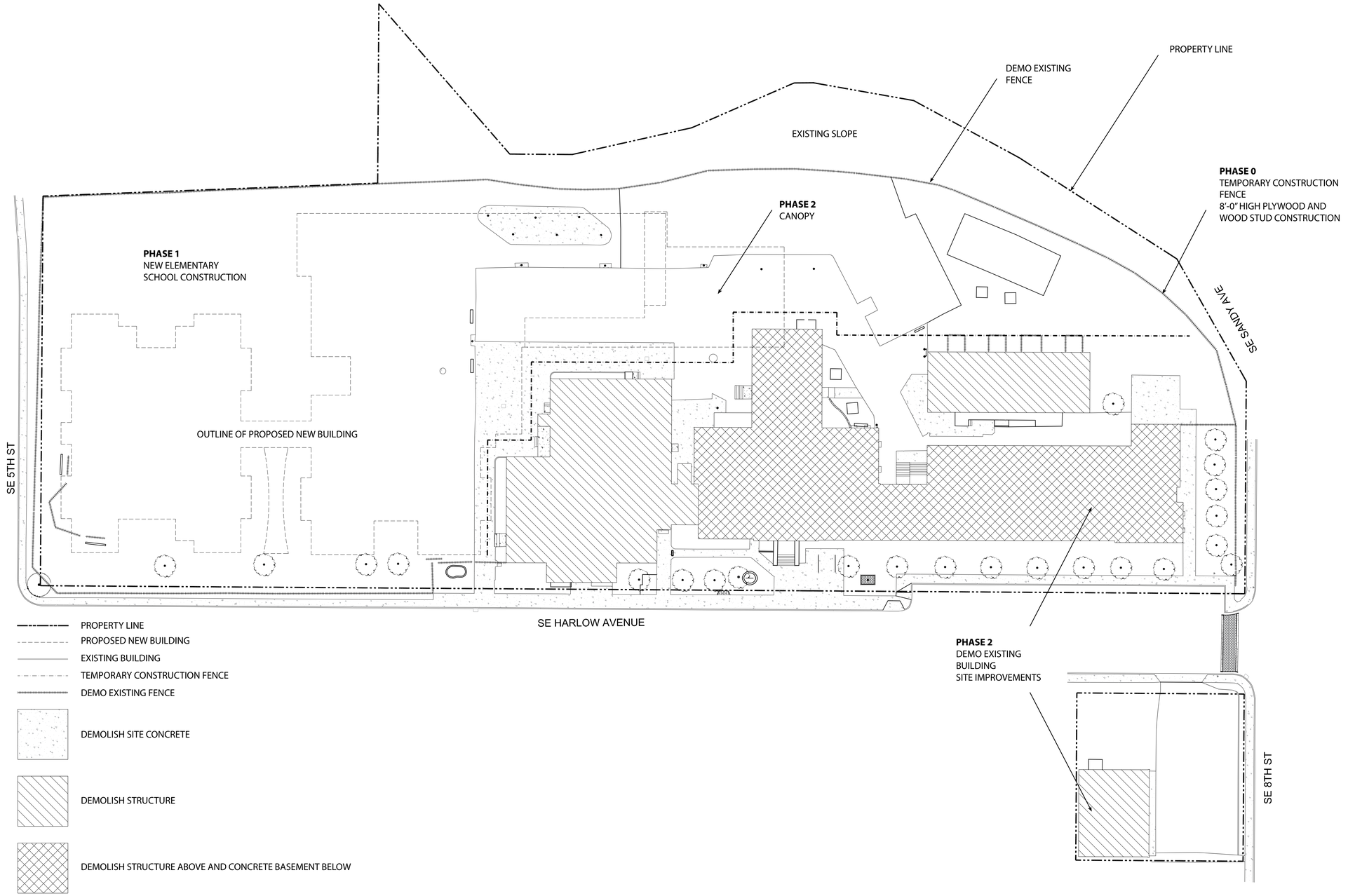
Section 28 23 00 - Video Surveillance

◊ General: Section includes video surveillance cameras, camera housings, power supplies, video recorders and cabling.

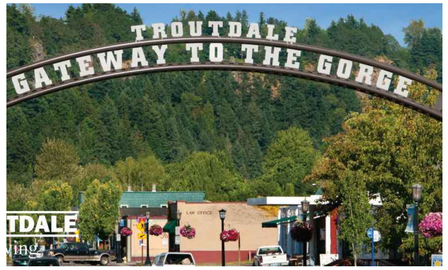
Section 28 30 01 - Fire Detection and Communications

◊ General: Section includes a fire alarm system, control panel, remote annunciator, smoke detectors, pull stations, strobes and horn/strobes, tamper and flow switches.

	Space Type	Exter.		Floors											Base			Walls						Wainsc't			Wall Mtd. Panels						Exposed Structu					Ceiling Panels				
	* Vinyl Walcovering o/ DW @ interior walls only.	Outdoor Pavers	Outdoor Entry Walk off Grille	Concrete w/Sealer	Concrete Polished	Carpet	Resilient Floor	Wood Athletic Floor	Ceramic Tile	Aaltro	Concrete Deck	Entry Mat	Rubber Stair Treads		Tile	Resilient	Aaltro	Painted Drywall	Painted CMU	Fiberg'lss Reinf Pnls on D.W.	Vinyl Wallcovering on D.W.*	Digital Wall Covering on D.W	Grnd-face CMU Blend (Seaec		MDF Painted over D.W.	Ceramic Tile on Cement Bd.		25% Acoustical Wall Panels	Gym Padding	Sharewall	Environmental Graphics				Painted Steel Deck/Structure	Painted Acous. Deck/Struct.	Wood Deck/Glue Lams	Painted Acoustic/Floor Deck	Unpainted Steel Deck	Susp. Acoustical Panel	50% Wood Panels	50% Acoustic Clouds	Painted Drywall	Painted Drywall Soffit/Blkhd.
Academic Spaces	Kindergarten Studios					80	20									✓		✓			✓								✓										✓				✓
	Learning Studios 1-5						✓									✓		✓			✓								✓										✓				✓
	Special Ed Learning Studios						✓									✓		✓			✓								✓										✓				✓
	Learning Commons				✓											✓		✓			✓								✓					✓						✓			
	Music/Stage						✓									✓		✓			✓			✓					✓					✓						✓			
	Flex Learning Studio				✓											✓		✓			✓								✓										✓				✓
	Gymnasium							✓								✓			✓										✓					✓									
	Commons						✓									✓		✓					✓	✓				✓			✓				✓						✓			
	Media Center					✓										✓		✓			✓	✓		✓				✓			✓				✓						✓			
Admin	Administrative/Offices					✓										✓		✓																					✓				
	Small Group					✓										✓		✓																					✓				
	Staff Room					✓										✓		✓																					✓				
Circulation	Main Lobby				✓											✓		✓				✓	✓				✓								✓					✓			
	Primary Corridors				✓											✓		✓			✓	✓		✓			✓								✓				✓	✓			
	Stairs												✓			✓		✓						✓			✓								✓				✓				
	Secondary Hallways						✓									✓		✓																					✓				
	Vestibule		✓									✓				✓		✓	✓					✓			✓								✓				✓				
Support Spaces	Kitchen									✓							✓			✓																		✓				
	Group Toilets								✓						✓			✓							✓																✓		
	Individual Toilets								✓						✓			✓							✓																✓		
	Storage			✓												✓								✓																✓		
	Utility / Janitor Rooms			✓												✓				✓				✓																✓		
	MDF/IDF/Computer Carts			✓												✓								✓																✓		
	Mechanical Rooms			✓												✓			✓																				✓			
	Main Entry Canopy																																		✓							
	Bus Walkway Canopy																																✓								
	Covered Play Structure																																✓								
	Outdoor Learning		✓																														✓								
	Outdoor Learning Roof Decks	✓																															✓								
	Shipping / Receiving			✓												✓				✓				✓																✓		


PROPERTY LINE
DEMO EXISTING FENCE
EXISTING SLOPE
PHASE 0
TEMPORARY CONSTRUCTION FENCE
8'-0" HIGH PLYWOOD AND WOOD STUD CONSTRUCTION
PHASE 2
CANOPY
PHASE 1
NEW ELEMENTARY SCHOOL CONSTRUCTION
SE SANDY AVE
OUTLINE OF PROPOSED NEW BUILDING
SE 5TH ST
SE HARLOW AVENUE
PHASE 2
DEMO EXISTING BUILDING
SITE IMPROVEMENTS
SE 8TH ST
PROPERTY LINE
PROPOSED NEW BUILDING
EXISTING BUILDING
TEMPORARY CONSTRUCTION FENCE
DEMO EXISTING FENCE
DEMOLISH SITE CONCRETE
DEMOLISH STRUCTURE
DEMOLISH STRUCTURE ABOVE AND CONCRETE BASEMENT BELOW
0'
30'
60'

INSPIRATIONAL IMAGES











OFF-STREET PARKING TABULATIONS

PERMANENT PARKING: 67 SPACES
PARENT LOADING: 16 SPACES
BIKE PARKING: 16 SPACES

LEGEND

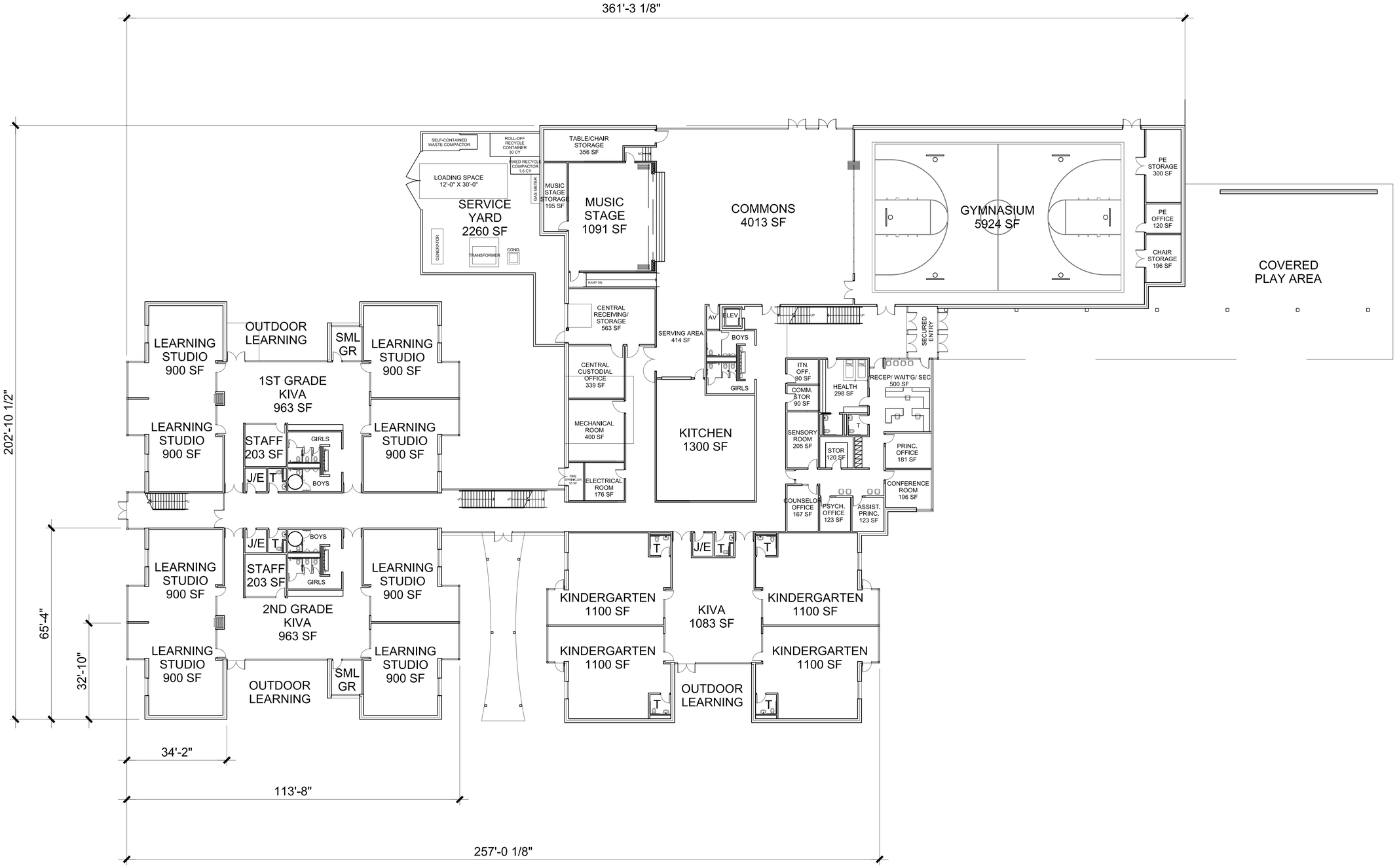
- PROPERTY LINE
- SETBACK
- PROPOSED FENCE
- EXISTING FENCE
- SCHOOL BUS
- PARENT VEHICLE
- SPED BUS
- ASPHALT PAVING
  4" AC over 10" of base course.
  See Civil.
- CONCRETE PAVING
  4" over 4" of base course.
  See Civil.
- SPECIAL PAVING AREAS
- VEHICLE LOADED CONCRETE PAVING
  6" of concrete over 6" of base course.
  See Civil.
- SOFT PLAY AREA
- PLANT BED/LAWN
- STORMWATER TREATMENT AREA
- PROPOSED TREES
- EXISTING TREE
- BOULDERS SET IN CONCRETE PAVING
- STEPPING STONE PATH
- DETECTABLE PAVING
- BIKE PARKING

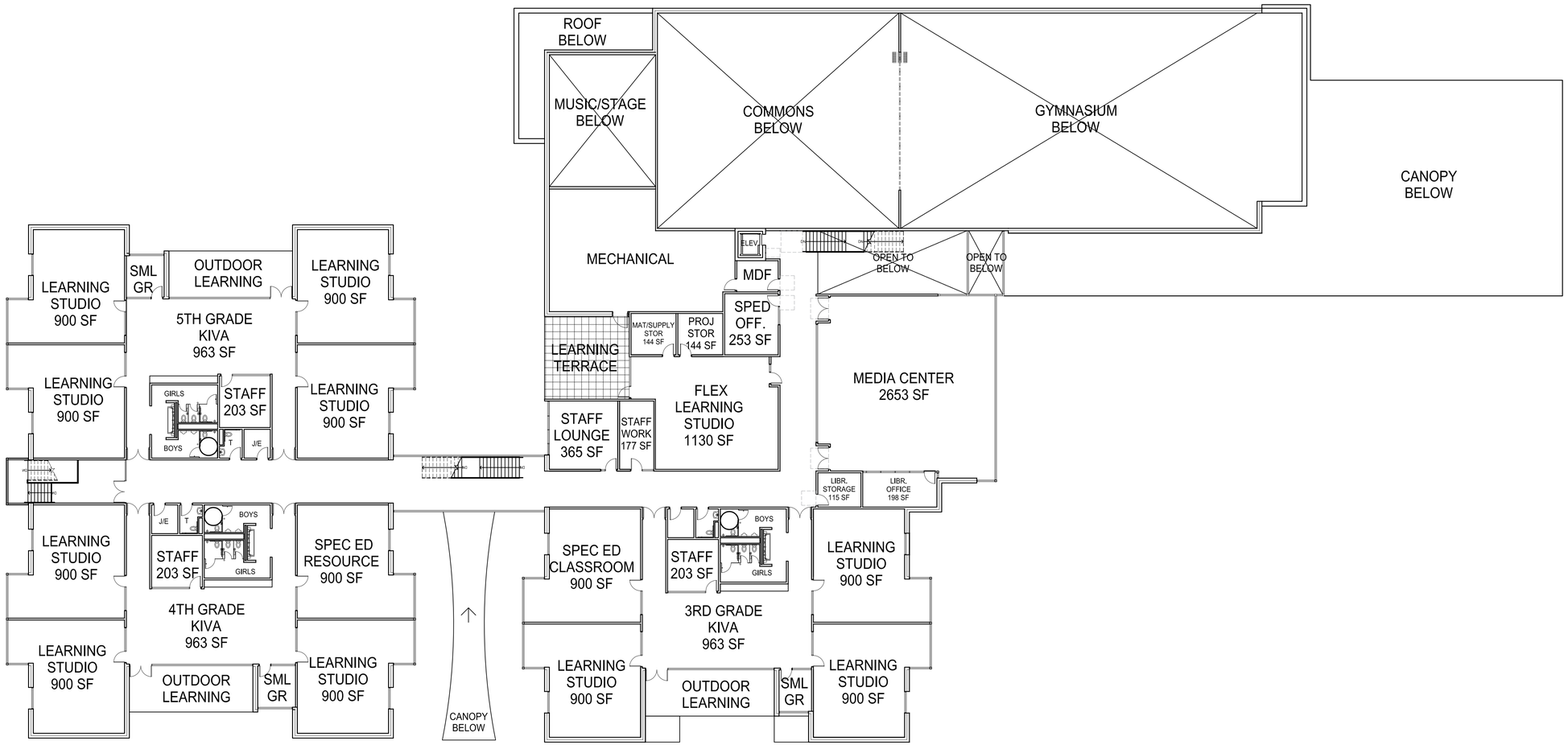
0' 40' 80'

Reynolds School District

Troutdale ES Site Plan

BLRB architects


361'-3 1/8"
202'-10 1/2"
65'-4"
32'-10"
34'-2"
113'-8"
257'-0 1/8"
SELF-CONTAINED WASTE COMPACTOR
ROLL-OFF RECYCLE CONTAINER 30 CY
MIXED RECYCLE COMPACTOR 1.5 CY
LOADING SPACE 12'-0" X 30'-0"
GAS METER
SERVICE YARD 2260 SF
GENERATOR
TRANSFORMER
COND.
TABLE/CHAIR STORAGE 356 SF
MUSIC STAGE STORAGE 195 SF
MUSIC STAGE 1091 SF
RAMP DN
COMMONS 4013 SF
GYMNASIUM 5924 SF
PE STORAGE 300 SF
PE OFFICE 120 SF
CHAIR STORAGE 196 SF
COVERED PLAY AREA
CENTRAL RECEIVING/ STORAGE 563 SF
SERVING AREA 414 SF
AV
ELEV.
BOYS
GIRLS
CENTRAL CUSTODIAL OFFICE 339 SF
MECHANICAL ROOM 400 SF
FIRE SPRINKLER 55 SF
ELECTRICAL ROOM 176 SF
KITCHEN 1300 SF
SECURED ENTRY
ITN. OFF. 90 SF
COMM. STOR 90 SF
HEALTH 298 SF
RECEP/ WAIT'G/ SEC 500 SF
SENSORY ROOM 205 SF
STOR 120 SF
PRINC. OFFICE 181 SF
CONFERENCE ROOM 196 SF
COUNSELOR OFFICE 167 SF
PSYCH. OFFICE 123 SF
ASSIST. PRINC. 123 SF
LEARNING STUDIO 900 SF
OUTDOOR LEARNING
SML GR
1ST GRADE KIVA 963 SF
STAFF 203 SF
J/E
T
2ND GRADE KIVA 963 SF
KINDERGARTEN 1100 SF
KIVA 1083 SF
0'
16'
32'

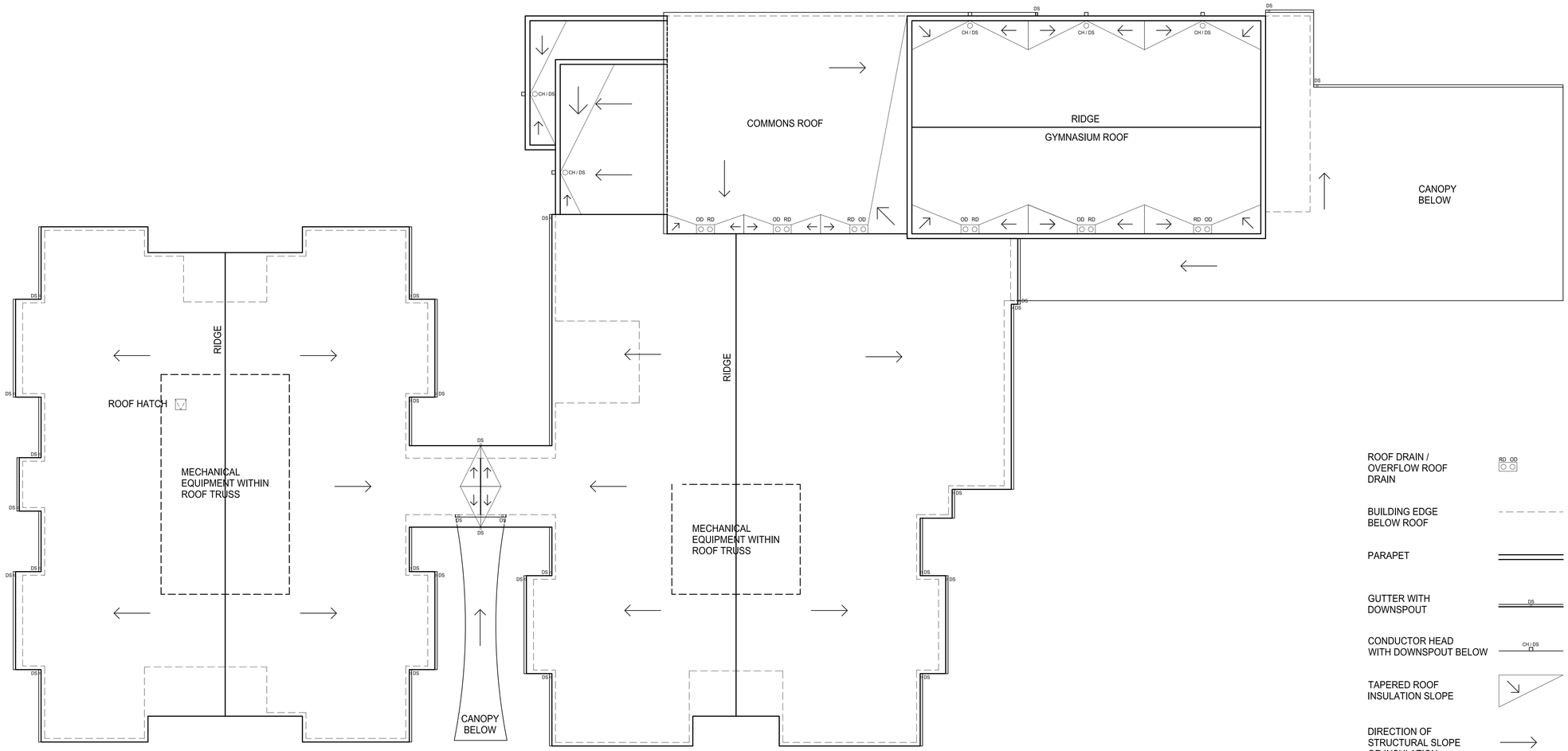


0′ 16′ 32′

TROUTDALE ES FLOOR PLAN 2

Reynolds School District

BLRB architects



ROOF DRAIN / OVERFLOW ROOF DRAIN — RD OD

BUILDING EDGE BELOW ROOF

PARAPET

GUTTER WITH DOWNSPOUT — DS

CONDUCTOR HEAD WITH DOWNSPOUT BELOW — CH / DS

TAPERED ROOF INSULATION SLOPE

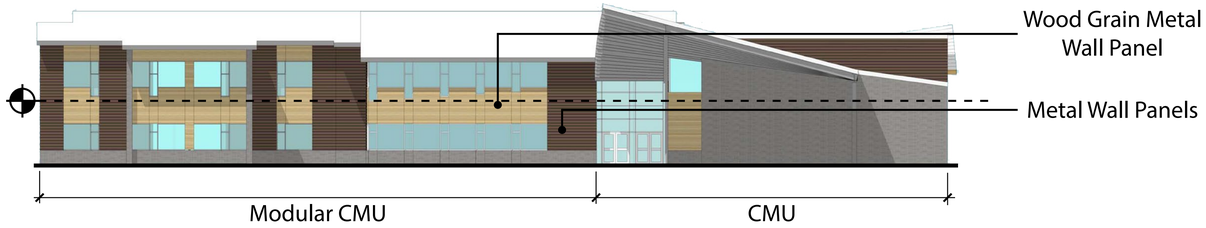
DIRECTION OF STRUCTURAL SLOPE OR INSULATION SLOPE = 0.5" PER FOOT

0′ 16′ 32′

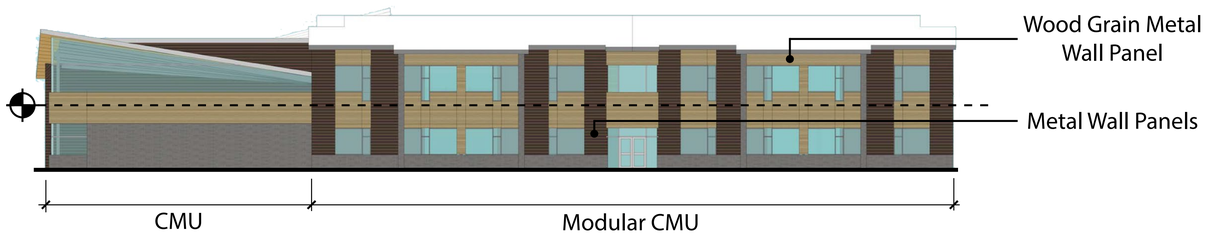
Reynolds School District

TROUTDALE ES ROOF PLAN

BLRB architects



South Elevation



North Elevation

Exterior Wall Assemblies

Modular CMU
- Gypsum Board
- Wood Stud Framing
- Blanket Insulation R13
- Sheathing
- Rigid Insulation R7.5
- Ties/Anchors
- Masonry Veneer

CMU
- 12" Concrete Masonry Units
- Rigid Insulation R11.4
- Ties/Anchors
- Masonry Veneer

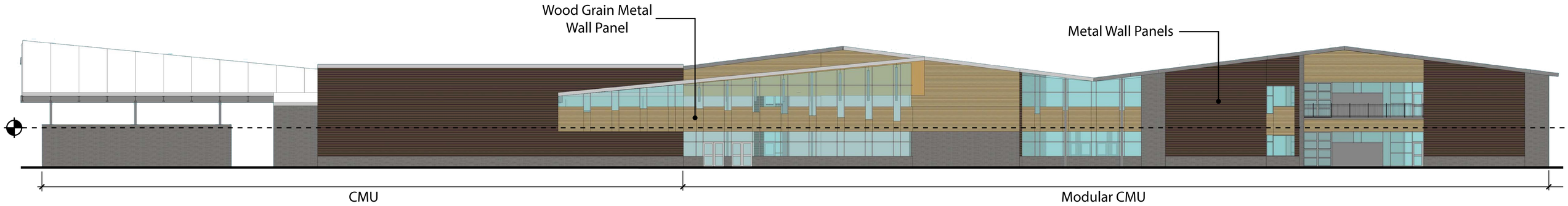
Metal Wall Panels
- Gypsum Board
- Wood Stud Framing
- Blanket Insulation R13
- Sheathing
- Rigid Insulation R7.5
- Metal Furring System
- 12"W Metal Wall Panels
- Wood Grain Panel by Longboard

Building Height

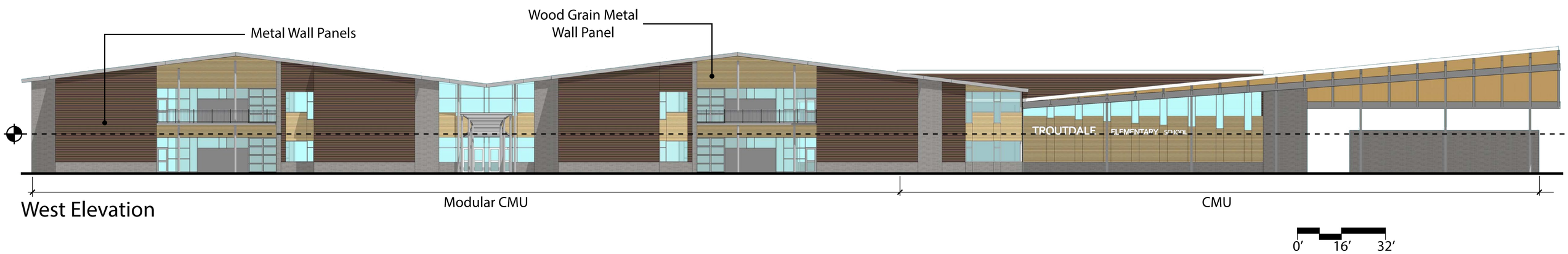
34'-3 1/2"

2nd Floor Height

14'-0"



East Elevation



West Elevation

SE 5TH STREET

SE HARLOW AVENUE

SE KIBLING AVENUE

BLOCK 19

MANHOLE LID=226.86

MANHOLE LID=222.75

CONCRETE SIDEWALK

CURB

CHAIN LINK FENCE

BENCH

BACKSTOP

20" SPRUCE

6" PLUM

8" DOGWOOD

12" PLUM

PP W/LIGHT

TELEPHONE VAULT

S 89°37'01" E 230.00'

S 89°37'01" E 3.00'

S 00°22'59" W 330.00'

S 00°13'30" E 260.21'

N 89°37'01" W 12.10'

LINE PER SURVEY NUMBER 36056, AND WEST LINE OF THE PLAT OF TREEVIEW HEIGHTS IN 1974.

AREA OF QUESTIONABLE OWNERSHIP, NO FEE TITLE FOUND FOR THIS TRACT.

STREET RIGHT-OF-WAY VACATED PER BOOK 931, PAGE 431, RECORDED JUNE 8, 1973 (DOCUMENT DOES NOT RESERVE UTILITY RIGHTS)

30.00'

MATCH LINE

MATCH LINE

0 10 20 30

LEGEND:

WM = WATER METER
WV = WATER VALVE
FH = FIRE HYDRANT
SS = STREET SIGN
TC = TOP OF CURB
G = GUTTER OF CURB
PP = POWER POLE
TR = TELEPHONE RISER
FF = FINISH FLOOR ELEVATION
CB = CATCH BASIN
CO = CLEAN OUT
DS = DOWN SPOUT
EB = ELECTRIC BOX
EM = ELECTRIC METER
BO = BOLLARD
AS = AUTOMATIC SPRINKLER
CV = CONTROL VALVE
GA = GUY ANCHOR
WCR = WHEEL CHAIR RAMP
HCS = HANDICAP SIGN

NOTES:

1. BENCH MARK: ELEVATIONS ARE BASED ON THE NAVD88 VERTICAL DATUM BASED ON A STATIC GPS OBSERVATION.
2. CONTOURS ARE AT ONE-FOOT INTERVALS AND ARE COMPUTER GENERATED.
3. UNDERGROUND UTILITIES ARE SUBJECT TO ACTUAL FIELD LOCATION.
4. ALL UTILITIES MAY NOT BE SHOWN.
5. TREE SPREADS ARE NOT TO SCALE.
6. THIS SURVEY REFLECTS INFORMATION SHOWN ON THE TITLE REPORT BY TICOR TITLE COMPANY, DATED NOVEMBER 10, 2015, ORDER NO. 362608096OTO-TTPOR51.
7. STREET RIGHT-OF-WAY VACATIONS IN BOOK 931, PAGE 431 RECORDED JUNE 8, 1973, BOOK 952, PAGE 1093 RECORDED OCTOBER 1, 1973, AND BOOK 1827, PAGE 388 RECORDED MAY 31, 1985 DO NOT RESERVE UTILITY RIGHTS.
8. THERE WAS NO EVIDENCE IN THE TITLE REPORT REFLECTING THAT SE 7TH STREET HAS BEEN VACATED.

TOPOGRAPHIC SURVEY
OF
TROUTDALE ELEMENTARY SCHOOL
SITUATED IN THE
SOUTHWEST 1/4 OF SECTION 25, T. 1 N., R. 3 E., W.M.
CITY OF TROUTDALE, COUNTY OF MULTNOMAH, STATE OF OREGON
UPDATED: MAY 16, 2016 TO ADD TAX LOT 200 AND UNDERGROUND UTILITIES

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON JULY 16, 1982 TERRICE D. JONES 2796
EXPIRES: 6-30-17

FOR YOUR REVIEW ONLY

R.S. GREENLEAF (1885-1915)
MARSHALL BROTHERS (1915-1957)
BOOTH & WRIGHT (1957-1977)
SETON, JOHNSON & ODELL (1977-1983)
CHASE, JONES & ASSOCIATES, INC. (1983-)

CHASE, JONES & ASSOCIATES INC.
716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14356		APRIL 19, 2016	1 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	

SE 6TH STREET

SE HARLOW AVENUE

SE KIBLING AVENUE

SE SANDY STREET

MATCH LINE

STREET RIGHT-OF-WAY VACATED PER BOOK 1827, PAGE 388, RECORDED MAY 31, 1985 (DOCUMENT DOES NOT RESERVE UTILITY RIGHTS)

EXISTING SCHOOL BUILDING
648 SE HARLOW ROAD

BLOCK 22

TAX LOT 200
(SOLID BLACKBERRIES)

DASHED CONTOURS IN THIS AREA APPROXIMATE ONLY

TAX LOT 300

PLAYGROUND AREA

ASPHALT

CONCRETE

BRICK

CONCRETE SIDEWALK

CONCRETE CURB

CONCRETE PAD

CONCRETE LANDING

CONCRETE WALL

BRICK WALL

PLANTER

CHAIN LINK FENCE

GATE

STAIRS

STORM LINE AS PAINTED

SEWER LINE AS PAINTED

ELECTRIC LINE AS PAINTED

WATER LINE AS PAINTED

PRODUCT LINE AS PAINTED

CONCRETE AROUND MANHOLE

GRADE BREAK

CONCRETE SIDEWALK

CURB

KEYSTONE WALL

SEWER AS PAINTED

STORM AS PAINTED

STAIRS DOWN UNDER ENTRY

CONCRETE WALL

2 STORY CONCRETE LANDING

EMERGENCY GENERATOR

FUNNEL BALL POLE

BASKETBALL HOOP

BENCH

TETHERBALL POLE

CONCRETE VAULT
LID=223.8

MANHOLE
LID=224.80

SEWER MANHOLE
LID=224.48

SEWER MANHOLE
LID=224.34

UTILITY MANHOLE

TANK

12" PLUM

12" (2) PLUM

8" & 12" PLUM

18" PLUM

6" DOGWOOD

PGE VAULT

N 00°22'59" E 145.77'

S 00°22'59" W 200.00'

S 89°37'01" E 85.34'

N 89°37'01" W 30.00'

S 48°56'14" W 12.84'

S 12°19'05" E 74.28'

S 23°19'05" E 66.68'

N 00°22'59" E 18.88'

60.00'

NOTES:

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2. CONTOURS ARE AT ONE-FOOT INTERVALS AND ARE COMPUTER GENERATED.
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8. THERE WAS NO EVIDENCE IN THE TITLE REPORT REFLECTING THAT SE 7TH STREET HAS BEEN VACATED.

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BO = BOLLARD
AS = AUTOMATIC SPRINKLER
CV = CONTROL VALVE
GA = GUY ANCHOR
WCR = WHEEL CHAIR RAMP
HCS = HANDICAP SIGN

FOR YOUR REVIEW ONLY

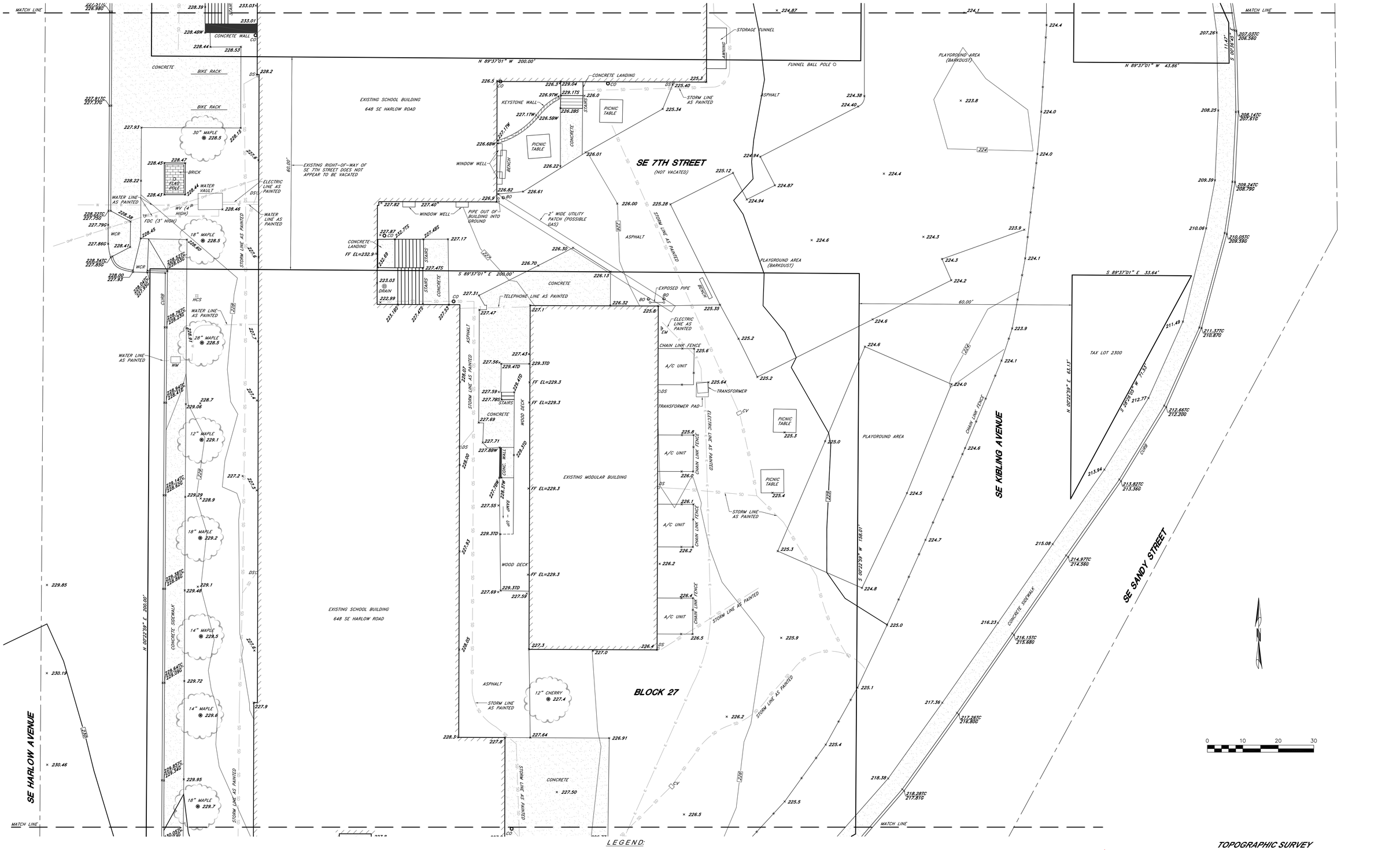
REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 29, 1982
ERIC D. JONES
2996
EXPIRES: 6-30-17

R.S. GREENLEAF (1885-1915)
MARSHALL BROTHERS (1915-1957)
BOOTH & WRIGHT (1957-1977)
SETON, JOHNSON & ODELL (1977-1983)
CHASE, JONES & ASSOCIATES, INC. (1983-)

TOPOGRAPHIC SURVEY
OF
TROUTDALE ELEMENTARY SCHOOL
SITUATED IN THE
SOUTHWEST 1/4 OF SECTION 28, T. 1 N., R. 3 E., W.M.
CITY OF TROUTDALE, COUNTY OF MULTNOMAH, STATE OF OREGON
UPDATED: MAY 16, 2016 TO ADD TAX LOT 200 AND UNDERGROUND UTILITIES

CHASE, JONES & ASSOCIATES INC.
716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14356		APRIL 19, 2016	2 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	



NOTES:

1. BENCH MARK: ELEVATIONS ARE BASED ON THE NAVD88 VERTICAL DATUM BASED ON A STATIC GPS OBSERVATION.
2. CONTOURS ARE AT ONE-FOOT INTERVALS AND ARE COMPUTER GENERATED.
3. UNDERGROUND UTILITIES ARE SUBJECT TO ACTUAL FIELD LOCATION.
4. ALL UTILITIES MAY NOT BE SHOWN.
5. TREE SPREADS ARE NOT TO SCALE.
6. THIS SURVEY REFLECTS INFORMATION SHOWN ON THE TITLE REPORT BY TICOR TITLE COMPANY, DATED NOVEMBER 10, 2015, ORDER NO. 362608098010-TTPOR91.
7. STREET RIGHT-OF-WAY VACATIONS IN BOOK 1371, PAGE 431 RECORDED JUNE 8, 1973, BOOK 952, PAGE 1093 RECORDED OCTOBER 1, 1973, AND BOOK 1827, PAGE 388 RECORDED MAY 31, 1985 DO NOT RESERVE UTILITY RIGHTS.
8. THERE WAS NO EVIDENCE IN THE TITLE REPORT REFLECTING THAT SE 7TH STREET HAS BEEN VACATED.

LEGEND:

WM = WATER METER
WV = WATER VALVE
FH = FIRE HYDRANT
SS = STREET SIGN
TC = TOP OF CURB
G = GUTTER OF CURB
PP = POWER POLE
TR = TELEPHONE RISER
FF = FINISH FLOOR ELEVATION
CB = CATCH BASIN
CO = CLEAN OUT
DS = DOWN SPOUT
EB = ELECTRIC BOX
EM = ELECTRIC METER
BO = BOLLARD
AS = AUTOMATIC SPRINKLER
CV = CONTROL VALVE
GA = GUY ANCHOR
WCR = WHEEL CHAIR RAMP
HCS = HANDICAP SIGN

FOR YOUR REVIEW ONLY

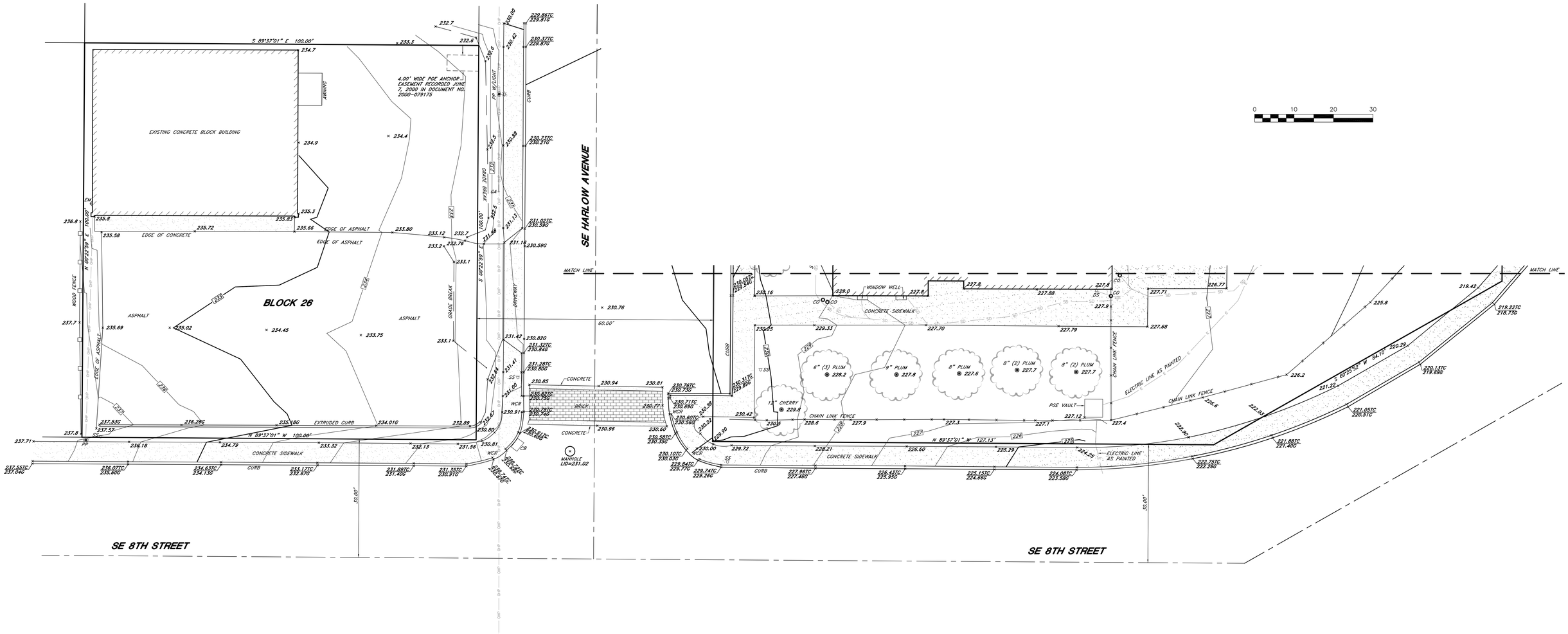
REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 16, 1982
CHRIS D. JONES
1996
EXPIRES: 6-30-17

TOPOGRAPHIC SURVEY
OF
TROUTDALE ELEMENTARY SCHOOL
SITUATED IN THE
SOUTHWEST 1/4 OF SECTION 25, T. 1 N., R. 3 E., W.M.
CITY OF TROUTDALE, COUNTY OF MULTNOMAH, STATE OF OREGON
UPDATED: MAY 16, 2016 TO ADD TAX LOT 200 AND UNDERGROUND UTILITIES

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CHASE, JONES & ASSOCIATES INC.
716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14356		APRIL 19, 2016	3 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	



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7. STREET RIGHT-OF-WAY VACATIONS IN BOOK 931, PAGE 431 RECORDED JUNE 8, 1973, BOOK 952, PAGE 1093 RECORDED OCTOBER 1, 1973, AND BOOK 1827, PAGE 388 RECORDED MAY 31, 1985 DO NOT RESERVE UTILITY RIGHTS.
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REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 16, 1982
CARL E. JONES
1996
EXPIRES: 6-30-17

FOR YOUR REVIEW ONLY

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CHASE, JONES & ASSOCIATES INC.
CJ2
716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14356		APRIL 19, 2016	4 OF 4
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GeoDesign Inc

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Troutdale Elementary School
648 SE Harlow Avenue
Troutdale, Oregon

For
Reynolds School District #7
April 20, 2016

GeoDesign Project: ReynoldsSD-4-02

GeoDesign Inc

April 20, 2016

Reynolds School District #7
1204 NE 201st Avenue
Fairview, OR 97024

Attention: Ms. Rachel Hopper

Phase I Environmental Site Assessment
Troutdale Elementary School
648 SE Harlow Avenue
Troutdale, Oregon
GeoDesign Project: ReynoldsSD-4-02

GeoDesign, Inc. is pleased to submit our Phase I ESA of the Troutdale Elementary School located at 648 SE Harlow Avenue in Troutdale, Oregon. Our work was completed in conformance with the standards and practices for all appropriate inquiries specified in Title 40, Chapter I of CFR Part 312 and ASTM Practice E 1527-13. Contractual terms for our services are contained in our proposal dated February 24, 2016.

We appreciate the opportunity to be of service to Reynolds School District #7. Please contact us if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.

Robert E. Belding, R.G.
Principal Geologist

cc: Mr. Robert Collins, Day CPM Services (via email only)

ADD:REB:kt
Attachments
Document ID: ReynoldsSD-4-02-042016-envr.docx
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APPENDICES

Appendix A	Firm Profile
	Resumes of Project Personnel
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Appendix C	Historical Information

ACRONYMS AND ABBREVIATIONS

1.0 INTRODUCTION

This report summarizes the results of our Phase I ESA of the Troutdale Elementary School located at 648 SE Harlow Avenue in Troutdale, Oregon (project site). The project site includes contiguous Tax Lots 02900, 00400, 02200 and non-contiguous Tax Lot 02000 (located on the west side of SE Harlow Avenue) of Multnomah County Tax Map 251N3E OL. The project site is currently occupied by a single-story elementary school structure with a partial basement, playgrounds, a playfield with a baseball diamond, and associated paved parking and landscaped areas. In addition, the project site includes a garage structure with associated paved parking and landscaped areas, used for school district storage, located across SE Harlow Avenue on non-contiguous Tax Lot 02000. The project site is shown relative to surrounding physical features on Figure 1. The project site layout and surrounding properties are shown on Figure 2. GeoDesign's firm profile and resumes of project personnel are presented in Appendix A. Acronyms and abbreviations used herein are defined at the end of this document.

2.0 PURPOSE

2.1 PROTECTION FROM CERCLA LIABILITY

One purpose for conducting a Phase I ESA is to undertake all appropriate inquiries into prior ownership and uses of a property so that a prospective purchaser may potentially claim protection from CERCLA and/or state liability as an innocent landowner, a bona fide prospective purchaser, or a contiguous property owner. The standards and practices for all appropriate inquiries are specified in Title 40, Chapter I of CFR Part 312 and ORS 465. The inquiry must be conducted by an environmental professional to identify conditions indicative of releases and threatened releases of hazardous substances as defined in CERCLA Section 101(22). If the prospective purchaser is the recipient of an EPA Brownfields Grant, the inquiry must also identify conditions indicative of releases and threatened releases of petroleum and petroleum products and controlled substances as defined in 21 U.S. Code 802. These standards and practices do not require the identification of quantities of hazardous substances, petroleum and petroleum products, and controlled substances that, because of said quantity, generally would not pose a threat to human health or the environment.

2.2 IDENTIFICATION OF RECOGNIZED ENVIRONMENTAL CONDITIONS

Another purpose for conducting a Phase I ESA is to identify recognized environmental conditions in connection with a property as they pertain to ASTM Practice E 1527-13. This practice is intended for use by parties who wish to assess the environmental condition of a property by taking into account commonly known and reasonably ascertainable information. Although use of ASTM Practice E 1527-13 constitutes all appropriate inquiry as described in Section 2.1, the standard is intended primarily as an approach to identify recognized environmental conditions in connection with a property. A recognized environmental condition is defined by the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment, (2) under conditions indicative of a release to the environment, or (3) under conditions that pose a material threat of a future release to the environment. Recognized environmental conditions do not include de minimis conditions that do not generally present a risk to public health or to the environment and would not be the subject of legal enforcement if brought to the attention of appropriate governmental agencies.

3.0 SCOPE OF SERVICES

The scope of services completed for this project was conducted in conformance with the standards and practices for all appropriate inquiries specified in 40 CFR Part 312 and the scope and limitations of ASTM Practice E 1527-13. The specific completed scope of services included the following:

- Reviewed a current USGS topographic map to identify the physical setting of the project site.
- Reviewed federal, tribal, state, and local environmental records for listings of known or suspected environmental conditions at the project site or nearby properties as specified in 40 CFR Part 312 and ASTM Practice E 1527-13.
- Reviewed reasonably ascertainable standard historical sources, including aerial photographs, USGS topographic maps, reverse city directories, fire insurance maps, online property information (including available building department records, property tax information, and zoning/land use records), and other historical sources, as appropriate to identify development history on and adjacent to the project site relative to the possible use, generation, storage, release, or disposal of hazardous substances.
- Interviewed a representative of the current owner of the project site (as provided by Reynolds School District #7).
- Conducted a visual reconnaissance of the project site and adjacent properties to obtain information indicating the likelihood of identifying recognized environmental conditions concerning the properties.
- Prepared this report that presents our findings and provides conclusions and recommendations.

The scope of services was limited to only those items listed above. This project did not include completion of an environmental compliance audit; an evaluation for the presence of PCBs in light ballasts; a survey for asbestos, lead-based paint, radon gas, toxic mold, biological pollutants, or urea-formaldehyde insulation; or a wetlands determination or delineation.

4.0 PROJECT SITE AND VICINITY DESCRIPTION

Information concerning the physical setting of the project site and vicinity is based on a review of the USGS 7.5-minute 2013, Camas, topographic quadrangle map; information provided by EDR of Shelton, Connecticut; and observations made during a site reconnaissance conducted on March 22, 2016.

The project site encompasses approximately 3.45 acres at 648 SE Harlow Avenue in Troutdale, Oregon. The project site is currently owned by Reynolds School District #7 and developed with a single-story public elementary school building with a partial basement, a single-story garage storage structure located across SE Harlow Avenue from the main school campus, playgrounds, playfields, and associated paved parking and landscaped areas. The project site includes contiguous Tax Lots 02900, 00400, 02200 and non-contiguous Tax Lot 02000 of Multnomah County Tax Map 251N3E OL and is located in the southeast quarter of the southwest quarter of Section 25, Township 1 North, Range 3 East of the Willamette Meridian.

The project site is situated at elevations ranging between 223 and 236 feet above MSL. The topography of the project site is generally level, with a slight downward slope to the northeast. Based on a review of topographic maps for the area, shallow groundwater beneath the project site is expected to flow to the northeast towards the Sandy River.

Land use in the vicinity of the project site is primarily Residential and Open Space According to the City of Troutdale, the project site is zoned Single Family residential (R-5). Properties surrounding the project site are zoned Single Family residential (R-5) and Open Space (OS).

5.0 USER-PROVIDED INFORMATION

The purpose of this section is to describe information provided by the user of this report Reynolds School District #7) that was considered in the evaluation of potential recognized environmental conditions in connection with the project site. The user was not provided with previously completed environmental reports, title and judicial records for environmental liens or activity and land use restrictions, specialized or actual knowledge or experience, valuation reduction for environmental issues, or commonly known or reasonably ascertainable information. Therefore, these materials were not reviewed as part of this assessment. Previous environmental reports were provided by the User and are summarized in the following sections.

5.1 PREVIOUS REPORTS

GeoDesign was provided with three previous environmental reports regarding the project site. The findings and conclusions of the following reports are summarized in the following sections:

- *System-Wide Assessment, Individual Water Pollution Control Facilities (WPCF) Permit for Class V Stormwater Underground Control (UIC) Systems,* prepared by PBS Engineering and Environmental, Inc. (PBS), dated December 2015 (2015a)
- *Management Plan, Individual Water Pollution Control Facilities (WPCF) Permit for Class V Stormwater Underground Control (UIC) Systems,* prepared by PBS, dated December 2015 (2015b)
- *Monitoring Plan, Individual Water Pollution Control Facilities (WCPF) Permit for Class V Stormwater Underground Injection Control (UIC) Systems,* prepared by PBS, dated December 2015 (2015c)

5.1.1 PBS (2015a)

In December 2015 PBS developed an inventory of Reynolds School District #7 owned and operated UICs to support tracking and management of UICs, identify high-risk UICs for sampling and/or retrofit or closure, and develop a dataset to be used to adaptively manage Reynolds School District #7's stormwater monitoring program. Reynolds School District #7 maintains a UIC Inventory to track information relevant to the System-Wide Assessment. The inventory included the UIC status (active or closed), UIC identifier, basin type, and UIC location by latitude and longitude. Location coordinates of UICs not found during the assessment were estimated using historical site plans and Google Earth.

The project site (DEQ UIC Facility # 10770) was listed as having one active UIC and two inactive UICs. The project site is not listed as having any UICs that discharge directly to groundwater or

are prohibited injection systems. The report noted that a nearby site located at 245 SE 5th Street is listed in the DEQ LUST database for a reported heating oil release in May 2004. Cleanup for this release was completed in November 2004 and the LUST status is reported as closed. PBS reported the listing was not likely to pose a risk to the project site UICs.

The report identified one active and two inactive dry wells at the project site (Figure 2). The actual locations of the two inactive dry wells were not determined in the field but approximated from site plans prepared by PBS in 2001. According to the PBS report, the active dry well, which is located in the southeast portion of the main school campus, collects stormwater from the roof of the school building.

The UIC Inventory may be updated periodically throughout the permit term as UICs are decommissioned, modified, or new UICs are installed. Significant changes to UIC systems will be reported to DEQ in the annual report for the calendar year in which the change occurred.

5.1.2 PBS (2015b)

PBS prepared a UIC Stormwater Management Plan that describes how the permittee (Reynolds School District #7) will manage and maintain stormwater features. The overall goal of the Management Plan is to protect groundwater by managing risks presented by various pollutants and pollutant sources. The Management Plan does not include any project site-specific information. The Management Plan details best management practices that include operations and maintenance, spill protection, pollution prevention and good housekeeping, employee education, public outreach, and recordkeeping responsibility.

The Management Plan includes protocol for the decommissioning of a UIC that includes a sampling plan, submitting for closure authorization, decommissioning the UIC, and a final closeout report.

5.1.3 PBS (2015c)

PBS completed a District-wide UIC Stormwater Monitoring Plan to ensure that stormwater infiltration at the various Reynolds School District #7 facilities occurs in a manner that is protective of human health and the environment. The Stormwater Monitoring Plan presents UIC sampling procedures, including the chemical analytical program, to be implemented for each monitoring episode. The Stormwater Monitoring Plan also includes quality assurance/quality control procedures to ensure data quality and the reporting format to present data collected as part of the Stormwater Monitoring Plan. The Stormwater Monitoring Plan was implemented for three UICs, including one UIC at the Reynolds Middle School and two UICs at the Walt Morey Middle School. None of the UICs present on the project site are part of the Stormwater Monitoring Plan.

6.0 ENVIRONMENTAL RECORDS REVIEW

Federal, tribal, state, and local environmental records and databases were compiled according to 40 CFR Part 312 and ASTM Practice E 1527-13 for the project site and those facilities that currently or previously have occupied properties within the specified search distance from the

project site. Information contained in the records and databases was reviewed by GeoDesign to evaluate the potential for environmental impacts to the project site. The EDR report is presented in Appendix B.

6.1 PROJECT SITE

Based on our review of the EDR report, the project site was listed on the EPA FINDS database, the DEQ UIC and LUST databases, and the ICIS and ECHO databases. The EPA FINDS and ICIS listings are inventory or reference lists and do not imply a release, recognized environmental condition, or vapor encroachment condition at the project site.

The DEQ LUST database contains listings of sites with reported leaking UST incidents. According to the information in the EDR report, soil and groundwater contamination was encountered during a heating oil UST decommissioning in July 2001. The release was reported to DEQ and the incident was assigned LUST No. 26-01-6529. PBS provided a report and certification for the heating oil UST assessment and/or cleanup and DEQ subsequently registered the report and certification and closed its file on LUST No. 26-01-6529 in a letter dated October 12, 2001. The DEQ letter accepting the PBS certification is presented in Appendix B. The closed LUST file represents an historical recognized environmental condition on the project site. The DEQ LUST file was requested from DEQ but has not been received as of the date of this report. Once received, the LUST file will be reviewed and an addendum letter to this report will be issued.

6.2 SURROUNDING SITES

The EDR report identified 26 surrounding sites listed on one or more regulatory databases within the ASTM search distances. Based on changes in ownership, address, multiple regulatory listings, and multiple regulatory actions, two or more of the surrounding site listings may actually represent only one physical location. Therefore, the number of surrounding sites is likely less than reported by EDR. Based on local topography, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and information contained in the regulatory databases, it is our professional opinion that none of the 26 sites should pose a risk of a recognized environmental condition at the project site. However, due to its close proximity to the project site, one of the listed sites is discussed in the following section.

6.2.1 Heating Oil Tank

The Heating Oil Tank site is located at 411 SE Harlow Avenue, northwest of the project site and at a lower elevation than the project site. The Heating Oil Tank site was listed on the DEQ LUST database (DEQ LUST File No. 26-02-5508). According to the information in the DEQ LUST database, soil contamination was encountered during a heating oil UST site assessment in 2006. A May 10, 2006 letter from DEQ to the property owner at 411 SE Harlow Avenue stated that Dana Thompson Tanks and Soil was offering to complete additional work at no cost to the homeowner for correcting a previous improperly performed cleanup at this property. The file remains open. Although this file has not been closed by DEQ, impacts were reportedly limited to soil only. Based on the limited extent of impacts to soil only, the apparent lack of groundwater impact, and the distance from the project site, it is our professional opinion that the risk of a recognized

environmental condition or vapor encroachment condition to the project site from the Heating Oil Tank site is low. The DEQ letter to the property owner at 411 SE Harlow Avenue is presented in Appendix B.

6.3 ORPHAN SITES

Due to poor or inadequate address information, EDR was unable to successfully map two facilities identified on several environmental databases. However, enough information was available to ascertain the general location of these orphan facilities relative to the project site and, in some cases, the status of the investigations concerning these orphan sites. Based on the location of the orphan sites, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and information contained in the regulatory databases, it is our professional opinion that these two orphan sites should not pose a risk of a recognized environmental condition at the project site.

7.0 PROJECT SITE HISTORY AND BACKGROUND

Reasonably ascertainable information concerning the history and background of the project site begins in 1912 and includes aerial photographs, USGS topographic maps, reverse city directories, Sanborn fire insurance maps, online property information (including available building department records, property tax information, zoning and land use records), and personal knowledge of individuals familiar with the project site.

Historical aerial photographs for the project site were obtained from the University of Oregon in Eugene, Oregon, and were reviewed by GeoDesign. The scale of the photographs reviewed allowed for the interpretation of general site development/configuration but did not allow for the identification of specific project site features. Aerial photographs were reviewed for the following years: 1935, 1948, 1951, 1960, 1970, 1981, 1990, 2001, 2005, and 2012. The historical aerial photographs are presented in Appendix C.

Historical topographic maps of the project site were obtained from EDR to evaluate past uses of the project site. Topographic maps were reviewed for the following years: 1918, 1941, 1954, 1961, 1970, 1975, 1996, and 2013. The historical topographic maps are presented in Appendix C.

Reverse city directories for the project site and adjacent properties were obtained from EDR. The city directories were reviewed (if available) at approximately five-year intervals for the years spanning 1924 through 2013. The EDR City Directory Abstract is presented in Appendix C.

Sanborn fire insurance maps for the project site were obtained from EDR and reviewed by GeoDesign. Sanborn fire insurance maps were reviewed for the following years: 1925 and 1931. The Sanborn fire insurance maps are presented in Appendix C.

Online property information for the project site and select adjacent properties was reviewed by GeoDesign. The online property information is presented in Appendix C.

7.1 PROJECT SITE

Based on the review of historical sources cited in Section 7.0, we have identified the following developmental history of the project site:

Year	Observations	Source
1912 through 1935	The project site was developed with a central elementary school structure, constructed in 1912 on Tax Lot 00400, with playfields to the north and south of the structure. The project site remained relatively unchanged through 1935.	• Sanborn Fire Insurance Maps • Aerial Photograph • Topographic Map • Online Property Information • Interview
1936 through 1955	An addition to the central school structure was constructed on the southern portion of the project site between 1945 and 1951 on Tax Lot 02200. A garage structure southwest across SE Harlow Avenue from the main school campus was also developed between 1945 and 1951 on non-contiguous Tax Lot 02000. The eastern portion of the main school campus was developed into paved playgrounds between 1951 and 1955.	• Aerial Photographs • Sanborn Fire Insurance Map • Topographic Maps • Online Property Information
1956 through 2016	An addition to the north of the central school structure was constructed between 1956 and 1960. During this same period of time, a baseball diamond was constructed on the northern portion of the project site on Tax Lot 02900. The project site was unchanged until the early 1990s when four connected modular classroom units were constructed behind the southern addition. The project site appears relatively unchanged since 1994.	• Aerial Photographs • Topographic Maps • City Directories • Online Property Information • Site Reconnaissance

Our review of historical sources from 1912 through 2016 indicated that the project site has been utilized as a public elementary school since its construction in 1912. Additions to the original public school structure, including paved playgrounds, were made between 1945 and 1951 and between 1956 and 1960. A garage structure used for school district storage was developed on non-contiguous Tax Lot 02000, across SE Harlow Avenue, between 1945 and 1951. Modular classroom units were placed on site in the early 1990s. The project site appeared relatively unchanged from 1994 to the present.

7.2 ADJOINING SITES

Based on the review of historical sources cited in Section 7.0, we have identified the following developmental history of properties adjoining the project site:

Year	Observations	Source
1918 through 1984	The properties adjoining the project site were primarily residential use to the north, west, and southwest. Undeveloped forested land was present to the east and southeast of the project site. South of the project site was agricultural-use land, primarily used for row crops.	• Sanborn Fire Insurance Maps • Aerial Photographs • Topographic Maps • City Directories • Online Property Information
1985 through 1994	Adjoining properties to the north, west, and southwest of the project site were continuously developed for residential use. Major residential development of the land southwest of the project site occurred between 1990 and 1994. The forested land and agricultural- use land to the east, southeast, and south of the project site remained unchanged.	• Aerial Photographs • City Directories
1995 through 2016	Residential use increased on the properties adjoining the project site after 1995. The land to the south of the project site was fully developed for residential use between 1995 and 2001. Forested land adjoining the project site to the west and southwest remained undeveloped. The adjoining properties have remained relatively unchanged through 2016.	• Aerial Photographs • Topographic Maps • City Directories • Site Reconnaissance

Our review of historical sources from 1918 through 2016 indicated that properties adjoining the project site were primarily residential use to the north and west and unused forested land and agricultural use to the east and south. Residential development increased on all adjoining properties north, west, and south of the project site throughout the years, reaching full capacity in approximately 2001. The forested land to the east of the project site remains unused.

8.0 SITE RECONNAISSANCE

GeoDesign conducted a reconnaissance of the project site on March 22, 2016. The observations noted in this section apply to the project site as it appeared on that day. The site reconnaissance was performed to observe the current condition of the project site and to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the project site. Access to the project site and its structures was unlimited. The adjoining properties were also observed from the boundaries of the project site as part of the site reconnaissance. A site plan is provided on Figure 2. Photographs of the project site were taken to document observations made during the reconnaissance and are presented on Figures 3 through 5.

8.1 GENERAL PROJECT SITE USE

The project site encompasses approximately3.45 acres at 648 SE Harlow Avenue in Troutdale, Oregon. The project site is currently owned by Reynolds School District #7 and includes contiguous Tax Lots 02900, 00400, 02200 and non-contiguous Tax Lot 02000, across SE Harlow Avenue, of Multnomah County Tax Map 251N3E OL. The project site is currently occupied by a

single-story public elementary school structure with a partial basement, playgrounds, a playfield with a baseball diamond, and associated paved parking and landscaped areas. In addition, the project site includes a garage structure with associated paved parking and landscaped areas, used for school district storage, located southwest of the school structure across SE Harlow Avenue on non-contiguous Tax Lot 02000.

8.1.1 Site Drainage

Surface water at the project site is expected to infiltrate into the ground surface or flow to catch basins in the paved portions of the project site. GeoDesign personnel did not observe surface water at the project site at the time of our site reconnaissance. Roof drains are reportedly connected to the active dry well located in the southeast portion of the project site.

8.1.2 Project Site Structures

The main project site structure is a single-story, concrete structure with a concrete foundation that encompasses 29,664 square feet across contiguous Tax Lots 02900, 00400 and 02200. The southern addition includes a basement encompassing 19,750 square feet. The structure on non-contiguous Tax Lot 02000 is of concrete block construction with a concrete foundation encompassing approximately 1,934 square feet. In addition, there are four connected wood modular classroom units placed on the property that encompass approximately 4,346 square feet.

8.1.3 Potable Water Supply

Potable water is supplied to the project site by City of Troutdale.

8.1.4 Sewage Disposal System

Sewage generated at the project site is discharged to the City of Troutdale municipal sewer system.

8.1.5 Hazardous Substances and Petroleum Products

During the site reconnaissance, GeoDesign personnel observed paints and general cleaning supplies stored in the custodial closets, the boiler room area, the kitchen area, and the basement storage area under the library. In addition, a 5-gallon gasoline container and several 1-gallon containers of oil were observed in the backup generator shed. Evidence of leaks or spills was not observed in the vicinities of these containers.

8.1.6 Storage Tanks

Evidence of up to three possible USTs was observed on the project site. Two of the USTs appear to be related to two boilers located within the main school structure and one of the USTs appears to be related to a heating unit present in the storage building present on Tax Lot 02000. Evidence for these possible USTs included fill port covers in the asphalt pavement and vent pipes attached to building exterior walls. One of the USTs has been decommissioned in-place. The DEQ file for the decommissioned UST (LUST No. 26-01-6529) has been ordered from DEQ but has not been received by GeoDesign as of the date of this report. An addendum will be provided after receipt and review of the DEQ file. The locations of the decommissioned UST and the two possible USTs are shown on Figure 2. Evidence of ASTs was not observed on the project site.

8.1.7 Drums and Containers

Cleaning supplies were observed in 5-gallon buckets. Evidence of leaks or spills was not observed in the vicinity of these buckets. In addition to the cleaning supplies found at various locations in the school noted in Section 8.1.5, the following containers/drums were observed:

- A blue, plastic, 30-gallon partially full drum labelled Perchlor Sanitizer and a 10-gallon container labelled Franklin Speedsoap was observed in the warehouse building.
- A 20-gallon, plastic drum labelled Chemsearch 585 Boiler Water Treatment (sodium hydroxide) and a 30-gallon, plastic drum marked "corrosive" were observed in the boiler room of the main school building.

Evidence of spills or leaks was not observed associated with these drums and containers.

8.1.8 Unidentified Substance Containers

Unidentified substance containers suspected of containing hazardous substances or petroleum products were not observed on the project site.

8.1.9 Odors

Strong, pungent, or noxious odors were not observed on the project site.

8.1.10 Pools of Liquid

Pools of liquid were not observed on the project site.

8.1.11 PCB-Containing Equipment

One pad-mounted transformer was observed east of the modular classrooms. The transformer contained a green label indicating it does not contain PCBs. We did not observe evidence of leakage from this transformer.

8.1.12 Pits, Ponds, and Lagoons

Pits, ponds, or lagoons were not observed on the project site.

8.1.13 Stained Soil or Stained Pavement

Stained soil or stained pavement was not observed on the project site.

8.1.14 Stressed Vegetation

Stressed vegetation was not observed on the project site.

8.1.15 Solid Waste

Solid waste generated at the project site is stored in dumpsters located near the east side of the central school building prior to pick up and disposal. Surface staining was not observed beneath the waste receptacles.

8.1.16 Waste Water

Waste water was not observed on the project site.

8.1.17 Wells

A dry well accommodating drainage in the southeast portion of the project site was observed during the site reconnaissance. Evidence of an additional dry well was observed in the playfield (Figure 4). According to the PBS Reynolds School District System Wide Assessment, one active dry well is located east of the modular classroom structures and two inactive dry wells are located near the northern portion of the main school building and in the playfield, respectively. The approximate locations of the active and inactive dry wells as shown in the PBS System Wide Assessment are shown on Figure 2.

8.1.18 Septic Systems

We did not observe evidence of a septic system during our site reconnaissance. However, according to the EDR report, one septic system is present on the project site and has been plugged and abandoned.

8.1.19 Fill

Evidence of fill was not observed on the project site.

8.1.20 Heating and Cooling Systems

The project site structures are heated by steam heat, provided by two natural gas-fired boilers (converted from oil), one located in the northern gym area and the other in the original portion of the building. The project site is cooled by electric-powered cooling units located in the library and on the modular classrooms.

8.1.21 Interior Stains or Corrosion

Interior stains or corrosion was not observed in the project site structures.

8.1.22 Interior Drains or Sumps

Interior drains and sumps were observed in the project site structures. These included a sump located in the northeast corner of the library basement storage area, floor drains in the restroom areas and boiler room, and floor drains in locker rooms that were filled with concrete when they were converted to classrooms. In addition, a grease trap was observed in the kitchen area.

8.2 SURROUNDING PROPERTY USE

Tax Lots 02900, 00400, and 02200 of the project site are directly bound to the north by SE 5th Street, across which are single-family residences; to the east by vacant land and SE Sandy Avenue, across which is Harlow Canyon; to the south by SE Sandy Avenue, across which are single-family residences; and to the west by SE Harlow Avenue, across which are single-family residences. Tax Lot 02000 of the project site is bound to the north by a residence, to the east by SE Harlow Avenue and Troutdale Elementary School, to the south by SE Sandy Avenue and residences, and to the east by a residence. Evidence of adverse environmental conditions was not observed on adjacent properties

9.0 INTERVIEWS

The project site is currently owned by Reynolds School District #7 and occupied by Troutdale Elementary School. GeoDesign interviewed a representative of the owner/occupant during the course of this study. Information obtained from this interview is presented in the following section.

9.1 CURRENT OWNER'S REPRESENTATIVE

Mr. Jon Gotchall (maintenance technician) with the Reynolds School District #7 was interviewed on March 14, 2016 and also completed a Phase I Environmental Site Assessment Questionnaire. According to Mr. Gotchall, he has been familiar with Troutdale Elementary School for at least ten years. Mr. Gotchall noted that he was not aware of the project site or adjacent properties being used for industrial purposes. He also stated that he was not aware of USTs, imported fill material, hazardous materials usage, or environmental liens associated with the project site. Mr. Gotchall noted that the project site has dry wells and directed us to the reports prepared by PBS and summarized in Section 5.1. Mr. Gotchall noted that he did not think the property had been used for agricultural purposes in the past and he was not aware of previously completed Phase I ESAs for the property or existing environmental permits.

10.0 DATA GAPS

Data gaps were not encountered during the course of this study.

11.0 CONCLUSIONS AND RECOMMENDATIONS

GeoDesign performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 and all appropriate inquiries specified in 40 CFR Part 312 and the proposal to Reynolds School District #7 dated February 24, 2016 for the Troutdale Elementary School located at 648 SE Harlow Avenue in Troutdale, Oregon. Any exceptions to or deletions from this practice are described in Sections 3.0 and 13.0. This assessment has revealed the following:

- According to the information in the EDR report, soil and groundwater contamination was encountered during a heating oil UST decommissioning on the project site in July 2001. The release was reported to DEQ and the incident was assigned LUST No. 26-01-6529. PBS provided a report and certification for the heating oil UST removal and/or cleanup and DEQ subsequently registered the report and certification and closed its file on LUST No. 26-01-6529 in a letter dated October 12, 2001. The closed LUST file represents an historical recognized environmental condition on the project site. The DEQ LUST file was requested from DEQ but has not been received as of the date of this report. Once received, an addendum to the Phase I ESA will be prepared, which will summarize the LUST file review.
- Two additional possible USTs were observed on the project site, one formerly associated with a boiler located in the main school building and one associated with an oil furnace in the storage building on Tax lot 02000, across SE Harlow Avenue from the main school campus. These additional USTs represent a possible recognized environmental condition on the project site. If the USTs will not be used in the future, they should be properly decommissioned in accordance with state and local regulations.

- Because of the possibility of encountering residual impacted soil associated with the project site USTs during upcoming site construction activities, it would be prudent to prepare a Contaminated Media Management Plan, which will describe the proper protocol for handling, management, characterization, and disposal of possible impacted media.
- The presence of chemicals and hazardous substances stored in small-quantity containers and drums at the project site likely does not represent a recognized environmental condition at the project site. The majority of the materials observed appeared to be properly stored and evidence of leaks or spills was not observed in the vicinity of these containers. However, these containers should be removed from the project site and properly disposed of prior to redevelopment of the project site.
- There is one active and two inactive UICs systems associated with the project site. These UIC systems should be properly registered and/or decommissioned in accordance with state and local regulations prior to site redevelopment. If chemical or hazardous material disposal is evident in any of the UICs, soil samples should be collected from appropriate locations in or adjacent to these systems.
- Historical septic systems, if found during upcoming construction, should be properly abandoned in accordance with state and local regulations.
- Although water wells were not identified on the project site, because of the age of the school it is possible water wells exist on the property. If any water wells are found during upcoming site redevelopment activities, they should be abandoned in accordance with Oregon Water Resources Department regulations.

This scope of work did not include the completion of surveys for lead-based paint, asbestos-containing materials, or other hazardous building materials in the on-site structures. We understand these services have been completed by others.

12.0 DECLARATIONS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the project site. We developed and performed all the appropriate inquiries in accordance with the standards and practices set forth in 40 CFR Part 312.

13.0 LIMITATIONS

This Phase I ESA has been prepared for use by Reynolds School District #7. GeoDesign makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others. The information presented in this report is based on the above-described research and a single recent site visit. Information provided by others was relied on in our description of historical conditions and review of regulatory databases and files. The available data do not provide definitive information with regard to all past uses, operations, or incidents at the project site or adjacent properties. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property. There is always a potential that areas with contamination that were

not identified during this Phase I ESA exist at the project site or in the study areas. Further evaluation of such potential would require additional research, subsurface exploration, sampling, and/or testing.

Some substances may be present in the project site vicinity in quantities or under conditions that may have led or may lead to contamination of the project site but are not included in current local, state, or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoDesign cannot be responsible if the standards of all appropriate inquiry or regulatory definitions of hazardous substance change or if you are required to meet more stringent standards in the future.

This report is not intended for use by others, and the information contained herein is not applicable to other sites. Reliance on this report by other parties is strictly at the risk of those parties, and GeoDesign will grant no third party reliance unless specifically requested in writing by our client for whom this report was prepared.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted environmental science practices for Phase I ESAs in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

♦ ♦ ♦

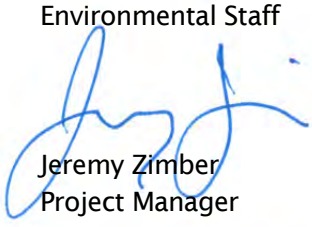
We appreciate the opportunity to be of service to Reynolds School District#7. Please call if you have questions regarding this report.

Sincerely,

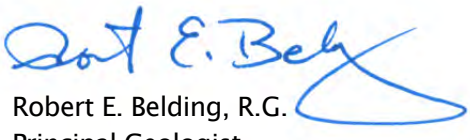
GeoDesign, Inc.



Andre D. DeJonge
Environmental Staff

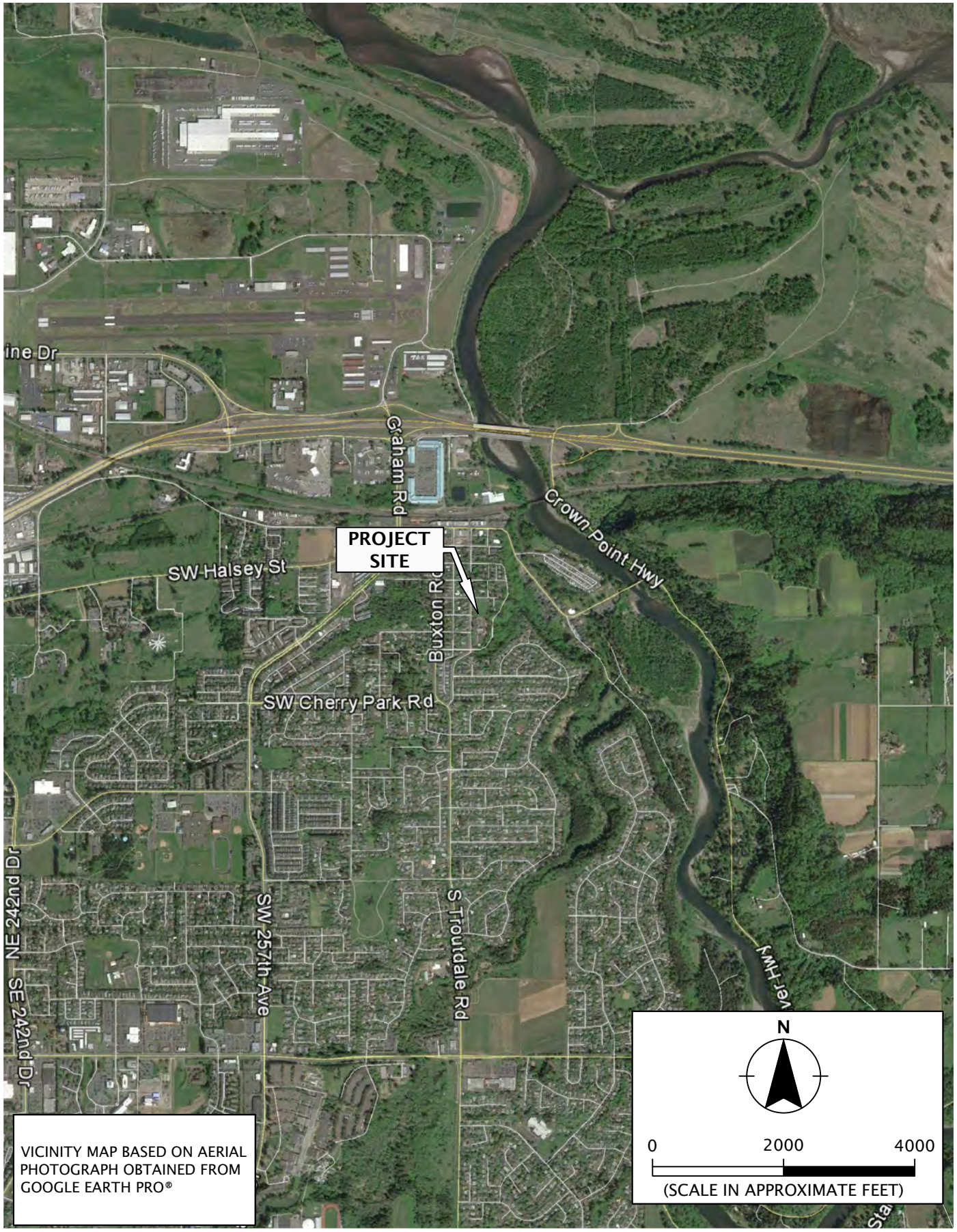


Jeremy Zimber
Project Manager



Robert E. Belding, R.G.
Principal Geologist

FIGURES

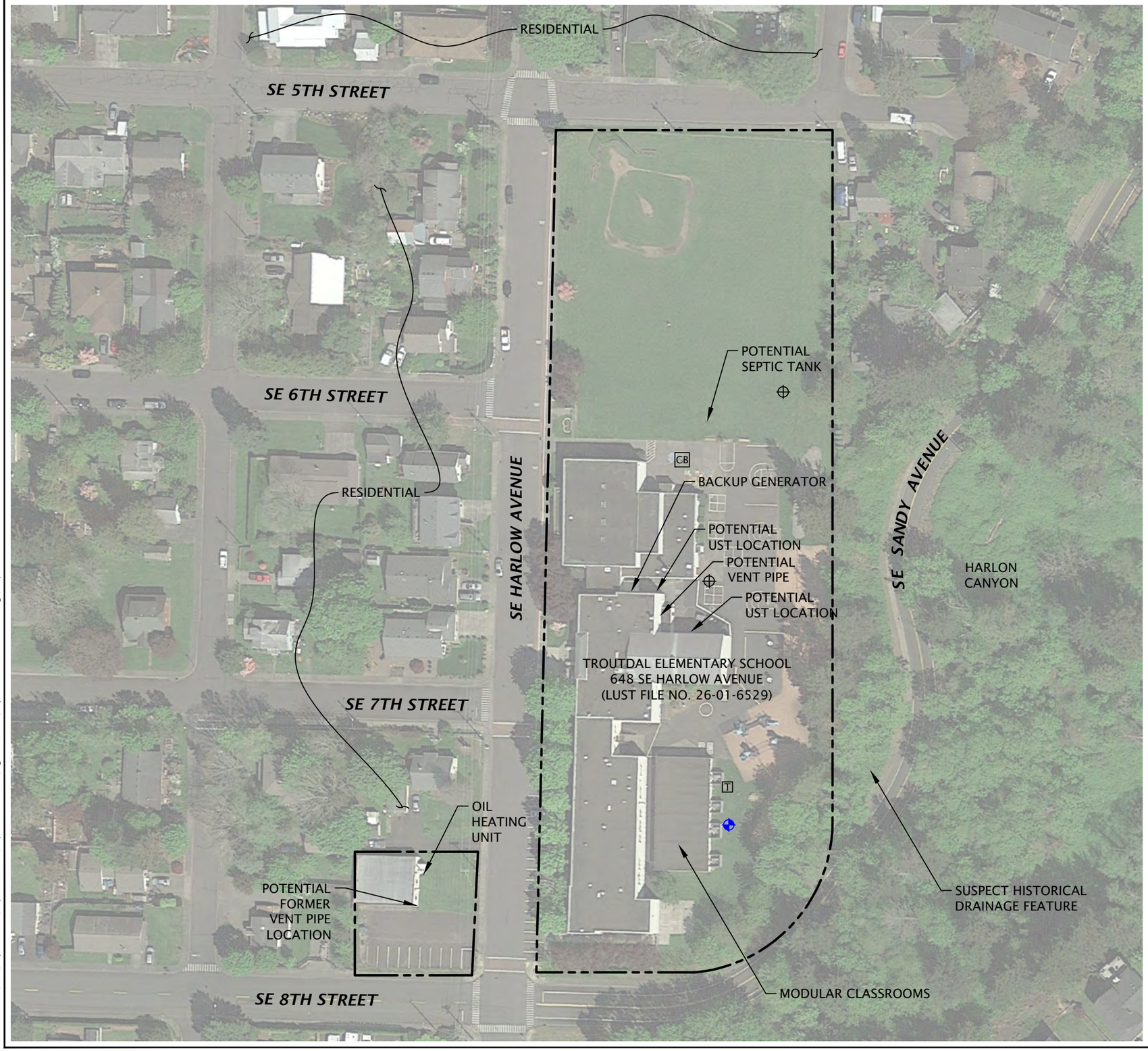


VICINITY MAP BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-4-02	**VICINITY MAP**	
APRIL 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE 1**

Printed By: aday | Print Date: 4/12/2016 11:42:10 AM
File Name: J:\M-R\reynoldssd\reynoldssd-4\reynoldssd-4-02\Figures\CAD\ReynoldsSD-4-02-VM01.dwg | Layout: FIGURE 1



LEGEND:

- CB — CATCH BASIN
- T — PAD-MOUNTED TRANSFORMER
- DRY WELL (ACTIVE)
- DRY WELL (INACTIVE)
- PROJECT SITE BOUNDARY

N

0 80 160

(SCALE IN FEET)

SITE PLAN BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®, MARCH 29, 2016

SITE PLAN

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE 2

REYNOLDSSD-4-02

APRIL 2016

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File Name: J:\M-R\ReynoldsSD\ReynoldsSD-4\ReynoldsSD-4-02\Figures\CAD\ReynoldsSD-4-02-SP01.dwg | Layout: FIGURE 2



VIEW OF TROUTDALE ELEMENTARY FROM SE HARLOW AVENUE. PHOTOGRAPH TAKEN FACING NORTHEAST.



VIEW OF THE GROUND SURFACE ABOVE THE DECOMMISSIONED UST IN REAR OF PROJECT SITE. PHOTOGRAPH TAKEN FACING SOUTHWEST.

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REYNOLDSSD-4-02	**PROJECT SITE PHOTOGRAPHS**	
APRIL 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE 3**



VIEW OF POSSIBLE DRY WELL IN NORTHERN PORTION OF THE PLAYFIELD. PHOTOGRAPH TAKEN FACING SOUTHWEST.



BOILER IN MAIN SCHOOL BUILDING OF PROJECT SITE. CONVERTED FROM OIL TO NATURAL GAS.

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REYNOLDSSD-4-02	**PROJECT SITE PHOTOGRAPHS**	
APRIL 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE 4**



VIEW OF STORAGE GARAGE ON NON-CONTIGUOUS TAX LOT 02000 FROM SE 8TH STREET. PHOTOGRAPH TAKEN FACING NORTHEAST.

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Portland OR 97224
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REYNOLDSSD-4-02	**PROJECT SITE PHOTOGRAPHS**	
APRIL 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE 5**

APPENDIX A

GEODESIGN INC

FIRM PROFILE

Employee-owned and founded in 1997, GeoDesign provides geotechnical engineering, environmental, geological, mining, and pavement design consulting services from offices in Portland and Salem, Oregon; Vancouver, Seattle, Longview, and Tacoma, Washington; and Anaheim, California. Our team consists of more than 75 engineers, geologists, engineering geologists, environmental scientists, technical personnel, and administrative staff.

From planning and design through construction, we offer consulting services in support of commercial and residential developments, industrial facilities, property transactions, regulatory compliance, and transportation and water infrastructure systems. GeoDesign works on all phases of project development, including preliminary studies for due diligence, master planning studies, siting of new structures and utility and road alignments, regulatory studies (such as NEPA documents), comprehensive investigations for final geotechnical design, oversight of environmental clean-up activities, and construction observation and testing.

We value our client relationships and are dedicated to offering exemplary service. Our focus on communication and collaboration enables us to develop a targeted approach for our clients' project needs and objectives. In providing recommendations, we clearly present the issues, alternatives, and risks in order to assist our clients in making informed decisions. As a result, much of our business comes from repeat clients and referrals.

GEODESIGN INC

ROBERT E. BELDING, RG, LG

Principal Geologist

Bob Belding is an environmental and geological expert with more than 31 years of experience managing a diverse range of projects throughout the Pacific Northwest. His experience includes Phase I and II ESAs, site characterizations, remedial investigation/feasibility studies, design and implementation of remedial actions, and close coordination with regulatory agencies. In addition, Bob serves as an expert witness and provides senior technical review of peer and other consultants' work.

Key Projects

- South Waterfront Development – Various Projects; Portland, OR
- Proposed LaVelle Landfill Development; Portland, OR
- Dorena Dam Hydroelectric Project; Lane County, OR
- City of Portland Bureau of Environmental Services, Phase II Sewer Rehabilitation Program – Rose City Park; Portland, OR
- USDA Forest Service, On-Call Hazardous Materials Services; OR and WA
- Washington County Facilities Management; On-Call Environmental Services Contract; OR
- 333 High Street NE (Sunset Center Site); Portland, OR
- Sexton Mountain Development (former Cobbs Quarry); Beaverton, OR
- City of Salem, Minto Island Pedestrian/Bicycle Bridge; Salem, OR
- Bridgeport Village Development (former Durham Quarry); Tigard/Tualatin, OR
- Ross Island Sand & Gravel Reclamation; Portland, OR
- Former Koch's Cleaners; Beaverton, OR
- The Civic Redevelopment; Portland, OR
- David Douglas School District, David Douglas High School Pool; Portland, OR
- Confederated Tribes of the Umatilla Indian Reservation, Former Landfill Area; Pendleton, OR
- Washington County, SW Greenburg Road/SW Main Street and Highway 99W Intersection Alignment; Tigard, OR
- Oregon Military Department, Field Maintenance Shop; Salem, OR
- Bellevue Towers; Bellevue, WA
- Bellevue School District, Ardmore Elementary School; Bellevue, WA
- Bellevue School District, Bellevue High School Modernization Project; Bellevue, WA
- Proposed 316 Alaskan Way Development; Seattle, WA
- 412 Broadway Apartments (Barclay Broadway); Seattle, WA
- 1800 West Fourth Plain Boulevard Site; Vancouver, WA
- Proposed Totem Lake Mall Development; Kirkland, WA
- West 11th Street and Grand Avenue Condominiums; Los Angeles, CA
- 616 Esplanade Apartments; Redondo Beach, CA
- Wilshire Center; Los Angeles, CA
- 512 Rose Avenue Mixed-Use Development (former Pioneer Bakery Site); Venice, CA
- The Beach Club; Santa Monica, CA
- 1710 Webster Street Site; Oakland, CA

Credentials/Certifications

BS, Geology, California State University, Humboldt, 1979
Registered Geologist, OR
Licensed Geologist, WA
Oregon Association of Environmental Professionals

GEODESIGN INC

JEREMY M. ZIMBER

Project Manager

Jeremy Zimber has more than 12 years of consulting experience focused primarily on environmental due diligence and remediation, environmental compliance, environmental laboratory analysis, asbestos and lead identification, and abatement. Jeremy has conducted hazardous building materials assessments and overseen abatement efforts. He has also conducted pre-demolition surveys of buildings for both asbestos-containing materials and lead-based paint. In addition, Jeremy has conducted hundreds of Phase I ESAs nationwide for the real estate and financial industries, ranging from residential to manufacturing facilities.

Key Projects

- Clackamas County, Otty Street Realignment Project; Clackamas County, OR
- Washington County, SW Roy Rogers Road and SW Scholls Ferry Road Traffic Signals; and SW Tile Flat Road and SW Scholls Ferry Road Intersection; Washington County, OR
- New Westside Christian High School; Tigard, OR
- Pacific Northwest College of Art, Proposed GSA Building Renovation; Portland, OR
- City of Lake Oswego, Foothills District Framework Plan; Lake Oswego, OR
- The Oregonian Building; Portland, OR
- Block 296 Site (NW 22nd Avenue and NW Raleigh Street); Portland, OR
- Proposed Lowes - Comprehensive Design-Level Hazardous Material Survey; Albany, OR
- Manufacturing/Distribution Facility; Salem, OR
- SE 172nd and Sunnyside Commercial Development; Happy Valley, OR
- City of Portland Bureau of Environmental Services, Former Campbell Dry Cleaners; Portland, OR
- Coos Head Abatement and Demolition Project; Coos Bay, OR
- Washington County Facilities Management, Bridgeport Village Development (former Durham Quarry); Tigard/Tualatin, OR
- Broadway Retail Building – ACM Survey; Portland; OR
- Proposed Development – 1951 SW 6th Avenue; Portland, OR
- West Bearing Housing Project; Portland, OR
- South Waterfront – Blocks 37 and 43; Portland, OR
- Colwood Industrial Park; Portland, OR
- South Cooper Mountain Site; Beaverton, OR
- ODOT/City of Tigard, SW Main Street – Highway 99 to Railroad Corridor; Tigard, OR
- Lake-Oswego-Tigard Water Partnership, Water Supply System Expansion; Clackamas/Washington County, OR
- Capitol Mall Road Site ; Olympia, WA
- 316 Alaskan Way Site; Seattle, WA
- Proposed Corona Medical Center Expansion; Corona, CA
- 1200 Ashby Avenue Site; Berkeley, CA

Credentials/Affiliations

BS, Environmental Management, Rochester Institute of Technology, 1999
AHERA Building Inspector and Project Designer
HAZWOPER Training and Annual Updates
CCB Lead-Based Paint Inspector
Respirator Fit Test

GEODESIGN INC

ANDRÉ DEJONGE

Environmental Staff

With more than 10 years of work experience, André DeJonge is supporting GeoDesign's environmental group with Phase I ESAs, hazardous materials corridor studies, and field testing, including water well sampling, soil sampling, and VOC vapor sampling. He joined GeoDesign in February 2016.

Prior to relocating to the Pacific Northwest, André worked as operations manager with Standard Architects in Brooklyn, New York. He has also held positions with the Parts Authority in Brooklyn, where he maintained warehouse organization and enforced OSHA regulations; and at the Property Room on Long Island, where he managed employees in six different departments of this national New York state based, police auction website. Through his past experience, he has developed skills in complex problem solving, critical thinking, cross-functional team management, operations management, and employee training and development.

Key Projects

- 4401 NE Martin Luther King Jr. Boulevard Site; Portland, OR
- 1710 Webster Street Site; Oakland, CA
- Portland Development Commission, MESO Site; Portland, OR
- Reynolds School District, Reynolds High School; Troutdale, OR
- Reynolds School District, Troutdale Elementary School; Troutdale, OR
- 819 NE 122nd Avenue Site; Portland, OR
- The Vancouver Clinic – Salmon Creek Facility Expansion; Vancouver, WA
- Washington County Department of Land Use & Transportation, Elwert Road and Kruger Road Intersection; Washington County, OR
- Washington County Department of Land Use and Transportation, SW 124th Avenue Extension Project; Washington County, OR
- Washington County Facilities Management, Emergency Response Fuel Release (NW Cornelius Pass & NW Germantown Road); Unincorporated Washington County, OR

Credentials/Certifications

Associates of Liberal Arts, SUNY Farmingdale, 2005
HAZWOPER Training
HAZMAT Certificate of Training Safety & Transportation of Nuclear Density Gauges

APPENDIX B

Troutdale Elementary School
648 SE Harlow Avenue
Troutdale, OR 97060

Inquiry Number: 4560264.2s
March 10, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

648 SE HARLOW AVENUE
TROUTDALE, OR 97060

COORDINATES

Latitude (North):	45.5368560 - 45° 32' 12.68''
Longitude (West):	122.3858360 - 122° 23' 9.00''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	547952.8
UTM Y (Meters):	5042557.0
Elevation:	228 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5992265 CAMAS, WA
Version Date:	2013
Northeast Map:	5992255 WASHOUGAL, WA
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120706, 20110817
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
648 SE HARLOW AVENUE
TROUTDALE, OR 97060

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	TROUTDALE ELEMENTARY	648 SE HARLOW ST	RGA LUST		TP
A2	TROUTDALE ELEMENTARY	648 S.E. HARLOW	ICIS, FINDS, ECHO		TP
A3	HEATING OIL TANK	648 SE HARLOW ST	RGA LUST		TP
A4	HEATING OIL TANK	648 SE HARLOW ST	LUST, UIC		TP
5	HEATING OIL TANK	245 SE 5TH STREET	LUST	Lower	463, 0.088, NNW
6	HEATING OIL TANK	411 SE HARLOW AVE	LUST	Lower	545, 0.103, NNW
7	WASTE WATER MANAGEME	320 NE HARLOW STREET	SWF/LF	Lower	904, 0.171, North
8	HEATING OIL TANK	107 SW 4TH ST	LUST	Lower	945, 0.179, NW
9	TROUTDALE SAND & GRA	645 E HISTORIC COLUM	LUST, UST	Lower	1261, 0.239, NNE
10	HEATING OIL TANK	105 SW 2ND	LUST	Lower	1352, 0.256, NNW
11	HEATING OIL TANK	141 SE DORA ST	LUST	Lower	1360, 0.258, NNW
12	BENNETT PROPERTY	NEAR CONFLUENCE OF B	ECSI	Lower	1510, 0.286, NE
13	HEATING OIL TANK	231 SW CHERRY PARK R	LUST, NPDES	Higher	1572, 0.298, SW
B14	NEIL HANDY PROPERTY	146 W. HISTORIC COLU	US BROWNFIELDS, FINDS, ECHO	Lower	1631, 0.309, NNW
B15	HANDY BROTHERS SERVI	146 W COLUMBIA	LUST, UST	Lower	1642, 0.311, NNW
16	TROUTDALE RIVERFRONT	302, 320, AND 410 NW	ECSI, VCP, BROWNFIELDS	Lower	2006, 0.380, North
17	TROUTDALE RIVERFRONT	302, 320, AND 410 NW	US BROWNFIELDS, FINDS, ECHO	Lower	2200, 0.417, North
18	ODOT - SANDY RIVER D	INTERSTATE 84, EXIT	ECSI, VCP	Lower	2759, 0.523, NNE
19	LOVE'S TRAVEL STOP #	400 NW FRONTAGE RD	ECSI, LUST, UST, AST, SPILLS, OR HAZMAT, HSIS	Lower	3093, 0.586, NNW
20	FRONTAGE ROAD DITCH	I-84 FRONTAGE RD. BE	ECSI	Lower	3840, 0.727, NW
21	GATEWAY ESTATES	1360 SW 257TH DR	ECSI, VCP, NPDES	Higher	3941, 0.746, WSW
22	AAR WESTERN SKYWAYS	PORTLAND TROUTDALE A	ECSI, CRL, LUST, RCRA NonGen / NLR	Lower	4513, 0.855, NNW
23	ODOT - I-84 AT TROUD	I-84 AND MARINE DR.	ECSI, VCP	Lower	4634, 0.878, NW
24	ACME RADIATOR	2016 HISTORIC COLUMB	ECSI, UIC	Lower	5203, 0.985, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
TROUTDALE ELEMENTARY 648 SE HARLOW ST TROUTDALE, OR	RGA LUST Facility ID: 26-01-6529	N/A
TROUTDALE ELEMENTARY 648 S.E. HARLOW TROUTDALE, OR 97060	ICIS FRS ID:: 110013688410 FINDS Registry ID:: 110013688410 ECHO	N/A
HEATING OIL TANK 648 SE HARLOW ST TROUTDALE, OR	RGA LUST Facility ID: 26-01-6529	N/A
HEATING OIL TANK 648 SE HARLOW ST TROUTDALE, OR 97060	LUST Facility ID: 26-01-6529 Cleanup Complete: 10/12/2001 UIC Facility Status: Applied for permit UIC Number: 10770	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
AST..... Aboveground Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Recorded at ESCI Sites
INST CONTROL..... Institutional Controls Recorded at ESCI Sites

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Facility Location Listing

HIST LF ---- Old Closed SW Disposal Sites
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- National Clandestine Laboratory Register
AOCONCERN ---- Columbia Slough
CDL ---- Uninhabitable Drug Lab Properties
US CDL ---- Clandestine Drug Labs

Local Land Records

LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
SPILLS ---- Spill Database
OR HAZMAT ---- Hazmat/Incidents
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ---- RCRA - Non Generators / No Longer Regulated
FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem

US MINES - Mines Master Index File
AIRS - Oregon Title V Facility Listing
COAL ASH - Coal Ash Disposal Sites Listing
DRYCLEANERS - Drycleaning Facilities
Financial Assurance - Financial Assurance Information Listing
HSIS - Hazardous Substance Information Survey
MANIFEST - Manifest Information
NPDES - Wastewater Permits Database
FUELS PROGRAM - EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP - EDR Proprietary Manufactured Gas Plants
EDR Hist Auto - EDR Exclusive Historic Gas Stations
EDR Hist Cleaner - EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS - Recovered Government Archive State Hazardous Waste Facilities List
RGA LF - Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

CRL: Sites that are or may be contaminated and may require cleanup.

A review of the CRL list, as provided by EDR, and dated 11/01/2015 has revealed that there is 1 CRL site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AAR WESTERN SKYWAYS	***PORTLAND TROUTDALE A***	***NNW 1/2 - 1 (0.855 mi.)***	***22***	***69***

Facility Status: State Basic Preliminary Assessment recommended (PA)

EXECUTIVE SUMMARY

Facility Id: 92

ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the ECSI list, as provided by EDR, and dated 01/01/2016 has revealed that there are 9 ECSI sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GATEWAY ESTATES Investigation: No Further Action State ID Number: 119	***1360 SW 257TH DR***	***WSW 1/2 - 1 (0.746 mi.)***	***21***	***63***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BENNETT PROPERTY Investigation: No Further Action State ID Number: 1048	NEAR CONFLUENCE OF B	NE 1/4 - 1/2 (0.286 mi.)	12	15
TROUTDALE RIVERFRONT Investigation: Suspect State ID Number: 5224	***302, 320, AND 410 NW***	***N 1/4 - 1/2 (0.380 mi.)***	***16***	***25***
ODOT - SANDY RIVER D Investigation: Suspect State ID Number: 4953	***INTERSTATE 84, EXIT***	***NNE 1/2 - 1 (0.523 mi.)***	***18***	***37***
LOVE'S TRAVEL STOP # Investigation: Suspect State ID Number: 4522	***400 NW FRONTAGE RD***	***NNW 1/2 - 1 (0.586 mi.)***	***19***	***38***
FRONTAGE ROAD DITCH Investigation: Suspect State ID Number: 4509	I-84 FRONTAGE RD. BE	NW 1/2 - 1 (0.727 mi.)	20	60
AAR WESTERN SKYWAYS Investigation: Listed on the CRL/Inventory State ID Number: 92	***PORTLAND TROUTDALE A***	***NNW 1/2 - 1 (0.855 mi.)***	***22***	***69***
ODOT - I-84 AT TROUD Investigation: Suspect State ID Number: 5836	***I-84 AND MARINE DR.***	***NW 1/2 - 1 (0.878 mi.)***	***23***	***79***
ACME RADIATOR Investigation: Suspect State ID Number: 4460	***2016 HISTORIC COLUMB***	***SE 1/2 - 1 (0.985 mi.)***	***24***	***81***

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environmental Quality's Closure & Regular Solid Waste Active Disposal Permits database.

A review of the SWF/LF list, as provided by EDR, and dated 10/21/2015 has revealed that there is 1

SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WASTE WATER MANAGEME Permit Status: Terminated Facility Id: 104220	320 NE HARLOW STREET	N 1/8 - 1/4 (0.171 mi.)	7	13

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's LUST Database List.

A review of the LUST list, as provided by EDR, and dated 10/01/2015 has revealed that there are 8 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HEATING OIL TANK Facility ID: 26-14-1258 Cleanup Complete: 02/03/2015	***231 SW CHERRY PARK R***	***SW 1/4 - 1/2 (0.298 mi.)***	***13***	***19***

Lower Elevation	Address	Direction / Distance	Map ID	Page
HEATING OIL TANK Facility ID: 26-04-0990 Cleanup Complete: 11/12/2004	245 SE 5TH STREET	NNW 0 - 1/8 (0.088 mi.)	5	13
HEATING OIL TANK Facility ID: 26-02-5508 Cleanup Complete: 07/30/2003	411 SE HARLOW AVE	NNW 0 - 1/8 (0.103 mi.)	6	13
HEATING OIL TANK Facility ID: 26-02-5944 Cleanup Complete: 07/25/2002	107 SW 4TH ST	NW 1/8 - 1/4 (0.179 mi.)	8	14
TROUTDALE SAND & GRA Facility ID: 26-93-0122 Cleanup Complete: 10/28/1993	***645 E HISTORIC COLUM***	***NNE 1/8 - 1/4 (0.239 mi.)***	***9***	***14***
HEATING OIL TANK Facility ID: 26-94-5108 Cleanup Complete: 05/09/1994	105 SW 2ND	NNW 1/4 - 1/2 (0.256 mi.)	10	14
HEATING OIL TANK Facility ID: 26-13-0840 Cleanup Complete: 07/23/2013	141 SE DORA ST	NNW 1/4 - 1/2 (0.258 mi.)	11	15
HANDY BROTHERS SERVI Facility ID: 26-93-0222 Cleanup Complete: 03/10/1994	***146 W COLUMBIA***	***NNW 1/4 - 1/2 (0.311 mi.)***	***B15***	***25***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's UST List on Disk.

A review of the UST list, as provided by EDR, and dated 10/01/2015 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TROUTDALE SAND & GRA Facility ID: 11245	***645 E HISTORIC COLUM***	***NNE 1/8 - 1/4 (0.239 mi.)***	***9***	***14***

State and tribal voluntary cleanup sites

VCP: Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

A review of the VCP list, as provided by EDR, and dated 01/05/2016 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TROUTDALE RIVERFRONT ECS Site ID: 5224	***302, 320, AND 410 NW***	***N 1/4 - 1/2 (0.380 mi.)***	***16***	***25***

State and tribal Brownfields sites

Brownfields investigations and/or cleanups that have been conducted in Oregon.

A review of the BROWNFIELDS list, as provided by EDR, and dated 11/01/2015 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TROUTDALE RIVERFRONT Status: Partial No Further Action envid: 5224	***302, 320, AND 410 NW***	***N 1/4 - 1/2 (0.380 mi.)***	***16***	***25***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/22/2015 has revealed that there

are 2 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

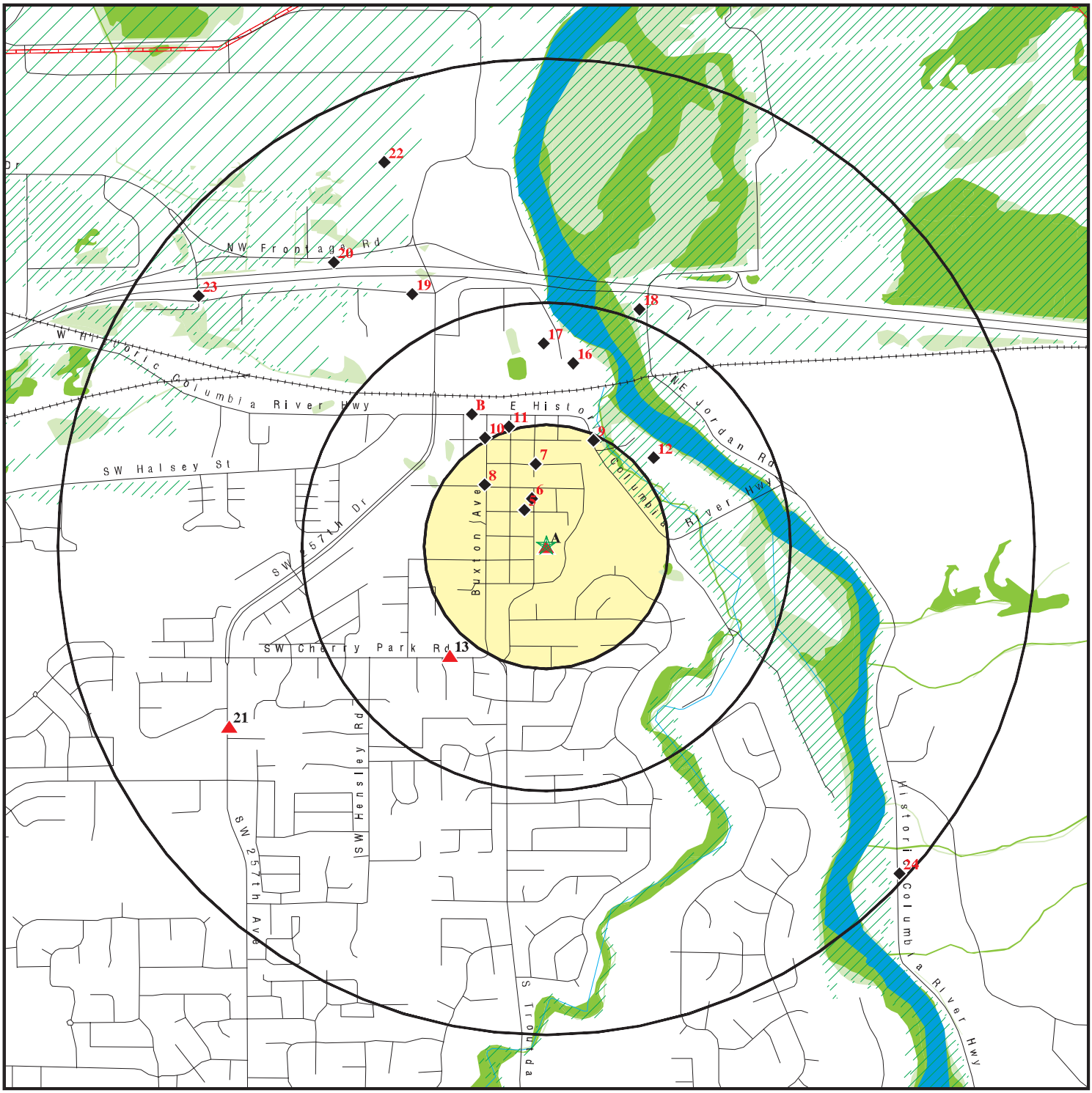
Lower Elevation	Address	Direction / Distance	Map ID	Page
NEIL HANDY PROPERTY	*146 W. HISTORIC COLU*	*NNW 1/4 - 1/2 (0.309 mi.)*	*B14*	*20*
TROUTDALE RIVERFRONT	*302, 320, AND 410 NW*	*N 1/4 - 1/2 (0.417 mi.)*	*17*	*32*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
TEDDY PEETZ	LUST
M & D AUTOMOTIVE	LUST, UST

OVERVIEW MAP - 4560264.2S



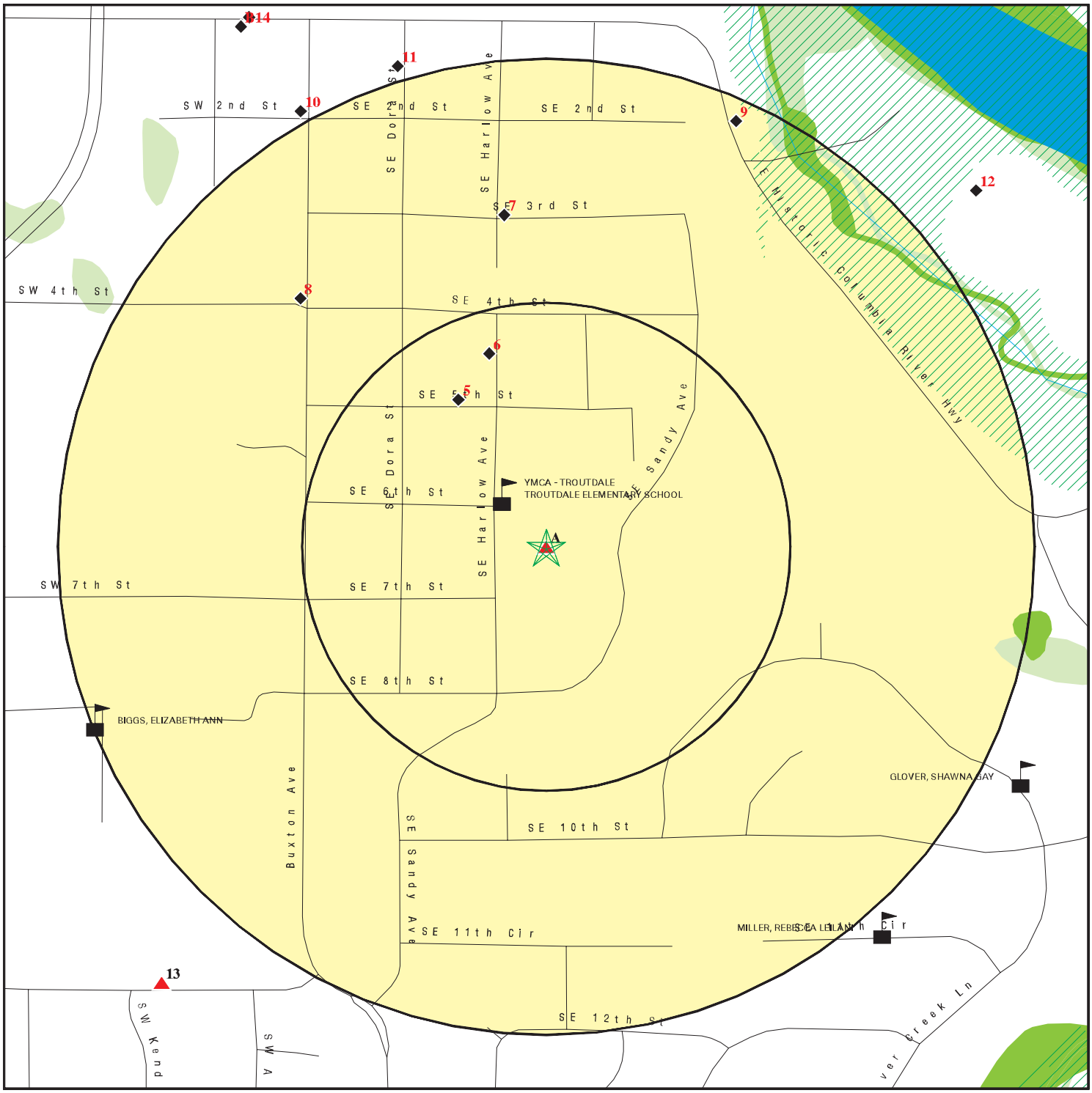
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Troutdale Elementary School ADDRESS: 648 SE Harlow Avenue Troutdale OR 97060 LAT/LONG: 45.536856 / 122.385836	CLIENT: GeoDesign Inc. CONTACT: Jeremy Zimber INQUIRY #: 4560264.2s DATE: March 10, 2016 8:54 am

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DETAIL MAP - 4560264.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Troutdale Elementary School	CLIENT: GeoDesign Inc.
ADDRESS: 648 SE Harlow Avenue Troutdale OR 97060	CONTACT: Jeremy Zimber INQUIRY #: 4560264.2s
LAT/LONG: 45.536856 / 122.385836	DATE: March 10, 2016 8:55 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERCLIS-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
CRL	1.000		0	0	0	1	NR	1
ECSI	1.000		0	0	2	7	NR	9
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500	1	2	2	4	NR	NR	9
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	1	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	2	NR	NR	2
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
OR HAZMAT	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HSIS	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP	1	NR	NR	NR	NR	NR	1
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	2	NR	NR	NR	NR	NR	2
- Totals --		7	2	4	10	8	0	31

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **TROUTDALE ELEMENTARY SHOP BUILDING** **RGA LUST** **S115423977**
Target **648 SE HARLOW ST** **N/A**
Property **TROUTDALE, OR**

Site 1 of 4 in cluster A

Actual:
228 ft.

RGA LUST:

2011	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2010	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2009	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2008	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2007	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2006	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2005	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2004	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2003	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST
2002	TROUTDALE ELEMENTARY SHOP BUILDING	648 SE HARLOW ST

A2 **TROUTDALE ELEMENTARY SCHOOL** **ICIS** **1006798452**
Target **648 S.E. HARLOW** **FINDS** **N/A**
Property **TROUTDALE, OR 97060** **ECHO**

Site 2 of 4 in cluster A

Actual:
228 ft.

ICIS:

Enforcement Action ID:	10-2001-0002
FRS ID:	110013688410
Program ID:	OR-DEQ 39195
Action Name:	REYNOLDS SCHOOL DISTRICT
Full Address:	648 SE HARLOW AVENUE TROUTDALE OR 97060-2164
State:	Oregon
Facility Name:	TROUTDALE ELEMENTARY SHOP BUILDING
Facility Address:	648 SE HARLOW AVENUE TROUTDALE, OR 97060-2164
Enforcement Action Type:	TSCA 16 Action For Penalty
Facility County:	MULTNOMAH
EPA Region #:	10

Enforcement Action ID:	10-2001-0002
FRS ID:	110013688410
Program ID:	FRS 110013688410
Action Name:	REYNOLDS SCHOOL DISTRICT
Full Address:	648 SE HARLOW AVENUE TROUTDALE OR 97060-2164
State:	Oregon
Facility Name:	TROUTDALE ELEMENTARY SHOP BUILDING
Facility Address:	648 SE HARLOW AVENUE TROUTDALE, OR 97060-2164
Enforcement Action Type:	TSCA 16 Action For Penalty
Facility County:	MULTNOMAH
EPA Region #:	10

TROUTDALE ELEMENTARY SCHOOL (Continued) **1006798452**

Program ID: FRS 110013688410
Facility Name: TROUTDALE ELEMENTARY SHOP BUILDING
Address: 648 SE HARLOW AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: OR-DEQ 39195
Facility Name: TROUTDALE ELEMENTARY SHOP BUILDING
Address: 648 SE HARLOW AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

FINDS:

Registry ID: 110013688410

Environmental Interest/Information System
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

ECHO:
Envid: 1006798452
Registry ID: 110013688410
FIPS Code: 41051
EPA Region: 10
Indian Country Flag: N
Federal Flag: N
US Mexico Border Flag: Not reported
Chesapeake Bay Flag: Not reported
NAA Flag: Not reported
Latitude: 45.53686
Longitude: -122.38634
Map Icon: NONE-UNK-MN-N.png
Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Reference Point: CENTER OF A FACILITY OR STATION
Accuracy Meters: 30
Derived Tribes: Not reported
Derived Huc: 17080001
Derived WBD: Not reported

TROUTDALE ELEMENTARY SCHOOL (Continued) **1006798452**

Derived STCT FPS:	41051
Derived Zip:	97060
Derived CD113:	03
Derived CB2010:	410510103051029
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	12/12/2000
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported

TROUTDALE ELEMENTARY SCHOOL (Continued) **1006798452**

CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	10-2001-0002
FEC Number of Cases:	Not reported
FEC Last Case Date:	12/12/2000
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110013688410
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	12/12/2000
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

A3 **HEATING OIL TANK** **RGA LUST** **S115394534**
Target **648 SE HARLOW ST** **N/A**
Property **TROUTDALE, OR**

Site 3 of 4 in cluster A

Actual:
228 ft.

RGA LUST:

2012 HEATING OIL TANK 648 SE HARLOW ST

A4 **HEATING OIL TANK** **LUST** **S105075806**
Target **648 SE HARLOW ST** **UIC** **N/A**
Property **TROUTDALE, OR 97060**

Site 4 of 4 in cluster A

Actual:
228 ft.

LUST:

Region:	North Western Region
Facility ID:	26-01-6529
Cleanup Received Date:	07/24/2001
Cleanup Start Date:	07/23/2001
Cleanup Complete Date:	**10/12/2001**
Decode for Region:	**North West Region**

OR UIC:

UIC Well #:	1
Type:	5D2
Type Description:	Storm Water Drainage
Status:	Active
UIC Number:	10770
Facility Status:	Applied for permit
Lat/Long:	45.536499 / -122.386

UIC Well #:	2
Type:	5W32
Type Description:	Septic Systems (drainfield Disposal Method)
Status:	Plugged and Abandoned
UIC Number:	10770
Facility Status:	Applied for permit
Lat/Long:	45.536499 / -122.386

UIC Well #:	3
Type:	5W32
Type Description:	Septic Systems (drainfield Disposal Method)
Status:	Plugged and Abandoned
UIC Number:	10770
Facility Status:	Applied for permit
Lat/Long:	45.536499 / -122.386

5
NNW
< 1/8
0.088 mi.
463 ft.

HEATING OIL TANK — **LUST** — **S106475826**
245 SE 5TH STREET — **N/A**
TROUTDALE, OR 97060

Relative:
Lower

Actual:
221 ft.

LUST:

Region:	North Western Region
Facility ID:	26-04-0990
Cleanup Received Date:	05/27/2004
Cleanup Start Date:	05/28/2004
Cleanup Complete Date:	**11/12/2004**
Decode for Region:	**North West Region**

6
NNW
< 1/8
0.103 mi.
545 ft.

HEATING OIL TANK — **LUST** — **S105463473**
411 SE HARLOW AVE — **N/A**
TROUTDALE, OR 97060

Relative:
Lower

Actual:
206 ft.

LUST:

Region:	North Western Region
Facility ID:	26-02-5508
Cleanup Received Date:	03/26/2002
Cleanup Start Date:	03/26/2002
Cleanup Complete Date:	**07/30/2003**
Decode for Region:	**North West Region**

7
North
1/8-1/4
0.171 mi.
904 ft.

WASTE WATER MANAGEMENT, INC. TROUTDALE PLANT NO. 1 — **SWF/LF** — **S107505192**
320 NE HARLOW STREET — **N/A**
TROUTDALE, OR 97060

Relative:
Lower

Actual:
135 ft.

LF:

Permit Number:	369
Facility Id:	104220
Facility Telephone:	503-640-9427
Facility Telephone 2:	Not reported
Lat/Long:	45.5391 / -122.386
Solid Waste Class:	Sludge
Solid Waste Type:	Land Application
Date Opened:	08/21/1984
End Date:	Not reported
Date Closed:	06/15/1998
Permit Status:	Terminated
Organization:	Waste Management of Oregon, Inc.
Contact Name:	Dan Wilson
Affil Start Date:	03/03/2006
Mailing Address:	869 NW Eastwind Dr
Mailing City:	Troutdale
Mailing Zip:	97060-9554

8
NW
1/8-1/4
0.179 mi.
945 ft.

HEATING OIL TANK
107 SW 4TH ST
TROUTDALE, OR 97060

LUST **S105463474**
N/A

Relative:
Lower

Actual:
152 ft.

LUST:
Region: North Western Region
Facility ID: 26-02-5944
Cleanup Received Date: 05/20/2002
Cleanup Start Date: 05/20/2002
Cleanup Complete Date: 07/25/2002
Decode for Region: North West Region

9
NNE
1/8-1/4
0.239 mi.
1261 ft.

TROUTDALE SAND & GRAVEL
645 E HISTORIC COLUMBIA RIVER HWY
TROUTDALE, OR 97060

LUST **U001330318**
UST **N/A**

Relative:
Lower

Actual:
42 ft.

LUST:
Region: North Western Region
Facility ID: 26-93-0122
Cleanup Received Date: 07/26/1993
Cleanup Start Date: 10/28/1993
Cleanup Complete Date: 10/28/1993
Decode for Region: North West Region

UST:
Facility ID: 11245
Facility Telephone: (503)326-4194
Permittee Name: KERNAN BAGLEY, US MARSHAL
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

10
NNW
1/4-1/2
0.256 mi.
1352 ft.

HEATING OIL TANK
105 SW 2ND
TROUTDALE, OR 97060

LUST **S100921459**
N/A

Relative:
Lower

Actual:
99 ft.

LUST:
Region: North Western Region
Facility ID: 26-94-5108
Cleanup Received Date: 05/03/1994
Cleanup Start Date: 05/03/1994
Cleanup Complete Date: 05/09/1994
Decode for Region: North West Region

11
NNW
1/4-1/2
0.258 mi.
1360 ft.

HEATING OIL TANK — **LUST** — **S113907227**
141 SE DORA ST — **N/A**
TROUTDALE, OR 97060

Relative:
Lower

Actual:
86 ft.

LUST:

Region:	North Western Region
Facility ID:	26-13-0840
Cleanup Received Date:	06/27/2013
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**07/23/2013**
Decode for Region:	**North West Region**

12
NE
1/4-1/2
0.286 mi.
1510 ft.

BENNETT PROPERTY — **ECSI** — **S106655855**
NEAR CONFLUENCE OF BEAVER CREEK AND SANDY RIVER — **N/A**
TROUTDALE, OR 97060

Relative:
Lower

Actual:
37 ft.

ECSI:

State ID Number:	1048
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	24125
Further Action:	0
Lat/Long (dms):	45 32 22.20 / -122 22 52.68
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	25
Qtr Section:	Not reported
Tax Lots:	26
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	12/07/2007
Created Date:	08/07/1990
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Hazardous Release:

Substance ID.:	121028
Haz Release ID:	385494
Qty Released:	128 cubic yards
Date Released:	March 1990
Update Date:	07/08/1990
Update By:	Not reported
Substance Code:	1305-78-8

BENNETT PROPERTY (Continued) **S106655855**

Substance Name: CALCIUM OXIDE
Substance Abbrev.: Not reported
Comment ID: 302615
Release Code: Data Sources
Release Comments: Notice of Violation
Decode for Relcomcd: Data Sources
Sampling Result ID: 345097
Feature Id: Not reported
Hazard Release Id: 385494
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: Not reported
Start Date: 03/09/1990
End Date: 03/09/1990
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Not reported
Last Update By: kpd
Update Date: 06/27/1996
Decode for MediumID: Soil

Narrative:
NARR ID: 5731156
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (1/4/91 MJM/SAS) Responding to a complaint, a DEQ inspector visited the site on March 9, 1990. DEQ observed lime sludge being dumped into an abandoned sand and gravel pit. The sludge was being used to compact and stabilize fill material in expectation of constructing an RV park atop the filled pit. Allegedly, the lime supplier, Northwest Airgas Inc., was told that the lime would be used as a soil additive for agricultural purposes. Up to 64 loads of lime sludge, 20 cubic yards each, were landfilled. As a result, DEQ issued a Notice of Violation to Marie Bennett in May 1990 for disposing of material without a solid waste disposal permit.

NARR ID: 5731157
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: Notice of Violation #SW-NWR-90-82. Correspondence TO owner and/or operator.

NARR ID: 5731158
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002

BENNETT PROPERTY (Continued) **S106655855**

Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: lime sludge (K060)

NARR ID: 5731159
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Lime sludge inappropriately used to compact soil during the filling and grading of an inactive sand and gravel pit. Time of release: March 1990.

NARR ID: 5731160
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Site located between Beaver Creek and the Sandy River.

NARR ID: 5731161
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (1/4/91 MJM/SAS) The lime sludge supplied by Northwest Airgas was determined to be non-hazardous (specifically, the pH of the sludge was less than 12.5). Because no hazardous substances were disposed of, no further action is necessary under the state Superfund program.

Administrative Action:
Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9427
Region: Headquarters
Complete Date: 01/04/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

BENNETT PROPERTY (Continued) **S106655855**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Excluded from confirmed release definition
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 01/04/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 01/03/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 01/02/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132359
Operation Status: Inactive
Common Name: Bennett Property
Yrs of Operation: Not reported
Comments: sand and gravel pit
Updated Date: 06/27/1996
Updated By: kpd

BENNETT PROPERTY (Continued) **S106655855**

Decode for OpstatID: Inactive
Operations SIC Id: 194918
SIC Code: 1442
Created By: Not reported
Created Date: 12/17/2002
Operations SIC Id: 194919
SIC Code: 5032
Created By: Not reported
Created Date: 12/17/2002

13
SW
1/4-1/2
0.298 mi.
1572 ft.

HEATING OIL TANK **LUST** **S117365524**
231 SW CHERRY PARK RD **NPDES** **N/A**
TROUTDALE, OR 97060

Relative:
Higher

Actual:
281 ft.

LUST:
Region: North Western Region
Facility ID: 26-14-1258
Cleanup Received Date: 09/12/2014
Cleanup Start Date: Not reported
Cleanup Complete Date: 02/03/2015
Decode for Region: North West Region

NPDES:
WQ File Nbr: 124437
Legal Name: Nail Construction
Region: NWR
Pri SIC: 1521
Facility Type: SINGLE FAMILY HOUSING CONSTR.
Latitude: 45.5301
Longitude: -122.4036
Category: STM
Permit Type: GEN12C(AGENT)
Permit Active: True
Is Active?: Not reported
Permit Description: Stormwater; NPDES construction more than 1 acre disturbed ground, issued by agent
Expiration Date: 11/30/2015
EPA Number: ORR10E163
UIC Facility: False
Admin Agent: City of Troutdale
Last Action Date: 11/09/2015
Permit Writer: Garner
Compliance Inspector: Not reported
DMR Reviewer: Not reported
Application Number: 957755
Class: MINOR
Start Date: 09/15/2015
Region Decode: North West Region

B14 **NEIL HANDY PROPERTY** **US BROWNFIELDS** **1016358363**
NNW **146 W. HISTORIC COLUMBIA RIVER HIGHWAY** **FINDS** **N/A**
1/4-1/2 **TROUTDALE, OR 97060** **ECHO**
0.309 mi.
1631 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
79 ft.

US BROWNFIELDS:

Recipient name:	Metro
Grant type:	Assessment
Property name:	NEIL HANDY PROPERTY
Property #:	Not reported
Parcel size:	.38
Property Description:	The Site is located at 146 West Columbia River Highway, in Troutdale, Oregon. The Site was utilized as a gas station from 1928 until November 1987, and as an automotive and aircraft repair shop until 2002. In June 2007, Hahn and Associates, Inc. performed a Phase I Environmental Assessment. The assessment identified the following recognized environmental conditions that may warrant further investigation: In 1977, a 1,000-gallon gasoline underground storage tank UST was removed and replaced with a 4,000-gallon UST. The 4,000-gallon UST and 1 used oil UST 275 gallons were removed in 1993. A no further action letter was issued after the removal LUST No. 26-93-0222 Two 550-gallon USTs were located on the adjacent property to the north and have been removed Hazardous materials i.e., solvents and petroleum products were utilized at the property from 1931 through 2002 A hydraulic hoist was installed prior to 1980 and an underground hoist pipe leak was cleaned up in 1980. However, confirmatory sampling was not performed as part of the cleanup and Soil staining was observed below the fill and supply line of a heating oil tank on the property. The Site and surrounding area are situated on northward-sloping terrain at an elevation of approximately 80 feet above mean sea level. According to the U.S. Geological Survey Geologic Map of Oregon, 1991, the soils in the vicinity of the subject property are alluvial deposits, consisting of sand gravel and silt. Groundwater is expected to occur at depths of 10 to 30 feet below ground surface bgs. The closest surface water body is Columbia River, approximately 1,200 feet east of the Site.
Latitude:	45.540591
Longitude:	-122.38904100000002
HCM label:	Address Matching-House Number
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	115823
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	59494
Assessment funding source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	P
Accomplishment type:	Phase II Environmental Assessment

NEIL HANDY PROPERTY (Continued) **1016358363**

Accomplishment count:	1
Cooperative agreement #:	96072301
Ownership entity:	Private
Current owner:	Historic Highway Properties, LLC
Did owner change:	N
Cleanup required:	Yes
Video available:	No
Photo available:	Yes
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	No
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Y
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Y
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Y
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	.2
Past use industrial acreage:	.18
Future use greenspace acreage:	Not reported

NEIL HANDY PROPERTY (Continued) **1016358363**

Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

FINDS:

Registry ID: 110043454598

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016358363
Registry ID:	110043454598
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported

NEIL HANDY PROPERTY (Continued) **1016358363**

NAA Flag:	Not reported
Latitude:	45.54075
Longitude:	-122.38905
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	17080001
Derived WBD:	170800010703
Derived STCT FPS:	41051
Derived Zip:	97060
Derived CD113:	03
Derived CB2010:	410510103051015
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported

NEIL HANDY PROPERTY (Continued) **1016358363**

NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110043454598
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported

NEIL HANDY PROPERTY (Continued) **1016358363**

Facility Date Last Formal ACT ST: Not reported
Facility Date Last Inforamal ACT EPA: Not reported
Facility Date Last Informal ACT ST: Not reported
Facility Federal Agency: Not reported
TRI Reporter: Not reported
Facility IMP Water Flag: Not reported

B15 **HANDY BROTHERS SERVICE** **LUST U000431057**
NNW **146 W COLUMBIA** **UST N/A**
1/4-1/2 **TROUTDALE, OR 97060**
0.311 mi.
1642 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
77 ft.

LUST:
Region: North Western Region
Facility ID: 26-93-0222
Cleanup Received Date: 12/15/1993
Cleanup Start Date: 12/15/1993
Cleanup Complete Date: 03/10/1994
Decode for Region: North West Region

UST:
Facility ID: 2362
Facility Telephone: (503)665-4752
Permittee Name: OWNER
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 6
Number of Tanks: 6

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16 **TROUTDALE RIVERFRONT REDEVELOPMENT SITE** **ECSI S109694404**
North **302, 320, AND 410 NW 257TH WAY** **VCP N/A**
1/4-1/2 **TROUTDALE, OR 97060** **BROWNFIELDS**
0.380 mi.
2006 ft.

Relative:
Lower

Actual:
45 ft.

ECSI:
State ID Number: 5224
Brown ID: Brownfield Site - Assistance From Other Public Agencies
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: Suspect
FACA ID: 112120
Further Action: 260
Lat/Long (dms): 45 32 32.30 / -122 23 4.90
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 25
Qtr Section: Not reported
Tax Lots: 400, 500, 100, 600

TROUTDALE RIVERFRONT REDEVELOPMENT SITE (Continued) **S109694404**

Size: 19.57 acres
NPL: False
Orphan: False
Updated By: RWELLS
Update Date: 05/01/2015
Created Date: 07/15/2009
Decode For RegionID: Northwest Region
Decode For BrownID: Brownfield Site - Assistance from Other Public Agencies
Decode For Furtheract: Low
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: East Wind Development LLC
Alias Name: Bissinger Wool Pullery

Narrative:
NARR ID: 5751595
NARR Code: Contamination
Created By: GWISTAR
Created Date: 07/15/2009
Updated By: RWELLS
Updated Date: 04/20/2015
Decode for NarcdID: Contamination
NARR Comments: (7/15/09 GMW/SAS) DEQ added this site to the ECSI database in July 2009, after the City of Troutdale requested agency input on managing environmental concerns associated with proposed site redevelopment. The city provided DEQ with a 2006 report on a sampling investigation and heating-oil tank (HOT) decommissioning.Field work in 2006 consisted of: 1) installation of two test pits and soil sampling below the unlined sludge lagoon; 2) a geophysical survey north of the large warehouse; 3) removal of the 675-gallon HOT and associated soil sampling; and 4) installation of eight test pits and soil sampling north and east of the large warehouse. (Locations of the eight test pits were determined partly based on results of the geophysical survey.)No contamination of concern was found beneath the former unlined lagoon or beneath the HOT after decommissioning. In the test pits sampled north and east of the large warehouse, the consultant found ***black fibrous material*** and ***viscous sludge(s) and oily liquids of unknown origin or composition, with an extremely strong, undetermined odor that could be smelled several hundred feet away.*** In other test pits, there was trash, corroded/buried drums, wood and fiberboard debris, and ***green rubbery material.*** Contaminants of concern found in soil from these test pits include petroleum hydrocarbons, polynuclear aromatic hydrocarbons (PAHs), phenol, and some chlorinated solvents such as chlorobenzenes, 1,1,1-trichloroethane (TCA), and perchloroethene (PCE) and breakdown products. Chromium was slightly elevated in some of the samples, but not at levels to suggest this is a contaminant of concern.In May 2000 and again in August 2007, DEQ received complaints about Union Pacific Railroad having buried up to 30 five-gallon buckets of lead-based paint sludge, and other possible railroad-generated wastes. This disposal allegedly occurred in 1975 or 1976, in an 8-10 foot deep, 15-20 foot long trench excavated along the north side of the UPRR tracks, west of the Sandy River Bridge, and beyond the eastern end of a railroad access road that paralleled the tracks. The disposal trench was allegedly filled the same day it was excavated. DEQ has not investigated this complaint.(4/20/15 RWA) Soil and groundwater samples were collected from the City-owned property (former wastewater treatment plant) and analyzed for petoleum, polycyclic

TROUTDALE RIVERFRONT REDEVELOPMENT SITE (Continued) **S109694404**

aromatic hydrocarbons, volatile organic compounds, heavy metals, polychlorinated biphenyls (PCBs) and pesticides. All concentrations of contaminants were below applicable risk-based screening levels for current and future use.The Eastwinds Development portion of the site is undergoing investigation using EPA brownfield funding. Results are pending.

NARR ID: 5751592
NARR Code: Data Sources
Created By: GWISTAR
Created Date: 07/15/2009
Updated By: RWELLS
Updated Date: 04/22/2015
Decode for NarcdID: Data Sources
NARR Comments: ***Phase I Environmental Site Assessment, City of Troutdale & Eastwind Development, LLC, Parcels 410, 320 & 302 NW 257th Way/NE Harlow Road, Tax Lots 400, 500, 100 &600,*** Troutdale Oregon. Kleinfelder, Inc., January, 2006.***Phase II Environmental Site Assessment Report, City of Troutdale WWTP Property and Eastwind Development, LLC Property, 410, 320, and 302 NW 257th Way, Troutdale Oregon,*** Kleinfelder, Inc., 5/12/06.***Troutdale Riverfront Redevelopment Site, Targeted Brownfields Assessment, Troutdale, Oregon.*** Ecology and Environment, Inc., July, 2011.SUPPLEMENTAL SITE CHARACTERIZATION REPORTTroutdale Riverfront Redevelopment SiteTroutdale, Oregon, AMEC Environment & Infrastructure, Inc.November, 2012QUALITY ASSURANCE PROJECT PLAN &SAMPLING AND ANALYSIS PLAN, Revision 1Troutdale Riverfront Redevelopment Property302 NW 257th Way, Troutdale, Oregon. AMEC Environment & Infrastructure, Inc.July 3, 2014Closure Report, Former Publicly Owned Wastewater Treatment Plan Property. AMEC, Foster, Wheeler, January, 2015.

NARR ID: 5751593
NARR Code: General Site Description
Created By: GWISTAR
Created Date: 07/15/2009
Updated By: RWELLS
Updated Date: 04/20/2015
Decode for NarcdID: General Site Description
NARR Comments: The site is bound to the north by Interstate 84, to the south by a Union Pacific Railroad right-of-way, to the east by the Sandy River, and to the west by 257th Ave.The property includes Troutdale's old wastewater treatment plant (tax lots R320520 400 and R320650 500), which was decommissioned in 2001; the property remains under city ownership. Eastwind Development, LLC owns tax lots R320485 100 and R320654 600 on the southeast portion of the proposed redevelopment area. The western part of the redevelopment area is also in private ownership as an outlet mall (Chelsea Financing Partnership LP).

NARR ID: 5755661
NARR Code: Pathways Other Hazards
Created By: RWELLS
Created Date: 04/20/2015
Updated By: RWELLS
Updated Date: 04/20/2015
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: (4/20/15, RWA) Future plans for the site include the development of a

TROUTDALE RIVERFRONT REDEVELOPMENT SITE (Continued) **S109694404**

conference center, hotel and spa, and retail and commercial development that do not include residential use. Exposure pathways include:Occupation worker, park user, construction and excavation worker. As no ecological habitat will be created or enhanced as part of the redevelopment, ecological risk is only being considered for terrestrial ecological receptors along the bankline areas of the property. The groundwater to surface water pathway is being evaluated for the Eastwind Development portion of the site.

NARR ID: 5751597
NARR Code: Remedial Action
Created By: GWISTAR
Created Date: 07/15/2009
Updated By: RWELLS
Updated Date: 04/20/2015
Decode for NarcdID: Remedial Action
NARR Comments: (7/15/09 GMW/SAS) DEQ recommends additional sampling around the large warehouse, including possible disposal/burial areas east and north of this warehouse to the Sandy River. The complaint of railroad waste burial should also be investigated.(10/21/09 GMW/SAS) EPA agreed to fund a Targeted Brownfield Assessment (TBA) at the site, and conducted a site visit on Oct. 7.(7/10/2010 RWA) In July, 2010, EPA contractors conducted a sampling event that included the collection of groundwater, surface, and subsurface samples.(7/2011 RWA) Troutdale Riverfront Redevelopment Site TBA report submitted to DEQ. Eighty-six soil samples, including three groundwater samples, were collected and analyzed for total petroleum hydrocarbons, volatile organic compounds, semi-volatile organic compounds, metals, pesticides and PCBs. The TBA focused predominantly on the Eastwind portion of the site with some samples collected from the city of Troutdale property. Although there were areas where screening levels for either human health or ecological receptors were exceeded, there does not appear to be an area-wide contamination issue.The TBA report presents investigation data gaps and cleanup options with cost estimates. The following are outstanding data gaps/risk assessment issues associated with the site:Human Health:Surface SoilThree surface soil samples were collected as part of the TBA. Levels of contaminants, predominantly arsenic, are present in soil at depths that exceed construction and excavation worker RBCs. Although none of the samples exceeded human health criteria in surface soil, additional characterization is warranted to determine site-wide risk. Volatilization to Indoor and Outdoor AirA portion of the Eastwind property was formerly used as an animal rendering facility. Boreholes and test pits completed as part of the TBA delineated the extent of buried animal waste to approximately 0.24 acres wide and 14 feet deep. A soil sample collected in the animal waste area showed naphthalene at 100 mg/kg, which exceeds the volatilization to outdoor air soil RBC for occupational use of 27 mg/kg. One other soil sample collected outside of the animal waste area showed levels of contaminants above the volatilization to outdoor air screening level. Therefore, additional characterization is warranted to determine the risk associated with contaminants present in sub-surface soils, specifically in the animal waste area.Ecological Assessment:Groundwater characterizationDue to the location of the site near the Sandy River and the levels of contaminants found in onsite groundwater samples (specifically metals and pesticides), additional groundwater characterization is needed to determine if the

TROUTDALE RIVERFRONT REDEVELOPMENT SITE (Continued) **S109694404**

Sandy River may be impacted by onsite groundwater contamination. Additional characterization would include the installation of monitoring wells between the Sandy River and the upland portion of the properties.Surface soil characterizationThe three surface soil samples showed levels of contaminants above ecological screening levels. Additional characterization of surface soils is necessary to determine the risk to wildlife at the site.The TBA report also noted a lack of sampling data for the southwest portion of the property near the Union Pacific Railroad lines. Access to the railroad portion of the site was limited at the time of the TBA and therefore no sampling was conducted. It should be noted that that TBA report recommended removal of the animal waste to an appropriate disposal facility, additional groundwater characterization to determine if the Sandy River may be adversely impacted by the site, and additional characterization of site soils.(8/2014, RWA) Additional surface soil sampling of the city-owned portion of the site (former wastewater treatment plant), tax lots R320520 400 and R320650 500, were performed in 2013 using Business Oregon funds. Applicable risk-based concentrations for the site include: park user, occupational, construction worker and excavation worker. As no ecological habitat will be created or enhanced as part of site redevelopment activities, screening for risk to terrestrial ecological receptors is not applicable. Soil sampling was performed using incremental sampling methodology (ISM). Soil samples were below applicable RBCs for the city-owned property. A site closure report and NFA determination will be issued in spring, 2015 for the city-owned property.Additional characterization of the Eastwind property was conducted in August 2014 using EPA Brownfield assessment grant funds. Soil samples were collected using ISM, and soil borings were collected from beneath the existing warehouse. Groundwater samples were also collected from the two monitoring wells on the site. A hazardous materials building survey was also performed. An interim removal action is planned for the sheep pit waste area. Approximately 3,500 yd3 of sheep carcass/waste will be removed from the Eastwind property and disposed of at a putrescible waste landfill. The pit will be backfilled with soil received from the Parkrose Middle School site improvement project.

NARR ID: 5751596
NARR Code: Substances of Concern
Created By: GWISTAR
Created Date: 07/15/2009
Updated By: GWISTAR
Updated Date: 07/15/2009
Decode for NarcdID: Substances of Concern
NARR Comments: Petroleum hydrocarbons, polynuclear aromatic hydrocarbons (PAHs), phenol, and chlorinated solvents such as chlorobenzenes, 1,1,1-trichloroethane (TCA), and perchloroethene (PCE) and breakdown products.

NARR ID: 5751594
NARR Code: Site History
Created By: GWISTAR
Created Date: 07/15/2009
Updated By: GWISTAR
Updated Date: 07/15/2009
Decode for NarcdID: Site History

TROUTDALE RIVERFRONT REDEVELOPMENT SITE (Continued) **S109694404**

NARR Comments: In 1901, Union Meat Co. developed the southeastern parts of the property to process livestock, which included a rendering and glue plant. Union Meat Co. built two warehouses at that time, as well as two ***oil houses*** on the east side of the large warehouse building. Until about 1970, this property had a variety of uses, such as a cattle slaughterhouse, hide processing/tanning, and a wool pullery. These activities may have generated wastes containing chromium and volatile organic compounds.A cabinet-making business operated on the current Eastwind property from the early 1970s until the late 1990s; it was likely to have used adhesives and resins, and incurred EPA hazardous waste violations in 1991-92 (details of violations not known). Gresham Fire and Emergency Services condemned the large warehouse building sometime prior to 2006.Troutdale developed its old WWTP in 1969, and used it until 2001, when a new WWTP was built on a site north of Interstate 84. Facilites on this part of the property include a 1-million-gallon lined sludge lagoon (still present), and a 100,000-gallon unlined lagoon.

NARR ID: 5754804
NARR Code: 1922
Created By: RWELLS
Created Date: 08/15/2013
Updated By: RWELLS
Updated Date: 12/08/2015
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The site consists of the City of Troutdale owned, former wastewater treatment plant property (tax lots R320520 400 and R320650 500) and the Eastwinds Development LLC property to the south (tax lots R320485 100 and R320654 600).Previous site use included agriculture and wastewater treatment plant (City-owned property) and wool pullery and slaughterhouse (Eastwinds property). Future plans for the site include the development of a conference center, hotel and spa, and retail and commercial development that do not include residential use.Previous investigations were performed to determine if contamination was present in soil and groundwater at the site. Soil and groundwater samples were analyzed for petroleum, polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), heavy metals, polychlorinated biphenyls (PCBs) and pesticides.Soil and groundwater samples collected from the City-owned portion of the site are below applicable risk-based screening levels for human health and the environment. Soil samples exceed DEQ Clean Fill criteria, and will need to be managed in accordance with a Contaminated Media Management Plan (CMMP) that will be developed for both the Eastwinds and City-owned properties prior to site development. The City-owned tax lots were issued a No Further Action determination in April, 2015.The Eastwinds Development property is currently undergoing investigation using EPA Brownfield assessment funds. An interim removal action was completed in December, 2015 that included the removal of over 3,500 yd3 of sheep pelt/material from the Eastwind property. The material was disposed of at a putrescible waste landfill in Wasco County. The pit was backfilled with soil received from the Parkrose Middle School site improvement project.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 07/15/2009
Rank Value: Not reported

TROUTDALE RIVERFRONT REDEVELOPMENT SITE (Continued) **S109694404**

Cleanup Flag: False
Created Date: 07/15/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9506
Region: Northwestern Region
Complete Date: 07/15/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/15/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Investigation recommended (SI)
Further Action: Medium
Comments: Not reported

Action ID: 9518
Region: Northwestern Region
Complete Date: 07/14/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/21/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: TARGETED BROWNFIELD ASSESSMENT
Further Action: 0
Comments: Conducted by EPA’s contractor, E&E. Report completed July, 2011.

Action ID: 9440
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/13/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: ITP Form and deposit submited 4/12/2012

Action ID: 9511
Region: Northwestern Region
Complete Date: 01/31/2015
Rank Value: Not reported
Cleanup Flag: False

TROUTDALE RIVERFRONT REDEVELOPMENT SITE (Continued) **S109694404**

Created Date: 08/15/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Further Site Investigation work conducted using EPA grant funds, awarded to the City of Troutdale in 2012.

Action ID: 9463
Region: Northwestern Region
Complete Date: 04/28/2015
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/20/2015
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: Low
Comments: NFA for former wastewater treatement plant (Tax lots R320520 400 and R320650 500).Eastwinds Development property (Tax Lots R320485 100 and R320654 600) are undergoing investigation

VCS:
ECS Site ID: 5224
Facility Size: 19.57 acres
Action: Partial No Further Action
Start Date: 04/20/2015
End Date: 04/28/2015
Facility Status: Active
Program: VCP
Latitude: 45.54229
Longitude: -122.3847

OR BROWNFIELDS:
Geolocation Id: 112120
Status: Partial No Further Action
Lat/Long: 45.5423 / -122.384

17
North
1/4-1/2
0.417 mi.
2200 ft.

TROUTDALE RIVERFRONT REDEVELOPMENT **US BROWNFIELDS** **1016361899**
302, 320, AND 410 NW 257TH WAY **FINDS** **N/A**
TROUTDALE, OR 98060 **ECHO**

Relative:
Lower

Actual:
43 ft.

US BROWNFIELDS:
Recipient name: R10 TBA (ARRA)
Grant type: TBA
Property name: TROUTDALE RIVERFRONT REDEVELOPMENT
Property #: Not reported
Parcel size: 20.3
Property Description: Not reported
Latitude: 45.542891
Longitude: -122.38594599999999

TROUTDALE RIVERFRONT REDEVELOPMENT (Continued) **1016361899**

HCM label:	Unknown
Map scale:	Not reported
Point of reference:	Entrance Point of a Facility or Station
Datum:	World Geodetic System of 1984
ACRES property ID:	131222
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	166264
Assessment funding source:	US EPA - TBA Funding
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	EPA
Cleanup funding entity:	Not reported
Grant type:	N/A
Accomplishment type:	Phase II Environmental Assessment
Accomplishment count:	1
Cooperative agreement #:	n/a
Ownership entity:	Government
Current owner:	Not reported
Did owner change:	N
Cleanup required:	Unknown
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	U
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Not reported
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported

TROUTDALE RIVERFRONT REDEVELOPMENT (Continued) **1016361899**

PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

TROUTDALE RIVERFRONT REDEVELOPMENT (Continued) **1016361899**

FINDS:

Registry ID: 110045012534

Environmental Interest/Information System
US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

ECHO:

Envid:	1016361899
Registry ID:	110045012534
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.542891
Longitude:	-122.385946
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	UNKNOWN
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters:	35900
Derived Tribes:	Not reported
Derived Huc:	17080001
Derived WBD:	170800010703
Derived STCT FPS:	41051
Derived Zip:	97060
Derived CD113:	03
Derived CB2010:	410510103051003
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N

TROUTDALE RIVERFRONT REDEVELOPMENT (Continued) **1016361899**

SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported

TROUTDALE RIVERFRONT REDEVELOPMENT (Continued) **1016361899**

SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110045012534
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

---

18 **ODOT - SANDY RIVER DELTA** **ECSI S109051800**
NNE **INTERSTATE 84, EXIT 18** **VCP N/A**
1/2-1 **TROUTDALE, OR 97060**
0.523 mi.
2759 ft.

Relative:
Lower

Actual:
36 ft.

ECSI:

State ID Number:	4953
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	117319
Further Action:	0
Lat/Long (dms):	45 32 38.00 / -122 22 54.80
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	25
Qtr Section:	NE
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	09/02/2010

ODOT - SANDY RIVER DELTA (Continued) **S109051800**

Created Date: 03/10/2008
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 03/10/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/10/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9469
Region: Eastern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/10/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

VCS:
ECS Site ID: 4953
Facility Size: Not reported
Action: REMEDIAL ACTION
Start Date: 03/10/2008
End Date: Not reported
Facility Status: Inactive
Program: VCS
Latitude: 45.54390
Longitude: -122.3819

19
NNW
1/2-1
0.586 mi.
3093 ft.

Relative:
Lower

Actual:
47 ft.

LOVE'S TRAVEL STOP #449
400 NW FRONTAGE RD
TROUTDALE, OR 97060

ECSI **U000431053**
LUST **N/A**
UST
AST
SPILLS
OR HAZMAT
HSIS

ECSI:
State ID Number: 4522
Brown ID: 0

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	53793
Further Action:	258
Lat/Long (dms):	45 32 39.00 / -122 23 34.00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	25
Qtr Section:	BC
Tax Lots:	900
Size:	8.5 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	09/13/2006
Created Date:	10/24/2005
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Medium
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5747384
NARR Code:	Contamination
Created By:	JWAGGY
Created Date:	10/24/2005
Updated By:	JWAGGY
Updated Date:	10/24/2005
Decode for NarcdID:	Contamination
NARR Comments:	(10/11/05 LC/UST) After replacement of ball valves on diesel supply lines the lines failed integrity testing. Helium tests indicated fitting leak. Leaking fitting replaced, contaminated soil removed but TPH-Dx concentrations remain up to 16,000 ppm in soil at the source of the release. Additional soil and groundwater samples collected to determine the magnitude and extent of contamination. Groundwater impacts up to 130 ppm diesel near the fuel dispensing islands. Soil samples indicate heavy-oil range hydrocarbon concentrations range from 58 to 2,060 ppm and increase as sample collection approached the oil/water separator located west of the diesel dispensing islands. The heavy oil in soil is at a depth of 1 to 3 feet bgs, the samples below that were ND. That indicates the heavy oil contamination is not from the UST system.

NARR ID:	5747382
NARR Code:	General Site Description
Created By:	JWAGGY
Created Date:	10/24/2005
Updated By:	JWAGGY
Updated Date:	10/24/2005
Decode for NarcdID:	General Site Description

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

NARR Comments: The property is currently convenience/retail store with separate fueling facilities for long-haul trucks and passenger vehicles and a semi-truck scale . The site has three 20,000-gallon diesel USTs and three 12,000-gallon unleaded USTs.

NARR ID: 5747383
NARR Code: Manner of Release
Created By: JWAGGY
Created Date: 10/24/2005
Updated By: JWAGGY
Updated Date: 01/24/2006
Decode for NarcdID: Manner of Release
NARR Comments: Diesel releases from UST pipe lines on December 3, 2003 and December 7, 2004. An unknown release of heavy oil. Surface release of 30 gallons diesel was reported to OERS.

NARR ID: 5747385
NARR Code: Remedial Action
Created By: JWAGGY
Created Date: 10/24/2005
Updated By: JWAGGY
Updated Date: 10/24/2005
Decode for NarcdID: Remedial Action
NARR Comments: (10/11/05 LC/UST) Presence of heavy oil at concentrations up to 2,060 milligrams per kilogram detected in soil west of diesel fuel dispensing island discovered during investigation and delineation of diesel fuel release to soil and groundwater from the UST system. Contamination is not UST related. Suspect used oil or very old diesel from the oil/water separator located west of the truck fuel dispensing area, or could be tack oil. Surface spill of diesel reported to OERS July 7, 2005. Site referred to the Site Assessment Program for further follow-up.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 10/24/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/24/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Northwestern Region
Complete Date: 10/24/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/24/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Action: Site Screening recommended (EV)
Further Action: Medium
Comments: Not reported

Operations:
Operation Id: 135124
Operation Status: Active
Common Name: Flying J Travel Center
Yrs of Operation: Unknown
Comments: Not reported
Updated Date: 10/24/2005
Updated By: JWAGGY
Decode for OpstatID: Active

LUST:
Region: North Western Region
Facility ID: 26-03-2506
Cleanup Received Date: 12/03/2003
Cleanup Start Date: 12/03/2003
Cleanup Complete Date: 01/05/2006
Decode for Region: North West Region

Region: North Western Region
Facility ID: 26-07-0286
Cleanup Received Date: 02/23/2007
Cleanup Start Date: Not reported
Cleanup Complete Date: Not reported
Decode for Region: North West Region

Region: North Western Region
Facility ID: 26-07-1194
Cleanup Received Date: 05/08/2007
Cleanup Start Date: 02/10/2009
Cleanup Complete Date: 08/23/2010
Decode for Region: North West Region

Region: North Western Region
Facility ID: 26-91-0004
Cleanup Received Date: 01/03/1991
Cleanup Start Date: 11/01/1990
Cleanup Complete Date: 09/17/1991
Decode for Region: North West Region

UST:
Facility ID: 10668
Facility Telephone: 405-302-6673
Permittee Name: Chris Weldon
Number of Permitted Tanks: 6
Active Tanks: 6
Decommissioned Tanks: Not reported
Number of Tanks: 6

AST:
Facility Id: 022106
Hazardous Substance: PROPANE
Reporting Quantities: 500-999

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Quantity Units: GALLONS
Physical State: GAS
Storage 1: ABOVEGROUND TANK

OR SPILLS:
Facility ID: 2003-2356
Incident Status: Archive
Material: Not reported
Quantity: 90
Unit of Measure: Gallons
Release Date: 10/22/2003
Description: 90 Gallons gasoline spill to pavement and storm drain.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Tank Truck
Media: On pavement/asphalt - not direct on soil
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2003-2356
Incident Status: Archive
Material: Not reported
Quantity: 90
Unit of Measure: Gallons
Release Date: 10/22/2003
Description: 90 Gallons gasoline spill to pavement and storm drain.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Tank Truck
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2003-2356
Incident Status: Archive
Material: Not reported
Quantity: 90
Unit of Measure: Gallons
Release Date: 10/22/2003
Description: 90 Gallons gasoline spill to pavement and storm drain.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Tank Truck
Media: Not reported
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2002-3119
Incident Status: Archive
Material: Diesel fuel
Quantity: 30
Unit of Measure: Gallons
Release Date: 12/28/2002
Description: Truck tank overfill - spill to pavement.
Lat/Long: 45.5444 / -122.3928
Source: UST
Media: On pavement/asphalt - not direct on soil

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Responsible Company: Flying J Truck Stop
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2002-3119
Incident Status: Archive
Material: Diesel fuel
Quantity: 30
Unit of Measure: Gallons
Release Date: 12/28/2002
Description: Truck tank overfill - spill to pavement.
Lat/Long: 45.5444 / -122.3928
Source: UST
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: Flying J Truck Stop
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2012-0966
Incident Status: Archive
Material: Diesel fuel
Quantity: 60
Unit of Measure: Gallons
Release Date: 04/05/2012
Description: Swift Transportation truck spilled 60 gallons diesel to the pavement due to engine malfunction. NRCES en-route to cleanup.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Suspected, unknown, or no discharge
Responsible Company: Swift Transportation Co., Inc.
Responsible Address: PO Box 29243
Responsible City,St,Zip: Phoenix, AZ 85038-9243

Facility ID: 2012-0966
Incident Status: Archive
Material: Diesel fuel
Quantity: 60
Unit of Measure: Gallons
Release Date: 04/05/2012
Description: Swift Transportation truck spilled 60 gallons diesel to the pavement due to engine malfunction. NRCES en-route to cleanup.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: On pavement/asphalt - not direct on soil
Responsible Company: Swift Transportation Co., Inc.
Responsible Address: PO Box 29243
Responsible City,St,Zip: Phoenix, AZ 85038-9243

Facility ID: 2007-0938
Incident Status: Archive
Material: Not reported
Quantity: 5
Unit of Measure: Gallons
Release Date: 05/08/2007
Description: While drilling for a core sample to comply with a DEQ Initial 20-day report form for UST Cleanup Projects, Kadence Environmental nicked a fuel line causing the release of 5 gallons of medium grade gasoline at

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

the Flying J. Travel Plaza in Troutdale. Kadence is going to dig a 2' X 2' hole, remove the soil and vacuum any remaining fuel for cleanup.
Lat/Long: 45.5444 / -122.3928
Source: UST
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: Not reported
Responsible Address: Not reported
Responsible City,St,Zip: Not reported

Facility ID: 2007-0938
Incident Status: Archive
Material: Not reported
Quantity: 5
Unit of Measure: Gallons
Release Date: 05/08/2007
Description: While drilling for a core sample to comply with a DEQ Initial 20-day report form for UST Cleanup Projects, Kadence Environmental nicked a fuel line causing the release of 5 gallons of medium grade gasoline at the Flying J. Travel Plaza in Troutdale. Kadence is going to dig a 2' X 2' hole, remove the soil and vacuum any remaining fuel for cleanup.
Lat/Long: 45.5444 / -122.3928
Source: UST
Media: Non-saturated soil, rock, etc.
Responsible Company: Not reported
Responsible Address: Not reported
Responsible City,St,Zip: Not reported

Facility ID: 2006-0832
Incident Status: Archive
Material: Diesel fuel
Quantity: 1
Unit of Measure: Gallons
Release Date: 03/24/2006
Description: Equipment failure at a diesel pump at flying J in Troutdale..... initial report amount unknown, later reconciled now as a quart.....
Lat/Long: 45.5444 / -122.3928
Source: Bulk Petroleum Storage
Media: Non-saturated soil, rock, etc.
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2005-2376
Incident Status: Archive
Material: Diesel fuel
Quantity: 100
Unit of Measure: Gallons
Release Date: 10/11/2005
Description: Hazmat 3 on-scene of a 100 gallon diesel spill at the Flying J Truckstop in Troutdale. Semi-truck hit and run rupturing another semi saddle tank. Impact to pavement and storm drain. RM Cat en-route.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Suspected, unknown, or no discharge
Responsible Company: Boomerang Enterprises
Responsible Address: 3896 Picciola Rd Lot 433
Responsible City,St,Zip: Fruitland Pk, FL 34731-6374

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Facility ID: 2005-2376
Incident Status: Archive
Material: Diesel fuel
Quantity: 100
Unit of Measure: Gallons
Release Date: 10/11/2005
Description: Hazmat 3 on-scene of a 100 gallon diesel spill at the Flying J Truckstop in Troutdale. Semi-truck hit and run rupturing another semi saddle tank. Impact to pavement and storm drain. RM Cat en-route.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: On pavement/asphalt - not direct on soil
Responsible Company: Boomerang Enterprises
Responsible Address: 3896 Picciola Rd Lot 433
Responsible City,St,Zip: Fruitland Pk, FL 34731-6374

Facility ID: 2005-2376
Incident Status: Archive
Material: Diesel fuel
Quantity: 100
Unit of Measure: Gallons
Release Date: 10/11/2005
Description: Hazmat 3 on-scene of a 100 gallon diesel spill at the Flying J Truckstop in Troutdale. Semi-truck hit and run rupturing another semi saddle tank. Impact to pavement and storm drain. RM Cat en-route.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: Boomerang Enterprises
Responsible Address: 3896 Picciola Rd Lot 433
Responsible City,St,Zip: Fruitland Pk, FL 34731-6374

Facility ID: 2005-0712
Incident Status: Archive
Material: Diesel fuel
Quantity: 49
Unit of Measure: Gallons
Release Date: 04/05/2005
Description: Estimated 49 gallon diesel spill to soil at the Flying J Travel Plaza in Troutdale. Spill occured after tank was ruptured by a rock. Jeff Miltonberger (RM Cat) hired to cleanup.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: On pavement/asphalt - not direct on soil
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2005-0712
Incident Status: Archive
Material: Diesel fuel
Quantity: 49
Unit of Measure: Gallons
Release Date: 04/05/2005
Description: Estimated 49 gallon diesel spill to soil at the Flying J Travel Plaza in Troutdale. Spill occured after tank was ruptured by a rock. Jeff Miltonberger (RM Cat) hired to cleanup.

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2005-0712
Incident Status: Archive
Material: Diesel fuel
Quantity: 49
Unit of Measure: Gallons
Release Date: 04/05/2005
Description: Estimated 49 gallon diesel spill to soil at the Flying J Travel Plaza in Troutdale. Spill occured after tank was ruptured by a rock. Jeff Miltonberger (RM Cat) hired to cleanup.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Non-saturated soil, rock, etc.
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2005-0648
Incident Status: Archive
Material: Diesel fuel
Quantity: 100
Unit of Measure: Gallons
Release Date: 03/26/2005
Description: 100 gallon diesel spill at Flying J. Truck stop due to mechanical failure during fuel transfer. Spill to asphalt and metal culvert which crosses I-84 and ends in soil. No storm drain or waterways affected. Absorbents and vac truck used to contain the spill to the culvert and adjacent soil. RM Cat hired for cleanup.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: On pavement/asphalt - not direct on soil
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2005-0648
Incident Status: Archive
Material: Diesel fuel
Quantity: 100
Unit of Measure: Gallons
Release Date: 03/26/2005
Description: 100 gallon diesel spill at Flying J. Truck stop due to mechanical failure during fuel transfer. Spill to asphalt and metal culvert which crosses I-84 and ends in soil. No storm drain or waterways affected. Absorbents and vac truck used to contain the spill to the culvert and adjacent soil. RM Cat hired for cleanup.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2005-0648
Incident Status: Archive
Material: Diesel fuel
Quantity: 100
Unit of Measure: Gallons
Release Date: 03/26/2005
Description: 100 gallon diesel spill at Flying J. Truck stop due to mechanical failure during fuel transfer. Spill to asphalt and metal culvert which crosses I-84 and ends in soil. No storm drain or waterways affected. Absorbents and vac truck used to contain the spill to the culvert and adjacent soil. RM Cat hired for cleanup.
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Non-saturated soil, rock, etc.
Responsible Company: Flying J Travel Plaza
Responsible Address: 400 NW Frontage Rd
Responsible City,St,Zip: Troutdale, OR 97060-9527

Facility ID: 2005-0362
Incident Status: Archive
Material: Diesel fuel
Quantity: 80
Unit of Measure: Gallons
Release Date: 02/20/2005
Description: driver tried to drive over rocks as shortcut to fuel island - none of the oil released entered the water - diesel to soil and pavement
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: On pavement/asphalt - not direct on soil
Responsible Company: Service Transport
Responsible Address: 970 Peaceful Ln
Responsible City,St,Zip: Burbank, WA 99323-8623

Facility ID: 2005-0362
Incident Status: Archive
Material: Diesel fuel
Quantity: 80
Unit of Measure: Gallons
Release Date: 02/20/2005
Description: driver tried to drive over rocks as shortcut to fuel island - none of the oil released entered the water - diesel to soil and pavement
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: Service Transport
Responsible Address: 970 Peaceful Ln
Responsible City,St,Zip: Burbank, WA 99323-8623

Facility ID: 2005-0362
Incident Status: Archive
Material: Diesel fuel
Quantity: 80
Unit of Measure: Gallons
Release Date: 02/20/2005
Description: driver tried to drive over rocks as shortcut to fuel island - none of

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

the oil released entered the water - diesel to soil and pavement
Lat/Long: 45.5444 / -122.3928
Source: Motor Vehicle - Commercial
Media: Non-saturated soil, rock, etc.
Responsible Company: Service Transport
Responsible Address: 970 Peaceful Ln
Responsible City,St,Zip: Burbank, WA 99323-8623

HAZMAT:

Responsble Party:	SHAW, ARNOLD E
RP Company:	RA BROOKS TRUCKING CO INC
RP Address:	5500 OLD JACKSONVILLE HWY
RP City,St,Zip:	N. LITTLE ROCK, AR 72117
Facility ID:	050107
OERS Number:	20050712
Dept Rsp:	GRESHAM FIRE & EMERG SRVCS
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	GRESHAM FIRE & EMERG SRVCS
Date Added:	04/08/2005
Unit:	Not reported
Agency Phone:	5036182355
Osfm Incident Report Number:	050107
Dept. Responding:	GRESHAM FIRE & EMERG SRVCS

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Person Making Report:	DAVID PHILLIPS
Title:	CAPTAIN
Agency:	GRESHAM FIRE & EMERG SRVCS
Phone:	5036182355
Date Of Incident:	04/05/2005
Call Time:	4:03:00 AM
In Route:	4:06:00 AM
Arrival:	4:11:00 AM
Depart Scene:	5:01:00 AM
Back In Quarters:	5:05:00 AM
In Service:	5:01:00 AM
Dist Of Incident:	GRESHAM FIRE & EMERG SRVCS
Were State Resources Used?:	False
Was Oers Notified?:	True
Oers Number:	20050712
Team Number:	Not reported
Agency Report Number:	053262
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Private Land
Area Type:	Commercial
Responsible Party(Ies):	SHAW, ARNOLD E
Company:	RA BROOKS TRUCKING CO INC
Respcontact:	Not reported
Address:	5500 OLD JACKSONVILLE HWY
Resp City:	N. LITTLE ROCK
Resp State:	AR
Resp ZipCode:	72117
Phone:	8006435983
Resp Phone2:	Not reported
Weather:	0
Temperature:	0
Wind Speed:	1
Wind Direction:	Not reported
Were Haz Materials Released?:	True
Operation Performed:	Not reported
Cause:	Motor Vehicle Accident
Vehicle And Cargo:	5000
Fixed Property:	100
Total Loss:	$5,100.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

Chemical:

Chemical Info:	141
Chemical Id:	9332
Incident Id:	050107
Chemical Name:	DIESEL FUEL

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

UNNA: Not reported
Amount At Risk: 150
Amount Released: 70
Amount Measured: 2
Biological: False
Radiological: False

Chemical Id: 9332
Chemical Name: DIESEL FUEL
Hazardous Ingredient: PETROLEUM MID-DISTILLATES
Hazardous Class 1: 3.3
Hazardous Class 2: Not reported
Hazardous Rank: 2
Case Number: 68476346
UNNA Number: 1993
EPA Pest Reg: Not reported
EHA Chem: N
PSM Chem: N
CAA 112R Chem: N

Chemical Info: 142
Chemical Id: 19115
Incident Id: 050107
Chemical Name: MOTOR OIL
UNNA: Not reported
Amount At Risk: 11
Amount Released: 0
Amount Measured: 2
Biological: False
Radiological: False

Chemical Id: 19115
Chemical Name: MOTOR OIL
Hazardous Ingredient: PETROLEUM HYDROCARBONS
Hazardous Class 1: 4.5
Hazardous Class 2: 6.4
Hazardous Rank: 2
Case Number: 64742547
UNNA Number: 0000
EPA Pest Reg: Not reported
EHA Chem: Not reported
PSM Chem: Not reported
CAA 112R Chem: Not reported

Method:
Method Used Id: 117
Incident Id: 050107
Identity Method: 5

Released:
Release Behavior Id: 176
Incident Id: 050107
Behavior: 10

Narrative:
Narrative Id: 139

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Incident Id: 050107
Incident Narrative: Semi-truck operator ran over large rocks that were piled up in landscape area at the entrance of Flying J Truck Stop, 400 NW Frontage Rd., Troutdale, Oregon 97060. The spill was confined by truck stop employee's prior to our arrival. Flying J called a clean up company and a tow was ordered for the truck. E75 & E73 placed an inflatable pool to capture further leaked product. The rocks damaged the left battery box & saddle tank, the oil pan. The truck came to rest with one rock under the motor and one rock between the front & rear duals.
Incident Date: 4/5/2005

Responsble Party:	FLYING J TRAVEL PLAZA
RP Company:	S.A.A.
RP Address:	400 NW FRONTAGE RD
RP City,St,Zip:	TROUTDALE, OR 97060
Facility ID:	050085
OERS Number:	20052376
Dept Rsp:	GRESHAM FIRE & EMERG SRVCS
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	GRESHAM FIRE & EMERG SRVCS
Date Added:	12/16/2005

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Unit:	Not reported
Agency Phone:	5036182590
Osfm Incident Report Number:	050085
Dept. Responding:	GRESHAM FIRE & EMERG SRVCS
Person Making Report:	MICHAEL TRAEGER
Title:	LT
Agency:	GRESHAM FIRE & EMERG SRVCS
Phone:	5036182590
Date Of Incident:	10/11/2005
Call Time:	7:33:00 PM
In Route:	7:34:00 PM
Arrival:	7:59:00 PM
Depart Scene:	9:20:00 PM
Back In Quarters:	9:50:00 PM
In Service:	9:50:00 PM
Dist Of Incident:	GRESHAM FIRE & EMERG SRVCS
Were State Resources Used?:	True
Was Oers Notified?:	True
Oers Number:	20052376
Team Number:	HM03
Agency Report Number:	059393
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Private Land
Area Type:	Not reported
Responsible Party(Ies):	FLYING J TRAVEL PLAZA
Company:	S.A.A.
Respcontact:	JEREMY BOYER
Address:	400 NW FRONTAGE RD
Resp City:	TROUTDALE
Resp State:	OR
Resp ZipCode:	97060
Phone:	5036657741
Resp Phone2:	Not reported
Weather:	1
Temperature:	4
Wind Speed:	1
Wind Direction:	E
Were Haz Materials Released?:	True
Operation Performed:	Normal Operation
Cause:	Motor Vehicle Accident
Vehicle And Cargo:	1300
Fixed Property:	0
Total Loss:	$1,300.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Chemical:

Chemical Info:	232
Chemical Id:	9332
Incident Id:	050085
Chemical Name:	DIESEL FUEL
UNNA:	Not reported
Amount At Risk:	200
Amount Released:	100
Amount Measured:	2
Biological:	False
Radiological:	False

Chemical Id:	9332
Chemical Name:	DIESEL FUEL
Hazardous Ingredient:	PETROLEUM MID-DISTILLATES
Hazardous Class 1:	3.3
Hazardous Class 2:	Not reported
Hazardous Rank:	2
Case Number:	68476346
UNNA Number:	1993
EPA Pest Reg:	Not reported
EHA Chem:	N
PSM Chem:	N
CAA 112R Chem:	N

Method:

Method Used Id:	191
Incident Id:	050085
Identity Method:	5

Released:

Release Behavior Id:	253
Incident Id:	050085
Behavior:	6

Release Behavior Id:	254
Incident Id:	050085
Behavior:	5

Narrative:

Narrative Id:	190
Incident Id:	050085
Incident Narrative:	Tractor trailer rig parked along side other rigs when one rig pulled out it struck the 100 gallon fuel cell of the affected rig caused the release of diesel fuel. Facility manager used bark dust to absorb and contain spill. He the coned off the area to prevent access by public. Manger applied a chemical to the tracks leading away from the spill. This product will "break down" the diesel. E75 reinforced the bark dust and attempted to stop the leak. E75 also shut off the fuel line between the fuel cells. HM3 applied kitty litter to dam/dike the storm drain exposure.
Incident Date:	10/11/2005

Responsble Party: B D R TRANSPORT CO

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

RP Company:	S.A.A.
RP Address:	7994 US ROUTE 5 S
RP City,St,Zip:	WESTMINSTER, VT 01158
Facility ID:	960252
OERS Number:	Not reported
Dept Rsp:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Date Added:	01/01/1985
Unit:	Not reported
Agency Phone:	5036182355
Osfm Incident Report Number:	960252
Dept. Responding:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Person Making Report:	STEPEHEN V BEST
Title:	LT
Agency:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Phone:	5036182355
Date Of Incident:	11/19/1996
Call Time:	5:28:00 AM
In Route:	12:00:00 AM
Arrival:	5:35:00 AM
Depart Scene:	12:00:00 AM
Back In Quarters:	12:00:00 AM

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

In Service:	7:50:00 AM
Dist Of Incident:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Were State Resources Used?:	False
Was Oers Notified?:	False
Oers Number:	Not reported
Team Number:	HM03
Agency Report Number:	96-006998
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Waterway
Area Type:	Commercial
Responsible Party(Ies):	B D R TRANSPORT CO
Company:	S.A.A.
Respcontact:	Not reported
Address:	7994 US ROUTE 5 S
Resp City:	WESTMINSTER
Resp State:	VT
Resp ZipCode:	01158
Phone:	8004210126
Resp Phone2:	Not reported
Weather:	0
Temperature:	0
Wind Speed:	0
Wind Direction:	Not reported
Were Haz Materials Released?:	True
Operation Performed:	In Route
Cause:	Unknown
Vehicle And Cargo:	160
Fixed Property:	0
Total Loss:	$160.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

Chemical:

Chemical Info:	904
Chemical Id:	9321
Incident Id:	960252
Chemical Name:	DIESEL
UNNA:	Not reported
Amount At Risk:	300
Amount Released:	150
Amount Measured:	2
Biological:	False
Radiological:	False

Chemical Id:	9321
Chemical Name:	DIESEL
Hazardous Ingredient:	PETROLEUM DISTILLATES

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Hazardous Class 1:	3.3
Hazardous Class 2:	6.3
Hazardous Rank:	2
Case Number:	68476346
UNNA Number:	1202
EPA Pest Reg:	Not reported
EHA Chem:	N
PSM Chem:	N
CAA 112R Chem:	N

Method:

Method Used Id:	6018
Incident Id:	960252
Identity Method:	5

Released:

Release Behavior Id:	4641
Incident Id:	960252
Behavior:	4

Narrative:

Narrative Id:	6009
Incident Id:	960252
Incident Narrative:	HM3, E-75, 701 CALLED TO DIESEL SPILL AT FLYING J TRUCK STOP. ARRIVED AND FOUND SPILL OF 150 GALLONS OF DIESEL FUEL. HEAVY RAINS CAUSING FUEL TO BE SPREAD OVER LARGE AREA. HM3 & E-75 INVESTIGATED SPREAD OF FUEL, PLACED BOOMS IN DITCHES & NEAR STORM DRAIN OPENINGS TO CONTROL FLOW OF DIESEL TO MAJOR WATERWAYS LIKE COLUMBIA RIVER. PADS WERE PLACED UNDER TRUCK BY DRIVER AND TRUCK STOP PERSONNEL TO CONTROL RUN OFF. PRIOR TO OUR ARRIVAL, TRUCK DRIVER HAD CLOSED CROSS OVER LINE TO FUEL TANK TO STOP FLOW PRIOR TO OUR ARRIVAL. HM INITIATED COMMUNICATIONS AND FACILITATED THEM WITH OARS, DEQ, OWNER GREG GAY IN VT, AND MANAGER OF FLYING J TRUCK STOP.
Incident Date:	11/19/1996

Responsble Party:	DON ROGNON
RP Company:	FLYING J TRUCK STOP
RP Address:	1104 COUNTRY HILLS DR
RP City,St,Zip:	ODGEN, UT 84403
Facility ID:	030161
OERS Number:	2003-235
Dept Rsp:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Date Added:	12/09/2003
Unit:	Not reported
Agency Phone:	5036182590
Osfm Incident Report Number:	030161
Dept. Responding:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Person Making Report:	MICHAEL E TRAEGER
Title:	LIEUTENANT
Agency:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Phone:	5036182590
Date Of Incident:	10/22/2003
Call Time:	6:23:00 PM
In Route:	6:24:00 PM
Arrival:	6:36:00 PM
Depart Scene:	12:00:00 AM
Back In Quarters:	12:00:00 AM
In Service:	8:11:00 PM
Dist Of Incident:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Were State Resources Used?:	False
Was Oers Notified?:	True
Oers Number:	2003-235
Team Number:	HM03
Agency Report Number:	Not reported
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Private Road
Area Type:	Commercial
Responsible Party(Ies):	DON ROGNON
Company:	FLYING J TRUCK STOP
Respcontact:	Not reported
Address:	1104 COUNTRY HILLS DR
Resp City:	ODGEN
Resp State:	UT
Resp ZipCode:	84403

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Phone:	8016241000
Resp Phone2:	Not reported
Weather:	0
Temperature:	0
Wind Speed:	0
Wind Direction:	Not reported
Were Haz Materials Released?:	True
Operation Performed:	Normal Operation
Cause:	Unknown
Vehicle And Cargo:	140
Fixed Property:	0
Total Loss:	$140.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

Chemical:

Chemical Info:	2105
Chemical Id:	13288
Incident Id:	030161
Chemical Name:	GASOLINE
UNNA:	Not reported
Amount At Risk:	90
Amount Released:	90
Amount Measured:	2
Biological:	False
Radiological:	False

Chemical Id:	13288
Chemical Name:	GASOLINE
Hazardous Ingredient:	PETROLEUM DISTILLATES
Hazardous Class 1:	3.1
Hazardous Class 2:	6.3
Hazardous Rank:	2
Case Number:	8006619
UNNA Number:	1203
EPA Pest Reg:	Not reported
EHA Chem:	N
PSM Chem:	N
CAA 112R Chem:	N

Method:

Method Used Id:	1021
Incident Id:	030161
Identity Method:	6

Released:

Release Behavior Id:	5482
Incident Id:	030161

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Behavior: 5

Narrative:
Narrative Id: 1502
Incident Id: 030161
Incident Narrative: MOTOR HOME WAS FILLING WITH GASOLINE AT GAS STATION. THE PUMP HANDLE FAILED TO SHUT OFF AND IT WAS NOT NOTED UNTIL 90 GALLONS WERE RELEASED. GRESHAM FIRE ENGINE 75 ARRIVED AND CONSTRUCTED AN UNDERFLOW DAM IN THE EFFECTED WATERWAY. E73 ARRIVED AND APPLIED ABSORBANT PADS, KITTY LITTER, AND REMOVED IGNITION HAZARDS. NOTIFIED FACILITY TO CONTACT A CLEANUP COMPANY AND THEY COMPLIED.
Incident Date: 10/22/2003

HSIS:
Facility Id: 022106
Chemical Is Extremely Hazardous Substance (EHS): No
Department Or Division Of Company: 449
Facility Has Written Emergency Plan: Yes
Contains 112R: No
NAICS Code 1: 447110
NAICS Desc 1: GASOLINE STATIONS WITH CONVENIENCE STORES
NAICS Code 2: 000000
NAICS Desc 2: Not reported
Manager Name: MICHAEL KEY
Business Phone: 5036657741
Mailing Address: PO BOX 26210
Mailing City,St,Zip: OKLAHOMA CITY, OK 73126
No. of Employees: 30
Day Phone: 5036657741
Placard: Yes
Fire Dept Code: 0144
Sprinkler System: No
Emergency Contact: BRANDON YOUNG
Emergency Procedure: MGRS OFFICE
Business Type: TRAVEL PLAZA GASOLINE SERVICE STATION

Facility:
Facility Id: 022106
Physical State Of The Substance: 3
Physical State: GAS
Average Amount Possessed During The Year Code: 11
Maximum Amount Possessed During The Year Code: 11
Applicable Unit Of Measure Code: 2
Description Of The Unit Of Measure: GALLONS
Type Code: A
Description: ABOVEGROUND TANK
Type Code: Not reported
Temperature Description: Not reported
Pressure of Code: 2
Pressure Description: GREATER THAN NORMAL PRESSURE
Pressure of Code: Not reported
Pressure Description: Not reported
Temperature Description: LESS THAN NORMAL TEMPERATURE BUT NOT CRYOGENIC
Temperature of The Hazardous Substance Code: 6
Temperature Description: Not reported
Temperature of The Hazardous Substance Code: Not reported

LOVE'S TRAVEL STOP #449 (Continued) **U000431053**

Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	500-999
Description Of The Avg Qnty Code:	500-999
Most Hazardous Ingridient:	PROPANE
United Nations/north America 4 Digit Class Number:	1075
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON MSDS
Substance Pure:	True
Substance Mix:	False
First Hazardous Class Code For Chemical:	Flammable Gas
Second Hazardous Class Code For Chemical:	Acute Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	2.1
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	1075
Chemical Abstract Service Identifier Number:	74986
Chemical Is Extremely Hazardous Substance (EHS):	No
First Hazardous Class Code For Chemical:	Flammable Gas
Second Hazardous Class Code For Chemical:	Acute Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	2.1
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

20
NW
1/2-1
0.727 mi.
3840 ft.

FRONTAGE ROAD DITCH **ECSI S108010607**
I-84 FRONTAGE RD. BETWEEN NE GRAHAM RD. AND MARINE DR. **N/A**
WOOD VILLAGE, OR 97060

Relative:
Lower

Actual:
43 ft.

ECSI:

State ID Number:	4509
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	89981
Further Action:	0
Lat/Long (dms):	45 32 43.10 / -122 23 41.30
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N

FRONTAGE ROAD DITCH (Continued) **S108010607**

Range Coord: 3.00
Range Zone: E
Section Coord: 25
Qtr Section: Not reported
Tax Lots: Not reported
Size: Not reported
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 08/23/2013
Created Date: 09/08/2005
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported

Narrative:

NARR ID: 5747163
NARR Code: Contamination
Created By: JWAGGY
Created Date: 09/08/2005
Updated By: GWISTAR
Updated Date: 08/28/2006
Decode for NarcdID: Contamination
NARR Comments: (7/7/05 MG/ER) This is the Frontage Road on the North side of I-84 across the highway from the Flying J Travel Plaza. During the cleanup of a diesel fuel spill, historical heavy oil contamination of unknown origin was discovered in the ditch line at a range of 5,000 to 36,000 ppm.

NARR ID: 5747164
NARR Code: Hazardous Substance/Waste Types
Created By: JWAGGY
Created Date: 09/08/2005
Updated By: JWAGGY
Updated Date: 09/08/2005
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: heavy oil

NARR ID: 5747167
NARR Code: Site Location
Created By: JWAGGY
Created Date: 09/08/2005
Updated By: JWAGGY
Updated Date: 09/08/2005
Decode for NarcdID: Site Location
NARR Comments: Frontage Road on the North side of I-84, across the highway from the Flying J Travel Plaza.

NARR ID: 5747169
NARR Code: Manner of Release
Created By: JWAGGY
Created Date: 09/08/2005
Updated By: JWAGGY
Updated Date: 09/08/2005
Decode for NarcdID: Manner of Release
NARR Comments: No clear source.

FRONTAGE ROAD DITCH (Continued) **S108010607**

NARR ID: 5747165
NARR Code: Media Contamination
Created By: JWAGGY
Created Date: 09/08/2005
Updated By: JWAGGY
Updated Date: 09/08/2005
Decode for NarcdID: Media Contamination
NARR Comments: soil

NARR ID: 5747168
NARR Code: Site Ownership
Created By: JWAGGY
Created Date: 09/08/2005
Updated By: JWAGGY
Updated Date: 09/08/2005
Decode for NarcdID: Site Ownership
NARR Comments: No clear owner/responsible party. Site in located on highway right-of-way.

NARR ID: 5747166
NARR Code: Remedial Action
Created By: JWAGGY
Created Date: 09/08/2005
Updated By: JWAGGY
Updated Date: 09/08/2005
Decode for NarcdID: Remedial Action
NARR Comments: (9/7/05 MG/ER) The site has been closed. ECSI listing for informational purposes.

Administrative Action:
Action ID: 9491
Region: Northwestern Region
Complete Date: 09/08/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/30/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0
Comments: 60 tons of soil removed in 2009. Uncertain on exact date of removal. Analytical indicated majority of samples were below the generic petroleum cleanup value of 500 mg/kg. Ditch is going to be overlain by the new expanded roadway.

Action ID: 9413
Region: Northwestern Region
Complete Date: 09/08/2009
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/25/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Closeout activities on completed project

FRONTAGE ROAD DITCH (Continued) **S108010607**

Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 09/08/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/08/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9413
Region: Northwestern Region
Complete Date: 09/08/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/08/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Closeout activities on completed project
Further Action: 0
Comments: The site is closed. ECSI listing for informational purposes.

21
WSW
1/2-1
0.746 mi.
3941 ft.

GATEWAY ESTATES **ECSI S109154817**
1360 SW 257TH DR **VCP N/A**
TROUTDALE, OR 97060 **NPDES**

Relative:
Higher

Actual:
303 ft.

ECSI:
State ID Number: 119
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 831
Investigation: No Further Action
FACA ID: 8802
Further Action: 0
Lat/Long (dms): 45 31 54.00 / -122 23 58.00
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 36
Qtr Section: Not reported
Tax Lots: Not reported
Size: 5 acres

GATEWAY ESTATES (Continued) **S109154817**

NPL: False
Orphan: False
Updated By: SMILLER
Update Date: 08/19/2014
Created Date: 08/03/1988
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name: Gatewood Estates

Hazardous Release:
Substance ID.: 121992
Haz Release ID: 382793
Qty Released: 1800 gals
Date Released: 11-11-80
Update Date: 03/08/1988
Update By: Not reported
Substance Code: ECD211
Substance Name: PAINT WASTES AND SOLVENTS
Substance Abbrev.: Not reported
Comment ID: 302810
Release Code: Data Sources
Release Comments: NWR General file
Decode for Relcomcd: Data Sources
Sampling Result ID: 347024
Feature Id: Not reported
Hazard Release Id: 382793
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: False
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Sample collected from unknown location 11/20/80; results not available
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Soil

Narrative:
NARR ID: 5730203
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: On Nov 11, 1980, Goodman Sanitation pumped 1800 gals of paint wastes from tanks at D & M Wood Products, Inc., (PO Box 20037, Portland, OR 97220). The waste was disposed of in a pit on property operated by Goodman Sanitation. The disposal location was the southern portion of

GATEWAY ESTATES (Continued) **S109154817**

the Goodman property, between a fence and two underground septic waste disposal tanks.

NARR ID: 5730204
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: Correspondence from owner and/or operator; Notice of Violation Letter; 6/29/94 phone conversation with Albert Mauck.

NARR ID: 5730205
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: paint thinners and paint residues

NARR ID: 5730206
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Soil contamination, possible groundwater contamination. Pit dimensions were approximately 25 feet by 10 feet by 10 feet deep.

NARR ID: 5730207
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: SMILLER
Updated Date: 08/18/2014
Decode for NarcdID: Remedial Action
NARR Comments: Soon after the 1,800 gallons of paint waste and thinner were dumped at the site, the affected soils were excavated and allegedly disposed of in Arlington as a hazardous waste. Albert Hanson of the PUC collected and submitted a sample to the DEQ lab in 11/80, but no information is available on the sample location or analytical results. In addition no documentation remains of soil disposal at Arlington.(2/7/08 GMW/SAS) DEQ is not aware of any environmental work at this site since the early 1980s. Human health or ecological risks may still be present. Apparently, the site is about to be redeveloped into residential units.A Phase II Sampling was submitted to DEQ on August 28, 2008. Analytical results indicate that subsurface soils do noat appear to be impacted by contaminatns exceeding DEQ's generic risk based concentrations. See attached web-docs NFA letter for more details.

NARR ID: 5730208
NARR Code: Containment Units
Created By: Not reported

GATEWAY ESTATES (Continued) **S109154817**

Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Containment Units
NARR Comments: pit

Permit:
Permit Agency: DEQ
Permit Number: 119
Permit Type: SW Disposal
Comments: Closed 1973

Administrative Action:
Action ID: 9443
Region: Northwestern Region
Complete Date: 10/31/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/18/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: [8/18/14 SA/SAM] FYI- NFA updated on 8/18/2014- appears NFA letter was loaded into database in 2008, but NFA action code was never changed.

Action ID: 9437
Region: Northwestern Region
Complete Date: 07/12/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters

GATEWAY ESTATES (Continued) **S109154817**

Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 07/12/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9505
Region: Northwestern Region
Complete Date: 07/12/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Confirmatory Sampling recommended
Further Action: Low
Comments: Not reported

Action ID: 9508
Region: Headquarters
Complete Date: 02/12/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Action ID: 9435
Region: Northwestern Region
Complete Date: 10/31/2008

GATEWAY ESTATES (Continued) **S109154817**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/01/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 131523
Operation Status: Active
Common Name: Goodman Sanitation
Yrs of Operation: Not reported
Comments: Septic tank and excavating service
Updated Date: 03/07/1995
Updated By: jxh
Decode for OpstatID: Active
Operations SIC Id: 195591
SIC Code: 7699
Created By: Not reported
Created Date: 12/17/2002

VCS:
ECS Site ID: 119
Facility Size: 5 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 10/31/2008
End Date: 10/31/2008
Facility Status: Completed
Program: ICP
Latitude: 45.53159
Longitude: -122.3994

NPDES:
WQ File Nbr: 118366
Legal Name: MAUCK, ALEX
Region: NWR
Pri SIC: 1521
Facility Type: SINGLE FAMILY HOUSING CONSTR.
Latitude: 45.5316
Longitude: -122.3994
Category: STM
Permit Type: GEN12C(AGENT)
Permit Active: True
Is Active?: Not reported
Permit Description: Stormwater; NPDES construction more than 1 acre disturbed ground, issued by agent
Expiration Date: 11/30/2015
EPA Number: ORR10C125
UIC Facility: False
Admin Agent: City of Troutdale
Last Action Date: 06/15/2015
Permit Writer: Jurries
Compliance Inspector: Not reported

GATEWAY ESTATES (Continued) **S109154817**

DMR Reviewer: Not reported
Application Number: 958614
Class: MINOR
Start Date: 07/24/2008
Region Decode: North West Region

22
NNW
1/2-1
0.855 mi.
4513 ft.

AAR WESTERN SKYWAYS INC **ECSI** **1000136409**
PORTLAND TROUTDALE ARPRT **CRL** **ORD027802370**
TROUTDALE, OR 97060 **LUST**
RCRA NonGen / NLR

Relative:
Lower

Actual:
34 ft.

ECSI:
State ID Number: 92
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 832
Investigation: Listed on the CRL/Inventory
FACA ID: 39909
Further Action: 260
Lat/Long (dms): 45 32 54.00 / -122 23 51.00
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 23
Qtr Section: Not reported
Tax Lots: 73,27,23,26,25,22,52
Size: Not reported
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 08/23/2013
Created Date: 08/03/1988
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Low
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Owner, operator or other party under state or federal authority
Alias Name: Custom Aircraft Refinishing
Alias Name: Troutdale Airport

Hazardous Release:
Substance ID.: 121671
Haz Release ID: 382701
Qty Released: unknown
Date Released: unknown
Update Date: 03/08/1988
Update By: Not reported
Substance Code: 7440-47-3
Substance Name: CHROMIUM
Substance Abbrev.: Not reported
Substance Category ID: 8462
Substance Category: Inorganics

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8462
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318145
Sub Alias Name: CHROMIUM, INORGANIC
Substance Alias ID: 319294
Sub Alias Name: CHROMIUM, TOTAL
Comment ID: 304635
Release Code: Data Sources
Release Comments: soil and groundwater investigation filed in RA5-500-ECD
Decode for Relcomcd: Data Sources
Sampling Result ID: 346376
Feature Id: Not reported
Hazard Release Id: 382701
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 8.3 ppm
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Soil

Substance ID.: 121639
Haz Release ID: 382702
Qty Released: unknown
Date Released: unknown
Update Date: 03/08/1988
Update By: Not reported
Substance Code: 7439-92-1
Substance Name: LEAD
Substance Abbrev.: Not reported
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8466
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319256
Sub Alias Name: PB
Comment ID: 304633

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Release Code: Data Sources
Release Comments: soil and groundwater investigation filed in RA5-500-ECD
Decode for Relcomcd: Data Sources
Comment ID: 304634
Release Code: Release Containment
Release Comments: Six 530-gal. tanks storing used oil (2), paint thinner (2), spent solvents, and spent solvents, and gasoline. One 1,040-gal. tank storing aviation fuel.
Decode for Relcomcd: Release Containment
Sampling Result ID: 345018
Feature Id: Not reported
Hazard Release Id: 382702
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 24 ppm
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Soil

Substance ID.: 121472
Haz Release ID: 382731
Qty Released: unknown
Date Released: unknown
Update Date: 03/08/1988
Update By: Not reported
Substance Code: 57-12-5
Substance Name: CYANIDE (AS ION)
Substance Abbrev.: Not reported
Substance Category ID: 8465
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8465
Substance Category: Inorganics
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318818
Sub Alias Name: CN (AS ION)
Comment ID: 304631
Release Code: Data Sources
Release Comments: soil and groundwater investigation filed in RA5-500-ECD
Decode for Relcomcd: Data Sources
Sampling Result ID: 346377
Feature Id: Not reported
Hazard Release Id: 382731
Medium: 703

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 193 ppm
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Soil

Substance ID.: 121781
Haz Release ID: 382732
Qty Released: unknown
Date Released: unknown
Update Date: 03/08/1988
Update By: Not reported
Substance Code: 79-01-6
Substance Name: TRICHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317517
Sub Alias Name: ETHINYL TRICHLORIDE
Substance Alias ID: 317518
Sub Alias Name: ETHYLENE TRICHLORIDE
Substance Alias ID: 317519
Sub Alias Name: TCE
Substance Alias ID: 317520
Sub Alias Name: TRI-CLENE
Substance Alias ID: 317521
Sub Alias Name: TRICHLOROETHENE
Comment ID: 304636
Release Code: Data Sources
Release Comments: soil and groundwater investigation filed in RA5-500-ECD

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Decode for Relcomcd: Data Sources
Sampling Result ID: 345298
Feature Id: Not reported
Hazard Release Id: 382732
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 150 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Soil

Narrative:

NARR ID: 5729720
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (8/4/92 KPD/SAS) Western Skyways operated an aircraft maintenance facility at the Portland-Troutdale Airport. Allegedly, used solvents were either dumped onto the open ground or poured down a drain pipe. By the 1980s, the solvents, oils, and fuels were stored in underground storage tanks. A tank holding spent methylene chloride overflowed in 1986, spilling about 100 gallons. DEQ was notified but no action was taken due to the small size of the spill. A site inspection by Hahn and Associates in 1987 found soils contaminated with cyanide, lead, and chromium. Small amounts of chromium and lead were also in groundwater. A 1988 ***environmental assessment*** found low levels of chlorinated solvents (generally 10 to 150 ppb) in the soils.

NARR ID: 5729721
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: Abandoned Haz Waste Site Notebook; spill file; inspection reports; lab results; soil & groundwater investigation reports; UST decommissioning & contaminated soil removal reports (LUST log #26-87-0015).

NARR ID: 5729722
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: cyanide, chromium, trichloroethylene, lead; TPH

NARR ID: 5729723
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: May 1986 overflow/spill of 100 gallons of methylene chloride/wastewater mix. Also, allegedly poor waste-management practices.

NARR ID: 5729724
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: The site is located at the Portland-Troutdale Airport, north of Troutdale. A lake/marsh is located about a quarter-mile northwest of the site; the Sandy River is about a half mile east. The Reynolds Metal Superfund site (ECSI #154) is due north of the site. With the exception of the Reynolds facility, the area around the airport is largely empty.

NARR ID: 5729725
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (8/4/92 KPD/SAS) The underground storage tanks and contaminated soil were removed in 1990. However, the cleanup was apparently performed without DEQ knowledge or supervision (the site was placed on the Confirmed Release List one year after the cleanup). Post-removal soil sampling revealed no detectable solvents, and TPH was <500 ppm (acceptable for a Matrix Level II cleanup). Cyanide, chromium, and lead were not sampled for. SAS recommends that a state Preliminary Assessment (PA) be performed to evaluate the sufficiency of the cleanup.

NARR ID: 5729726
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Health Threats
NARR Comments: Soil contamination.

NARR ID: 5729727
NARR Code: Containment Units

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Containment Units
NARR Comments: Used oil 2 (530-gal.) tanks; Paint thinner 2 (530-gal.) tanks; spent solvents 1 (530-gal.) tank; gasoline 1 (530-gal.) tank; aviation fuel 1 (1,040-gal.) tank.

Administrative Action:
Action ID: 9440
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/06/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Low
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 12/12/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9448
Region: Headquarters
Complete Date: 09/12/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Review for final listing
Further Action: Not reported
Comments: Not reported

Action ID: 9426
Region: Headquarters
Complete Date: 08/03/1992
Rank Value: 0
Cleanup Flag: True
Created Date: 12/17/2002

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 12/13/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Northwestern Region
Complete Date: 08/04/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Low
Comments: Not reported

Action ID: 9498
Region: Headquarters
Complete Date: 12/14/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Headquarters
Complete Date: 06/25/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9445
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Responsible party notified re 11/88 Inventory listing
Further Action: Not reported
Comments: Not reported

Action ID: 9488
Region: Headquarters
Complete Date: 09/12/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing on Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Headquarters
Complete Date: 09/13/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 131494
Operation Status: Inactive
Common Name: AAR Western Skyways
Yrs of Operation: 1965-1988
Comments: Aircraft maintenance and refinishing.
Updated Date: 08/24/1995
Updated By: kpd
Decode for OpstatID: Inactive
Operations SIC Id: 195513
SIC Code: 4581
Created By: Not reported
Created Date: 12/17/2002
Operations SIC Id: 195823
SIC Code: 4500
Created By: Not reported
Created Date: 12/17/2002

CRL:
Facility ID: 92
Location ID: 39909
Status Code: LIS
Facility Status: State Basic Preliminary Assessment recommended (PA)
Lat/Long: 45.5483 / -122.3974

LUST:
Region: North Western Region
Facility ID: 26-94-0186
Cleanup Received Date: 10/06/1994
Cleanup Start Date: 10/06/1994
Cleanup Complete Date: 09/25/1995
Decode for Region: North West Region

RCRA NonGen / NLR:
Date form received by agency: 10/25/1988
Facility name: AAR WESTERN SKYWAYS INC
Facility address: PORTLAND TROUTDALE ARPRT
TROUTDALE, OR 97060
EPA ID: ORD027802370
Mailing address: 1111 NICHOLAS BLVD
ELK GROVE, IL 60007
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

AAR WESTERN SKYWAYS INC (Continued) **1000136409**

Owner/Operator Summary:
- Owner/operator name: ART ALFONSO
- Owner/operator address: 1111 NICHOLAS BLVD
  ELK GROVE, IL 60007
- Owner/operator country: Not reported
- Owner/operator telephone: (312) 439-3939
- Legal status: Other
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Historical Generators:
- Date form received by agency: 10/25/1988
- Site name: AAR WESTERN SKYWAYS INC
- Classification: Not a generator, verified

Violation Status: No violations found

23
NW
1/2-1
0.878 mi.
4634 ft.

ODOT - I-84 AT TROUDALE INTERCHANGE **ECSI S113909476**
I-84 AND MARINE DR. **VCP N/A**
TROUTDALE, OR 97060

Relative:
Lower

Actual:
43 ft.

ECSI:
- State ID Number: 5836
- Brown ID: 0
- Study Area: False
- Region ID: 2
- Legislatve ID: 0
- Investigation: Suspect
- FACA ID: 129512
- Further Action: 0
- Lat/Long (dms): 45 32 39.50 / -122 24 1.80
- County Code: 26.00
- Score Value: Not reported
- Cerclis ID: Not reported
- Township Coord.: 1.00
- Township Zone: N
- Range Coord: 3.00

ODOT - I-84 AT TROUDALE INTERCHANGE (Continued) **S113909476**

Range Zone: E
Section Coord: 26
Qtr Section: NE
Tax Lots: Not reported
Size: Not reported
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 09/10/2014
Created Date: 08/19/2013
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 08/19/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/19/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9484
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/19/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

VCS:
ECS Site ID: 5836
Facility Size: Not reported
Action: REMEDIAL INVESTIGATION
Start Date: 08/19/2013
End Date: Not reported
Facility Status: Active
Program: VCS
Latitude: 45.5443
Longitude: -122.4004

24
SE
1/2-1
0.985 mi.
5203 ft.

ACME RADIATOR — **ECSI** **S107421128**
2016 HISTORIC COLUMBIA RIVER HWY. — **UIC** **N/A**
TROUTDALE, OR 97060

Relative:
Lower

Actual:
54 ft.

ECSI:

State ID Number:	4460
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	89965
Further Action:	256
Lat/Long (dms):	45 31 34.30 / -122 22 13.80
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	4.00
Range Zone:	E
Section Coord:	31
Qtr Section:	BC
Tax Lots:	900
Size:	1.2 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	07/14/2014
Created Date:	08/02/2005
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	High
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5746916
NARR Code:	Contamination
Created By:	DMESSEN
Created Date:	08/02/2005
Updated By:	JWAGGY
Updated Date:	10/18/2005
Decode for NarcdID:	Contamination
NARR Comments:	(8/2/05 DM/SAP)During a hazardous waste technical assistance site visit, DEQ staff noted this facility was not connected to a sanitary sewer and liquid wastes were discharged to the ground outside through a trench drain or to a septic system connected to a small restroom. The exterior drainage area (the trench drain flows through the wall of the shop to an exterior area) was devoid of vegetation and staining was visible on the ground.

NARR ID:	5747348
NARR Code:	Hazardous Substance/Waste Types
Created By:	JWAGGY
Created Date:	10/18/2005
Updated By:	JWAGGY
Updated Date:	10/18/2005

ACME RADIATOR (Continued) **S107421128**

Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Automotive fluids, potentially heavy metals, solvents, oils and antifreeze.

NARR ID: 5747349
NARR Code: Manner of Release
Created By: JWAGGY
Created Date: 10/18/2005
Updated By: JWAGGY
Updated Date: 10/18/2005
Decode for NarcdID: Manner of Release
NARR Comments: Liquid wastes are discharged to the ground surface through a trench drain or to a septic system that is connected to a small restroom.

NARR ID: 5746915
NARR Code: Remedial Action
Created By: DMESSEN
Created Date: 08/02/2005
Updated By: JWAGGY
Updated Date: 10/18/2005
Decode for NarcdID: Remedial Action
NARR Comments: (8/2/05 DM/SAP) DEQ's Hazardous Waste program referred the site to Cleanup. Site screening recommended.(October 2005; JMW/SAP) As of October 2001, company had discontinued discharging water to the ground behind the shop. As of October 2005, DEQ has not received confirmation that the soil in this area has been analyzed for contamination and properly characterized for disposal. Because of the direct discharge of wastewater to the ground, Site Assessment recommends an evaluation be completed for this site.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 08/02/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/02/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Northwestern Region
Complete Date: 08/02/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/02/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: High
Comments: Not reported

ACME RADIATOR (Continued) **S107421128**

Operations:

Operation Id:	135123
Operation Status:	Inactive
Common Name:	Acme Radiator
Yrs of Operation:	~1997 - 1999
Comments:	Not reported
Updated Date:	10/18/2005
Updated By:	JWAGGY
Decode for OpstatID:	Inactive
Operations SIC Id:	198610
SIC Code:	7500
Created By:	JWAGGY
Created Date:	10/18/2005

OR UIC:

UIC Well #:	1
Type:	5X28
Type Description:	Motor Vehicle Waste Disposal Wells
Status:	Active
UIC Number:	13077
Facility Status:	Not Registered
Lat/Long:	45.526901 / -122.3698

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
TROUTDALE	S118140629	TEDDY PEETZ	1542 E HISTORIC COLUMBIA RIVER	97060	LUST
TROUTDALE	U003115602	M & D AUTOMOTIVE	20102 NE SANDY BLVD	97060	LUST, UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/06/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

CRL: Confirmed Release List and Inventory

All facilities with a confirmed release.

Date of Government Version: 11/01/2015
Date Data Arrived at EDR: 11/19/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

ECSI: Environmental Cleanup Site Information System

Sites that are or may be contaminated and may require cleanup.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 01/14/2016
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/21/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 53

Source: Department of Environmental Quality
Telephone: 503-229-6299
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/01/2015
Date Data Arrived at EDR: 11/19/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 26

Source: Department of Environmental Quality
Telephone: 503-229-5790
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/01/2015
Date Data Arrived at EDR: 11/19/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 26

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks

Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/21/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 42

Source: Office of State Fire Marshal
Telephone: 503-378-3473
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Recorded at ESCI Sites

Engineering controls are physical measures selected or approved by the Director for the purpose of preventing or minimizing exposure to hazardous substances. Engineering controls may include, but are not limited to, fencing, capping, horizontal or vertical barriers, hydraulic controls, and alternative water supplies.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

INST CONTROL: Institutional Controls Recorded at ESCI Sites

An institutional control is a legal or administrative tool or action taken to reduce the potential for exposure to hazardous substances. Institutional controls may include, but are not limited to, use restrictions, environmental monitoring requirements, and site access and security measures.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/28/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCS: Voluntary Cleanup Program Sites
Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

Date of Government Version: 01/05/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 24
Source: DEQ
Telephone: 503-229-5256
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects
Brownfields investigations and/or cleanups that have been conducted in Oregon.

Date of Government Version: 11/01/2015
Date Data Arrived at EDR: 11/19/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 25
Source: Department of Environmental Quality
Telephone: 503-229-6801
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facility Location Listing
A listing of recycling facility locations.

Date of Government Version: 12/01/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 55
Source: Department of Environmental Quality
Telephone: 503-229-5353
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

HIST LF: Old Closed SW Disposal Sites
A list of solid waste disposal sites that have been closed for a long while.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 07/08/2003
Date Made Active in Reports: 07/18/2003
Number of Days to Update: 10
Source: Department of Environmental Quality
Telephone: 503-229-5409
Last EDR Contact: 07/08/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

AOC MU: East Multnomah County Area
Approximate extent of TSA VOC plume February , 2002

Date of Government Version: N/A
Date Data Arrived at EDR: 10/07/2002
Date Made Active in Reports: 10/22/2002
Number of Days to Update: 15

Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AOC COL: Columbia Slough
Columbia Slough waterway boundaries.

Date of Government Version: 08/10/2005
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/16/2006
Number of Days to Update: 30

Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CDL 2: Clandestine Drug Lab Site Listing
A listing of clandestine drug lab site locations included in the Incident database.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 15

Source: Oregon State Police
Telephone: 503-373-1540
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

CDL: Uninhabitable Drug Lab Properties
The properties listed on these county pages have been declared by a law enforcement agency to be unfit for use due to meth lab and/or storage activities. The properties are considered uninhabitable until cleaned up by a state certified decontamination contractor and a certificate of fitness is issued by the Oregon Health Division.

Date of Government Version: 10/23/2015
Date Data Arrived at EDR: 11/17/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 27

Source: Department of Consumer & Business Services
Telephone: 503-378-4133
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

SPILLS: Spill Data
Oil and hazardous material spills reported to the Environmental Response Program.

Date of Government Version: 09/29/2015
Date Data Arrived at EDR: 10/01/2015
Date Made Active in Reports: 11/10/2015
Number of Days to Update: 40

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Semi-Annually

HAZMAT: Hazmat/Incidents
Hazardous material incidents reported to the State Fire Marshal by emergency responders. The hazardous material may or may not have been released.

Date of Government Version: 09/28/2015
Date Data Arrived at EDR: 11/08/2015
Date Made Active in Reports: 01/05/2016
Number of Days to Update: 58

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 05/01/2006
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/29/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 125

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIRS: Oregon Title V Facility Listing
A listing of Title V facility source and emissions information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/16/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 42

Source: Department of Environmental Quality
Telephone: 503-229-6459
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites Listing
A listing of coal ash disposal sites.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/10/2015
Date Made Active in Reports: 11/10/2015
Number of Days to Update: 61

Source: Department of Environmental Quality
Telephone: 541-298-7255
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities
A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 11/12/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 31

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information for hazardous waste facilities.

Date of Government Version: 11/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 59

Source: Department of Environmental Quality
Telephone: 541-633-2011
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/19/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 503-229-5521
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

HSIS: Hazardous Substance Information Survey
Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/21/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 42

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

OR MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 06/16/2015
Date Made Active in Reports: 07/24/2015
Number of Days to Update: 38

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 02/23/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 11/12/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 32

Source: Department of Environmental Quality
Telephone: 503-229-5657
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

UIC: Underground Injection Control Program Database
DEQ's Underground Injection Control Program is authorized by the Environmental Protection Agency (EPA) to regulate all underground injection in Oregon to protect groundwater resources.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/28/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 35

Source: Department of Environmental Quality
Telephone: 503-229-5945
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Oregon.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Oregon.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Oregon.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/27/2013
Number of Days to Update: 179

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 11/08/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 31

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/09/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Child Care Listings
Source: Employment Department
Telephone: 503-947-1420

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data
Source: Oregon Geospatial Enterprise Office
Telephone: 503-378-2166

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TROUTDALE ELEMENTARY SCHOOL
648 SE HARLOW AVENUE
TROUTDALE, OR 97060

TARGET PROPERTY COORDINATES

Latitude (North):	45.536856 - 45° 32' 12.68''
Longitude (West):	122.385836 - 122° 23' 9.01''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	547952.8
UTM Y (Meters):	5042557.0
Elevation:	228 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5992265 CAMAS, WA
Version Date:	2013
Northeast Map:	5992255 WASHOUGAL, WA
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

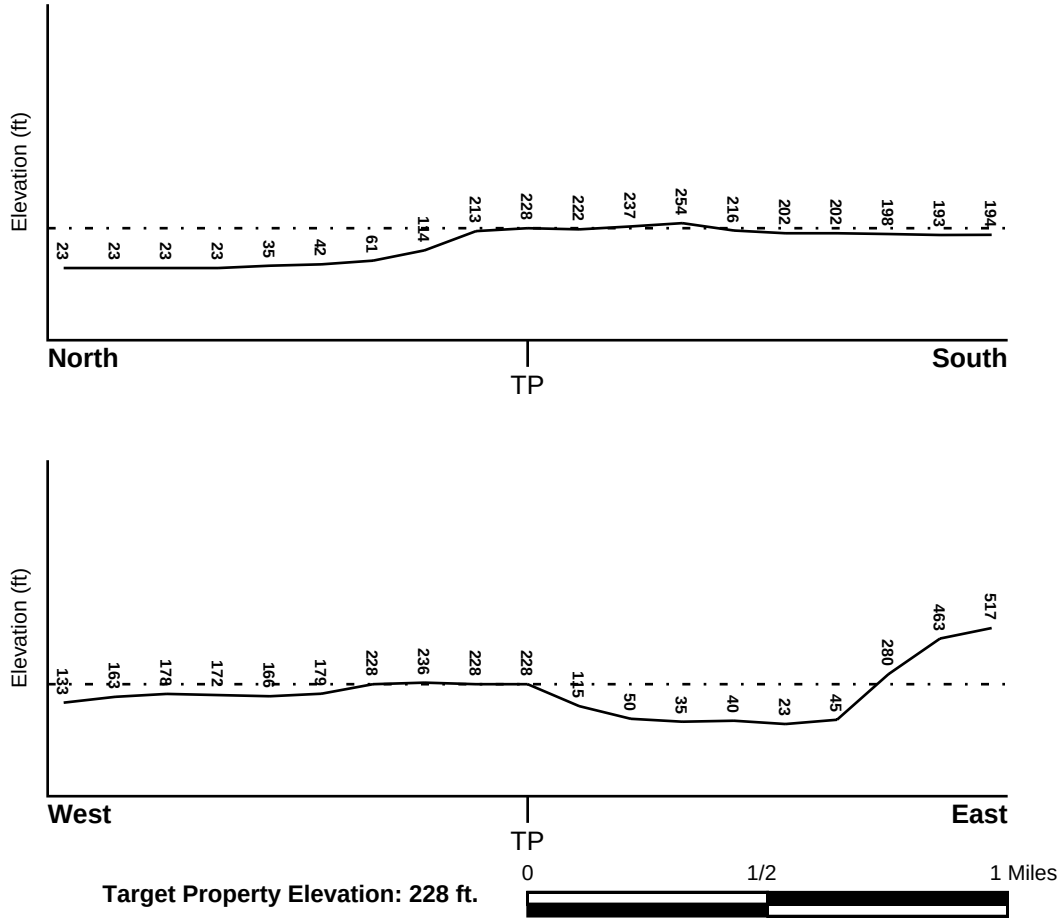
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 228 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
MULTNOMAH, OR	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 41051C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CAMAS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

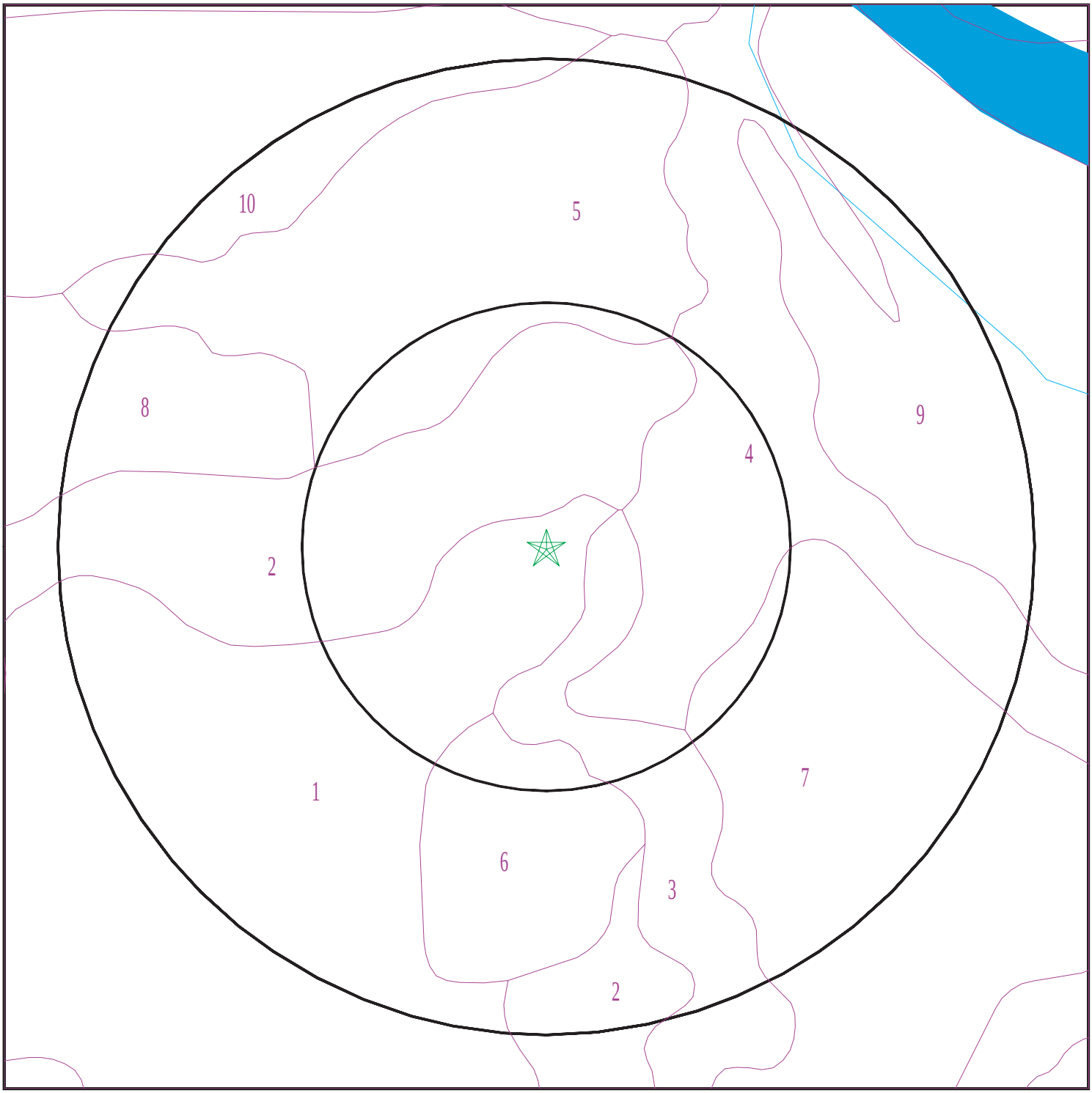
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4560264.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Troutdale Elementary School	CLIENT:	GeoDesign Inc.
ADDRESS:	648 SE Harlow Avenue Troutdale OR 97060	CONTACT:	Jeremy Zimber
LAT/LONG:	45.536856 / 122.385836	INQUIRY #:	4560264.2s
		DATE:	March 10, 2016 8:55 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: Multnomah

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	7 inches	38 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6
3	38 inches	59 inches	very gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 141 Min: 42	Max: 6.5 Min: 6.1

Soil Map ID: 4

Soil Component Name: Haplumbrepts

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 1.4	Max: 6 Min: 5.1
2	14 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 1.4	Max: 6 Min: 5.1

Soil Map ID: 5

Soil Component Name: Urban land

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

No Layer Information available.

Soil Map ID: 6

Soil Component Name: Multnomah

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	7 inches	38 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6
3	38 inches	59 inches	very gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 141 Min: 42	Max: 6.5 Min: 6.1

Soil Map ID: 7

Soil Component Name: Wollent

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	9 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 8

Soil Component Name: Quatama

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	14 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6
3	33 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 9

Soil Component Name: Dabney

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 5.5 Min: 5.1
2	14 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 5.6

Soil Map ID: 10

Soil Component Name: Quafeno

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
3	35 inches	64 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
4	64 inches	75 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	USGS40000993828	1/4 - 1/2 Mile WNW
B4	USGS40000993770	1/2 - 1 Mile SW
C7	USGS40000993774	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	OR4194014	1/8 - 1/4 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

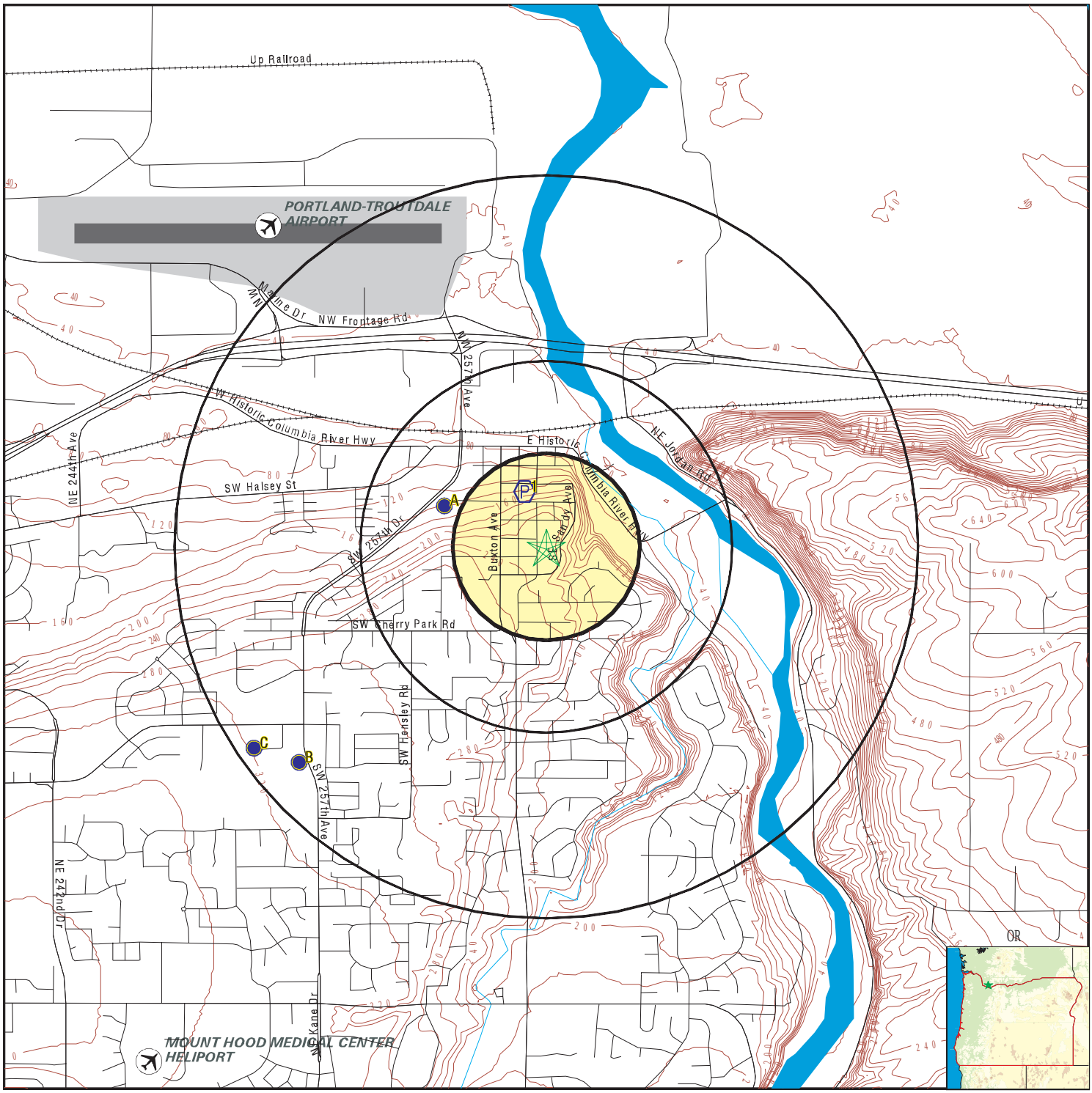
MAP ID	WELL ID	LOCATION FROM TP

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	ORW500000003686	1/4 - 1/2 Mile WNW
B5	ORW500000014243	1/2 - 1 Mile SW
C6	ORW500000003693	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 4560264.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

SITE NAME:	Troutdale Elementary School	CLIENT:	GeoDesign Inc.
ADDRESS:	648 SE Harlow Avenue Troutdale OR 97060	CONTACT:	Jeremy Zimber
		INQUIRY #:	4560264.2s
LAT/LONG:	45.536856 / 122.385836	DATE:	March 10, 2016 8:55 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NNW
1/8 - 1/4 Mile
Lower | **FRDS PWS** | **OR4194014**

Epa region:	10	State:	OR
Pwsid:	OR4194014		
Pwsname:	USFS WYETH CG		
City served:	Not Reported	State served:	OR
Zip served:	Not Reported	Fips county:	41027
Status:	Closed	Pop srvd:	60
Pwssvcconn:	7	Source:	Groundwater
Pws type:	TNCWS	Owner:	Fed_Govt
Contact:	LIRA, EDAN		
Contactor gname:	LIRA, EDAN		
Contact phone:	541-490-2974	Contact address1:	902 WASCO SUITE 200
Contact address2:	Not Reported	Contact city:	HOOD RIVER
Contact state:	OR	Contact zip:	97031
Activity code:	I		

Location Information:

Name:	USFS WYETH CG		
Pwstypcd:	TNCWS	Primsrccd:	GW
Popserved:	60		
Add1:	902 WASCO SUITE 200		
Add2:	Not Reported		
City:	HOOD RIVER	State:	OR
Zip:	97031	Phone:	541-490-2974
Cityserv:	Not Reported	Cntyserv:	Hood River
Stateserv:	OR	Zipserv:	Not Reported

Enforcement Information:

Violation id:	883599	Orig cd:	S
Enf fy:	2001	Enf act date:	11/27/2000
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	78598	Orig cd:	S
Enf fy:	2001	Enf act date:	09/14/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	735396	Orig cd:	S
Enf fy:	2002	Enf act date:	08/06/2002
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	71799	Orig cd:	S
Enf fy:	2001	Enf act date:	09/14/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	615601	Orig cd:	S
Enf fy:	2002	Enf act date:	08/06/2002
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	492500	Orig cd:	S
Enf fy:	2001	Enf act date:	09/14/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3481709	Orig cd:	S
Enf fy:	2010	Enf act date:	04/29/2010
Enf act detail:	St Public Notif received	Enf act cat:	Informal

Enforcement Information:

Violation id:	3481709	Orig cd:	S
Enf fy:	2011	Enf act date:	07/08/2011
Enf act detail:	State No Longer Subject to Rule	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3481609	Orig cd:	S
Enf fy:	2011	Enf act date:	07/08/2011
Enf act detail:	State No Longer Subject to Rule	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3481408	Orig cd:	S
Enf fy:	2008	Enf act date:	07/04/2008
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3481108	Orig cd:	S
Enf fy:	2008	Enf act date:	06/05/2008
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3481007	Orig cd:	S
Enf fy:	2007	Enf act date:	08/08/2007
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3480807	Orig cd:	S
Enf fy:	2007	Enf act date:	04/05/2007
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3480104	Orig cd:	S
Enf fy:	2005	Enf act date:	10/08/2004
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3480104	Orig cd:	S
Enf fy:	2005	Enf act date:	10/04/2004
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3480004	Orig cd:	S
Enf fy:	2004	Enf act date:	06/07/2004
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3479904	Orig cd:	S
Enf fy:	2004	Enf act date:	06/07/2004
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	3479493	Orig cd:	S
Enf fy:	2001	Enf act date:	09/14/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	337400	Orig cd:	S
Enf fy:	2001	Enf act date:	07/13/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	2204692	Orig cd:	S
Enf fy:	2001	Enf act date:	09/14/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	145397	Orig cd:	S
Enf fy:	2001	Enf act date:	09/14/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	102396	Orig cd:	S
Enf fy:	2001	Enf act date:	09/14/2001
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Violations Information:

Violoation id:	615601	Orig cd:	S
State:	OR	Viol fy:	2001
Contamcd:	1040		
Contamnm:	Nitrate		
Viol code:	03		
Viol name:	Monitoring, Regular		
Rule code:	331		
Rule name:	Nitrates		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	01/01/2001
Cmpedt:	12/31/2001		

Violations Information:

Violoation id:	492500	Orig cd:	S
State:	OR	Viol fy:	2000
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	24		
Viol name:	Monitoring, Routine Minor (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported

State mcl:	Not Reported	Cmpbdt:	07/01/2000
Cmpedt:	09/30/2000		

Violations Information:

Violoation id:	3481709	Orig cd:	S
State:	OR	Viol fy:	2008
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	07/01/2008
Cmpedt:	09/30/2008		

Violations Information:

Violoation id:	3481609	Orig cd:	S
State:	OR	Viol fy:	2008
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	09/01/2008
Cmpedt:	09/30/2008		

Violations Information:

Violoation id:	3481408	Orig cd:	S
State:	OR	Viol fy:	2008
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	08/01/2008
Cmpedt:	08/31/2008		

Violations Information:

Violoation id:	3481108	Orig cd:	S
State:	OR	Viol fy:	2007
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	07/01/2007
Cmpedt:	09/30/2007		

Violations Information:

Violoation id:	3481007	Orig cd:	S
State:	OR	Viol fy:	2007
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	04/01/2007
Cmpedt:	06/30/2007		

Violations Information:

Violoation id:	3480807	Orig cd:	S
State:	OR	Viol fy:	2007
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	05/01/2007
Cmpedt:	05/31/2007		

Violations Information:

Violoation id:	3480104	Orig cd:	S
State:	OR	Viol fy:	2003
Contamcd:	1040		
Contamnm:	Nitrate		
Viol code:	03		
Viol name:	Monitoring, Regular		
Rule code:	331		
Rule name:	Nitrates		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	01/01/2003
Cmpedt:	12/31/2003		

Violations Information:

Violoation id:	3480004	Orig cd:	S
State:	OR	Viol fy:	2003
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	23		
Viol name:	Monitoring, Routine Major (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	10/01/2003
Cmpedt:	10/31/2003		

Violations Information:

Violoation id:	3479904	Orig cd:	S
State:	OR	Viol fy:	2003
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	25		
Viol name:	Monitoring, Repeat Major (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported

State mcl:	Not Reported	Cmpbdt:	07/01/2003
Cmpedt:	09/30/2003		

Violations Information:

Violoation id:	337400	Orig cd:	S
State:	OR	Viol fy:	2000
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	22		
Viol name:	MCL, Monthly (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	04/01/2000
Cmpedt:	06/30/2000		

PWS ID:	OR4194014		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	USFS WYETH CAMPGROUND TROUTDALE, OR 97060		

Addressee / Facility:	Not Reported		
Facility Latitude:	45 32 21	Facility Longitude:	122 23 09
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	00000060

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID:	9334794	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	07/01/93	Vio. end Date:	09/30/93	Vio. Period:	003 Months
Num required Samples:	Not Reported	Number of Samples Taken:		Not Reported	
Analysis Result:	Not Reported	Maximum Contaminant Level:		Not Reported	
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Routine Minor (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	Not Reported				

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Vioid:	337400	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	4/1/2000 0:00:00		
Complperen:	6/30/2000 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Vioid:	3479904	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Repeat Major (TCR)		
Complperbe:	7/1/2003 0:00:00		
Complperen:	9/30/2003 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Violid:	3480004	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	10/1/2003 0:00:00		
Complperen:	10/31/2003 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Violid:	3480807	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	5/1/2007 0:00:00		
Complperen:	5/31/2007 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Violid:	3481007	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	4/1/2007 0:00:00		
Complperen:	6/30/2007 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Violid:	3481108	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	7/1/2007 0:00:00		
Complperen:	9/30/2007 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Violid:	3481408	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	8/1/2008 0:00:00		
Complperen:	8/31/2008 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Violid:	3481609	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	9/1/2008 0:00:00		
Complperen:	9/30/2008 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Vioid:	3481709	Contaminant:	COLIFORM (TCR)
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	7/1/2008 0:00:00		
Complperen:	9/30/2008 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Vioid:	492500	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Minor (TCR)		
Complperbe:	7/1/2000 0:00:00		
Complperen:	9/30/2000 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	OR4194014
Pwsname:	USFS WYETH CG		
Retpopsrvd:	60	Pwstypecod:	NC
Vioid:	615601	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2001 0:00:00		
Complperen:	12/31/2001 0:00:00	Enfdate:	8/6/2002 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

System Name:	USFS WYETH CG		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	4/1/2000 0:00:00 - 6/30/2000 0:00:00		
Violation ID:	337400		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported

System Name:	USFS WYETH CG		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	4/1/2000 0:00:00 - 6/30/2000 0:00:00		
Violation ID:	337400		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00

System Name:	USFS WYETH CG		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2003 0:00:00 - 9/30/2003 0:00:00		
Violation ID:	3479904		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported

System Name:	USFS WYETH CG		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2003 0:00:00 - 9/30/2003 0:00:00		
Violation ID:	3479904		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00

ENFORCEMENT INFORMATION:

System Name:	USFS WYETH CG		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2003 0:00:00 - 10/31/2003 0:00:00		
Violation ID:	3480004		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported
System Name:	USFS WYETH CG		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2003 0:00:00 - 10/31/2003 0:00:00		
Violation ID:	3480004		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	USFS WYETH CG		
Violation Type:	Monitoring, Routine Minor (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2000 0:00:00 - 9/30/2000 0:00:00		
Violation ID:	492500		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	USFS WYETH CG		
Violation Type:	Monitoring, Routine Minor (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2000 0:00:00 - 9/30/2000 0:00:00		
Violation ID:	492500		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported
System Name:	USFS WYETH CG		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	1/1/2001 0:00:00 - 12/31/2001 0:00:00		
Violation ID:	615601		
Enforcement Date:	8/6/2002 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	USFS WYETH CG		
Violation Type:	3		
Contaminant:	NITRATE		
Compliance Period:	01/01/01 - 12/31/01		
Violation ID:	615601		
Enforcement Date:	08/06/02	Enf. Action:	State Compliance Achieved
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1995-10-01 - 1995-12-31		
Violation ID:	9601023		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-10-01 - 1998-12-31		
Violation ID:	99000717		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	USFS WYETH CAMPGROUND		
Violation Type:	Monitoring, Regular		
Contaminant:	NITRATE		
Compliance Period:	1999-01-01 - 1999-12-31		
Violation ID:	9908835		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

CONTACT INFORMATION:

Name:	USFS WYETH CG	Population:	60
Contact:	LIRA, EDAN	Phone:	Not Reported
Address:	902 WASCO SUITE 200		
Address 2:	HOOD RIVER		
	OR, 97 541-3		

A2
WNW **OR WELLS** **ORW500000003686**
1/4 - 1/2 Mile
Lower

Fid:	3685	Objectid:	3701
Logid:	MULT 1340	Lstupdate:	01/01/1990
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	1000	Sourceorg:	OWRD
Sourceowrd:	USGS WILLGW	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	135		
Latitude:	45.5384507911		
Longitude:	-122.391479745		
Site id:	ORW500000003686		

A3
WNW **FED USGS** **USGS40000993828**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453219122232501		
Monloc name:	01N/03E-25CBC1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5384529
Longitude:	-122.39148	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	135.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19800401	Welldepth:	571
Welldepth units:	ft	Wellholedepth:	573
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-03-28	115.5		1988-04-06	118.3	
1987-03-10	116.3		1980-07-30	118	

B4
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000993770**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453143122235401		
Monloc name:	01N/03E-35ACAD1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5284531
Longitude:	-122.3995355	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	312.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19781227	Welldepth:	550
Welldepth units:	ft	Wellholedepth:	615
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-03-28	292.1		1988-04-06	293.8	
1987-03-11	292.9		1979-04-02	288	

B5
SW
1/2 - 1 Mile
Higher

OR WELLS **ORW500000014243**

Fid:	14242	Objectid:	14547
Logid:	MULT 1429	Lstupdate:	04/19/2011
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453143122235401
Welltag:	0		
Sownum:	0	Obswell:	Not Reported
Recwell:	Not Reported	Obsflagall:	Not Reported
Lsdelev:	0		
Latitude:	45.52845308		

Longitude:	-122.3995355
Site id:	ORW500000014243

C6
SW
1/2 - 1 Mile
Higher

OR WELLS **ORW500000003693**

Fid:	3692	Objectid:	3708
Logid:	MULT 1428	Lstupdate:	01/01/1990
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	1000	Sourceorg:	OWRD
Sourceowrd:	USGS WILLGW	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	315		
Latitude:	45.5290105876		
Longitude:	-122.402035333		
Site id:	ORW500000003693		

C7
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000993774**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453145122240301		
Monloc name:	01N/03E-35AC		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5290086
Longitude:	-122.4020355	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	315.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19770223	Welldepth:	362
Welldepth units:	ft	Wellholedepth:	362
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OR Radon

Radon Test Results

Zipcode	Num Tests	Maximum	Minimum	Average	# > 4 pCi/L
97060	14	3.4	0.1	1.6	0

Federal EPA Radon Zone for MULTNOMAH County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for MULTNOMAH COUNTY, OR

Number of sites tested: 33

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.530 pCi/L	91%	9%	0%
Basement	2.630 pCi/L	57%	43%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data
Source: Oregon Geospatial Enterprise Office
Telephone: 503-378-2166

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data
Source: Department of Water Resources
Telephone: 503-986-0843

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations
Source: Department of Geology and Mineral Industries
Telephone: 971-673-1540
A listing of oil and gas well locations in the state.

RADON

State Database: OR Radon
Source: Oregon Health Services
Telephone: 503-731-4272
Radon Levels in Orgeon

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Oregon
John A. Kitzhaber, M.D., Governor

Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

October 12, 2001

LARRY CHRISTIAN
REYNOLDS SCHOOL DISTRICT #7
1204 NE 201ST AVE
FAIRVIEW OR 97024

Re: TROUTDALE ELEMENTARY SHOP BUILDING

File No.: 26-01-6529

Dear Larry Christian:

The Department of Environmental Quality has received a report and PBS Environmental certification concerning the heating oil underground storage tank (UST) assessment and/or cleanup conducted at 648 SE HARLOW ST, in TROUTDALE, Oregon.

PBS Environmental was licensed to provide heating oil tank services and has certified that the cleanup has met the Department's requirements. The Department has registered this report and certification and closed its file on the project.

The decision to register the report and certification and to close the Department's file will no longer apply if new or undisclosed facts show that the project does not comply with the rules governing heating oil tank cleanups.

We recommend that a copy of all information associated with the decommissioning be kept with the permanent property records.

Your efforts to comply with Oregon's environmental rules and regulations to ensure that your heating oil tank has been adequately addressed have been appreciated. Proper decommissioning and cleanup helps ensure protection of the environment from future heating oil tank leaks and ensures that the heating oil does not adversely impact human health or the environment. If you have any questions, please feel free to contact me at (503) 229-5474.

Sincerely,

Rick Silverman for Andree

Andree Pollock, Manager
UST Cleanup and Compliance Section

cc: Contractor

Oregon
Theodore R. Kulongoski, Governor

Department Of Environmental Quality
Northwest Region - East Side Office
1550 NW Eastman Parkway, Suite 290
Gresham, Oregon 97030
(503) 667-8414
Fax: (503) 674-5148

May 10, 2006

EVAN TANNER
411 HARLOW AVE
TROUTDALE OR 97060

Re: EMC Mortgage
File No.: 26-02-5508

Dear Mr. Tanner:

The Department of Environmental Quality (DEQ) has received information from Dana Thompson Tanks and Soil (DTTS) concerning the underground heating oil tank cleanup at 411 Harlow Ave in Troutdale, Oregon. In February 2006, DTTS sent letters notifying the current owners of heating oil tank (HOT) work having been improperly performed by a previously-licensed HOT Service Provider and offering to perform a reassessment and any required rework at no cost to the homeowner.

DEQ received an email from DTTS dated April 7, 2006 noting that they had not received a response from you.

As the property owner, it is your choice whether to allow DTTS to perform verification/rework on your property at no expense to you. However, if you choose to refuse DTTS access to perform HOT cleanup verification on the property 411 Harlow Ave, then DEQ considers DTTS to have performed due diligence and releases them from further obligation.

If you desire to have the HOT cleanup verification/rework performed at no cost to you, please contact Dana Thompson Tanks and Soil at 503-244-7002 by Tuesday, May 23, 2006.

The DEQ appreciates you efforts to comply with Oregon's environmental rules and regulations.

If you have any questions regarding this manner, feel free to contact me at 503-667-8414 x 55025.

Sincerely,

Judy Coffman
HOT Cleanup Project Manager

(jcc:JCC)

cc: Dana Thompson Tanks and Soil
PO Box 82285
Portland OR 97282

APPENDIX C



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

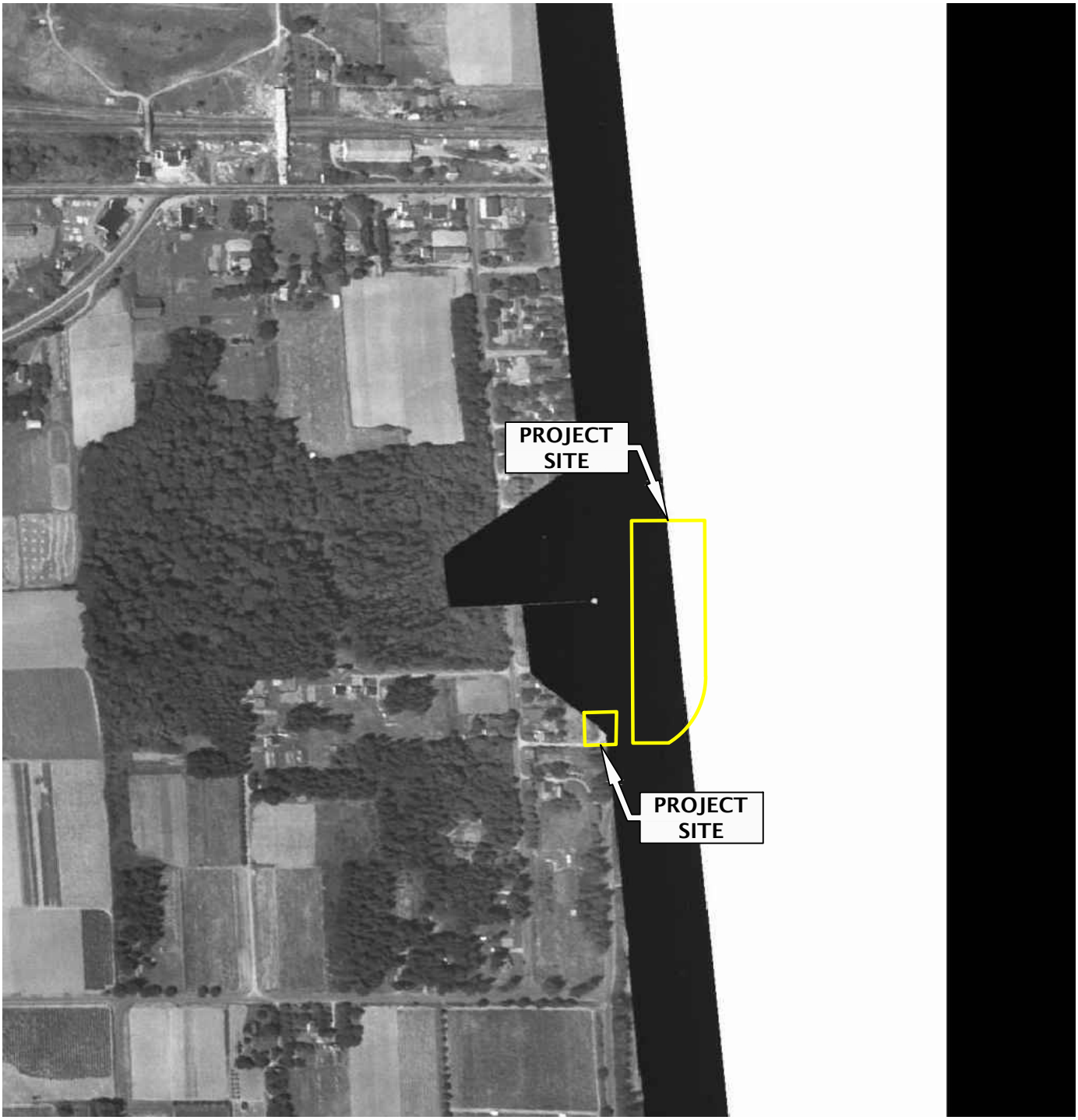
REYNOLDSSD-4-02

APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
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TROUTDALE, OR

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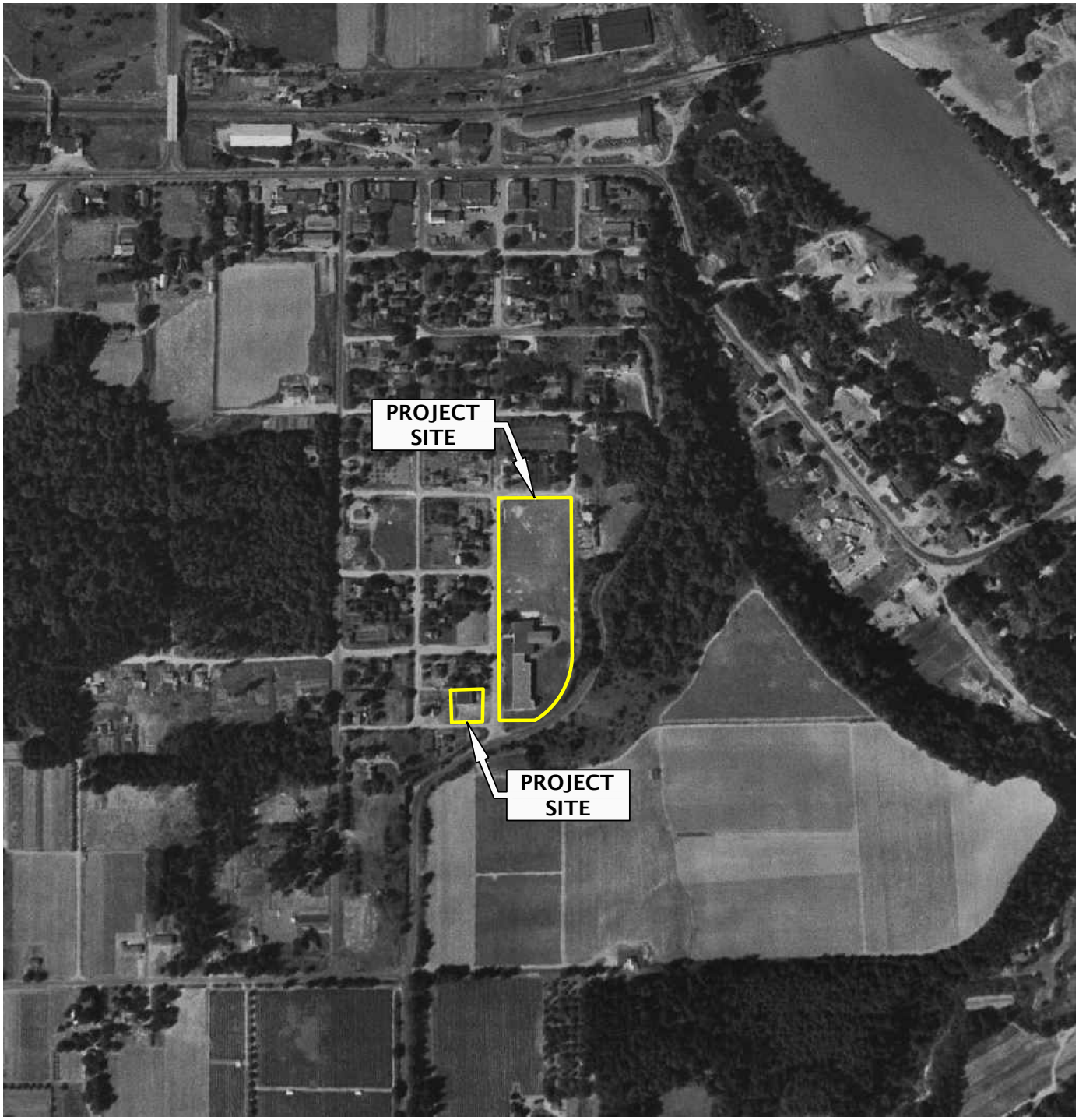
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APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
1948

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TROUTDALE, OR

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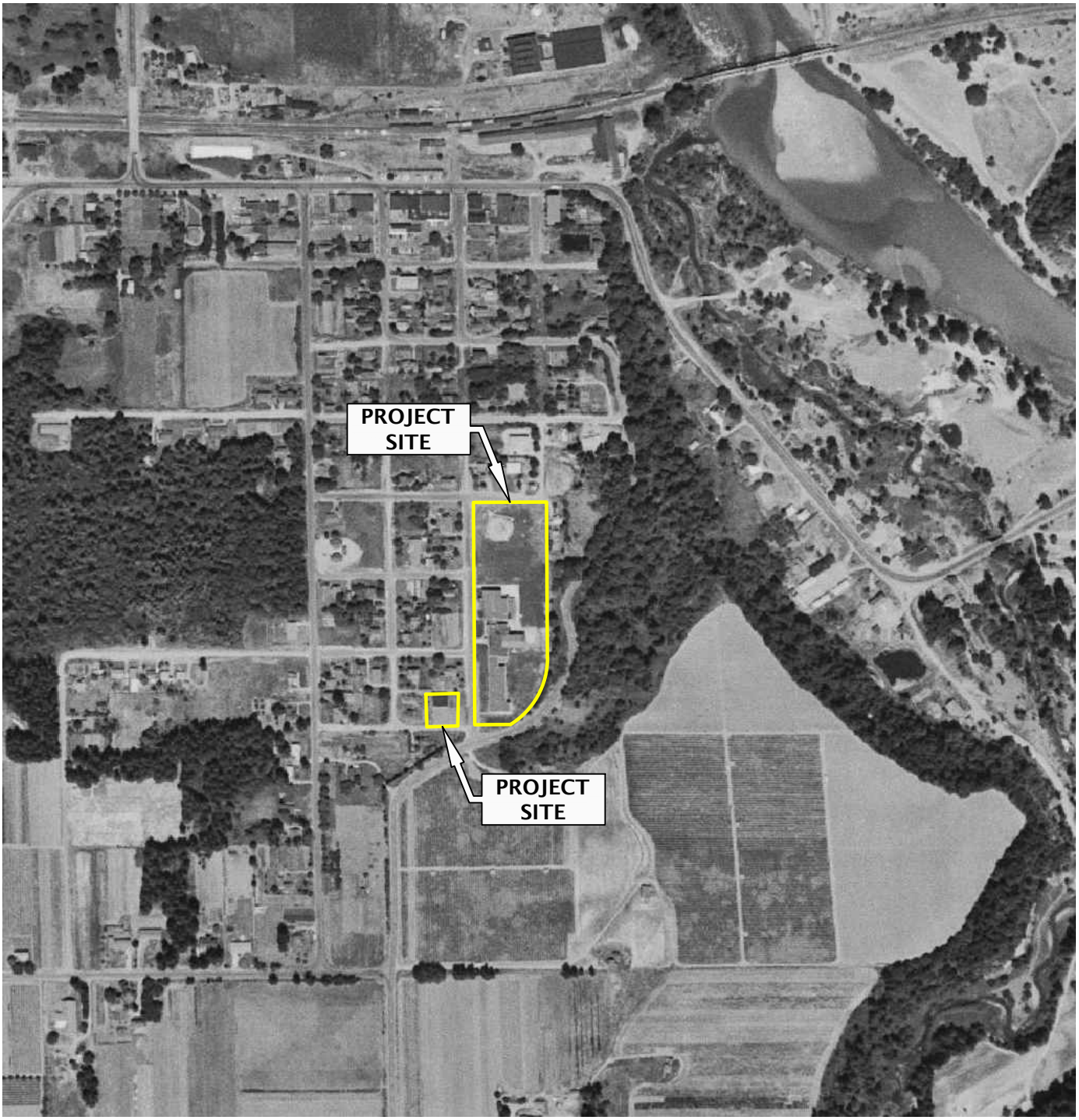
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APRIL 2016

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TROUTDALE, OR

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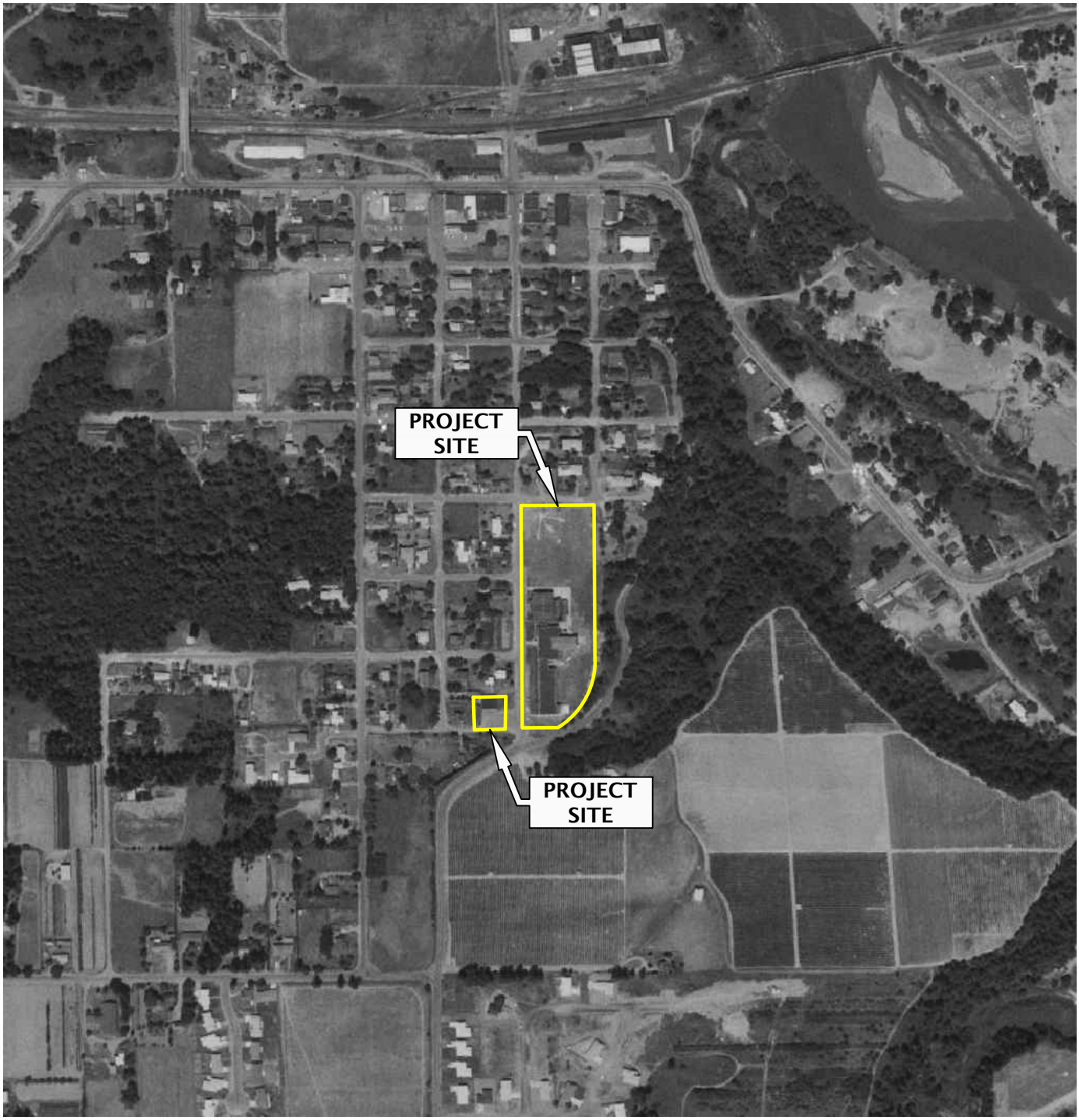
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HISTORICAL AERIAL PHOTOGRAPH
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TROUTDALE, OR

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GEODESIGN INC 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSSD-4-02	**HISTORICAL AERIAL PHOTOGRAPH 1970**
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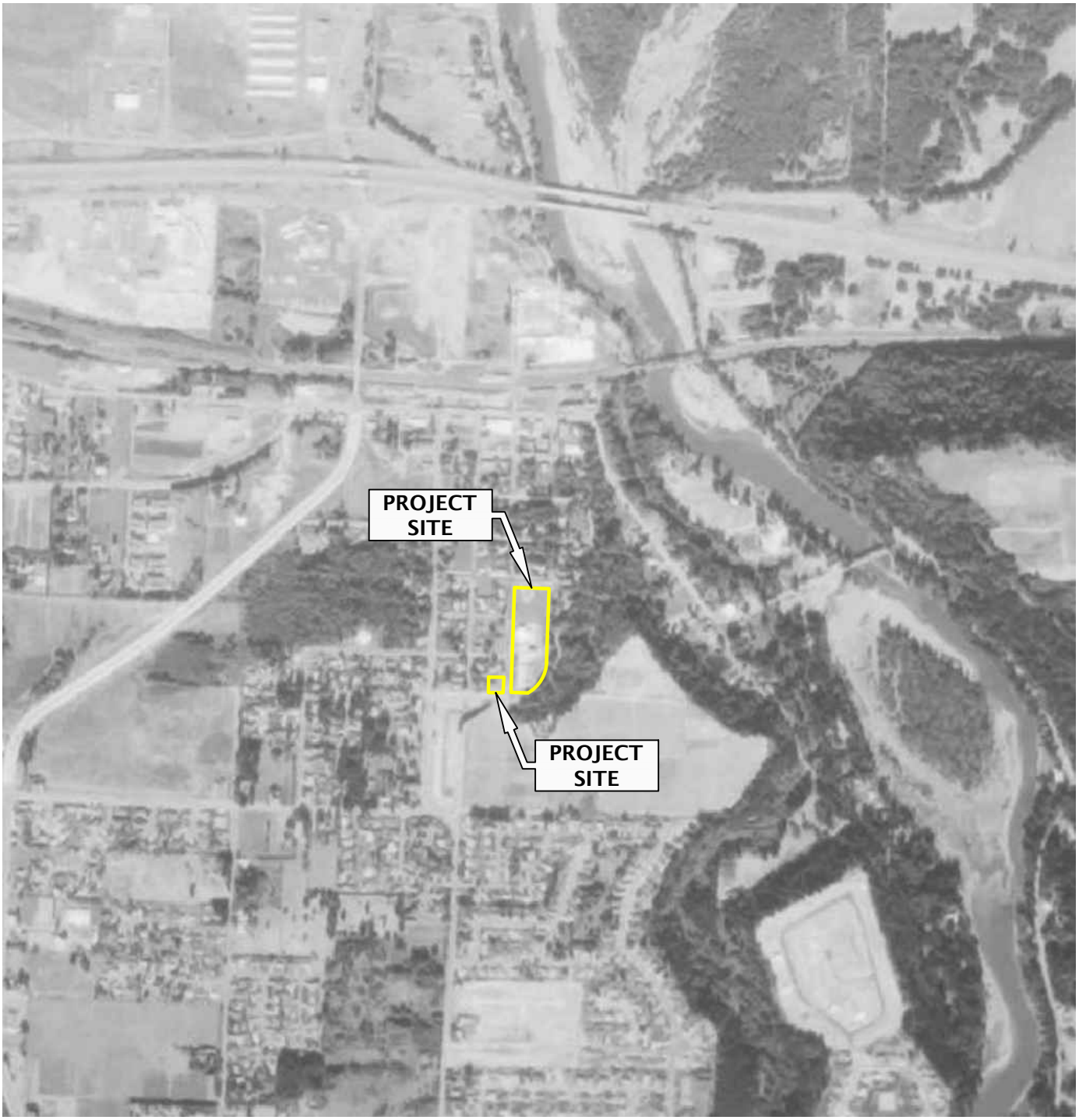
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REYNOLDSSD-4-02	**HISTORICAL AERIAL PHOTOGRAPH 1981**
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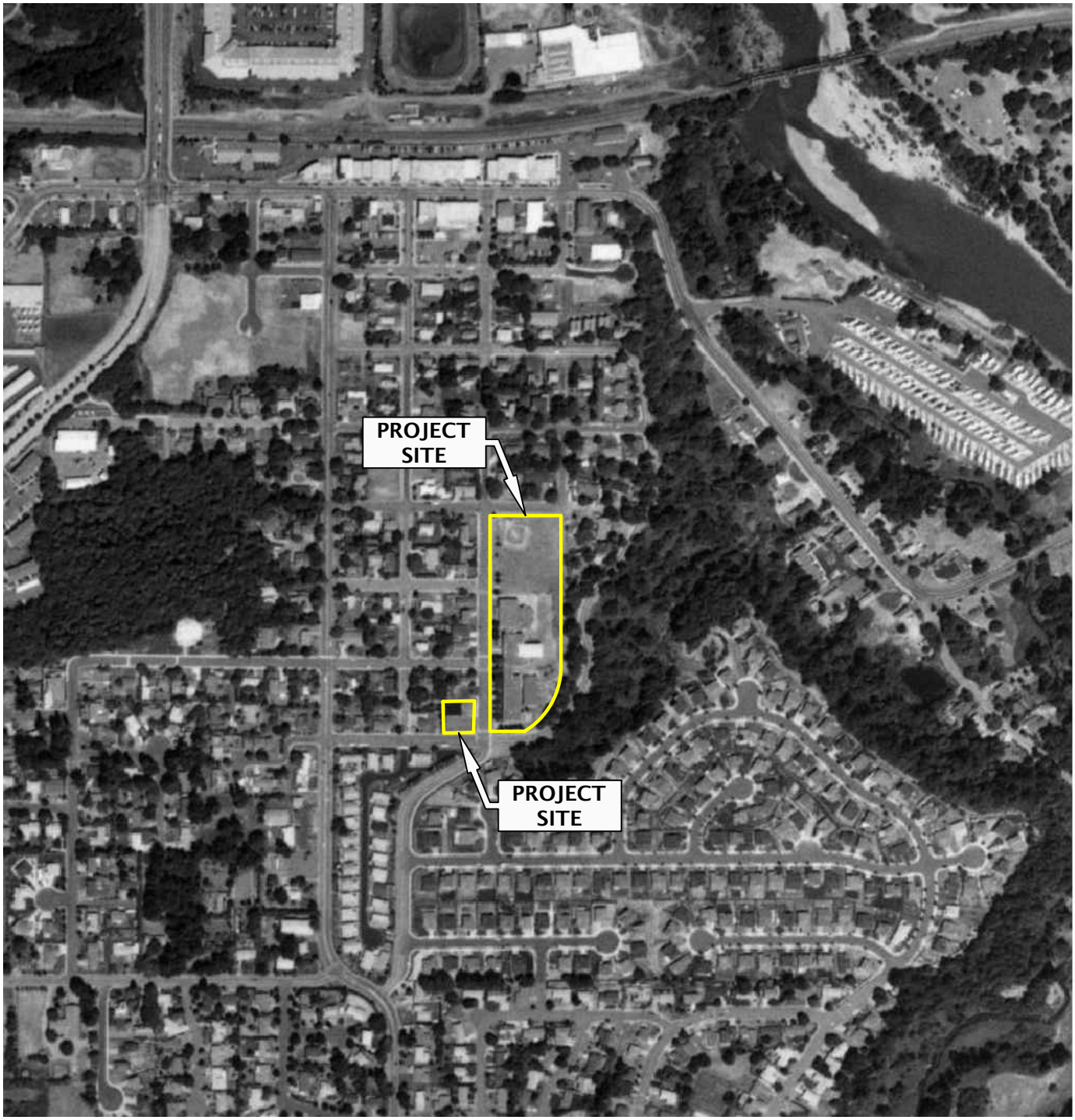
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HISTORICAL AERIAL PHOTOGRAPH
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TROUTDALE, OR

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HISTORICAL AERIAL PHOTOGRAPH
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TROUTDALE, OR

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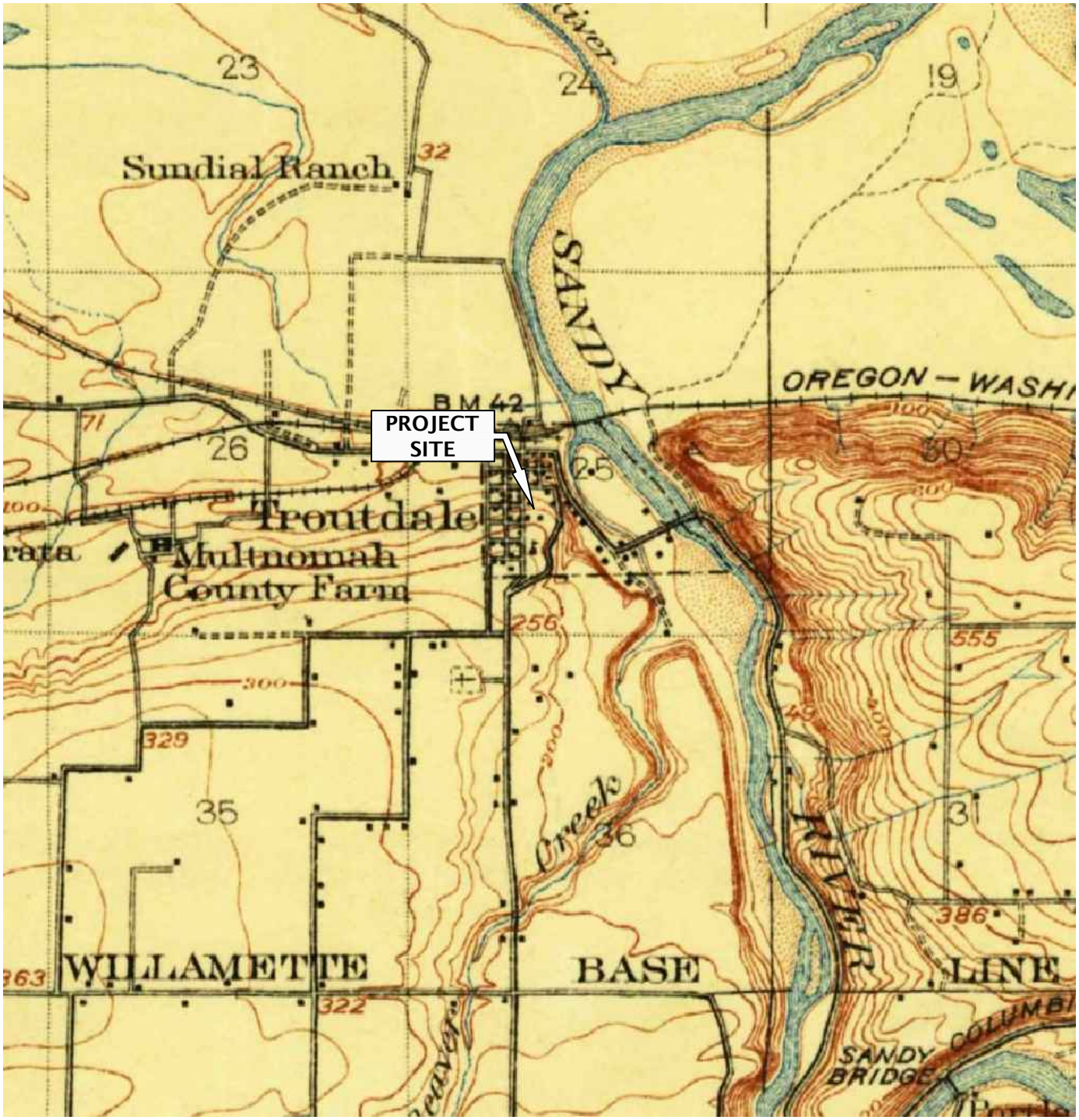
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APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH 2012

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TROUTDALE, OR

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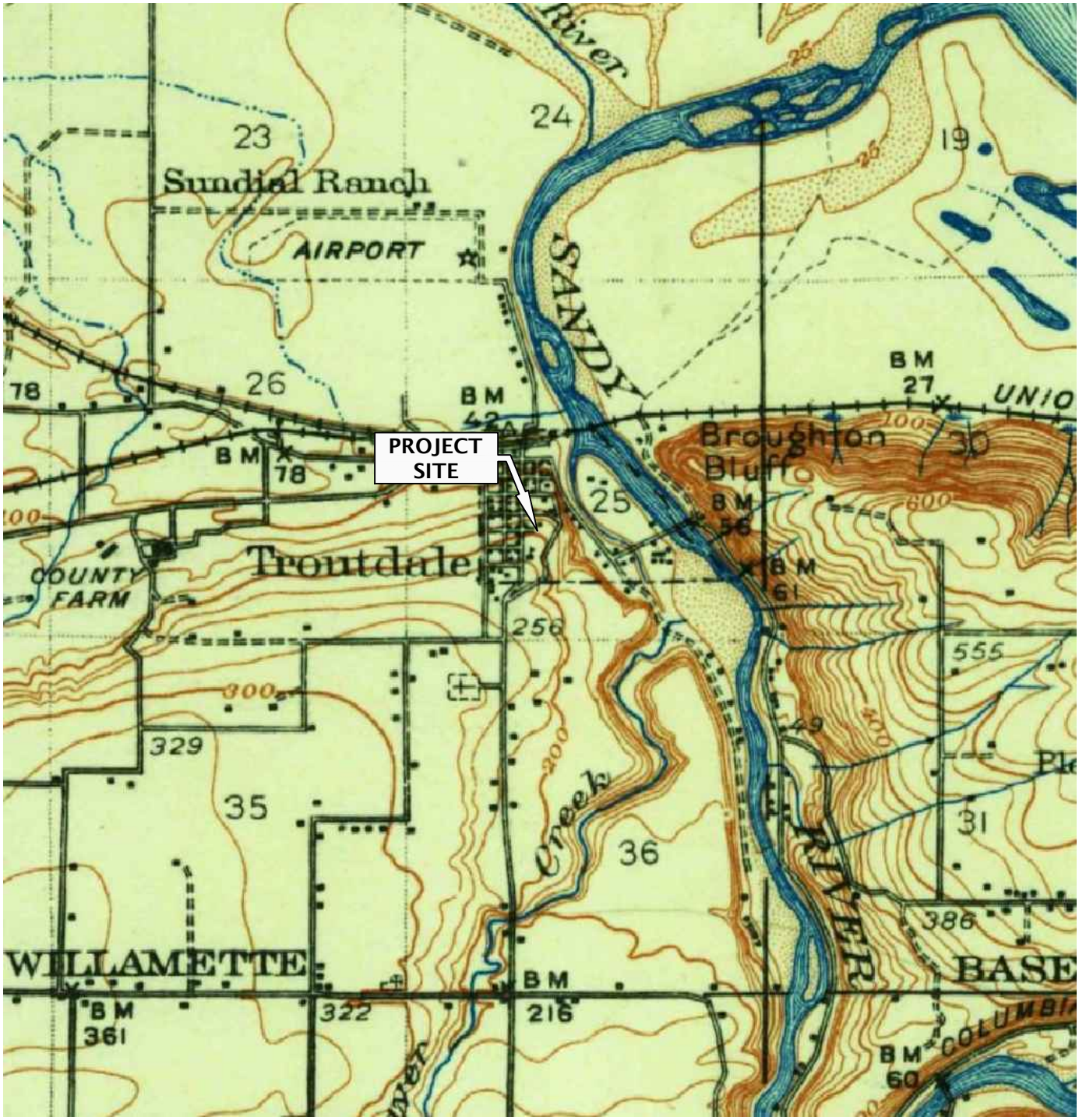


PROJECT SITE LOCATION IS APPROXIMATE.

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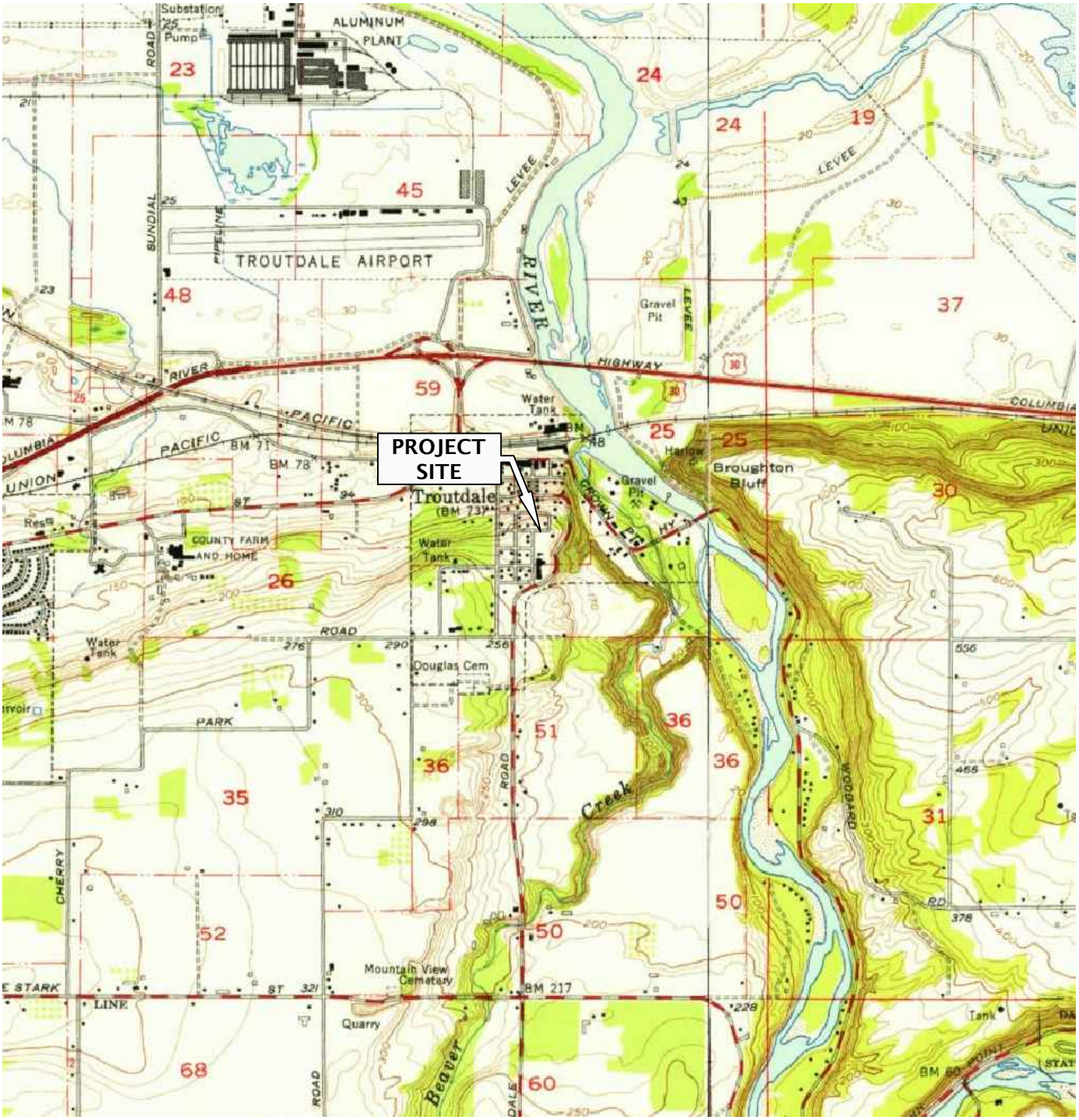
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REYNOLDSSD-4-02	**HISTORICAL TOPOGRAPHIC MAP 1941**
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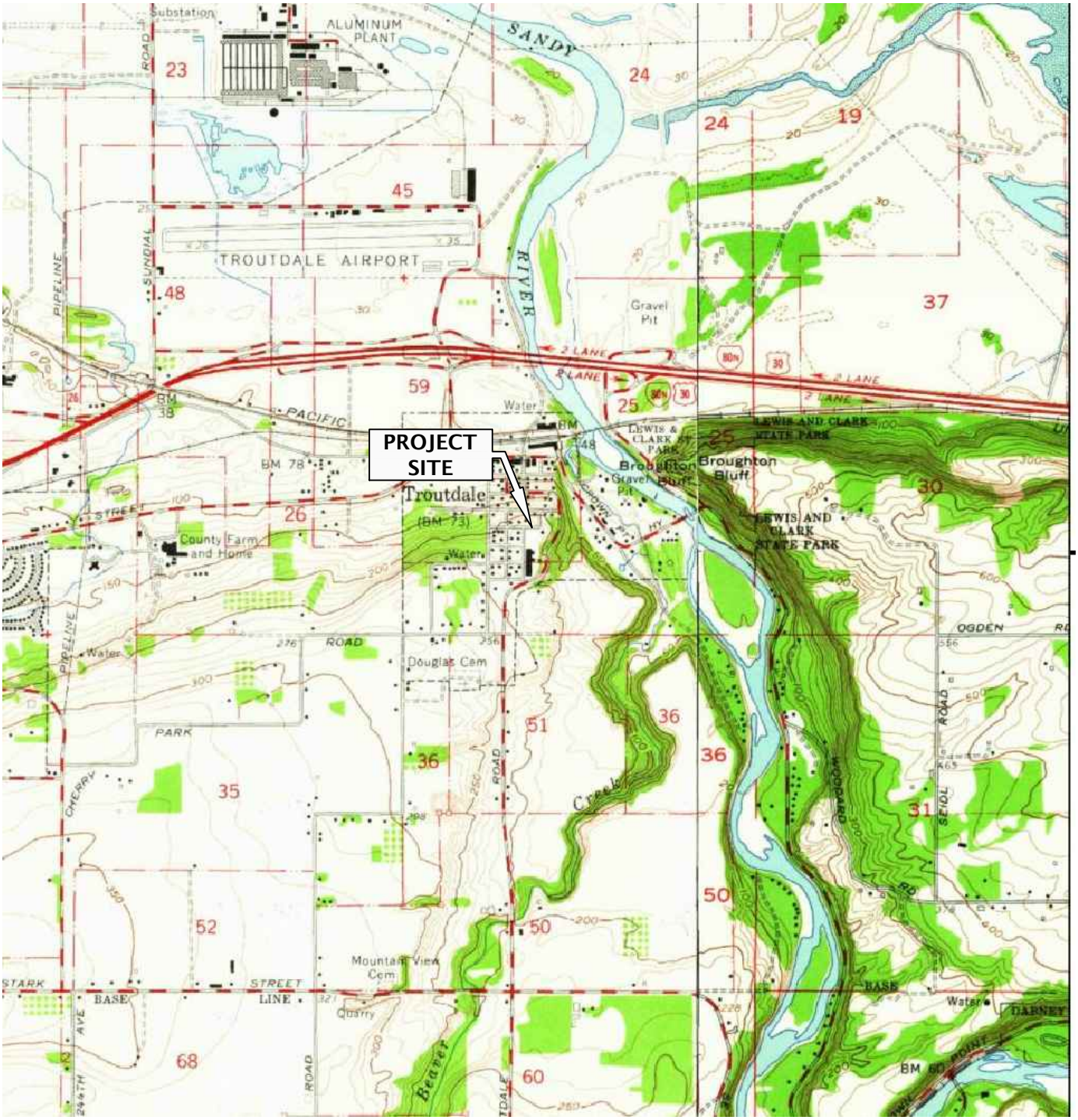


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GeoDesign Inc 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSSD-4-02	**HISTORICAL TOPOGRAPHIC MAP** **1954**
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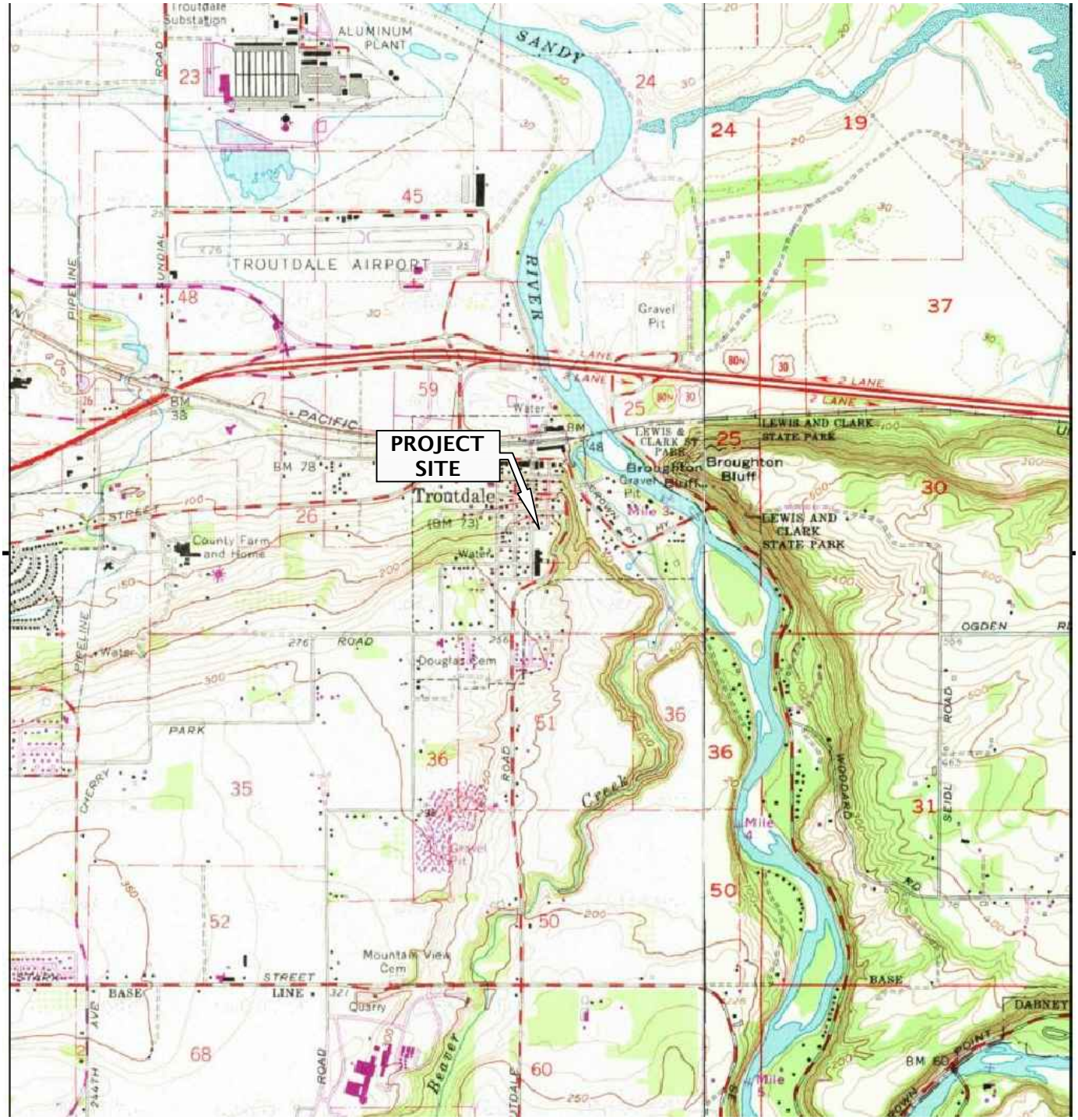


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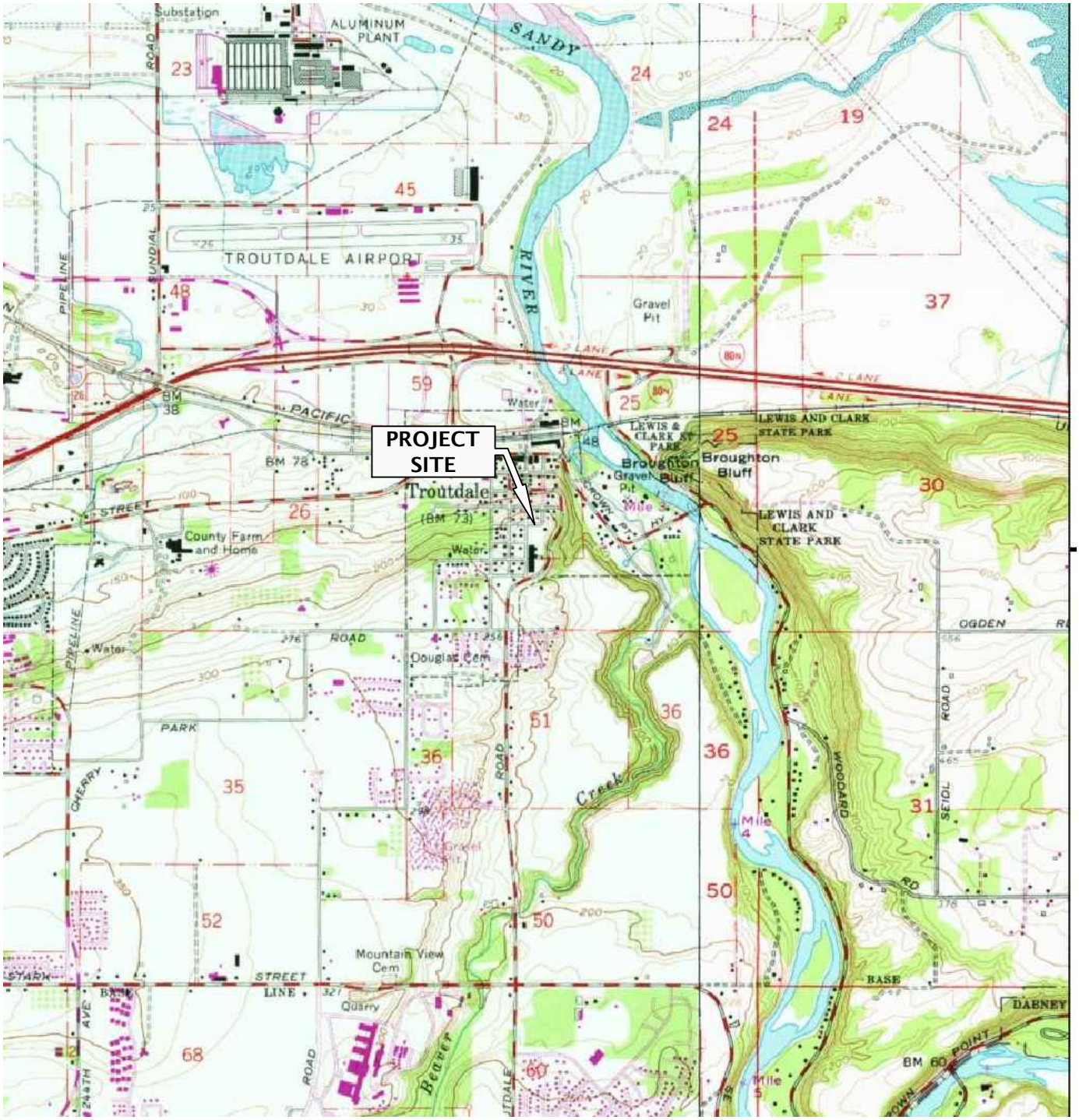
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GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-4-02	**HISTORICAL TOPOGRAPHIC MAP 1970**
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15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
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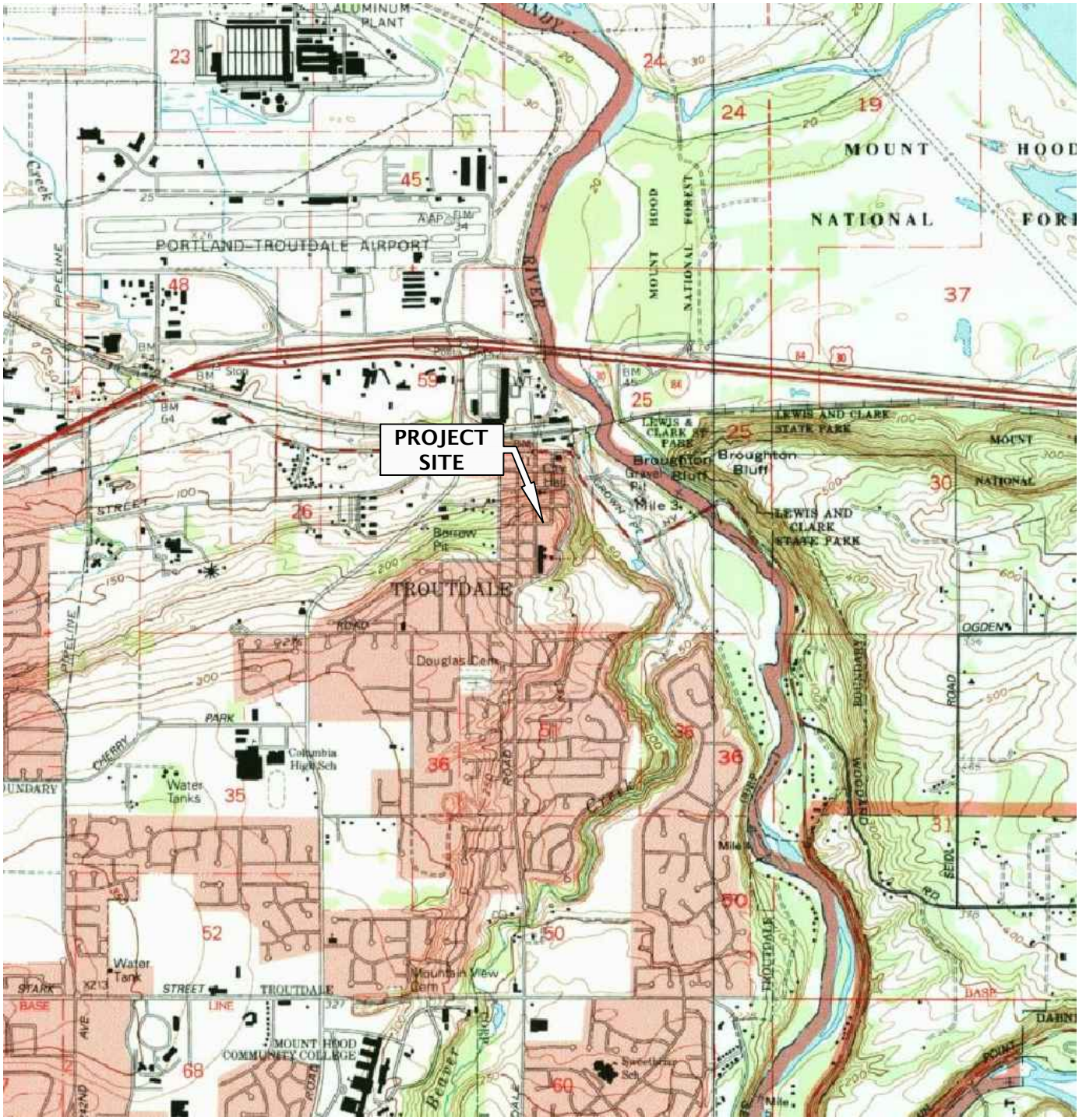
REYNOLDSSD-4-02

APRIL 2016

HISTORICAL TOPOGRAPHIC MAP
1975

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

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PROJECT SITE LOCATION IS APPROXIMATE.

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Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

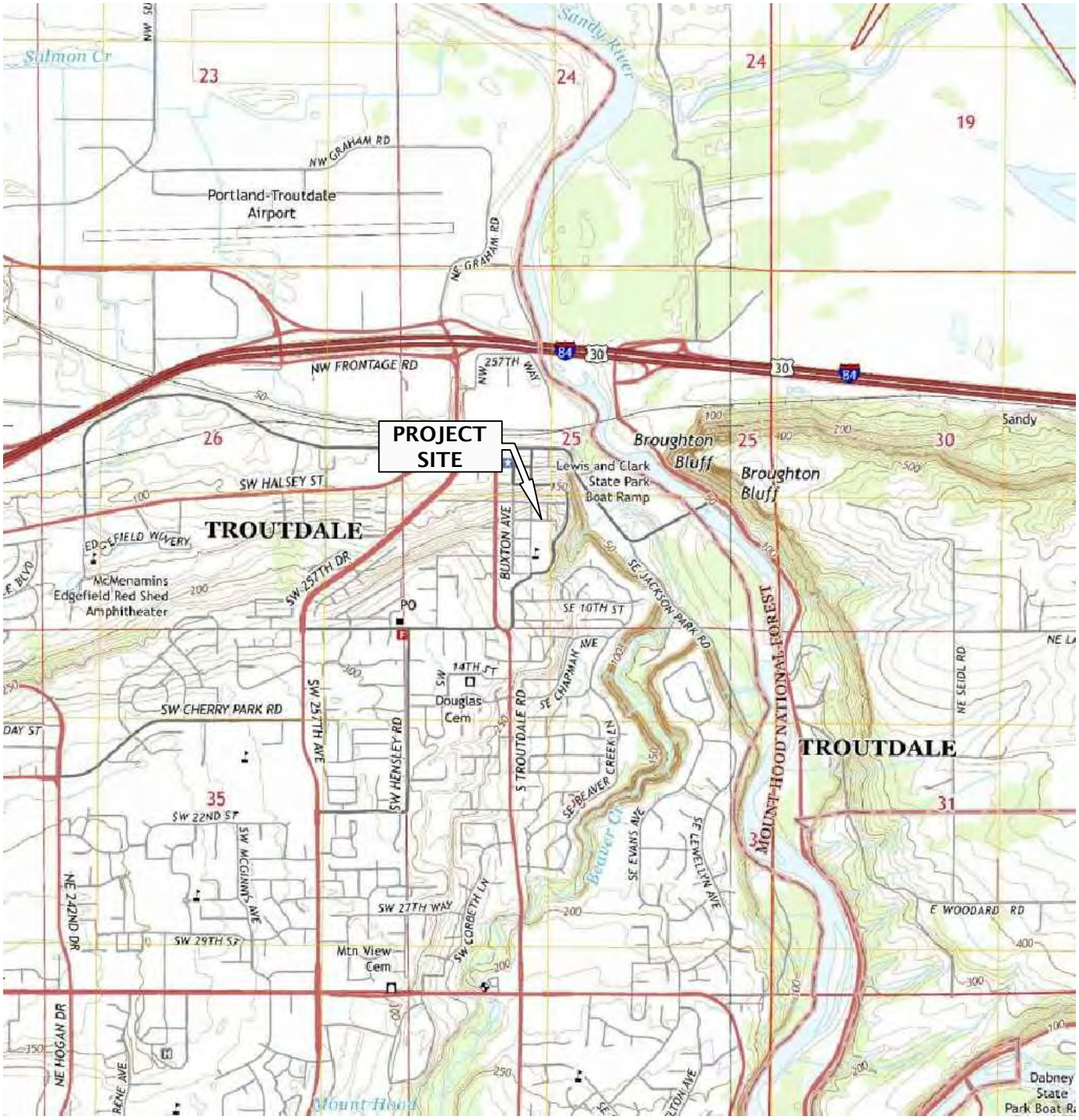
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APRIL 2016

HISTORICAL TOPOGRAPHIC MAP
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TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

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PROJECT SITE LOCATION IS APPROXIMATE.

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GEODESIGN INC 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSSD-4-02	**HISTORICAL TOPOGRAPHIC MAP 2013**
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Troutdale Elementary School
648 SE Harlow Avenue
Troutdale, OR 97060

Inquiry Number: 4560264.5
March 09, 2016

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

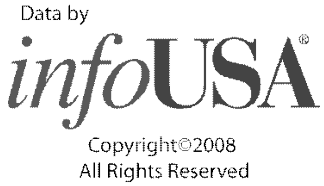
Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1924 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	X	X	X	-
2003	Cole Information Services	X	X	X	-
1998	Cole Information Services	-	-	-	-
1993	Cole Information Services	-	-	-	-
1988	Cole Information Services	-	-	-	-
1985	R. L. Polk and Co. Publishers	X	X	X	X
1981	R.L. Polk Co. Publishers	-	-	-	-
1980	R.L. Polk Co. Publishers	X	X	X	X
1977	R.L. Polk Co. Publishers	X	X	X	X
1975	R. L. Polk and Co. Publishers	-	-	-	-
1970	R.L.Polk Co.	X	X	X	X
1967	R.L.Polk Co.	X	X	X	X
1965	R.L.Polk Co.	-	-	-	-
1960	R. L. Polk Co. Publishers	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1955	R. L. Polk Co. Publishers	-	-	-	-
1950	R. L. Polk Co. Publisher	-	-	-	-
1946	The Pacific Telephone and Telegraph Company	-	X	X	-
1940	R.L. Polk Co., Inc.	-	-	-	-
1935	R.L. Polk Co., Inc.	-	-	-	-
1930	R.L. Polk Co., Inc.	-	-	-	-
1924	R.L. Polk Co., Inc.	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
408 SE 5th Street	Client Entered	X
433 SE 5th Street	Client Entered	X
349 SE 5th Street	Client Entered	
432 SE Harlow Avenue	Client Entered	
244 SE 5th Street	Client Entered	X
533 SE Harlow Avenue	Client Entered	
545 SE Harlow Avenue	Client Entered	
603 SE Harlow Avenue	Client Entered	
625 SE Harlow Avenue	Client Entered	
647 SE Harlow Avenue	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

648 SE Harlow Avenue
Troutdale, OR 97060

FINDINGS DETAIL

Target Property research detail.

HARLOW ST SE

648 HARLOW ST SE

Year	Uses	Source	
1985	Troutdale Grade School	R. L. Polk and Co. Publishers	Image pg. A1
1980	Troutdale Grade School	R.L. Polk Co. Publishers	Image pg. A11
1977	Troutdale Grade S	R.L. Polk Co. Publishers	Image pg. A22
1970	Troutdale Grade School	R.L.Polk Co.	Image pg. A31
1967	LIONS INTERNATIONAL TROUTDALE	R.L.Polk Co.	Image pg. A41
	PARKS JOHN H REV	R.L.Polk Co.	Image pg. A41
	TROUTDALE GRADE SCHOOL	R.L.Polk Co.	Image pg. A40

SE HARLOW AVE

648 SE HARLOW AVE

Year	Uses	Source
2008	REYNOLDS SCHOOL DISTRICT 7	Cole Information Services
	TROUTDALE ELEMENTARY SCHOOL	Cole Information Services
2003	YMCA CHILDCARE DIV	Cole Information Services

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

4TH ST SE

206 4TH ST SE

Year	Uses	Source	
1985	Kogle Phyllis J Mrs	R. L. Polk and Co. Publishers	Image pg. A2
1980	Kogle Phyllis J Mrs	R.L. Polk Co. Publishers	Image pg. A12
1977	Gunter Donald G	R.L. Polk Co. Publishers	Image pg. A23
1970	Parker Arnold L	R.L.Polk Co.	Image pg. A32
1967	PARKER ARNOLD L	R.L.Polk Co.	Image pg. A42

247 4TH ST SE

Year	Uses	Source	
1985	Edgley Vera V Mrs	R. L. Polk and Co. Publishers	Image pg. A2
1980	Edgley Vera V Mrs	R.L. Polk Co. Publishers	Image pg. A12
1977	Edgley Vera V Mrs	R.L. Polk Co. Publishers	Image pg. A23
1970	Edgley Vera V Mrs	R.L.Polk Co.	Image pg. A32
1967	EDGLEY VERA V MRS	R.L.Polk Co.	Image pg. A42
	HARLOW ST INTERSLCTS	R.L.Polk Co.	Image pg. A42

346 4TH ST SE

Year	Uses	Source	
1985	Walls Patricia M	R. L. Polk and Co. Publishers	Image pg. A2
1980	Walls Peter S	R.L. Polk Co. Publishers	Image pg. A12
1977	Walls Peter	R.L. Polk Co. Publishers	Image pg. A23
1970	ONeal John L	R.L.Polk Co.	Image pg. A32
1967	ONEAL JOHN L	R.L.Polk Co.	Image pg. A42

385 4TH ST SE

Year	Uses	Source	
1985	Alexander James R Rev	R. L. Polk and Co. Publishers	Image pg. A2
1980	Alexander James R Rev	R.L. Polk Co. Publishers	Image pg. A12
1977	Alexander James R Rev	R.L. Polk Co. Publishers	Image pg. A23

434 4TH ST SE

Year	Uses	Source	
1985	Breshearf Ronald L	R. L. Polk and Co. Publishers	Image pg. A2

Year	Uses	Source	
1980	Murphy Edw J	R.L. Polk Co. Publishers	Image pg. A12
1977	Lampert Donald J	R.L. Polk Co. Publishers	Image pg. A23
1970	Lampert Donald	R.L.Polk Co.	Image pg. A32
1967	BOMAN JAMES A	R.L.Polk Co.	Image pg. A42

435 4TH ST SE

Year	Uses	Source	
1970	Vacant	R.L.Polk Co.	Image pg. A32
1967	VACANT	R.L.Polk Co.	Image pg. A42

5TH ST SE

102 5TH ST SE

Year	Uses	Source	
1985	Moen Eileen R	R. L. Polk and Co. Publishers	Image pg. A3
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A13
1977	Moen Eileen R Mrs	R.L. Polk Co. Publishers	Image pg. A24
1970	Moen Eileen R Mrs	R.L.Polk Co.	Image pg. A33
1967	MOEN EILEEN R MRS 665 25 C	R.L.Polk Co.	Image pg. A43

123 5TH ST SE

Year	Uses	Source	
1985	Young Polly	R. L. Polk and Co. Publishers	Image pg. A3
1980	Henry Harold G	R.L. Polk Co. Publishers	Image pg. A14
	Hartwell Douglas H	R.L. Polk Co. Publishers	Image pg. A13

131 5TH ST SE

Year	Uses	Source	
1985	Bradley Jeff L	R. L. Polk and Co. Publishers	Image pg. A3
1980	Brandon Kent D	R.L. Polk Co. Publishers	Image pg. A14

136 5TH ST SE

Year	Uses	Source	
1985	Shanon Russell	R. L. Polk and Co. Publishers	Image pg. A3
1980	Morgan Dale I	R.L. Polk Co. Publishers	Image pg. A14
1977	No Return	R.L. Polk Co. Publishers	Image pg. A24
1970	Green Thos	R.L.Polk Co.	Image pg. A33
1967	GREEN THOS	R.L.Polk Co.	Image pg. A43

FINDINGS

148 5TH ST SE

Year	Uses	Source	
1985	Bourne Fredk	R. L. Polk and Co. Publishers	Image pg. A3
1980	Bourne Fredk	R.L. Polk Co. Publishers	Image pg. A14
1977	Bourne Fredk	R.L. Polk Co. Publishers	Image pg. A24
1970	Talbott Walter B	R.L.Polk Co.	Image pg. A33
1967	TALBOTT WALTER	R.L.Polk Co.	Image pg. A43

235 5TH ST SE

Year	Uses	Source	
1985	Ferguson Roger	R. L. Polk and Co. Publishers	Image pg. A3
1980	Jackson Walter C	R.L. Polk Co. Publishers	Image pg. A14
1977	Wikowsky Laurence	R.L. Polk Co. Publishers	Image pg. A24
1970	Jackson Walter C	R.L.Polk Co.	Image pg. A33
1967	JACKSON WALTER C a	R.L.Polk Co.	Image pg. A43

244 5TH ST SE

Year	Uses	Source	
1985	Ferguson Bill E	R. L. Polk and Co. Publishers	Image pg. A3
1980	Ferguson Bill E	R.L. Polk Co. Publishers	Image pg. A14
1977	Ferguson Bill	R.L. Polk Co. Publishers	Image pg. A24
1970	Turner Leroy	R.L.Polk Co.	Image pg. A33
1967	TURNER LEROY	R.L.Polk Co.	Image pg. A43

245 5TH ST SE

Year	Uses	Source	
1985	Kramer David	R. L. Polk and Co. Publishers	Image pg. A3
1980	Kramer David	R.L. Polk Co. Publishers	Image pg. A14
1977	Kramer David	R.L. Polk Co. Publishers	Image pg. A24
1970	Temple Thelda Mrs	R.L.Polk Co.	Image pg. A33
1967	TEMPLE THELDA MRS	R.L.Polk Co.	Image pg. A43

365 5TH ST SE

Year	Uses	Source	
1977	Smith S	R.L. Polk Co. Publishers	Image pg. A24
1970	Barrett Charles	R.L.Polk Co.	Image pg. A33

408 5TH ST SE

Year	Uses	Source	
1985	Me Pherren Dorothy Mrs	R. L. Polk and Co. Publishers	Image pg. A3
1980	Me Pherren Lyle F	R.L. Polk Co. Publishers	Image pg. A14

Year	Uses	Source	
1977	Mc Pherren Lyle F	R.L. Polk Co. Publishers	Image pg. A24
1970	Reed Howard F	R.L.Polk Co.	Image pg. A33
1967	VACANT	R.L.Polk Co.	Image pg. A43

431 5TH ST SE

Year	Uses	Source	
1985	Young Richd A	R. L. Polk and Co. Publishers	Image pg. A3
1980	Young Richd	R.L. Polk Co. Publishers	Image pg. A14
1977	Otto Donna J Mrs	R.L. Polk Co. Publishers	Image pg. A24
1970	Otto Allan D	R.L.Polk Co.	Image pg. A33
1967	OTTO ALLAN D a	R.L.Polk Co.	Image pg. A43

432 5TH ST SE

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A3
1970	No Return	R.L.Polk Co.	Image pg. A33

433 5TH ST SE

Year	Uses	Source	
1985	Paine Carroll A	R. L. Polk and Co. Publishers	Image pg. A3
1977	Paine Carroll	R.L. Polk Co. Publishers	Image pg. A24
1970	Barrett Charles Z	R.L.Polk Co.	Image pg. A33
1967	BARRETT CHARLES	R.L.Polk Co.	Image pg. A43

6TH ST SE

131 6TH ST SE

Year	Uses	Source	
1985	Frank Loren P	R. L. Polk and Co. Publishers	Image pg. A4
1980	Frank Loren P	R.L. Polk Co. Publishers	Image pg. A15
1977	Frank Loren P	R.L. Polk Co. Publishers	Image pg. A25
1970	Barclay H F	R.L.Polk Co.	Image pg. A34
1967	BARCLAY H F	R.L.Polk Co.	Image pg. A43

134 6TH ST SE

Year	Uses	Source	
1985	Louderback Larry F	R. L. Polk and Co. Publishers	Image pg. A4
1980	Louderback Larry F	R.L. Polk Co. Publishers	Image pg. A15
1977	Louderbac F Larry F	R.L. Polk Co. Publishers	Image pg. A25
1970	Wilson Gladys Mrs	R.L.Polk Co.	Image pg. A34

Year	Uses	Source	
1967	WILSON LOUIS A	R.L.Polk Co.	Image pg. A43

204 6TH ST SE

Year	Uses	Source	
1985	Watterson David W	R. L. Polk and Co. Publishers	Image pg. A4
1980	Watterson David W	R.L. Polk Co. Publishers	Image pg. A15
1977	Barnes Dayid W	R.L. Polk Co. Publishers	Image pg. A25

209 6TH ST SE

Year	Uses	Source	
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A25

7TH ST SE

145 7TH ST SE

Year	Uses	Source	
1985	Smith Betty Mrs	R. L. Polk and Co. Publishers	Image pg. A5
1980	No Return	R.L. Polk Co. Publishers	Image pg. A16
1977	Lunday Linden	R.L. Polk Co. Publishers	Image pg. A26
1970	Lunday Linden	R.L.Polk Co.	Image pg. A34
1967	LUNDAY LINDEN	R.L.Polk Co.	Image pg. A44

146 7TH ST SE

Year	Uses	Source	
1985	Huff Timothy A	R. L. Polk and Co. Publishers	Image pg. A5
1980	Alexander Lloyd D	R.L. Polk Co. Publishers	Image pg. A16
1977	Alexander Lloyd	R.L. Polk Co. Publishers	Image pg. A26
1970	Alexander Lloyd	R.L.Polk Co.	Image pg. A34
1967	ALEXANDER LLOYD	R.L.Polk Co.	Image pg. A44

207 7TH ST SE

Year	Uses	Source	
1985	Lewis Nora E Mrs	R. L. Polk and Co. Publishers	Image pg. A5
1980	Lewis Nora E Mrs	R.L. Polk Co. Publishers	Image pg. A16
1977	Lewis Nora E Mrs	R.L. Polk Co. Publishers	Image pg. A26
1970	Lewis Wm H	R.L.Polk Co.	Image pg. A34
1967	LEWIS WM H	R.L.Polk Co.	Image pg. A44

221 7TH ST SE

Year	Uses	Source	
1985	Merris Richd	R. L. Polk and Co. Publishers	Image pg. A5

FINDINGS

Year	Uses	Source	
1980	Hoogendam Marion	R.L. Polk Co. Publishers	Image pg. A16
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A26
1970	Reuter Sena	R.L.Polk Co.	Image pg. A34
1967	VAN SLYKE BEVERLY MRS	R.L.Polk Co.	Image pg. A44

242 7TH ST SE

Year	Uses	Source	
1985	Mitchell Melville L	R. L. Polk and Co. Publishers	Image pg. A5
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A16
1977	Mitchell Melville L	R.L. Polk Co. Publishers	Image pg. A26
1970	Mitchell Melville L	R.L.Polk Co.	Image pg. A34
1967	MITCHELL MELVILLE L	R.L.Polk Co.	Image pg. A44

7TH ST SW

102 7TH ST SW

Year	Uses	Source	
1985	Simons Frank T	R. L. Polk and Co. Publishers	Image pg. A5
1980	Simons Frank T	R.L. Polk Co. Publishers	Image pg. A16
1977	Simons Frank T	R.L. Polk Co. Publishers	Image pg. A26
1970	Simons Frank	R.L.Polk Co.	Image pg. A35

8TH ST SE

226 8TH ST SE

Year	Uses	Source	
1970	Vacant	R.L.Polk Co.	Image pg. A35
1967	MURPAY BETTY J MRS	R.L.Polk Co.	Image pg. A44

BUXTON RD

525 BUXTON RD

Year	Uses	Source	
1985	Van Meter Lynette M Mrs	R. L. Polk and Co. Publishers	Image pg. A6
	Flexible Business Systems conslts	R. L. Polk and Co. Publishers	Image pg. A6
	Eddy Ken A	R. L. Polk and Co. Publishers	Image pg. A6
1980	Van Meter Lynette M Mrs	R.L. Polk Co. Publishers	Image pg. A17

FINDINGS

526 BUXTON RD

Year	Uses	Source	
1985	Farr Greg E	R. L. Polk and Co. Publishers	Image pg. A6
1980	Dvteull Edw	R.L. Polk Co. Publishers	Image pg. A17
1977	Horn Robt	R.L. Polk Co. Publishers	Image pg. A27
1970	Van Over Charles M	R.L.Polk Co.	Image pg. A36
1967	VAN OVER CHARLES M	R.L.Polk Co.	Image pg. A45

528 BUXTON RD

Year	Uses	Source	
1985	Ziobron J Y	R. L. Polk and Co. Publishers	Image pg. A6
1980	Mendenhall Judith L Mrs	R.L. Polk Co. Publishers	Image pg. A17
1977	Barker Alice A Mrs	R.L. Polk Co. Publishers	Image pg. A27
1970	Barker Alice A Mrs	R.L.Polk Co.	Image pg. A36
1967	HAMS CHARLES	R.L.Polk Co.	Image pg. A45

529 BUXTON RD

Year	Uses	Source	
1985	Cheney Michl D	R. L. Polk and Co. Publishers	Image pg. A6
1980	Under Constn	R.L. Polk Co. Publishers	Image pg. A17

532 BUXTON RD

Year	Uses	Source	
1985	Blakeman Diane K	R. L. Polk and Co. Publishers	Image pg. A6
1980	Evans David J	R.L. Polk Co. Publishers	Image pg. A17

533 BUXTON RD

Year	Uses	Source	
1985	Dietrich Mike	R. L. Polk and Co. Publishers	Image pg. A6
1980	Dietrich Michi W	R.L. Polk Co. Publishers	Image pg. A17

536 BUXTON RD

Year	Uses	Source	
1985	Vacant	R. L. Polk and Co. Publishers	Image pg. A6
1980	Vik Dan G	R.L. Polk Co. Publishers	Image pg. A17
1977	Ferguson Chester A	R.L. Polk Co. Publishers	Image pg. A27
1970	Me Gilvroy Robt L	R.L.Polk Co.	Image pg. A36
1967	DOOLEY JANET S MRS	R.L.Polk Co.	Image pg. A45

FINDINGS

537 BUXTON RD

Year	Uses	Source	
1985	Murphy James R	R. L. Polk and Co. Publishers	Image pg. A6
1980	Murphy James	R.L. Polk Co. Publishers	Image pg. A17

538 BUXTON RD

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A6
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A17
1977	No Return	R.L. Polk Co. Publishers	Image pg. A27
1970	Forsyth Judy L	R.L.Polk Co.	Image pg. A36
1967	VACANT	R.L.Polk Co.	Image pg. A45

608 BUXTON RD

Year	Uses	Source	
1985	Main Terry M	R. L. Polk and Co. Publishers	Image pg. A6
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A17
1977	Ganow Diane M	R.L. Polk Co. Publishers	Image pg. A27
1970	Rigdon Dale	R.L.Polk Co.	Image pg. A36
1967	DIX LUELLA S MRS S	R.L.Polk Co.	Image pg. A45

619 BUXTON RD

Year	Uses	Source	
1985	Stoeckel Alf P	R. L. Polk and Co. Publishers	Image pg. A6
1980	Stoeckel Alf P	R.L. Polk Co. Publishers	Image pg. A17
1977	Stoeckel Alf P	R.L. Polk Co. Publishers	Image pg. A27
1970	Stoeckel Alf	R.L.Polk Co.	Image pg. A36
1967	STOECKEL ALF P a	R.L.Polk Co.	Image pg. A45

623 BUXTON RD

Year	Uses	Source	
1985	Nesbit Wm J Jr	R. L. Polk and Co. Publishers	Image pg. A6
1980	Nesbit Wm J	R.L. Polk Co. Publishers	Image pg. A17
1977	Nesbit Wm J	R.L. Polk Co. Publishers	Image pg. A27
1970	Nesbit Wm J	R.L.Polk Co.	Image pg. A36
1967	NESBIT WM J	R.L.Polk Co.	Image pg. A45

641 BUXTON RD

Year	Uses	Source	
1985	Evans Jack S	R. L. Polk and Co. Publishers	Image pg. A6
1980	Evans Jack S	R.L. Polk Co. Publishers	Image pg. A17

FINDINGS

Year	Uses	Source	
1977	Evans Jack S	R.L. Polk Co. Publishers	Image pg. A27
1970	Evans Jack S	R.L.Polk Co.	Image pg. A36
1967	EVANS JACK S	R.L.Polk Co.	Image pg. A45

704 BUXTON RD

Year	Uses	Source	
1985	Harrison John A	R. L. Polk and Co. Publishers	Image pg. A6
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A17
1977	Semon Harold A	R.L. Polk Co. Publishers	Image pg. A27
1970	Semon Harold	R.L.Polk Co.	Image pg. A36
1967	LAMPERT DON J	R.L.Polk Co.	Image pg. A45

DORA ST SE

520 DORA ST SE

Year	Uses	Source	
1967	JACKSON MAYNARD D	R.L.Polk Co.	Image pg. A46

531 DORA ST SE

Year	Uses	Source	
1985	Schuberg Thos S	R. L. Polk and Co. Publishers	Image pg. A7
1980	Lucas Walter R	R.L. Polk Co. Publishers	Image pg. A18
1977	Moore David L	R.L. Polk Co. Publishers	Image pg. A28
1970	Moore David L	R.L.Polk Co.	Image pg. A37
1967	MOORE DAVID L	R.L.Polk Co.	Image pg. A46

534 DORA ST SE

Year	Uses	Source	
1985	Jackson Maynard D	R. L. Polk and Co. Publishers	Image pg. A7
1980	Jackson Maynard D	R.L. Polk Co. Publishers	Image pg. A18
1977	Jackson Maynard D	R.L. Polk Co. Publishers	Image pg. A28
1970	7TH ST INTERSECTS	R.L.Polk Co.	Image pg. A37
	No Return	R.L.Polk Co.	Image pg. A37
	6TH ST INTERSECTS	R.L.Polk Co.	Image pg. A37

626 DORA ST SE

Year	Uses	Source	
1967	VACANT	R.L.Polk Co.	Image pg. A46

FINDINGS

708 DORA ST SE

Year	Uses	Source	
1985	No Return	R. L. Polk and Co. Publishers	Image pg. A7
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A18
1977	Vacant	R.L. Polk Co. Publishers	Image pg. A28
1970	Rice Eulen	R.L.Polk Co.	Image pg. A37
1967	LOW AUSTIN J	R.L.Polk Co.	Image pg. A46

710 DORA ST SE

Year	Uses	Source	
1985	Clark Jeffrey L	R. L. Polk and Co. Publishers	Image pg. A7
1980	Behnke Donna Mrs	R.L. Polk Co. Publishers	Image pg. A18
1977	Schmaedick Albert	R.L. Polk Co. Publishers	Image pg. A28
1970	Low Viola M Mrs	R.L.Polk Co.	Image pg. A37
1967	GENNANS BEATRICE V MRS	R.L.Polk Co.	Image pg. A46

713 DORA ST SE

Year	Uses	Source	
1985	Monroe Steven W	R. L. Polk and Co. Publishers	Image pg. A7
1980	Monroe Steven W	R.L. Polk Co. Publishers	Image pg. A18

746 DORA ST SE

Year	Uses	Source	
1985	Cardew Kary Mrs	R. L. Polk and Co. Publishers	Image pg. A7
1980	Blackwell Marshall V	R.L. Polk Co. Publishers	Image pg. A18
1977	Blackwell Marshall V	R.L. Polk Co. Publishers	Image pg. A28
1970	Blackwell Marshall	R.L.Polk Co.	Image pg. A37
1967	HAZELETT HUBERT H	R.L.Polk Co.	Image pg. A46

HARLOW ST SE

411 HARLOW ST SE

Year	Uses	Source	
1985	Beatty Edna L Mrs	R. L. Polk and Co. Publishers	Image pg. A1
1980	Beatty Jackie L	R.L. Polk Co. Publishers	Image pg. A11
1977	Beatty Jackie L	R.L. Polk Co. Publishers	Image pg. A22
1970	Me Manus Dean	R.L.Polk Co.	Image pg. A31
1967	MC MANUS DEAN S	R.L.Polk Co.	Image pg. A40

FINDINGS

422 HARLOW ST SE

Year	Uses	Source	
1985	Pashek Betty J Mrs	R. L. Polk and Co. Publishers	Image pg. A1
1980	Pashek Betty J Mrs	R.L. Polk Co. Publishers	Image pg. A11
1977	Pashek Betty J Mrs	R.L. Polk Co. Publishers	Image pg. A22
1970	Waid James V	R.L.Polk Co.	Image pg. A31
1967	ZIMMERMAN 0 H	R.L.Polk Co.	Image pg. A40

432 HARLOW ST SE

Year	Uses	Source	
1970	Arlint C L	R.L.Polk Co.	Image pg. A31
1967	VACANT	R.L.Polk Co.	Image pg. A40

533 HARLOW ST SE

Year	Uses	Source	
1985	Norpander Gary	R. L. Polk and Co. Publishers	Image pg. A1
	No Return	R. L. Polk and Co. Publishers	Image pg. A1
1980	6TH ST INTERSECTS	R.L. Polk Co. Publishers	Image pg. A11
	Cook Floyd W	R.L. Polk Co. Publishers	Image pg. A11
1977	6TH ST INTERSECTS	R.L. Polk Co. Publishers	Image pg. A22
	Cook Floyd W	R.L. Polk Co. Publishers	Image pg. A22
1970	Jones Frank S	R.L.Polk Co.	Image pg. A31
	Smith Jerry E	R.L.Polk Co.	Image pg. A31
1967	FRANKS VERNON G	R.L.Polk Co.	Image pg. A40

603 HARLOW ST SE

Year	Uses	Source	
1985	Smith Eugenia E Mrs	R. L. Polk and Co. Publishers	Image pg. A1
1980	Smith Eugenia Mrs	R.L. Polk Co. Publishers	Image pg. A11
1977	Smith Eugenia Mrs	R.L. Polk Co. Publishers	Image pg. A22
1970	Smith Eugenia Mrs	R.L.Polk Co.	Image pg. A31
1967	SMITH EDW	R.L.Polk Co.	Image pg. A40

KIBLING ST SE

246 KIBLING ST SE

Year	Uses	Source	
1980	Akerson R M	R.L. Polk Co. Publishers	Image pg. A19
1970	No Return	R.L.Polk Co.	Image pg. A38
1967	WILLIS EDW E	R.L.Polk Co.	Image pg. A47

FINDINGS

324 KIBLING ST SE

Year	Uses	Source	
1985	Me Ewen Ron	R. L. Polk and Co. Publishers	Image pg. A8
1970	Davis Deane	R.L.Polk Co.	Image pg. A38
1967	DE CAMP RAYMOND D	R.L.Polk Co.	Image pg. A47

342 KIBLING ST SE

Year	Uses	Source	
1985	Vacant	R. L. Polk and Co. Publishers	Image pg. A8
1980	Schatz Geo J	R.L. Polk Co. Publishers	Image pg. A19
1970	Schatz Geo J	R.L.Polk Co.	Image pg. A38
1967	SCHATZ GEO J	R.L.Polk Co.	Image pg. A47

408 KIBLING ST SE

Year	Uses	Source	
1985	Wright Eliz V Mrs	R. L. Polk and Co. Publishers	Image pg. A8
1980	Wright Jim A	R.L. Polk Co. Publishers	Image pg. A19
1970	Wright Jim A	R.L.Polk Co.	Image pg. A38
1967	WRIGHT JIM A	R.L.Polk Co.	Image pg. A47

423 KIBLING ST SE

Year	Uses	Source	
1985	Scott Karole E	R. L. Polk and Co. Publishers	Image pg. A8
1980	Scott Leroy M	R.L. Polk Co. Publishers	Image pg. A19
1970	Scurry Charles	R.L.Polk Co.	Image pg. A38
1967	REEDY MARTIN	R.L.Polk Co.	Image pg. A47

446 KIBLING ST SE

Year	Uses	Source	
1985	Kempe Curtis L	R. L. Polk and Co. Publishers	Image pg. A8
1980	Kempe Curtis L	R.L. Polk Co. Publishers	Image pg. A19
1970	Hilbert Bernard C	R.L.Polk Co.	Image pg. A38
1967	HILBERT B C	R.L.Polk Co.	Image pg. A47

PENQUIN PL SE

410 PENQUIN PL SE

Year	Uses	Source	
1985	Harrison Thos W	R. L. Polk and Co. Publishers	Image pg. A9
1980	Schooley Steph R	R.L. Polk Co. Publishers	Image pg. A20

FINDINGS

420 PENQUIN PL SE

Year	Uses	Source	
1985	Smith Tyler	R. L. Polk and Co. Publishers	Image pg. A9
1980	Memmott Dale	R.L. Polk Co. Publishers	Image pg. A20
1977	Schlechter Lawrence	R.L. Polk Co. Publishers	Image pg. A29

430 PENQUIN PL SE

Year	Uses	Source	
1985	Corbett Nelson	R. L. Polk and Co. Publishers	Image pg. A9
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A20
1977	Lindberg Lindy E bldg contr	R.L. Polk Co. Publishers	Image pg. A29

SANDY

622 SANDY

Year	Uses	Source
1924	INDEPENDENT Service Station R M West	R.L. Polk Co., Inc.

624 SANDY

Year	Uses	Source
1924	PETERSON Harry Verna Ingshrmn	R.L. Polk Co., Inc.

626 SANDY

Year	Uses	Source
1924	Hyerstay Edw furn pkr	R.L. Polk Co., Inc.

680 SANDY

Year	Uses	Source
1924	Pollard Lloyd L	R.L. Polk Co., Inc.

682 SANDY

Year	Uses	Source
1924	GUSTAFSON Theo H Irene uphlstr	R.L. Polk Co., Inc.

SE 4TH ST

192 SE 4TH ST

Year	Uses	Source
2013	ESTACADA MOTOR SPORTS CO	Cole Information Services

FINDINGS

SE 5th Street

244 SE 5th Street

Year	Uses	Source	
1985	Ferguson Bill E	R. L. Polk and Co. Publishers	Image pg. A10
1980	Ferguson Bill E	R.L. Polk Co. Publishers	Image pg. A21
1977	Ferguson Bill	R.L. Polk Co. Publishers	Image pg. A30
1970	Turner Leroy	R.L.Polk Co.	Image pg. A39
1967	TURNER LEROY	R.L.Polk Co.	Image pg. A48

408 SE 5th Street

Year	Uses	Source	
1985	Me Pherren Dorothy Mrs	R. L. Polk and Co. Publishers	Image pg. A10
1980	Me Pherren Lyle F	R.L. Polk Co. Publishers	Image pg. A21
1977	Mc Pherren Lyle F	R.L. Polk Co. Publishers	Image pg. A30
1970	Reed Howard F	R.L.Polk Co.	Image pg. A39
1967	VACANT	R.L.Polk Co.	Image pg. A48

433 SE 5th Street

Year	Uses	Source	
1985	Paine Carroll A	R. L. Polk and Co. Publishers	Image pg. A10
1977	Paine Carroll	R.L. Polk Co. Publishers	Image pg. A30
1970	Barrett Charles Z	R.L.Polk Co.	Image pg. A39
1967	BARRETT CHARLES	R.L.Polk Co.	Image pg. A48

SE 6TH ST

185 SE 6TH ST

Year	Uses	Source
1924	WEBSTER Frank L Grace elk Swift&Co	R.L. Polk Co., Inc.

204 SE 6TH ST

Year	Uses	Source
2008	WHEELIES IN THE GRASS LLC	Cole Information Services

SE 7TH ST

121 SE 7TH ST

Year	Uses	Source
2008	ALBERTINA KERR CENTERS INC	Cole Information Services

FINDINGS

218 SE 7TH ST

Year	*Uses*	*Source*
1946	Morris Howard A r	The Pacific Telephone and Telegraph Company

234 SE 7TH ST

Year	*Uses*	*Source*
1946	Day Nursery	The Pacific Telephone and Telegraph Company

SE 8TH ST

210 SE 8TH ST

Year	*Uses*	*Source*
1946	Leeb Wm r	The Pacific Telephone and Telegraph Company

218 SE 8TH ST

Year	*Uses*	*Source*
1946	Doran Carl L r	The Pacific Telephone and Telegraph Company

SE HARLOW AVE

603 SE HARLOW AVE

Year	*Uses*	*Source*
2003	PARROTT CARPENTRY	Cole Information Services
	PARROTT CARPENTRY	Cole Information Services

SE KIBLING ST

446 SE KIBLING ST

Year	*Uses*	*Source*
2008	PAPERMATIC	Cole Information Services
	ODORITE WESTERN	Cole Information Services
2003	ODORITE WESTERN	Cole Information Services

SE SANDY BLVD

550 SE SANDY BLVD

Year	*Uses*	*Source*
1924	OBBIEN Jno Alice barber	R.L. Polk Co., Inc.

FINDINGS

624 SE SANDY BLVD

Year	Uses	Source
1924	WILCOX Richd	R.L. Polk Co., Inc.
	MILLER Fred baker	R.L. Polk Co., Inc.
	Forester Chas tallymn	R.L. Polk Co., Inc.

634 SE SANDY BLVD

Year	Uses	Source
1924	ROBINSON Harry D Camille furn pkr	R.L. Polk Co., Inc.

638 SE SANDY BLVD

Year	Uses	Source
1924	BELL Paris Cleaners GW Eaton VN Elliott	R.L. Polk Co., Inc.

680 SE SANDY BLVD

Year	Uses	Source
1924	NELSON Gust A Marie asst frmn American Brush Mifg Co	R.L. Polk Co., Inc.

684 SE SANDY BLVD

Year	Uses	Source
1924	LARSON Harry G Agnes elk Tru Blu Biscuit Co	R.L. Polk Co., Inc.

691 SE SANDY BLVD

Year	Uses	Source
1924	Jantzen Knitting Mills J A Zehntbauer pres C R Zehntbauer v pres J R Dodson treas C C Jantzen sec	R.L. Polk Co., Inc.

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
648 SE Harlow Avenue	2013, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
102 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
102 7TH ST SW	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
121 SE 7TH ST	2013, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
123 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
131 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
131 6TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
134 6TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
136 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
145 7TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
146 7TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
148 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
185 SE 6TH ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
192 SE 4TH ST	2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
204 6TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
204 SE 6TH ST	2013, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
206 4TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
207 7TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
209 6TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
210 SE 8TH ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1940, 1935, 1930, 1924
218 SE 7TH ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1940, 1935, 1930, 1924
218 SE 8TH ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1940, 1935, 1930, 1924
221 7TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
226 8TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
234 SE 7TH ST	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1940, 1935, 1930, 1924
235 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
242 7TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
244 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
244 SE 5th Street	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
245 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
246 KIBLING ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
247 4TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
324 KIBLING ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
342 KIBLING ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
346 4TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
349 SE 5th Street	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
365 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
385 4TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
408 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
408 KIBLING ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
408 SE 5th Street	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
410 PENQUIN PL SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
411 HARLOW ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
420 PENQUIN PL SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
422 HARLOW ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
423 KIBLING ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
430 PENQUIN PL SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
431 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
432 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1977, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
432 HARLOW ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
432 SE Harlow Avenue	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
433 5TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
433 SE 5th Street	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1980, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
434 4TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
435 4TH ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
446 KIBLING ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
446 SE KIBLING ST	2013, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
520 DORA ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
525 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
526 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
528 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
529 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
531 DORA ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
532 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
533 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
533 HARLOW ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
533 SE Harlow Avenue	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
534 DORA ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
536 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
537 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
538 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
545 SE Harlow Avenue	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
550 SE SANDY BLVD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
603 HARLOW ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
603 SE HARLOW AVE	2013, 2008, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
603 SE HARLOW AVE	2013, 2008, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
603 SE Harlow Avenue	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
608 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
619 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
622 SANDY	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
623 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
624 SANDY	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
624 SE SANDY BLVD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
625 SE Harlow Avenue	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
626 DORA ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
626 SANDY	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
634 SE SANDY BLVD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
638 SE SANDY BLVD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
641 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

FINDINGS

Address Researched	Address Not Identified in Research Source
647 SE Harlow Avenue	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
680 SANDY	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
680 SE SANDY BLVD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
682 SANDY	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
684 SE SANDY BLVD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
691 SE SANDY BLVD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930
704 BUXTON RD	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
708 DORA ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
710 DORA ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
713 DORA ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
746 DORA ST SE	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

Source Page Images Appendix

United Way Thanks to you - it works - for all of us

Kern Park Floral
FLOWERS BY WIRE - CITY WIDE DELIVERY
Tel. 774-3265
6713 S.E. Holgate Blvd.

NE HANCOCK ST—Contd
14714 Wilson Construction Co power line contrs 253-4377
Wilson Matt O ◎ 256-1066
14719 No Return

525
NE ENQUIST WY INTERSECTS
17223 Yingling Kenneth F ◎ 253-2801

300
HARLOW AV SE (TROUTDALE) FROM 320 SE 12TH ST NORTH

ZIP CODE 97060
1111 Mc Clain Donna M Mrs ◎ 665-0904
1133 German Clifford C ◎
1204 Baxter Douglas A ◎ 666-9165
1205 Talbot Walter B ◎
1216 Vacant
1227 No Return
1228 Colantino Jas M 667-1577
1230 Bacos Daniel L
1239 Hanes Steven I ◎ 666-8179
SE 13TH ST INTERSECTS
1331 Strickland Lee O ◎ 661-2720
1335 O'Dierno Tony
1413 Hoffman Steven G ◎
1425 Vacant
1430 Bernier Richd L
SE CHAPMAN INTERSECTS
2143 Mansfield Robt E ◎
2146★Maunder Michael S
2149 Ohrn Donald B 667-5183
2152 Vacant
2155 Vacant
2157 O'Brien James L ◎ 665-6354
2160★Anderson Theodore ◎ 661-3956
2163★Van Rij Paul F 665-5995
2204 Vacant
2206 No Return
2212 Yoder Mike ◎ 661-4431
2226 Netzel Bruce W ◎ 661-0626
SE HARLOW CT INTERSECTS
2233 Wentz David ◎ 667-7928
2238★Churchill Thomas E 667-2496
2309 Denniston Everett A Rev ◎ 661-4687
2312 Janson Larry E ◎ 665-2982
2317 Steele Thos A ◎ 661-4459
2324 Cox G A ◎
2335★Shippentower Joseph N ◎
2340★Shell Barton C ◎ 667-7078

300
HARLOW CT SE (TROUTDALE) FROM 2226 SE HARLOW AV NORTH

ZIP CODE 97060
2167★Towsley Bruce ◎ 666-2597
2168 Rowe Gary L ◎ 661-6631
2172★Hendrickson Donald T ◎ 667-3976
2206★Stillman Randy L 661-6597
2213★Nasser Khatchoui
2219 Touch Of Class Catering 661-2462
★Mosselman Hassan K ◎ 665-8292

300-A
3504 La Frenz Joseph F ◎ 667-0944
3505 Wilson Chas E ◎ 666-4987
3511 Irwin Robt L ◎ 667-3824
3512 Mc Arthur Thos ◎ 667-6181
3606 Wrede Richd D ◎ 666-5833
3610 Vacant
3616 Dunham David J ◎ 666-7015
3617 No Return
3624 Fothergill Elbert ◎ 661-7089
3629 Pleskac Rick V 667-0149
3630 Meany
3631 Morrison Carolyn A Mrs ◎ 667-5050
3644 Vacant
3645 Norlander Thos A 667-6669
★Norpander Gary 667-2700

300
HARLOW PL SE (TROUTDALE) FROM 320 SE 12TH ST WEST

ZIP CODE 97060
1109 Croghan Danison ◎ 667-0327

300
HARLOW ST SE (TROUTDALE) FROM UP RR TRACKS SOUTH 2 EAST OF BUXTON RD

ZIP CODE 97060
100 Vacant
NE 2D ST INTERSECTS
116 United Steel Workers Local 330 667-2720
E COLUMBIA ST INTERSECTS
126 Jones Alex M 666-6718
138 Albin Luella Mrs ◎
208 Spitzer Rick E
234 Vacant
235 Chambers Clara C Mrs ◎ 666-1470
236 Vacant
243 No Return
244 Jones Jayvan W ◎
SE 3D ST INTERSECTS
302 D & B Bennett mfg stereo components 667-3680
323 No Return
SE 4TH ST INTERSECTS
411 Beatty Edna L Mrs ◎ 666-3022
422 Pashek Betty J Mrs ◎ 666-2053
SE 5TH ST INTERSECTS
533 No Return
6TH ST INTERSECTS
603 Smith Eugenia E Mrs ◎ 665-3346
648 Troutdale Grade School 665-4182

568
HARNEY DR SE —FROM SE 45TH AV EAST 1 SOUTH OF SE UMATILLA DR

ZIP CODE 97206
4543 Kramer O W ◎ 771-9536
4600 Precision Castparts Corp metal die casting 777-3881
4807 Sprenger David 775-2690
4903★Matthews Thos ◎ 774-5650
4905 Grolbert Richd H ◎ 777-1967
4917★Clarke Jas R ◎ 771-7036
4943 Oulman Allen H ◎ 771-9909
5011 Rankin Agnes L Mrs ◎
5027 Maxey Wm D ◎ 771-7693
5100 White Stag Apparel whol wn's clo 777-1711
White Stag Manufacturing sporting gds mfrs 777-1711
Warnco West Coast Sportswear Group 777-1711
Action Sports 777-1711
5111 Puckett Herbert U ◎ 775-7954
SE 52D AV INTERSECTS
5200 White Stag Mfg (addl sp)
5241 Vacant
5255 Britzius Elma L Mrs ◎ 771-7534
5305★Miller Michl ◎ 771-2497
5308 Martin Mathias J ◎ 771-0170
5313 Vacant
5323★Oliverio John B 775-7815
5410★Davis Mark 771-1206
5420★Thomas Gene ◎ 775-0956
5430 Jansen Mitchell 775-9039
5445 Borgonsgard Naomi Mrs ◎ 771-2283
SE 55TH AV INTERSECTS
SE MALDEN DR INTERSECTS
5629 Hermle Anna R Mrs ◎ 774-2260
5655 Grant Charles E ◎ 775-2159
SE 57TH AV INTERSECTS
5720 Stevens Loris D ◎ 771-6473
SE 58TH AV INTERSECTS
5835 Oswald Juergen P ◎ 771-5806
5849 Hodge Matthew C ◎ 771-9202
5854 Sorenson Frank C ◎ 771-8364
5859 Mayenschein Leo A ◎ 775-7599
5872 Crest Apartments
A Vacant
B Potts Kathleen Mrs
C Carlson David
D Vacant
E Johnson Beverly A 777-0192
J Hornyak Phillip
5909 Gross Arnold C ◎ 774-0091

570
HARNEY ST SE —FROM SE FLAVEL DR EAST 5 SOUTH OF MALDEN DR

ZIP CODE 97206
5905 Guy Leslie R ◎
5921 Vacant
5933★Dienstel Marlys C ◎ 774-8234
5950 Goff Warren H ◎ 774-7276
5951 Vacant
SE 60TH AV INTERSECTS
6009 Wilson Marc S ◎
6015 Ward Wm E ◎ 774-8382
6031 Vacant
6036 Lynch Hugh ◎ 775-2434
6045 Wilson Charles D ◎ 775-8112
6049 Thomas Wm P ◎
6050 Anaack John 771-5482
6108 Vacant
6109 Fox Sylvester Jr ◎ 775-8865
6121 Smith John T ◎ 775-1359
6135 Vacant
6136 Shaw Donald ◎
6150 Vacant
6154 Vacant

572
SE 62D AV INTERSECTS
6233 Hartwell Beverly A Mrs ◎ 775-9695
6238 Dittler Edw G ◎ 774-5279
SE 63D AV INTERSECTS
6310 Strom Dennis ◎
6311★Dinneen Sheila M 775-3871
SE 64TH AV INTERSECTS
SE 65TH AV INTERSECTS
6508 Heng Ham ◎ 775-6844
6535 Bailey Dyan K 771-0629
SE 66TH AV INTERSECTS
6611 Vacant
6612 Lovell Richd 777-5724
6625 Mc Farland Ernest M 775-2612
6626★Carr James H 774-5594
SE 67TH AV INTERSECTS
6737 Sparks Roderick J ◎
SE 68TH AV INTERSECTS
6805★Carpenter Terry C 771-4633
6815★Lytle Carrie W
SE 69TH AV INTERSECTS
6905 Dozark Harold D ◎ 771-5746
SE 70TH AV INTERSECTS
7010 Fee Orrin P ◎ 775-8216
7020★Gandy Richd C ◎
7030★Hyatt Craig S ◎ 775-8967
7044★Hernandez Pedro 775-8453
7048 Kelturk Andrew ◎
7050 Oliver John M
7066 Thomas Helen Mrs ◎ 774-6756
7102★Klein Jesse 775-4105
7112★Davis David A 774-7385
7129 Mount Hood Little League Parker Field (pks & playgrounds)
SE 72D AV INTERSECTS

574
SE 72D AV INTERSECTS
7215 Blank Dale R ◎ 775-8794
7225 Smith Marilyn M Mrs ◎
7226★Clausen Robert
7227 Vacant
7228 Vacant
7305★Totten Jeffery 771-9657
7306 Planton M E 774-6555
7312 Hansen Richd ◎
7315 Green Hazel Mrs ◎ 774-6791
7326★Pellum Ted 774-0622
7330 De Wolfe Scott
SE 74TH AV INTERSECTS
7400 Strode Todd
7402 Braden Harold D ◎ 775-7698
7418 Grablers Larry ◎
7425 Wallstrum Raymond E ◎ 777-2332
SE 75TH AV INTERSECTS
7502 Mc Intosh Gordon A ◎ 771-2871
7504 Stults Susan ◎
7505 Wolfley Bruce ◎ 777-1670
7522 Vacant
SE 75TH PL INTERSECTS
7536 Jasperson Garland ◎
7550★Eftekhar Baha
7575★Hicks Carol M Mrs ◎ 775-0675
7606 Baxter Richd F ◎ 771-9618
7607★Kirchem Severn 775-3996
7619 Nelson Eric F ◎ 775-4869
7626★Bradshaw George E
SE 76TH PL INTERSECTS
7640 Mulberry James M ◎ 775-9497
7646 Kienberger Jack ◎ 777-3070
7651 Vacant

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NW 4TH ST (G)—Contd
1780 Petrusich Milan ◎ 666-1410
1795 Atterbury Louie E ◎ 666-4290
NW BELLA VISTA DR INTERSECTS

602
4TH ST SE (GRESHAM)—FROM 411 SE ROBERTS AV EAST

ZIP CODE 97030
325 Vacant
327 Mortenson Larry D 661-4077
329 Miller Steven R
331 Johnson Kathy O ◎ 667-5419
SE BEECH AV INTERSECTS
406 Redfern Loren J ◎ 666-2402
407 Newman Douglas F ◎
408 Burlingame Laura Mrs ◎ 665-5698
409 No Return
410 Guenther Helen Mrs ◎ 665-3393
411 Light House Baptist Church
SE KELLY AV INTERSECTS
520 Biever Bessie R Mrs ◎ 665-7279
535★Rea Wm T ◎
550 Kleyla Robt L 661-1179
SE ELLIOTT AV INTERSECTS
609 Redfern Earl E ◎ 665-2023
610 Stines Ira R ◎ 666-3443
624 Tauscher Joseph E ◎ 666-4265
634 Green Ralph ◎ 665-3857
635★Haskins Bob ◎ 661-5109
S E LINDEN CT INTERSECTS
SE LINDEN AV INTERSECTS
730★Pasco Rex
731 Vacant
735 Wallin Bernadine J Mrs ◎ 665-3920
740 Trentham David L ◎ 665-2228
SE JUNIPER AV INTERSECTS
801 No Return
802 Loftin Leonard ◎ 665-8855
840 Vacant
845 Vacant
865 Kilker Elin S Mrs 666-1771
885★Fuller Houston R
890 Vacant

601
SE SPRUCE AV INTERSECTS
910 Hall Richd C ◎ 667-6907
911 Ivens James W ◎ 667-6850
920 Laws Evalena Mrs ◎ 665-5224
925★Fox Robt ◎
930 Dreyer Mae Mrs ◎ 665-4832
940 Vacant
943 Paschall Gleen L ◎ 665-3341
944 Amsberry Melvin H ◎ 667-0106
SE MORLAN AV INTERSECTS
1005 Vacant
1010 Spatz Clarence G ◎ 666-8104
1020 No Return
1030 Schaefer Ray J ◎ 665-2069
1104 Widmer Grant W ◎ 665-7745
1105 No Return
1107 No Return
SE EVELYN ST INTERSECTS
1124★Betita Romeo 665-1525
1127 Yamamuro Geo ◎ 665-7697
1128★Anderson Darlene J 665-2310
1210 Rowlands Floyd C ◎ 665-3972
1217 Church Of Christ 665-5744
1220 Backus Marian L Mrs ◎ 665-6866
1310★Dawson Clayton L 667-8151
1315 Shalom Day Care Center pre-school 665-1364
1320★Young Vance A
1330★Marcus Ronald W 661-2024
1340★Wilson Shirley J Mrs
1345★Hiebert Art C 665-1364
1375 Anderson Alvin A ◎ 667-0657
1380 Swanson Kenneth H 666-1632
1409 Montoya Cesar Jr ◎
1410 No Return
1412★Demagalski Michl D
1414★Bowser Jon C 661-8830
1415★Mock Maurice L ◎
1416 Vacant
1421 Montague Steph C 666-7927
1440 Woods Lyle F 667-9403
1440-2 No Return
SE VISTA AV INTERSECTS
1505 Gladen Russell H ◎ 666-2600
1530★Calhoun Thos A ◎ 666-2329
1550 Gradwohl David C ◎ 665-7837
1555 Vacant
1575 Van Voorhees Kenneth L
1605★Ayres Danl 665-5238
1610 Kirwan M Frank ◎ 665-8421
1615★Busse Ralph J 661-8903
1624 Fagan Timothy G ◎ 667-4157
1625 Jackson Sarah A Mrs ◎ 665-7304
1634 No Return
1654★Reed Laura E 669-1689
1700 Dahm Raymond G ◎ 665-6995
1715 Raff Anna Mrs ◎ 661-6489
SE HOGAN RD INTERSECTS

609
3080 No Return
3083★Smith Chas R 665-0695
3132 Vacant
3139 Moyer Wm H ◎ 666-5254
3171 Reiter Timothy A ◎ 666-3004

610
4215 Vacant
4218★Morford Pearl I Mrs ◎ 661-6495
4225 Vacant
4228★Kent Steph L 661-4977
SE LOVRIEN AV INTERSECTS
4300★Kirkendall Jas H ◎ 667-9321
4350★Ramseyer Jeff L ◎ 661-3455
4355 Vacant

300
4TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 3 SOUTH OF COLUMBIA ST

ZIP CODE 97060
105 Card Frank S ◎ 666-1043
SE DORA ST INTERSECTS
206 Kogle Phyllis J Mrs ◎
247 Edgley Vera V Mrs ◎ 665-9781
SE HARLOW ST INTERSECTS
346 Walls Patricia M ◎ 666-6686
385 Alexander James R Rev ◎ 666-1420
SE KIBLING ST INTERSECTS
434 Breshearf Ronald L
SE SANDY ST INTERSECTS

603
4TH ST SW (GRESHAM)—FROM 222 S W 5TH ST WEST

ZIP CODE 97030
290 No Return
291 Eberhardt Gene L ◎ 667-5510
SW VICTORIA CT INTERSECTS
301 Vacant
331 Gumm Lee ◎
340 Corson John A ◎ 667-5393
361 Clawson Rodger V ◎ 666-8790
370 Carter Gary D ◎ 667-0721
381 Park Elmer L Jr ◎ 665-4925
SW EASTMAN CT INTERSECTS
421 Lakey Robt W ◎ 666-8003
430 Weisenborn Geo A ◎ 666-9670
441 Mc Allister Keith H ◎ 666-9179
450 Crockett David C ◎ 666-6496
471 Johnson Connie F ◎ 666-6488
490 Miller N J 661-6810
491 Baker Barry D ◎ 667-1762
510 Powers Lee A ◎ 665-7081
521 Spencer Lance M ◎ 665-0672
530 White Robt L ◎
561 Applebee L ◎ 666-6860
581 Morris Richd 667-5761
SW 6TH ST INTERSECTS
601 Takeuchi Thos K ◎ 665-8245
621 Currier Keith D 667-1854
641 Myers Jon W ◎ 661-0919
683 Ackerman Garry D ◎ 661-5459
692 Long Dale A ◎ 666-8418
SW 7TH ST INTERSECTS
705 Tripp Wilbur D ◎ 667-1295
712 Armstrong Richd H Jr ◎ 661-5589
713 Jones Patk B ◎ 667-2704
720 Pelfrey Richd A ◎ 666-9050
740 No Return
SW DAY PL INTERSECTS
SW OVERLOOK CT INTERSECTS
SW FLORENCE ST INTERSECTS
805 Vacant

604
1238 Lichtenberg Lowell ◎ 666-4201
1241 Linn David J ◎ 666-9522
1263 Dickey David L ◎
1266 Rogers Rick A ◎ 666-5171
1284 Baker David L ◎ 667-1671
SW WALLULA AV INTERSECTS
1320 Kawecki Gerald J 665-7903
1321 Choate Judy L ◎ 667-6752
1353 Greenburg Fred J ◎ 667-6018
1377 Warren Jack C Jr ◎ 665-7920
1386★Robinson Bradley J ◎ 661-5790
1423 Guitron Beverly L
1426 Schumacher Hugo ◎ 665-9603
1451 Rimbey Larry D ◎ 665-0851
1454 Braden Gary 667-2569
1475 Koga Lincoln K ◎ 667-2210
1478 Kinsky Thos M 665-8705
SW TOWLE AV INTERSECTS

642
SW ANGELINE AV INTERSECTS
ZIP CODE 97030
1610 Christ Arland H ◎ 661-4715
1615 Von Arx Andre ◎ 661-2381
1626★Morrow Michl A ◎ 667-4990
1631 Bovais Donald A ◎
1642★Wong Kan ◎ 661-5652
1657 Mc Cabe James B ◎ 667-4324
1660 Burstow Ann F Mrs ◎ 665-3889
1666 Eldridge Alan W ◎ 661-1108
1675 Hale Robt E ◎ 661-5893
1682 Hewitt Robt B ◎ 667-0876
1691 Obid Mitch I
1720★Warner Michl F ◎ 667-2335
1727 Gjestland Norman A ◎ 665-5627
1736 Nordby Gary E ◎ 661-7329
1745 Gillette Charles F II ◎ 665-6608
1762 Anderson John D ◎ 667-9285
1771 Gress Michl P
SW WILLOWBROOK DR INTERSECTS
2202★Gibson Robt M ◎ 661-4422
2203★Stoertz Ursula K Mrs
2212★Tuso Jas C ◎
SW LILLYBEN AV INTERSECTS
2222 Under Constn
2231★Krusel Jeffrey L ◎
2232★Campbell Patrice Mrs ◎ 667-4020
2301★Getgen Russell E 661-2256
2302★Mc Lean Bruce E ◎
2307 No Return
2312★Sabin Michl J ◎ 665-0739
2322 No Return
3718 Mc Daniel Jerry L ◎ 665-9547
3719★Peterson Walter E
3752 Ketcham Larry B ◎ 661-5433
3755 Madills Dave E ◎ 661-6079
3785 Glivinski Gene A ◎ 666-6326
3792 Cushing
3811★Fothergill Ralph R Rev 665-8083
3824 Barnes Randy L ◎ 667-2911
3827 Aromin Raul ◎ 665-3973
3850 Fenton Robt L ◎ 661-6643
3853 Eisenbraun Dale F ◎ 667-6929
3890★Curtis Myron L ◎
3893 Billion Ronald A ◎ 666-8777
3912 Nichols Gary A ◎ 666-2042
3915 Tiro Allan O ◎ 665-1593
3918 Errico Joseph ◎ 661-1197
SW DUNIWAY AV INTERSECTS

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SE 5TH ST (G)—Contd
644★White Paul D 665-9419
676★Sappington Alan L 666-7904
SE LINDEN AV INTERSECTS
705 Lapp Ralph E ◎
711★Chapman R J ◎
SE JUNIPER AV INTERSECTS
800 Dorsey Rubye M Mrs ◎ 665-8881
810★Butcher Dennis D
811 Veselik Bryan J ◎ 661-5069
820 Armstrong Eric L ◎

601
SE SPRUCE AV INTERSECTS
900 East Gresham Grade School 661-6050
931 Weisgerber David J ◎ 667-0692
935 Schaer Andrew E ◎ 665-7694
1105 Dover Mikel C 667-7991
1115★Steward Calvin G
1145★Brown Delbert C 669-0430
1155★Lucky Gary ◎
1165 Vacant
1175 Spruill Judy B ◎ 667-1040
1185 Pearson Robt A Rev ◎ 667-0786
1195★Marchi Jeffrey A 669-0997
1205★Jordan Rod W
1215★Fuller Susan 667-4462
1235★Winters Joel C 666-1397
1255 Mc Gee
1257 No Return
1265 Vacant
1275 Hammer D L 667-2649
1285★Baumgardner James A 667-1854
1305★Anderson Donald L 667-3962
1315★Nielsen Kenneth W 665-2349
1335★Hernandez Michl R 667-5636
1345★Wolance Harry S 665-9810
1365★Tompkins Phillip L 666-5410
1375 Recker B A ◎ 661-1098
1385★Seipp Kathi
1395 Richardson Helen A Mrs ◎ 665-0730
1400 Dexter-Mc Carty School 665-0148
1425★Turner Steven J 666-2250
1435 Gilbey David M 667-8920
1445★Price Eldon T 661-5556
1455★Kamara Sharon L 665-4065
1465 Vacant
1475★Anderson Wm G bldg contr
1485 Vacant
1495★Pedro John W 669-1908
SE VISTA AV INTERSECTS
1585 Foster Carol M Mrs
1595 No Return
1615 Gratreak Robt L 667-0281
1625 Chandler Don 661-2687
1635 No Return
1645★Michael Alan E 661-7765
1695 Cunningham Bill
1705★Angus Tami Mrs 669-1478
1715★Palmer Reed K ◎ 665-0218
1725 Sullivan
SE HOGAN ST INTERSECTS

609
3091 No Return
3094 No Return
3140 No Return
3145 Pierson Gerald D
3188 Meriwether Paul W ◎ 665-4212
3189 Jolly Wm R ◎ 667-0282
SE HALE DR INTERSECTS
3204 Cook Frank I ◎ 661-2156
3215 Vacant
3259 Chaussee Jackie J
SE PAROPA PL INTERSECTS
3281 No Return

3780 O'Dell Robt W ◎ 666-3566
SE CENTURION AV ITERSECTS
3810 Gill Wm J ◎ 666-6006
3815 Schwab A J Mrs ◎ 661-7838
3830 Spring James R
3860 Vacant
3865 Wegener Gordon L ◎ 666-8133
3875 No Return
SE BARNES AV INTERSECTS
4025 Ludlow R Stewart ◎
4047 Vaughan Mary Mrs ◎
4050 Edenburn Murle D ◎
PALOMA AV INTERSECTS
SE GREENWAY DR INTERSECTS
4269 Anderson John P ◎ 666-6598
4278 Jones R B ◎ 661-1726
4289 Fouts Jeffrey T ◎
4320 Finnerty
4323 Brill Lawrence A ◎ 665-7804
4357 Malone Steven W ◎
4362 Witty Mary J ◎ 665-4680
4388 Vacant
4391 Nelson Ronald F ◎ 667-1374
4421 Kelley Milfred E ◎ 665-3216
SE LOVRIEN ST INTERSECTS
4465 Trubachik David ◎ 667-0967
4490 Harm Gary A ◎ 665-1783
4499 Vacant
4564 Webb Ted ◎ 666-8841
4567 Wong Leong T 666-5366
4592 Bramble Gar D ◎
4593 Strickland Rena Cheri
S E 268TH AV INTERSECTS
4612 Vacant
4619 Brown ◎
4620 Vedder P Mrs ◎
4625 Miller Wm A ◎ 667-1645
4631 Smyd Milton A ◎ 666-5316
S E BAKER AV INTERSECTS

300
5TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 4 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Moen Eileen R ◎ 665-2506
123 Young Polly
131 Bradley Jeff L 667-2317
136 Shanon Russell 661-3679
148 Bourne Fredk ◎ 666-7837
SE DORA ST INTERSECTS
235 Ferguson Roger 665-4833
244 Ferguson Bill E 666-2961
245 Kramer David ◎ 666-5014
SE HARLOW ST INTERSECTS
SE KIBLING ST INTERSECTS
408 Mc Pherren Dorothy Mrs ◎ 665-8878
431 Young Richd A ◎ 666-2272
432 No Return
433 Paine Carroll A ◎ 665-0287

642
5TH DR SW (GRESHAM)—FROM 3940 SE 182D AV EAST

ZIP CODE 97030
3660 Hammons Jerry D ◎ 661-6063
3680 Newcomer C E ◎ 665-4770
SW HARTLEY AV INTERSECTS
3720★Turner Donald E 661-0854
3725 Garrett Robt G ◎ 667-0285
3750 Holmes Dennis J ◎ 665-1824
3755 Romero Roy L ◎ 665-6997
3785 Becker Harold A ◎ 661-6488
3790 Stanley Harry ◎ 665-5446
3810 Shaw Steven M ◎ 666-1214
3835 Panza Joseph ◎ 667-4863
3845 Pike Victor R ◎ 666-5974
3850★Tangen Kevin S ◎ 665-4104
3875 Perica Gerald E ◎ 666-7717
3880 Ganther Harold O 665-6038
SW DUNIWAY AV INTERSECTS
3905 Hare Glenn K ◎
610
3920 Mendiola Augusto N ◎ 665-7905
3925 Kling Thos M ◎ 667-1206
3965★Thompson Jack R ◎ 666-6818
3970 No Return
SW NANCY AV INTERSECTS
4000 Robinson Harold ◎
4010 Schroeder John R ◎ 667-0988
4027 No Return
4030 Lambert Doug ◎ 666-6890
4077★Oades John ◎ 667-0171
4080 No Return
4110 Thomas Geo E ◎ 666-7548
4117 Ehmann Wm R 666-7616
4127 Birchard J Tom ◎ 666-3573
4130★Meno Paul ◎
4167 Bauck Jerry L ◎ 666-4872
4170 Howell Charles P ◎ 666-4669
SE 182D AV INTERSECTS

603
5TH ST SW (GRESHAM)—FROM 510 SW WALTERS DR EAST

ZIP CODE 97030
52 Metteson Chester F
126 Walker Douglas L 666-8671
222 Nelson Scott R ◎ 665-6007

642
1570★Hickman J F 667-4117
1573★Davis Robt K ◎ 667-1727
1594★Thompson Dan A 666-9422
1608★Lupuleasa Dan ◎
1610★Lewis Larry V ◎ 666-9467
1623 No Return
1624 Schwaenke M D 661-0205
1649 Clark Roy F Jr ◎
SW ANGELINE AV INTERSECTS
1658 Pense Clair E
1667 Young Frank H ◎ 666-5822
1670 Butts Robt ◎
1684★Koken Jack L ◎ 665-9004
1693 Huffman John G 661-1637
1698 Lenord N
1719 No Return
1730 Smith Quintin ◎
1747 No Return
1754 Pieschel Donald W C 666-5015
1773★Jenson Jerry L ◎ 665-9484
1788★Wagner Ronard L
1809 Freeland
1834 Orren Debbie
1857 No Return
1878 Racasa Gonzalo D 661-3550
1883★Monnes David E 665-0465
SW WILLOWBROOK DR INTERSECTS
SW MAWRCREST DR INTERSECTS
2322 No Return

610
6TH CT NE (GRESHAM)—FROM 595 NE SCOTT AV EAST

ZIP CODE 97030
3531 Robinson Steven C ◎ 666-6979
3553 Hutchison Helen M Mrs ◎ 665-2808
3554 Sieverson Jack W ◎ 666-9269
3574 O'Brien
3583 Lind David E ◎ 666-4670
3586 Dukart S A 661-3069
3588 Hutchinson Bill
3590 Stinson Richd H ◎ 666-6034
3613 No Return
3623 Vacant
3624 Vacant
3625 Olson Arth H ◎ 666-5006
3634 Looyens Louis F ◎ 667-5709
3636 Vacant
3666 Akin Nancy L ◎ 665-5635

604
6TH CT NW (GRESHAM)—FROM A POINT WEST OF 685 NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1520 Retzlaff Steven R artist 661-2160
1555 Dorsing Ray M ◎
1560 York Bea Mrs ◎ 666-2584
1580 Taylor Patk ◎
1585 Fuller Michl D ◎ 665-2855

MANHATTAN - ROSE CITY GLASS INC.
8324 S.E. FOSTER
SINCE 1950

603
6TH CT SW (GRESHAM)—FROM 546 SW 6TH ST EAST IN A SEMI-CIR

ZIP CODE 97030
SW MILLER CT INTERSECTS
117 Harrington Danl J 665-9485
123 Fischler Kenneth M ◎ 661-3874
130 Malzahn M M ◎ 666-2005
201 Vacant
215 No Return
SW WALTERS DR INTERSECTS
505 Downing Chas D realtor ◎ 665-9075
513 Carbone Leo E ◎ 665-7468
523 Findlay Matt ◎ 667-7794
533 Cuda Anthony ◎
543 No Return
545 Baker Gregg ◎ 665-8604

604
6TH DR NW (GRESHAM)—FROM 620 BELLA VISTA DR WEST

ZIP CODE 97030
1780 Reed Ralph L ◎
1795 Miller Lowell L
1800 King Miles A ◎ 665-3546
1825 Booth Audrey S 666-4071
1840 Rupp Cecil Mrs ◎
1855★Richardson Clifford J Jr ◎ 667-3021
1860 Van Dusen-Blank A
1885 Sears Kenneth E
1890★Wilson Arth A fiber optic eng ◎ 669-7193
1915 Wallen James H ◎ 665-0576
1920 Wilson Mae M Mrs ◎ 665-6979
1945 Vacant
1960 West Kenneth M ◎ 661-3377
1975 Holt Robt L ◎ 667-5647
1980 Stephens Donald
2005 Yutze Otto G ◎ 666-2602
2010 Thomas Peter T ◎ 661-3597
2020 Shepherd Alice M ◎ 665-7619
2025★Funk Walter L ◎ 667-6696
NW CASCADE CT INTERSECTS
NW RIVERVIEW PL INTERSECTS

604
6TH PL NW (GRESHAM)—FROM NW CASCADE CT WEST 1 SOUTH OF NW 7TH PL

ZIP CODE 97030
NW CASCADE CT INTERSECTS
2178 Carlson Patk A ◎ 666-9217
2185 Eason Henry H ◎ 666-2585
2198 Martin R E ◎ 667-2612
NW BIRDSDALE AV INTERSECTS

604
6TH PL SW (GRESHAM)—FROM SW TOWLE AV EAST 1 SOUTH OF SW 5TH PL

ZIP CODE 97030
1421 Zuiches Walter G 666-9246
1430 Kindler Gail L Mrs
1439 Hauser C Alan ◎ 666-7906
1448★Oller Robt L ◎ 661-5386
1455★Humphreys Jerry G ◎ 667-8258
1470 Vandenbos Arlo L ◎ 666-7273
1471 Grumbo Richd P ◎ 661-7289
1489 Bigelow Greg S ◎ 666-1175
1492 Lamb Cathryn J ◎

600
6TH ST NE (GRESHAM)—FROM NE LINDEN AV EAST 1 NORTH OF NE 5TH AV

ZIP CODE 97030
755 Vacant
NE LINDEN AV INTERSECTS
830 Speed's Gresham Towing 661-5288
890 Rothers Motors Inc auto repr 666-8601
891 Multnomah Cnty Action Agcy Weatheriztn Prog 665-7189

609
2614★Yee Waimun 661-4531
2620★Johnson J Howell
2630 Under Constn
2647★Stearns Richd D ◎ 667-6362
2650★Burgess Ronald W ◎ 665-8916
2864★Frame Steph D ◎ 667-4069
2881★Barnes Vern E ◎ 661-3815
2890★Goff F L 667-1509
2925★Hartill Jas M ◎ 665-3288
2938★Cusson Jas E
2947 Dettloff Geraldine Mrs
2964 No Return
2981★Karimi Razi ◎ 665-4713
3048 No Return
3074★Puukka Hannu T 666-7769

563
6TH ST NE (FAIRVIEW)—FROM 532 DEPOT ST SOUTHEAST

ZIP CODE 97024
17 Wren
25 Parsley Richd D ◎ 667-7921
30 Knaub Don 667-3384
MAIN ST INTERSECTS
150 Dumpprope Wilferd J 665-1291
160 Klinger Charles ◎ 665-3226
175★Swirtz Frank 666-0103
CEDAR ST INTERSECTS
235 Brinser Kenneth E
245★Vasquez Sanjuanita 665-4251
255 Mullikin Dianne R ◎ 666-6393
265★Dudder Annie
275★Walking Eagle Marilyn
280 Shelton M A ◎ 665-0659
285★Hartley Georganne L 665-1762
295 No Return
HARRISON ST INTERSECTS
LINCOLN ST INTERSECTS
315 Olin Lanny R ◎
320 Callaway Orville ◎ 665-9728
340 Brinser John H ◎ 665-6241
345 Vacant
360★Thompson Troy S 667-5563
370★Te Vardi Thos J 666-1071
N E HALSEY ST INTERSECTS

605
6TH ST NW (GRESHAM)—FROM 620 NW DAY DR WEST

ZIP CODE 97030
790 Vacant
840 Mishima Henry ◎ 666-1932
NW 5TH ST INTERSECTS
875 Froese Oscar T ◎ 665-9719
890 Morgan Ida M ◎ 665-7930
935★Heald Edgar H ◎ 667-1225
975 Klinger Carl E 665-7381
NW OVERLOOK AV INTERSECTS
1095 Gee John R ◎ 665-2934
1200 Savage Charles H ◎ 665-6493

606
6TH ST SE (GRESHAM)—FROM 550 SE HOGAN AV EAST

ZIP CODE 97030
1905 Vacant
1930 K R D R Pacific Broadcasting Corp 667-1230
SE FRANCIS AV INTERSECTS
2180 No Return
SE RENE AV INTERSECTS
SE BARNES AV INTERSECTS

610
SE CENTURION AV INTERSECTS
3805 Brott Wm C ◎
3825 Wise Edgar A 665-0283
3845 Moore Don L ◎ 666-2924
3850 Reif David C ◎ 665-8958
3870 Buss Steven R ◎ 666-1481
3895 Freuler John T ◎ 666-4248
SE BARNES AV INTERSECTS

300
6TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 5 SOUTH OF COLUMBIA ST

ZIP CODE 97060
131 Frank Loren P ◎ 666-5342
134 Louderback Larry F ◎ 666-4802
SE DORA ST INTERSECTS
204 Watterson David W 667-9038

603
6TH ST SW (GRESHAM)—FROM 520 SW WALTERS RD WEST

ZIP CODE 97030
295 Curran Thos J ◎ 665-7075
305 Huskey James E ◎ 667-9238
345 Eave Henry W ◎ 665-0550
360 Kipers Paul ◎ 665-0494
375 Mitchell Perry E ◎ 666-2074
395 Forster Fred V ◎ 661-5453
416 Kipers Paul J Jr ◎ 666-8682
425 Jones Robt E 665-9096
436 Cox Lillian E ◎ 667-1950
465 Fisher Gary L ◎ 666-8210
466 Cook Kenneth G ◎ 665-2237
485 C D C Construction Development Co 666-8720
Drtikol Stanley J 666-8728
486 Von Behren Werner ◎ 666-6233
495 Richmond J Michl ◎ 667-6285
496 Craddock Allan J ◎ 667-5887
506 Rice Paul B ◎ 667-0683
516 Rief Gary J ◎ 661-4522
536 Edgar Terrance L ◎ 666-7902
546 West Kenneth ◎
SW 6TH CT INTERSECTS
555 Galvin Oscar K ◎
566 Banker Nancy Mrs ◎
575 Relling Jack E ◎
576 Snowadzki Robt V ◎
586 Coila Wm J

609
7TH CT NE (GRESHAM)—FROM 700 NE KANE DR WEST IN A SEMI-CIR

ZIP CODE 97030
2617 Briggs Gary
2623 Bellefleur Timothy S ◎ 665-1479
2632 Palaoro Ronney L ◎ 661-2161
2647 Harguth Vern A ◎
2673 Fuller Gregory J ◎ 666-8433
2676 Meng James L ◎
2737 Murphy James F ◎ 666-9197
2742 Johnson James R
2753 Vacant
2766 Vacant
2782 Bartels Charles E 666-6629
2787 Watson Robt D ◎ 665-1813
NE VILLAGE SQUIRE AV INTERSECTS
2816 Watson Gerald W ◎ 667-8257
NE 7TH ST INTERSECTS
3055 Peterson Jana
3071 Remeiz Pearl
3075 No Return
3085★Russell Fredk K Jr 666-3838
3095★Staatz Jerry 665-8129
3110 Moore Thos P
3120 Nelson Jeffrey W
3130★Schroeder Karen 661-1792
3150 Mead Tim A
3155 Peterson Janet S
3160 Raich Ernest W
3165 No Return
3175 Mc Elreath Patk
3180 Smith Blair
3185 Ramirez Carlos
3190 No Return

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.E. Fargo, Portland Racquetball - Handball - Aerobics (503) 254-6556
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SE 7TH ST (G)—Contd
2405 Park K J 649-4385
2407 Vacant
2411 Phillips Cynthia H Mrs ◎
2415 No Return
2417 Murphy Shannon C
2421 No Return
2425 Vacant
2437 No Return
SE FLEMING AV INTERSECTS
2440 Caldwell Ottis G ◎
2450 Vacant
2471 Vacant
2485 Wellman
2490 Griffith Rick N ◎
2492 Martin A H ◎ 665-2998
2585 Mc Pherson Robt G ◎
2587 Vacant
SE LAMBERT CIRCLE INTERSECTS
SE HALE PL INTERSECTS
3106 Bolster Dennis L 661-6998
3112 Vacant
SE PARAOPA PL INTERSECTS
3206 Falzone Michl ◎ 666-4276
3209 Vacant
3214 Vacant
3217 Vacant
3235 No Return

610
SE PALOMA AV INTERESECTS
4006★Schmidt Brian W ◎
4009 Baley Wayne R ◎

300
7TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 6 SOUTH OF COLUMBIA ST

ZIP CODE 97060
145 Smith Betty Mrs
146 Huff Timothy A ◎ 665-9351
SE DORA ST INTERSECTS
207 Lewis Nora E Mrs ◎ 665-4753
221 Merris Richd 661-0161
242 Mitchell Melville L ◎ 665-3361

603
7TH ST SW (GRESHAM)—FROM 645 SW WALTERS RD WEST

ZIP CODE 97030
SW EASTMAN AV INTERSECTS
350 Sorensen Vernal T ◎ 665-9548
407 Larsen Alvin C ◎ 667-6250
410 Cooke Gary 667-4215
421 Lewis Jerry ◎ 667-8318
426 Bond Gerald C 665-0048
433 Bishop Clinton R 665-4782
SW NORMAN CT INTERSECTS
510★Munro Quentin D ◎ 667-5860
515 Payne Arnold T ◎ 666-4327
535 Snodgrass Jon D ◎
SW BLAINE PL INTERSECTS
555 Bennett Richd N ◎ 667-9428
575 Faatz Lawrence B ◎ 665-2428
SW SLERET AV INTERSECTS
615 Jansen David M 666-7039
618 Ott John R 666-5096
633 Frey R G
638 Markham Gary T ◎ 667-2856
SW 5TH CT INTERSECTS
643 Dahmen Lawrence L 667-4749
657 De Vito Ralph P ◎ 666-2607
671★Smith Ivan
674 Ha Hong ◎ 667-9957
688 Harper Harold M 667-8074
★Harper Kevin carp contr
SW 4TH ST INTERSECTS

642
4020★Evans Robt B ◎ 669-1282
SW NANCY AV INTERSECTS
4071★Yelton Keith A ◎ 669-0868
SW LINNEMAN CT INTERSECTS

300
7TH ST SW (TROUTDALE)—FROM BUXTON RD WEST 6 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Simons Frank T ◎ 665-5981
120 Barshaw Bardy D ◎
202 Hamme Michl C ◎ 667-7760
206 Vacant
212 Lewis Richd M ◎ 665-0510
218 Park Gerald R ◎ 667-3037
246 Stone Michl D 666-4210
300 Fagerstrom L 667-0935
301 Helen Althaus Park
302 Swope James D
304 Osburn Michl 667-2073
304a Whitney David L
306 Ruth Ernest L ◎ 665-5302

300
8TH CIR SW (TROUTDALE)—FROM 836 KINGS BYWAY EAST

ZIP CODE 97060
302 Mc Cann Larry I ◎ 666-6837
307 Wetherell Wm T ◎ 666-3387
315 Bartchy Lawrence ◎ 665-7445
320 No Return
323 Bush Charles S Jr ◎ 665-9705
SW KING'S BYWAY INTERSECTS
427 Johnson Gene R ◎ 667-7863
448 Savage R Scott ◎ 666-7929
452 Kalhar Michl J ◎ 666-8743
529 Olson J D
531 Ladwig Thos A ◎ 665-0923
536 Trayhorn Roy ◎ 667-3145
542★Torgrimson Keith A 665-4989
545 No Return

609
8TH CT NE (GRESHAM)—FROM 815 NE COCHRAN DR EAST

ZIP CODE 97030
2652 Thompson Steven A ◎
2665 Howe Robt ◎
2672 Smith Cath A Mrs ◎ 665-6642
2692 Boyer Paul R
2695 Wilson Martin H
2702 Hatcher Steven R ◎ 666-7973
2712 Brown Richd L ◎ 661-4093

604
8TH CT NW (GRESHAM)—FROM 885 NW BIRDSDALE AV WEST

ZIP CODE 97030
2290 Molina Robt L ◎ 666-1485
2295 Harrison Brian K
2305 Kaster Ken C ◎ 667-1244
2310 Pettinger Leon F ◎ 665-9628

606
8TH CT SE (GRESHAM)—FROM 875 SE FLEMING AV EAST

ZIP CODE 97030
2420 Barbo Jess III ◎ 665-7271
2422 Youngs Martin L ◎
2430 Hastings P A ◎
2432 Vacant
2440 Vacant
2442 Smith Carlin ◎
2445 No Return
2447 Button L M ◎

610
4309★Smith Carlos K ◎
4327 Vacant

642
8TH DR SW (GRESHAM)—FROM SW BIRDSDALE DR WEST 1 SOUTH OF W POWELL BLVD

ZIP CODE 97030
1510 No Return
1526 Connors Thos K ◎ 667-8078
1533 No Return
1544 Anderson Dennis ◎ 665-8628
1547 Lerwick David B ◎
★Lerwick Linda B Mrs mus tchr
1558 Peetz Teddy B ◎
1561 Lewis Jas E ◎ 667-1991
1572 Muth Walter R 667-5512
1590 Kennedy Franklin D ◎ 665-2732
1616★Mc Kenney John A 669-7484
1624 Hansen Robt F ◎ 667-9062
1639★Hershey Wm T ◎ 666-7983
1658 Mc Auliffe
1682 Shissler Jas F ◎ 661-3048
SW ORCHARD PL INTERSECTS
1730 Morgan Steven J ◎ 661-3425
1756 Cummings Wayne M ◎ 665-8205
1765★Shankle Cecil T
1774 Wallace David ◎ 661-7549
1792 Baltz Alexia L Mrs ◎ 666-3321
SW BELLA VISTA PL INTERSECTS
1811 Jessen Loren A ◎
1828 Vacant
1839★Rosenberg Robt
1846★Hilton Ellsworth D ◎ 661-2464
★Lowe Rick F meat whol
1880 Brady Larry G ◎ 661-7934
SW WILLOWBROOK AV INTERSECTS
1914★Ide David E ◎ 667-8369
1931 Wilson Ronald B theatrical consultant ◎ 666-4034
1938 Mc Clintick Michl E ◎ 667-4865
1956 Kersting Stan ◎ 665-8631
SW RIVERVIEW PL INTERSECTS
1972★Krause Myron L ◎ 667-6573
1979 Vacant
2024 Hyatt Jeffrey ◎ 666-6268
2025 Horn Braman C ◎ 666-4293
2040 Olson Alan B ◎ 666-1686
2047 Anderson Linda E ◎ 666-9651
2068 Davison Richd ◎ 666-3174
2071★Piovanelli David C ◎ 666-5908
SW 9TH PL INTERSECTS
SW 9TH CT IONTERSECTS
2086★Lindhe John E ◎
2143 Eichler Barry A ◎ 666-4744
2154 Doran Wm ◎ 666-7105
2165★Chunn Larry W 669-7894
2176 Montes Wayne J ◎ 665-9090
2190 Culmsee Thos E ◎ 667-4532
2212 Haugen Leroy J ◎ 665-3673
2228 Root James W ◎ 661-5873
2234 Earle Gary F ◎
SW 7TH CT INTERSECTS
2246 Diess James I ◎ 665-7856
2260 Bean Geo S ◎ 667-0538
SW LILLYBEN AV INTERSECTS
2273 Hunter Allan J ◎ 667-1764
2327 Martin Clifford F ◎ 666-5920
SW MAWCREST DR INTERSECTS

609
8TH PL NE (GRESHAM)—FROM 2290 NE 8TH ST WEST

ZIP CODE 97030
2205 Kemp Winifred ◎ 665-8933
2215 Balfour Bernard D ◎ 667-6055

600
8TH ST NE (GRESHAM)—FROM NE HOOD AV EAST 3 NORTH OF NE 5TH AV

ZIP CODE 97030
335 Gresham Transmission & Automotive repr 666-4880

BUXTON RD 1985

SE BUSH ST—Contd
13345★Brown Joyce D
13402 Ellingson Dorothy J Mrs ◎ 761-5714
13405★Allen Paul E ◎ 761-2422
13410 Lanning Joseph A ◎ 760-1519
13411 Mc Dowall Richd W ◎ 761-5785
13429★Holloway Philip 760-5279
13430★Hodgdon Ernest E ◎ 760-4037
13433 Brown Douglas S ◎ 761-7168
13447 Horning Margt L Mrs ◎ 761-3817
13450 O'Brien Michl S ◎ 761-0330
SE 136TH AV INTERSECTS

550
SE 136TH AV INTERSECTS
13614 Walters Danl 761-5836
13625★Hall Chas J ◎
13633 Hansen Richd G ◎ 761-7006
13636★Reis Skeets ◎ 761-3320
13654 Price Ray W ◎ 760-1859
13657 Skorepa Frank J ◎ 760-8997
13701 No Return
13710 Shoemaker Saml S ◎ 761-2258
13717 Vacant
13731★Long A R
13734 Wier Walter ◎
13736★Boyd Kevin 760-5141
13738★Meissner Kelly L 761-1298
13742★Ward M L 761-4310
13745 Oswald Dennis R ◎ 761-1961
13812★Eckert Ralph E
13815 Helmer Theo P 761-4403
13821★Cook Jon P ◎ 761-3296
13835 Jensen James M Jr ◎ 760-3204
13838 Brooks Lillie Mrs ◎ 761-3674
13844 Neidert Arnold H ◎ 761-0563
13901 Shultz Roy E ◎ 760-4182
13910 Lindholm Gene R ◎
13914★Rasmussen Mich J ◎ 761-8458
13918★Turton Wm J ◎ 761-8859
13922★Mak Stanley ◎ 761-3252
13926★Buchman Walt H ◎ 761-5644
13929 Buckle Bernie ◎ 760-8897
13930 Vacant
13945 No Return
14002 Davis Wesley P ◎ 761-2756
14005 Rosen James C ◎ 761-2539
14028 Anderson Appa L Mrs ◎ 761-6496
14029 Jones Walter D 761-5417
14030 Shay Mac S 760-6446
14032★Ile Vasile ◎ 761-1364
14034★Chow P 760-8292
14036★Ascher Charlene W 761-2592
14038★Pinkston Allen N ◎
14040 Trapp L
14045 Schutjer David Rev ◎ 761-4811
14110 Vacant
14111 Martin John E ◎ 761-6624
14115 Gessner Gerald ◎ 760-7172
14116★Bergeron Brian 761-1417
14120 Grieve Coreine G Mrs ◎ 760-5530
14120a★Buirgerson Mark
14129 Schumacher Brian ◎ 761-9606
14135 Mc Grew Richd W 760-1442
14147 Keyes Jerry
14201 No Return
14202 Zenner Carla M Mrs ◎
14216 Woerz Robt A 760-4541
14219 Furman Dale G ◎ 761-0245
Kerwood Hazel M Mrs 760-6873
14230 Harding Richd D ◎ 760-1796
14235 No Return
14244 Bryant Dennis 761-3646
14303 Jordan John M ◎
14314 Forbes Robt B ◎ 760-6471
14321 Chase A O ◎ 760-3127
14323★Balash Ron ◎ 761-8796
14334 Fitzpatrick Robt J ◎ 761-2706
14342 King John A ◎ 760-5838
14343★Bojanowski Anthony M
14346 Ross Kirk C 760-7727
14348 Chase Waldron E ◎ 761-8148
14350 Burton Danl R ◎ 760-4693
14361 Pabst Sherry M ◎
S E 144TH AV INTERSECTS
14400 Giesbrecht Gary A ◎ 761-8520
14410 Eddlemon Wilbur M ◎ 761-8046
14508 Chamberlain Glenn R ◎
14509 Thompson June M ◎
14525 Smithee Alvin A ◎ 761-9230
14530 Oja Pentti ◎
14545 Katzberg La Mar W ◎ 761-1971
14556 Hall Marlin D ◎
14619 Pernar Anthony V ◎ 761-8397
14620 Wilson Marion E 760-5135
14635 Siron Hartzel P ◎ 761-8346
14636 Osmundson David G ◎ 760-7220
14640 Foster Gregory G 760-4120
14644 Gragg David 760-5645
14648 Brown James G 760-1547
14652 Connell James ◎
14704★Gillmore Richd H 761-1389
14707 Hawkins James W ◎ 761-2432
14715 Mc Williams L W 761-1847
14723 Maier Donald H Rev ◎ 761-8317
14724 Perala Wm A ◎ 761-8376
14744 Whitford Donald R ◎ 761-8241
14747 Wood Lawrence W ◎ 760-4079
SE 148TH AV INTERSECTS
14806 Weister Norman L ◎ 760-4271
14813 No Return
14819 Soulagnet Joseph J ◎ 760-8668
14820 Rabe Rick A ◎ 760-5966
SE 149TH AV INTERSECTS
SE 150TH AV INTERSECTS
15020 Klinski Lee N ◎ 761-5508
15021 Donovan Gary L ◎ 761-0945
15040 Albrich Richd E ◎ 761-5704
15041★Beal Ken L ◎
15051 Murphy James P ◎ 761-1406
15056 Lockner Dick exavating contr ◎ 761-8257
SE 151ST AV INTERSECTS
SE 154TH AV INTERSECTS
15421 Bledsoe Chas E 761-1889
15426 Dixon James K ◎ 761-8175
15435 Landolt Randy A ◎ 760-4523
15440 Walker Barbara A Mrs ◎ 761-1904
15452 Matosin Mirko ◎ 760-7452
15453 Brittain Charles C ◎ 761-8783
15502 Mc Ghee Marian F Mrs ◎ 761-1422
15505 Nicholson Max L ◎ 760-6351
15521 Jenson Paul T ◎ 761-6809
15524 Allie Thomas ◎
15531 Vacant
15534 Vacant
15605★Andrus Joe B 760-8077
15610 Vacant

540
SE 165TH AV INTERSECTS
16504 Boyd Helen B Mrs
16508 Searls Ron G 667-1240
16512★Blankenship Charlotte
16516 Searls Steve D
16520 Vacant
16524★Columbo Marie L
16527 Mc Guire John C ◎ 665-8766
16528 Roost Louis W
16532★Anderson
SE 166TH AV INTERSECTS
16610 Parsons
16620 Ackers Steve B 666-8167
16627 Ruppel W Pat ◎ 666-5680
16642 No Return
SE 166TH CT BEGINS
SE 166TH PL INTERSECTS
16675 Duarte Gaynet E Mrs ◎
16680 Hughes Michelle ◎
16691 Vacant
16696★Villafane Victoria M
S E 167TH AV INTERSECTS
17002 Carmony Kenneth I ◎ 665-4801
17015 Boettcher Fred A ◎ 666-3984
17016 Wiemer Ted ◎ 666-9542
17022 Vacant
17027 Forkner James C Jr ◎ 666-6379
17035 Hefeneader Jim W ◎ 665-1375
17038★Collazo Al 669-7766
17103 Washburn Gary A ◎ 666-1467
17106 Bowman Gary W ◎ 666-7692
17111 Henderson Saml B ◎ 666-4247
17118 Fitz
17126 Barnhill Harold E ◎ 666-2058

611
BUTLER RD SW (GRESHAM)—FROM SE 190TH AV EAST 1 SOUTH OF SW 33D ST

ZIP CODE 97030
NUMBERED IRREGULARLY
19208 Byer Larry B ◎ 665-6652
bx164 No Return
bx156 Vacant
2650 Vacant
19796 Vacant
2524 Weaver Richd B ◎ 667-5571
2420 Mc Cracken Mark M ◎ 665-5804
2212 Clinton Ralph N ◎ 665-3922
SW RODLUN RD INTERSECTS
2920 Townsend Walter 661-1868
2111 Eakins Marlon F ◎ 665-6495
20405★Holland Ralph
2102 Hallowell Geo 665-2924
1926 Helton Bill W ◎ 665-1320
2060 Vacant
1905 Holland Keith
1721 Pokorny Geo W ◎ 665-8219
1710 Mitchell John C ◎ 665-4876

300
BUXTON RD (TROUTDALE)—FROM COLUMBIA ST SOUTH 1 EAST OF SW KENDALL ST

ZIP CODE 97060
127 Wojciak
146 Coultard Janet A Mrs
SE 2D ST INTERSECTS
223 Troutdale Postal Serv 665-3898
224★Beautler G D
SE 3D ST INTERSECTS
SE 4TH ST INTERSECTS
412 Dunn V L ◎ 665-2306
420 Taylor Dave A ◎ 665-7266
425 No Return
SE 5TH ST INTERSECTS
525 Van Meter Lynette M Mrs ◎ 667-1172
Flexible Business Systems conslts 669-0606
★Eddy Ken A ◎ 661-8774
526★Farr Greg E
528 Ziobron J Y 661-5685
529 Cheney Michl D ◎ 667-2345
532★Blakeman Diane K 669-7220
533★Dietrich Mike 666-4915
536 Vacant
537 Murphy James R ◎ 666-8014
538 No Return
SE 6TH ST INTERSECTS
608 Main Terry M ◎ 667-7009
619 Stoeckel Alf P ◎ 665-0026
623 Nesbit Wm J Jr ◎ 665-0423
641 Evans Jack S ◎ 665-2200
SE 7TH ST INTERSECTS
704★Harrison John A ◎ 667-6755
746 Goad Lloyd A ◎
747 No Return
SE 8TH ST INTERSECTS
SW MARTINE CT INTERSECTS
803 Britton Sid A ◎ 665-8347
823 Troutdale Conservative Bapt Church (Abbott Annex)
921 Troutdale Conservative Baptist Church 666-5617
1001 Peterson Ethel K Mrs ◎ 665-3806
1047★Brown Massie O

566
BYBEE BLVD SE —FROM 6934 SE 48TH AV EAST

ZIP CODE 97206
4806★Gilgin Glen A 777-6115
4816 Denning John 777-6285
4816½★Deinklin Thos 774-0266
4840 Naylor Herbert A ◎ 774-2541
4848 Blanton Merle M ◎ 775-0104
4851★Sullivan Robt 774-2446
4900 Vacant
4911★Dooley Wm ◎ 774-5587
4919 Larsen Warner M ◎ 774-6371
4924 No Return
4927★Erickson Herb
4934 Hagen Swen ◎ 774-2591
4943 Thompson Robt E ◎ 775-5923
4951★Shafer Helen ◎ 774-3114
4963 Dusty's jan serv 775-5220
Knapp Manley W ◎ 775-5220
SE 50TH AV INTERSECTS
5004★Ray Rhonda 775-0610
5014 Cole Merton C ◎ 774-1488
5024★Abrahams Leo
5035 No Return
5036 Wingfield Deborah J Mrs 775-2708
5044★Banwart Robt ◎ 775-8007
5047★Conrad J M 771-5658
5059★Higgins Robt

SE DIVISION ST—Contd
17★Ellwood Robt
18★Jenkins Joyce
19★Ader Elenore 760-1506
20★Farmer Debbie
Jesus Christ Latter Day Saints (Addl Sp)
22★Sokol Stanley 761-7452
23★Warren Peggy
24★Trokel Anna Mrs
25★Rhodes Eloise
26★Painter Ronald
27★Adar Linda 761-5426
28★Richardson Terry 761-0334
29★Lyons Glenda 761-5962
30★Kilminster Sherri
STREET CONTINUED
17930 Steeck Roger 761-4041
17930½ Vacant
18010 Kendall Gerald D
18029 Vacant
18110 Rockwood Animal Hospital 665-1194
18145 Leathers Oil Co 666-8198

512
DIVISION ST SE (GRESHAM)—FROM SE 182D AV EAST 1 SOUTH OF SE CARUTHERS ST

ZIP CODE 97030
18222 Rockwood Mobil gas sta 665-6739
18236 Plaid Pantry No 34 gro 666-5341
18238 Bill's Beef House ret meats 665-9013
18310 Metzger Thos A ◎ 666-2443
18316 Bryant Charles ◎ 667-0202
18330 Lee's Garden Chinese Restr 661-1604
18400 A & A Vacuum And Sewing Center ret sls & serv 667-3399
18415 Leong's American Chinese Buffet restr 665-3854
18437 Vincent T C Excavating contrs 665-9371
Vincent Timothy C ◎ 665-9371
18440 Shelly Donald E ◎ 665-2647
SE 185TH AV INTERSECTS
SE 186TH CT INTERSECTS
18623 Hildenbrand Harry A ◎ 665-1063
18630 Covenant Presbyterian Church 665-5775
18635 Tanaka K 665-0995
18637★Stokes Allen M
18639★Wood Theo B 665-1665
18641 Van Veen Martinus J 661-4065
18643 Schmucks Elnora H Mrs 661-0977
18645 No Return
SE 187TH PL INTERSECTS
18707 Bray Ronald E 666-1701
18721★Benckman Michl P
18730 Whitten Linda J
18737 Bonazza Marita L
18741★Henri Robt C 665-4082
18756 Thomas Bette R Mrs ◎ 665-3367
18805 Kato Jos T ◎ 665-2055
18810 Falkenstein Kath J ◎
18822 Hubert Charles ◎ 665-6349
18829 Coelyn Robt ◎ 665-9867
18908 Stickel Raymond G ◎
18909★Willett Margt E adult foster care ◎ 665-5375
SE 190TH AV INTERSECTS
19008 Starr Homer L ◎ 665-2335
19025 Bruner Donna Mrs
19026 Johnson Dee C nurserymn
19027 Mc Intyre Allen
19034 Bottger Frances E Mrs 667-8401
19042★Holmberg R
19045 Vacant
19047 Vacant
19050★Davis Chas J 667-5874
19059 Four Seasons Hot Tubs hourly rentals 666-3411
19081 Huxtable Ross P ◎ 667-6470
19139 Gabbey Clifford F ◎ 665-1844
SE 195TH AV INTERSECTS
19201 Cascade Athletic Club 665-4142

300
DOOLITTLE CT (TROUTDALE) FROM 650 SW CHERRY PARK RD SOUTH

ZIP CODE 97060
1119 Brox Terry M 666-4892
1121 Hanson Gregory H 666-9216
1124 Gabriel Sidney J ◎ 665-6615
1136 Culver Steven A ◎ 667-9691
1138 Steffon Ronald L 667-7883

300-A
DORA CT SE (TROUTDALE)—FROM SE 21ST ST NORTH

ZIP CODE 97060
2018 Morgan Gary W ◎ 661-6419
2023 Dedrickson Michl T
2024 Peterson Hollis J ◎ 666-7036
2036 Oliver Joseph R 661-0236
2048 Weaver Allen C ◎ 661-4961
SE 21ST ST INTERSECTS
3702 Driver John F ◎ 665-4676
3707 No Return
3710 Mc Cord Shannon G ◎ 661-6353
3715 Coigny John U ◎ 667-4038
3722 Silberman David P ◎ 665-6403
3727 No Return
3735 No Return
3738 Kraus Kenneth W ◎ 666-9639
3812 No Return
3815 Distefano Jody
3820 Calhoun Robt ◎ 661-5583
3825 Hunt Charles J ◎ 661-2067
3831 Larson Vince ◎ 667-2545
3834 La Rock Jack J 665-9209
3909 Hileman Preston E ◎ 666-5387
3910 No Return
3927 Westin Richd V ◎ 667-2381
SE 40TH AV INTERSECTS

300
DORA ST SE (TROUTDALE)—FROM E COLUMBIA ST SOUTH 1 EAST OF BUXTON RD

ZIP CODE 97060
130 Karen's Kottage Of Beauty 661-7254
141 Oregon Bank The 665-9131
SE 2D ST INTERSECTS
201 Burnett Gary G dentist 665-3416
202 Masonic Hall 665-6410
Fairview Lodge No 92 (A F & A M)
Order Of Rainbow Girls (Assembly No 78)
Order Of Eastern Star (Chapter No 80)
225 Bales Roy L ◎ 661-7451
234a Taylor Thos M 667-2289
234b Benjamin Wm E
235 Golde
243 Minner Glen R ◎ 667-3786
246 Sutherland
No Return
SE 3D ST INTERSECTS
327 Hebner Thos E ◎ 667-7065
349 Hayes Kenneth L ◎
SE 4TH ST INTERSECTS
SE 5TH ST INTERSECTS
531 Schuberg Thos S ◎ 661-1379
534 Jackson Maynard D ◎
SE 6TH ST INTERSECTS
SE 7TH ST INTERSECTS
708 No Return
710 Clark Jeffrey L ◎ 661-5405
718 Monroe Steven W ◎ 66-2738
746 Cardew Kary Mrs

300-A
DOUGLASS CT SE (TROUTDALE) FROM 803 SE SWEETBRIAR LA SOUTH

ZIP CODE 97060
3717 Sherwood Ronald G ◎ 666-3002
3718 No Return
3720 Monarch Building Maintenance 667-8895
Hickman David J ◎ 667-3372
3723 Hamburg James D ◎ 666-7220
3812 Oudeans Terry L ◎ 665-0993
3815 Mach Robt ◎
3824 Keller Joseph A ◎ 665-2700
3833 Whitehead Gary 666-2909
3903★Maddox Robt ◎
3906 Jones Frank A ◎ 661-2089
3914 Brooks Ben D ◎
3917 Brice Keith G ◎ 661-2382
3922 White Lloyd E ◎ 666-2212

603
DOWSETT LA SE (GRESHAM)—FROM 860 SE ROBERTS AV EAST

ZIP CODE 97030
620 Flanagin Richd J ◎ 665-3975
650 Hibbard Patk B ◎ 666-2092
655 Rinker Robt F ◎ 665-3415
923 Cummings Ruth 661-7797
925 Vacant
935★Anderson Richd ◎ 665-5294

554
DUKE ST SE —FROM 145TH ST

ZIP CODE 97236
13112★Mather Wm ◎ 761-4093
13120 Vacant
13134 Vacant
13148★Wiese John M 760-7453
13149★Duran Barry L ◎ 761-6488
13153★Smith Wm ◎ 760-2875

300
DUNBAR PL SW (TROUTDALE) FROM 2110 SW 24TH ST NORTH

ZIP CODE 97060
2223 No Return
2226 Grimaldi Vincent ◎ 661-3928
2235 Yoshizumi Jon 666-9681
2238★Carlson Leonard 666-5746
2331 Grimaldi Jerry L ◎ 665-8521
2320 Bolesta Richd E ◎ 665-6353
2325 Vacant
2343 Collins Ralph A 661-1287

642
DUNIWAY AV SW (GRESHAM) FROM SW 3D ST SOUTH 1 EAST OF SW NANCY AV

ZIP CODE 97030
350 Kernspeck Werner B ◎ 667-5147
365 Lacin Felix L ◎ 667-0866
395 Ross Gregory E ◎ 661-7745
415 Hankins Kenneth C ◎ 667-8148
SW 4TH ST INTERSECTS

606
EAGLE AV SE (GRESHAM)—FROM 27143 SE CHASE RD SOUTH

ZIP CODE 97030
SE SALQUIST RD INTERSECTS
1910 Vacant
1913★Andersen Jas L ◎ 663-4140
1926 Vacant
1927 Howland Richd I ◎
1933 Harrison Ken ◎ 663-3526
1934 Gianoli Chas L ◎ 663-2213
2010 Clark Steph E ◎
2015 Murray Wayne F ◎ 663-4508
2021 Shields Tina Mrs ◎
2022 Russnogle Robt L ◎ 663-1212
2033 Clarry Keith ◎
2105★Sondenaa Thomas W ◎
2106 Vacant
2112 Vacant
2117 Vacant
2124 Vacant
2132 Ray David R ◎
SE 22D ST INTERSECTS
2533 Seibel Doug P ◎ 663-5708
2548 Snider Wm R ◎
2567 Sidebottom Joseph ◎ 663-6871
2590 Kerbaugh Vicki L Mrs ◎ 663-3816
2653 Lawson Jerry ◎ 663-5434
SE 27TH ST INERSECTS
2737 Reiley Michl T ◎ 663-4430
2787 Fitzgerald John ◎ 663-5112
2827 Cornett Harlan ◎ 663-5142

605
EARL AV NW (GRESHAM)—FROM NW 8TH ST NORTH 1 WEST OF N MAIN AV

ZIP CODE 97030
817 Hartle Jas H ◎ 666-3708
820 No Return
833 Vichas Paul G
835 No Return

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2148 N.E. UNION AV. TEL. 281-1112

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262

SE KELLY ST—Contd
12422 Vander Kellen Jerry
12428 Forney John S ◎ 761-3579
12437 Armstrong Phil ◎ 761-3799
12448 Roles Robt R ◎ 761-2979
12449 Schneider Adam V ◎ 760-3977
12505★Fouts Jas ◎ 761-1378
12506 Grantz Donald W ◎ 761-3354
12507 Mc Keown John F ◎ 761-2441
12533 Wright Delores Mrs ◎
12534 Proudfoot Edw H ◎ 761-1622
12547 Dostert Michl ◎ 761-6068
12550 Cik Joseph A furn repr ◎ 760-1388
12560 Kelly Randall D
12600 Shelton Kim M
12605 Mitchell Perry E ◎ 761-7731
12641 Hanna John W ◎ 761-2312
12648 Fish Esther N Mrs ◎ 761-3811
12649 Yost Leslie ◎ 761-3220

538
SE 152D AV INTERSECTS
15202 Rotramel Wm L ◎ 761-4571
15207 Popp Robt L ◎ 761-7871
15224 Miller Theo W 761-7562
15225 Menashe Albert L ◎ 761-8801
15236 Crick R Joe ◎ 761-4515
15239 Emra John W ◎ 761-2138
SE 153D AV INTERSECTS
SE 158TH AV INTERSECTS
15805 Powell E L 761-5320
15806 Dove Richd E ◎ 760-5361
15807 Dunlap Esther ◎
15812 Davis Shawn ◎ 760-5475
15817 Nelson Dwight ◎ 760-3638
15822 Sundy Inez M Mrs ◎ 761-5997
15833 Reu Alvin J ◎
15905 Iglesias Carlos I
SE 160TH AV INTERSECTS
16013 Knabb T A 761-4541
16024 Schultz Rena Mrs ◎ 761-7904
16036 Boarts Ruth Mrs ◎
16037 Wood Charles E
16050 Edenburn Glen D ◎ 761-4427
SE 161ST AV INTERSECTS
16102 Dorney F Joe ◎
16107 Olivier Steve P ◎ 760-6532
16110★Malcolm Barrie E ◎ 761-8498
SE 162D AV INTERSECTS

540
SE 167TH AV INTERSECTS
16723 Krohn Kelly K ◎ 761-0570
16735 Strong Jim A ◎ 760-1429
16740 Osbourn Ervin T ◎
16801 Morris Roland M ◎ 761-5092
16808 Alexander Arth F ◎ 760-2013
16815 Leonetti Wilfred ◎ 761-5244
16818 Pitassi Robt A ◎ 761-5144
16828 Fry Galen R ◎ 761-1758
16838★Braich M S 760-2330
SE 169TH AV INTERSECTS
16912 Gluth Loren E ◎ 761-4785
16930★Stratton Daniel C ◎ 761-2855
16939★Mc Comb Matt L ◎
SE 170TH AV INTERSECTS
17009 Smith Ronald L ◎ 761-6098
17010 Womack Lewis A ◎ 760-8440
17027 Hamilton Robt L ◎ 761-4240
17030 Hall Robt E ◎ 761-4497
17039 Mc Vitty Frank Jr ◎ 761-6943
17045 Falk Royal W ◎ 761-6156
17046 Mangelsdorf John C ◎ 761-9283
17104 Blunk Melvin W ◎ 761-6278
17107 Van Arsdall Clinton R ◎ 761-4328
17114 Charley Jack T ◎ 254-6418
17121 Mc Guire Kingston L ◎ 761-5159
17126 Coon Wm L ◎ 761-6146
17136 Hetherington Webster W ◎ 761-6188
17137 Devaney Robt T ◎ 761-6000
17148 Eurick Robt L ◎ 761-4077
SE 171ST DR INTERSECTS
17208 Dunford Douglas W ◎ 761-5575
17221 Kirkpatrick Curtis B ◎ 761-8613
17222 Mc Lain Donald ◎ 761-6288

542
SE 177TH AV INTERSECTS
17712★Bowman Maria 761-1070
17715 La Plante Clay F ◎ 761-2651
17727 Madill James R ◎ 761-4758
17733 Kuhnau Quentin C ◎ 761-4819
SE 178TH AV INTERSECTS
17807 Goetz Richd A ◎ 760-5302
17810 Pyle Warren C ◎ 761-5996
17821 Gallo Michl P ◎ 760-1622
17830 Vacant
17833 Kelly Joseph F ◎ 761-6402
SE 179TH AV INTERSECTS
17901 Lane Hugh T ◎ 761-5037
17915★Johnson Leslie 760-5325
17924 Agner Harold K ◎ 761-4137
SE 180TH AV INTERSECTS
18002★Freita Dennis P ◎ 760-4181
18014 Wittren Theo ◎ 761-4884
18023 Qual Sharon D Mrs 760-8313
18030★Bachman Randy 760-3672
18037 Riewer Theo H ◎ 761-4902
18049 Kartevold Matilda E Mrs ◎ 665-8882
18050 Hopkins Floyd E ◎ 665-0644
SE 180TH AV INTERSECTS

300
KENDALL CT SW (TROUTDALE) FROM 231 CHERRY PARK RD SOUTH

ZIP CODE 97060
1103 Rogers Danl R slsmn ◎ 665-3394
1104★Schroder Lawrence F ◎ 665-4115
1105 Barber Randy 667-2878
1106 Anderson David D ◎ 665-8213
1107 No Return
1108 Burrough Ralph R ◎ 665-8419
1109★Eebel James E ◎ 661-6559
1200 Smith Kenneth E ◎ 666-8912
1202 Murahashi Roy U ◎ 665-9779
1203★Bozarth Jack R 661-2294
1204 Eblen Clarence L ◎ 661-1366
1205 Malone Michl E ◎ 667-5570
1207 Kaiser Frank T ◎ 665-0637

300
KIBLING AV SE (TROUTDALE) FROM 414 SE 13TH ST SOUTH

ZIP CODE 97060
1202 Winegar Aaron B ◎ 665-9598
1203★Bischoff J D 665-0883
1214★Allen Bart R ◎ 661-5975
1215 Coursey Randy L 666-1912
1223 Bourgo James 661-1095
1226 Michael Robt D ◎ 667-5444
1234 Taylor Lowell E ◎ 667-5042
1235 Bennett David A ◎ 666-1024
SE 13TH AV INTERSECTS
1316★Stefani Robt C
SE BEAVER CREEK LA INTERSECTS
2217★Clair James B 667-9983
2223★Carter Allan ◎ 661-4740
2228 Calvi Jeffrey S ◎ 667-9313
2239 Engstrom Matthew J ◎ 667-3215
2303 Bergman David H ◎ 661-6211
2314 Honke Thos A
2315 No Return
2322 Helzer Gary W 666-5340
2323 No Return
2336 Bitton Roger L ◎ 665-5384
2339 Pryse Thos J ◎ 665-0422
SE BEAVER CREEK LA INTERSECTS

300-A
KIBLING CT SE (TROUTDALE) FROM 219 SE 40TH AV SOUTH

ZIP CODE 97060
4002 No Return
4008 Warren Kent 666-8608
4012 Vacant
4015 Goetz Geo W ◎ 661-2852
4016 No Return
4020 Vacant
4024 Goodrich Charles ◎ 661-3744
4027 Black David L ◎ 667-4908
4030★Pierce Joseph ◎ 667-7753
4034★Luster Dale
4039 Hoover Frank P 666-5286
4041 Pattison Steve J ◎ 665-6671

300
KIBLING ST SE (TROUTDALE) FROM E COLUMBIA ST SOUTH 3 EAST OF BUXTON RD

ZIP CODE 97060
104 Troutdale City Hall 665-5175
Troutdale City Admn
Troutdale City Mayor
Troutdale City Commissioners
Troutdale City Recorder
City Community Servs Dept
Troutdale Historical Society organ-meets
2D ST INTERSECTS
SE 3D ST INTERSECTS
324 Mc Ewen Ron ◎ 666-7201
342 Vacant
SE 4TH ST INTERSECTS
408 Wright Eliz V Mrs ◎ 665-0288
423 Scott Karole E ◎ 665-8077
446 Kempe Curtis L ◎ 665-0836

505
KILLINGSWORTH ST NE —FROM 6010 NE 60TH AV EAST

501
4801★Sek Man 249-0643
4803★Tea Keatchhau 287-7085
4807★Quach Nyuan S 282-9198
4810 Minton Kenneth C ◎ 287-5041
4813 Watkins Mike 287-8911
4815 Francisco Letha M Mrs ◎ 281-7872
4835 Engblom Allen W ◎ 288-8607
4849 Apartments
A Throckmorton Mildred A 249-8419
B Byers James F 282-1381
C Cameron Maxine M Mrs 287-2351
D Sharp Dorothy
NE 49TH AV INTERSECTS
4900 No Return
4901 Vacant
4903 Baltzell Clare 287-1691
4905 Vacant
4907 No Return
4919 Apartments
1★Clark L M 288-9544
3★Einspar Mark 287-6502
2★Pereira Abel J
4921 Apartments
2★Watson A Zealine 282-4065
3★Preston Wm 284-8760
NE 50TH AV INTERSECTS
5000 Lind-Fagenstrom genl constn 288-0233
SE STEPHENS ST INTERSECTS
5005★Grierson Lawrence B 281-6956
5009 No Return
5015 No Return
5044 Santiago Leroy K 281-6490
5050 Char-Ray Apartments 281-5340
1 Miller Mary L
2★Payne Shelly 287-5197
3 Vacant
4★Pallard Dorthy
5★Weidner Lewis F 281-5340
6★Halford Jill S 281-0033
7★Moon Lisa
8★Densen Glennis 249-3797
9★Namapele Amos 284-7335
10★James Jacqueline 249-0179
11★Hart Terry
12★Ruben K 281-6237
14★Wojtyla Stan 282-6602
15★Nygaard Larry W 284-1567

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608-A
PAROPA CT NE (GRESHAM)—FROM 3098 NE HALE PL SOUTH IN SEMI-CIR

ZIP CODE 97030
1400 Beles Pete 667-0536
1407 Vacant
1408 Swales Clifford J 665-1786
1411 Pino Albert 666-6716
1416 Cattanack Victor
1417 White Danl A Rev 665-0312
1421 Diamond J
1424 Vacant
1429 Vacant
1430 Vacant
1433 Vacant
1436 Lewis Harold K ◎ 666-1647
1437 Cramer Thos A
1440 Weisdorfer L 667-4680
1441 Vacant
1447 Farr Tammi L 666-9404
1448 Johnson Susan
1450 Ziegle Jeff M 666-9614
1451★Wolfe Timothy A ◎ 665-8061
1452 Miller Bruce J 661-2456
1455 Mc Nair Marcella L 667-8292
1458 Vacant
1460 Ramberg Greg 666-8291
1461★Alcalde Albert
1469 Carlin Joy A Mrs 667-9442
1470★Dodd Thos A 661-5502
1473 Mc Innis Francis © 665-5203
1474 Ring Gladys 667-0847
1476 Bohnenstingel Mary-Ann ◎
1478 Vacant
1479 Grant Carol A ◎ 661-7871
1480 Joy Gordon C
1481 Vacant
1483★Pahrans Laurie A ◎
1485 Bodine F D 661-4819
1486 Long Dwight S ◎ 661-0264
1487 Bailey Carolyn 667-0476
1488★Lang Lawrence M ◎
1489★Snaric Sylvia A
1490 Baumgarden Gary D ◎ 666-1031
1500 Poe Howard R ◎ 661-1980
1510 Vacant
1516 Robanske Oscar T ◎ 667-1933
1520★Summers Joyce S ◎ 666-8064
1530 Vacant
1536 Mc Govern A ◎ 665-9801
1538 Hann Cal
1540 Vacant

609
PAROPA CT SE (GRESHAM)—FROM 3201 SE 2D ST SOUTH

ZIP CODE 97030
215 Parnell Gordon ◎ 661-6772
220 Koch Bruce D
222★Sommers Betty J Mrs 665-4161
231 Morsman Raymond O Jr 661-6302
240 Mc Junkin Robt L ◎ 667-4866
243★Stewart Steven A 661-7436
246 Harrison John 666-6551
255★Jacobson Chris 665-8778
301 Chamberlain Hilda ◎ 667-8405
302 Newman Barney J ◎ 667-5502
325 Vacant
326 Johnson Wade F 666-7765

609
PAROPA PL SE (GRESHAM)—FROM 3259 SE 5TH ST SOUTH

ZIP CODE 97030
515 Hendrix Denise
520 Vacant
533 Rucker Robin
546★Rathman Wayne
559 Massey B 666-2153
562 Schleichardt Alvin L 665-1885
576★Lamberton Frank M 665-0519
580 Vacant

606
637 Devere Robert ◎ 661-4124
649 No Return

609
PAROPA WY NE (GRESHAM)—FROM 335 NE KANE DR WEST AND NORTH

ZIP CODE 97030
315 Wach Stanley L ◎ 667-2328
320 Wadsworth Brad ◎ 666-3625
325 Brown
360 Kissell Lester E ◎ 666-4085
NE HALE DR INTERSECTS
380 Anderson Robt G ◎ 667-3275
390 Vacant
395 No Return
399 Mills Gerald F ◎ 667-3903
N E ROBIN CT INTERSECTS
425★Whittaker Michl A ◎ 665-1221
430 No Return
445 Klausman Wm J ◎ 667-0720
450★Meyers Andrew M 666-9156
470 Hague Duane K ◎
490 Miller Robt D ◎

300-A
PELTON AV SE (TROUTDALE) FROM 3155 SE EVANS AV SOUTH

ZIP CODE 97060
3125 Griewe Wm J 667-7790
3140 Graham David A ◎ 667-0597
3160 Vacant
3180 Bennett John D ◎ 667-0355
3230 Gilliam Dennis P ◎ 667-4332
3255★Skelton Chas R ◎ 661-6703
3260★Green Lawrence H 669-1210
3265 Rulifson Gary I ◎ 665-2767
3290 Drake C Wayne ◎ 666-8335
3295 Frost Jack D 667-6593
3330 Hawthorne Janette Mrs ◎ 666-2647
3335 Wilson
3355 Zapel Michl P ◎ 666-3353
3360 Arnold Gary D ◎
3370★Dalrymble Rick R ◎ 665-6345
3375 Thompson J P
3380 Kowalski Kenneth W 665-1812
3390 Rimkus
3395 Lemieux Thos G ◎ 665-3222
SE 34TH CIR INTERSECTS
3400★Burdicks Donald L 661-4876
3450★Hayden John 667-6967
3470 Albert Mitch ◎ 667-9543
3475 Dixson Jeffrey R ◎
SE 35TH CIR INTERSECTS
3500 De Lano Margt F ◎ 665-8593
3530 Iszler Marlan M ◎ 661-0455
3550 Webb Richd M ◎ 661-2318
3575 Vacant
3580 Strous Larry A ◎ 661-2499
3595 Dunn
SW 36TH ST INTERSECTS
3600 Taylor Paul D ◎ 666-7057
3655 George Craig B ◎ 666-3903
3680 Baker Fred K ◎
3695 Randall Warren R ◎ 661-1545
3700 Huish Adlin L ◎
3725 Kanas Steven P ◎
3730 Stanley Genevieve D Mrs © 667-4346
3750★Polson Gary F ◎ 665-7851
3755 Larsen David W ◎ 666-7789
3770 Mendenhall Seth C 661-1468
3775 Schmelzer H A ◎ 667-5101
3795 Herold Terry L 665-4047
3800 Ward Thos G 667-9578
3820 No Return
3825★Smith Mark
3835 Rinehart John F ◎
3840 Turner Earl W 667-2656
3860 Newsom Jack W 667-3663
3880 Vacant
3895 Vacant
SE PELTON CIR INTERSECTS
3900★Bates Douglas G ◎ 667-3469
SE SWEETBRIAR LA INTERSECTS

300-A
PELTON CIR SE (TROUTDALE) FROM 3880 SE PELTON AV WEST

ZIP CODE 97060
3845★Autry Allen D 666-3073
3855 Nored Dean L ◎ 667-6021
3875 Saperstein Dell S ◎ 665-7587
SE PELTON CT INTERSECTS

300
PELTON CT SE (TROUTDALE)—FROM 1213 SE 26TH ST NORTH

ZIP CODE 97060
2530 No Return
2542★Casey Steven W ◎ 666-6017
2546 Ray John D ◎ 667-5955
2553 Campbell Gale ◎ 667-2095
2557 Cronk Ronald H ◎ 667-7959
2613 Buffum Carol ◎ 667-0504
2625 Schaefer Rick A © 661-2125

300
PENQUIN PL SE (TROUTDALE) FROM 431 SE 5TH ST SOUTH

ZIP CODE 97060
410 Harrison Thos W ◎ 661-3587
420 Smith Tyler 661-2447
430 Corbett Nelson ◎ 667-4633

542
PERSHING CT SE (GRESHAM) FROM SE 180TH AV EAST 1 NORTH OF SE HAIG DR

ZIP CODE 97030
18010 Mc Laughlin James C ◎ 761-4088
18011 Robertsons
18029 Bitney Robt B ◎ 760-4740
18030 Kuhnau
18040 Kistner Donald R ◎ 665-2279
18041 Michael Richd ◎ 665-2776
18044★O'Brien Carl R ◎ 665-6587

602
PHOEBE CT SE (GRESHAM)—FROM 2243 SE CLEVELAND AV WEST IN A SEMI-CIR

ZIP CODE 97030
828 Vacant
831 Morgan Marvin E ◎ 667-1744
846 Syron Larry A ◎ 665-8710
863 Callicotte Joyce C ◎ 666-4634
884 Smith Harold V ◎ 667-1242
903 Bowling James ◎ 666-5072
912 Witherow Wm L ◎
929 Mc Intire Donald ◎ 666-4451
944 Rausbeck John L ◎ 667-4552
976 Pool Frank E Jr ◎ 665-7250

642
PHYLLIS CT NW (GRESHAM)—FROM NW 1ST ST NORTH 1 EAST OF NW GIESE AV IN A SEMI CIR

ZIP CODE 97030
35★Jepson Wilbur W pntr ◎ 665-2718
40 Harris Gene E ◎ 667-6225
75 Ludwig Wallace W ◎ 667-3375
90 Hoard Terry G 661-3388
102 Cuniff Rex E ◎ 665-2780
105 Griffith Rosella V Mrs ◎ 667-5364
Scarborough Jennie D Mrs ◎ 667-5364
122★Arno Doug D ◎
125★Imfeld Larry M ◎ 665-5476
152★Hanson Jas M ◎ 666-3844
155 Johnson Robt F ◎ 665-5038

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SE 5TH ST (G)—Contd
644★White Paul D 665-9419
676★Sappington Alan L 666-7904
SE LINDEN AV INTERSECTS
705 Lapp Ralph E ◎
711★Chapman R J ◎
SE JUNIPER AV INTERSECTS
800 Dorsey Rubye M Mrs ◎ 665-8881
810★Butcher Dennis D
811 Veselik Bryan J ◎ 661-5069
820 Armstrong Eric L ◎

601
SE SPRUCE AV INTERSECTS
900 East Gresham Grade School 661-6050
931 Weisgerber David J ◎ 667-0692
935 Schaer Andrew E ◎ 665-7694
1105 Dover Mikel C 667-7991
1115★Steward Calvin G
1145★Brown Delbert C 669-0430
1155★Lucky Gary ◎
1165 Vacant
1175 Spruill Judy B ◎ 667-1040
1185 Pearson Robt A Rev ◎ 667-0786
1195★Marchi Jeffrey A 669-0997
1205★Jordan Rod W
1215★Fuller Susan 667-4462
1235★Winters Joel C 666-1397
1255 Mc Gee
1257 No Return
1265 Vacant
1275 Hammer D L 667-2649
1285★Baumgardner James A 667-1854
1305★Anderson Donald L 667-3962
1315★Nielsen Kenneth W 665-2349
1335★Hernandez Michl R 667-5636
1345★Wolance Harry S 665-9810
1365★Tompkins Phillip L 666-5410
1375 Recker B A ◎ 661-1098
1385★Seipp Kathi
1395 Richardson Helen A Mrs ◎ 665-0730
1400 Dexter-Mc Carty School 665-0148
1425★Turner Steven J 666-2250
1435 Gilbey David M 667-8920
1445★Price Eldon T 661-5556
1455★Kamara Sharon L 665-4065
1465 Vacant
1475★Anderson Wm G bldg contr
1485 Vacant
1495★Pedro John W 669-1908
SE VISTA AV INTERSECTS
1585 Foster Carol M Mrs
1595 No Return
1615 Gratreak Robt L 667-0281
1625 Chandler Don 661-2687
1635 No Return
1645★Michael Alan E 661-7765
1695 Cunningham Bill
1705★Angus Tami Mrs 669-1478
1715★Palmer Reed K ◎ 665-0218
1725 Sullivan
SE HOGAN ST INTERSECTS

609
3091 No Return
3094 No Return
3140 No Return
3145 Pierson Gerald D
3188 Meriwether Paul W ◎ 665-4212
3189 Jolly Wm R ◎ 667-0282
SE HALE DR INTERSECTS
3204 Cook Frank I ◎ 661-2156
3215 Vacant
3259 Chaussee Jackie J
SE PAROPA PL INTERSECTS
3281 No Return

3780 O'Dell Robt W ◎ 666-3566
SE CENTURION AV ITERSECTS
3810 Gill Wm J ◎ 666-6006
3815 Schwab A J Mrs ◎ 661-7838
3830 Spring James R
3860 Vacant
3865 Wegener Gordon L ◎ 666-8133
3875 No Return
SE BARNES AV INTERSECTS
4025 Ludlow R Stewart ◎
4047 Vaughan Mary Mrs ◎
4050 Edenburn Murle D ◎
PALOMA AV INTERSECTS
SE GREENWAY DR INTERSECTS
4269 Anderson John P ◎ 666-6598
4278 Jones R B ◎ 661-1726
4289 Fouts Jeffrey T ◎
4320 Finnerty
4323 Brill Lawrence A ◎ 665-7804
4357 Malone Steven W ◎
4362 Witty Mary J ◎ 665-4680
4388 Vacant
4391 Nelson Ronald F ◎ 667-1374
4421 Kelley Milfred E ◎ 665-3216
SE LOVRIEN ST INTERSECTS
4465 Trubachik David ◎ 667-0967
4490 Harm Gary A ◎ 665-1783
4499 Vacant
4564 Webb Ted ◎ 666-8841
4567 Wong Leong T 666-5366
4592 Bramble Gar D ◎
4593 Strickland Rena Cheri
S E 268TH AV INTERSECTS
4612 Vacant
4619 Brown ◎
4620 Vedder P Mrs ◎
4625 Miller Wm A ◎ 667-1645
4631 Smyd Milton A ◎ 666-5316
S E BAKER AV INTERSECTS

300
5TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 4 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Moen Eileen R ◎ 665-2506
123 Young Polly
131 Bradley Jeff L 667-2317
136 Shanon Russell 661-3679
148 Bourne Fredk ◎ 666-7837
SE DORA ST INTERSECTS
235 Ferguson Roger 665-4833
244 Ferguson Bill E 666-2961
245 Kramer David ◎ 666-5014
SE HARLOW ST INTERSECTS
SE KIBLING ST INTERSECTS
408 Mc Pherren Dorothy Mrs ◎ 665-8878
431 Young Richd A ◎ 666-2272
432 No Return
433 Paine Carroll A ◎ 665-0287

642
5TH DR SW (GRESHAM)—FROM 3940 SE 182D AV EAST

ZIP CODE 97030
3660 Hammons Jerry D ◎ 661-6063
3680 Newcomer C E ◎ 665-4770
SW HARTLEY AV INTERSECTS
3720★Turner Donald E 661-0854
3725 Garrett Robt G ◎ 667-0285
3750 Holmes Dennis J ◎ 665-1824
3755 Romero Roy L ◎ 665-6997
3785 Becker Harold A ◎ 661-6488
3790 Stanley Harry ◎ 665-5446
3810 Shaw Steven M ◎ 666-1214
3835 Panza Joseph ◎ 667-4863
3845 Pike Victor R ◎ 666-5974
3850★Tangen Kevin S ◎ 665-4104
3875 Perica Gerald E ◎ 666-7717
3880 Ganther Harold O 665-6038
SW DUNIWAY AV INTERSECTS
3905 Hare Glenn K ◎
610
3920 Mendiola Augusto N ◎ 665-7905
3925 Kling Thos M ◎ 667-1206
3965★Thompson Jack R ◎ 666-6818
3970 No Return
SW NANCY AV INTERSECTS
4000 Robinson Harold ◎
4010 Schroeder John R ◎ 667-0988
4027 No Return
4030 Lambert Doug ◎ 666-6890
4077★Oades John ◎ 667-0171
4080 No Return
4110 Thomas Geo E ◎ 666-7548
4117 Ehmann Wm R 666-7616
4127 Birchard J Tom ◎ 666-3573
4130★Meno Paul ◎
4167 Bauck Jerry L ◎ 666-4872
4170 Howell Charles P ◎ 666-4669
SE 182D AV INTERSECTS

603
5TH ST SW (GRESHAM)—FROM 510 SW WALTERS DR EAST

ZIP CODE 97030
52 Metteson Chester F
126 Walker Douglas L 666-8671
222 Nelson Scott R ◎ 665-6007

642
1570★Hickman J F 667-4117
1573★Davis Robt K ◎ 667-1727
1594★Thompson Dan A 666-9422
1608★Lupuleasa Dan ◎
1610★Lewis Larry V ◎ 666-9467
1623 No Return
1624 Schwaenke M D 661-0205
1649 Clark Roy F Jr ◎
SW ANGELINE AV INTERSECTS
1658 Pense Clair E
1667 Young Frank H ◎ 666-5822
1670 Butts Robt ◎
1684★Koken Jack L ◎ 665-9004
1693 Huffman John G 661-1637
1698 Lenord N
1719 No Return
1730 Smith Quintin ◎
1747 No Return
1754 Pieschel Donald W C 666-5015
1773★Jenson Jerry L ◎ 665-9484
1788★Wagner Ronard L
1809 Freeland
1834 Orren Debbie
1857 No Return
1878 Racasa Gonzalo D 661-3550
1883★Monnes David E 665-0465
SW WILLOWBROOK DR INTERSECTS
SW MAWRCREST DR INTERSECTS
2322 No Return

610
6TH CT NE (GRESHAM)—FROM 595 NE SCOTT AV EAST

ZIP CODE 97030
3531 Robinson Steven C ◎ 666-6979
3553 Hutchison Helen M Mrs ◎ 665-2808
3554 Sieverson Jack W ◎ 666-9269
3574 O'Brien
3583 Lind David E ◎ 666-4670
3586 Dukart S A 661-3069
3588 Hutchinson Bill
3590 Stinson Richd H ◎ 666-6034
3613 No Return
3623 Vacant
3624 Vacant
3625 Olson Arth H ◎ 666-5006
3634 Looyens Louis F ◎ 667-5709
3636 Vacant
3666 Akin Nancy L ◎ 665-5635

604
6TH CT NW (GRESHAM)—FROM A POINT WEST OF 685 NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1520 Retzlaff Steven R artist 661-2160
1555 Dorsing Ray M ◎
1560 York Bea Mrs ◎ 666-2584
1580 Taylor Patk ◎
1585 Fuller Michl D ◎ 665-2855

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SE HARLOW ST (T)—Contd
100 Space Age Industries Ltd
Bennett D & D Woodworking cabtmkr 667-3680
NE 2D ST INTERSECTS
116 Vacant
E COLUMBIA ST INTERSECTS
126 Imthurn Laura A Mrs ◎ 665-2967
138 Albin Luella Mrs ◎ 665-6665
207 Ferch Walter W ◎ 665-3351
208 Vacant
234 Nunez Richd J 666-9682
235 Chambers Clara Mrs ◎ 666-1470
236★Jennings Robt 661-1827
243 Abegg Olive M Mrs ◎
244 Jones Jayvan W ◎
SE 3D ST INTERSECTS
302 Troutdale Full Gospel Church 665-0581
Parks John H Rev ◎ 665-0581
323★Yocom A E 667-1007
SE 4TH ST INTERSECTS
411 Beatty Jackie L ◎ 666-3022
422 Pashek Betty J Mrs ◎ 666-2053
SE 5TH ST INTERSECTS
533 Cook Floyd W 667-6350
6TH ST INTERSECTS
603 Smith Eugenia Mrs ◎ 665-3346
648 Troutdale Grade School 665-4182

568

HARNEY DR SE —FROM SE 45TH AV EAST 1 SOUTH OF SE UMATILLA DR

ZIP CODE 97206
4502 Carousel Laundry 774-3196
4515 Thompson Frances R Mrs ◎ 775-8437
4543 Kramer O W ◎ 771-9536
4600 Precision Castparts Corp metal die casting 777-3881
4807★Wilkinson Ernie S 777-6454
4903 Fitzgerald Steven 771-7487
4905 Grolbert Richd H ◎ 777-1967
4917 Felix Steph ◎ 771-8710
4943 Ritthaler Jacob H
5011 Rankin Eug E ◎
5027 Maxey Wm D ◎ 771-7693
5100 Crestview lou schultz mgr 777-1711
White Stag Mfg (Admn Bldg) 777-1711
5111 Puckett Herbert ◎
SE 52D AV INTERSECTS
5200 White Stag Mfg clo mfrs 777-1711
Del Mar Of Northwest Inc clothing whol dlrs
Pacific Textile Mills Inc
5241★Warnes Ed T
5255 Britzius Elma Mrs ◎ 771-4137
5305 Vacant
5308 Martin Mathias J ◎ 771-0170
5313 Torelle Joseph F ◎ 771-7096
5323 Vacant
5410★Bolefur Ernest 774-9688
5420 No Return
5430 Vacant
5445 Borgensgard Naomi Mrs ◎ 771-2283
SE 55TH AV INTERSECTS
SE MALDEN DR INTERSECTS
5629 Hermle Anna R Mrs ◎ 774-2260
5655 Grant Charles E ◎ 775-2159
SE 57TH AV INTERSECTS
5720 Stevens L D ◎ 771-6473
SE 58TH AV INTERSECTS
5835 Oswald Juergen P ◎ 771-5806
5849 Hodge Matthew C ◎ 771-9202
5854 Sorenson Frank C ◎ 771-8364
5859★Mayenschein Leo ◎ 775-7599
5872 Crest Apartments
A★Ensenger Doris
B Libke Art 777-2741
C★Durrigan Lucille
D★Beimar Trais
E★Whedon Donna M 775-1733
F★Potts Kathy
G★Ellis Earl
H★Addleman Tammie
J★Johnston David 771-0012
5909 Gross Arnold C ◎ 774-0091

570

HARNEY ST SE —FROM SE FLAVEL DR EAST 5 SOUTH OF MALDEN DR

ZIP CODE 97206
5905★Guy Leslie R ◎
5921 Vacant
5933★Balicki Joseph J ◎ 771-1486
5950 Goff Warren H ◎ 774-7276
5951★Coleman G T 774-4030
SE 60TH AV INTERSECTS
6009 Mills Mark ◎ 775-0195
6015 Ward Wm ◎
6031 Massey Edna Mrs ◎
6036★Peterson Orville G ◎ 774-2415
6045★Peas Bonita Mrs
6049 Thomas Wm P ◎
6050 No Return
6108 No Return
6108a Holder Roy A
6108b Price Robt
6109★Luckhaupt James M ◎ 777-0510
6121 Wilson Floyd J ◎ 771-8272
6135 Johnson Estes W ◎
6136 No Return
6150 Fisher Pam A
6154 Mitchell Jackie Mrs 774-8102

572

SE 62D AV INTERSECTS
6233 Hartwell Glenn E ◎ 775-9695
6238 Dittler Edw G ◎ 774-5279
SE 63D AV INTERSECTS
6310 Strom Dennis ◎
6311 Vacant
SE 64TH AV INTERSECTS
SE 65TH AV INTERSECTS
6508★Heng Ham ◎ 775-6844
6535★Everson G R 771-9240
SE 66TH AV INTERSECTS
6611 Cline Wm H ◎ 774-3443
6612 Goughnover Eva Mrs
6625 Mc Farland Ernest M 775-2612
6626 Carr James H ◎ 774-5594
SE 67TH AV INTERSECTS
SE 68TH AV INTERSECTS
6737 Sparks Roderick J ◎ 771-0108
6805★Waters S C 775-5145
6815 O'Conner Gary roofing contr
SE 69TH AV INTERSECTS
6905 Dozark Harold D ◎ 771-5746
SE 70TH AV INTERSECTS
7010 Fee Orrin P ◎ 775-8216
7020 Kaleta Alex J ◎ 777-2446
7030 Serrano Vicki L ◎ 771-3077
7044 Morrison Gary 775-5570
7048 Kelturk Andrew ◎
7050 Axtell Brad A
7066 Thomas F D ◎ 774-6756
7102 Younger Robt H 771-4860
7112 Harrah Steven D 771-2053
7129 Mount Hood Little League Parker Field pks & playgrounds

574

SE 72D AV INTERSECTS
7215 Blank Dale R ◎ 775-8794
7225 Cornwell Richd E ◎ 775-0950
7226★Davis Jerry 771-6005
7227★Schowengerdt Saml L 775-9830
7228 Royce Jerry R 775-7402
7305 Connett S C
7306★Planton M E 774-6555
7312 Hansen Richd ◎
7315 Somers Stellabeth Mrs ◎ 774-6791
7326 Vacant
7330 Vacant
SE 74TH AV INTERSECTS
7400 Trocha Jack ◎
7402 Braden Harold D ◎ 775-7698
7418 Grablers Larry ◎
7425 Wallstrum Raymond E ◎ 777-2332
SE 75TH AV INTERSECTS
7502 Mc Intosh Gordon A ◎ 771-2871
7504 Cooley Beth ◎
7505 Wolfley Bruce ◎ 777-1670
SE 75TH PL INTERSECTS
7536 Foster Fay F ◎ 775-6570
7550 Perez Karen R Mrs ◎ 771-2631
7575 Cockerham John J ◎ 775-0675
7606 Baxter Richd F ◎ 771-9618
7607★Phelps Austin E 774-4626
7619 Nelson Eric F ◎ 774-5734
7626 No Return
SE 76TH PL INTERSECTS
7640 Mulberry James M ◎ 775-9497
7646 Kienberger Jack ◎ 777-3070
7651 Christianson Wm ◎
SE 77TH AV INTERSECTS
7701 Seats Jim ◎ 774-8013
7732 No Return
SE 78TH AV INTERSECTS
7809★Thompson Robt 775-4718
7812 Hawkins Machinery 771-2206
Hawkins Wendell W ◎ 771-2206
7815★Ira T L 774-4227
7837 Nelson Henry F ◎ 771-3370
7904 No Return
7909 Fuzi Wm
7910 Vacant
7912★Owen Dean A 777-3523
7914 Comstock Lloyd ◎ 775-1660
7915★Lu Core Helen B Mrs 771-5393

576

ZIP CODE 97266
8205 Johnson Creek Trailer Park Spaces
1 Rathbone Myrtle Mrs 771-2298
2 Schoemaker Kay 774-6864
3 Fisher Vern 774-5031
4 Grudzinski Frances H Mrs 775-1083
5 Horne Arabella M Mrs 774-0280
6★Wilson Kim
7 Hoover Harry 775-8234
8★Grant John 771-4820
9★Mc Connell R D
10★Johnson Angus
8230★Wilson
8234★Barnaby Phillip A
8240 Vacant
8250★Stark John 771-5081
8306 Allen Leslie D ◎ 774-2707
8312 Vacant
8318 Wallace Gus ◎ 771-1374
8333★Mardetta Craig
Rear Foreign Auto Rebuilding & Parts Inc 777-3843
8405 Dixen Freta M Mrs ◎ 774-1377
8408 Herrell Aaron C ◎ 771-7139
8434 Newman John H ◎ 775-3087
8439 Robinson Wm J ◎ 771-6532
8450 Ehrlich Don E ◎ 775-7774
8455 Anderson Gary A ◎ 775-6997
8456★Anderson Gary
8501 Ball Floor Service bldg mtce 774-7078
★Herrell E R ◎ 771-7139
8516★Stevens Brenda L ◎ 775-9085
8530 Mullins Bryce H ◎ 777-1063
8540★Hamilton David N ◎ 775-3184
8543 Lee Lucinda E ◎
8557 Spangenberg Roy F ◎ 774-7930
SE 86TH AV INTERSECTS
8606 Cleaver Newton ◎ 771-5525
8625 No Return
8636 More John E ◎
8675 Ferguson Robt W ◎ 775-7126
SE 87TH AV INTERSECTS
8702 Furrer Howard J ◎ 774-5815
8702a★Duggan G L 777-5939
8703 Osgood Clara C ◎
8703a Mertis Mary L
8727★Hall R V
8732★Knapp R J
8733★Beach Michl V ◎ 771-8940
SE 88TH AV INTERSECTS
8806 Lee Robt E ◎

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SE 4TH ST (G)—Contd
1415 Mock Maurice L ◎ 666-4123
1416 Under Constn
1421 Creathbaum Della I Mrs 667-5433
1440★Woods Lyle F ◎ 667-9403
No Return
SE VISTA AV INTERSECTS
1505 Gladen Russell H ◎ 666-2600
1530★Rucker Dora R Mrs ◎ 665-9834
1550 Gradwohl David C ◎ 665-7837
1555 Vacant
1575★Van Voorhees Kenneth L 665-8479
1605 Plance Robin G 665-3904
1610 Kirwan M Frank ◎ 665-8421
1615 Vacant
1624 Fagan Tim G ◎ 667-4157
1625 Jackson Marshall P ◎ 665-7304
1634 No Return
1654 Miller Betty I 667-7767
1700 Dahm Raymond G ◎
1715 Raff Holdrich ◎ 665-9698
SE HOGAN RD INTERSECTS

609

3080★Yandell Robt L ◎
3083★Keys Robt ◎ 665-0695
3132 No Return
3139★Moyer Wm ◎
3171★Reiter Timothy A ◎ 666-3004

300

4TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 3 SOUTH OF COLUMBIA ST

ZIP CODE 97060
105 Card Frank S ◎ 666-1043
SE DORA ST INTERSECTS
206★Kogle Phyllis J Mrs ◎
247 Edgley Vera V Mrs ◎ 665-9781
SE HARLOW ST INTERSECTS
346 Walls Peter S ◎
385 Alexander James R Rev 666-1420
SE KIBLING ST INTERSECTS
434★Murphy Edw J ◎ 667-3796
SE SANDY ST INTERSECTS

603

4TH ST SW (GRESHAM)—FROM 222 S W 5TH ST WEST

ZIP CODE 97030
290 Potter Charles D ◎ 667-6656
291 Hinkle Jerry L ◎ 667-4976
SW VICTORIA CT INTERSECTS
301 Vacant
331★Lanegan Jennie L ◎ 665-9823
340 Vacant
361 Clawson Rodger V ◎ 666-8790
370 Carter Gary D ◎ 667-0721
381 Park Elmer L Jr ◎ 665-4925
SW EASTMAN CT INTERSECTS
421 Lakey Robt W ◎ 666-8003
430 Weisenborn Geo A ◎ 666-9670
441 Mc Allister Keith H ◎ 666-9179
450 Crockett David C ◎ 666-6496
471 Johnson Connie F ◎ 666-6488
490 Strother Raleigh H ◎ 667-2036
491 Baker Barry D ◎ 667-1762
510 Powers Lee A ◎ 665-7081
521 Spencer Lance M ◎ 665-0672
530★White Robt L ◎ 666-1469
561 Applebee L ◎ 666-6860
581 Vacant
SW 6TH ST INTERSECTS
601 Takeuchi Thos K ◎ 665-8245
621★Courier Keith D
641 Lee John A ◎ 665-0433
663 Pantano Mitchell 667-2922
692 Long Dale A 666-8418
SW 7TH ST INTERSECTS
705 Tripp Wilbur D 667-1295
712 Petker Danl W ◎ 665-7044
713 Jones Patk B 667-2704

604

1238 Fourth Street Arts & Crafts 666-4201
Lichtenberg Lowell ◎ 666-4201
1241 Bostic Dwight G ◎
1263 No Return
1266 Dixson Linda D Mrs ◎ 667-3878
1284 Baker David L ◎ 667-1671
SW WALLULA AV INTERSECTS
1320 Kawecki Gerald J 665-7903
1321 Choate Thos ◎ 667-6752
1353 Greenburg Fred J ◎ 667-6018
1377 Warren Jack C Jr ◎ 665-7920
1386 Tragis Paul J ◎ 666-4045
1423 Beck Sherman A ◎ 665-9241
1426 Schumacher Hugo ◎ 665-9603
1451 Rimbey Larry D ◎ 665-0851
1454 Vacant
1475 Koga Lincoln ◎ 667-2210
1478 Kinsky Thos M 665-8705

642

SW ANGELINE AV INTERSECTS
1604 Vacant
1610★Douglas Herb E ◎ 666-8330
1631 Vacant
1657★Mc Cabe James B ◎ 667-4324
1660 Under Constn
1670 Vacant
1675★Deming Greg A ◎ 661-0378
1690 Vacant
1691 Vacant
1720 Vacant
1727★Gjestlend Norman A ◎ 665-5627
1736 Under Constn
1745 Vacant
1762 Under Constn
1771 Vacant
3718 Mc Daniel Jerry L ◎ 665-9547
3719 Vacant
3752★Owens Betty Mrs
3755 Geddes Donald
3785★Glivinski Gene A 666-6326
3792 Nelson Grant C ◎ 667-2990
3811★Mc Kenna Charles A ◎ 665-2754
3824 Barnes Randy ◎ 667-2911
3827★Aromin Raul ◎ 665-3973
3850 Munson Herbert Jr ◎ 665-5604
3853 Eisenbrown Dale F ◎ 667-6929
3890★Pierce Steven G
3893 Billion Ronald A ◎
3912 Nichols Gary A ◎ 666-2042
3915★Tiro Alan O ◎
3918 Errico Jos ◎ 661-1197
SW DUNIWAY AV INTERSECTS

300

4TH ST SW (TROUTDALE)—FROM BUXTON RD WEST 3 SOUTH OF COLUMBIA ST

ZIP CODE 97060
107 Wilson James R ◎
133 No Return
201 Vacant
204★Ramberg Danl L ◎ 665-2908
206 Golub Geo ◎ 665-7238
225 Sutherland Roger M ◎ 665-2275
242 Espenel Wayne A ◎ 665-4406
300 Troutdale City Well
342 Troutdale Public Works Dept (Br) 665-7651

610

5TH CT NE (GRESHAM)—FROM 502 NE SCOTT AV WEST

ZIP CODE 97030
3421 Hayman Emory G ◎ 666-6815
3447★Hansen Saml 667-5035
3454 Burtless Stanford L Jr Rev ◎ 666-2019
3485 Chase Donald L ◎ 667-5058
3852 Sunderland John C 665-5209
3870 Petruzelli Dante G
3871 Fisher Dennis M 665-5802
3885 Young Paul T ◎ 666-2808
3899 Vacant
NE PALOMA AV INTERSECTS

610

5TH DR NE (GRESHAM)—FROM 546 NE PALOMA AV EAST

ZIP CODE 97030
NE PALOMA AV INTERSECTS
4022 Elder M
4025 Vacant
4030 Vacant
4044★Clark Reo L ◎ 661-0448
4052 Forsyth
4060 Murphy Bill I ◎ 665-7896
4071 Scafidi Jos A ◎ 661-2953
4084★Rugg
4115★Timpe Maurice C bldg contr ◎ 666-2832
4132 Indahl Ben A 665-3736
NE LAURA AV INTERSECTS

604

5TH CT NW (GRESHAM)—FROM NW TOWLE AV EAST IN A SEMI-CIR

ZIP CODE 97030
1440 No Return
1445 Stockdale Joseph B ◎
1450 Bennett Marion W ◎ 667-4893
1455 Becker Gary A ◎ 666-5394
1460 Lowry Donald W ◎
1465 Wilson David K ◎ 665-2583

603

5TH CT SW (GRESHAM)—FROM 643 SW 7TH ST WEST IN A SEMI-CIR

ZIP CODE 97030
690 Rockwell
730 Lolle R D
745 Conklin Thos W 667-0365
760 Vacant
775 Vacant
790 Scales Wm
4★Mc Kerahan D Compton ◎ 666-1125

604

5TH PL SW (GRESHAM)—FROM SW TOWLE AV EAST IN A SEMI-CIR 1 SOUTH OF SW 4TH AV IN A SEMI-CIR

ZIP CODE 97030
1333 Bouray Dale A ◎ 665-7386
1344 Lewis James K ◎ 666-9370
1367 Brasuell Charles D ◎ 666-8960
1371 Bertsch
1376 Johnson Allen L ◎ 665-4909
1418 Feyka Steven E ◎ 665-0733
1425 No Return
1434 Krauser Gary L ◎ 666-6068
1447 Graves Jesse P ◎ 667-0736
1463 Isaacs Theo L ◎ 666-1992
1466★Hawes Robt M ◎ 666-3406
1481 Vacant
1482 Zahara Robt F ◎ 666-8712

600

5TH ST NE (GRESHAM)—FROM N MAIN AV EAST 4 NORTH OF E POWELL BLVD

ZIP CODE 97030
27 Meeker Donald K ◎ 667-4779
28 Petersmark Roy
Rear Christie Eliz M 666-5878
NE ROBERTS AV INTERSECTS
131 Wilson Helen Mrs 667-0354
150 La Londe Lena E Mrs ◎ 666-1665
206 Peterson Kevin J 667-8419
NE HOOD AV INTERSECTS
310 Cascade Chiropractic Center 667-6020
Windell Henry C dentist 667-1431

Mt Hood Datsun
CALL 661-1200
21855 S.E. STARK
GRESHAM, OREGON 97030

NE 5TH ST (G)—Contd
NE BEECH AV INTERSECTS
480 Price Joseph W ◎ 665-3048
485a Speelman Robt J 666-1843
485b Germundson Millie Mrs 666-1788
NE KELLY AV INTERSECTS
530 Vacant
550 Carmony Oran J 665-6621
NE ELLIOTT AV INTERSECTS
615 Lauderback Loretta J Mrs ◎ 665-2029
640 Ulrich Z Ethel Mrs ◎ 666-3092
679★Eubanks Jack M 667-0828
NE LINDEN AV INTERSECTS
725 Foxon Keith F ◎ 665-9692
755 Stratton J Bryan ◎ 665-3960
775 Vacant
NE JUNIPER AV INTERSECTS
803 Vacant
809★Tousseau Steph
815 No Return
845 Rim Rock Apartments The
1 Earls Tina D 667-2383
2★Anderson Paul E
3 Ronning Roger 667-5748
4 Smith Wm G
5 Benjamin Carol V Mrs 667-1943
6 Vacant

609
3090 Mc Innis Darrell E ◎ 667-2815
3185 Grubb Gary E ◎ 667-1655
3190★Lang Keith A ◎ 665-2573
3195 Wagaman Ernest G ◎ 666-6054
3200 Hinsen Clarence A ◎ 665-7789
3220 Fowler Lloyd W ◎ 665-1262
3225 Bauer Carole I Mrs
3280 Dick Howard J ◎ 666-1044
3285 Farra Willard ◎
3301 Imbeau J A ◎ 666-6370
3305★Jeans Robt W 666-3503
3315 Patton Clarence W ◎ 666-2947
3335★Frederick Suzanne K 661-0581
3355 Antoniskis Andy 667-5312

563
5TH ST NE (FAIRVIEW)—FROM 500 DEPOT ST SOUTHEAST

ZIP CODE 97024
365★Land M L 667-1896
385★Greenhalgh James M 666-6582

603
5TH ST NW (GRESHAM)—FROM N MAIN AV WEST 4 NORTH OF W POWELL BLVD

ZIP CODE 97030
50 Prairie Market 663-6697
NW MILLER AV INTERSECTS
NW NORMAN AV INTERSECTS
609 No Return
645 Palmquist Ernest O ◎ 665-8923
650 Crowley Lawrence C ◎ 665-9572
655 Onchi Joe M ◎ 665-7449
670 Kinnear Elva Lee Mrs ◎ 665-6857
675 Paskett Dean S ◎
715 Schreiber Arth C ◎ 665-3023
750 Lader Rudolf A ◎ 665-7437
800 Bucknum Dennis G ◎ 665-2091
815 Larson Leland E ◎ 665-0227
840 Flanagan James E ◎ 665-9267
845 Curtis Edgar T 665-6698
880★Norton Richd P ◎ 665-1883
895 Olsen Sam G ◎ 666-6537
900 Helding John F ◎ 666-1017
920 Lillard John D ◎ 666-2131
NW 6TH ST INTERSECTS

604
NW TOWLE AV INTERSECTS
1500 Kampsen
1505 Lee Edw B Jr ◎ 665-0442
1520 Tallman Constance H Mrs ◎ 665-1706
1525 Bankston Norman V ◎ 666-1019
1540 Blakely Carl E ◎
1545 Huddle Betty J Mrs ◎ 665-7545
1560 Bardell Steven W ◎ 661-0624
1565 Hodge David J ◎ 665-3032
1605★Benson M Clayton 665-2719
1610 Wright Joe E ◎ 665-7933
NW ANGELINE AV INTERSECTS
NW BELLA VISTA DR INTERSECTS
1845 Gallagher John R ◎ 666-1738
1865★Grenz Adam ◎ 667-5532
1895★Coppock Thos K ◎ 665-3957
1925 Hug Edwin W ◎ 665-8862
1965 Yungeberg Robt L ◎ 666-3272
1985 Vacant
2010 Vacant
2015 Lopes Serrao Mike V ◎ 666-1976
2025 James Robt G ◎ 665-0521
NW RIVERVIEW PL INTERSECTS
2175 Sinclair Robin E ◎ 665-0466
NW BIRDSDALE AV INTERSECTS
S E RHONE ST INTERSECTS
2220 Stamm Delmar D ◎ 665-4559
2280 Hall Marilyn Mrs ◎
2290 Vacant
2309 Welsh Bennett M ◎ 665-3452
2400★Craddock Ronnie J ◎ 666-5743
2410 Zabloudil David G ◎ 666-0932
2450 Rogge Emil G ◎ 665-7393
2460 Hank's Strawberry Farm 665-5650
Henry Harold G ◎ 665-5650
NW ELEVEN MILE CT INTERSECTS

602
5TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST 3 SOUTH OF E POWELL BLVD

ZIP CODE 97030
435 Welty Clara B Mrs ◎ 665-3538
510 Lundquist Marvin C ◎ 666-2438
511★Burklund Brock R ◎ 661-1831
516 Hanna Esther M Mrs ◎ 665-8464
520 Doering Anthony F ◎ 665-6687
521 Wolfe Michl ◎ 666-2786
522 Austinson Alma T Mrs ◎ 665-5880
SE KAY PL INTERSECTS
540 Karlen Ernest R ◎ 665-5421
541 Nau Robt W ◎ 666-1970
610 Ott Alvin A ◎ 665-8384
617 Smith Alma R Mrs ◎ 665-5274
644★Bunyard Gene H 665-9820
676 Hunter Carol Mrs
SE LINDEN AV INTERSECTS
705 Lapp Ralph E ◎
711 Bies Philip N ◎ 665-4396
SE JUNIPER AV INTERSECTS
800 Dorsey Dennis P ◎ 665-8881
810 Jenness John J
811 Weiss Walter W ◎ 666-1920
820 Knosp Delvin E ◎ 665-8688

601
SE SPRUCE AV INTERSECTS
900 East Gresham Grade School 665-3995
931 Weisgerber David J ◎ 667-0692
935 Schaer Andrew E ◎ 665-7694
1105 Armstrong Eric L
1115 Vacant
1145 Baird Janette E Mrs 666-9051
1155 Bryant Robt N 666-3008
1165 Munsell Paul R 666-5257
1175★Spruill Judy B Mrs 667-1040
1185 Pearson Robt A ◎ 667-0786
1195 Cortez Joseph 666-4331
1205 Fee Gary
1215★Swanson M 667-2091
1235 Richey Archie R 666-8516
1255 Vacant
1257★Davis Jo Ann
1265★Bartett Wm C 665-3605
1275 Hall David 667-4185
1285 No Return
1305 Utting Ralph R 666-7801
1315 Luttropp Gerald D 665-0869
1335 No Return
1345★Vishnefske Jim D 661-1929
1365★Deebach Robt L 666-6106
1375★Berry Dennis ◎ 661-1038
1385★Chalich Pamela Mrs 666-6482
1395 Richardson Helen A Mrs ◎ 665-0730
1400 Dexter-Mc Carty School 665-0148
1425 No Return
1435★Kissinger Katie Mrs
1445 Paynter Marilyn
1455 Isham Gary C ◎ 666-8638
1465★Cumby Wm C 667-7745
1475 Viltrakis Geo A 665-5702
1485 Bass Steven W 666-3485
1495 Perry M Christine 665-5574
SE VISTA AV INTERSECTS
1585★Cox David L 661-1039
1595 Moore Fred A 667-6042
1615★Lickey Ron S
1625★Chandler Don 661-2687
1635 Booth Pam Mrs
1645★Lenz Dorene
1695 Brown Dale B 665-7257
1705★Davis Pete 66-7900
1715★Graham Don R ◎ 666-2385
1725★Scheffer Danell J

609
3091 Vacant
3094 No Return
SE HALE DR INTERSECTS
3140 Rosinski Leonard D 665-1838
3145★Coon Blanche Mrs 661-3448
3170 Vacant
3175 No Return
3188★Meriweather Paul W ◎ 665-4212
3204 Vacant
3215★Swales Clifford J 665-1786
3259 Ordonsy Julis A 665-7541
SE PAROPA PL INTERSECTS
3281 Mt Hood Building Maintenance 667-2615

610
3780 Green Walter A Jr ◎ 665-4029
SE CENTURION AV ITERSECTS
3810 Gill Wm J ◎
3815 Quinton Wm O 667-5662
3830 Spring James R ◎ 665-1742
3860 Vacant
3865 Vacant
3875 Griffin Dale H 665-0767
SE BARNES AV INTERSECTS
4025 Ludlow R Stewart ◎ 667-1095
4047 Vaughan James S ◎ 667-1345
4050 Edenburn Murle D ◎ 667-0927
PALOMA AV INTERSECTS
SE GREENWAY DR INTERSECTS
4269 Anderson John P ◎ 666-6598
4278 Stewart Rusty H ◎ 666-2494
4289 Fouts Jeffrey T ◎ 665-6785
4320 Vacant
4323 Brill Lawrence A ◎ 665-7804
4357 Vacant
4362 Newton Edw B Rev ◎ 661-1560
4388 Vacant
4391 Nelson Ronald F ◎ 667-1374
4421 Kelley Milferd 665-3216
SE LOVRIEN ST INTERSECTS
4465 Trubachik David 667-0967
4490★Harm Gary A 665-1783
4499 Mehrens Wm W ◎ 666-9323
4564★Webb Ted ◎ 666-8841
4567★Wong S D 661-0266
4592 Bramble Gar D ◎
4593 Vacant

300
5TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 4 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Vacant
123 Hartwell Douglas H 665-0856

Cascade Surplus & Electronics
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INDUSTRIAL
OFFICE SPACE LEASING
STORE LOCATIONS
SHOPPING CENTERS
APPRAISAL SERVICE

SE 5TH ST (T)—Contd
131★Brandon Kent D 666-6607
136★Morgan Dale I 665-5285
148 Bourne Fredk ◎ 666-7837
SE DORA ST INTERSECTS
235★Jackson Walter C
244 Ferguson Bill E 666-2961
245 Kramer David ◎ 666-5014
SE HARLOW ST INTERSECTS
SE KIBLING ST INTERSECTS
408 Mc Pherren Lyle F ◎ 665-8878
431★Young Richd ◎

642

5TH DR SW (GRESHAM)—FROM 3940 SE 182D AV EAST

3660★Richards Stewart W ◎ 667-4909
3680 Young Byron U ◎ 665-4770
SW HARTLEY AV INTERSECTS
3720★Snider Gregory M ◎ 667-6687
3725★Garrett Robt ◎ 667-0285
3750 Holmes Dennis J ◎ 665-1824
3755★Romero Roy L 665-6997
3785★Grimes Melvin H 666-1894
3790 Stanley Harry ◎ 665-5446
3810★Shaw Steven M 666-1214
3835 Vacant
3845 Panza Joseph ◎ 667-4863
3850 O'Brien Jos F ◎ 667-2420
3875★Perica Gerald E 666-7717
3880 Vacant
SW DUNIWAY AV INTERSECTS
3905 Hare
3920 Mendiola Augusto N ◎ 665-7905
3925★Kling Thos M ◎ 667-1206
3965★Thompson Jack ◎ 665-4817
3970★Berkstresser M 665-4817
SW NANCY AV INTERSECTS
4000 Robinson Harold
4010 Schroeder John R ◎ 667-0988
4030 Koufafas Mich P ◎ 665-2644
★Lambert Doug 666-6890
4077 Sanders Charles J ◎ 667-7026
4080★Hill H H ◎ 666-6441
4110★Thomas Geo E ◎ 666-7548
4117 El-Khal Joseph T ◎ 667-5710
4127 Hohberg Henry P ◎ 667-2732
4130★Craven Larry L ◎ 665-9304
4167 Bauck Jerry ◎ 666-4872
4170★Grimm Gary A ◎ 665-4945

603

5TH ST SW (GRESHAM)—FROM 510 SW WALTERS DR EAST

ZIP CODE 97030
222 Nelson Scott R ◎ 665-6007

642

1573 Under Constn
1623 Vacant
1649 Vacant
1667 Vacant
1670 Vacant
1684 Flippen David W
1693 Under Constn
1698 Under Constn
1719★Lewis
1730 Under Constn
1747 Vacant
1754 Under Constn
1773 Vacant
1788 Vacant
1809 Vacant
1849 Vacant
1860 Vacant

610

6TH CT NE (GRESHAM)—FROM 595 NE SCOTT AV EAST

ZIP CODE 97030
3531★Murakami John D ◎ 666-2182
3553★Hutchison Donald O
★Hutchison Robin L ◎ 665-2808
3554 Sieverson Jack W ◎ 666-9269
3574 No Return
3583 Lind David E ◎ 666-4670
3586 Vacant
3588 Hutchinson Bill 665-4969
3590 Stinson Richd H 666-6034
3613 Chorney Stan 667-0951
3623 Snyder
3624 Cooper Wm R Jr 666-3978
3625 Olson Arth H ◎ 666-5006
3634 Looyens Louis F ◎ 667-5709
3636 Groesch M
3666 Akin James M ◎ 665-5635

604

6TH CT NW (GRESHAM)—FROM A POINT WEST OF 685 NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1520 Bross Robt E ◎ 666-3007
1555 Dorsing Ray M ◎
1560 York A Donald 666-2584
1580 Taylor Wm W ◎ 667-6066
1585★Fuller Michl

603

6TH CT SW (GRESHAM)—FROM 546 SW 6TH ST EAST IN A SEMI-CIR

ZIP CODE 97030
505 Downing Charles L ◎ 665-9075
513 Carbone Leo E ◎ 665-7468
523 Findlay Matt ◎ 667-7794
533 Cuda Anthony ◎ 666-5769
543 No Return
545 Baker Gregg ◎ 665-8604

604

6TH DR NW (GRESHAM)—FROM 620 BELLA VISTA DR WEST

ZIP CODE 97030
1780 Reed Ralph L ◎ 665-2621
1795★Miller Leonard
1800 King Miles A ◎ 665-3546
1825★Booth Audrey S 666-4071
1840 Rupp Frank M ◎ 665-7002
1855 Jackson K D Construction genl contrs 665-3949
Jackson Kurt D ◎ 665-3949
1860★Seargeants Paul L ◎ 665-1226
1885 Brownrigg Sena B Mrs ◎ 666-2310
1890 White Jack S ◎ 66-2679
1915 Wallen James H ◎ 665-0576
1920 Wilson Mae M Mrs ◎ 665-6979
1945 Marcus Melvin R ◎ 666-4111
1960 Alzner John O ◎ 666-2177
1975★Holt Robt L ◎ 667-5647
1980 Vacant
2005 Yutze Otto G ◎ 666-2602
2010 Thomas Peter T ◎ 665-7390
2020 Shepherd Alice M ◎ 665-7619
2025★Funk

604

6TH PL NW (GRESHAM)—FROM NW CASCADE CT WEST 1 SOUTH OF NW 7TH PL

ZIP CODE 97030
NW CASCADE CT INTERSECTS
2178 Carlson Patk A ◎ 666-9217
2185 Mason Victor R ◎
2198★Martin R E 667-2612
NW BIRDSDALE AV INTERSECTS

604

6TH PL SW (GRESHAM)—FROM SW TOWLE AV EAST 1 SOUTH OF SW 5TH PL

ZIP CODE 97030
1421 Zuiches Walter G 666-9246
1430 Higgins Construction Co 667-5808
Higgins Thos C ◎ 666-5754
1439 Hauser C Alan ◎ 666-7906
1445 Vacant
1448 Lindstrom Geo M ◎ 666-9063
1455★Mc Bain M
1470 Vandenbos Arlo L ◎ 666-7273
1471★Groepper Henry 667-3291
1489 Vacant
1492 Vacant

600

6TH ST NE (GRESHAM)—FROM NE LINDEN AV EAST 1 NORTH OF NE 5TH AV

ZIP CODE 97030
755 Beef Palace Distributing whol meat & frozen prod 666-9533
NE LINDEN AV INTERSECTS
830 B & M Fabrication 661-1303
890 Rothers Motors Inc auto repr 666-8601
895 County Dept Environmental Servs (Oprnts & Mtce) 665-5692

563

6TH ST NE (FAIRVIEW)—FROM 532 DEPOT ST SOUTHEAST

ZIP CODE 97024
25★Clift Raymond D ◎
30 Knaub Donld F ◎ 667-3384
MAIN ST INTERSECTS
150 Dumpprope Wilford 665-1291
160 Klinger Charles W 665-3226
175 Davidson Edw I ◎ 665-8220
Swirtz Frank E ◎ 665-1083
CEDAR ST INTERSECTS
235 Brinser Kenneth E ◎
245★Luster Robt D
255 Mullikin Diane R ◎ 666-6393
265 Ridinger Jeffrey R 667-6295
275 Burkey Sandra Mrs 666-2378
280★Shelton M A ◎ 665-0659
285 No Return
295★Howe Kathleen E 667-8079
HARRISON ST INTERSECTS
LINCOLN ST INTERSECTS
315 Olin Lanny R ◎
320 Callaway Orville ◎ 665-9728
340 Brinser John H ◎ 665-6241
345 No Return
360 Patton S E Mrs 666-7068
370★Steffy Richd M 667-8115
400 Sams Ken W
N E HALSEY ST INTERSECTS

605

6TH ST NW (GRESHAM)—FROM 620 NW DAY DR WEST

ZIP CODE 97030
790 Williams Cath T Mrs ◎ 665-3862
840 Mishima Henry ◎ 665-3475
NW 5TH ST INTERSECTS
875 Froese Oscar T ◎ 665-9719
890 Morgan Hector ◎ 665-7930
935 Kehret Ernest W ◎ 665-6921
975 Klingner Carl E ◎ 665-7381
NW OVERLOOK AV INTERSECTS
1095 Gee John R ◎ 665-2934
1200 Savage Charles H ◎ 665-6493

606

6TH ST SE (GRESHAM)—FROM 550 SE HOGAN AV EAST

ZIP CODE 97030
1905★Shockley Oscar L ◎ 666-8651
1930 K R D R Pacific Broadcasting Corp 667-1230
SE FRANCIS AV INTERSECTS
2180 Morfitt
SE RENE AV INTERSECTS
SE BARNES AV INTERSECTS

TEL. 665-4948 Gresham 97030
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SE 6TH ST (G)—Contd

610

SE CENTURION AV INTERSECTS
3805 Chase Elayne V Mrs ◎ 667-5050
3825 Wise Edgar A 665-0283
3845 Moore Don L ◎ 666-2924
3850 Finney Wm
3870 Randlett Weldon A ◎ 666-3318
3895 Freuler John T ◎ 666-4248
SE BARNES AV INTERSECTS

300

6TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 5 SOUTH OF COLUMBIA ST

ZIP CODE 97060
131 Frank Loren P ◎ 666-5342
134 Louderback Larry F ◎ 666-4802
SE DORA ST INTERSECTS
204 Watterson David W 667-9038

603

6TH ST SW (GRESHAM)—FROM 520 SW WALTERS RD WEST

ZIP CODE 97030
295 Curran Thos J ◎ 665-7075
305 Huskey James E ◎ 667-9238
345 Eave Henry W ◎ 665-0550
360 Kipers Paul ◎ 665-0494
375 Mitchell Perry E ◎ 666-2074
395 Forster Fred ◎ 666-7883
416 Kipers Paul J Jr ◎ 666-8682
425★Jones Robt E 665-9096
436★Cox Lillian E Mrs ◎ 667-1950
465 Fisher Gary L ◎ 666-8210
466★Cook Kenneth G ◎ 661-2057
485 C D C Construction Development Co 666-8720
486 Bryan Lawrence M ◎ 667-4778
495★Johnston Robt J ◎ 667-3756
496 Pruitt Dick J ◎ 667-5883
506 Rice Paul B ◎ 667-0683
516 Sanford Jerrald D Rev ◎ 665-8058
536 Gomes Joe R ◎ 665-8517
546 West Kenneth ◎ 667-5581
SW 6TH CT INTERSECTS
555 Galvin Oscar ◎
566 Banker Duane G ◎ 666-9308
575 Relling Jack E ◎
576 Vacant
586 No Return

609

7TH CT NE (GRESHAM)—FROM 700 NE KANE DR WEST IN A SEMI-CIR

ZIP CODE 97030
2617 Vacant
2623 Bellefleur Timothy S ◎ 665-1479
2632★Berry Stan B ◎ 666-1962
2647 Harguth Vern A ◎ 666-7821
2673★Fuller Gregory J ◎ 666-8433
2676 Vacant
2737★Murphy James F ◎ 666-9197
2742 Vacant
2753★Eilers Tom G ◎ 667-5566
2766★Fehrenbach Dale A ◎ 661-2361
2782 Bartels Charles E 666-6629
2787 Watson Robt D ◎ 665-1813
NE VILLAGE SQUIRE AV INTERSECTS
2816★Watson Gerald W ◎ 667-8257
2832 Vacant
2845 Under Constn
2848 Under Constn
NE 7TH ST INTERSECTS
3075 Vacant
3085★De Wyn Jeff R 667-4584
3095★Mc Donnell Julie D Mrs 661-3825
3110 Vacant
3120★Lindermeier Debbie J 667-6746
3130 Vacant
3155 Skills Of Communication pro speaker-consultant 667-5636
★Campbell J W 667-5636
3165★Starr Joan E Mrs 667-2866
3175 Mc Elreath Patk 665-4867
3180★Thompson Don J 667-4053
3185 James Diane L Mrs 667-9406
3190 Vacant

610

ZIP CODE 97030
3511 Andersen Vern D ◎ 666-2294
3551 Busch David R 666-3103
3552 Hornbeck Michl 667-3771
3581 Olson Leonard J ◎ 666-5689
3582 Strong
3611★Bear Mark
3622 Arnell Michl 666-1258
3661 Thomson King O ◎ 666-5034
3671 Stockfleth Russell H ◎ 666-8190
3682 Cook Robt H ◎ 665-6846
3707 Herrera Roy A ◎ 665-3051
3712 Vacant
3721★Keating Thos K ◎ 665-3653
3726 Martin Jean A Mrs ◎ 665-9379
3744★Neubauer Steven D ◎ 666-7713
3753 Saxl Enterprises 667-9111
Columbian Coffee Co 667-9112
Continental Fireworks 667-9112
Emil's Mobile Fine Foods 667-9112
Saxl Emil W ◎ 667-9112
3767★Jones Steven P ◎ 661-3827
3768★Butson C Patk ◎ 661-1916
3779 Spaulding Jay A 666-5495
3782★Peters Gerald H ◎ 661-0403

604

7TH CT NW (GRESHAM)—FROM NW TOWLE AV WEST IN A SEMI-CIRCLE

ZIP CODE 97030
1555 Matheny Joye Jr 666-4607
1560 Cremer Ferdinand ◎ 665-5921
1580 Foreman James C ◎ 666-2038
1585 Garner Gene A ◎ 666-1869

642

7TH CT SW (GRESHAM)—FROM 2165 SW 8TH DR WEST

ZIP CODE 97030
2010★Peterson Gregory A ◎ 665-0903
2016 Santee
2022 Bates Ben ◎ 666-8375
2025 Flom David M ◎ 666-8830
2046★Zuern Ron
2057 Jett Charles C ◎
2068 No Return
2089 Hortaleza G Z Jr ◎ 665-6835
2094 Barr Paul R ◎ 666-9329
2113 Lewis Douglas ◎ 661-1430
2122 Daggett
2125 Bellis
2146★Burke D J
2149★Hobbs Mich J 661-0803
2167★Sroufe Mark ◎
2170 Bamburg James 667-6051
2181 Thanem Ron H 667-4233
2184★Keefe Bernard D ◎ 661-4532
2190 Under Constn
2191 Vacant
2212 Vacant
2228★Pieterzack Theo L ◎ 665-0384

604

7TH PL NW (GRESHAM)—FROM 720 BELLA VISTA DR WEST

ZIP CODE 97030
1745 No Return
1775 Staton S K Mrs 667-0156
1780 Wolf Ronald R ◎ 666-4353
1815★Livermore David L 666-7463
1820 Tarmichael
1840 Frisco Harvey H ◎ 665-3278
1845★Walker Jan 661-1286
1875★Gibbs Frederic B 661-0446
1880 Ferguson Ray S ◎ 666-7779
1910 Drexler Rosa A Mrs ◎ 667-2501
1915 Wakefield Dan K ◎ 666-1617
1940 Streng Frank H ◎ 665-9752
1945 Simshaw Roger M ◎
1970 Lemoine Pete N ◎
1975 Mills Bert F ◎ 665-8443
2000 Knotts Guy D ◎
2005 Harlin Marion E ◎ 665-6980
2015 Barton Carl E ◎ 665-0726
2030 Welliver Gary S ◎ 665-9695
2035★Springfels Wm N 661-2050
2055 Swarthout Neil F Jr ◎ 665-6993
2060 Thomas Wm J ◎ 665-8817
NW CASCADE CT INTERSECTS
NW BIRDSDALE AV INTERSECTS
2220 Pedee Richd
2230★Norquist David
2240 Stevenson Wilford S Jr ◎ 665-5942
2245 Knudson James W ◎ 666-2693
2260★Sammons Charles E 665-7278
2275 Morden Wm E ◎ 667-5988
2320 Emmert Gerald R 665-0561
2325★Ginn James D ◎ 667-3427
2340 Hergert Agnes M Mrs ◎ 665-1674
2345 Wahl Lyle E ◎ 666-3556
2360★Schalk Robt H ◎
2380 Tempest Wm H ◎ 665-6947
2420 Woosley Leon K ◎ 666-2508
NW MAWRCREST DR INTERSECTS

600

7TH ST NE (GRESHAM)—FROM NE HOOD AV EAST 2 NORTH OF NE 5TH AV

ZIP CODE 97030
333 Riegelmann Appliance Whse (Stge)

609

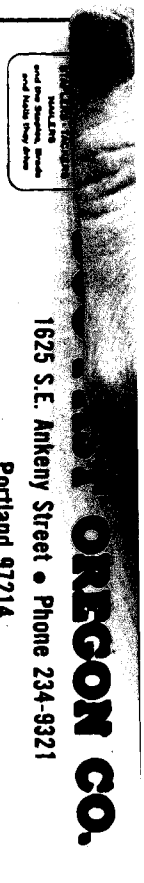
2275 Geiszler Jerald R ◎ 667-6351
2285★Lovelace Larry P 661-2609
2325 Skinner Wm H ◎ 665-3689

563

7TH ST NE (FAIRVIEW)—FROM 700 DEPOT ST SOUTHEAST

ZIP CODE 97024
45 Reuter Frank C 667-5704
50 Vacant
60 No Return
65★Sager Donald 667-4017
85 Vacant
MAIN ST INTERSECTS
305 Fairview Arms Apartments
1 Vander Horst Frans 667-5337
2★Anastasia Stephanie Mrs 665-8266
3★Gigliotti Eileen Mrs
4★Hall Marcia Mrs
5★Mc Daniel Judy Mrs
6 West John
7★West James
8 Christensen Rhonda Mrs 667-5785
9 Vacant
10★Newbold Terri L Mrs
11 Juhl Sharon Mrs 667-1541
12★Swanson Rebecca Mrs
13★Evans Regina Mrs
14 Mills Lawrence
15★Warren Donld
16★Rowland Maureen Mrs
17★Hover Cecelia Mrs
18 Walker Lori A Mrs 667-3287
19★Burchel Diana Mrs
20 Cristal Camille Mrs
21★Wasson Connie A Mrs
22 Nelson Flora Mrs 665-9729
23 Kuhlman Kevin
24 Waide Mary C Mrs 666-7424
25 Long Sharon Mrs 667-1372
26★Simons Mary Mrs

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NE 7TH ST (F)—Contd
27★Brown Anthony 665-2796
28★Hansen Carrie Mrs
29★Burnett Robt
30 Kleyne Johanna Mrs
31★Epperson Rondl
32 Brownlee Kathy A Mrs 666-2530
33★Nolan Jerry 666-3010
34★Deason Sandra Mrs
35 Dickinson Ila 665-3821
36 Bell Florence M Mrs 667-6894
37 Sayers Eliz T Mrs 666-6990
38 Mc Elroy Hazel I 667-3893
39★Coyle Jeanette
40★Zile Kathryn Mrs
41★Cvarak Bara Mrs 665-6243
42 Messineo Santina 667-2503
43 Ross Nelson 665-5927
44 Christey Eleanor 666-4798
45 Issacson Irene 667-4781

602

7TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST 5 SOUTH OF E POWELL BLVD

ZIP CODE 97030
510 Cubelic Marcus A ◎ 666-6135
515★Bilka Lanny D
525 Vacant
530 Bastenbeck Roy H ◎ 665-2947
605 Borchers Edw C ◎ 665-5922
610★Baltus Richd A
613 Depta Eliz Mrs ◎ 665-4629
620 Hill L Fern Mrs ◎ 665-5431
625 Kim Mary Mrs
630 Vacant
SE JUNIPER CT WEST INTERSECTS
700 Denton Gary L ◎ 666-8006
710 Ballard Kenneth M ◎ 665-2447
715 Meyer Douglas A 667-3644
720★Caddy Gertrude M Mrs 665-3905
725 White Keith H ◎ 666-1620
730 Irvin L Arlow 665-1234
S E JUNIPER CT EAST INTERSECTS
806 Nicolson Roy A ◎ 666-9940
815 Hutchison John C Rev ◎ 666-7808
820 Crawford Robt H ◎ 665-4519

606

SE VISTA AV INTERSECTS
1475 Vacant
1520 Wilson Hannan E 666-2950
1525 Stomps Erwin W ◎ 665-7490
1545 Pierce Saml H
1570 Vacant
1575★Freimarck Douglas A ◎ 667-8136
1590 Olson Otto N ◎ 666-5929
1595 Cavanaugh Milton F ◎ 665-3424
SE ATHERTON ST INTERSECTS
SE RENE AV INTERSECTS
2224 Briar Crest Condominiums
★Martinson Richd 661-1349
2226 Vacant
2228 Vacant
2230★Minckler Curt R 665-5582
2234 Schierman Helen 665-4020
Vacant
2236 Vacant
2238★Wilson Ralph 666-5765
2274★De Burger H M 666-4459
2276 Vacant
2282★Carson Barbara C Mrs ◎ 661-0335
2284★Raisler K A ◎ 667-3841
2286 Poche James E ◎
2288★Stanley C R ◎ 666-8775
2320 Vacant
2322★Campbell Kathleen A 661-1809
2340 Vacant (5 Hses 2340-2405)
2407★Bedich Anthony J 661-3404
2411★Smith Steven E 661-1086
2415 Danielson Richd A 665-6791
2417 Vacant
2421 Vacant
2425 Vacant
2437 No Return
2440★Gustafson Rick D
2450 No Return
2471★Keogan R 667-5321
2485★Sundeen J C 666-7937
2490 Vacant
2492★Martin A H 665-2998
SE LAMBERT CIR INTERSECTS
2585 Vacant
2587★Doern Steve A 667-0991
SE HALE PL INTERSECTS
3110 Vacant
SE PARAOPA PL INTERSECTS
3201 Vacant
3305 Vacant
3210 Under Constn
3217 Under Constn

610

SE PALOMA AV INTERESECTS
4006 Vacant
4009★Baley Wayne R 666-9679

300

7TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 6 SOUTH OF COLUMBIA ST

ZIP CODE 97060
145 No Return
146 Alexander Lloyd D ◎ 665-3402
SE DORA ST INTERSECTS
207 Lewis Nora E Mrs ◎ 665-4753
221★Hoogendam Marion 667-6074
242 Vacant

603

7TH ST SW (GRESHAM)—FROM 645 SW WALTERS RD WEST

ZIP CODE 97030
SW EASTMAN AV INTERSECTS
350★Sorensen Vernal T ◎ 665-5548
407 Larsen Alvin C 667-6250
410★Cooke Gary 667-4215
421 Lewis A B ◎ 667-8318
426 Bond Gerald C 665-0048
433 Bishop Clinton R 665-4782
SW NORMAN CT INTERSECTS
515 Payne Arnold T ◎ 666-4327
510 Munro Quentin D ◎ 667-5860
535 Snodgrass Jon D ◎ 667-0645
SW BLAINE PL INTERSECTS
555 Bennett Richd N ◎ 667-9428
575 Faatz Lawrence B ◎ 665-2428
SW SLERET AV INTERSECTS
615 Jansen Dave 666-7039
618★Ott John R 666-5096
633 Frey R G
638 Markham Gary T 667-2856
SW 5TH CT INTERSECTS
643 Dahmen Lawrence L 667-4749
657 De Vito Ralph P chem consultant ◎ 666-2607
671 Dailey Frank D ◎ 667-1125
674 Mason Jay E ◎ 667-4562
688★Harper Harold M 667-8074
SW 4TH ST INTERSECTS

300

7TH ST SW (TROUTDALE)—FROM BUXTON RD WEST 6 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Simons Frank T ◎ 665-5981
120★Barshaw Bardy D ◎
202 Hamme Clarence W ◎ 667-7760
206★Smith Wm Jr
212 Lewis Richd M ◎ 665-0510
218 Park Gerald R 667-3037
246★Murphy Edmund K 667-7316
300★Chapman J Barry 661-1249
301 Troutdale City Reservoir
302 Gier Bruce N
304★Osburn Mick I
304a★Culey Ricky L
306 Ruth Ernest L ◎ 665-5302

300

8TH CIR SW (TROUTDALE)—FROM 836 KINGS BYWAY EAST

ZIP CODE 97060
302★Mc Cann Larry I ◎ 667-0177
307 Wetherell Wm T ◎ 666-3387
315★Bartchy Lawrence ◎ 665-7445
320 Fulton Robt H ◎ 667-1394
323 Bush Charles S Jr ◎ 665-9705
SW KING'S BYWAY INTERSECTS
427 Johnson Gene R ◎ 667-7863
448★Savage R Scott 666-7929
452★Kahler Michl J ◎ 666-8743
529 Vacant
531 Vacant
536 Vacant
545 Arndt Lester W ◎ 665-7939

609

8TH CT NE (GRESHAM)—FROM 815 NE COCHRAN DR EAST

ZIP CODE 97030
2652 Derryberry F
2665★Howe Robt ◎ 665-6846
2672 Keller Paul D ◎ 665-9436
2695 Wilson G
2692 No Return
2702 Vacant
2712★Brown Richd L ◎ 661-4093

604

8TH CT NW (GRESHAM)—FROM 885 NW BIRDSDALE AV WEST

ZIP CODE 97030
2290 Vacant
2295★Hawthorne Steve ◎ 665-2295
2305 Kaster Ken C ◎ 667-1244
2310 Pettinger Leon F ◎ 665-9628

606

8TH CT SE (GRESHAM)—FROM 875 SE FLEMING AV EAST

ZIP CODE 97030
2420★Barbo Jess III
2422 Vacant
2430★Payne Wm L 666-1069
2432★Moore Fred E 667-7881
2440 Vacant
2442★Wilson L J Mrs ◎ 661-2954
2445★Warapins John 667-2618
2447 Vacant

642

8TH DR SW (GRESHAM)—FROM SW BIRDSDALE DR WEST 1 SOUTH OF W POWELL BLVD

ZIP CODE 97030
727★Schetzina Joseph P ◎ 666-4993
1526 Vacant
1533 Martin Harry ◎ 667-8146
1544 Anderson
1547★Lerwick David ◎
1558 Vacant
1561 Lewis James A ◎ 667-1991
1572★Ellis Tom ◎ 667-4753
1590★Kennedy Franklin D ◎ 665-2732
1616★Dorsey Bobby E ◎ 665-8974
1624 Hansen Robt ◎ 667-9062
1639★Burke Richd E ◎ 667-5282
1658 Mc Kee Ray D ◎ 665-8748
1682★Dual Bill M ◎ 666-2533
SW ORCHARD PL INTERSECTS
1730 Nash Ronald E 665-4977
1756 Cummings W M ◎ 665-8205
1765 Deangelo Michl
1774 Curler James S ◎ 666-8053

BUXTON RD 1980

SE BUSH ST—Contd
15051 Murphy James P 761-1406
15056 No Return
SE 151ST AV INTERSECTS
SE 154TH AV INTERSECTS
15421 Bledsoe
15426 Dixon James K ◎ 761-8175
15435★Landolt Randy A ◎ 760-4523
15440 Walker Gary L ◎ 761-1904
15452★Harris M T 760-4875
15453 Brittain Charles C ◎ 761-8783
15502★Mc Ghee Robt L Jr 761-1422
15505 Nicholson Max L 760-6351
15521 Jenson Paul T 761-6809
15524 Forsgren Neil ◎
15531 Bohr Walter E 761-2648
15534★Bryant J S 760-7090
15605 No Return
15610 Wing Wm J 760-1912

540
SE 165TH AV INTERSECTS
16504 Boyd Helen
16508 Searls Ron G 667-1240
16512 Dittman Ida Mrs 666-3097
16516★Van Horn Jeffry L 661-3625
16520★Beeler M 667-9501
16524★Irwin Wm
16527 Mc Guire John C ◎ 665-8766
16528★Roust Louis W 666-1918
16532 Bogenrief David 667-6670
SE 166TH AV INTERSECTS
16610 Mendenhall Mike L ◎ 665-2443
16620 Ackers Steve B 666-8167
16627★Ruppel Pat 666-5680
16642★Wood Maxine L Mrs ◎ 665-5720
SE 166TH CT BEGINS
SE 166TH PL INTERSECTS
16675★Duarte Gaynet E Mrs 667-5491
16680★Hughes Max F ◎ 661-2550
16691★Rabe Mitchell C ◎
16696★Mouser Gordon R
S E 167TH AV INTERSECTS
17002 Carmony Kenneth I ◎ 665-4801
17015 Boettcher Fred A ◎ 666-3984
17016 Pauker Joseph R ◎
17022★Austin Boyd J 667-6660
17027 Forkner James C Jr ◎ 666-6379
17035 Hefeneader Jim W ◎ 665-1375
17038 Dallman Marsha L Mrs ◎ 665-4050
17103 Washburn Gary A ◎ 666-1467
17106 Bowman Gary W ◎ 666-7692
17111 Henderson Saml B ◎ 666-4247
17118 Baker
17126 Barnhill Harold E ◎ 666-2058

611
BUTLER RD SW (GRESHAM)—FROM SE 190TH AV EAST 1 SOUTH OF SW 33D ST

ZIP CODE 97030
NUMBERED IRREGULARLY
bx160 No Return
bx164★Byer Larry B ◎ 665-6652
bx156 No Return
bx150★Bryan Connie L Mrs ◎ 666-3160
19796 Ashlock
bx146 Walker Steve 667-1712
bx144 Jones
bx140★Clinton Ralph N 665-3922
bx112 Eakins Marlin F 665-6495
20405 Gannon Ralph A 665-1029
bx111 Clinton Viola Mrs ◎ 665-2924
2060 Vacant
bx109 Hilton Bill W ◎ 665-1320
bx108 Holland Keith
bx104 Pokorny Geo W ◎ 665-8219
bx103 Mitchell John C 665-4876

300
BUXTON RD (TROUTDALE)—FROM COLUMBIA ST SOUTH 1 EAST OF SW KENDALL ST

ZIP CODE 97060
127 Delrose Fred E 667-7054
146★Britton Sid A 665-8347
SE 2D ST INTERSECTS
223 Troutdale Postal Serv 665-3898
224 Jones Ronald A ◎ 667-3645
SE 3D ST INTERSECTS
SE 4TH ST INTERSECTS
412★Dunn V L 665-2306
420 Taylor Dave A 665-7266
425★Shaw M A
SE 5TH ST INTERSECTS
525★Van Meter Lynette M Mrs ◎ 667-1172
526★Dvteull Edw 665-0068
528 Mendenhall Judith L Mrs
529 Under Constn
532★Evans David J
533★Dietrich Michl W ◎ 666-4915
536★Vik Dan G 666-8074
537★Murphy James
538 Vacant
SE 6TH ST INTERSECTS
608 Vacant
619 Stoeckel Alf P ◎ 665-0026
623 Nesbit Wm J ◎ 665-0423
641 Evans Jack S ◎ 665-2200
SE 7TH ST INTERSECTS
704 Vacant
746 Goad Lloyd A ◎ 666-7802
747 No Return
SE 8TH ST INTERSECTS
SW MARTINE CT INTERSECTS
803 No Return
823 Troutdale Conservative Bapt Church (Abbott Annex)
921 Troutdale Conservative Baptist Church 666-5617
1001 Peterson Ethel K Mrs ◎ 665-3806
1047 Scroggs Harry C 666-6541

566
BYBEE BLVD SE —FROM 6934 SE 48TH AV EAST

ZIP CODE 97206
4806 Hashimoto Takashi 777-5215
4816★Degenovo Matt
4816½ Vacant
4840 Naylor Herbert A ◎ 774-2541
4848★Blenton Merle M 775-0104
4851 Sullivan Robt A ◎ 774-2446
4900 Gardner Charles R ◎ 771-3501
4911★Gerba Nicholas S ◎ 771-7216
4919 Larson Warner M 774-6371
4924 Ferguson James C ◎ 777-1825
4927 Bippus Elsa M Mrs ◎ 771-1338
4934 Hagen Swen O ◎ 774-2591
4943 Vacant
4951 Rosengreen Carl ◎ 775-3954
4963 Dusty's jan serv 775-5220
Knapp Manley W ◎ 775-5220
SE 50TH AV INTERSECTS
5004 Marks Allan 777-2356
5014 Cole Merton C ◎ 774-1488
5024 Abrahams Leonard A ◎ 777-5401
5035★Cinnamon Steven R 774-1570
5036★May Wallace L 771-0120
5044 Burri Sam W ◎ 771-5571
5047★Foulkner Nancy A Mrs 777-0623
5059 Banwart Ray ◎
5107 Apartments
1 Vacant
2★Krieg Alden F Jr 775-6069
3 Sckavone Bob J 774-2665
4 Perry Delphine
5120 Wagner Steve D ◎ 775-4559
5128★Shawver G A ◎ 775-0769
5141★Peterson Leonard J 775-2746

564
SE 52D AV INTERSECTS
5215★Grant L ◎ 774-2517
5230 Gyurgyik Frank
5231 Balogh Arth J ◎ 774-1724
5232 Griggs Bruce W ◎ 777-4969
5243 Kilthau V J ◎ 775-5184
5243a Ennis Ruth 774-2306
5251 Driskell Tom R ◎
5254 Bennett Ernest 775-1906
5303 Christopherson Pauline ◎ 771-5984
5304★Tucker David ◎ 771-5688
5314 Newton Gertrude M Mrs ◎ 774-4695
5317 Vacant
5325★Peterson Monte A 775-0087
5334 Fleming Jack M ◎ 771-8179
5344 Seifert Gary J ◎ 775-3854
5345★Redding Wm J ◎ 775-9346
5355 Nelson Larry C ◎ 775-0110
SE 54TH AV INTERSECTS
5406★Edwards Randal L ◎ 775-3065
5407 Phegley Marie Mrs ◎ 775-5234
5422 Winkel Matthew J ◎ 775-0781
5436 Nelson Zenna V Mrs ◎ 774-5586
5437 Frankland Larry B 775-5524
5505 Vacant
5516 Smith Ann M Mrs ◎ 774-7346
5517 Corbett Marjorie E Mrs 771-8254
5530★Channel Gary ◎ 775-7264
5531 Johnson Roger L ◎ 775-9750
5601 Forayter Glenn L ◎ 774-9511
5606 Odgers Helen M Mrs ◎ 774-4735
5615 Moreland Fred ◎ 774-0829
5624 Greer Ila B Mrs ◎ 77-4459
5625 Zimmerman James B ◎
5638 Blarjeske John V ◎ 771-4728
SE 57TH AV INTERSECTS

558
SE 72D AV INTERSECTS
7251★Derheimer Albert S ◎ 771-1420
7305 Ebeling Richd 775-7267
7306 Schoenecker Charles J ◎ 775-0661
7317 Fritsch Frances L Mrs ◎ 771-1923
7318★Shaffer Patricia 774-0126
7325★Brunkow Timothy D 777-6579
7336 Gallo Tony ◎
7337 Miller Don J genl contr ◎ 774-7440
SE 74TH AV INTERSECTS
7409★Ashenborner Melvin H
7425 Vacant
7429 No Return
7444 Cooper Lloyd R ◎ 774-5939
7445 Lazarus Wayne E ◎ 771-8186
7452★Weiskop Lee 775-4901
7504★Prouty R L 777-5180
7505 Brown John
7516 Squires Clifford H ◎ 774-1315
7517 Duzan Floella Mrs ◎ 777-1162
7534 Cloud Danl ◎
SE 76TH AV INTERSECTS
7622 Hinkson Marjorie ◎ 774-7697
7640 Mc Demmid John W 774-4356
7642★Myers Richd C
SE 77TH AV INTERSECTS
SE 78TH AV INTERSECTS
7803 Bennett Philip E 775-1959
7824 Gibson Hazel E Mrs ◎ 774-0706
7825 Loftus Thos ◎
7830 Clark Walter R ◎ 771-3028
7905 Harris Letha M Mrs ◎ 771-9595
7911 Sanford Quintin E ◎ 771-9834
7912★Litowitz Gary S 775-0153
7917 Cooper David 774-6055
7920 Harmon Edw S ◎
7935 Edmonds Penny A Mrs 775-7995
7937 Krohn Amy G Mrs ◎ 775-7964
7939★Amoth Pamela
8003 Vacant
8005 Vacant
8007 Springer Brian D
8008 Nelson Cecil C 774-5197
8012★Bruce Robt I 771-2972
8015 Wilks J Lois 774-2040
8016★Ernst Walter 775-4522
8020 Canham Lyle D ◎ 775-7577
8021 Vacant
8025 Vacant
8050★Lowrey Joseph
8050a★Patrick Vance
8055 Arnett Jane Mrs ◎ 774-3608
Arnett's South East Answering Service 774-3201
8065★Royse Dave
8102 Reiter Ethel M Mrs ◎ 771-8706
8110 Foster Donald F ◎ 774-2600
8115★Stibbe Gilbert R
8117★Royse Margt Mrs
8119 Vandervort Steven W 777-5135
8120★Jiggar Terry B 777-2086
8132 Borner Paul
8142★Canham Dwayne A
8152★Davis David A 775-3841

556
ZIP CODE 97236
12215 Vacant
12223 Dockter Robt D ◎ 761-7558
12345★Teeters Gregory G Jr ◎ 761-5147
12400 Oslund Roy M ◎ 761-4989
12417 Horney Clyde E ◎ 761-2444
12424 Sander John S ◎ 761-4082
12425 Schroeder Richd E ◎ 761-6203

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SE DIVISION ST—Contd
30★Lewis Karen K 761-1149
STREET CONTINUED
17930★Steeck Roger 761-4041
17930½★Buckley Marine A Mrs
18010 Vacant
18029 Tinner Walter S 761-6007
18040 Vacant
18110 Rockwood Animal Hospital 665-1194
18145 B & H Texaco Service 666-8198
18150 Vacant

512
DIVISION ST SE (GRESHAM)—FROM SE 182D AV EAST 1 SOUTH OF SE CARUTHERS ST

ZIP CODE 97030
18222 Hoskins Mobil Service 665-6739
18236 Plaid Pantry No 34 gro 666-5341
18238 Bill's Beef House 665-9013
18316 Bryant Charles 667-0202
18318 Metzger Thos A ◎ 666-2443
18400 A & A Vacuum And Sewing Center ret sls & serv 667-3399
Vacant
18415 International King's Table restr 666-3123
18437★Vincent Carrie 661-1040
18440 Shelly Donald E ◎ 665-2647
SE 185TH AV INTERSECTS
SE 186TH CT INTERSECTS
18633 Vacant
18630 Covenant Presbyterian Church 665-5775
18635 Vacant (5 Hses 18635-18643)
18637★Hogan Donald
18639★Wert Robt A 661-7517
18641★Bucey Lee
18643 Vacant
18645★Wood Thos B 665-1665
SE 187TH PL INTERSECTS
18707 Vacant
18721 Miller Gene A ◎ 665-2262
18730 No Return
18737★Bozonna Mariceta
18741 Rigg Neale F ◎
18756 Thomas Chester A ◎ 665-3367
18805 Kato Joe T ◎ 665-2055
18810 Wetzel Wayne E ◎ 666-4134
18822 Hubert Charles ◎ 665-6349
18829 Coelyn Anton E ◎ 665-9867
18908 Stickel Raymond G ◎
18909 Marx Donald E ◎ 665-0580
SE 190TH AV INTERSECTS
19008 Starr Homer L ◎ 665-2335
19025 Vacant
19026 Vidito Ralph A ◎
19027 Under Constn
19034★Fisher John D 666-1152
19042★Davis Roger F
19045 Vacant
19047 Vacant
19050 Bensel Wm R ◎ 666-2260
19081★Huxtable Ross P ◎ 667-2603
19139 Gabbey Clifford F 665-1844
19201 Gresham Court Club recreation center 665-4142
19202 Hamilton Victor E ◎ 666-7101
19259★Griffith
19317★Schance Robt W
19340 Reeder Muriel W Mrs ◎ 665-6595
19410 Grimm Edw A ◎ 666-3990
19430 Gantenbein Henry C dairy farmer ◎ 665-5485
19431★Hendrickson David L 666-7781
SE 195TH AV INTERSECTS
19050 Bisby Shirley J Mrs 667-9454
19524 Gantenbein Robt H saw dust dlr ◎ 665-8618
19526 Grimm Paul A
19575 Bud's Tire Co 666-1133

300
DOOLITTLE CT (TROUTDALE) FROM 650 SW CHERRY PARK RD SOUTH

ZIP CODE 97060
1119★Swore Bill E ◎ 661-1240
1121★Hanson G H 666-9216
1124 Gabriel S J 665-6515
1136★Culver Steven A ◎ 667-9691
1138 Vacant

300
DORA CT SE (TROUTDALE)—FROM SE 21ST ST NORTH

ZIP CODE 97060
3702★Whittenberg David 665-4676
3707★Adams Marylee Mrs 667-2392
3710★Grubb Raymond 666-6622
3715★Coigny John V ◎ 667-4038
3722★Silberman David P ◎ 665-6403
3727★Dodfarmay Ablogbosem ◎ 661-0931
3735★Bechler Greg 667-1766
3738★Kraus Kenneth W 666-9639
3812 Vacant
3815★Smith
3820★Morris Paul E 667-7001
3825★Hunt Charles J 661-2067
3831★Allen Ralph 667-4255
3834★Le Roque M
3900 Vacant
3910★Kirk H Eug ◎ 667-9413
3927★Westin Richd V 667-2381
SE 40TH AV INTERSECTS

300
DORA ST SE (TROUTDALE)—FROM E COLUMBIA ST SOUTH 1 EAST OF BUXTON RD

ZIP CODE 97060
130 Tummy Time Deli 667-0808
141 Oregon Bank The 665-9131
SE 2D ST INTERSECTS
201 Burnett Gary G dentist 665-3416
225★Bales Elva A ◎ 667-1936
234a★Allen Frances 665-1366
234b Taylor Thos M ◎ 667-2289
235 Sanz Susan Mrs 666-1912
243★Minner Glen R ◎ 667-3786
246 Glenn Lillian G Mrs ◎ 665-3398
SE 3D ST INTERSECTS
327 Ramsey Daryld R bldg contr ◎ 665-8822
349 Hayes Kenneth L ◎
SE 4TH ST INTERSECTS
SE 5TH ST INTERSECTS
531★Lucas Walter R ◎
534 Jackson Maynard D ◎
SE 6TH ST INTERSECTS
SE 7TH ST INTERSECTS
708 Vacant
710 Behnke Donna Mrs
713 Monroe Steven W ◎ 667-3784
746 Blackwell Marshall V ◎ 665-1001

300
DOUGLASS CT SE (TROUTDALE) FROM 803 SE SWEETBRIAR LA SOUTH

ZIP CODE 97060
3717★Sherwood Ronald 666-3002
3718★Collier David E
3720 Monarch Building Maintenance 667-2747
★Hickman David J ◎ 667-3372
3723★Hamburg James D ◎ 666-7226
3812★Angell Howard R ◎
3815★Mack Robt
3821★Andreotti Emilio R ◎ 665-2930
3824★Keller Joseph A 665-2700
3833★Whitehead Gary 666-3909
3903★Niemi Wm ◎ 665-5619
3906★Russell Mike 665-5875
3914★Brooks Ben D ◎
3917★Brice Keith 661-2382
3922★Mc Connell Jerry 665-5546

603
DOWSETT LA SE (GRESHAM)—FROM 860 SE ROBERTS AV EAST

ZIP CODE 97030
620 Flanagin Richd J ◎ 665-3975
650 Hibbard Patk B ◎ 666-2092
655 Rinker Robt F ◎ 665-3415
923 Turnboga James E 665-6523
925 Vacant
JOHNSON CREEK CROSSES
935 Benner Walter E ◎ 665-5294

556
DUKE ST SE —FROM SE 110TH AV EAST 1 SOUTH OF SE FOSTER RD

ZIP CODE 97266
SE 110TH DR INTERSECTS
11002 Burbank Harold 760-4146

300
DUNBAR PL SW (TROUTDALE) FROM 2110 SW 24TH ST NORTH

ZIP CODE 97060
2331 Vacant
2320 Under Constn
2325★Middleton Lloyd R ◎ 661-3261

642
DUNIWAY AV SW (GRESHAM) FROM SW 3D ST SOUTH 1 EAST OF SW NANCY AV

ZIP CODE 97030
350 Kernspeck Werner ◎ 667-5147
365★Lacin Felix L ◎ 667-0866
395 O'Dell Karen Mrs ◎
415 Hankins Kenneth C ◎ 667-8148

606
EAGLE AV SE (GRESHAM)—FROM 27143 SE CHASE RD SOUTH

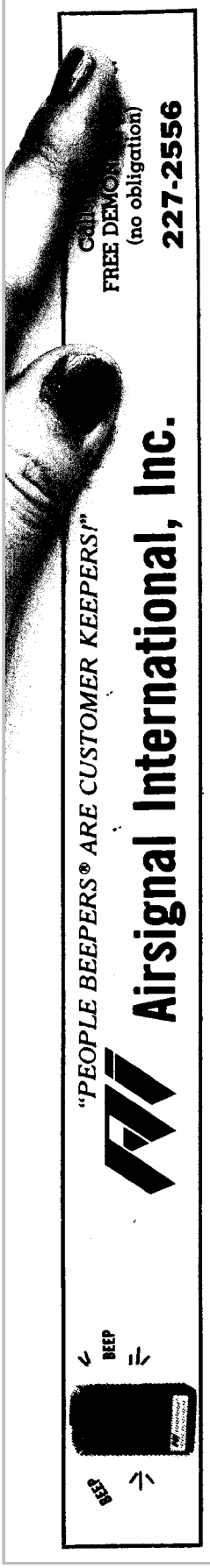
ZIP CODE 97030
2533 Seibel Doug P ◎ 663-5708
2548 Vacant
2567 Sidebottom Joseph 663-6871
2590★Kerraugh
2653 Lawson Jerry 661-1788
SE 27TH ST INERSECTS
2737 Vacant
2787 Vacant
2827 Cornett Harlin ◎ 663-5142

605
EARL AV NW (GRESHAM)—FROM NW 8TH ST NORTH 1 WEST OF N MAIN AV

ZIP CODE 97030
817★Hartle Jas
820 Clanahan Gladys M Mrs 665-3744
Yeomans Raymond E 666-4377
833 Vichas Paul G 667-6764
835 Cloe Shirley J Mrs ◎ 666-2266
840★Nelson Jas L 666-4717
843 Taylor Janet
860 Helyer Virginia M 665-6570
880 Youngberg Ann H Mrs 666-1498
900 Anderson Vivian Mrs 666-2209
920 Vacant
940★Davis Helen

605
EARL CT NW —(GRESHAM)-FROM 155 NW 20TH ST NORTH

ZIP CODE 97030





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KIBLING ST SE (TROUTDALE) FROM E COLUMBIA ST SOUTH 3 EAST OF BUXTON RD

ZIP CODE 97060
104 Troutdale City Hall 665-5175
T City Admn
T City Mayor
T City Commissioners
T City Recorder
City Public Wks Dept
T City Sewer Dept
T City Treasurer
T City Water Bureau
T City Planning Dept
Troutdale Historical Society organ-meets
2D ST INTERSECTS
246 Akerson R M 666-4882
SE 3D ST INTERSECTS
342 Schatz Geo J ◎ 665-5013
408 Wright Jim A ◎ 665-0288
423 Scott Leroy M ◎ 665-8077
446 Kempe Curtis L ◎ 665-0836

501

KILLINGSWORTH ST NE —FROM 5600 NE 42D AV EAST

ZIP CODE 97218
4205 Awful Bros gas sta
4215 Vacant
4238 Aladdin Printing Co 281-7837
4240 Van Zee La Velle
4242 Vacant
4250 Rusch Joe & Son Inc sht mtl wks 288-1546
4252★Dementz Imez 281-7527
4262 Cascade Archery Co sporting goods 287-2282
4262½ Misfeldt Emmett P 282-4150
NE 43D AV INTERSECTS
4326 Killingsworth Medical Dental Building
Done Robt W phys 284-2181
Morrell Gerald T dentist 282-5327
Tinkle James S dentist 282-1447
4329a R-K Amusement Co (Whse) 282-1735
4329b K D F Remodeling (Stge) 282-9624
4329c Blair's Specialty Mfg Co wood prods 288-3566
4331 Vacant
4337 Forty-Third & K Dry Cleaning 284-4488
4339 Plaid Pantry Market No 44 284-8678
NE 44TH AV INTERSECTS
4402 Hoak John E ◎ 288-3441
4405 Laws E J
4425 Judkins G J 288-2452
4430 Vacant
4434 Shalomar Apartments 249-8294
4434a★Norma Nellie
4434b★Dubase Joseph
4434c★Schottenfield Attley
4438a Vacant
4438b★Nelson Etoria Mrs
4438★Chambliss Mc Kerly D Jr 287-3411
4439★Harvey Jack R 284-3354
4442a★Wright Beverly A 287-0777
4442b★Rivers Geraldine
4442c★Morris Wm F 249-8294
4442d★Montgomery Willis
4448★Harris Joseph L
NE 45TH AV INTERSECTS
4501 Pezzolo Albina ◎ 284-1500
4502 Colony Court The apts
★Young Charles O 288-3679
4504 Yost Betty
4506 Krieger Philip 282-0307
4508 Foos Christina Mrs 284-6034
4512★Mills Molly 287-6131
4514 Helzer Frieda Mrs 281-5125
4516 Bemis Paul
4518 Bellmore Bernice 287-1616
4520★Houts Lee 249-1760
4522★Gallow S L 249-0085
4529 Sweetbriar Apartments
1 Gallou
2 Duncan Leslie A 287-1654
3 Kent Harold P 281-3129
4★Mc Carthy F
5★Paradis S L 281-5634
6 Perry Charles H 281-2671
7★Senff Sherman 282-9686
8 Latham Ector B 287-1701
9 Lamont Martha 282-0658
10★Hershey
11 Eichler
12 White
14 Nagel Kimberley
15 Kahn Lena
16 Hempel Chester A 281-4953
17★Thomas Roberta S 284-8610
18 Grekoff
19 Pierce
20★Dammon Douglas 284-5593
21 Perry Anthony 287-4781
22★Stone P M 282-4026
23 Miller
24★Shagaga Fathi Rajae 282-4608
25 Pigman Arzelie J 282-8314
STREET CONTINUED
4552 Petty Douglas ◎ 284-9300
4556 Oak Leaf Trailer Court 282-5178
1 Young Orville D 287-2345
2 Bailey Thos J 281-9095
3 Hansen Edna 282-8616
4 Myers Les
5★Muller Karl 288-1870
6 Rogers Johnnie H
7 Cantwell Elsie
8 Kuelbs Herbert G 287-6029
9 Klaus Henry 284-3047
10 Dayton R J
12 Toia Bart
13 Grossoehme Joan Mrs 284-7193
14 Balke Josephine Mrs 281-4652
15 Reed Lillian
16 Roth Clarence R 288-3464
17 Griffin Raymond 287-2103
18 Vickery Clara
20 Garlock Thos 287-1749
21★Roper Alan K 284-4648
22 Vacant
23★Mueller Edw J 249-0366
24★Horn John
25 Kranc Milton L 282-9185
26 Dalton Merle Mrs 282-4682
27 Wiseman Patricia 249-0824
28 Ellis Grace
29 Pitchford Ethel 284-9053
30 Spencer Verda M 282-1477
31★Bausch Al
32★Gill Theresa L 288-2865
33★Dobyne Robt T 284-8878
34 Walden Millie P Mrs 288-2174
36 Lamarr Donna
NE 46TH AV INTERSECTS
4600 Systems For Tomorrow mach shop 281-7255
4601 German Motor import auto repr 284-7766
4602 Carlson John Auto Body repr
4605 Normandy Apartments
1★Fish Carolyn
2★Hayes Kristie T Mrs 284-1693
3 Lucy Wm W 249-0757
4★Hudson Cath
5★Blanchard Cath
6★Stage Nancy
7★Jarden Amairian
8 Vacant
9★Anderson Wayne C 287-2035
10★Erickson Vera M 284-2988
11★Williams Lila 288-3762
12★Frambrough Jesse Mrs
13★Creech Thos
14★Ownby James
15★Cartwright Sandra
16★Barnes Terry
17★Behner Carlo
18★Gibson Gregory
4609 Vacant
4613 Columbian The apts 281-1382
1★Stratter Henry
2★Granvill Wanda J Mrs 249-2015
3 Vacant
4★Tuttle Kirk
4615 Columbian The
5★Rich Patricia
6★Mouakad John
7★Shalimar Sunday
8★Giamal Abdul
4617 Columbian The
9 Haskins
10★Harrison Margt
11★Reinerson Lee
12★Barah Frank 249-3913
4619 Columbian The
12b★Laswad Salah M 282-6306
14★Barnes Leanne M
15★Humphrey Eliz
16★Smith Annie L
4620 Bogue Charles E ◎ 282-7032
4621 Columbian The
17★Hunt Kim J 288-0323
18 Stone Delores Mrs 281-7634
19 Delouiz Natalie
20★Mathews Vicki
21★Sorbor Norman A 281-1382
NE 46TH PL INTERSECTS
4644★Whitemore Willie 287-1411
4647 Ek Waldo S ◎ 281-5594
4648 Rust Edgar K ◎ 282-5136
4651 Columbian The
22★Ball James 281-0611
23★Reinking Vernon W 281-4220
24★Russell Alvin
25★Moore Shannon L 281-2679
4653 Columbian The
26★Giamal Saddegh F 284-8465
27★Gade Michl
28★Sinazoo Angelo
29★Ovens Jean
4654 O'Neal Josephine Mrs ◎ 281-4869
4655 Columbian The
30★Paugh Gary
31★Van Houten Peter S 284-0681
32★Earl Claudine
33★Daniels Keith 281-7223
4657 Columbian The
34★Bernard Gail
35★Austin Kathy 284-4846
36★Krumdieck Gary A 249-7231
★Brown Helen J 284-9342
NE 47TH AV INTERSECTS
4701★Elder Corkey 288-0378
4703★Finnell Alfreda 287-0518
4710 Fenney Curtis D ◎ 288-1004
4717 Vacant
4724 Worthington Mark L 287-8263
4736★Megan A 288-3549
NE 48TH AV INTERSECTS
4801 Vacant (3 Hses 4801-07)
4810 No Return
4813★Mc Kinney Ronald 281-5280
4815 Francisco Letha M Mrs ◎ 281-7872
4835 Engblom Allen W ◎ 288-8607
4849 Apartments
A★Throckmorton Mildred A 249-8419
B★Evans J
C Cameron Maxine M Mrs 287-2351
D★Lavell Pat
NE 49TH AV INTERSECTS
4900 No Return
4901★Kromm K
4903★Douglas Allen R 249-7237
4905★Bench Charles A
4907★Ford R ◎
4919★Casqueiro M M 282-4932
Davis D J 281-5747
Miller Max F 281-4029
4921★Johnson Margie 284-2001
Vacant
★Brown R 281-0384

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NE PAROPA CT (G)—Contd
1490★Baumgarden Gary ◎
1500★Poe Howard
1510★Hinton Steve
1516 Robanske Oscar T ◎
1520 Summers Joyce S Mrs ◎ 666-8064
1530 Vacant
1536 Rogers Carolyn Mrs ◎ 665-9788
1538★Hann Cal
1540★Stout Steve H 667-7015

609

PAROPA PL SE (GRESHAM)—FROM 3259 SE 5TH ST SOUTH

ZIP CODE 97030
515★Smith Charles L 661-4051
520 Vacant
533★Woittke L 665-1271
546★Mc Daniel Robt S 666-6391
559★Husky Carol L Mrs 665-1669
562 Vacant
576★Ban Venter Robt W 665-1474
580★Stover Everette G 665-9709

606

637 Vacant
649★Roberson Norm G ◎ 661-4197

609

PAROPA WY NE (GRESHAM)—FROM 335 NE KANE DR WEST AND NORTH

ZIP CODE 97030
315★Wach Stanley L ◎ 667-2328
320★Lambert Gerald E Jr ◎ 667-8073
325 Vacant
335 Vacant (3 Hses 335-355)
360 Kissell Lester E ◎ 666-4085
380 Anderson Robt G ◎ 667-3275
390 Bex Marshall L ◎ 667-5358
395 No Return
398 No Return
399 Mills Gerald F ◎ 667-3903
N E ROBIN CT INTERSECTS
425 Stout David M Rev ◎ 667-9079
430★Kunze James E
445 Klausman Wm J ◎ 667-0720
450★Griffith N H 667-0857
470 Bell Jefferson B ◎ 665-5047
490 Miller Robt D ◎ 665-4741

300

PELTON AV SE (TROUTDALE) FROM 3155 SE EVANS AV SOUTH

ZIP CODE 97060
3125★Brown Ronald
3140★Graham David A ◎ 667-0597
3160★Sassen
3180★Bennett John D ◎ 667-0355
3230★Gilliam Dennis P ◎ 667-9786
3255★Matheny Keary 666-3125
3260★Graebe Arth L 666-8181
3265★Bowyer Stan L 667-9487
3290★Drake C Wayne 666-8335
3295★Frost Jack D 667-6593
3330★Hawthorne
3335 Vacant
3355★Zapel Michl P ◎ 666-3353
3360★Arnold Gary
3370 Vacant
3375★Thompson J P
3380★Kowalski Kenneth W 665-1812
3390★Gallo Chas C 666-1906
3395★Lemieux Thos G 665-3222
SE 34TH CIR INTERSECTS
3400★Dombroff Gary 667-9061
3450★Davis Eug L ◎ 666-8392
3470★Sievers Larry C ◎ 666-4309
3475★Dixson Jeffrey R ◎ 667-3875
3500★De Lano Frank J ◎ 665-8593
3530★Kellogg Christopher B 665-1284
3550★Webb R M
3575★Marshall Wm 665-0990
3580★Strous Larry A ◎ 661-2499
3595★Moe John A ◎ 667-4696
SW 36TH ST INTERSECTS
3600★Taylor Paul D ◎ 666-7057
3680★Baker F K
3695★Randall Warren R ◎ 661-1545
3700★Cheney M D 665-6252
3725 Vacant
3730 Vacant
3750★Hicks Douglas K ◎
3755★Larsen David W ◎ 666-7789
3770★Mendenhall Seth C 661-1468
3775★Schmelzer H A 667-5101
3795★Herold Terry L 665-4047
3800★Woodruff Edwin P ◎
3820 Vacant
3825★Schrock Ida J 667-3787
3835★Rinehaf John F ◎ 665-5390
3840★Turner Earl W 667-2656
3860★Newsom Jack W 665-5712
3880 Vacant
SE PELTON CIR INTERSECTS
3900 Vacant
SE SWEETBRIAR LA INTERSECTS

300

PELTON CIR SE (TROUTDALE) FROM 3880 SE PELTON AV WEST

ZIP CODE 97060
3845★Autry Allen D ◎ 666-3073
3855★Nored Dean 667-6021
3875★Saperstein Dell S ◎ 665-7587
3895★Hammond Floyd E ◎ 665-1585
SE PELTON CT INTERSECTS

300

PELTON CT SE (TROUTDALE)—FROM 1213 SE 26TH ST NORTH

ZIP CODE 97060
2530 Vacant
2542 Vacant
2546★Allen Michl D ◎ 661-2366
2553★Campbell Gale 667-2095
2557 No Return
2613★Buffum
2625★Schaefer Rick A ◎ 661-2125

300

PENETON LA SW (TROUTDALE) FROM 1138 SW CHERRY PK RD WEST

ZIP CODE 97060

300

PENQUIN PL SE (TROUTDALE) FROM 431 SE 5TH ST SOUTH

ZIP CODE 97060
410 Schooley Steph R ◎
420 Memmott Dale ◎ 667-4381
430 Vacant

542

PERSHING CT SE (GRESHAM) FROM SE 180TH AV EAST 1 NORTH OF SE HAIG DR

ZIP CODE 97030
18010 Mc Laughlin James C ◎ 761-4088
18011 Noteboom Duane ◎ 761-4126
18029 Bitney Roht B ◎ 760-4740
18030★Jondahl Eric L 761-7710
18040 Kistner Donald R ◎ 665-2279
18041 Michael Richd ◎ 665-2776
18044 O'Brien Wendy S Mrs ◎

602

PHOEBE CT SE (GRESHAM)—FROM 2243 SE CLEVELAND AV WEST IN A SEMI-CIR

ZIP CODE 97030
828★Marshall Jim 666-8229
831 Morgan Marvin C ◎ 667-1744
846 Syron Larry ◎ 665-8710
863 Callicotte Harry L ◎ 666-4634
884 Smith Harold V ◎ 667-1242
903 Bowling James ◎ 666-5072
912★Witherow Wm L ◎
929 Mc Intire Donald ◎ 666-4451
944★Rausheck John L 667-4552
976 Pool Frank E Jr 665-7250

642

PHYLLIS CT NW (GRESHAM)—FROM NW 1ST ST NORTH 1 EAST OF NW GIESE AV

ZIP CODE 97030
35 Jepson Wilbur W pntg contr ◎ 667-6794
40 Harris Gene E ◎ 667-6225
75 Newlun Wm K ◎ 665-1667
90 Wyatt Paul ◎ 665-0318
102 No Return
105 Griffith R ◎ 667-5364
Scarborough J ◎
122 Baxter H Craig ◎ 666-7607
125 Schlutz Marie ◎ 667-1494
152 Adam Connie Mrs ◎ 667-8379
155 Johnson Robt F
192 West Timothy R ◎ 667-6469
195 Dorin Melvin D ◎ 666-6493
209★Gilachist Robt J 665-3838
210★Nicholson Harry A ◎ 666-2776
211★Smith Ralf E ◎ 661-0705
215 Madsen Gail F ◎ 665-7884
220 Krum Keith ◎ 667-3370
230★Churchill Wm R ◎ 667-5295
231 Vacant
270★Mays Virgil C
275★Templeton Albert A ◎ 666-3951

547

PINE CT SE —FROM DEAD END WEST 2 EAST OF SE 113TH AV

ZIP CODE 97216
10944 Bull Kenneth ◎ 252-1693
10948★Hamel Michl ◎ 254-6691
10955 Bachhuber Mary J Mrs ◎
10958 Sirianni Rudy E ◎ 253-3048
11005 Gianoli Charles L ◎ 255-9668
11006 Johnson Roy L Rev ◎ 252-9554
SE 111TH AV INTERSECTS
SE 113TH AV INTERSECTS
11204 Jeter Harold A 252-6875
11205 Dunaway Thos F ◎ 253-9159
11208 Smith Maurice M ◎ 254-4674
11209 Bowman John C ◎ 255-0369
11216 Chase Morris ◎ 253-0442
11220 Mc Whorter Jay A ◎ 253-3070
11221 Parks Walter N Jr ◎ 254-8905
11224★Kora Maso M Jr ◎ 253-5528
11228 Anderson Jack E ◎ 253-9098
11236 Leidig Lois M Mrs ◎ 254-3535
11241 Olcott Richd H 253-9092
11242 Stempel Ernest C ◎ 253-0888
11254 Mc Connell Grace M Mrs ◎ 253-0697
11255 England Donald L ◎ 254-7619
11262 Culver Lyle L ◎ 256-2654
11268 Haygarth Thos V ◎
11275 Barrio Randall 256-5270
11276 Ferris Don N ◎ 255-8012
11278 Kim Yu Chun ◎ 256-1739
11282 Rowley David T 255-4529
11283 Long Bill ◎
11286 Bird Ruby Y Mrs ◎ 254-2376
11291 Mc Carthy Donald P ◎ 252-1864
11292 Hardegger Richd J ◎ 252-0059

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SE 5TH ST (T)—Contd
131★Brandon Kent D 666-6607
136★Morgan Dale I 665-5285
148 Bourne Fredk ◎ 666-7837
SE DORA ST INTERSECTS
235★Jackson Walter C
244 Ferguson Bill E 666-2961
245 Kramer David ◎ 666-5014
SE HARLOW ST INTERSECTS
SE KIBLING ST INTERSECTS
408 Mc Pherren Lyle F ◎ 665-8878
431★Young Richd ◎

642
5TH DR SW (GRESHAM)—FROM 3940 SE 182D AV EAST

3660★Richards Stewart W ◎ 667-4909
3680 Young Byron U ◎ 665-4770
SW HARTLEY AV INTERSECTS
3720★Snider Gregory M ◎ 667-6687
3725★Garrett Robt ◎ 667-0285
3750 Holmes Dennis J ◎ 665-1824
3755★Romero Roy L 665-6997
3785★Grimes Melvin H 666-1894
3790 Stanley Harry ◎ 665-5446
3810★Shaw Steven M 666-1214
3835 Vacant
3845 Panza Joseph ◎ 667-4863
3850 O'Brien Jos F ◎ 667-2420
3875★Perica Gerald E 666-7717
3880 Vacant
SW DUNIWAY AV INTERSECTS
3905 Hare
3920 Mendiola Augusto N ◎ 665-7905
3925★Kling Thos M ◎ 667-1206
3965★Thompson Jack ◎ 665-4817
3970★Berkstresser M 665-4817
SW NANCY AV INTERSECTS
4000 Robinson Harold
4010 Schroeder John R ◎ 667-0988
4030 Koufafas Mich P ◎ 665-2644
★Lambert Doug 666-6890
4077 Sanders Charles J ◎ 667-7026
4080★Hill H H ◎ 666-6441
4110★Thomas Geo E ◎ 666-7548
4117 El-Khal Joseph T ◎ 667-5710
4127 Hohberg Henry P ◎ 667-2732
4130★Craven Larry L ◎ 665-9304
4167 Bauck Jerry ◎ 666-4872
4170★Grimm Gary A ◎ 665-4945

603
5TH ST SW (GRESHAM)—FROM 510 SW WALTERS DR EAST

ZIP CODE 97030
222 Nelson Scott R ◎ 665-6007

642
1573 Under Constn
1623 Vacant
1649 Vacant
1667 Vacant
1670 Vacant
1684 Flippen David W
1693 Under Constn
1698 Under Constn
1719★Lewis
1730 Under Constn
1747 Vacant
1754 Under Constn
1773 Vacant
1788 Vacant
1809 Vacant
1849 Vacant
1860 Vacant

610
6TH CT NE (GRESHAM)—FROM 595 NE SCOTT AV EAST

ZIP CODE 97030
3531★Murakami John D ◎ 666-2182
3553★Hutchison Donald O
★Hutchison Robin L ◎ 665-2808
3554 Sieverson Jack W ◎ 666-9269
3574 No Return
3583 Lind David E ◎ 666-4670
3586 Vacant
3588 Hutchinson Bill 665-4969
3590 Stinson Richd H 666-6034
3613 Chorney Stan 667-0951
3623 Snyder
3624 Cooper Wm R Jr 666-3978
3625 Olson Arth H ◎ 666-5006
3634 Looyens Louis F ◎ 667-5709
3636 Groesch M
3666 Akin James M ◎ 665-5635

604
6TH CT NW (GRESHAM)—FROM A POINT WEST OF 685 NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1520 Bross Robt E ◎ 666-3007
1555 Dorsing Ray M ◎
1560 York A Donald 666-2584
1580 Taylor Wm W ◎ 667-6066
1585★Fuller Michl

603
6TH CT SW (GRESHAM)—FROM 546 SW 6TH ST EAST IN A SEMI-CIR

ZIP CODE 97030
505 Downing Charles L ◎ 665-9075
513 Carbone Leo E ◎ 665-7468
523 Findlay Matt ◎ 667-7794
533 Cuda Anthony ◎ 666-5769
543 No Return
545 Baker Gregg ◎ 665-8604

604
6TH DR NW (GRESHAM)—FROM 620 BELLA VISTA DR WEST

ZIP CODE 97030
1780 Reed Ralph L ◎ 665-2621
1795★Miller Leonard
1800 King Miles A ◎ 665-3546
1825★Booth Audrey S 666-4071
1840 Rupp Frank M ◎ 665-7002
1855 Jackson K D Construction genl contrs 665-3949
Jackson Kurt D ◎ 665-3949
1860★Seargeants Paul L ◎ 665-1226
1885 Brownrigg Sena B Mrs ◎ 666-2310
1890 White Jack S ◎ 66-2679
1915 Wallen James H ◎ 665-0576
1920 Wilson Mae M Mrs ◎ 665-6979
1945 Marcus Melvin R ◎ 666-4111
1960 Alzner John O ◎ 666-2177
1975★Holt Robt L ◎ 667-5647
1980 Vacant
2005 Yutze Otto G ◎ 666-2602
2010 Thomas Peter T ◎ 665-7390
2020 Shepherd Alice M ◎ 665-7619
2025★Funk

604
6TH PL NW (GRESHAM)—FROM NW CASCADE CT WEST 1 SOUTH OF NW 7TH PL

ZIP CODE 97030
NW CASCADE CT INTERSECTS
2178 Carlson Patk A ◎ 666-9217
2185 Mason Victor R ◎
2198★Martin R E 667-2612
NW BIRDSDALE AV INTERSECTS

604
6TH PL SW (GRESHAM)—FROM SW TOWLE AV EAST 1 SOUTH OF SW 5TH PL

ZIP CODE 97030
1421 Zuiches Walter G 666-9246
1430 Higgins Construction Co 667-5808
Higgins Thos C ◎ 666-5754
1439 Hauser C Alan ◎ 666-7906
1445 Vacant
1448 Lindstrom Geo M ◎ 666-9063
1455★Mc Bain M
1470 Vandenbos Arlo L ◎ 666-7273
1471★Groepper Henry 667-3291
1489 Vacant
1492 Vacant

600
6TH ST NE (GRESHAM)—FROM NE LINDEN AV EAST 1 NORTH OF NE 5TH AV

ZIP CODE 97030
755 Beef Palace Distributing whol meat & frozen prod 666-9533
NE LINDEN AV INTERSECTS
830 B & M Fabrication 661-1303
890 Rothers Motors Inc auto repr 666-8601
895 County Dept Environmental Servs (Oprnts & Mtce) 665-5692

563
6TH ST NE (FAIRVIEW)—FROM 532 DEPOT ST SOUTHEAST

ZIP CODE 97024
25★Clift Raymond D ◎
30 Knaub Donld F ◎ 667-3384
MAIN ST INTERSECTS
150 Dumpprope Wilford 665-1291
160 Klinger Charles W 665-3226
175 Davidson Edw I ◎ 665-8220
Swirtz Frank E ◎ 665-1083
CEDAR ST INTERSECTS
235 Brinser Kenneth E ◎
245★Luster Robt D
255 Mullikin Diane R ◎ 666-6393
265 Ridinger Jeffrey R 667-6295
275 Burkey Sandra Mrs 666-2378
280★Shelton M A ◎ 665-0659
285 No Return
295★Howe Kathleen E 667-8079
HARRISON ST INTERSECTS
LINCOLN ST INTERSECTS
315 Olin Lanny R ◎
320 Callaway Orville ◎ 665-9728
340 Brinser John H ◎ 665-6241
345 No Return
360 Patton S E Mrs 666-7068
370★Steffy Richd M 667-8115
400 Sams Ken W
N E HALSEY ST INTERSECTS

605
6TH ST NW (GRESHAM)—FROM 620 NW DAY DR WEST

ZIP CODE 97030
790 Williams Cath T Mrs ◎ 665-3862
840 Mishima Henry ◎ 665-3475
NW 5TH ST INTERSECTS
875 Froese Oscar T ◎ 665-9719
890 Morgan Hector ◎ 665-7930
935 Kehret Ernest W ◎ 665-6921
975 Klingner Carl E ◎ 665-7381
NW OVERLOOK AV INTERSECTS
1095 Gee John R ◎ 665-2934
1200 Savage Charles H ◎ 665-6493

606
6TH ST SE (GRESHAM)—FROM 550 SE HOGAN AV EAST

ZIP CODE 97030
1905★Shockley Oscar L ◎ 666-8651
1930 K R D R Pacific Broadcasting Corp 667-1230
SE FRANCIS AV INTERSECTS
2180 Morfitt
SE RENE AV INTERSECTS
SE BARNES AV INTERSECTS

e
ied
ss
ry
Gresham 97030
TEL. 665-4948
21603 S.E. Stark St.

219

NE HANCOCK ST—Contd
30 Loggins M D 253-1957
31 Morgan Edw
32 Svendsen Lillie Mrs 252-9658
33 Lukich Peter Jr 252-3205
34★Alaman Jane Mrs 253-2693
35 Pearson Frank E
36 Holmberg Charles O 254-5644
37 Weinel Kurt H 252-8519
38 Burgos Erma Mrs 255-2083
39 Druffel Charlotte 252-2878
40 Flagel Esther 254-3387
41★Conroy Edw A 255-8696
42 Stingle Blanche A 253-0994
43 Alberts Wm 255-2632
44 Burda Saml 255-9462
10345 Phillips Henry ◎ 255-9186
NE 104TH AV INTERSECTS
10401 Tillotson Arth L ◎ 253-3910
10503 Erickson Charles E ◎ 255-2956
NE 108TH AV INTERSECTS
10805★Sime Terrence L ◎ 253-4084
10810 Vacant
10815 Sartor Harold ◎ 254-6973
10820★Leeds Marion
10825 Baker James G ◎ 255-2690
10830 Brick Dorothy L Mrs ◎ 254-6630
10905 Faist Agnes C Mrs ◎ 255-2037
10910 Haven Patricia L Mrs ◎ 253-9515
10915★De Vany John S ◎ 254-1108
10920 Varnado Glenn O ◎ 253-2982
10925 Heinichen Richard H ◎ 255-4428
10930 Shanahan Lloyd W ◎ 253-8810
11005 Kuffler Orville G ◎ 254-8503
11010 Miller Raymond H ◎ 252-0501
11015 Rowley Ovale M Mrs 254-4470
11020 Williams Delbert ◎ 252-8609
11025 Smith Winston A ◎ 254-0679
11030 Smith David W ◎ 256-0807

531

NE 120TH AV INTERSECTS
11955 Cermack Allen F ◎ 255-2245
12007 Zank Erwin A ◎ 252-4531
12019 Bouras Steve ◎ 252-0734
12025 Munsinger Lyle F ◎ 253-6955
12026 Blakely Robt E ◎ 253-7638
12051 Flaig Ervin R ◎ 253-9993
12109 No Return
12122 Schilling John ◎ 252-6763
12125 Graham Homer D ◎ 252-4278

533

ZIP CODE 97230
NE 126TH PL INTERSECTS
12634★Angell Donald I ◎ 253-8314
12650 Mowlds Audrian A ◎ 255-9449
12651 Torgerson Kenneth L ◎ 252-6141
NE 127TH AV INTERSECTS
NE 129TH AV INTERSECTS
12915 Mowry Frank L ◎ 254-7723
12916 Tuttle James M 253-1662
12923 Hyde Alvin G ◎ 253-2463
12924 Casey Jon T 254-8581
12938 Lyon John W ◎ 254-7100
12939 Hiatt Mabel L Mrs ◎ 253-9611
12946 Deer James W ◎ 254-8134
NE 130TH AV INTERSECTS
13007 Clark Dean L 254-0802
13008 Castillo Victor J ◎
13021 Lowell Percy A ◎ 254-5165
13022 Pinchin Wm J ◎ 252-7048
13038 Tucker Tom F ◎ 252-6173
13041★Rose John 253-9350
13108 Tovey Donald M ◎ 252-4784
13111★Curnell Patricia Mrs ◎ 253-2268
13121 Aitken Lorraine 253-0355
13122★Epton S L 256-1116
13135 Angell Charles T 255-7545

535

NE 134TH PL INTERSECTS
13455 Schmidt Lester J ◎ 254-4600
13526 Piercy Harold E ◎ 252-7375
13600 Schrag Alwyn J ◎ 254-4587
13601 Estes Marion L Mrs ◎ 253-5997
13625 Flood Gerry T ◎ 252-1910
13630 Burns Billy E 255-6128
NE 137TH AV INTERSECTS
NE 144TH AV INTERSECTS
14414 Cramer Wm A ◎ 255-1353
14415★Flip Gregory M ◎ 253-4742
14433★Sneyd Donald S ◎ 253-0267
14504 Killian John T 253-8527
14520 Jeddeloh Horst ◎ 255-2260
14525 Hill Steph B ◎ 255-1137
14537 Sundberg Emery N ◎ 252-2673
14540 Albertson Ewing E ◎ 253-6202
14607 Berry Allen G ◎ 252-7165
14608 Fairley Steph E ◎ 252-2225
14624 Morton Michl G ◎
14625 O'Byrne Bernard J ◎ 252-1974
14640★Reich Henry ◎ 252-3778
14641 Alton Harry M ◎ 254-6173
14705 Kansky Geo W ◎ 252-4346
14714 Wilson Construction Co power line contrs 253-4377
Wilson Matt O ◎ 256-1066
14719 Mc Manus Worth E ◎ 254-9639

525

NE ENQUIST WY INTERSECTS
17223 Yingling Kenneth F ◎ 253-2801

300

HARLOW AV SE (TROUTDALE) FROM 320 SE 12TH ST NORTH

ZIP CODE 97060
1111 Mc Clain Donna M Mrs ◎ 665-0904
1133 Hanna Brad ◎ 665-3740
1204 Baxter Douglas A ◎ 666-9165
1205 Talbot Walter B ◎
1216 Chappelle Robt L ◎ 665-6849
1217 No Return
1227★Ege Ken S ◎ 666-5935
1228 Helmer Thos E ◎ 665-9377
1230 Danens Wm J Jr ◎ 666-1710
1239 Hanes Steven I ◎ 666-8179

300

HARLOW PL SE (TROUTDALE) FROM 320 SE 12TH ST WEST

ZIP CODE 97060
1109 Munch Richd F ◎

300

HARLOW ST SE (TROUTDALE) FROM UP RR TRACKS SOUTH 2 EAST OF BUXTON RD

ZIP CODE 97060
100 Vacant
115 Union Pacific System Depot 665-6348
116 Moller's Nursery (Whse)
E COLUMBIA ST INTERSECTS
126 Imthurn Laura A Mrs ◎ 665-2967
Jones Alex M
138 Albin Luella Mrs ◎ 665-6665
SE 2D ST INTERSECTS
207 Ferch Walter W 665-3351
208 Foster Michl P 667-6057
234★Nunez Richd J
235 Chambers Clara Mrs ◎ 666-1470
236 No Return
243 Vacant
244 Jones Jayvan W ◎
SE 3D ST INTERSECTS
302 Parks John H Rev ◎ 665-0581
Troutdale Full Gospel Church
323★Stevenson Sam E 665-1270
SE 4TH ST INTERSECTS
411 Beatty Jackie L ◎ 666-3022
422 Pashek Betty J Mrs ◎ 666-2053
SE 5TH ST INTERSECTS
533 Cook Floyd W 667-6350
6TH ST INTERSECTS
603 Smith Eugenia Mrs ◎ 665-3346
648 Troutdale Grade School 665-4182

568

HARNEY DR SE —FROM SE 45TH AV EAST 1 SOUTH OF SE UMATILLA DR

ZIP CODE 97206
4502 Carousel Laundry 774-3196
4504 Petite Carts motorcycles go-carts 777-2294
4515 Thompson Frances R Mrs ◎ 775-8437
4543 Kramer O W ◎ 771-9536
4600 Precision Castparts Corp metal die casting 777-3881
4807 Vacant
4903 Egan Richd A 774-7962
4905 Grolbert Richd H ◎ 777-1967
4917 Felix Steph S ◎ 771-8710
4943 Ritthaler
5011 Rankin Eug E ◎
5027 Phillips Richd R ◎ 775-2304
5100 Crestview (Div Of White Stag) lou schultz mgr 777-1711
5111 Puckett Herbert ◎
SE 52D AV INTERSECTS
5200 White Stag Mfg clo mfrs 777-1711
5241 Stogsdill Ronald F 771-8522
5255 Britzius Elma Mrs ◎ 771-4137
5305 Crane Danny D
5308 Martin Mathias J ◎ 771-0170
5313 Torelle Joseph F ◎ 771-7096
5323 Conley Dennis Mrs 775-0829
5410 Laughlin Joseph M II ◎ 771-6888
Laughlin Joseph M ◎ 771-6888
5420 No Return
5430★Newsom J F 775-4118
5445 Borgensgard Naomi Mrs ◎ 771-2283
SE 55TH AV INTERSECTS
SE MALDEN DR INTERSECTS
5629 Hermle Steve ◎ 774-2260
5655 Grant Charles E ◎ 775-2159
SE 57TH AV INTERSECTS
5720 Stevens L D ◎ 771-6473
SE 58TH AV INTERSECTS
5835 Oswald Juergen ◎ 771-5806
5849 Hodge Matthew C ◎ 771-9202
5854 Sorenson Frank C ◎ 771-8364
5859★Blum Wilfred ◎
5872 Crest Apartments
A★Thompson Donna
B Libke Art 777-2741
C Schmidt John
D★Asher Donna 775-8164
E★Liberty Richd
F★Cunningham Eva 775-7707
G Vacant
H Murray John
J★Reems Joe S 774-8092
5909 Gross Arnold C ◎ 774-0091

570

HARNEY ST SE —FROM SE FLAVEL DR EAST 5 SOUTH OF MALDEN DR

ZIP CODE 97206
5905 Leslie Guy R ◎
5950 Goff Warren H ◎ 774-7276
5951 Fray Arlene V Mrs ◎
SE 60TH AV INTERSECTS
6009 Mills Mark ◎ 777-5335
6015 Popp Harold J ◎ 777-3642
6031 Massey Edna Mrs ◎
6036 Mc Cloud Renee A Mrs ◎
6045★Raymond C L 771-6544
6049 Thomas Wm P ◎
6050★Anhaach John 771-5482
6108 Blackmon Earnest E Rev ◎ 777-2844
6108a Blackmon Loretta Mrs
6108b★Price Robt
6109 Letcher Richd A ◎ 771-3996
6121 Wilson Floyd J ◎ 771-8272
6135 Johnson Estes W ◎
6136 Reimer Gerd A ◎
6150★Kanis Loretta I
6154★Mitchell Jackie 774-8102

572

SE 62D AV INTERSECTS
6233 Hartwell Glenn E ◎ 775-9695
6238 Dittler Edw G ◎ 774-5279
SE 63D AV INTERSECTS
6310 Strom Dennis ◎
6311★Hanson David L 777-2195
SE 64TH AV INTERSECTS
SE 65TH AV INTERSECTS
6508 Basden Thos V ◎ 774-0583
6535★Laymon Alvin 775-8744
SE 66TH AV INTERSECTS
6611★Cline Wm H ◎
6612 No Return
6625 Mc Farland Ernest M 775-2612
6626 Carr James H ◎ 774-5594
SE 67TH AV INTERSECTS
SE 68TH AV INTERSECTS
6737★Sparks R J ◎
6805★Wyant Laura Mrs
6815 Vacant
SE 69TH AV INTERSECTS
6905★Dozark Harold ◎ 771-5746

107 S.E. GRAND AV. SALES • SERVICE • LEASING TEL. 232-2000

SE 4TH ST (G)—Contd
1555 Collins Marjean Mrs 666-9163
1575★Ott D A 666-8439
1605 Greenhalgh John R 666-6653
1610 Kirwan M Frank ◎ 665-8421
1615★Van De Wege F Jane Mrs 665-2437
1624 Sellers David ◎ 665-8657
1625 Jackson Marshall P ◎ 665-7304
1634★Berecek Thos
1654 Cathcart Charles E 666-6128
1700 Dahm Raymond G Jr ◎
1715 Raff Holdrich ◎ 665-9698
SE HOGAN RD INTERSECTS

300

4TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 3 SOUTH OF COLUMBIA ST

ZIP CODE 97060
105★Card Frank S ◎ 666-1043
SE DORA ST INTERSECTS
206 Gunter Donald G ◎
247 Edgley Vera V Mrs ◎ 665-9781
SE HARLOW ST INTERSECTS
346★Walls Peter
385 Alexander James R Rev 666-1420
SE KIBLING ST INTERSECTS
434 Lampert Donald J ◎ 666-1754
SE SANDY ST INTERSECTS

603

4TH ST SW (GRESHAM)—FROM 222 S W 5TH ST WEST

ZIP CODE 97030
290 Potter Charles D ◎ 667-6656
291 Morales Manuel ◎ 666-8992
SW VICTORIA CT INTERSECTS
301 Kellogg Joseph R ◎ 665-1850
331 Evans Duane R ◎ 665-4506
340★Carson John A ◎ 665-6474
361 Clawson Rodger V ◎ 666-8790
370 Carter Gary D ◎ 667-0721
381 Park Elmer L Jr ◎ 665-4925
SW EASTMAN CT INTERSECTS
421 Lakey Robt W ◎ 666-8003
430 Weisenborn Geo A ◎ 666-9670
441 Mc Allister Keith H ◎ 666-9179
450 Crockett David C ◎ 666-6496
471 Johnson Connie F ◎ 666-6488
490 Harguth Vernon ◎ 666-7821
491 Baker Barry D ◎ 667-1762
510 Powers Lee A ◎ 665-7081
521 Spencer Lancing M ◎ 665-0672
530 Indahl Ben 665-3736
561★Appleby Carl ◎
581★Morris Richd C ◎ 667-6227
SW 6TH ST INTERSECTS
601 Takeuchi Thos K ◎ 665-8245
621 Moon Wm J 666-4370
641 Lee John A ◎ 665-0433
683★Pantano M
692 Long
SW 7TH ST INTERSECTS
705★Tripp W
712 Vacant

604

1238 Lichtenberg Lowell ◎ 666-4201
1241 Moench Lawrence 667-2017
1263 Domke Eug ◎ 667-5239
1266 Vacant
1284★Baker David L ◎ 667-1671
SW WALLULA AV INTERSECTS
1320★Kawecki Gerald J 665-7903
1321 Shaffer David L ◎ 667-2759
1353 Greenburg Fred J ◎ 667-6018
1377 Warren Jack C Jr ◎ 665-7920
1386★Tragis Paul J ◎
1423 Beck Sherman A ◎ 665-9241
1426 Schumacher Hugo ◎ 665-9603
1451 Rimbey L D ◎
1454 Braden Gary E ◎ 666-0680
1475 Koga Lincoln ◎ 667-2210
1478 Kinsky Thos M 665-8705

642

3890 Under Constn
3792 Under Constn

300

4TH ST SW (TROUTDALE)—FROM BUXTON RD WEST 3 SOUTH OF COLUMBIA ST

ZIP CODE 97060
107 Wilson James ◎
133 Huston Lee ◎
201 Mosley
204 Boswell Wayne D ◎ 665-6501
206 Whitman David A 667-6046
225 Sutherland Roger M ◎ 665-2275
242 Espenel Wayne A ◎ 665-4406
300 Troutdale City Well
342 Troutdale Public Works Dept 665-5175

610

5TH CT NE (GRESHAM)—FROM 502 NE SCOTT AV WEST

ZIP CODE 97030
3447 No Return
3450 Under Constn
3485★Chase Donald L ◎ 667-5058
3775 Vacant
3810 Vacant
3880 Under Constn
3899★Timpe M C ◎ 666-2832

604

5TH CT NW (GRESHAM)—FROM NW TOWLE AV EAST IN A SEMI-CIR

ZIP CODE 97030
1440 Johnson
1445 Den James P ◎ 667-0127
1450★Bennett Marion W ◎ 667-4893
1455 Becker Gary A ◎ 666-5394
1460 Lowry Donald W ◎
1465 Wilson David K ◎ 665-2583

603

5TH CT SW (GRESHAM)—FROM 643 SW 7TH ST WEST IN A SEMI-CIR

ZIP CODE 97030
690★Geist F L
730 Lolle R D
745 No Return
760★Bell M D
775 Vacant
790 Scales
797★Fettig Emanuel ◎ 667-6760

604

5TH PL SW (GRESHAM)—FROM SW TOWLE AV EAST 1 SOUTH OF SW 4TH AV IN A SEMI CIR

ZIP CODE 97030
1333 Bouray Dale A ◎ 665-7386
1344 Lewis James K ◎ 666-9370
1367 Brasuell Charles D 666-8960
1371 Morrow Lynn G ◎ 666-4658
1376 Johnson Allen L ◎ 665-4909
1418★Feyka Steven E ◎ 665-0733
1425 Kidder Robt ◎
1434 Krauser Gary L ◎ 666-6068
1447 Graves Jesse P ◎ 667-0736
1463 Vacant
1466 Howe Robt M
1481 Shadbeh Ali
1482 Zahara Robt F ◎ 666-8712

600

5TH ST NE (GRESHAM)—FROM N MAIN AV EAST 4 NORTH OF E POWELL BLVD

ZIP CODE 97030
27★Meeker Donald K ◎ 667-4779
28 Petersmark Roy
Rear Christie Eliz M 666-5878
NE ROBERTS AV INTERSECTS
131 Wilson Helen Mrs
150 La Londe Lena E Mrs ◎ 666-1665
206 No Return
NE HOOD AV INTERSECTS
310 Burress Donald A phys 665-5158
Windell Henry C dentist 667-1431
NE BEECH AV INTERSECTS
410 Hewlett James C ◎ 665-6419
430 Jones Mildred M Mrs ◎ 665-1269
480 Price Joseph W ◎ 665-3048
485a Speelman Robt J 666-1843
485b Germundson Millie Mrs 666-1788
NE KELLY AV INTERSECTS
530 Martin Tommy L ◎ 666-5758
550 Carmony Oran J 665-6621
NE ELLIOTT AV INTERSECTS
615 Lauderback Thos H ◎ 665-2029
640 Ulrich Louis B ◎ 666-3092
679 Vacant
NE LINDEN AV INTERSECTS
725 Foxon Keith F ◎ 665-9692
755 Stratton J Bryan ◎ 665-3960
775 Vacant
NE JUNIPER AV INTERSECTS
815★Hill Scott H 665-1624
845 Apartments
1★Jayne D A 667-0639
2★Zwald Arnold S 666-5102
3 Brown John 666-3294
4★Thompson Donald G 665-2939
5 Ziuchkovski Michl J 667-6434
6 Ward Wayne L

609

3090★Konsella Robt A ◎ 666-5305
3185★Grubb Gary E ◎ 667-1655
3190 Jacobs Diann Mrs ◎ 666-6268
3195 Wagaman Ernest G ◎ 666-6054
3200 Hinsen Clarence A ◎ 665-7789
3220 Fowler Lloyd W ◎ 665-1262
3225 Bauer Carole I Mrs
3280 Dick Howard J ◎ 666-1044
3285 Farra Willard ◎
3301 Imbeau J A 666-6370
3305 Connelly Edw E 665-7993
3315 Patton Clarence W ◎ 666-2947
3335 Schaeffer Scott T 666-2245
3355 Antoniskis Andy 667-5312

563

5TH ST NE (FAIRVIEW)—FROM 500 DEPOT ST SOUTHEAST

ZIP CODE 97024
365 Vacant
385 Parkison Gary R 665-8626

603

5TH ST NW (GRESHAM)—FROM N MAIN AV WEST 4 NORTH OF W POWELL BLVD

ZIP CODE 97030
50 Prairie Market 667-4100
NW MILLER AV INTERSECTS
NW NORMAN AV INTERSECTS
609 No Return
645 Palmquist Ernest O ◎ 665-8923
650 Crowley Lawrence C ◎ 665-9572
655 Onchi Joe M ◎ 665-7449
670 Kinnear Duane E ◎ 665-6857
675★Paskett Dean S ◎
715 Schreiber Arth C ◎ 665-3023
750 Lader Rudolf A ◎ 665-7437
800★Bucknum Dennis 665-2091

REALTORS
PORTLAND (97205)
PHONE (503) 223-3123
STORE LOCATIONS
SHOPPING CENTERS
APPRAISAL SERVICE

NW 5TH ST (G)—Contd
815 Larson Leland E ◎ 665-0227
840 Flanagan James E ◎ 665-9267
845 Curtis Edgar T 665-6698
880 Olson Carol L Mrs ◎ 665-1883
895 Olsen Sam G ◎ 666-6537
900 Helding John F ◎ 666-1017
920 Lillard John D ◎ 666-2131
NW 6TH ST INTERSECTS

604

NW TOWLE AV INTERSECTS
1500 Vacant
1505 Lee Edw B Jr ◎ 665-0442
1520 Tallman Constance H Mrs ◎ 665-1706
1525 Bankston Norman V ◎ 666-1019
1540 Blakely
1545 Huddle Betty J Mrs ◎ 665-7545
1560 Leslie
1565 Hodge David J ◎ 665-3032
1605 Chatfield S A ◎ 665-9048
1610 Wright Joe E ◎ 665-7933
NW ANGELINE AV INTERSECTS
NW BELLA VISTA DR INTERSECTS
1845 Gallagher John R ◎ 666-1738
1865 Whittenberg Jacqueline N Mrs ◎ 665-7813
1895 Larson Eric C ◎ 665-3771
1925 Hug Edwin W ◎ 665-8862
1965 Yungeberg Robt L ◎ 666-3272
1985 No Return
2010 Vacant
2015★Lopes Serrao Mike V ◎ 666-1976
2025 James Robt G ◎ 665-0521
NW RIVERVIEW PL INTERSECTS
2175 Payne Arnold J 667-2381
NW BIRDSDALE AV INTERSECTS
2220 Stamm Delmar D ◎ 665-4559
2280 No Return
2290 Larsen Richd D ◎ 666-5831
2309 Welsh Bennett M ◎ 665-3452
2400 Craddock Ronnie ◎ 665-1938
2410 Zabloudil David G ◎ 666-0932
2450 Rogge Emil G ◎ 665-7393
2460 Hank's Strawberry Farm 665-5650
Henry Harold G ◎ 665-5650
NW ELEVEN MILE CT INTERSECTS

602

5TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST 3 SOUTH OF E POWELL BLVD

ZIP CODE 97030
435 Welty Clara B Mrs ◎ 665-3538
510 Lundquist Marvin C ◎ 666-2438
511 Long Mark A ◎ 666-4742
516 Hanna Wm L ◎ 665-8464
520 Doering Anthony F ◎ 665-6687
521 Wolfe Michl ◎ 666-2786
522 Austinson Alma T Mrs ◎ 665-5880
SE KAY PL INTERSECTS
540 Karlen Ernest R ◎ 665-5421
541 Nau Robt W ◎ 666-1970
610 Ott Alvin A ◎ 665-8384
617 Smith Alma R Mrs ◎ 665-5274
644 Bamburg James W 667-6051
676★Hunter Carol Mrs
SE LINDEN AV INTERSECTS
705 Lapp Ralph E ◎
711 Bies Philip N ◎ 665-4396
SE JUNIPER AV INTERSECTS
800 Dorsey Dennis P ◎ 665-8881
810★Jenness John J 667-5844
811 Weiss Walter W ◎ 666-1920
820 Knosp Delvin E ◎ 665-8688

601

SE SPRUCE AV INTERSECTS
900 East Gresham Grade School 665-3995
931 Weisgerber David J ◎ 667-0692
935 Schaer Andrew E ◎ 665-7694
1105★Armstrong Eric L
1115★Nelson Gary M 667-6447
1145 Baird Donald 666-9051
1155 Bryant Robt N 666-3008
1165 Munsell Paul R
1175★Fox Janet A Mrs 667-5805
1185★Pearson Robt
1195★Cortez Joseph 666-4331
1205 Young
1215★Kawata Dale 666-3453
1235 Richey Archie R 666-8516
1255★Harshman Joyce 666-8738
1257 No Return
1265 Duggins Gary G 666-3024
1275★Hall David 667-4185
1285 No Return
1305★Utting Ralph R 666-7801
1315★Petersen Joel W 665-0869
1335 Kinnear Michl ◎ 667-4815
1345 No Return
1365 Vacant
1375★Swanson Mildred M Mrs ◎ 665-1669
1385★Barley M 667-1935
1395★Richardson Helen A Mrs ◎ 665-0730
1400 Dexter-Mc Carty School 665-0148
Gresham Elementary School Dist No 4 665-7138
1425★Leyerle Robt S 667-6167
1435★Albright T F 665-2753
1445★Paynter Marilyn
1455 Isham Gary C ◎ 666-8638
1465 Cumby Wm C 665-0752
1475 Viltrakis Geo A 665-5702
1485 Yoder Olin 667-3519
1495 Vacant
SE VISTA AV INTERSECTS
1585 Vacant
1595 Fulton Richd J 665-6930
1615★Miner Ronald E 667-0484
1625★Troutner Toni A Mrs 667-0138
1635★Heaslett D
1645★Mc Lain T H 667-3671
1695 Brown Dale B 665-7257
1705★Higgins Jennie
1715★Riley A ◎
1725 Fahey

610

3780 Green Walter A Jr ◎ 665-4029
SE CENTURION AV ITERSECTS
3810 Gill Wm J ◎
3815 No Return
3830 Spring James R ◎ 665-1742
3860 Johnson Robt G ◎ 666-3219
3865 Vacant
3875 Griffin Dale H 665-0767
SE BARNES AV INTERSECTS
4025★Ludlow R Stewart ◎ 667-1095
4047 Vaughan James ◎ 667-1345
4050 Edenburn Murle D ◎ 667-0927
PALOMA AV INTERSECTS
4269★Anderson John P ◎ 666-6598
4289★Fouts Jeffrey T ◎ 665-6785
4320 Vacant
4323 Brill Lawrence A ◎ 665-7804
4357 Brady Patk T 666-3259
4362★Straight Wm D ◎ 666-3683
4388 Vacant
4391 Nelson Ronald F ◎ 667-1374
4421 Kelley Milferd
SE HANCOCK LA INTERSECTS
4467 Vacant
4490★Schnack Donald J 666-9614
4499★Mehrens Wm W ◎ 666-9323
4564 Garrick David Jr ◎
4567 No Return
4592 Branville G D ◎
4593 Wallace Lauren R ◎ 666-6798

300

5TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 4 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Moen Eileen R Mrs ◎ 665-2506
136 No Return
148 Bourne Fredk 666-7837
SE DORA ST INTERSECTS
235★Wikowsky Laurence O 665-4833
244 Ferguson Bill 666-2961
245 Kramer David ◎ 666-5014
SE HARLOW ST INTERSECTS
365 Smith S
SE KIBLING ST INTERSECTS
408★Mc Pherren Lyle F ◎ 665-8878
431 Otto Donna J Mrs ◎ 666-2272
433 Paine Carroll A 665-0287

603

5TH ST SW (GRESHAM)—FROM 510 SW WALTERS DR EAST

ZIP CODE 97030
222 Nelson Scott ◎ 665-6007

642

3750 Under Constn
3790 Under Constn
SW HARTLEY AV INTERSECTS
3905 Vacant
3915 Vacant
3925 Under Constn
SW NANCY AV INTERSECTS
4000 Under Constn
4073 Vacant
4077 Under Constn (4 Hses)

610

6TH CT NE (GRESHAM)—FROM 595 NE SCOTT AV EAST

ZIP CODE 97030
3531 Carlsen Kenneth C ◎ 666-2681
3553 Kolb Bruce G 667-0267
3554★Sieverson Richd ◎ 665-6920
3574 No Return
3583 Lind David E ◎ 666-4670
3586 Vacant
3588 Hutchinson Bill 665-4969
3590 Stinson Richd H 666-6034
3613 No Return
3623★Kittelson C A 665-2441
3624 Cooper Wm R Jr
3625 Olson Arth H ◎ 666-5006
3634★Looyens Louis F ◎ 667-5709
3636 Groesch M
3666 Akin James M ◎ 665-5635

604

6TH CT NW (GRESHAM)—FROM A POINT WEST OF 685 NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1520 Vacant
1555 Dorsing Ray M ◎ 665-8011
1560 Vacant
1580★Taylor Wm 667-6066
1585 Sagaert Ronald T ◎ 665-0651

603

6TH CT SW (GRESHAM)—FROM 546 SW 6TH ST EAST IN A SEMI-CIR

ZIP CODE 97030
505 Downing Charles ◎ 665-9075
513 Carbone Leo E ◎ 665-7468
523 Findlay Matt ◎ 667-7794
533 Cuda Anthony ◎ 666-5769
543 No Return
545 Baker Gregg ◎ 665-8604

604

6TH DR NW (GRESHAM)—FROM 620 BELLA VISTA DR WEST

ZIP CODE 97030
1780 Reed Ralph L ◎ 665-2621
1795 Mc Keon Bruce C ◎ 665-0326
1800 King Miles A ◎ 665-3546
1825 Furniss A Victor ◎ 665-0642

TEL. 665-4948
Gresham 97030
21603 S.E. Stark St.

NW 6TH DR (G)—Contd
1840 Rupp Frank M ◎ 665-7002
1855 Jackson K D Construction genl contrs 665-3949
Jackson Kurt D ◎ 665-3949
1860 Sergeants Paul L ◎ 665-1226
1885 Brownrigg Sena B Mrs ◎ 666-2310
1890★White Jack ◎
1915 Wallen James H ◎ 665-0576
1920 Wilson Mae M Mrs ◎ 665-6979
1945 Marcus Melvin R ◎ 666-4111
1960★Alzner John ◎ 666-2177
1975 Minsky Michl J ◎ 665-8279
1980 Stephens Donald C ◎
2005 Yutze Otto G ◎ 666-2602
2010 Thomas Peter T ◎ 665-7390
2020 Shepherd Alice M ◎ 665-7619
2025 Funk

604
6TH PL NW (GRESHAM)—FROM NW CASCADE CT WEST 1 SOUTH OF NW 7TH PL

ZIP CODE 97030
NW CASCADE CT INTERSECTS
2178 Carlson Patk A ◎ 666-9217
2185 No Return
2198 Nemes Bruce ◎ 665-8011
NW BIRDSDALE AV INTERSECTS

604
6TH PL SW (GRESHAM)—FROM SW TOWLE AV EAST 1 SOUTH OF SW 5TH PL

ZIP CODE 97030
1421 Zuiches Walter G 666-9246
1430 Higgins Thos C ◎ 666-5754
1439 Houser Chester A ◎ 666-7906
1445 Vacant
1448 Lindstrom Geo M ◎ 666-9063
1455 No Return
1470★Mathieson Edw L ◎ 665-7535
1471 Whitted Lee 665-7335
1489 Wortley Jack R ◎ 665-9421
1492 Vacant

600
6TH ST NE (GRESHAM)—FROM NE LINDEN AV EAST 1 NORTH OF NE 5TH AV

ZIP CODE 97030
755 Beef Palace Distributing Ltd whol meat & frozen prod 666-9533
NE LINDEN AV INTERSECTS
830 Welty's Towing 665-4015
890 Rothers Motors Inc auto repr 666-8601
895 County Dept Environmental Servs (Oprnts & Mtce) 665-5692

563
6TH ST NE (FAIRVIEW)—FROM 532 DEPOT ST SOUTHEAST

ZIP CODE 97024
25 No Return
30 Phipps Melvin O ◎ 666-1482
55 Vacant
MAIN ST INTERSECTS
150 Dumpprope Wilford 665-1291
160 Davidson Edw I ◎ 665-8220
CEDAR ST INTERSECTS
235★Green Ronald L ◎ 667-3698
245 Webb D M
255 Mullikin Diane R ◎ 666-6393
265★Luiz Michl J 667-5746
275 Burkey Sandra Mrs 666-2378
280 Malsbary Allen ◎
285★Hammon Roberta L Mrs 665-3971
295★Smith Linda
HARRISON ST INTERSECTS
LINCOLN ST INTERSECTS
315 Olin Lanny R ◎
320 Callaway Orville ◎ 665-9728
340 Brinser John H ◎ 665-6241
345 No Return
360 Griffin Steve L
370 Volk Steven F 666-7787
400★Green Larry D 666-6163
N E HALSEY ST INTERSECTS

605
6TH ST NW (GRESHAM)—FROM 620 NW DAY DR WEST

ZIP CODE 97030
790 Williams Cath Mrs ◎ 665-3862
840 Mishima Henry ◎ 665-7017
NW 5TH ST INTERSECTS
875 Froese Oscar T ◎ 665-9719
890 Morgan Hector ◎ 665-7930
935 Vacant
NW OVERLOOK AV INTERSECTS
1095 Gee John R ◎ 665-2934
1200 Savage Charles H ◎ 665-6493

606
6TH ST SE (GRESHAM)—FROM 550 SE HOGAN AV EAST

ZIP CODE 97030
1230 K R D R Community Communications Inc 667-1230
1905 Smith Melvin T ◎ 665-2672
SE FRANCIS AV INTERSECTS
2180 No Return
SE RENE AV INTERSECTS
SE BARNES AV INTERSECTS

610
SE CENTURION AV INTERSECTS
3785★Pedersen Dennis M ◎ 665-1301
3805 Chase Elayne V Mrs ◎ 667-5050
3825 Wise Eda A 665-0283
3845 Moore Don L ◎ 666-2924
3850 Vacant

300
6TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 5 SOUTH OF COLUMBIA ST

ZIP CODE 97060
131 Frank Loren P ◎ 666-5342
134 Louderback Larry F ◎ 666-4802
SE DORA ST INTERSECTS
204 Barnes David W 665-2706
209 Vacant

603
6TH ST SW (GRESHAM)—FROM 520 SW WALTERS RD WEST

ZIP CODE 97030
295 Curran Thos J ◎ 665-7075
325 Under Constn
345 Eave Henry W ◎ 665-0550
385 Under Constn
360 Kipers Paul ◎ 665-0494
375 Mitchell Perry E ◎ 666-2074
395 Forster Fred ◎ 666-7883
465 Fisher Gary L ◎ 666-8210
466★Chadwick Steve A ◎ 665-7969
485 Vacant
486 Hopkins John M ◎ 667-9125
495 No Return
496★West Kenneth ◎ 667-5581
506 Rice Paul L ◎ 667-0683
516 Sanford Jerrald D Rev ◎ 665-8058
536 Gomes Joe R ◎ 665-8517
546 Mc Carty James P ◎
SW 6TH CT INTERSECTS
555 Jennings Howard B ◎ 665-7536
566 Pratt James E ◎ 665-9787
575 Relling Jack E ◎
576 Snowadzki Robt V ◎ 665-6914
586 O'Brien Albert E Jr ◎ 667-0141

609
7TH CT NE (GRESHAM)—FROM 700 NE KANE DR WEST IN A SEMI-CIR

ZIP CODE 97030
3301 Under Constn (6 Hses 3301-30)

610
ZIP CODE 97030
3511 Andersen Vern D ◎ 666-2294
3551 Busch Dave 666-3103
3552 Hornbeck Michl 667-3771
3581 Olson Leonard J ◎ 666-5689
3582★Martin B
3611 Vacant
3622 Arnell Michl 666-1258
3650 Under Constn
3661 Thomson King O ◎ 666-5034
3671 Stockfleth Russell H ◎ 666-8190
3682 No Return
3701 Under Constn
3779★Spaulding Jay A 666-5495

604
7TH CT NW (GRESHAM)—FROM NW TOWLE AV EAST IN A SEMI-CIRCLE

ZIP CODE 97030
1555★Matheny Joye Jr 666-4607
1560 Cremer Ferdinand ◎ 665-5921
1580 Foreman James C ◎ 666-2038
1585 Garner Gene A ◎ 666-1869

642
7TH CT SW (GRESHAM)—FROM SW 8TH DR NORTH IN A SEMI-CIR 1 EAST OF SW LILLYBEN DR

ZIP CODE 97030
2500 Under Constn (hses 2500-2610)

604
7TH PL NW (GRESHAM)—FROM 720 BELLA VISTA DR WEST

ZIP CODE 97030
1745 Flood Joan M Mrs ◎ 666-0394
1775 Kramer Walter 666-0250
1780 Wolf Ronald R ◎ 666-4353
1815 Faatz Lawrence B ◎ 665-2428
1820 No Return
1840 Frisco Harvey H ◎ 665-3278
1845 Chartier Larry ◎ 665-1811
1875 No Return
1880 Ferguson Ray S ◎ 666-7779
1910★Drexler Charles J ◎ 667-2501
1915 Wakefield Dan K ◎ 666-1617
1940 Streng Frank H ◎ 665-9752
1945 Simshaw Roger M ◎
1970 Lemoine Pete N ◎
1975 Mills Bert F ◎ 665-8443
2000 Knotts Guy D ◎
2005 Harlin Marion E ◎ 665-6980
2015★Roberts T E ◎
2030 Welliver Gary S ◎ 665-9695
2035 Hoffman Gene F ◎ 665-7255
2055 Swarthout Neil F Jr ◎ 665-6993
2060 Thomas Wm J ◎ 665-8817
NW CASCADE CT INTERSECTS
NW BIRDSDALE AV INTERSECTS
2220 Bedee Richd
2230 Stewart
2240 Stevenson Wilford S Jr ◎ 665-5942
2245★Knudson J W 666-2693
2260 Nies Robt A ◎ 666-7130
2275★Morden Wm E ◎ 667-5988
2320★Emmert Gerald ◎ 665-0561
2325 Rabe Maynard R ◎ 665-1217
2340 Hergert Agnes M Mrs ◎ 665-1674
2345★Wahl Lyle E 666-3556
2360 Kerrick Michl A ◎ 665-3366
2380 Tempest Wm H Rev ◎ 665-6947
2420 Woosley Leon K ◎ 666-2508
NW MAWRCREST DR INTERSECTS

St Powell Boulevard, Gresham (97030) Phone 667-1106 9500 SW Canyon Road Portland 97225

6110 N.E. Union Av., Portland 97211 Tel. 282-7751

600
7TH ST NE (GRESHAM)—FROM NE HOOD AV EAST 2 NORTH OF NE 5TH AV

ZIP CODE 97030
333 Acme Feed Mills 665-2019

609
2275 Ellsworth John B ◎ 667-1633
2285 Eichelbrenner Carl B ◎ 667-4695
2325 Skinner Wm H ◎ 665-3689

563
7TH ST NE (FAIRVIEW)—FROM 700 DEPOT ST SOUTHEAST

ZIP CODE 97024
60 Schneider Edwin L 66-4200
85 Vacant
MAIN ST INTERSECTS
305 Fairview Arms Apartments 667-5337
1★Van Der Horst Frons 667-5337
2★Vaughn Carol Mrs
3 Dettles Sharon Mrs
4★Nelson Ralph
5★Wheatley Kathy Mrs 665-9208
6★Van Order Michelle Mrs
7★Berg Elton
8★Christianson Rhonda Mrs
9★Wood Carolyn Mrs
10★Williams Susan Mrs
11★Hutson Julie Mrs
12★Van Berg Christin Mrs
13★Dolan Edna Mrs
14 Mills Lawrence
15 Carey Colleen Mrs 666-9921
16 Craig Walter
17★Doudna Marian Mrs 667-5853
18 Mocklin Keith
19★Handy Donald G 666-7350
20★Cristal Camille Mrs
21★Christenson Terry Mrs
22★Nelson Howard
23★Kuhlman Kevin
24★Waide Mary Mrs
25 Allard Charles M 665-9825
26 Boorman Sandra Mrs
27★Whiting Howard
28★Dishmon Jeannie Mrs
29★Horton Donnie
30 Patterson Nancy Mrs 667-1979
31★Asher Nancy Mrs 667-3910
32★Brownlee Kathy Mrs 666-2530
33 Damrill Kim
34★Blackwell Robt
35★Dickinson Ila 665-3821
36★Elsner Lena 666-7806
37 Smith Glenora F 667-4852
38 Mc Elroy Hazel I 667-3893
39★Warren Ernest 665-3345
40★Mitchell Edith L 665-7443
41★Finney Christy J 667-1662
42★Messineo Santina 667-2503
43 Ross Nelson 665-5927
44 Christey Eleanor 666-4798
45 Issacson Irene 667-4781

602
7TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST 5 SOUTH OF E POWELL BLVD

ZIP CODE 97030
510 Cubelic Marcus A ◎ 666-6135
515 Vacant
525 Culpepper James C 666-7004
530 Bastedenbeck Roy H ◎ 665-2947
605 Borchers Edw C ◎ 665-5922
610 Baughman Larry ◎
615 Depta Eliz Mrs ◎ 665-4629
620 Hill L Fern Mrs ◎ 665-5431
625 Kim Mary Mrs
630 Mc Coy Joseph N 666-7620
SE JUNIPER CT WEST INTERSECTS
700 Denton Gary L ◎ 666-8006
710 Ballard Kenneth M ◎ 665-2447
715 Mealey Theo B
720 Vacant
725 White Keith H ◎ 666-1620
730 Irvin L Arlow ◎ 665-1234
S E JUNIPER CT EAST INTERSECTS
806 Nicolson Roy A ◎ 666-9940
815★Hutchison John C Rev ◎ 666-7808
820 Crawford Robt H ◎ 665-4519

606
SE VISTA AV INTERSECTS
1520 Wilson Hannan E 666-2950
1525 No Return
1545 Pierce Saml H ◎ 666-9640
1570 Hamnett John D 665-6473
1575 Randol Steven W ◎ 666-9961
1590 Olson Otto N ◎ 666-5929
1595 Cavanaugh Milton F ◎ 665-3424
SE ATHERTON ST INTERSECTS
SE RENE AV INTERSECTS
2224 Briar Crest Apartments 667-5759
Munsey Ruth L Mrs 667-5935
2226★Billings Lowell E 666-5323
2228 Vacant
2230 Dooley Lenore W Mrs 665-7344
2232 Vacant
2236★Urbick Doug 665-8206
2238★Strickland Duane 667-5759
2274 Vacant
2278★Donley Glaucus M 665-4397
2286★Oien Gary 667-0463
2411 No Return
2415 Vacant
2437 Vacant
2440 No Return
2450 No Return
2490 Vacant
2492 No Return

610
4006 Meeker Mert ◎ 667-0965
4009 Bailey Wayne R 666-9679

300
7TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 6 SOUTH OF COLUMBIA ST

ZIP CODE 97060
145 Lunday Linden ◎ 665-8660
146 Alexander Lloyd O ◎ 665-3402
SE DORA ST INTERSECTS
207 Lewis Nora E Mrs ◎ 665-4753
221 Vacant
242 Mitchell Melville L ◎ 665-3361

603
7TH ST SW (GRESHAM)—FROM 645 SW WALTERS RD WEST

ZIP CODE 97030
350 Vacant
SW EASTMAN AV INTERSECTS
410 No Return
426★Bond Gerald 665-0048
433 Bishop Clinton R 665-4782
SW NORMAN CT INTERSECTS
515 Payne Arnold T ◎ 666-4327
510 Munro
535★Snodgrass Jon D ◎ 667-0645
SW BLAINE PL INTERSECTS
545 Vacant
575 Foatz Lawrence B ◎ 665-2428
SW SLERET AV INTERSECTS
615 Vacant
633★Frey R G
638★Markham Gary T 667-2856
643 Dahmen Lawrence L 667-4749
649 Mason Joe
657 Vacant
671★Clark Laura M ◎ 667-3345
674 Vacant
SW 5TH CT INTERSECTS

SW 4TH ST INTERSECTS

300
7TH ST SW (TROUTDALE)—FROM BUXTON RD WEST 6 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Simons Frank T ◎ 665-5981
120 Jadrny Frank ◎ 666-4782
202★Schimel Wm C ◎
206 Dick Kenneth J ◎ 666-5248
212 Lewis Richd M ◎ 665-0810
218 Park Gerald R 667-3037
246 No Return
301 Troutdale City Reservoir
302 Gier Bruce N
304★Riehl Joe G
304a Kachel Karen S Mrs
306 Ruth Ernest L ◎ 665-5302

300
8TH CIR SW (TROUTDALE)—FROM 836 KINGS BYWAY EAST

ZIP CODE 97060
302 Barkume Wm G 665-4059
307 Wetherell Thos T ◎ 666-3387
315 Nelson Joseph C ◎ 666-6002
320 Stilson Lonnie ◎ 667-3674
323 Elton Arth L ◎ 665-8623
830 Under Constn
833★Arndt Lester W ◎ 665-7939
840 Vacant
844 Under Constn
848 Under Constn

604
8TH CT NW (GRESHAM)—FROM 885 NW BIRDSDALE AV WEST

ZIP CODE 97030
2290 Vacant
2295 Harrison Brian K ◎ 666-7942
2305 Kaster Ken C ◎ 667-1244
2310 Pettinger Leon F ◎ 665-9628

642
8TH DR SW (GRESHAM)—FROM SW BIRDSDALE DR WEST 1 SOUTH OF W POWELL BLVD

ZIP CODE 97030
1050 Vacant
2335 Under Constn
2405 Under Constn
2425 Under Constn

609
8TH PL NE (GRESHAM)—FROM 2290 NE 8TH ST WEST

ZIP CODE 97030
2205 Putnam Roger D ◎ 665-5343
2215 Balfour Bernard D ◎ 667-6055

600
8TH ST NE (GRESHAM)—FROM NE HOOD AV EAST 3 NORTH OF NE 5TH AV

ZIP CODE 97030
335 Vacant
345 Kuykendall Guy
357 Vacant
NE BEECH AV INTERSECTS
NE KELLY AV INTERSECTS
575 Gresham Auction Mart 666-6360
NE ELLIOTT AV INTERSECTS
603 East Hill Four Square Church (Admn Ofc) 666-4533
604 C & R Chemical Co mfrs
Gresham Cold Storage Co 665-4841
Krause Furniture Co ret 665-1103
655 Lumpy's cafe 666-5354

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NEW CARS, PICKUPS OR TRUCKS
234-9368
Portland 97232
2885 N.E. Sandy Blvd.
Typing - Mimeographing - Direct Mailing - Gifts
Greeting Cards & Stationery - Photo Copying - Notary Public
8541 N.E. Glisan St., Portland, Ore. 97220
Tel. 253-9969

ELECTROMATIC INC.
TELEVISION REPAIRING
6110 N.E. Union Av., Portland 97211
Tel. 282-7751

SE BUSH ST—Contd
12617★Benfield Dannie C ◎ 761-4575
12620 Brown Eleanor R Mrs 761-7736
12635 Nance Richd ◎ 761-7800
12640 Graystone Nursing Home 761-6621
12657 Burham Irwin L ◎ 761-5460
12660 Goodier Harry P ◎ 761-3280
12711 Knutson Archie ◎ 761-3800
12712 Hellweg L G Mrs 761-1051
12729 Maxwell John ◎ 761-9617
12730 Wertz Edw H ◎ 761-0661
12820 Batchelor Robt J ◎ 761-9706
12828 Jones Henry L ◎ 761-4265
SE 129TH AV INTERSECTS
12907 Schonfeld Steve ◎ 761-6395
12920 Parker Duane A ◎ 761-3894
SE 130TH AV INTERSECTS
SE 132D AV INTERSECTS
13232 Ouchida Henry M ◎ 761-0338
13242★Glaze Jonathan E 760-6726
13247 Landwehr La Verne ◎ 761-1295
13314 Boland James B ◎ 761-1642
13315 Tapp Jack V ◎ 761-2253
13331 No Return
SE 134TH ST INTERSECTS
13345★Gaines Deborah
13402 Ellingson Dorothy J Mrs ◎ 761-5714
13405 Allen Paul E ◎ 761-2422
13410 Lanning Arnold 760-1519
13411 Mc Dowall Richd W 761-5785
13429★Pallister Somaya ◎ 761-4275
13430 Lueck Geo F ◎
13447 Horning Robt E ◎ 761-3817
13450 O'Brien Michl S ◎ 761-0330

550
SE 136TH AV INTERSECTS
13633 Hansen Richd G ◎ 761-7006
13636 Glasgow Walter ◎ 761-3438
13654 Price Ray W ◎ 760-1859
13657 Riehl Thos A ◎
13701 Lichty John E ◎ 761-0546
13710 Shoemaker Saml S ◎ 761-2258
13717 Damon Oliver E Jr ◎ 761-0837
13731 Long A Raleigh ◎ 761-0332
13734 Garball Arth ◎ 761-1273
13745 Oswald Dennis R ◎ 761-1961
13812 Vice John C ◎ 761-6786
13815 Kappes Calvin D 760-6397
13821 Haller Wm ◎ 761-1048
13835 Jensen James M Jr ◎ 760-3204
13838 Brooks Lillie Mrs ◎ 761-3674
13844 Neidert Arnold H ◎ 761-0563
13901 Shultz Roy E ◎ 760-4182
13910 Lindholm Gene R ◎ 761-0453
13929 Ashley Donald ◎ 761-7545
13930 Harris Harold L ◎ 761-1049
13945★Dekort Darrell L
14002 Davis Wesley P ◎ 761-2756
14005 Rosen James C ◎ 761-2539
14028 Pouppirt Ronald 760-6411
14029 Jones W D 761-5417
14040 Vacant
14045 Sanchez Joseph R ◎ 761-2489
14110 Murphy Guy L
14111 Martin John E ◎ 761-6624
14115 Kling Joseph F ◎ 761-7226
14116★Smith May M 761-8432
14120 Grieve John ◎ 760-5530
14120a★Burt Barbara A Mrs 760-4549
14135 Curry Jack
14147 Oliverio Allen 760-5123
14201 Ojord James ◎ 761-9154
14202 Zenner Michl G ◎ 761-3308
14216★Woerz Robt A 760-4541
14219 Furman Dale G ◎ 761-0245
Kerwood Hazel M Mrs 760-6873
14230 Harding Richd D ◎ 760-1796
14235★Johnson Michl W 761-3982
14244 Mc Murry Addie Mrs ◎ 761-3339
14303 Jordan John M ◎
14314 Forbes Robt ◎ 760-6471
14323 Devlin Lorraine Mrs ◎
14334 Crenshaw Marvin L ◎ 761-8326
14343 Mackie Wilfred E ◎ 760-4288
14350 Chase Waldron E ◎ 761-8148
14361 Pabst Sherry M ◎
S E 144TH AV INTERSECTS
14400 Giesbrecht Gary A ◎ 761-8520
14410 Eddlemon Wilbur M ◎ 761-8046
14508 Chamberlain Glenn R ◎
14509 Thompson Ronald L ◎ 761-8309
14525 Smith Norman S ◎ 761-8612
14530★Oja Pentli ◎ 761-1536
14545 Katzberg La Mar W ◎ 761-1971
14556 Hall Marlin D ◎
14619 Pernar Anthony V ◎ 761-8397
14620★Lewis Robt F 760-5135
14635 Siron Hartzel P ◎ 761-8346
14636 Krise John ◎
14704 Matheny Pat ◎ 760-4681
14707 Earl P I ◎ 761-8335
14723 Maier Donald H Rev 761-8317
14724 Perala Wm A ◎ 761-8376
14744 Whitford Donald R ◎ 761-8241
14747 Wood Lawrence W ◎ 760-4079
SE 148TH AV INTERSECTS
14806★Weister Norman L ◎ 760-4271
14813 Haney Robt E ◎ 760-6368
14819 No Return
14820★Rabe Rick A 760-5966
SE 149TH AV INTERSECTS
SE 150TH AV INTERSECTS
15020 Arndt Thos C ◎ 761-7169
15021 Walters Lloyd O ◎ 761-8505
15040 Albrich Richd ◎ 761-6881
15041 Thompson Ray D Jr ◎ 761-3411
15051★Murphy James P 761-1406
15056 Lockner Richd G ◎ 761-8257
SE 151ST AV INTERSECTS
SE 154TH AV INTERSECTS
15421 Budworth Marjorie Mrs ◎
15426 Dixon James K ◎ 761-8175
15435 Grote Gordon ◎ 760-6548
15440 Walker Gary L ◎ 761-1904
15452★Ellis John E ◎ 760-4086
15453 Brittain Charles C ◎ 761-8783
15502 Atkeson Jerry 760-6462
15505★Nicholson Max L 760-6351
15521★Jenson Paul T 761-6809
15524 Stamp Roy L 760-4554
15541 Under Constn (hses 155441-04)

SE 165TH AV INTERSECTS
16504 Boyd Helen
16508 Searls Ron G 667-1240
16512 Dittman Ida Mrs 666-3097
16516★Johnson Delbert 666-4769
16520 No Return
16524★Mc Elroy Kathy Mrs 666-8163
16527 Mc Guire John C ◎ 665-8766
16528 Villaneal Reuben 667-1339
16532★Bogenrief David 667-6670
SE 166TH AV INTERSECTS
16610 Mendenhall Mike L ◎ 665-2443
16620★Ackers Steve B 666-8167
16627 Schoppe John E ◎ 666-2338
16642 Boslaugh David C ◎ 666-3694
SE 166TH CT BEGINS
SE 166TH PL INTERSECTS
16675★Hanefeld Richd M 666-2955
16680 Heimbuck James L ◎ 665-2683
16691 Walters Edw F 666-2169
16696 No Return
S E 167TH AV INTERSECTS
17002 Carmony Kenneth I ◎ 665-4801
17015 Boettcher Fred A
17016 Pauker Joseph R ◎ 665-2630
17022 Brown Alf L ◎ 666-3924
17027 Jones Robt L ◎
17035 Hefeneader Jim W ◎ 665-1375
17038 Austin Geo B ◎
17103 Washburn Gary A ◎ 666-1467
17106 Bowman Gary W ◎ 666-7692
17111 Henderson Saml B ◎ 666-4247
17118 Robson Palmer D ◎ 665-9330
17126 Barnhill Harold E ◎ 666-20[illegible]

611
BUTLER RD (GRESHAM)—FROM SE 190TH AV EAST 1 SOUTH OF SW 33D ST

ZIP CODE 97030

300
BUXTON RD (TROUTDALE)—FROM COLUMBIA ST SOUTH 1 EAST OF SW KENDALL ST

ZIP CODE 97060
127 Vacant
146 Craig David E ◎ 666-8098
SE 2D ST INTERSECTS
223 Troutdale Postal Serv 665-3898
224 Welton Loren R ◎ 666-7141
SE 3D ST INTERSECTS
SE 4TH ST INTERSECTS
425 Hardesty Douglas A ◎ 666-6314
SE 5TH ST INTERSECTS
526 Horn Robt
528 Barker Alice A Mrs 665-1268
536 Ferguson Chester A
538 No Return
SE 6TH ST INTERSECTS
608★Ganow Diane M 667-4406
619★Stoeckel Alf P ◎ 665-0026
623 Nesbit Wm J ◎ 665-0423
641 Evans Jack S ◎ 665-2200
SE 7TH ST INTERSECTS
704 Semon Harold A ◎
746 Goad Lloyd A ◎ 666-7802
747★Struttman Phil K
SE 8TH ST INTERSECTS
SW MARTINE CT INTERSECTS
803 Britton Sid A ◎ 665-8347
823 Troutdale Bapt Church (Abbott Annex)
921 Troutdale Conservative Baptist Church 666-5617
1001 Peterson Ethel Mrs ◎ 665-3806
1047 Scroggs Harry C 666-6541

566
BYBEE BLVD SE —FROM 6934 SE 48TH AV EAST

ZIP CODE 97206
540 4806★Lerner Andrea
4816★Williams Richd 775-3519
4816½★Hafferkamp Harry J 775-7512
4840 Naylor Herbert A ◎ 774-2541
4848 Blanton Merle M 775-0104
4851★Salsbury Ray ◎
4900 Gardner Charles R ◎ 771-3501
4911 Rowe Robt T ◎
4919★Larson Warner M 774-6371
4924★Ferguson James C ◎ 777-1825
4927 Bippus Elsa M Mrs ◎ 771-1338
4934 Hagen Swen ◎ 774-2591
4943★Dalby Dar
4951 Rosengreen Carl ◎ 775-3954
4963 Dusty's jan serv 775-5220
Knapp Manley W ◎ 775-5220
SE 50TH AV INTERSECTS
5004 Meyers Terry L 775-4941
5014 Cole Merton C ◎ 774-1488
5024 Abrahams Leonard A ◎ 777-5401
5035★Roche Gary 774-6512
5036★Scott Garry F 775-1049
5044 Burri Sam W ◎ 771-5571
5047 Pels Arth S 774-3609
5059 Banwart Ray ◎
5107 Apartments
1★Ledger Clarite
2 Mead Doris
3★Carlile Kay
4★Linzmeier K A 775-3725
5120★Wagner Steve D ◎ 775-4559
5128★Wright Jackie Mrs ◎ 774-0450
5141 Apartments
A Coffey John E 771-8263
B★Aldrich Angela G
C Mc Elroy John T 774-0187

DORA ST SE 1977

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TITLE INSURANCE - ESCROW SERVICES
314 S. W. 4th Ave.
Telephone 222-3651

SE DORA ST (T)—Contd
SE 2D ST INTERSECTS
201 Burnett Gary G dentist 665-3416
225 No Return
234a★Edlen Mark 666-6884
234b Moor Richd 667-1630
235★Keyes J 666-4222
243 Gasser Gerald K ◎ 665-5020
246 Glenn Lillian G Mrs ◎ 665-6935
SE 3D ST INTERSECTS
327 Ramsey Daryld R bldg contr ◎ 665-8822
337 Ulrich Roger
349 Hayes Kenneth L ◎
SE 4TH ST INTERSECTS
SE 5TH ST INTERSECTS
531 Moore David L ◎ 665-8346
534 Jackson Maynard D ◎
SE 6TH ST INTERSECTS
SE 7TH ST INTERSECTS
708 Vacant
710 Schmaedick Albert ◎ 667-3457
746 Blackwell Marshall V ◎ 665-1001

603

DOWSETT LA SE (GRESHAM)—FROM 860 SE ROBERTS AV EAST

ZIP CODE 97030
620 Flanagin Richd J ◎ 665-3975
650 Hibbard Patk B ◎ 666-2092
655 Rinker Robt F ◎ 665-3415
675 Lewis Johanna M Mrs ◎ 665-9201
923 No Return
925 No Return
JOHNSON CREEK CROSSES
935 Benner Walter E ◎ 665-5294

556

DUKE ST SE —FROM SE 110TH AV EAST 1 SOUTH OF SE FOSTER RD

ZIP CODE 97266
SE 110TH DR INTERSECTS
11002 Burbank Harold 760-5531

642

DUNNAWAY AV SW (GRESHAM) FROM SW 3D ST SOUTH 1 EAST OF SW NANCY AV

ZIP CODE 97030
350 Under Constn

605

EARL AV NW (GRESHAM)—FROM NW 8TH ST NORTH 1 WEST OF N MAIN AV

ZIP CODE 97030
817 Wright Austa B Mrs ◎ 665-2325
820 Howell Willis E
Yeomans Raymond E 666-4377
833 Marschman Allen L ◎ 665-9271
835 Heard Shirley J Mrs ◎ 666-2266
840 Bishop Jane Mrs 665-3264
843 Taylor Janet
860 Helyer Virginia M Mrs 665-6570
880 Youngberg Ann Mrs 666-1498
900 Anderson Vivian Mrs 666-2209
920★Nelson James 666-4717
940 Edgar Harold R ◎ 666-3680

605

EARL CT NW —(GRESHAM)-FROM 155 NW 20TH ST NORTH

ZIP CODE 97030
2000 Aspen Highland Apartments 665-1438
Moldt Douglas K
2005 Vacant
2010★Erdahl Dave E 667-0747
2015 Lambeth Kathleen J 665-2995
2020 Vacant
2025★Hale Dennis L 667-5255
2030 Helms Kenneth R ◎ 665-2300
2135 Rasmussen Virginia M Mrs ◎
2140 Calloway Gail N Mrs ◎ 667-1957
2145★Namkie Kim ◎ 666-8252

605

EASTMAN AV NW (GRESHAM) FROM NW 11TH DR NORTH 2 NORTHWEST OF NW DIVISION ST

ZIP CODE 97030
NW 12TH ST INTERSECTS
1220 Barger Harry T Econo Homes genl constn 665-8248
1319 American Precast Concrete Products bldg blocks 665-1538
Kosts Patio & Fireplace Shop bldg sup 666-3753
Delux Auto Body Shop 667-2855
1400 Vacant
1402★Pringle Mark M
1475 Reilly Chemical Co
Hoffman Elsworth M 665-1030
1505 Engineered Fittings cable 666-7345
2029 Hood Machine Co Inc 665-8154
W BURNSIDE RD INTERSECTS

603

EASTMAN AV SW (GRESHAM) FROM 426 SW 7TH ST SOUTH

ZIP CODE 97030
730 Under Constn
749 Under Constn

603

EASTMAN CT SW (GRESHAM)—FROM 381 SW 4TH ST IN A SEMI-CIR

ZIP CODE 97030
442 Briggs Harry O ◎ 666-2347
445 Wallace Bruce M ◎ 666-5145
460 Wold Danny ◎ 667-0233
465★Chamberlain Joseph D ◎
502★Gorman Roger A ◎ 665-0286
504 Wisniewski Kenneth G ◎ 666-5830
505★Glasser Joe L ◎ 666-1269
507 Robinson Melvin H ◎ 666-1204
509 Lien Robt N ◎ 666-9648

611

EASTWOOD AV SW (GRESHAM) FROM SW 19TH DR SOUTH 1 WEST OF SW EASTWOOD CT

ZIP CODE 97030
1875★Mc Grath E
1878★Salem Salem G ◎ 666-7038
2045 Under Constn (3 Hses 2045-60)
2065★Giebeler Wm H ◎
2074 Under Constn
2085 Under Constn
2104★Dumoulin Robt A 667-4426
2150 Under Constn

611

EASTWOOD CT SW (GRESHAM) FROM SW 19TH DR NORTH 1 EAST OF SW BRIXTON CT

1602★Eastman Michl S ◎ 665-6339
1604★Padie Marion H ◎ 665-2028
1637★Arnold Sunday S Mrs ◎ 666-6982
1640 Under Constn
★Taylor Garrett O ◎ 666-4480
1690★Heine Heinrich ◎ 667-1123

610

EL CAMINO DR SE (GRESHAM) FROM SE KANE DR EAST

ZIP CODE 97030
3420 Stewart Mary J 666-1940
3423 Mc Daniel J M 666-6880
3460★Mc Laughlin Everett B ◎ 666-5183
3465 Muir J
SE OLVERA AV INTERSECTS
3500 Hunsinger Eug W ◎
3520 Downey P A Mrs 665-0432
3525 Haworth Donald R 665-5445
3540 Imbeau Silas ◎ 666-2592
3545 Carter Wesley D ◎ 665-4655
3560 Peters John 666-5002
3575 No Return
3580★Dormaier Dennis K ◎ 666-9025
SE HACIENDA CT INTERSECTS
3600 Mack Terry G ◎ 666-5896
3620 Williams E R ◎ 665-6321
3630 Thomas Tom L ◎ 666-7728
3640 Perks Karl L ◎ 665-3913
3645 Eakin Saml E ◎ 665-4049
SE 1ST ST INTERSECTS
3670 Dicey Geo D ◎ 665-9808
3680 Barth Roger A cpa ◎ 665-2235
3800 No Return
3820 Gantenbein Steve 666-8293
3860 Williams R C 667-0778
3870 Taylor Robt W 666-5168
3890 Barrett Patk ◎ 665-9384
SE 1ST PL INTERSECTS
3901 Stowell Monte R 666-5320
3910 No Return
3981 Vacant
SE PALOMA AV INTERSECTS
4001 Erdahl Bill Jr 665-0958
4020★Hearrell Roger L ◎ 666-8677
4021 Spring Roderick M ◎ 665-4823
4060 Mauch Gary ◎ 667-5357
4061★Bonar Richd C 667-4943
4090 Duncan Jerry R ◎ 666-4695
4101 Judd Calvin T 663-6502
4110 Vacant
4120 Bonlender Ronald J ◎ 667-3169
4140 Zurcher Wm E ◎ 667-4653
SE 1ST PL INTERSECTS
4150 Werniek Gary M ◎
4160 Petersen John C ◎ 666-6803
4170 Petyon Alexander ◎ 667-1534
4171 Pulicella Ralph 667-0672
4180 Cour Brian P ◎ 666-8095
4181 Beckman Robt A ◎ 666-3015
4184★Johnson Jeffory L ◎ 667-6356
4188 Vacant
4195 Under Constn
4230 Vacant
4250 Vacant

604

ELEVEN MILE CT NW (GRESHAM) FROM 2460 NW 5TH ST NORTH

ZIP CODE 97030
505★Davis Robt D ◎ 665-2661
550 Meiser Jack D ◎ 665-4610
600 No Return
605★O Donnell Michl J 667-5872
620 Sosnovske Leonard E ◎ 665-6656
655 Lawler James P ◎ 666-3563
660 Dorfhuber Eric ◎ 666-7314
700 Comeau Gerald N ◎ 666-4284
735 Vacant
740 Carpenter Ed E ◎ 665-2648

600

ELLIOTT AV NE (GRESHAM)—FROM E POWELL BLVD NORTH 3 WEST OF NE CLEVELAND AV

ZIP CODE 97030
45 Vacant
50 Gresham Senior Center non profit organization 665-7189
NE 2D ST INTERSECTS
NE 3D ST INTERSECTS
375 Elliott House Apartments
1★Cunningham John
2 Barnhill Eleanor K Mrs 666-5953
3 Swanson Edna Mrs 666-8749
4 Nixon Josie Mrs 666-4430
5 Milton Frances 666-2390

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EAST SI
OFFIC
1350 S.
122d Av
Portland
TEL.
255-91
GRESHA
OFFIC
1025 E.
Powell Blv
Gresham
Oregon 97
Tel.
667-13
WASHING
COUNT
OFFICE
12012 S.
Canyon R
Beaverto
Oregon
TEL.
646-81
CLACKA
COUNT
OFFICE
112 11th
Oregon C
Oregon
TEL.
656-52
311 "B"
Lake Osw
Oregon
TEL.
635-36
38925
Proctor B
Sandy
Oregon
Tel.
668-4
16220 S.
McLoughlin
Milwauk
Oregon 9
Tel
653-7

120 S.E. Roberts Av., P.O. Box 650, Gresham, Ore. 97030 Tel. (503) 665-1131

SE PARDEE ST—Contd
11924 Sears Harold D ◎
11933 Blaske E H ◎ 761-2705
11944 Berry Kenneth R ◎ 761-6819
11947 Collopy John I
12009 Hackwith Gary E ◎
12019 Krogstad Esther Mrs ◎ 761-6690
12031★Soll Harry H
12033★Horner Michl E 760-2628
12102 Mc Laughlin Jerry
12105★Branstuder Marie L ◎

603
PARK DR SE (GRESHAM)—FROM 552 SE ROBERTS AV SOUTHWEST

ZIP CODE 97030
541 Bradfield Billy B ◎ 665-0848
635 Witter Willis E ◎ 665-5741
675 Birch Donald C ◎ 665-5033
737 Carey Richd E ◎ 665-3230
803 Mac Kay James R ◎ 665-4328
875 Oslund Robt L ◎ 666-3005

608
PAROPA CT NE (GRESHAM)—FROM 3098 NE HALE PL SOUTH IN SEMI-CIR

ZIP CODE 97030
1400 Pino Albert ◎ 666-6716
1407 Vacant
1408★Elam M 666-6105
1411 Vacant
1415 Vacant
1416 Apling Steven B ◎ 665-8860
1417 Vacant
1421 Saunders Robt F 665-1475
1424 Schmidt Terry R ◎
1429 Ratcliff Larry ◎
1430 Vacant
1433 Donovan Gary D ◎ 666-1300
1436 Lewis Harold K ◎ 666-1647
1437 Vacant
1440 Lewis Larry 665-8598
1441★Templin Robt W 667-6598
1447★Walker Jerry D 666-9100
1448 Spencer Calvin E 666-2055
1450 Fee L F
1451 De Baun T E ◎
1452 Thorpe Thomas N ◎ 665-0377
1455 Serroels Richd C ◎ 665-3837
1458 Warner Ken
1460 Vacant
1461 Andrews Tess Mrs ◎ 666-6472
1469 Held Marc W 666-7860
1470 Vacant
1473 Lannan Glenda Mrs ◎ 666-4643
1474 Vacant
1476 Gepford Dan W ◎ 665-9378
1478★Candelaria Carmen L 667-2755
1479 Vacant
1480 Joy Gordon C
1481 Vacant
1483★Byers Madeline M Mrs ◎ 667-3803
1485 La Plante Clayton Jr ◎ 665-6200
1486 Stites Mariane ◎ 665-9211
1487 Burt Cecil Jr 665-2884
1488 Vacant
1489 Moore Sandy Mrs
1490 Randolph Maxine J Mrs ◎ 666-6022
1500 Vacant
1510★Vernon Lee 667-2393
1516 Robanske Oscar T ◎
1520 Summers Joyce S Mrs ◎ 666-8064
1530 Vacant
1536 Rogers Carolyn Mrs ◎ 665-9788
1538 Irving David 665-5933

609
PAROPA WY NE (GRESHAM)—FROM 335 NE KANE DR WEST AND NORTH

ZIP CODE 97030
315 Watkins M F 666-7078
320★Garrison M Val ◎ 665-9478
325 Jorgensen Steph H ◎ 667-2532
360★Kissell Lester E ◎ 666-4085
380 Anderson Robt G ◎ 667-3275
390★Bex Marshall L ◎ 667-5358
395 No Return
398 No Return
399 Cox David N ◎ 666-8316
402 Vacant
N E ROBIN CT INTERSECTS
425 St John D Jay ◎ 666-4791
445 Walp Ronald L 665-4993
470★Bell Jefferson B ◎ 665-5047
490★Miller Robt D ◎ 665-4741

300
PENQUIN PL SE (TROUTDALE) FROM 431 SE 5TH ST SOUTH

ZIP CODE 97060
420★Schlechter Lawrence 667-2264
430 Lindberg Lindy E bldg contr ◎

542
PERSHING CT SE (GRESHAM) FROM SE 180TH AV EAST 1 NORTH OF SE HAIG DR

ZIP CODE 97030
18010 Mc Laughlin James C ◎ 761-4088
18011 Noteboom Duane ◎ 761-4126
18029 Bitney Robt B 760-4740
18030 Dezellem Eldon R ◎ 761-7465
18040 Kistner Donald R ◎ 665-2279
18041 Michael Richd ◎ 665-2776
18044 O'Brien Carl ◎

602
PHOEBE CT SE (GRESHAM)—FROM 2243 SE CLEVELAND AV WEST IN A SEMI-CIR

ZIP CODE 97030
828 Witherow Wm ◎
831★Morgan Marvin E ◎ 667-1744
846 Syron Larry A ◎ 665-8710
863 Callicotte Harry L ◎ 666-4634
884 Wilson Rudolph H ◎ 667-5169
903 Bowling James ◎ 666-5072
912 Hanson Ronald W ◎ 666-5150
929 Mc Intyre Donald
944 Epperson Donald W ◎ 665-2693
976 Pool Frank Jr 665-7250

642
PHYLLIS CT NW (GRESHAM)—FROM NW 1ST ST NORTH 1 EAST OF NW GIESE AV

ZIP CODE 97030
35★Jepson Wilbur W pntg contr ◎ 667-6794
40★Harris Gene E ◎ 667-6225
75★Newlun Wm K ◎ 665-1667
90★Pierce A ◎
102★Strutz Larry C ◎ 667-5365
105★Erickson B B ◎ 667-6276
122★Baxter H Craig ◎ 666-7607
125★Schlutz Walter
152 Vacant
155★Johnson C
192 West
205 Under Constn
210 Vacant
215★Madsen Gail F ◎ 665-7884
218 Vacant
731★Fischer Albert M ◎ 667-1047

547
PINE CT SE —FROM DEAD END WEST 2 EAST OF SE 113TH AV

ZIP CODE 97216
10944 Bull Kenneth ◎ 252-1693
10948 Ayers Lawrence W ◎ 255-1309
10955 Bachhuber Mary J Mrs ◎
10958 Sirianni Rudy E ◎ 253-3048
11005 Gianoli Charles L ◎ 255-9668
11006 Johnson Roy L Rev ◎ 252-9554
SE 111TH AV INTERSECTS
11204 Jeter Harold A 252-6875
11205 Dunaway Thos F ◎ 253-9159
11208 Smith Maurice M ◎ 254-4674
11209★Olsen D H ◎
11216 Chase Morris ◎ 253-0442
11220 Mc Whorter Jay A ◎ 253-3070
11221 Parks Walter N Jr ◎ 254-8905
11224 Barchus Wayne K ◎
11228 Anderson Jack E ◎ 253-9098
11236 Leidig Lois M Mrs ◎ 254-3535
11241 Olcott Richd H 253-9092
11242 Stempel Ernest C ◎ 253-0888
11254 Mc Connell Grace M Mrs ◎ 253-0697
11255 England Donald L ◎ 254-7619
11262★Hiller D W ◎
11268 Haygarth Thos V ◎
11275 Vacant
11276 Ferris W S ◎ 255-8012
11282★Rowley David T 255-4529
11283 Long Bill ◎ 252-4280
11286 Bird Ruby Y Mrs ◎ 254-2376
11291 Mc Carthy Donald P 252-1864
11292 Hardegger Richd J ◎ 252-0059
11295 Yoshida J T ◎
11296 Coles Roy W ◎
SE 113TH AV INTERSECTS
11313 Rindt Charles R ◎ 255-5682
11314 Campbell Beau G ◎ 256-2607
11328 Hatfield Allen B ◎ 253-4389
11333 Fry Ronald F ◎ 255-4012
11340★Middelhoven Edgar H ◎ 255-0064
11403 Casteel Sidney M ◎
11410 Powers Paul E real est ◎ 255-9387
11415 Bills Harley B ◎ 253-8447
11424 Hurlbut Judson T ◎ 254-7766
11432 Yoakum Calvin C ◎ 254-9501
11436 Halverson Harvey R ◎ 256-0603
11437 Melzer Margt Mrs ◎ 255-0548
11440 No Return
E BURNSIDE ST INTERSECTS

545
PINE ST SE —FROM 110 SE 97TH AV EAST

ZIP CODE 97216
9809 No Return
9810 Winslow Arth J Jr ◎ 253-0346
SE 99TH AV INTERSECTS
9936 Billingslea Mollie L Mrs ◎ 254-4686
9956 Griffith Leo ◎ 255-2653
10059 Russellville Assembly Of God Church 253-2945
10105★West Jay M 254-6807
10110 Sevey David 254-9617
10112 No Return
10114★Eddy Carolyn M 254-4206
10116★Carlson John M
10121★Samples James R 256-1039
10140 Vacant
SE 102D AV INTERSECTS

547
11315★Malchert F H Jr ◎ 255-2041
11326 Trask Montie L ◎ 254-3982
11335 Ferland Esther Mrs ◎ 254-0000
11338 Martin Travis B 253-7891
SE ASH CT INTERSECTS
11410 Huisman Danny L ◎ 254-0708
11415 Bryan Patk H ◎ 255-0791
11424 Kreutz Guy ◎
11438 Jensen Stewart 254-4737
11441 Lackstrom John S ◎ 256-0082
11452 Buffington James R ◎ 252-3129
11455 Graves M V Mrs ◎ 254-5869
SE 117TH AV INTERSECTS
11705 No Return
11721 Hartman Charles H ◎ 253-5631

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NW 5TH ST (G)—Contd
815 Larson Leland E ◎ 665-0227
840 Flanagan James E ◎ 665-9267
845 Curtis Edgar T 665-6698
880 Olson Carol L Mrs ◎ 665-1883
895 Olsen Sam G ◎ 666-6537
900 Helding John F ◎ 666-1017
920 Lillard John D ◎ 666-2131
NW 6TH ST INTERSECTS

604

NW TOWLE AV INTERSECTS
1500 Vacant
1505 Lee Edw B Jr ◎ 665-0442
1520 Tallman Constance H Mrs ◎ 665-1706
1525 Bankston Norman V ◎ 666-1019
1540 Blakely
1545 Huddle Betty J Mrs ◎ 665-7545
1560 Leslie
1565 Hodge David J ◎ 665-3032
1605 Chatfield S A ◎ 665-9048
1610 Wright Joe E ◎ 665-7933
NW ANGELINE AV INTERSECTS
NW BELLA VISTA DR INTERSECTS
1845 Gallagher John R ◎ 666-1738
1865 Whittenberg Jacqueline N Mrs ◎ 665-7813
1895 Larson Eric C ◎ 665-3771
1925 Hug Edwin W ◎ 665-8862
1965 Yungeberg Robt L ◎ 666-3272
1985 No Return
2010 Vacant
2015★Lopes Serrao Mike V ◎ 666-1976
2025 James Robt G ◎ 665-0521
NW RIVERVIEW PL INTERSECTS
2175 Payne Arnold J 667-2381
NW BIRDSDALE AV INTERSECTS
2220 Stamm Delmar D ◎ 665-4559
2280 No Return
2290 Larsen Richd D ◎ 666-5831
2309 Welsh Bennett M ◎ 665-3452
2400 Craddock Ronnie ◎ 665-1938
2410 Zabloudil David G ◎ 666-0932
2450 Rogge Emil G ◎ 665-7393
2460 Hank's Strawberry Farm 665-5650
Henry Harold G ◎ 665-5650
NW ELEVEN MILE CT INTERSECTS

602

5TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST 3 SOUTH OF E POWELL BLVD

ZIP CODE 97030
435 Welty Clara B Mrs ◎ 665-3538
510 Lundquist Marvin C ◎ 666-2438
511 Long Mark A ◎ 666-4742
516 Hanna Wm L ◎ 665-8464
520 Doering Anthony F ◎ 665-6687
521 Wolfe Michl ◎ 666-2786
522 Austinson Alma T Mrs ◎ 665-5880
SE KAY PL INTERSECTS
540 Karlen Ernest R ◎ 665-5421
541 Nau Robt W ◎ 666-1970
610 Ott Alvin A ◎ 665-8384
617 Smith Alma R Mrs ◎ 665-5274
644 Bamburg James W 667-6051
676★Hunter Carol Mrs
SE LINDEN AV INTERSECTS
705 Lapp Ralph E ◎
711 Bies Philip N ◎ 665-4396
SE JUNIPER AV INTERSECTS
800 Dorsey Dennis P ◎ 665-8881
810★Jenness John J 667-5844
811 Weiss Walter W ◎ 666-1920
820 Knosp Delvin E ◎ 665-8688

601

SE SPRUCE AV INTERSECTS
900 East Gresham Grade School 665-3995
931 Weisgerber David J ◎ 667-0692
935 Schaer Andrew E ◎ 665-7694
1105★Armstrong Eric L
1115★Nelson Gary M 667-6447
1145 Baird Donald 666-9051
1155 Bryant Robt N 666-3008
1165 Munsell Paul R
1175★Fox Janet A Mrs 667-5805
1185★Pearson Robt
1195★Cortez Joseph 666-4331
1205 Young
1215★Kawata Dale 666-3453
1235 Richey Archie R 666-8516
1255★Harshman Joyce 666-8738
1257 No Return
1265 Duggins Gary G 666-3024
1275★Hall David 667-4185
1285 No Return
1305★Utting Ralph R 666-7801
1315★Petersen Joel W 665-0869
1335 Kinnear Michl ◎ 667-4815
1345 No Return
1365 Vacant
1375★Swanson Mildred M Mrs ◎ 665-1669
1385★Barley M 667-1935
1395★Richardson Helen A Mrs ◎ 665-0730
1400 Dexter-Mc Carty School 665-0148
Gresham Elementary School Dist No 4 665-7138
1425★Leyerle Robt S 667-6167
1435★Albright T F 665-2753
1445★Paynter Marilyn
1455 Isham Gary C ◎ 666-8638
1465 Cumby Wm C 665-0752
1475 Viltrakis Geo A 665-5702
1485 Yoder Olin 667-3519
1495 Vacant
SE VISTA AV INTERSECTS
1585 Vacant
1595 Fulton Richd J 665-6930
1615★Miner Ronald E 667-0484
1625★Troutner Toni A Mrs 667-0138
1635★Heaslett D
1645★Mc Lain T H 667-3671
1695 Brown Dale B 665-7257
1705★Higgins Jennie
1715★Riley A ◎
1725 Fahey

610

3780 Green Walter A Jr ◎ 665-4029
SE CENTURION AV ITERSECTS
3810 Gill Wm J ◎
3815 No Return
3830 Spring James R ◎ 665-1742
3860 Johnson Robt G ◎ 666-3219
3865 Vacant
3875 Griffin Dale H 665-0767
SE BARNES AV INTERSECTS
4025★Ludlow R Stewart ◎ 667-1095
4047 Vaughan James ◎ 667-1345
4050 Edenburn Murle D ◎ 667-0927
PALOMA AV INTERSECTS
4269★Anderson John P ◎ 666-6598
4289★Fouts Jeffrey T ◎ 665-6785
4320 Vacant
4323 Brill Lawrence A ◎ 665-7804
4357 Brady Patk T 666-3259
4362★Straight Wm D ◎ 666-3683
4388 Vacant
4391 Nelson Ronald F ◎ 667-1374
4421 Kelley Milferd
SE HANCOCK LA INTERSECTS
4467 Vacant
4490★Schnack Donald J 666-9614
4499★Mehrens Wm W ◎ 666-9323
4564 Garrick David Jr ◎
4567 No Return
4592 Branville G D ◎
4593 Wallace Lauren R ◎ 666-6798

300

5TH ST SE (TROUTDALE)—FROM BUXTON RD EAST 4 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Moen Eileen R Mrs ◎ 665-2506
136 No Return
148 Bourne Fredk 666-7837
SE DORA ST INTERSECTS
235★Wikowsky Laurence O 665-4833
244 Ferguson Bill 666-2961
245 Kramer David ◎ 666-5014
SE HARLOW ST INTERSECTS
365 Smith S
SE KIBLING ST INTERSECTS
408★Mc Pherren Lyle F ◎ 665-8878
431 Otto Donna J Mrs ◎ 666-2272
433 Paine Carroll A 665-0287

603

5TH ST SW (GRESHAM)—FROM 510 SW WALTERS DR EAST

ZIP CODE 97030
222 Nelson Scott ◎ 665-6007

642

3750 Under Constn
3790 Under Constn
SW HARTLEY AV INTERSECTS
3905 Vacant
3915 Vacant
3925 Under Constn
SW NANCY AV INTERSECTS
4000 Under Constn
4073 Vacant
4077 Under Constn (4 Hses)

610

6TH CT NE (GRESHAM)—FROM 595 NE SCOTT AV EAST

ZIP CODE 97030
3531 Carlsen Kenneth C ◎ 666-2681
3553 Kolb Bruce G 667-0267
3554★Sieverson Richd ◎ 665-6920
3574 No Return
3583 Lind David E ◎ 666-4670
3586 Vacant
3588 Hutchinson Bill 665-4969
3590 Stinson Richd H 666-6034
3613 No Return
3623★Kittelson C A 665-2441
3624 Cooper Wm R Jr
3625 Olson Arth H ◎ 666-5006
3634★Looyens Louis F ◎ 667-5709
3636 Groesch M
3666 Akin James M ◎ 665-5635

604

6TH CT NW (GRESHAM)—FROM A POINT WEST OF 685 NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1520 Vacant
1555 Dorsing Ray M ◎ 665-8011
1560 Vacant
1580★Taylor Wm 667-6066
1585 Sagaert Ronald T ◎ 665-0651

603

6TH CT SW (GRESHAM)—FROM 546 SW 6TH ST EAST IN A SEMI-CIR

ZIP CODE 97030
505 Downing Charles ◎ 665-9075
513 Carbone Leo E ◎ 665-7468
523 Findlay Matt ◎ 667-7794
533 Cuda Anthony ◎ 666-5769
543 No Return
545 Baker Gregg ◎ 665-8604

604

6TH DR NW (GRESHAM)—FROM 620 BELLA VISTA DR WEST

ZIP CODE 97030
1780 Reed Ralph L ◎ 665-2621
1795 Mc Keon Bruce C ◎ 665-0326
1800 King Miles A ◎ 665-3546
1825 Furniss A Victor ◎ 665-0642

TEL. 665-4948
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Gresham 97030

TP	Adjoining	Source
✓	✓	R.L.Polk Co.

HARLOW ST SE 1970

NE HANCOCK ST—Contd

NE 120TH AV INTERSECTS
11955 Cermack Allen F ◎ 255-2245
12007 Zank Erwin A ◎ 252-4531
12019 Bouras Steve ◎ 252-0734
12025 Munsinger Lyle F ◎ 253-6955
12026 Blakely Robt E ◎ 253-7638
12051 Flaig Ervin R ◎ 253-9993
12109 Kekrids Christos ◎ 253-2513
12122 Schilling John ◎ 252-6763
12125 Graham Homer D ◎ 252-4278

131

ZIP CODE 97230
NE 126TH PL INTERSECTS
12634 Mc Allister Harry ◎ 254-8603
12650 Mowlds Audrin A ◎ 255-9449
12651 Torgerson Kenneth L ◎ 252-6141
NE 127TH AV INTERSECTS
NE 129TH AV INTERSECTS
12915 Mowry Frank L ◎ 254-7723
12916 Slegers Richd K ◎ 253-2310
12923 Hodges Ruth Mrs ◎ 254-7500
12924 Burrows James ◎ 252-3827
12938 Bennett Richd N ◎ 255-2989
12939 Mc Guigan James C ◎ 253-3301
12946 Deer James W ◎ 254-8134
NE 130TH AV INTERSECTS
13007 Spanopoulos Nick ◎ 254-0703
13008 Kerr Joe E ◎ 255-0673
13021 Yoho Margt E Mrs ◎ 254-2577
13022 Pinchin Wm J ◎ 252-7048
13038 Clark Richd K 254-6994
13041 Varvel J David 255-3720
13108 Tovey Donald M ◎ 252-4784
13111 Curnell Patricia F Mrs ◎
13121 Waltz Wm O Rev ◎ 254-8203
13122 Banker Carl G ◎ 253-6418
13134 Vincent Geo ◎
13135 Ford Vern

133

NE 134TH PL INTERSECTS
13455 Schmidt Lester J ◎ 254-4600
13526 Piercy Harold E 252-7375
13600 Schrag Alwyn J ◎ 254-4587
13601 Estes Marion L Mrs ◎ 253-5997
13625 Flood Molly G ◎ 253-5883
13630 Hopper Richd F ◎ 252-0524
NE 137TH AV INTERSECTS
NE 144TH AV INTERSECTS
14414 Cramer Wm A bldg contr ◎ 255-1353
14415 Calkins R Clark ◎ 253-6483
14433 Arrigotti Martin L ◎ 253-5239
14504 Hues Clarence E ◎ 253-9276
14520 Malueg Nick J ◎ 254-6370
14525 Hill Steph B ◎ 255-1137
14537 Sundberg Emery N ◎ 252-2673
14540 Albertson Ewing E ◎ 253-6202
14607 Goodell Alan R ◎ 254-1546
14608 Mc Graw James E ◎ 254-2547
14624 Morton Michl
14625 O'Byrne Bernard J ◎ 252-1974
14640 Emco Garbage Collection 253-2919
Reich Henry ◎ 252-3778
14641 Schmitz Joseph M ◎ 253-2592
14705 Kansky Geo W ◎ 252-4346
14714 Wilson Matt O ◎ 253-4377
14719 Mc Manus Worth E ◎ 254-9639

135

NE ENQUIST WY INTERSECTS
17247 Pershall J Fred ◎ 254-4040

125

HARLOW ST SE (TROUTDALE)—FROM E COLUMBIA ST SOUTH, 2 EAST OF BUXTON RD

300

ZIP CODE 97060
100 Bissinger & Co hide wool tallow whse 665-9136
115 Union Pacific System Depot 665-6348
116 Moller's Nursery (Whse)
126 Imthurn Laura A Mrs ◎ 665-2967
Jones Alex M
Jones Frank S 665-4572
138 Albin Russell S ◎ 665-6665
SE 2D ST INTERSECTS
207 Ferch Walter W 665-3351
208 Thornton Douglas S 665-0798
234 Vacant
235 Chambers Clara ◎ 666-1470
236 Parker Larry
243 Nygard Marilyn
244 Bunting Arth W ◎ 665-7940
SE 3D ST INTERSECTS
302 Parks John H Rev 665-0581
310 Troutdale Full Gospel Church 665-0581
323 Erion Ruth E Mrs 665-2705
SE 4TH ST INTERSECTS
411 Mc Manus Dean ◎ 665-4917
422 Waid James V 665-4283
432 Arlint C L ◎ 665-6945
533 Smith Jerry E 666-2471
6TH ST INTERSECTS
603 Smith Eugenia Mrs ◎ 665-3346
648 Troutdale Grade School 665-9161

168

HARNEY DR SE —FROM SE 45TH AV EAST, 1 SOUTH OF SE UMATILLA DR

ZIP CODE 97206
4504 Creekside One Hour Martinizing 774-7024
4515 Thompson Mac F ◎ 775-8437
4543 Kramer Orin W ◎ 771-9536
4600 Precision Castparts Corp metal die casting 777-3881
4807 Armstrong Bruce A
4903 Egan Richd A 774-7962
4905 Grolbert Richd H ◎ 777-1967
4917 Felix Stephen S ◎ 771-8710
4943 Vacant
5011 Rankin Eug E ◎
5027 Genders Oscar K
5100 White Stag Mfg (Admn Bldg) 771-1711
5111 Leuthold Anna Mrs ◎ 771-4303
SE 52D AV INTERSECTS
5200 White Stag Mfg clo 777-1711
5241 Johnson Mel A 775-1894
5255 Britzius Harry L ◎
5305 Lucia Larry
5308 Martin Mathias J ◎ 771-0170
5313 Torelle Joseph F ◎ 771-7096
5323 Strassburg Robt D 771-6213
5410 Whitney Harry W 775-9253
5420 Vacant
5430 Groth Carl H ◎ 777-1602
5445 Borgensgard Chris ◎ 771-2283
SE 55TH AV INTERSECTS
SE MALDEN DR INTERSECTS
5629 Hermle Steve ◎ 774-2260
5655 Grant Charles E ◎ 775-2159
SE 57TH AV INTERSECTS
5720 Stevens L D ◎ 771-6473
SE 58TH AV INTERSECTS
5849 Hodge Matthew C ◎ 771-9202
5872 Crest Apartments
A Vacant
B Gleason Gary W 774-4410
C Brinkman Patricia
D Johnson Richd B 775-6132
E Delph Gordon L 775-1045
F Cottle Wm D 771-3739
G Vacant
H Vacant
J Metzger Jerald E 771-9718
5909 Gross Arnold C ◎ 774-0091

170

HARNEY ST SE —FROM SE FLAVEL DR EAST, 5 SOUTH OF MALDEN DR

ZIP CODE 97206
5905 Guy Leslie R ◎
5950 Goff Warren ◎ 774-7276

TP	Adjoining	Source
-	✓	R.L.Polk Co.

4TH ST SE 1970

SE 4TH ST (G)—Contd
1127 Yamamuro Geo ◎ 665-7697
1128 Cox Joseph A ◎ 665-6870
1210 Rowlands Floyd C carp ◎ 665-3972
1217 Church Of Christ 665-3311
Shalom Day Nursery 665-1364
1220 Krueger Wm F ◎ 665-3419
1310 Painter Gregory 665-9048
1315 Wills Geo F ◎ 665-6056
1320 Spike Robt M
1330 Carpenter Len L 666-3221
1340 Van Voorhees Kenneth L 665-8479
1345 Hanson Richd L 665-8451
1375 Mc Laughlin Gerald L ◎ 665-0545
1380 Swanson Kenneth H ◎ 666-1632
1409 Condon Wm A ◎ 665-4027
1410 Norton Marjorie Mrs
1415 Crane Wm R ◎ 665-0975
1421 No Return
1440 Taylor Preston A 666-1057
Noel Grant E 665-6070
SE VISTA AV INTERSECTS
1505 Gladen Russell H ◎ 666-2600
1530 Rucker Dora R Mrs ◎ 665-9834
1550 Gradwohl Charles D ◎ 665-7837
1555 Loftin Danny P 666-1236
1575 Stuart John L 666-2508
1605 Barrus Darrell D 665-0941
1610 Kirwan Frank ◎ 665-8421
1615 Trent Sherrill H ◎ 665-0614
1624 Long Stanley J ◎ 665-2072
1625 Jackson Marshall P ◎ 665-7304
1654 Ames John A 665-9468
1700 Dahm Ray G ◎
1715 Raff Aldridge ◎ 665-9698
SE HOGAN RD INTERSECTS

300

4TH ST SE (TROUTDALE)—FROM BUXTON RD EAST, 3 SOUTH OF COLUMBIA ST

ZIP CODE 97060
DORA ST INTERSECTS
105 Sowell Delores ◎ 665-2346
206 Parker Arnold L ◎ 665-3880
247 Edgley Vera V Mrs ◎ 665-9781
HARLOW ST INTERSECTS
346 O'Neal John L ◎ 666-1725
KIBLING ST INTERSECTS
434 Lampert Donald ◎ 665-8792
435 Vacant
SANDY ST INTERSECTS

300

4TH ST SW (TROUTDALE)—FROM BUXTON RD WEST, 3 SOUTH OF COLUMBIA ST

ZIP CODE 97060
107 Parsons Dale ◎ 665-3208
133 Lucas Joseph C ◎ 665-5574
204 Boswell Wayne D ◎
206 Borchers Claire W ◎ 665-4975
225 Espenel Donald L ◎ 665-2275
242 Espenel Wayne ◎ 665-4406
300 Troutdale Rod & Gun Club

204

5TH CT NW (GRESHAM)

ZIP CODE 97030
1440 Johnson Jack A ◎ 666-3295
1445 Langer Curtis P ◎ 666-1120
1460 Lowry Donald W ◎ 665-3606
1465 Wilson David K 665-3606

200

5TH ST NE (GRESHAM)—FROM N MAIN AV EAST, 5 NORTH OF E POWELL BLVD

ZIP CODE 97030
27 Whetzell Earl V 665-5346
27a Marsh Dan 666-1877
28 Bottorff Charlotte I 665-3408
28a Caldwell Paul D 666-2534
NE ROBERTS AV INTERSECTS
131 Bisby Donald D
150 La Londe Lena E Mrs ◎ 666-1665
206 Powell Sibyl Realtor 665-4312
NE HOOD AV INTERSECTS
NE BEECH AV INTERSECTS
410 Hewlett James C ◎ 665-6419
430 Weisenhaus Clifford E ◎ 665-5310
480 Price Joseph W ◎ 665-3048
485 Germundson Millie Mrs 666-1788
NE KELLY AV INTERSECTS
530 Mott Ronald L ◎ 666-2627
550 Mc Cannon Ella D Mrs 665-3602
NE ELLIOTT AV INTERSECTS
615 Lauderback Thos H ◎ 665-2029
640 Gaggero Al ◎ 665-1032
679 Cox Edw R
NE LINDEN AV INTERSECTS
725 Foxon Keith F ◎ 665-9692
755 Stratton Bryan ◎ 665-3960
775 Robinson Wayne F ◎
NE JUNIPER AV INTERSECTS
815 Bettencourt Enos L ◎ 665-5938

163

5TH ST NE (FAIRVIEW)—FROM THE 500 BLOCK OF DEPOT SOUTHEAST

203

5TH ST NW (GRESHAM)—FROM N MAIN AV WEST, 5 NORTH OF W POWELL BLVD

ZIP CODE 97030
50 Safeway Stores Inc gro
NW MILLER AV INTERSECTS
NW NORMAN AV INTERSECTS
609 Mc Coy Nona Mrs ◎ 665-7556
645 Johnson John A ◎ 666-2607
650 Crowley Lawrence ◎ 665-9572
655 Onchi Joe M ◎ 665-7449
670 Herman Fredk J ◎ 665-7998
715 Schreiber Arth C ◎ 665-3023
750 Lader Rudolf ◎ 665-7437
800 Sodorff Fred J Jr ◎ 665-4311
845 Baker Robt A ◎ 666-1166
880 Olson Robt L ◎ 665-1883
900 Helding John F ◎ 666-1017
920 Lillard John D ◎ 666-2131

204

NW TOWLE AV INTERSECTS
1500 Johns Marvin R ◎ 665-9589
1505 Lee Edw B ◎ 665-0442
1520 Tallman Constance H Mrs ◎ 665-1706
1525 Bankston Norman B ◎ 666-1019
1540 Blakley Carl E ◎ 665-6926
1545 Wagner James M 666-2104
1560 Manthey Donald W ◎ 665-5853
1565 Ball Ronald D ◎ 665-3041
1605 Homlund John R ◎ 665-6440
1610 Wright Joe E ◎ 665-7933
NW ANGELINE AV INTERSECTS
NW BELLA VISTA AV INTERSECTS
1845 Christensen Dwayne 666-2351
1865 Whittenberg David ◎ 665-7813
1895 Berg Howard G ◎ 665-8008
1925 Hug Edwin W ◎ 665-8862
1965 Gooddard James P
1985 Lauterbach Dell D ◎ 665-4389
2010 Boice M V ◎ 666-2662
2015 Gardner Larry F ◎ 665-5226
2025 James Robt G ◎ 665-0521
2309 Welsh Bennett M ◎ 665-3452
2400 Hanks Strawberry Farm 665-5650
Henry H G ◎ 665-5650
2410 Johnson Gary W 666-1485

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TP	Adjoining	Source
-	✓	R.L.Polk Co.

5TH ST SE 1970

202

5TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST, 3 SOUTH OF E POWELL BLVD

ZIP CODE 97030
435 Welty Charles P ◎ 665-3538
510 Lundquist Marvin C ◎ 666-2438
511 Curtis Robt C ◎
516 Hanna Wm L ◎ 665-8464
520 Doering Anthony F ◎ 665-6687
521 Herzog Albert L
522 Vacant
540 Karlen Ernest R ◎ 665-5421
541 Patton Lyle W ◎ 665-7236
610 Ott Alvin A ◎ 665-8384
617 Smith Alma R Mrs ◎ 665-5274
644 Hornbuck Lois J Mrs ◎
676 Creel Geo C ◎ 665-4426
SE LINDEN AV INTERSECTS
705 Lapp Ralph E ◎
711 Bies Philip N ◎ 665-4396
SE JUNIPER AV INTERSECTS
800 Dorsey Dennis P ◎ 665-8881
810 Wright Lewis H ◎ 665-7013
811 Weiss Walter W ◎ 666-1920
820 Fowler Donald C ◎ 665-8279

201

SE SPRUCE AV INTERSECTS
900 East Gresham Grade School 665-3995
SPRUCE AV INTERSECTS
931 Kinnear Duane E ◎ 665-6857
1 Bates Terry L 666-1138
2 Onchi Ray S 665-3321
935 Schaer Andrew E ◎ 665-7694
1065 Under Constn
1400 Dexter-Mc Carty School 665-0148

300

5TH ST SE (TROUTDALE)—FROM BUXTON RD EAST, 4 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Moen Eileen R Mrs ◎ 665-2506
136 Green Thos 665-0566
148 Talbott Walter B ◎ 665-0920
DORA ST INTERSECTS
235 Jackson Walter C ◎ 665-4833
244 Turner Leroy 666-3531
245 Temple Thelda Mrs
HARLOW ST INTERSECTS
365 Barrett Charles 665-6982
KIBLING ST INTERSECTS
408 Reed Howard F
431 Otto Allan D ◎ 666-2272
432 No Return
433 Barrett Charles Z ◎ 665-6982

204

6TH CT NW (GRESHAM)—FROM A POINT EAST OF 685 NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1440 Walker Wayne A ◎ 665-8381
1450 Richards Carl N ◎ 665-5440
1455 Feldman Mark L
Feldman Albert A ◎ 665-9315
1460 Hoffman Francis E 665-9227
1465 Schmidt Geo S 665-5015
1470 Newman Gerald B ◎
1475 Joyner Robt L ◎ 665-3397
1480 Hibbs Donald F ◎ 665-0600
1485 Klapstein Earl L Dr ◎ 665-0610
1520 Holevas Fred P ◎ 665-4014
1555 Dorsing Ray M ◎
1560 Herman Harold V ◎ 665-0319
1580 Shields Roger J ◎ 665-7845
1585 Steckmest Erik ◎ 665-2247

204

6TH DR NW (GRESHAM)—FROM DEAD END WEST, 1 EAST OF BELLA VISTA DR

ZIP CODE 97030
1780 Reed Ralph L ◎ 665-2621
1795 Weyermann Gary L ◎ 666-1286
1800 King Miles ◎ 665-3546
1825 Furniss A Victor ◎ 665-0642
1840 Rupp Frank M ◎ 665-7002
1855 Townsend Dorothy J Mrs ◎ 665-8993
1860 Seargeants Paul L ◎ 666-1285
1885 Meister Elsie M Mrs ◎ 665-8568
1890 Harmon Harold 666-2878
1915 Wallen James H ◎ 665-0576
1920 Wilson Mae Mrs ◎ 665-6979
1945 Sprenger Dan D ◎ 665-0871
1960 Dexter G Virgil Rev 665-2533
1975 Sharkey J Allan ◎ 665-9051
1980 Barnard Gary R ◎ 665-5975
2005 Yutze Otto G ◎
2010 Thomas Peter T ◎ 665-7390
2020 Shepherd Marjorie Mrs ◎ 665-7619
2025 Kennedy Raymond ◎

204

6TH PL NW (GRESHAM)—FROM NW CASCADE CT WEST 1 SOUTH OF NW 7TH PL

ZIP CODE 97030
2178 Shockley James L ◎ 665-8561
2185 Hessian John ◎ 666-3228
2198 Welo Vern R ◎ 665-6619

200

6TH ST NE (GRESHAM)—FROM NE HOOD AV EAST, 1 NORTH OF NE 5TH AV

ZIP CODE 97030
700 Acme Hardwood Floor Co (Whse)
890 Vacant
895 Bureau Of Public Works-Road Dept 665-5692

163

6TH ST NE (FAIRVIEW)—FROM THE 600 BLOCK OF DEPOT SOUTHEAST

ZIP CODE 97024
25 Hunter Joseph J ◎ 665-5393
DEPOT ST ENDS
30 Phipps Melvin O ◎ 666-1482
55 Roberts Julia M Mrs ◎ 665-4501
MAIN ST INTERSECTS
150 Klinger Howerd D
160 Davidson Edw I ◎ 665-8220
CEDAR ST INTERSECTS
225 Vacant
245 Achziger Terry 665-1848
265 No Return
275 Moore Forest O 665-0645
280 Henry Herman C 665-4008
285 Balton Wm E 666-1702
Links Ronald A 665-1707
HARRISON ST INTERSECTS
LINCOLN ST INTERSECTS
315 Olin Lanny R ◎
320 Callaway Orville ◎ 665-9728
340 Brinser John H ◎ 665-6241

.E. 4th STREET
PHONE 665-3283
GRESHAM
Auto - Mirrors - Storm Doors and Windows

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6TH ST SE 1970

Who's Who— and here?

Such questions can only be answered by Directory and that is where people look when they want to buy.

Are you properly displayed therein to get the business?

METROPOLITAN AGENCIES, Inc.
"Free" Pre-Collection Letters and Final Demand Service
COMMERCIAL - PROFESSIONAL
4580 Southwest 103rd Avenue, Beaverton Phone 646-5138

NE 6TH ST (F)—Contd
345 Wood Kenneth T
360 Swartz Guy
370 Humphreys Gale R
400 Fairview Nursery day nursery 665-3864
Dotson Darrell
HALSEY ST INTERSECTS

205

6TH ST NW (GRESHAM)—FROM NW NORMAN AV WEST, 3 NORTH OF NW 1ST ST

ZIP CODE 97030
NW DAY DR INTERSECTS
790 Williams John C Jr ◎ 665-3862
840 Mishima Henry ◎ 665-3475
NW 5TH ST INTERSECTS
875 Froese Oscar T ◎ 665-9719
890 Morgan Hector ◎ 665-7930
935 Kehret Ernest W ◎ 665-6921
NW OVERLOOK AV INTERSECTS
1095 Gee John R ◎ 665-2934
1200 Savage Charles H ◎ 665-6493

206

6TH ST SE (GRESHAM)—FROM FRANCIS AV EAST, A CONTINUATION OF SE BURGESS ST

ZIP CODE 97030

300

6TH ST SE (TROUTDALE)—FROM BUXTON RD EAST, 5 SOUTH OF COLUMBIA ST

ZIP CODE 97060
131 Barclay H F ◎ 665-3703
DORA ST INTERSECTS
134 Wilson Gladys Mrs ◎ 665-0363

204

7TH CT NW (GRESHAM)—FROM NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1555 Macomber Ashley 665-1303
1560 Cremer Ferdinand ◎ 665-5921
1580 Fisher Wm J ◎
1585 Garner Gene A ◎ 666-1869

204

7TH PL NW (GRESHAM)—FROM 720 BELLA VISTA DR WEST

ZIP CODE 97030
1745 Weberg Charles A ◎ 665-6643
1775 Riehl Albert D ◎ 665-7363
1780 Fast Lee C 666-3201
1815 Faatz Lawrence B ◎ 665-2428
1820 Carvel Chuck E ◎ 665-2769
1840 Frisco Harvey H ◎ 665-3278
1845 Bray Larry G 665-1969
1875 Chaney John W ◎ 665-2491
1880 White Thos A ◎ 665-1433
1910 Anderson L Roy
1915 Kirkwood Ross R ◎ 665-9863
1940 Streng Frank H ◎ 665-9752
1945 Simshaw Roger M ◎
1970 Beeson John U 666-2063
1975 Mills Bert F ◎ 665-8443
2000 Knotts Guy D ◎ 665-8652
2005 Harlin Marion E ◎ 665-6980
2015 Roberts Thos E ◎ 665-1098
2030 Welliver Gary S ◎ 665-9695
2035 Hoffman Gene F ◎ 665-7255
2055 Swarthout Neil F Jr ◎ 665-6993
2060 Thomas Wm J ◎ 665-8817
NW RIVERVIEW PL INTERSECTS
NW CASCADE CT INTERSECTS
NW BIRDSDALE AV INTERSECTS
2220 Thompson Praxy A Mrs 665-3915
2230 Clendenning Bill J 665-0867
2240 Stevenson Wilford S ◎ 665-5942
2245 Mc Lenithan Norris W ◎ 665-5408
2260 Ward Robt E ◎ 665-7324
2275 Gill Raymond G ◎ 665-8626
2310 Sloper Raymond E ◎ 665-6538
2320 Ritschard Robt R ◎ 666-2119
2325 Rabe Maynard R ◎ 665-1217
2340 Hergert Agnes Mrs ◎ 665-2559
2345 Worsham G E ◎ 666-3645
2360 Weisser Lee ◎ 665-5725
2380 Tempest Wm H Rev ◎ 665-6947
2420 Vacant

200

7TH ST NE (GRESHAM)—FROM NE HOOD AV EAST, 2 NORTH OF NE 5TH AV

ZIP CODE 97030
333 Acme Feed Mills Inc 665-2019
355 Gresham Genl Hosp (Annex)

163

7TH ST NE (FAIRVIEW)—FROM THE 700 BLOCK OF DEPOT SOUTHEAST

ZIP CODE 97024
MAIN ST INTERSECTS
700 Danielson Mark ◎
710 Keutes Clarence ◎ 665-1488

202

7TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST,5 SOUTH OF E POWELL BLVD

ZIP CODE 97030
510 Menkins Wm M ◎ 665-3067
515 Mort Russell G ◎ 665-1386
525 Rollins John M ◎ 665-4973
530 Suelzle Benj M ◎ 665-2274
605 Borchers Edw C ◎ 665-5922
610 Kim Mary Mrs
615 Depta Eliz Mrs ◎ 665-4629
620 Hill L Fern Mrs ◎ 665-5431
625 Rose Rosa D Mrs ◎ 665-3824
630 Schilling Merrett M ◎ 666-3161
SE JUNIPER CT INTERSECTS
700 Belt Carl D ◎ 665-3434
710 Ballard Kenneth M ◎ 665-2447
715 Meier Theresa Mrs ◎
720 Dollowitch J Wm ◎ 665-6788
725 White Keith H ◎ 666-1620
730 Irvin L Arlow ◎ 665-1234
806 Moore Thos H Jr ◎ 665-7436
815 Bradshaw Orin E ◎ 665-3345
820 Crawford Robt H ◎ 665-4519

300

7TH ST SE (TROUTDALE)—FROM BUXTON RD EAST, 6 SOUTH OF COLUMBIA ST

ZIP CODE 97060
145 Lunday Linden ◎ 665-8660
146 Alexander Lloyd O ◎ 665-3402
DORA ST INTERSECTS
207 Lewis Wm H ◎ 665-4753
221 Reuter Sena 666-4642
242 Mitchell Melville L ◎ 665-3361

SINCE 1919
FINE FURNITURE AND APPLIANCES
2640 E. Burnside, Portland (97214) Phone 234-6638

7TH ST SW 1970

203

7TH ST SW (GRESHAM)—FROM 644 SW WALTERS RD WEST

ZIP CODE 97030
350 Sorensen Vernal T ◎ 665-9548

300

7TH ST SW (TROUTDALE)—FROM BUXTON RD WEST, 6 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Simons Frank 665-5981
246 Lewis Richd M ◎ 665-6510
300 Troxel Edw T ◎ 665-3968
301 City Reservoir
302 Irvin Duane W 665-5589
304 Irvin Richd D 665-6929
304a Musselman Howard
306 Ruth Ernest L ◎ 665-5302
350 Sorenson Vernal T 665-9548

204

8TH CT NW (GRESHAM)—FROM 885 NW BIRDSDALE AV WEST

ZIP CODE 97030
2290 Retzloff Donald G ◎ 666-3688

200

8TH ST NE (GRESHAM)—FROM NE HOOD AV EAST, 3 NORTH OF NE 5TH AV

ZIP CODE 97030
335 P & C Construction Co genl constn 665-0165
345 Lovern Irene N Mrs
357 Koshinsky Margt Mrs ◎ 665-0275
575 Vacant
NE BEECH AV INTERSECTS
603 Vacant
604 United Flav-R-Pac Growers Inc (Br) canners 665-3191
655 Cookhouse Cafe The 665-7715
665 Cahill Phillip L concrete contr
LINDEN AV INTERSECTS
815 Custom Wire Products Inc wire products mfg 665-5111
NE LINDEN AV INTERSECTS
900 Oregon State Employment Service (Farm Lab Div) 665-1815

201

NE CLEVELAND AV INTERSECTS

205

8TH ST NW (GRESHAM)—FROM 810 N MAIN AV WEST, 1 SOUTH OF NW DIVISION ST

ZIP CODE 97030
23 Million Malissa Mrs ◎ 665-0020
25 Moser Robin E ◎ 666-1984
NW EARL AV INTERSECTS
NW MIGNONETTE AV INTERSECTS
207 Barker Dewaine L
NW VICTORIA AV INTERSECTS
307 Brinckerhoff Hazel Mrs
319 Magee Andy S ◎ 665-2614
NW NORMAN AV INTERSECTS
615 Vacant
625 Wise Jack W ◎ 665-4522
645 Dunstan Marvin L ◎ 665-8091
685 Marks N Fred
715 Thomas Robt W ◎ 665-3637
745 Shinn Wayne O ◎
760 Flaherty Lawrence H ◎ 665-5987
765 Magionos Tikey ◎ 665-1482
815 Johnson Clair D 665-0846
820 Gresham United Methodist Church 665-1192
NW DAY DR INTERSECTS
835 Grass Robt L ◎ 666-3231
850 Leathers Charles C ◎
855 Bartholomew Frank ◎ 665-3527
Bartholomew Esther 666-1748
865 Ostrom Olga A Mrs ◎ 665-2449
875 Gotchling Durell F ◎ 665-4639
880 Roach Ida M Mrs ◎
900 Abts Gerald F ◎ 665-4318
905 Johnson Orville L ◎ 665-2545
925 Williams Theo E ◎
NW OVERLOOK AV INTERSECTS
1007 Howey Earl A ◎
1033 Toynbee Charles E ◎ 665-0887
1080 Tompkins Merle L ◎ 665-5338
NW FLORENCE AV INTERSECTS
1100 Shepperd Geo Jr ◎ 665-2419
1108 Gullikson Clair C ◎ 665-4326
1115 Sheets Jerry D 666-2058

300

8TH ST SE (TROUTDALE)—FROM BUXTON RD EAST, 7 SOUTH OF COLUMBIA ST

ZIP CODE 97060
DORA ST INTERSECTS
226 Vacant
HARLOW ST INTERSECTS

200

9TH ST NE (GRESHAM)—FROM NE HOOD AV EAST, 1 NORTH OF NE 10TH DR

ZIP CODE 97030
307 General Telephone Co Of The North West Inc 665-2615
320 Van Orsow Donald 665-1296
NE BEECH AV ENDS
405 Jones Lovie G Mrs 665-3232
433 Abraham Orren L ◎ 665-5490
600 Under Constn
NE ELLIOTT AV ENDS
NE LINDEN AV INTERSECTS
775 Preskey Douglas 666-2263
795 Morgan Jerold G 665-8762
831 Foust Ernie 666-7411
833 Jones Karen 666-3153
835 Martinson Nils ◎ 665-8280

205

9TH ST NW (GRESHAM)—FROM DEAD END WEST, 1 NORTH OF NW 8TH ST

ZIP CODE 97030
730 Crouser Larry G ◎ 666-3549
770 Fox Leslie H ◎ 665-4584
815 Seales Floyd W ◎ 665-5591

204

WALLULA AV INTERSECTS
1320 Sester Wm H ◎ 665-7889
1325 Smith Thos 666-1490
1360 May Ronald A ◎ 665-1445
1375 Hall Wayne H ◎ 665-5233
1400 Brennan John J ◎ 665-9084
1405 Johnston Yvonne G ◎ 665-1634
1425 Gibbs Fred B ◎ 665-0912
1460 Parnell Robt L ◎ 666-2268
1475 Stojanck Alf F ◎ 665-3613
1480 Castro Patk ◎

202

9TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST, 6 SOUTH OF E POWELL BLVD

ZIP CODE 97030
720 George Doris H Mrs ◎ 665-0891
733 Frey H Helen Mrs ◎ 666-2223
805 Miller Roy V Jr ◎ 665-0533
810 Okrasinski Margt Mrs ◎ 665-6365
833 Robinson Edgar S ◎ 666-1268
907 Hering Hermann L ◎ 665-4673
908 Anderson Ralph J ◎ 665-6012
920 Meier Gale H ◎ 665-2308

TP	Adjoining	Source
-	✓	R.L.Polk Co.

BUXTON RD 1970

FLOWERS TOMMY LUKE, Inc.

IF YOU HAVE A TELEPHONE, YOU HAVE A CHARGE ACCOUNT

625 S.W. MORRISON, PORTLAND — PHONE 228-3131
33d and N.E. SANDY BOULEVARD — PHONE 235-3131
MORGANS ALLEY, 515 S.W. BROADWAY — PHONE 228-3153
PORTLAND HILTON SHOP — PHONE 226-1611, EXT. 127

SE BUSH ST—Contd
SE 134TH ST INTERSECTS
13345 Yost Shirley Mrs ◎
13402 Ellingson D J 761-5714
13405 Allen Paule 761-2422
13410 Bryan Ledger A ◎ 761-6424
13411 Mc Dowall Richd
13429 O'Brien Michl S ◎ 761-0330
13430 Lueck Geo F ◎
13447 Horning Robt C ◎ 761-3817
13450 Raulerson Harold O ◎ 761-2668

150

SE 136TH AV INTERSECTS
13633 Hansen Richd A ◎ 761-7006
13636 Glasgow Walter ◎ 761-3438
13654 Yerman Joseph D ◎
13657 Keller Anton J
13701 Lichty John E ◎ 761-0546
13710 Shoemaker Saml S ◎ 761-2258
13717 Damon Oliver E Jr ◎ 761-0837
13731 Long A Raleigh ◎ 761-0332
13734 Garball Arth ◎ 761-1273
13745 Arvidson Gary ◎ 761-0618
13812 Nye Edw ◎ 761-9142
13815 Zitz Emil A Mrs ◎ 761-1873
13821 Haller Wm ◎ 761-1048
13835 Langan Danl W 761-3526
13838 Brooks Farrell C ◎ 761-3674
13844 Neidert Arnold H ◎ 761-0563
13901 Heath Walter V ◎ 761-0302
13910 Lindholm Gene R ◎ 761-0453
13929 Ashley Al 761-7545
13930 Harris Harold L ◎ 761-1049
14002 Davis Wesley P ◎ 761-2756
14005 Rosen James C ◎ 761-2539
14028 Blair Terry 761-8480
14029 King August 761-4875
14040 Trapp Walter A ◎ 761-1167
14045 Sanchez Joseph R 761-2489
14110 Nelson Fred R 761-7648
14111 Martin John E 761-6624
14115 Kling Joseph F ◎ 761-7226
14120 No Return
14120a Kibbon David
14147 Brown Steven R 761-8667
14201 Comstock Jon 760-2141
14202 Timberman Willard J ◎ 761-0654
14216 Lambert Leo ◎ 761-5296
14219 Furman Dale G. ◎ 761-0245
14230 Morfitt Ronald L ◎ 761-2304
14235 Vacant
14244 Mc Murry Ada Mrs ◎ 761-3339
14303 Jordan John M ◎
14314 Pallviny Harold H ◎ 761-1745
14323 Devlin Lorraine Mrs ◎
14334 Crenshaw Marvin L ◎ 761-8326
14343 Mackie Wilford ◎
14350 Chase Waldron E ◎ 761-8148
14361 Leach John C 761-8691
14400 Klann Claire Mrs 761-8260
14410 Eddleman Wilbur M ◎ 761-8046
SE 144TH AV INTERSECTS
14508 Chamberlain Glenn R ◎
14509 Thompson Ronald L ◎ 761-8309
14525 Polen Dennis M ◎ 761-8289
14530 Gowen Woodrow W ◎ 761-8841
14545 Funk Adolf ◎ 761-1971
14556 Hall Marlin D ◎
14619 Pernar Anthony V ◎ 761-8397
14620 Sargeant Ronald W ◎ 761-8268
14635 Siron Hartzel P ◎ 761-8346
14636 Haynes Lonnie G ◎
14704 Hahn Lue ◎ 761-1394
14707 Hanson Harold E ◎ 761-8279
14723 Peterson Howard M Rev 761-8317
14724 Perala Wm A ◎ 761-8376
14744 Whitford Donald R ◎ 761-8241
14747 French Clifford A ◎ 761-8170
SE 148TH AV INTERSECTS
14806 Saho Gabriel ◎ 761-4322
14813 Matzek Randall C ◎ 761-5386
14819 Wright Ted L ◎ 761-8418
SE 149TH AV INTERSECTS
14820 Hopkins H Joseph ◎ 761-3544
15021 Phillips Jay C
15040 Albrich Richd ◎ 761-6881
15041 Thompson Ray ◎
15051 Murphy James P ◎ 761-1406
15056 Lockner Richd G ◎ 761-8257
15421 Budworth Calvin E ◎
15426 Dixon James K ◎ 761-8175
SE 154TH AV INTERSECTS
15435 Werth Wm O ◎ 761-8948
15440 Walker Gary L ◎
15452 Kinzer Cath Mrs ◎ 761-8035
15453 Brittain Charles C ◎ 761-8783

140

SE 165TH AV INTERSECTS
16500 Jensen Bradley ◎ 665-6682
16504 Waters John 665-1315
16508 Sowden Chas 665-8326
16512 Pier Ron
16516 Keller Joan Mrs
16520 Celorie Richd C
16524 Cannucci John V 665-8669
16527 Griffith R C ◎ 665-5951
16528 Dickson Brent E ◎ 665-6489
16532 Jensen Carlene Mrs 665-6682
SE 166TH AV INTERSECTS
16610 Mendenhall Mike L ◎ 665-2443
16620 Smith Gary L ◎ 665-8885
16627 Schoppe John E J ◎ 666-2338
16642 Peterson Robt T ◎ 665-6459
SE 166TH CT BEGINS
SE 166TH PL INTERSECTS
16675 Schwartz Gary W ◎ 665-9463
16680 Heimbuck James L ◎ 665-2683
16691 Walters Edw F ◎ 665-2169
16696 Dipietro Joseph M ◎ 665-2315

300

BUXTON RD (TROUTDALE)—FROM COLUMBIA ST SOUTH, 1 EAST OF SW KENDALL ST

ZIP CODE 97060
127 Vacant
146 Wells Max 666-2901
2D ST BEGINS
223 Troutdale Po 665-3898
224 Parsons Linda 665-7403
SE 3D ST BEGINS
4TH ST BEGINS
408 Parke Clara Mrs ◎ 665-7742
425 Matches A H ◎ 665-2964
5TH ST BEGINS
526 Van Over Charles M 665-5641
528 Barker Alice A Mrs 665-1268
536 Mc Gilvroy Robt L 665-8367
538 Forsyth Judy L 665-4542
6TH ST BEGINS
608 Rigdon Dale 666-2190
619 Stoeckel Alf ◎ 665-0026
623 Nesbit Wm J ◎ 665-0423
641 Evans Jack S ◎ 665-2200
SE 7TH ST BEGINS
704 Semon Harold ◎ 665-9669
746 Kinslow Ralph L ◎
747 Redden Carl N ◎ 665-6461
SW MARTINE CT BEGINS
803 Britton Sid A ◎ 665-8347
828 No Return

DORA ST SE 1970

SE DIVISION ST (G)—Contd
SE 190TH AV INTERSECTS
19008 Starr Homer L ◎ 665-2335
19026 Krause Aug C ◎ 665-5602
19050 Adams Albert ◎ 665-0886
19081 Lindberg Hans V ◎ 665-4240
19139 Gavbey Clifford 665-1844
19202 No Return
19259 Hammond Wm C
19317 Harms Henry T ◎ 665-2255
19340 Reeder John H ◎ 665-6595
19410 De Sanno Clinton L ◎ 665-0541
19430 Gantenbein Henry C dairy farmer ◎ 665-5485
19431 Granger Bud 665-7938
19521 Jay Marion K 665-3487
19524 Gantenbein Robt H ◎ 665-8618
19526 Marleau Lawrence J 665-6844
19555 Multnomah Building Supply 665-8151
19575 Coast Douglas
19760 Wrede John B 665-1863
19910 Battaglia Frank S ◎ 665-7747

300

DORA ST SE (TROUTDALE)—FROM E COLUMBIA ST SOUTH, 1 EAST OF BUXTON RD

ZIP CODE 97060
141 Security Bank Of Oregon 665-9131
SE 2D ST INTERSECTS
201 Burnett Gary C dentist 665-3416
205 Snider Garland A 665-4035
225 Bunting James E ◎ 665-3756
235 Kenney Wayne ◎ 666-2352
243 Gasser Gerald K ◎ 665-5020
246 Glenn Lillian G Mrs ◎ 665-6935
SE 3D ST INTERSECTS
327 Aho Myrtle P Mrs 666-1030
349 Hayes Kenneth L ◎
SE 4TH ST INTERSECTS
SE 5TH ST INTERSECTS
531 Moore David L ◎ 665-8346
534 No Return
6TH ST INTERSECTS
7TH ST INTERSECTS
708 Rice Eulen ◎ 666-3343
710 Low Viola M Mrs 665-6279
746 Blackwell Marshall ◎ 665-1001

202

DOWSETT LA SE (GRESHAM)—A CONTINUATION OF SE ROBERTS AV EAST

ZIP CODE 97030
923 Henderson Marian Mrs ◎ 665-5398
925 Unruh Randy K ◎ 665-0567
JOHNSON CREEK CROSSES
935 Bellis Robt M ◎ 665-5524
1000 Hibbard Patrick ◎ 666-2092
1010 Flanagin Richd ◎ 665-3975
1015 Rinker Robt F ◎ 665-3415
1025 Lewis Dale G ◎ 665-8430

156

DUKE ST SE —FROM SE 110TH AV EAST 1 SOUTH OF SE FOSTER RD

ZIP CODE 97266
SE 110TH DR INTERSECTS
11002 Goff Donald L ◎

205

EARL AV NW (GRESHAM)—FROM NW 8TH ST NORTH, 1 WEST OF N MAIN AV

ZIP CODE 97030
817 Wright Austa B Mrs ◎ 665-2325
Carnes Linda K 665-4737
820 Beehler Lily Mrs ◎ 665-4862
Rear Rogiena Frank
833 Marschman Allen L ◎ 665-9271
835 Heard Shirley J Mrs 666-2266
840 Bishop Jane Mrs 665-3264
843 Vacant
860 Helyer Virginia M Mrs 665-6570
880 Hall James F 666-3482
900 Copeland Goldie Mrs 666-2209
920 Bridgmon Eileen 665-8273
940 Edgar Harold R 666-3680

205

EARL CT NW (GRESHAM)—FROM NW 20TH ST NORTH, 1 WEST OF N MAIN AV

ZIP CODE 97030
2000 Aspen Highland Apartments
Salisbury Stanley E 665-9203
2005 Flannery Dennis
2010 Sinclair Millard G 665-5658
2015 Decious Theo 665-0881
2020 Meng Danl 666-1347
2025 Burgess Steph E 666-3125
2030 Mc Mahon Gregory P ◎
2035 Rasmussen E W ◎ 665-6038
2140 Barton Manes ◎ 665-5360
2145 No Return

205

EASTMAN AV NW (GRESHAM)—FROM NW 10TH DR NORTH, 2 NORTHWEST OF NW DIVISION ST

ZIP CODE 97030
NW 13TH ST INTERSECTS
1319 E Cono Homes Co bldg contr 665-1093
E Cono Plumbing & Heating contr 665-1093
Frost Body Shop 665-3532
J & J Welding w0530 665-2515
1400 Olson Wm A 665-1879
1402 Myers Jane E Mrs 665-8832
1475 Reilly Chemical Co plastic
Hoffman Elsworth M
2029 Hood Machine Co 665-8154
W BURNSIDE RD INTERSECTS

200

ELLIOTT AV NE (GRESHAM)—FROM E POWELL BLVD NORTH, 3 WEST OF NE CLEVELAND AV

ZIP CODE 97030
NE 2D ST INTERSECTS
50 Senior Adult Center non profit organization 665-1814
210 No Return
NE 3D ST INTERSECTS
306 Palmquist Retta Mrs ◎ 665-2042
375 Elliott House Apartments 665-9817
1 Bohman June Mrs
2 Gentry Opal J Mrs 665-1276
3 Dorsey Margt 665-5596
4 Baker Gladys Mrs 666-2191
5 Joy Gordon C
6 Antonellie Mary S Mrs 666-2740
7 Kingsbury Mary E 665-4680
8 Brown Marshall F
9 Hauglum Ida Mrs 666-2823
10 Dolan Edw 665-9817
11 Ferrin Marguerite S 665-8039
12 Haidle Lydia K 666-1093
14 Lewis Harold K 666-1647
STREET CONTINUED
NE 4TH ST INTERSECTS
434 Wilson Irma H Mrs ◎ 665-5251
NE 5TH ST INTERSECTS

202

ELLIOTT AV SE (GRESHAM)—FROM DEAD END, 1 NORTH OF SE KENNY SOUTH, 4 WEST OF SE ROBERTS AV

ZIP CODE 97030
43 Paschall Glen L ◎ 665-3341
48 Irving Claude D ◎ 665-2485
107 Carmony O John 665-6621

PACIFIC ADJUSTERS Inc.
COLLECTIONS
PHONE 284-1525
4036 N.E. Sandy Boulevard **Portland**

298

SE KELLY ST—Contd
12506 Grantz Donald W ◎ 761-3354
12507 Mc Keown John F ◎ 761-2441
12533 Vacant
12534 Proudfoot Edw H ◎ 761-1622
12547 Redifer Lorraine Mrs ◎ 761-2794
12550 Clewell James E ◎ 761-3787
12560 Scott Walter L ◎ 761-0180
12600 Gilbert Claud A ◎ 761-1852
12605 Mitchell Perry E 761-7731
12641 Hanna John W ◎ 761-2312
12648 Fish Esther N Mrs ◎ 761-3811
12649 Yost Leslie A ◎ 761-3220

138
15202 Tucker Duane G ◎ 761-5338
15207 Popp Robt L ◎ 761-7871
15224 Klaue Randall B ◎ 761-6666
15225 Menashe Albert L ◎ 761-8801
15236 Crick R Joe 761-4515
15239 Richards James R ◎ 761-4678
SE 158TH ST INTERSECTS
15805 Powell E L
15806 Gray Fredrick J ◎ 761-8055
15807 Bruce Glenn W ◎ 761-8883
15812 Selby Jack E 761-9456
15822 Murray Geo H ◎ 761-8584
SE 160TH AV INTERSECTS
16013 Tadic David R 761-3804
16024 Schuetz Ernie L ◎ 761-7904
16036 Boarts Ruth
16037 Gerbich Geo N ◎ 761-8705
16050 Edenburn Glen D ◎ 761-4427
16102 Dorney Joe
16107 Ellis Ray ◎ 761-5921
16110 Conibear James S ◎ 761-8562
SE 162D AV INTERSECTS

SE 167TH AV INTERSECTS
16723 Swanson Robt 761-4278
16735 Ramsey Ronald R ◎ 761-6770
16740 Osbourn Ervin T ◎
16801 Morris Roland M ◎ 761-5092
16808 O'Toole Emmett J ◎ 761-9787
16815 Leonetti Wilfred ◎ 761-5244
16818 Pitassi Robt ◎ 761-5144
16828 Curran Thos H ◎ 761-6326
16838 Rove Olaf I ◎ 761-4975
SE 169TH AV INTERSECTS
16912 Gluth Loren E ◎ 761-4785
16930 Christensen Robt A ◎ 761-4507
16939 Hinchliff Forrest P ◎ 761-5075
SE 170TH AV INTERSECTS
17009 Smith Ronald L ◎ 761-6098
17010 Pugh Raymond B ◎ 761-8959
17027 Hamilton Robt L ◎ 761-6157
17030 Holmes John W ◎ 761-8487
17039 Mc Vitty Frank Jr ◎ 761-6943
17045 Stratton Lois Mrs ◎ 761-6156
17046 Pearson Neal A ◎ 761-7104
17104 Blunk Melvin W ◎ 761-6278
17107 Mead Charles W ◎ 761-4328
17114 Charley Jack T ◎ 761-4332
17121 Mc Guire Kingston L ◎ 761-6148
17126 Coon Wm L ◎ 761-6146
17136 Hetherington Webster ◎ 761-6188
17137 Remington J Fred ◎ 761-6129
17148 Anderson Gordon D ◎ 761-6893
SE 171ST DR INTERSECTS
17208 Dunford Douglas W ◎ 761-5575
17221 Moeller Neil J ◎ 761-7037
17222 Mc Lain Donald ◎ 761-6288

142
SE 177TH AV INTERSECTS
17712 Bolster Geo S ◎ 761-4726
17715 La Plante Clay F ◎ 761-2651
17727 Madill James R ◎ 761-4758
17733 Kuhnau Quentin C ◎ 761-4819
SE 178TH AV INTERSECTS
17807 Brehm Gerald R ◎ 761-6567
17810 No Return
17821 Vacant
17830 Terrett Shirley R ◎ 761-4749
Terrett Patricia
17833 Kelly Joseph F ◎ 761-6402
17901 Aden Vernon ◎
17915 Mainwood Robt W ◎ 761-6586
17924 Agner Harold K ◎ 761-4137
SE 180TH AV INTERSECTS
18002 Jones Richd M ◎
18014 Worthington Joseph H ◎ 761-6903
18023 Mc Horse James N ◎ 761-4796
18030 Lambert Ted R ◎ 761-2419
18037 Riewer Theo H ◎ 761-4902
18049 Kartevold Matilda E Mrs ◎ 665-8882
18050 Hopkins Floyd E ◎

300
KENDALL CT (TROUTDALE)—FROM 231 CHERRY PARK RD SOUTH

ZIP CODE 97060
1103 Churchill Earl B Rev 665-7072
1104 Sargent James D ◎ 665-6720
1105 Jackson Donald W ◎ 665-5076
1106 Anderson David ◎ 665-8213
1108 Borrough Ralph ◎ 665-8419
1109 Shilue Marilyn G Mrs ◎ 665-1977
1110 Shoff Fred ◎
1202 Murahashi Roy ◎ 665-9779
1203 Tacker Michl C ◎ 666-1479
1204 Lambert Joseph ◎ 665-1833
1205 Bray Charles C ◎ 665-8597
140 1207 Kaiser Frank T ◎ 665-0637

300
KENDALL ST SW (TROUTDALE)—FROM W COLUMBIA ST SOUTH, 1 WEST OF BUXTON RD

ZIP CODE 97060

300
KIBLING ST SE (TROUTDALE)—FROM E COLUMBIA ST SOUTH, 3 EAST OF BUXTON RD

ZIP CODE 97060
102 Troutdale City Hall 665-5572
104 City Mayor
City Councilmn
102 City Recorder
Town Marshal
138 Community Hall
Windy Whirlers orgs-social
2D ST INTERSECTS
246 No Return
SE 3D ST INTERSECTS
324 Davis Deane ◎
342 Schatz Geo J ◎ 665-5013
408 Wright Jim A ◎ 665-0288
423 Scurry Charles ◎ 665-9668
446 Hilbert Bernard C ◎ 665-8517

101
KILLINGSWORTH ST NE —FROM NE 42D AV EAST, 2 SOUTH OF NE SIMPSON ST

ZIP CODE 97218
4207 Brown's Hancock Service Station
284-9132

TP	Adjoining	Source
-	✓	R.L.Polk Co.

SE 5th Street 1970

202

5TH ST SE (GRESHAM)—FROM SE ROBERTS AV EAST, 3 SOUTH OF E POWELL BLVD

ZIP CODE 97030
435 Welty Charles P ◎ 665-3538
510 Lundquist Marvin C ◎ 666-2438
511 Curtis Robt C ◎
516 Hanna Wm L ◎ 665-8464
520 Doering Anthony F ◎ 665-6687
521 Herzog Albert L
522 Vacant
540 Karlen Ernest R ◎ 665-5421
541 Patton Lyle W ◎ 665-7236
610 Ott Alvin A ◎ 665-8384
617 Smith Alma R Mrs ◎ 665-5274
644 Hornbuck Lois J Mrs ◎
676 Creel Geo C ◎ 665-4426
SE LINDEN AV INTERSECTS
705 Lapp Ralph E ◎
711 Bies Philip N ◎ 665-4396
SE JUNIPER AV INTERSECTS
800 Dorsey Dennis P ◎ 665-8881
810 Wright Lewis H ◎ 665-7013
811 Weiss Walter W ◎ 666-1920
820 Fowler Donald C ◎ 665-8279

201

SE SPRUCE AV INTERSECTS
900 East Gresham Grade School 665-3995
SPRUCE AV INTERSECTS
931 Kinnear Duane E ◎ 665-6857
1 Bates Terry L 666-1138
2 Onchi Ray S 665-3321
935 Schaer Andrew E ◎ 665-7694
1065 Under Constn
1400 Dexter-Mc Carty School 665-0148

300

5TH ST SE (TROUTDALE)—FROM BUXTON RD EAST, 4 SOUTH OF COLUMBIA ST

ZIP CODE 97060
102 Moen Eileen R Mrs ◎ 665-2506
136 Green Thos 665-0566
148 Talbott Walter B ◎ 665-0920
DORA ST INTERSECTS
235 Jackson Walter C ◎ 665-4833
244 Turner Leroy 666-3531
245 Temple Thelda Mrs
HARLOW ST INTERSECTS
365 Barrett Charles 665-6982
KIBLING ST INTERSECTS
408 Reed Howard F
431 Otto Allan D ◎ 666-2272
432 No Return
433 Barrett Charles Z ◎ 665-6982

204

6TH CT NW (GRESHAM)—FROM A POINT EAST OF 685 NW TOWLE AV IN A SEMI-CIRCLE

ZIP CODE 97030
1440 Walker Wayne A ◎ 665-8381
1450 Richards Carl N ◎ 665-5440
1455 Feldman Mark L
Feldman Albert A ◎ 665-9315
1460 Hoffman Francis E 665-9227
1465 Schmidt Geo S 665-5015
1470 Newman Gerald B ◎
1475 Joyner Robt L ◎ 665-3397
1480 Hibbs Donald F ◎ 665-0600
1485 Klapstein Earl L Dr ◎ 665-0610
1520 Holevas Fred P ◎ 665-4014
1555 Dorsing Ray M ◎
1560 Herman Harold V ◎ 665-0319
1580 Shields Roger J ◎ 665-7845
1585 Steckmest Erik ◎ 665-2247

204

6TH DR NW (GRESHAM)—FROM DEAD END WEST, 1 EAST OF BELLA VISTA DR

ZIP CODE 97030
1780 Reed Ralph L ◎ 665-2621
1795 Weyermann Gary L ◎ 666-1286
1800 King Miles ◎ 665-3546
1825 Furniss A Victor ◎ 665-0642
1840 Rupp Frank M ◎ 665-7002
1855 Townsend Dorothy J Mrs ◎ 665-8993
1860 Seargeants Paul L ◎ 666-1285
1885 Meister Elsie M Mrs ◎ 665-8568
1890 Harmon Harold 666-2878
1915 Wallen James H ◎ 665-0576
1920 Wilson Mae Mrs ◎ 665-6979
1945 Sprenger Dan D ◎ 665-0871
1960 Dexter G Virgil Rev 665-2533
1975 Sharkey J Allan ◎ 665-9051
1980 Barnard Gary R ◎ 665-5975
2005 Yutze Otto G ◎
2010 Thomas Peter T ◎ 665-7390
2020 Shepherd Marjorie Mrs ◎ 665-7619
2025 Kennedy Raymond ◎

204

6TH PL NW (GRESHAM)—FROM NW CASCADE CT WEST 1 SOUTH OF NW 7TH PL

ZIP CODE 97030
2178 Shockley James L ◎ 665-8561
2185 Hessian John ◎ 666-3228
2198 Welo Vern R ◎ 665-6619

200

6TH ST NE (GRESHAM)—FROM NE HOOD AV EAST, 1 NORTH OF NE 5TH AV

ZIP CODE 97030
700 Acme Hardwood Floor Co (Whse)
890 Vacant
895 Bureau Of Public Works-Road Dept
665-5692

163

6TH ST NE (FAIRVIEW)—FROM THE 600 BLOCK OF DEPOT SOUTHEAST

ZIP CODE 97024
25 Hunter Joseph J ◎ 665-5393
DEPOT ST ENDS
30 Phipps Melvin O ◎ 666-1482
55 Roberts Julia M Mrs ◎ 665-4501
MAIN ST INTERSECTS
150 Klinger Howerd D
160 Davidson Edw I ◎ 665-8220
CEDAR ST INTERSECTS
225 Vacant
245 Achziger Terry 665-1848
265 No Return
275 Moore Forest O 665-0645
280 Henry Herman C 665-4008
285 Balton Wm E 666-1702
Links Ronald A 665-1707
HARRISON ST INTERSECTS
LINCOLN ST INTERSECTS
315 Olin Lanny R ◎
320 Callaway Orville ◎ 665-9728
340 Brinser John H ◎ 665-6241

.E. 4th STREET
PHONE 665-3283
GRESHAM
Auto - Mirrors - Storm Doors and Windows

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HANCOCK ST NE--CONTD
HANCOCK EAST APTS--CONTD

25 VACANT
26 STEAD MICHL 281-2168
27 GARRICK DAVE JR 253-3715
28 DAVENPORT GLORIA MRS 255-9419
29 SMITH DAVID E 255-4340
30 HARDY LARRY
31 THALHOFER PAUL A
32 MAHONEY JOHN A
33 VACANT
34 O'DONNELL J REID
35 ROBINSON LARRY
36 SKIDMORE GARY A
37 KUZMANICH JOHN
38 DOTY KENNETH E
39 COMBS RICHD
40 KOSS HERB D
41 ADRIAN LOIS
42 OSBORNE LAURIE 223-3261
43 MYERS JAMES C 255-3138
44 MANNING JAMES K
10345 PHILLIPS HENRY ● 255-9186
10401 TILLITSON ARTH L ● 253-3910
10503 BLAKE WM R ● 253-8629
---108TH AV INTERSECTS
10805 TOWNSEND DONALD D ● 253-7832
10810 VOLL RICHD W ● 254-3125
10815 SARTOR HAROLD ● 254-6973
10820 SMITH CURTIS B ●
10825 FULLER DAVID M ● 254-3243
10830 BRICK MERLE E ● 254-6630
10905 FAIST AGNES MRS ● 255-2037
10910 HAVEN GERALD E ● 253-9515
10915 BUSCH RUDOLPH T ● 252-5295
10920 VARNADO GLENN D ● 253-2982
10925 CONSER LOTUS ●
10930 SHANAHAN LLOYD W ● 253-8810
11005 KUFFLER ORVILLE G ● 254-8503
11010 MILLER RAYMOND H ● 252-0501
11015 CONSTANCE ROBT E 254-4826
11020 BAKER WINTHROP P ● 253-2879
11025 SMITH WINSTON A ● 254-0679
11030 SCHWENDER CLARENCE D ● 255-0543

131

---120TH AV INTERSECTS
11955 CERMACK ALLEN F ● 255-2245
12007 ZANK ERWIN A ● 252-4531
12019 BOURAS STEVE ● 252-0734
12025 MUNSINGER LYLE F ● 253-6955
12026 BLAKELY ROBT E ● 253-7638
12051 FLAIG ERVIN R ● 253-9993
12109 TOMPKINS NEALE S ●
12122 SCHILLING JOHN ● 252-6763
12125 GRAHAM HOMER D 252-4278

133

---ZIP CODE 97230
---126TH PL INTERSECTS
12634 BARTLEY CLAUDE R ●
12650 MOWLDS AUDRIN A ● 255-9449
12651 TORGERSON KENNETH L ● 252-6141
12915 MOWRY FRANK L ● 254-7723
12916 SLEGERS RICHD K ● 253-2310
12923 HODGES HARRY D ● 254-7500
12924 BURROWS JAMES ● 252-3827
12938 BENNETT RICHD N ● 255-2989
12939 MC GUIGAN JAMES C ● 253-3301
12946 DEER JAMES W ● 254-8134
---130TH AV INTERSECTS
13007 EASTWOOD ALBERT ● 254-0703
13008 SESAR ROBT R ● 253-2113
13021 ARTMAN BUD
13022 PINCHIN WM J 252-7048
13038 BANKER CARL G 252-3802
13041 VACANT
13108 TOVEY DONALD M ● 252-4784
13111 CURNELL ALBERT W ● 253-2894
13121 WALTZ WM O REV ● 254-8203
13122 HEYING JOHN L ● 254-3646
13135 VACANT

135

---134TH PL INTERSECTS
13455 SCHMIDT LESTER J ● 254-4600
---137TH AV INTERSECTS
13526 PIERCY HAROLD E 252-7375
13600 SCHRAG ALWYN J ● 254-4587
13601 ESTES MARION L MRS ● 253-5997
13625 FLOOD MOLLY G ● 253-5883
13630 GLAZEBROOK THOS B ● 252-7866
---144TH AV INTERSECTS
14414 CRAMER WM A BLDG CONTR ● 255-1353
14415 COLE MURYL R 255-2623
14433 ARRIGOTTI MARTIN L 253-5239
14504 HUES CLARENCE E ● 253-9276
14520 MALUEG NICK J ● 254-6370
14525 REARDON JANICE MRS ● 252-3783
14537 SUNDBERG EMERY N ● 252-2673
14540 ALBERTSON ERVING E ● 253-6202
14607 SIVERTSON WALTER J ● 252-4101
14608 MC GRAW JAMES E ● 254-2547
14624 FELDER WAYNE J ● 254-8502
14625 O'BYRNE BERNARD J ● 252-1974
14640 EAST MULTNOMAH COUNTY GARBAGE COLLECTION 253-2919
REICH HENRY ● 252-3778
14641 SCHMITZ JOSEPH M 253-2592
14705 KANSKY GEO W ● 252-4346
14714 WILSON MATT D ● 253-4377
14719 MC MANUS WORTH E ● 254-9639

125

---ENGQUIST WY INTERSECTS
17247 PERSHALL FRED ● 254-4040

300

HARLOW ST SE (TROUTDALE)-FROM E COLUMBIA SOUTH, 2 EAST OF BUXTON RD

---ZIP CODE 97060
100 BISSINGER & CO HIDE WOOL TALLOW WHSE 665-9136
115 R E A EXPRESS 665-6348
UNION PACIFIC SYSTEM DEPOT 665-6348
116 MOLLER'S NURSERY (WHSE)
SNIDER FARMS INC (WHSE)
126 IMTHURN LORA A MRS ● 665-2967
JONES ALEX M
JONES FRANK S 665-4572
138 ALBIN RUSSELL S ● 665-6665
---SE 2D ST INTERSECTS
207 FERCH WALTER W 665-3351
208 THORNTON DOUGLAS S 665-0798
234 LATHAN CURTIS A
235 WILKERSON BILLY D
236 VACANT
243 KERN MICHL E 665-9621
244 BUNTING ARTH W ● 665-6382
---SE 3D ST INTERSECTS
310 TROUTDALE FULL GOSPEL CHURCH 665-0581
PARKS JOHN H REV 665-0581
323 ERION RUTH E MRS 665-2705
---SE 4TH ST INTERSECTS
411 MC MANUS DEAN ● 665-4917
422 ZIMMERMAN D H ● 665-7996
432 VACANT
533 FRANKS VERNON G 665-5508
---6TH ST INTERSECTS
603 SMITH EDW ● 665-3346
648 TROUTDALE GRADE SCHOOL 665-9161

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5200 N Front Ave Portlar
PHONE 228-76

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TP	Adjoining	Source
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HARLOW ST SE 1967

HARLOW ST SE (T)--CONTD
LIONS INTERNATIONAL TROUTDALE CLUB

168

HARNEY DR SE -FROM SE 45TH AV EAST, 1 SOUTH OF SE UMATILLA DR

---ZIP CODE 97206
4515 THOMPSON MAC F • 775-8437
4543 KRAMER ORIN W • 771-9536
4600 PRECISION CASTPARTS CORP METAL DIE CASTING 775-4391
4807 GLANY SAM
4825 VACANT
4840 VACANT
4903 FERRAR JUNE 775-0154
4905 HOLDEN A W • 774-2526
PLANER SALES & SERVICE WOOD WORKING MACHS 774-2526
4917 FELIX STEPHEN S • 771-8710
4942 VACANT
4943 RITTHALER JACOB H • 771-9953
5011 RANKIN EUG E •
5027 NO RETURN
5100 WHITE STAG MFG (ADMN BLDG)
5111 LEUTHOLD ANNA MRS • 771-4303
---52D AV INTERSECTS
5200 WHITE STAG MFG CLO MFRS 777-1711
5241 VACANT
5255 BRITZIUS HARRY L •
5305 VACANT
5308 MARTIN MATHIAS J • 771-0170
5313 TORELLE JOSEPH • 771-7096
5323 HUBERT JERALD 775-2998
5410 HEINKE GARY E • 774-8970
5420 OE DELL LEONARD R • 775-3654
5430 GRATH CARL H • 777-1602
5445 BORGENCARD CHRIS • 771-2283
---55TH AV INTERSECTS
---MALDEN DR INTERSECTS
5629 HERMLE STEVE • 774-2260
5655 GRANT CHARLES E • 775-2159
---57TH AV INTERSECTS
5720 STEVENS L D • 771-6473
---58TH AV INTERSECTS
5849 HODGE MATTHEW C • 771-9202
5872 CREST APARTMENTS
A KISH ETTA MRS 777-3439
B BURSE LARRY •
C MC CUEN RICHD
D GARRETT R P 771-0152
E KING LYLE O MRS 774-7184
F GLAUS HARRY
G LARSON NORMAN L 775-3278
H FULLAM MICHL B 771-6347
5909 GROSS ARNOLD C • 774-0091

170

HARNEY ST SE -FROM SE FLAVEL DR EAST, 5 SOUTH OF MALDEN DR

---ZIP CODE 97206
---SE 60TH AV INTERSECTS
5905 GUY LESLIE R •
5951 FRAY ARLENE V MRS
6009 SCHIMSCHOK EMMA MRS 774-2369
6031 ISAACSON RAY C 777-3122
6036 MC CLOUD PENEE •
6045 FLENLEY RUTH MRS •
6049 WILLIAMS HAZEL MRS •
6108 HUML EDW E • 774-4909
6109 LETCHER RICHD A •
6121 WILSON FLOYD J • 771-8272
6135 THRASHER R A
6136 VACANT
6150 STANFIELD LOUIS
6154 MINKLER DAVID D

172

---62D AV INTERSECTS
6233 HARTWELL GLENN E •
6238 DITTLER EDW G • 774-5279
---63D AV INTERSECTS
6310 NO RETURN
6311 CULVER BARBARA J MRS 774-4829
---64TH AV INTERSECTS
---65TH AV INTERSECTS
6508 BASDEN THOS V •
6535 BOUCHER KEITH B 777-1383
---66TH AV INTERSECTS
6602 PETRICK DENNIS W 774-6873
6625 MC FARLAND ERNEST M 775-2612
6626 CARR JAMES H • 774-5594
---66TH AV INTERSECTS
---68TH AV INTERSECTS
6805 TUCKER JAMES A • 777-1209
6815 LESTER GERTRUDE MRS
---69TH AV INTERSECTS
6905 HILBERT GERALD L 775-4624
6965 VACANT
---70TH AV INTERSECTS
7010 FEE ORRIN P •
7020 KALETA ALEX J • 777-2446
7030 KAISER HAROLD D 771-1945
7044 AUNE JERRY W 774-3516
7048 WAGAMAN ERNEST
7050 SPARKS O JOSEPH
7066 MC CORD RALPH P 775-3623
7102 KITCHEN WM

174

---72D AV INTERSECTS
7215 HALL THELMA MRS •
7225 LOUGHRY OWEN •
7226 BARTON JAMES N 775-5077
7227 WOLFER MERLE E
7228 ADAIR EDW E •
7305 VACANT
7306 MEYER DAVID H
7315 SOMERS CLYDE H • 774-6791
7318 VACANT
7326 RICKMAN ALICE MRS
7330 JASMAN RUDOLPH 775-8041
---74TH AV INTERSECTS
7400 SANCHEZ RICHD A • 775-6505
7402 BRADEN HAROLD D •
7425 WALLSTRUM RAYMOND E • 777-3710
---75TH AV INTERSECTS
7502 MC INTOSH GORDON • 771-2871
7504 JOHNSON GORDON L •
7505 THURMAN JAMES W •
7522 HOPKINS OLIVE MRS • 771-8513
---SE 75TH PL INTERSECTS
7536 FOSTER FAY F
7550 HAMPTON ROSA MRS • 775-3968
7575 COCKERHAM JOHN J • 775-0675
7606 BAXTER RICHD F PNTR • 771-9618
7607 GARCIA RUTH MRS
7619 ATKINSON LARRY W • 777-1971
7626 SMITH NELLIE MRS •
---76TH PL INTERSTCTS
7640 TATE FLOYD
7646 SCHADE MINNA M MRS • 777-3070
7651 BUCK MARVIN L •
---77TH AV INTERSECTS
7701 TURNER JAMES F 775-6263
7732 BRADSHAW GEO E •
---78TH AV INTERSESCTS
7809 LANGTON WAYNE W • 775-5146
7812 HAWKINS MACHINERY 771-2206
HAWKINS WENDELL W • 771-2206
7815 GARBER GARY R 775-2472
REAR JOHNSON WES R
7837 MILLER ERNEST D • 771-1621
7912 HALL CLIFFORD JR
7914 COMSTOCK LLOYD 775-1660
7915 VACANT

176

---ZIP CODE 97266
8250 TURGESEN KJERSTAIN MRS • 771-5081

TP	Adjoining	Source
-	✓	R.L.Polk Co.

4TH ST SE 1967

203

4TH ST NW (GRESHAM)-FROM NW NORMAN AV WEST, 1 NORTH OF NW 1ST

---ZIP CODE 97030
---BLAINE LA INTERSECTS
715 BARDEN BLANCHE MRS ● 665-3525
880 VACANT
915 FANSHIER MARVIN G ● 665-0910
965 LIVERMORE LEROY C ● 665-3054
995 VACANT
1000 HEIMAN WALTER C ● 665-5686
---OVERLOOK AV INTERSECTS
1155 GROVER SAML C ● 665-3490
1180 SULLIVAN THOS L ● 665-7988
1215 BRENNAN THOS W ● 665-0324

204

---WALLULA AV INTERSECTS
1314 KISSINGER LAWRENCE ● 665-0974
1315 JOHNSON RUDOLPH B REV ● 665-4571
1325 LECHNER E J 665-3628
1334 WIESINGER CARL F ● 665-5958
1335 THOM WM R 665-7190
1345 COLLINS MARVIN A ● 665-4268
1430 LLOYD STEWART J ● 665-8807
1445 ALEXANDER RICHD L ● 665-4579
1460 BETTENCOURT JOHN E ● 665-4781
1490 PETERSON THOS T ● 665-4780
1495 OLSON MADELINE MRS ●
---TOWLE AV INTERSECTS
1505 BROWN RALPH ● 665-9345
1535 DIDIER BERT R ● 665-9679
1605 CROSBY DAVID E ● 665-0311
---ANGELINE AV INTERSECTS
1645 ARMSTRONG GEO W ● 665-9369
1665 BUYEA GERALD G ● 665-9807

1660 ASKELSON NORMAN W ● 665-7825
1725 ATTERBURY LOUIE E ● 665-9257

300

4TH ST SE (TROUTDALE)-FROM BUXTON RD EAST, 3 SOUTH OF COLUMBIA

---ZIP CODE 97060
---DORA ST INTERSECTS
105 SOWELL DELORES ● 665-2346
206 PARKER ARNOLD L ● 665-3880
247 EDGLEY VERA V MRS ● 665-9781

---HARLOW ST INTERSECTS
346 O'NEAL JOHN L ● 665-5471
---KIBLING ST INTERSECTS
434 BOMAN JAMES A ● 665-8679
435 VACANT
---SANDY ST INTERSECTS

300

4TH ST SW (TROUTDALE)-FROM BUXTON RD WEST, 3 SOUTH OF COLUMBIA

---ZIP CODE 97060
107 PARSONS DALE ● 665-3208

133 LUCAS JOSEPH C ● 665-5574
204 BOSWELL WAYNE D ●
206 BORCHERS CLAIRE W ● 665-4975
2225 ESPENEL DONALD L ● 665-2275
242 ESPENEL WAYNE ● 665-4406
300 TROUTDALE ROD & GUN CLUB

200

5TH ST NE (GRESHAM)-FROM N MAIN AV EAST, 5 NORTH OF E POWELL BLVD

---ZIP CODE 97030
27 VACANT
28 BOADWINE A G 665-6837
REACE GEO
---ROBERTS AV INTERSECTS
---HEINEY AV INTERSECTS
131 KIDDER LEWIS L ● 665-2241
150 LA LONDE LENA E MRS ● 665-4610
206 POWELL SIBYL REALTY 665-4312
---HOOD AV INTERSECTS
---BEECH AV INTERSECTS
410 HEWLETT JAMES C ● 665-6419
430 WEISENHAUS CLIFFORD E ● 665-5310
480 PRICE JOE ●
485 AKINS A LEAH MRS ● 665-5331
WEAN ELEANOR C MRS 665-2728
530 MCTT RONALD L 665-7127
550 TURNER HOWARD
---ELLIOTT AV INTERSECTS
615 LAUDERBACK THOS H ● 665-2029
640 RUEGG INEZ M MRS ● 665-7488
679 ARNOLD ABNER D 665-2018
---LINDEN AV INTERSECTS
725 NEWMAN DONALD K ● 665-6538
755 ABELN MARVIN E ● 665-9840
775 HUBBARD JOHN D ●
815 BETTENCOURT ENOS L ● 665-5938

163

5TH ST NE (FAIRVIEW)-FROM THE 500 BLOCK OF DEPOT SOUTHEAST

203

5TH ST NW (GRESHAM)-FROM N MAIN AV WEST, 5 NORTH OF W POWELL BLVD

---ZIP CODE 97030
50 SAFEWAY STORES INC GRO
---MILLER AV INTERSECTS
---NORMAN AV INTERSECTS
609 MC COY NONA MRS ●
645 JOHNSON JOHN A ● 665-7107
650 WAITE RICHD A ● 665-7082
655 ONCHI JOE M ● 665-7449
670 HERMAN EMILY A ● 665-7998
715 SCHREIBER ARTH C ● 665-3023
750 LADER RUDOLF ● 665-7437
900 HELDING JOHN F ● 665-8865

204

---TOWLE AV INTERSECTS
1500 JOHNS MARVIN R ● 665-9589
1505 LEE EDW B ● 665-0442
1520 LATHAM WM E ● 665-0418
1525 RICHARDSON FRANK R ●
1540 THOMPSON JAMES G ● 665-6527
1545 SCHULTZ RICHD A ● 665-2411
1560 WERNICKE WOLFGANG ● 665-7890
1565 BALL RONALD D ● 665-3041
---ANGELINE AV INTERSECTS
1605 WALKER J DAVIS ● 665-7151
---BELLA VISTA DR INTERSECTS
1610 WRIGHT JOE E ● 665-7933
1845 JORDAN GERALD D 665-4488
1865 VACANT
1925 VACANT (1925-1965)

11702 NE HALSEY PHONE 254-7341 or 254-3454 PORTLAND

at publisher's price same day order is received

Directory Publishers Offices in Principal Cities

5TH ST SE 1967

5TH ST NW (G)--CONTD
2005 VACANT
2010 BOICE M V ●
2025 VACANT (2025-2035)
2309 WELSH BENNETT M ● 665-3452
2400 HANKS STRAWBERRY FARM
665-5650
HENRY H G ● 665-5650
---RIVERVIEW PL INTERSECTS
---BIRDSDALE AV INTERSECTS

300
5TH ST SE (TROUTDALE)-FROM BUXTON RD EAST, 4 SOUTH OF COLUMBIA

---ZIP CODE 97060
102 MOEN EILEEN R MRS ● 665-2506
136 GREEN THOS 665-0566
148 TALBOTT WALTER B ● 665-0920
---DORA ST INTERSECTS
235 JACKSON WALTER C ● 665-4833
244 TURNER LEROY 665-2090
245 TEMPLE THELDA MRS
---HARLOW ST INTERSECTS
---KIBLING ST INTERSECTS
408 VACANT
431 OTTO ALLAN D ● 665-5172
433 BARRETT CHARLES Z ● 665-6982

204
6TH CT NW (GRESHAM)-FROM A POINT EAST OF 685 NW TOWLE AV WEST

1465 VACANT
1470 VACANT
1475 JOYNER ROBT L ● 665-3397
1480 SCHENK GORDON H ● 665-4253
1485 KLAPSTEIN EARL L ● 665-0610
1520 BARBOUR RICHD L ● 665-9359
1555 CORDELL ORVIN W ● 665-7864
1560 HAGEN JACK R ● 665-0918
1580 LA RUE ISABEL C MRS ●
665-6518
1585 FISH DAVID W ● 665-6762

204
6TH DR NW (GRESHAM)-FROM DEAD END WEST, 1 EAST OF BELLA VISTA DR

---ZIP CODE 97030
1780 REED RALPH L ● 665-2621
1795 MC KEEN CHARLES H ● 665-4309
1800 CUYLER KENNETH C ● 665-2283
1825 FURNISS A VICTOR ● 665-0642
1840 RUPP FRANK M ● 665-7002
1860 GOMOLL DANL G ● 665-3647
1855 ECKMAN WOODROW ● 665-8795
1885 MEISTER ELSIE M ● 665-8568
1890 BARTELS SIDNEY A 665-8207
1920 WILSON W MILES ●
1915 WALLEN JAMES H ● 665-0576
1945 SPRENGER DAN D ● 665-0871
1975 SHARKEY J ALLAN ● 665-9051
1980 BARNARD GARY R ● 665-5975
2005 YUTZE OTTO G ● 665-9507
2010 THOMAS PETER T ● 665-7390
2025 BRYAN GAIL H ● 665-9493
---RIVERVIEW PL INTERSECTS
2020 SHEPHERD LOREN V ● 665-7619

204
6TH PL NW (GRESHAM)-FROM NW CASCADE CT WEST, 1 NORTH OF NW 7TH PL

---ZIP CODE 97030
2178 SHOCKLEY JAMES L ● 665-8561
2185 FELBICK WALTER ● 665-2405
2198 JACOBSON MARION R MRS ●
665-7149

200
6TH ST NE (GRESHAM)-FROM NE HOOD AV EAST, 1 NORTH OF NE 5TH

---ZIP CODE 97030
890 VACANT
895 MULTNOMAH COUNTY RD DEPT
665-5692

163
6TH ST NE (FAIRVIEW)-FROM THE 600 BLOCK OF DEPOT SOUTHEAST

---ZIP CODE 97024
25 HUNTER J JOSEPH ● 665-5393
---DEPOT ST ENDS
30 HARDER CHARLES A ● 665-4944
55 ROBERTS WARNER B ● 665-4501
---MAIN ST INTERSECTS
150 THEBERT FRANCES 665-3709
160 DAVIDSON EDW I ● 665-8220
---CEDAR ST INTERSECTS
280 HENRY HERMAN C 665-4008
265 CLIFT ROBT M 665-8204
267 APARTMENTS
GRIFFIN JAMES B
3 JOHNSON VICTOR 655-4977
5 MC GOWAN FRED G
---HARRISON ST INTERSECTS
---LINCOLN ST INTERSECTS
315 OLIN LARRY R ●
320 CALLAWAY ORVILLE ● 665-9728
340 BRINSER JOHN H ● 665-6241
345 FIELDS HOMER
400 RALPH'S TOWING AUTO TOWING
665-8094
EDWARDS J RALPH
---HALSEY ST INTERSECTS

205
6TH ST NW (GRESHAM)-FROM NW NORMAN AV WEST, 3 NORTH OF NW 1ST

---ZIP CODE 97030
790 WILLIAMS JOHN C JR ● 655-3862
840 MISHIMA HENRY ● 665-3475
---5TH ST INTERSECTS
875 FROESE OSCAR T ● 655-9719
890 MORGAN HECTOR ● 665-7930
1095 GEE JOHN R ● 664-2934
---OVERLOOK AV INTERSECTS
1200 SAVAGE CHARLES H ● 665-6493

300
6TH ST SE (TROUTDALE)-FROM BUXTON RD EAST, 5 SOUTH OF COLUMBIA

---ZIP CODE 97060
131 BARCLAY H F ● 665-3703
---DORA ST INTERSECTS
134 WILSON LOUIS A ● 665-0363

204
7TH CT NW (GRESHAM)-FROM NW BIRDSDALE AV EAST, 3 NORTH OF W POWELL BLVD

---ZIP CODE 97030
1555 DAVISON ROBT L ● 665-3457
1560 CREMER FERDINAND ● 665-5921
1580 FISHER WM J ● 665-5526
1585 GARNER GENE A ● 665-6371

204
7TH PL NW (GRESHAM)-FROM 720 BELLA VISTA DR WEST, 1 NORTH OF NW 6TH DR

---ZIP CODE 97030

TP	Adjoining	Source
-	✓	R.L.Polk Co.

7TH ST SE 1967

7TH PL NW (G)--CONTD
1745 WEBERG CHARLES A ● 665-6643
1775 RIEHL ALBERT D ● 665-7363
1800 VACANT
1815 FAATZ LAWRENCE B ● 665-2428
1820 CARVEL CHUCK E 665-2769
1840 FRISCO HARVEY H ● 665-3278
1845 SPARKS MAX E 665-0956
1875 CHANEY JOHN W ● 665-2491
1880 CARPENTER GEO L ● 665-3441
1910 NO RETURN
1915 KIRKWOOD ROSS R ● 665-8010
1945 SIMSHAW ROGER M ●
1940 STRENG FRANK H ● 665-9752
1970 SPOONER DAVID H 665-0441
1975 MILLS BERT F ● 665-8443
2000 KNOTTS GUY D ● 665-8652
2005 SEALE LUTHER W ● 665-6539
2030 WELLIVER GARY ● 665-9695
2015 MARTIN JAMES E ● 665-8453
2035 HOFFMAN GENE F ● 665-7255
2055 SWARTHOUT NEIL F JR ● 665-6963
2060 THOMAS WM J ● 665-8817
---CASCADE CT INTERSECTS
---BIRDSDALE AV INTERSECTS
2220 THOMPSON PRAXY A MRS 665-3915
2230 CULLEY SHARRON J
2240 CARPENTER E E ● 665-2648
2275 VACANT
2260 WARD ROBT E ● 665-7324
2320 RITSCHARD ROBT R ● 665-9744
2325 RABE MAYNARD R ● 665-1217
2340 HERGERT THEO ● 665-7895
2345 VACANT
2380 BAINBRIDGE HOWARD ● 665-5602

200
7TH ST NE (GRESHAM)-FROM NE HOOD AV EAST, 2 NORTH OF NE 5TH

---ZIP CODE 97030
333 ACME FEED MILLS INC 665-2019
355 ACME FEED MILLS INC (WHSE)

163
7TH ST NE (FAIRVIEW)-FROM THE 700 BLOCK OF DEPOT SOUTHEAST

---ZIP CODE 97024
---MAIN ST INTERSECTS
700 HAUSTON JAMES D ● 665-3304
2360 WEISSER LEE ● 665-5725

300
7TH ST SE (TROUTDALE)-FROM BUXTON RD EAST, 6 SOUTH OF COLUMBIA

---ZIP CODE 97060
145 LUNDAY LINDEN ● 665-8660
146 ALEXANDER LLOYD O ● 665-3402
---DORA ST INTERSECTS
207 LEWIS WM H ● 665-4753
221 VAN SLYKE BEVERLY MRS 665-9271
242 MITCHELL MELVILLE L ● 665-3361

203
7TH ST SW (GRESHAM)-FROM 644 SW WALTERS RD WEST

---ZIP CODE 97030
350 SORENSEN VERNAL T ● 665-9548

300
7TH ST SW (TROUTDALE)-FROM BUXTON RD WEST, 6 SOUTH OF COLUMBIA

246 YOUMANS GEO D
300 TROXEL EDW T ● 665-3968
301 CITY RESERVOIR
302 WARD H L 665-3077
304 LEACH CHARLES F 665-8246
304A MUSSELMAN HOWARD E
306 RUTH FRNEST L ● 665-5302

200
8TH ST NE (GRESHAM)-FROM NE HOOD AV EAST, 3 NORTH OF NE 5TH

---ZIP CODE 97030
335 ROBERTS STEVE A ● 665-4048
345 LOVERN IRENE N MRS
357 KOSHINSKY ANTON ● 665-0275
---BEECH AV INTERSECTS
575 GRESHAM COOPERATIVE HDW 665-9151
575½ AMERINE LLOYD
603 UNITED FLAV-R-PAC GROWERS INC (BR) CANNERS 665-3191
655 COOKHOUSE CAFE THE
665 CAHILL PHILLIP L CONCRETE CONTR 665-9451
---LINDEN AV INTERSECTS
835 MOUNT HOOD WOODWORKING CO CABTMKR 665-5114

201
---CLEVELAND AV INTERSECTS

205
8TH ST NW (GRESHAM)-FROM 810 N MAIN AV WEST, 1 SOUTH OF NW DIVISION

---ZIP CODE 97030
23 MC CANNON CLARENCE E 655-3602
25 WIHLON HORACE W ● 665-6130
---EARL ST BEGINS
---MIGONETTE AV INTERSECTS
207 HANES OLIVE MRS ● 665-6767
---VICTORIA AV INTERSECTS
307 JACOBS ALICE F
319 MAGEE ANDY S ● 665-2614
615 WULFF FRANCES MRS 665-2515
620 GRESHAM METHODIST CHURCH 665-6111
625 WISE JACK ● 665-4522

645 DUNSTAN MARVIN L ● 665-8091
685 MARKS N FRED ●
---DAY DR INTERSECTS
715 KNOEBBER JOHN E ● 665-0756
745 SHINN WAYNE O ●
760 CORSEUT ROBT D ●
765 VACANT
835 GRASS ROBT L ● 665-6380
850 LEATHERS CHARLES C ●
855 BARTHOLOMEW FRANK ● 665-3527
865 OSTROM OLGA A MRS ● 665-2449
875 HAMNER MARIE B MRS ● 655-4639
880 ROACH IDA M MRS ●
900 ABTS GERALD F ● 665-4318
905 JOHNSON ORVILLE L ● 665-2545
925 WILLIAMS THEO E ● 665-0570
---OVERLOOK AV INTERSECTS
1007 HOWEY EARL A ●
1033 TOYNBEE CHARLES E ● 665-0887
1080 TOMPKINS MERLE L ● 665-5338
1100 SHEPPERD GEO JR ● 665-2419
1108 GULLIKSON CLAIR C ● 665-4326
1115 FRAZEE EILEEN MRS ● 665-3031

300
8TH ST SE (TROUTDALE)-FROM BUXTON RD EAST, 7 SOUTH OF COLUMBIA

---ZIP CODE 97060
---DORA ST INTERSECTS
226 MURRAY BETTY J MRS
---HARLOW ST INTERSECTS

BUXTON RD 1967

BUSH ST SE--CONTD
14028 TRAPP WALTER A ● 761-1167
14029 BRETT KAY MRS 761-2320
14045 SANCHEZ JOSEPH R 761-2489
14110 VAUGHN DON P 761-0131
14111 PIERCE NANCY MRS 761-1160
14115 SMITH BILL G ● 761-3947
14120 ANDRE ROY L ● 761-1607
14120A HUTCHINSON JAMES W 761-0596
14147 SPRINKEL JACK 761-1130
14201 MAUK DELMER S ● 761-3972
14202 TIMBERMAN WILLARD J ● 761-0654
14216 DAIBER DONALD J ● 761-3949
14219 FURMAN DALE G ● 761-0245
14230 BOOMHOWER WAYNE K ● 761-0745
14235 HARALAMPUS ESTHER I MRS ● 761-2456
14244 MC MURRY ADA MRS ●
14303 JORDAN JOHN M ●
14314 PALLVINY CAROLE F MRS ● 761-1745
14323 DEVLIN LORRAINE MRS 761-2211
14334 CRENSHAW MARVIN L ● 253-6224
14343 MACKIE WILFORD ●
14350 CHASE WALDRON E ● 254-2830
14361 VACANT
14400 KLANN CLAIRE MRS 253-1333
14410 EDDLEMAN WILBUR M 252-5328
---SE 144TH AV INTERSECTS
14508 CHAMBERLAIN GLENN R ● 254-2790
14509 THOMPSON RONALD L ● 253-3734
14525 POLEN DENNIS M ● 252-8924
14530 GOWEN WOODROW W ● 254-0292
14545 FUNK MARTHA ●
14556 HALL MARLIN D ●
14619 PERNAR ANTHONY V ● 254-9921
14620 SARGEANT RONALD W ●
14635 SIRON HARTZEL P ● 253-9304
14636 HAYNES LONNIE G ● 252-9925
14704 HOPPER JAMES E 255-3830
14707 HANSON HAROLD E 252-7554
14723 LIESKE HENRY L REV 253-4540
14724 PERALA WM A ● 254-7763
14744 WHITFORD DONALD R 254-5770
14747 FRENCH CLIFFORD A ● 252-2280
---SE 148TH AV INTERSECTS
14813 WILSON RODNEY A ● 252-6589
14806 FOSTER DELMAR R ● 253-1628
14819 WRIGHT TED L ● 255-4580
---SE 149TH AV INTERSECTS
14820 FOSTER JOHN E ● 253-0676
15421 BUDWORTH ALVIN E ●
15426 DIXON JAMES K ● 252-7371
---SE 154TH AV INTERSECTS
15435 WERTH WM O ● 255-9283
15440 FUNRUE DONALD K ● 255-9258
15452 KINZER VON P ● 252-3118
15453 KOONTZ ROGER D ● 253-3987

300

BUXTON RD (TROUTDALE)-FROM COLUMBIA SOUTH, 1 EAST OF SW KENDALL

---ZIP CODE 97060
127 VACANT
146 BONDESSON GRACE H MRS ●
---2D ST BEGINS
223 TROUTDALE PO 665-3898
224 PARSONS OLIVE C MRS ● 665-3792
---SE 3D ST BEGINS
---4TH ST BEGINS
408 PARKE CLARA MRS ● 665-7742
425 MATCHES A H ● 665-2964
---5TH ST BEGINS
526 VAN OVER CHARLES M
528 HAMS CHARLES
536 DOOLEY JANET S MRS
538 VACANT
---6TH ST BEGINS
608 DIX LUELLA S MRS ● 665-8828
619 STOECKEL ALF P ●
623 NESBIT WM J ● 665-0423
641 EVANS JACK S ● 665-2200
---SE 7TH ST BEGINS
704 LAMPERT DON J ● 665-8792
746 KINSLOW RALPH L ●
747 REDDEN CARL N ● 665-6461
---SW MARTINE CT BEGINS
803 BRITTON SID A ● 665-8347
828 LANDIS NORMAN R ●
835 TROUTDALE BAPTIST CHURCH (SUNDAY SCHOOL ROOMS)
921 TROUTDALE BAPTIST CHURCH 665-2205
1001 PETERSON ETHEL MRS ● 665-3806
1047 PARTIN JAMES A REV 665-2205

166

BYBEE BLVD SE -FROM SE 48TH AV EAST, 1 NORTH OF SE RURAL

---ZIP CODE 97206
4806 VACANT
4816 PYLES LORNA J 774-4185
4840 NAYLOR HERBERT A ● 774-2541
4848 FALOWER FRANK L ●
4851 VACANT
4900 ALWIN RUTH D MRS ● 771-3501
4911 ROWE ROBT T ●
4919 JARDEE JESSE A ● 774-0859
4924 BRUNING WM J 771-2945
4927 BEACH ALBERT J ● 775-6516
4934 HAGEN SWEN ● 774-2591
---50TH AV INTERSECTS
4943 ROBBINS WM C ● 771-7826
4951 ROSENGREEN CARL ● 775-3954
4963 DUSTY'S JAN SERV 775-5220
KNAPP WESLEY L ● 775-5220
---SE 50TH AV INTERSECTS
5004 RHOADS RHEA E MRS ●
5014 WESTPHAL LOREN J ● 774-7737
5024 BASIL WARREN ●
5035 EMICK MAE I MRS ● 774-8146
5036 THACKER VIRGIL M 777-1017
5044 BURRI SAM W ● 771-5571
5047 SWETLAND GEORGIA H MRS ● 774-5212
5059 MOLES LEO A ● 774-5266
5107 APARTMENTS
1 MILLER DAVID
2 RICHARDSON CAROL
3 ARASMITH CLARK D
4 DAVIDSON WM E
5120 HENDRICKSON JOHN A ● 771-0442
5128 BENNETT SUSAN ● 774-1529
5141 APARTMENTS
A ARMSTRONG LARRY 775-9841
B KNEPPER ALLYN 775-7774
C FLOWERDEW LESTER
D SMITH MARGT D MRS 775-5715

164

---52D AV INTERSECTS
5215 BROWN HAZEL R MRS
5230 COWGER WM M
5231 BALOGH ARTHUR J ● 774-1724
5232 GRIGGS BRUCE W ●
5243 KILTHAU R C 775-5184
5251 DRISKELL THOS R ●
5254 BUCHANAN BERNICE MRS ● 771-2685
REAR CAMERON WM A 775-0263
5303 STANFILL NANCY M MRS ● 771-0762
5304 WHITAKER JOHN C ● 771-0829
5314 NEWTON ALVIN C ●

TP	Adjoining	Source
-	✓	R.L.Polk Co.

DORA ST SE 1967

DORA ST SE (T)--CONTD
141 SECURITY BANK OF OREGON
665-9131
---SE 2D ST INTERSECTS
201 BURNETT GARY C DENTIST
665-3416
225 BUNTING JAMES E ● 665-3756
234 KEARNS JOSEPH W ●
235 RODGER LEO L ● 665-7676
243 GASSER GERALD K ● 665-5020
246 GLENN LILLIAN G MRS ●
665-6935
---SE 3D ST INTERSECTS
327 STARR JAMES 665-5139
349 HAYES KENNETH L ●
---SE 4TH ST INTERSECTS
---SE 5TH ST INTERSECTS
520 JACKSON MAYNARD D ● 665-9470
531 MOORE DAVID L ● 665-8346
---6TH ST INTERSECTS
626 VACANT
---7TH ST INTERSECTS
708 LOW AUSTIN J ● 665-6279
710 GENNANS BEATRICE V MRS
746 HAZELETT HUBERT H ● 665-3205

202

DOWSETT LA SE (GRESHAM)-A
CONTINUATION OF SE ROBERTS AV
EAST

---ZIP CODE 97030
923 HENDERSON MARIAN MRS ●
665-5398
925 NINRUH RANDY K ● 665-0567
---JOHNSON CREEK CROSSES
935 BELLIS ROBT M ● 665-5524
1000 DOWSETT STAFFORD A ●
665-2238
1010 FLANAGIN RICHD ● 665-3975
1015 RINKER ROBT F ● 665-3415
1025 LEWIS DALE G ● 665-8430

156

DUKE ST SE -FROM SE 110TH AV EAST
1 SOUTH OF SE FOSTER RD

---ZIP CODE 97266
---SE 110TH DR INTERSECTS
11002 GOFF DONALD L ●

205

EARL CT NW (GRESHAM)-FROM NW 20TH
ST NORTH, 1 WEST OF N MAIN AV

---ZIP CODE 97030
2000 ASPEN HIGHLAND APARTMENTS
665-5396
WINN LARRY
2005 VACANT
2010 COFIELD CONRAD
2015 ALLEN DORIS J MRS
2020 COLTON CHARLES 665-4869
2030 MC MAHON GREGORY P ●
2040 VACANT
2055 LEVINE MILTON ● 665-6312
2065 VACANT

205

EARL ST NW (GRESHAM)-FROM NW 8TH
NORTH, 1 WEST OF N MAIN AV

---ZIP CODE 97030
817 WRIGHT AUSTA ● 665-2325
820 BEEHLER LILY ● 665-8462
833 KOZERA BERNARD L ● 665-2038
835 HEARD DONALD C ● 665-5166
840 BISHOP AUSBY K MRS 665-3264
843 VACANT
860 HELYER VIRGINIA M ● 665-6570
880 HOLLOPETER A R 665-2081
900 COPELAND GOLDIE MRS 665-5109
920 WARD ANN MRS 665-2770
940 VACANT

205

EASTMAN AV NW (GRESHAM)-FROM NW
10TH DR NORTH, 2 NORTHWEST OF
NW DIVISION

---ZIP CODE 97030
---13TH ST INTERSECTS
1319 METAL ROYALE FURNITURE MFR
665-4136
1402 PRINGLE ALBERTA F MRS ●
665-2633
1475 REILLY CHEMICAL CO PLASTIC
2029 STEFLO INDUSTRIES INC MACHS
665-0151
---BURNSIDE RD INTERSECTS

200

ELLIOTT AV NE (GRESHAM)-FROM E
POWELL BLVD NORTH, 3 WEST OF NE
CLEVELAND AV

---ZIP CODE 97030
---2D ST INTERSECTS
210 NELSON ANN M MRS 665-9803
---3D ST INTERSECTS
306 PALMQUIST RETTA MRS ●
665-2042
375 ELLIOTT HOUSE APARTMENTS
665-9817
1 ANTONELLE MARY S MRS
2 VACANT
3 CHAMBERS MARILYN
4 DOLAN EDW 665-9817
5 JOY GORDON C
6 GRASHORN DONA MRS 665-0469
7 KINGSBURY MARY
8 BROWN MARSHALL F 665-2300
9 OLSON C DONALD
10 VACANT
11 FERRIN MARGUERITE S
665-8039
12 JONES DOROTHY B MRS
665-2706
14 LEWIS HAROLD K 665-4569
STREET CONTINUED
---4TH ST INTERSECTS
434 WILSON IRMA H MRS ● 665-5251
---5TH ST INTERSECTS
---6TH ST ENDS

202

ELLIOTT AV SE (GRESHAM)-FROM DEAD
END, 1 NORTH OF SE KENNY SOUTH,
4 WEST OF SE ROBERTS AV

---ZIP CODE 97030
43 PASCHELL GLEEN L ● 665-3341
48 IRVING CLAUDE D ● 665-2485
107 CARMONY O JOHN 665-6621
113 CHEW VERNON R
115 VACANT
116 OLSON VIVIAN E MRS ● 665-9586
117 BOSANKO GARY H 665-9816
121 VACANT
122 STONE VERYL L ● 665-4543
124 KIRKWOOD NELSON M ● 665-3433
165 JOHNSON HANNAH O MRS ●
665-9608
200 MILLER CYRIL G ● 665-6133
214 KINCADE DAVID H
215 DUNCANSON WALTER J 665-9787
220 FLESHER FRED W ● 665-5521
225 FRENZ WALTER A ● 665-6963
249 NO RETURN
300 SALISBURY ROY S ● 665-5309
307 GATES WM E
310 STEFFANSON THERALD R ●
665-7201
327 FITCH CHARLES R ● 665-4023

KIBLING ST SE 1967

KELLY ST SE--CONTD

16050 VACANT
---161ST AV INTERSECTS
16102 STUVICK DALE E ● 761-4951
16107 KOLINSKY ARTH ●
16110 CONIBEAR JAMES S ● 254-1621
---162D AV INTERSECTS

140

---167TH AV INTERSECTS
16735 DUISEN DARREL ● 761-4866
16740 OSBOURN ERVIN T ● 761-4867
16801 MORRIS ROLAND M ● 761-5092
16815 LEONETTI WILFRED ● 761-5244
16818 PITASSI ROBT ● 761-5144
16828 HOOVER GERALD E ● 761-4893
16838 ROVE OLAF I ● 761-4975
---169TH AV INTERSECTS
16912 GLUTH LOREN E ● 761-4785
16930 CHRISTENSEN ROBT ●
16939 HINCHLIFF FORREST P ●
---SE 170TH AV INTERSECTS
17009 VACANT
17010 MORTIMER GEO E JR ● 761-6316
17027 HAMILTON ROBT L ● 761-6157
17030 CURRAN THOS H 761-6326
17039 MC VITTY FRANK JR ● 761-6943
17045 STRATTON RAY C ● 761-6156
17046 WELLER JAMES M ● 761-6195
17104 BLUNK MELVIN W ● 761-6278
17107 NEWMAN OLIVE B MRS ● 761-6287
17114 CHARLEY JACK T ● 761-4332
17121 MC GUIRE KINGSTON L ● 761-6148
17126 COON WM L ● 761-6146
17136 HETHERINGTON WEBSTER ● 761-6188
17137 REMINGTON J FRED ● 761-6129
17148 ANDERSON GORDON D ● 761-6893
---171ST DR INTERSECTS
17208 VENTURA JAMES ● 761-5090
17221 PETERS RICHD G ● 761-5296
17222 MC LAIN DONALD ● 761-6288

142

---177TH AV INTERSECTS
17712 BOLSTER GEO S ● 761-4726
17715 CIOETA NED M ● 761-4816
---177TH AV INTERSECTS
17727 MADILL JAMES R ● 761-4758
17733 KUHNAU QUENTIN C ● 761-4819
---178TH AV INTERSECTS
17807 BREHM GERALD R ● 761-6567
17810 STEWARD STANLEY R ● 761-4876
17821 HODSON GLENN A ● 761-4699
17830 TERRETT SHIRLEY R ● 761-4749
17833 KELLY JOSEPH F ●
17901 MALONE WILLARD W JR ●
17915 MAINWOOD ROBT W ● 761-6586
17924 AGNER HAROLD K ● 761-4137
---180TH AV INTERSECTS
18002 JONES RICHD M ● 761-4500
18014 WORTHINGTON JOSEPH H ● 761-6903
18023 MC HORSE JAMES N ● 761-4796
18030 VACANT
18037 RIEWER THEO H ● 761-4902
18049 KARTEVOLD MATILDA E MRS ● 665-8882
18050 HOPKINS FLOYD E ● 665-7116
18060 FOWLER VICTOR J

300

KENDALL ST SW (TROUTDALE)-FROM W COLUMBIA SOUTH, 1 WEST OF BUXTON RD

203

KENNY AV SE (GRESHAM)-FROM S MAIN AV EAST, 1 SOUTH OF W POWELL BLVD

202

KENNY ST SE (GRESHAM)-FROM SE ROBERTS AV EAST, 1 SOUTH OF SE POWELL BLVD

---ZIP CODE 97030
225 RUGGLES JERRINE B MRS 665-0355
230 AYLSWORTH WM C ● 665-5325
---HOOD AV INTERSECTS
305 SUTTON FRANK R
337 WRIGHT WAYNE F ● 665-4296
340 COWAN ERNEST D
350 WEAVER WM D 665-7242
---BEECH AV INTERSECTS
405 MORRON BESSIE F MRS 665-7400
450 HARDING DOLLY MRS ● 665-2440
490 VACANT
---KELLY AV INTERSECTS
550 SCHOEN TIMOTHY V 665-2640
560 GEISLER ROBT H

300

KIBLING ST SE (TROUTDALE)-FROM E COLUMBIA SOUTH, 3 EAST OF BUXTON RD

---ZIP CODE 97060
102 TROUTDALE CITY HALL 665-5572
104 CITY MAYOR
CITY COUNCILMN
138 COMMUNITY HALL
WINDY WHIRLERS ORGS-SOCIAL
---2D ST INTERSECTS
246 WILLIS EDW E 665-7048
---SE 3D ST INTERSECTS
324 DE CAMP RAYMOND D ● 665-9856
342 SCHATZ GEO J ● 665-5013
408 WRIGHT JIM A 665-0288
423 REEDY MARTIN ● 665-8790
446 HILBERT B C 665-8517

101

KILLINGSWORTH ST NE -FROM NE 42D AV EAST, 2 SOUTH OF NE SIMPSON

---ZIP CODE 97218
4207 BROWN'S HANCOCK SERVICE STATION 284-9132
4226 VACANT
4238 VACANT
4240 NO RETURN
4242 MOSBY R B 281-0842
4250 RUSCH JOE & SON INC SHT MTL WKS 288-1546
4252 VACANT
VACANT
4262 UNGER PAUL R ● 287-2282
CASCADE ARCHERY SPORTING GOODS 287-2282
4313 RED KAP DRIVE IN RESTR
4326 KILLINGSWORTH MEDICAL DENTAL BUILDING 282-1447
DONE ROBT W PHYS 284-2181
GLEASON LEE A PHYS 284-2181
MORRELL GERALD T DENTIST 282-5327
TINKLE JAMES W DENTIST 282-1447
4333 FRANK MARTIN R ● 282-3436
4402 HOAK MARGT MRS ● 288-3441
4403 VACANT
4405 TURNER RILEY ● 281-0502
4425 STAMBAUGH JOSEPH M ● 287-9963

SE 5th Street 1967

5TH ST NW (G)--CONTD
2005 VACANT
2010 BOICE M V ●
2025 VACANT (2025-2035)
2309 WELSH BENNETT M ● 665-3452
2400 HANKS STRAWBERRY FARM
665-5650
HENRY H G ● 665-5650
---RIVERVIEW PL INTERSECTS
---BIRDSDALE AV INTERSECTS

300
5TH ST SE (TROUTDALE)-FROM BUXTON RD EAST, 4 SOUTH OF COLUMBIA

---ZIP CODE 97060
102 MOEN EILEEN R MRS ● 665-2506
136 GREEN THOS 665-0566
148 TALBOTT WALTER B ● 665-0920
---DORA ST INTERSECTS
235 JACKSON WALTER C ● 665-4833
244 TURNER LEROY 665-2090
245 TEMPLE THELDA MRS
---HARLOW ST INTERSECTS
---KIBLING ST INTERSECTS
408 VACANT
431 OTTO ALLAN D ● 665-5172
433 BARRETT CHARLES Z ● 665-6982

204
6TH CT NW (GRESHAM)-FROM A POINT EAST OF 685 NW TOWLE AV WEST

1465 VACANT
1470 VACANT
1475 JOYNER ROBT L ● 665-3397
1480 SCHENK GORDON H ● 665-4253
1485 KLAPSTEIN EARL L ● 665-0610
1520 BARBOUR RICHD L ● 665-9359
1555 CORDELL ORVIN W ● 665-7864
1560 HAGEN JACK R ● 665-0918
1580 LA RUE ISABEL C MRS ●
665-6518
1585 FISH DAVID W ● 665-6762

204
6TH DR NW (GRESHAM)-FROM DEAD END WEST, 1 EAST OF BELLA VISTA DR

---ZIP CODE 97030
1780 REED RALPH L ● 665-2621
1795 MC KEEN CHARLES H ● 665-4309
1800 CUYLER KENNETH C ● 665-2283
1825 FURNISS A VICTOR ● 665-0642
1840 RUPP FRANK M ● 665-7002
1860 GOMOLL DANL G ● 665-3647
1855 ECKMAN WOODROW ● 665-8795
1885 MEISTER ELSIE M ● 665-8568
1890 BARTELS SIDNEY A 665-8207
1920 WILSON W MILES ●
1915 WALLEN JAMES H ● 665-0576
1945 SPRENGER DAN D ● 665-0871
1975 SHARKEY J ALLAN ● 665-9051
1980 BARNARD GARY R ● 665-5975
2005 YUTZE OTTO G ● 665-9507
2010 THOMAS PETER T ● 665-7390
2025 BRYAN GAIL H ● 665-9493
---RIVERVIEW PL INTERSECTS
2020 SHEPHERD LOREN V ● 665-7619

204
6TH PL NW (GRESHAM)-FROM NW CASCADE CT WEST, 1 NORTH OF NW 7TH PL

---ZIP CODE 97030
2178 SHOCKLEY JAMES L ● 665-8561
2185 FELBICK WALTER ● 665-2405
2198 JACOBSON MARION R MRS ●
665-7149

200
6TH ST NE (GRESHAM)-FROM NE HOOD AV EAST, 1 NORTH OF NE 5TH

---ZIP CODE 97030
890 VACANT
895 MULTNOMAH COUNTY RD DEPT
665-5692

163
6TH ST NE (FAIRVIEW)-FROM THE 600 BLOCK OF DEPOT SOUTHEAST

---ZIP CODE 97024
25 HUNTER J JOSEPH ● 665-5393
---DEPOT ST ENDS
30 HARDER CHARLES A ● 665-4944
55 ROBERTS WARNER B ● 665-4501
---MAIN ST INTERSECTS
150 THEBERT FRANCES 665-3709
160 DAVIDSON EDW I ● 665-8220
---CEDAR ST INTERSECTS
280 HENRY HERMAN C 665-4008
265 CLIFT ROBT M 665-8204
267 APARTMENTS
GRIFFIN JAMES B
3 JOHNSON VICTOR 655-4977
5 MC GOWAN FRED G
---HARRISON ST INTERSECTS
---LINCOLN ST INTERSECTS
315 OLIN LARRY R ●
320 CALLAWAY ORVILLE ● 665-9728
340 BRINSER JOHN H ● 665-6241
345 FIELDS HOMER
400 RALPH'S TOWING AUTO TOWING
665-8094
EDWARDS J RALPH
---HALSEY ST INTERSECTS

205
6TH ST NW (GRESHAM)-FROM NW NORMAN AV WEST, 3 NORTH OF NW 1ST

---ZIP CODE 97030
790 WILLIAMS JOHN C JR ● 655-3862
840 MISHIMA HENRY ● 665-3475
---5TH ST INTERSECTS
875 FROESE OSCAR T ● 655-9719
890 MORGAN HECTOR ● 665-7930
1095 GEE JOHN R ● 664-2934
---OVERLOOK AV INTERSECTS
1200 SAVAGE CHARLES H ● 665-6493

300
6TH ST SE (TROUTDALE)-FROM BUXTON RD EAST, 5 SOUTH OF COLUMBIA

---ZIP CODE 97060
131 BARCLAY H F ● 665-3703
---DORA ST INTERSECTS
134 WILSON LOUIS A ● 665-0363

204
7TH CT NW (GRESHAM)-FROM NW BIRDSDALE AV EAST, 3 NORTH OF W POWELL BLVD

---ZIP CODE 97030
1555 DAVISON ROBT L ● 665-3457
1560 CREMER FERDINAND ● 665-5921
1580 FISHER WM J ● 665-5526
1585 GARNER GENE A ● 665-6371

204
7TH PL NW (GRESHAM)-FROM 720 BELLA VISTA DR WEST, 1 NORTH OF NW 6TH DR

---ZIP CODE 97030

Troutdale Elementary School
648 SE Harlow Avenue
Troutdale, OR 97060

Inquiry Number: 4560264.3
March 09, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

3/09/16

Site Name:
Troutdale Elementary School
648 SE Harlow Avenue
Troutdale, OR 97060

Client Name:
GeoDesign Inc.
15575 SW Sequoia Parkway
Portland, OR 97224

EDR Inquiry # 4560264.3

Contact: Jeremy Zimber

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Troutdale Elementary School
Address: 648 SE Harlow Avenue
City, State, Zip: Troutdale, OR 97060
Cross Street:
P.O. # NA
Project: ReynoldsSD-4-02
Certification # 4057-4317-B6E1

Maps Provided:

1931
1925

Sanborn® Library search results
Certification # 4057-4317-B6E1

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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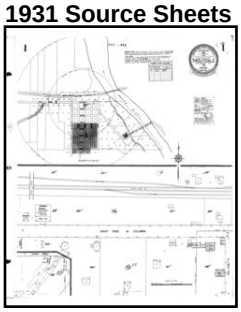
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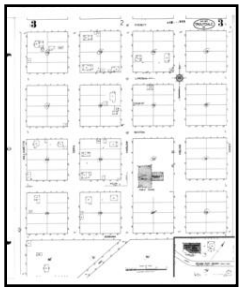
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1931 Source Sheets



Volume 1, Sheet 1

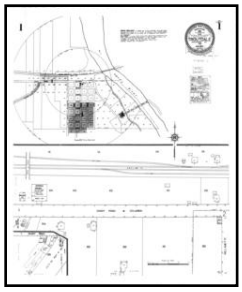


Volume 1, Sheet 3

1925 Source Sheets

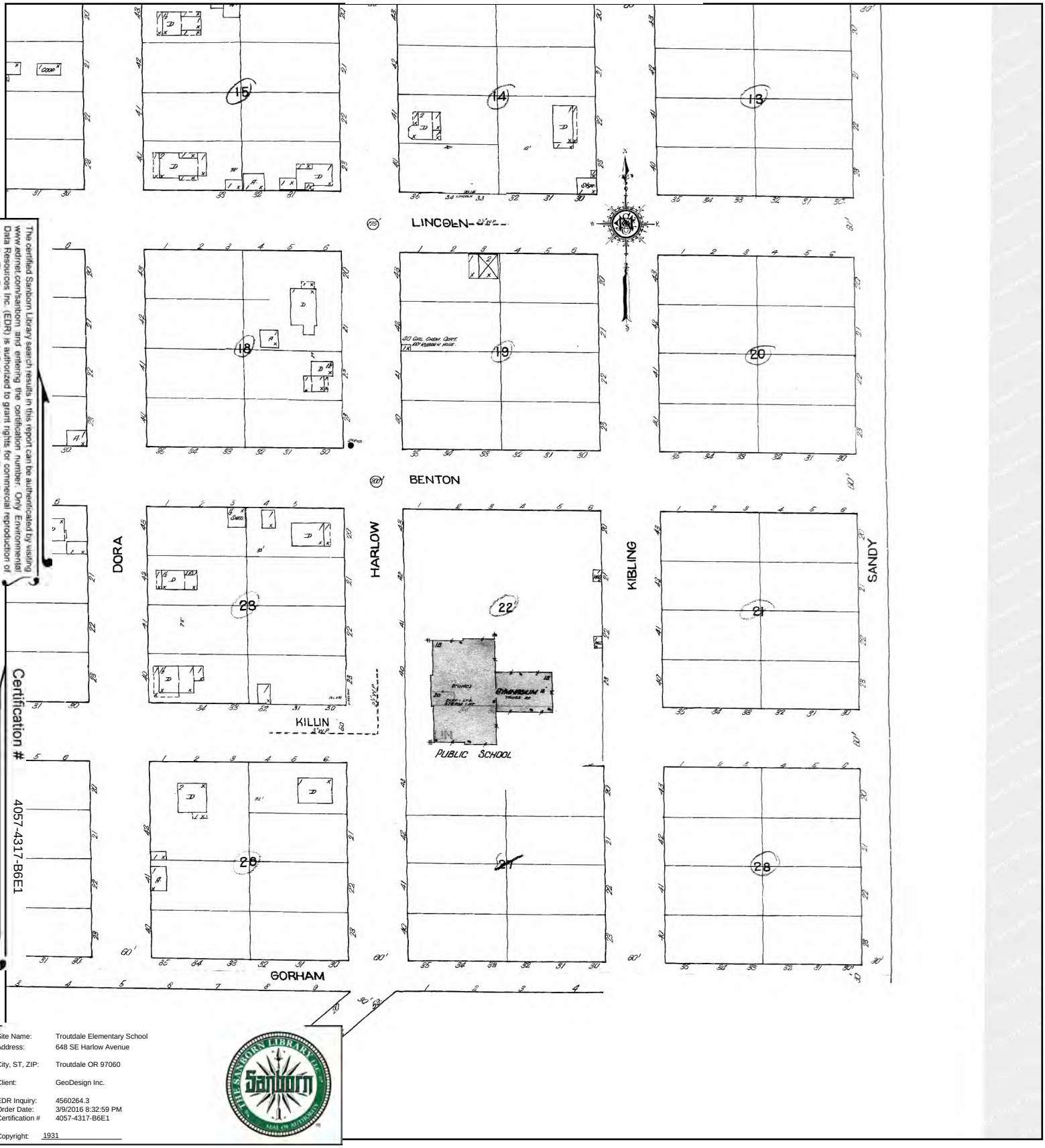


Volume 1, Sheet 3



Volume 1, Sheet 1

1931 Certified Sanborn Map



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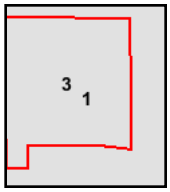
Certification # 4057-4317-B6E1

Site Name: Troutdale Elementary School
Address: 648 SE Harlow Avenue
City, ST, ZIP: Troutdale OR 97060
Client: GeoDesign Inc.
EDR Inquiry: 4560264.3
Order Date: 3/9/2016 8:32:59 PM
Certification # 4057-4317-B6E1
Copyright: 1931

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600





Volume 1, Sheet 1
Volume 1, Sheet 3

N

1925 Certified Sanborn Map



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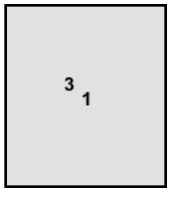
Certification # 4057-4317-B6E1

Site Name: Troutdale Elementary School
Address: 648 SE Harlow Avenue
City, ST, ZIP: Troutdale OR 97060
Client: GeoDesign Inc.
EDR Inquiry: 4560264.3
Order Date: 3/9/2016 8:32:59 PM
Certification # 4057-4317-B6E1
Copyright: 1925

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Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600





Volume 1, Sheet 3
Volume 1, Sheet 1

N



648 WI/ SE HARLOW AVE

TROUTDALE, OR 97060

ASSESSOR

Address	648 WI/ SE HARLOW AVE
Address2	TROUTDALE, OR 97060
City	TROUTDALE
Property ID	R290674
Tax Roll	TROUTDALE & 1ST ADD, BLOCK 26, LOT 6&8
Use	PUBLIC BLDG
Lot	6&8
Block	26
County	Multnomah
State ID	1N3E25CD 2000
Alt Account Number	R843304130
Map Number	251N3E OL
Land Type	CONVERTED COMMERCIAL SEGMENT
Total Land Area	0.23 acres (10,000 sq ft)
Assessor Update Date	04/11/2016 7:20AM

Owner

Name	SCHOOL DIST NO 7
Type	OWNER (PRIMARY)
Address	1204 NE 201ST AVE
City	FAIRVIEW
State	OR
Zip Code	97024

Sales History & Deed

Type	INST
Instrument	BP12730027
Sale Price	$0.00

Improvements

Improvement Type	MISC YARD IMPROVEMENTS
Improvement Value	$64,780.00
Building Class	PUBLIC BLDG
Number Of Segments	1

Segment Number	Segment Type	Class	Area Sq Ft

Segment Number	Segment Type	Class	Area Sq Ft
1	SURFACE PARKING	1	2500

Assessment History

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2015	$64,780.00	$35,260.00	$0.00	$100,040.00	$100,040.00	$0.00
2014	$69,650.00	$37,910.00	$0.00	$107,560.00	$107,560.00	$0.00
2013	$69,650.00	$37,910.00	$0.00	$107,560.00	$107,560.00	$0.00
2012	$74,100.00	$40,330.00	$0.00	$114,430.00	$114,430.00	$0.00
2011	$69,900.00	$38,050.00	$0.00	$107,950.00	$107,950.00	$0.00

Tax Districts

Code	Description
101	PORT OF PORTLAND
131	CITY OF TROUTDALE
143	METRO
164	EAST MULT SOIL/WATER
170	MULTNOMAH COUNTY

Tax History

Year	Property Tax	Total Tax
2015	$0.00	$60.00
2014	$0.00	$60.00
2013	$0.00	$60.00
2012	$0.00	$50.00
2011	$0.00	$50.00

Tax Maps

Quarter Section	Size
1n3e25cd (Current Property)	254.8 KB
1n3e25	349.7 KB
1n3e25b	119.9 KB
1n3e25bc	125.5 KB
1n3e25bd	104.3 KB



648 WI/ SE HARLOW AVE

TROUTDALE, OR 97060

ASSESSOR

Address	648 WI/ SE HARLOW AVE
Address2	TROUTDALE, OR 97060
City	TROUTDALE
Property ID	R290675
Tax Roll	TROUTDALE & 1ST ADD, BLOCK 27 EXC PT IN ST
Use	PUBLIC BLDG
Block	27
County	Multnomah
State ID	1N3E25CD 2200
Alt Account Number	R843304170
Map Number	251N3E OL
Land Type	RESIDENTIAL LAND
Total Land Area	0.88 acres (38,437 sq ft)
Assessor Update Date	04/11/2016 7:20AM

Owner

Name	SCHOOL DIST NO 7
Type	OWNER (PRIMARY)
Address	1204 NE 201ST AVE
City	FAIRVIEW
State	OR
Zip Code	97024

Sales History & Deed

Type	INST
Instrument	BP07100126
Sale Price	$0.00

Assessment History

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2015	$0.00	$336,600.00	$0.00	$336,600.00	$336,600.00	$0.00
2014	$0.00	$361,940.00	$0.00	$361,940.00	$361,940.00	$0.00
2013	$0.00	$361,940.00	$0.00	$361,940.00	$361,940.00	$0.00
2012	$0.00	$385,040.00	$0.00	$385,040.00	$385,040.00	$0.00
2011	$0.00	$363,240.00	$0.00	$363,240.00	$363,240.00	$0.00

Tax Districts

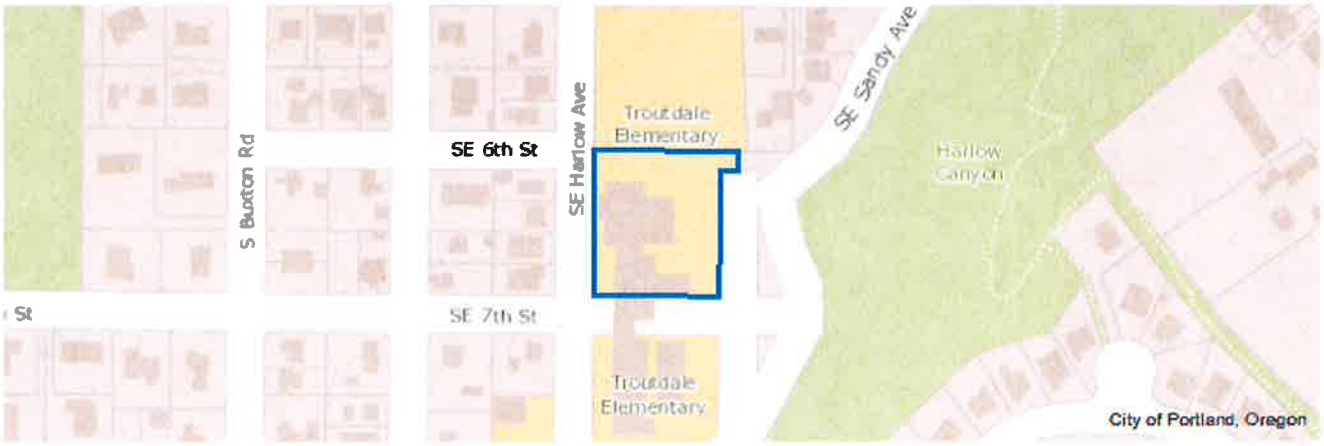
Code	Description
101	PORT OF PORTLAND
131	CITY OF TROUTDALE
143	METRO
164	EAST MULT SOIL/WATER
170	MULTNOMAH COUNTY

Tax History

Year	Property Tax	Total Tax
2015	$0.00	$60.00
2014	$0.00	$60.00
2013	$0.00	$60.00
2012	$0.00	$50.00
2011	$0.00	$50.00

Tax Maps

Quarter Section	Size
1n3e25cd (Current Property)	254.8 KB
1n3e25	349.7 KB
1n3e25b	119.9 KB
1n3e25bc	125.5 KB
1n3e25bd	104.3 KB



648 SE HARLOW AVE

TROUTDALE, OR 97060

ASSESSOR

Address	648 SE HARLOW AVE
Address2	TROUTDALE, OR 97060
City	TROUTDALE
Property ID	R290651
Tax Roll	TROUTDALE & 1ST ADD, BLOCK 22, INC PT VAC ST LOT 1&2, LOT 3-8
Use	PUBLIC BLDG
Lot	1&2,3-8
Block	22
County	Multnomah
State ID	1N3E25CD 400
Alt Account Number	R843303370
Map Number	251N3E OL
Land Type	RESIDENTIAL LAND
Total Land Area	1.08 acres
Assessor Update Date	04/11/2016 7:20AM

Owner

Name	SCHOOL DIST NO 7
Type	OWNER (PRIMARY)
Address	1204 NE 201ST AVE
City	FAIRVIEW
State	OR
Zip Code	97024

Sales History & Deed

Type	INST
Instrument	BP01860365
Sale Price	$0.00

Improvements

Improvement Type	MISCELLANEOUS
Improvement Value	$2,597,070.00
Building Class	PUBLIC BLDG
Actual Year Built	1927
Number Of Segments	2

Segment Number	Segment Type	Class	Area Sq Ft
1	MAIN		29664
2	BASEMENT M/S		19750
1	SURFACE PARKING	2	5200
2	FENCE	2	
3	CONCRETE	2	12600
1	MAIN		3456

Assessment History

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2015	$2,597,070.00	$264,860.00	$0.00	$2,861,930.00	$2,861,930.00	$0.00
2014	$2,792,550.00	$284,800.00	$0.00	$3,077,350.00	$3,077,350.00	$0.00
2013	$2,792,550.00	$284,800.00	$0.00	$3,077,350.00	$3,077,350.00	$0.00
2012	$2,970,800.00	$302,980.00	$0.00	$3,273,780.00	$3,273,780.00	$0.00
2011	$2,755,470.00	$285,830.00	$0.00	$3,041,300.00	$3,041,300.00	$0.00

Tax Districts

Code	Description
101	PORT OF PORTLAND
131	CITY OF TROUTDALE
143	METRO
164	EAST MULT SOIL/WATER
170	MULTNOMAH COUNTY

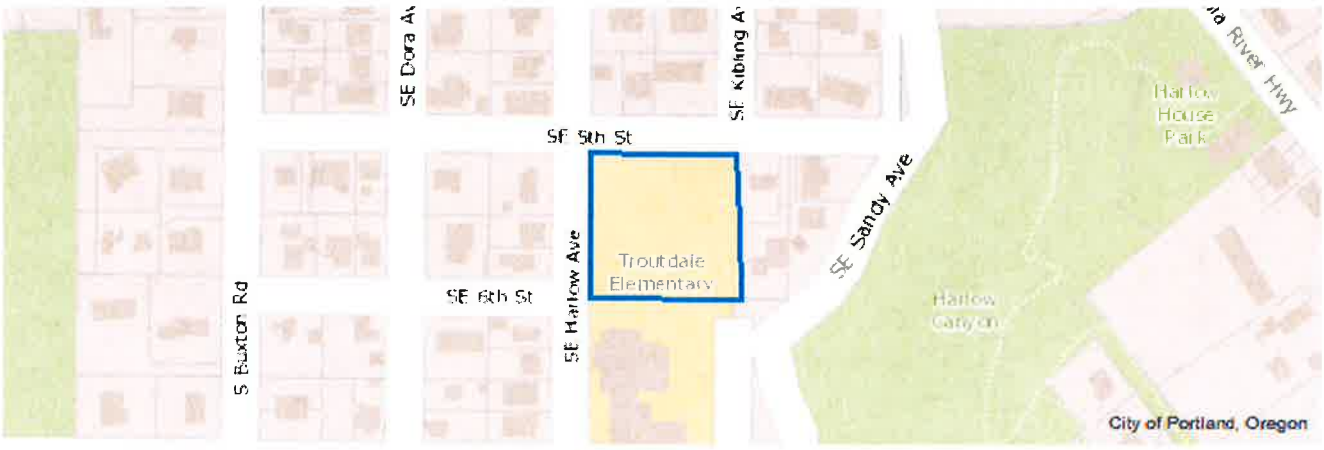
Tax History

Year	Property Tax	Total Tax
2015	$0.00	$60.00
2014	$0.00	$60.00
2013	$0.00	$60.00
2012	$0.00	$50.00
2011	$0.00	$50.00

Tax Maps

Quarter Section	Size
1n3e25cd (Current Property)	254.8 KB

Quarter Section	Size
1n3e25	349.7 KB
1n3e25b	119.9 KB
1n3e25bc	125.5 KB
1n3e25bd	104.3 KB



648 WI/ SE HARLOW AVE

TROUTDALE, OR 97060

ASSESSOR

Address	648 WI/ SE HARLOW AVE
Address2	TROUTDALE, OR 97060
City	TROUTDALE
Property ID	R290648
Tax Roll	TROUTDALE & 1ST ADD, BLOCK 19&20 TL 2900
Use	PUBLIC BLDG
Block	19&20 TL 2900
County	Multnomah
State ID	1N3E25CA 2900
Alt Account Number	R843302970
Map Number	251N3E OL
Land Type	CONVERTED COMMERCIAL SEGMENT
Total Land Area	1.26 acres
Assessor Update Date	04/11/2016 7:20AM

Owner

Name	SCHOOL DIST NO 7
Type	OWNER (PRIMARY)
Address	1204 NE 201ST AVE
City	FAIRVIEW
State	OR
Zip Code	97024

Sales History & Deed

Type	INST
Instrument	BP09832096
Sale Price	$0.00

Assessment History

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2015	$0.00	$176,580.00	$0.00	$176,580.00	$176,580.00	$0.00
2014	$0.00	$189,870.00	$0.00	$189,870.00	$189,870.00	$0.00
2013	$0.00	$189,870.00	$0.00	$189,870.00	$189,870.00	$0.00
2012	$0.00	$201,990.00	$0.00	$201,990.00	$201,990.00	$0.00

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2011	$0.00	$190,550.00	$0.00	$190,550.00	$190,550.00	$0.00

Tax Districts

Code	Description
101	PORT OF PORTLAND
131	CITY OF TROUTDALE
143	METRO
164	EAST MULT SOIL/WATER
170	MULTNOMAH COUNTY

Tax History

Year	Property Tax	Total Tax
2015	$0.00	$60.00
2014	$0.00	$60.00
2013	$0.00	$60.00
2012	$0.00	$50.00
2011	$0.00	$50.00

Tax Maps

Quarter Section	Size
1n3e25ca (Current Property)	236.5 KB
1n3e25	349.7 KB
1n3e25b	119.9 KB
1n3e25bc	125.5 KB
1n3e25bd	104.3 KB

Multnomah Assessor
PROPERTY INFORMATION

Owner Name	Property ID #
SCHOOL DIST NO 7	R290648
Owner Address	Map Tax Lot #
1204 NE 201ST AVE FAIRVIEW, OR 97024	1N3E25CA -02900
Situs Address	Neighborhood
648 WI/ SE HARLOW AVE TROUTDALE, OR 97060	C700
Alternate Account Number	Levy Code Area
R843302970	242
Information on Ordering Copies	Portland Maps http://www.portlandmaps.com

Exemption	Expiration Date
(5) SCHOOL DISTRICTS	
Tax Roll Description	Map Number
TROUTDALE & 1ST ADD, BLOCK 19&20 TL 2900	251N3E 1N3E25CA -02900 OLD
	Parcel Property Use
	UK - PUBLIC BLDG
Split/ Merge Account Message	Split/ Merge Account Acreage
Special Account Information	Year Built Account Status
	A - Active
Related Accounts	Linked Accounts
	R290650, R290651, R290674, R290675, R290676

Deed	Grantor (Seller)	Grantee (Buyer)	Instrument	Date	Consider Amt
INST	SCHOOL DIST NO 7	SCHOOL DIST NO 7	BP09832096		$0

Last Certified Year (2015) Information for R290648			
Taxable Assessed	Taxable Real Market		

Value	Value	Land Value	Improvement Value
$0	$0	$176,580	$0

Important Information About R290648
If applicable, the described property is receiving special valuation based upon its use. Additional rollback taxes which may become due based on the provisions of the special valuation are not indicated in this listing.

Total Tax Payoff Amount		
Current Year Tax Owed	Interest Date	Total Tax Payoff Amount
$0.00	04/11/2016	$0.00

Current Property Tax						
Third	Begin Balance	Amount Paid	Taxes Paid	Interest Paid	Discount	Date Paid
1st	20.00	20.00	20.00	0.00	0.00	11/03/15
2nd	20.00	19.20	19.20	0.00	0.80	11/03/15
3rd	20.00	19.00	19.00	0.00	1.00	11/03/15

Information Subject to Disclaimer - See Home Page

Tax Summary							
Year	Total Levied	Ad Valorem	Special Assessments	Principal	Interest	Date Paid	Total Owed
2015	60.00	0.00	60.00 [561] 60.00	0.00	0.00	11/03/15	0.00
2014	60.00	0.00	60.00 [561] 60.00	0.00	0.00	11/12/14	0.00
2013	60.00	0.00	60.00 [561] 60.00	0.00	0.00	11/12/13	0.00
2012	50.00	0.00	50.00 [561] 50.00	0.00	0.00	10/29/12	0.00

Property Tax History Summary						
Tax Year	Taxes Levied	Total Paid	Taxes Paid	Interest Paid	Date Paid	Total Owed
2015	60.00	58.20	58.20	0.00	11/03/15	0.00

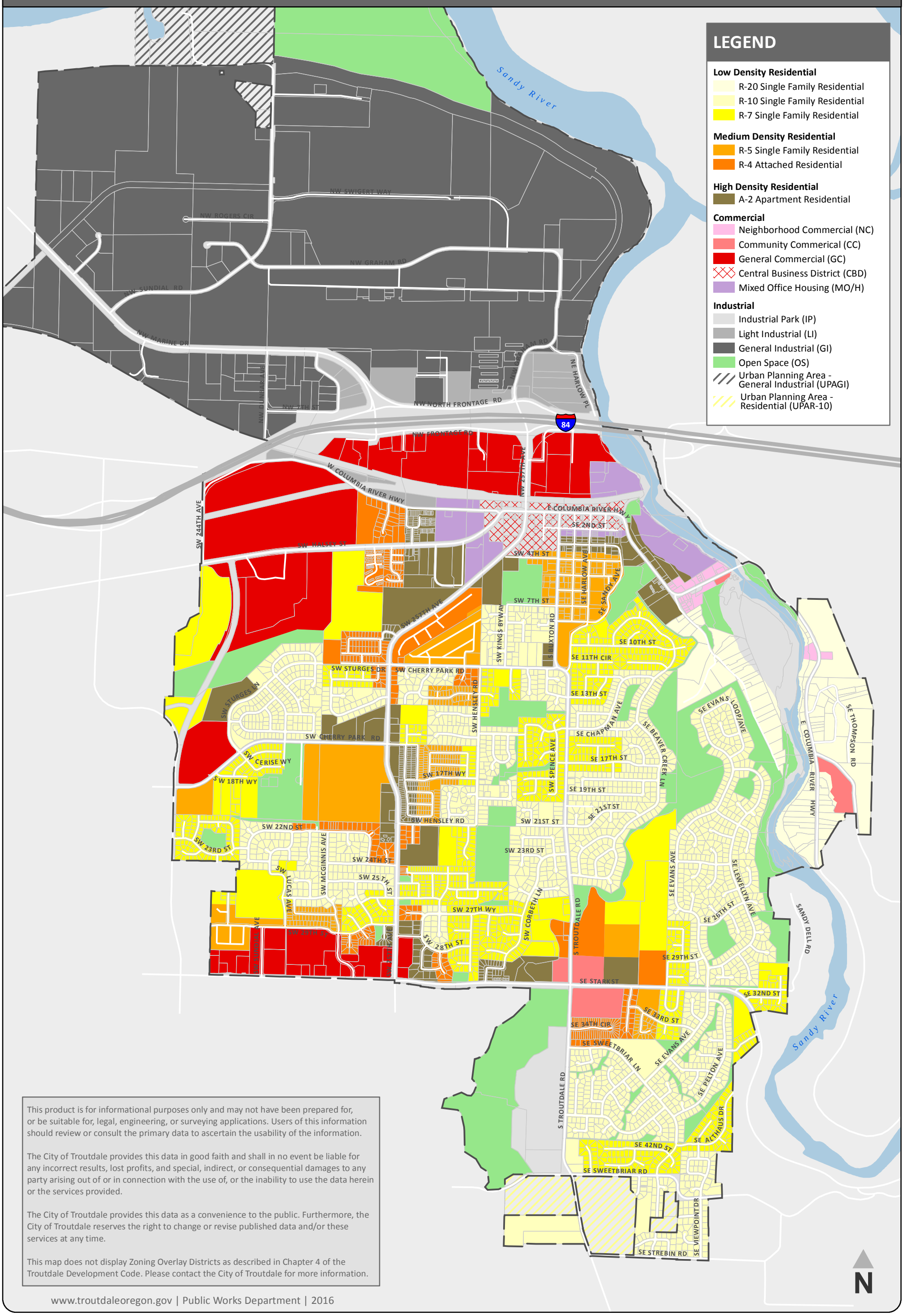
2014	60.00	58.20	58.20	0.00	11/12/14	0.00
2013	60.00	58.20	58.20	0.00	11/12/13	0.00
2012	50.00	48.50	48.50	0.00	10/29/12	0.00

Assessment History						
Year	Improvements	Land	Special Mkt/ Use	RMV	Exemptions	Assessed
2015	$0	$176,580	$0 / $0	$176,580	5	$0
2014	$0	$189,870	$0 / $0	$189,870	5	$0
2013	$0	$189,870	$0 / $0	$189,870	5	$0
2012	$0	$201,990	$0 / $0	$201,990	5	$0
2011	$0	$190,550	$0 / $0	$190,550	5	$0
2010	$0	$190,550	$0 / $0	$190,550	5	$0
2009	$0	$190,550	$0 / $0	$190,550	5	$0
2008	$0	$190,550	$0 / $0	$190,550	5	$0
2007	$0	$181,480	$0 / $0	$181,480	5	$0
2006	$0	$181,480	$0 / $0	$181,480	5	$0
2005	$0	$168,040	$0 / $0	$168,040	5	$0
2004	$0	$152,760	$0 / $0	$152,760	5	$0
2003	$0	$152,760	$0 / $0	$152,760	5	$0
2002	$0	$146,880	$0 / $0	$146,880	5	$0
2001	$0	$146,880	$0 / $0	$146,880	5	$0
2000	$0	$129,990	$0 / $0	$129,990	5	$0
1999	$0	$126,200	$0 / $0	$126,200	5	$0
1998	$0	$120,200	$0 / $0	$120,200	5	$0
1997	$0	$114,500	$0 / $0	$114,500	5	$0
1996	$0	$107,000	$0 / $0	$107,000	5	$0
1995	$0	$100,000	$0 / $0	$100,000	5	$0

2016 Land Information (Unedited and Uncertified)			
ID	Type	Acres	Sq Ft
L1	CVCL - CONVERTED COMMERCIAL SEGMENT	1.26	54795

2016 Improvement Information (Unedited and Uncertified)				
ID	Type	Class	Area	Year Built Actual/ Effective

CITY OF TROUTDALE
ZONING DISTRICT MAP



This product is for informational purposes only and may not have been prepared for, or be suitable for, legal, engineering, or surveying applications. Users of this information should review or consult the primary data to ascertain the usability of the information.

The City of Troutdale provides this data in good faith and shall in no event be liable for any incorrect results, lost profits, and special, indirect, or consequential damages to any party arising out of or in connection with the use of, or the inability to use the data herein or the services provided.

The City of Troutdale provides this data as a convenience to the public. Furthermore, the City of Troutdale reserves the right to change or revise published data and/or these services at any time.

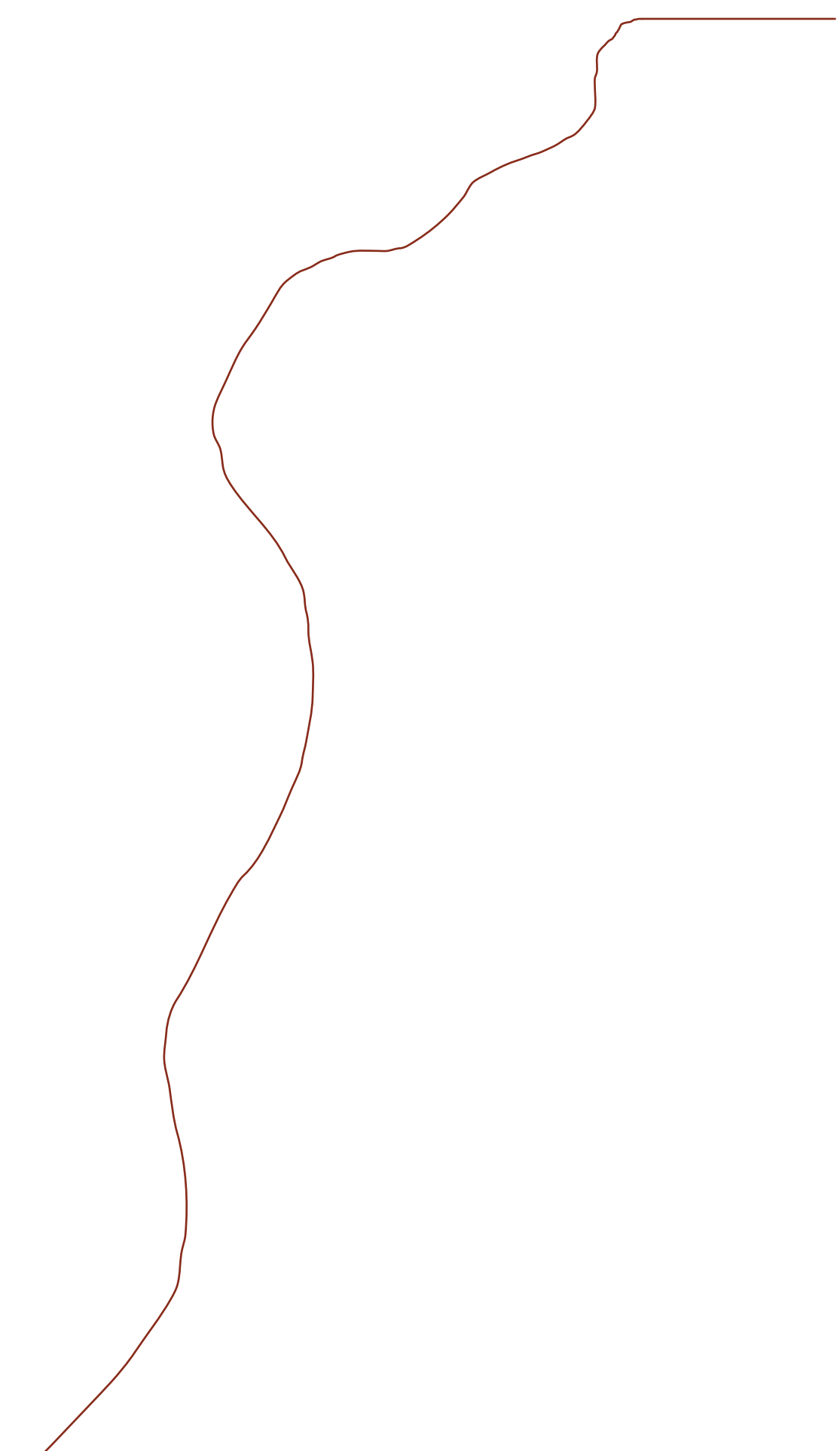
This map does not display Zoning Overlay Districts as described in Chapter 4 of the Troutdale Development Code. Please contact the City of Troutdale for more information.

www.troutdaleoregon.gov | Public Works Department | 2016

ACRONYMS AND ABBREVIATIONS

ACRONYMS AND ABBREVIATIONS

AST	aboveground storage tank
ASTM	American Society for Testing and Materials
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
ECHO	Enforcement & Compliance History Information
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
FINDS	Facilities Index System/Facility Registry System
ICIS	Integrated Compliance Information System
LUST	Leaking Underground Storage Tank
MSL	mean sea level
ORS	Oregon Revised Statute
PCB	polychlorinated biphenyl
UIC	underground injection control
USGS	U.S. Geological Survey
UST	underground storage tank



GeoDesign Inc

REPORT OF GEOTECHNICAL ENGINEERING SERVICES

Troutdale Elementary School
648 SE Harlow Avenue
Troutdale, Oregon

For
Reynolds School District #7
May 2, 2016

GeoDesign Project: ReynoldsSD-4-01

GeoDesign Inc

May 2, 2016

Reynolds School District #7
1204 NE 201st Avenue
Fairview, OR 97024

Attention: Ms. Rachel Hopper

Report of Geotechnical Engineering Services
Troutdale Elementary School
648 SE Harlow Avenue
Troutdale, Oregon
GeoDesign Project: ReynoldsSD-4-01

GeoDesign, Inc. is pleased to submit our report of geotechnical engineering services associated with re-construction of Troutdale Elementary School. Troutdale Elementary School is located on the east side of SE Harlow Avenue in Troutdale, Oregon. Our services for this project were conducted in accordance with our proposal dated January 5, 2016.

We appreciate the opportunity to be of continued service to you. Please call if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.

George Saunders, P.E., G.E.
Principal Engineer

cc: Mr. Robert Collins, Day CPM Services (via email only)

VCL:GPS:kt
Attachments
Document ID: ReynoldsSD-4-01-050216-geor.docx
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EXECUTIVE SUMMARY

The following is a summary of our findings and recommendations for design and construction of the proposed school development. This executive summary is limited to an overview of the project. We recommend that the report be referenced for a more thorough description of the subsurface conditions and geotechnical recommendations for the project.

- Based on the assumed foundation loads, the proposed structure can be supported on shallow foundations bearing on granular pads underlain by firm native soil or soil compacted as structural fill as presented in the "Shallow Foundations" section of this report.

- Up to approximately 3 to 5 feet of fill was encountered in two of our exploration. Where present, we recommend that this fill material be removed from under all building foundation elements. In the proposed pavement and floor slab areas where the cut is less than 3 feet and where fill is encountered at the subgrade elevation, the upper 12 inches of the subgrade should either be removed and replaced with structural fill or the subgrade scarified and compacted as structural fill, as discussed in the "Site Preparation" section of this report.

- The site will require demolition of existing asphalt pavements, curbs, and other site features. Wet, sensitive subgrade should be anticipated. A more detailed description of our recommendations is provided in the "Construction Considerations" section of this report.

- The on-site soil can be sensitive to small changes in moisture content and difficult, if not impossible, to adequately compact during wet weather or when the moisture content of the soil is more than a couple of percent above the optimum required for compaction. As discussed in the report, the moisture content of the soil currently is above optimum, and drying will be required if used as structural fill.

- The on-site soil will provide inadequate support for construction equipment during periods of persistent rainfall. Granular haul roads and working pads or cement amendment should be employed if earthwork will occur during the wet winter months.

- Based on our infiltration testing results, infiltration is feasible at the tested depths (approximately 10 to 10.5 feet BGS). If built, confirmation testing should be performed on infiltration systems to verify the infiltration capacity.

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ACRONYMS AND ABBREVIATIONS

1.0 INTRODUCTION

GeoDesign, Inc. is pleased to submit this geotechnical engineering report for the proposed re-construction of Troutdale Elementary School. Troutdale Elementary School is located at 648 SE Harlow Avenue in Troutdale, Oregon. Figure 1 shows the site relative to existing topographic and physical features. Figure 2 shows the proposed site layout and our approximate exploration locations.

The logs and laboratory testing results are presented in Appendix A, and a log obtained from OWRD for a nearby exploration is presented in Appendix B. Our site-specific seismic evaluation of the site is presented in Appendix C, and the Master Plan for the proposed reconstruction of the school is presented in Appendix D. Acronyms and abbreviations used herein are defined at the end of this document.

1.1 PROJECT UNDERSTANDING

The school currently consists of the existing one-story school building on the south portion of the site. The building has a partial basement. There is an AC-paved parking lot on the west side of the school building. On the east side of the school building there are AC-paved and bark dust-surfaced playground areas. The grass-covered playfields and baseball diamond are located on the north portion of the site. The site includes a single-story garage with an AC-paved parking lot at the northwest corner of SE Harlow Avenue and SE 8th Street.

Based on our review of the Site Assessments & Master Plan Concepts document (Appendix D), we understand that the proposed construction sequence for Troutdale Elementary School is to construct the new school building on the existing playfield in the north portion of the property. The new school building will not include a basement. Following construction of the new building, the existing school building will be demolished and a new playfield and parking lot will be constructed where the former school building resided. The preliminary plan does not propose any changes to the existing AC parking lot on the west side of the school. In the location of the existing garage across the street from the main school property, a new parking lot will be constructed.

Stormwater management plans were not known at the time of our report and explorations. Our scope of work included obtaining field-measured infiltration rates to evaluate the preliminary feasibility of stormwater disposal on site. Based on our review of a UIC assessment (PBS, 2015), we understand that there is one active dry well and two abandoned septic systems on the school property. The dry well is approximately 6 feet deep. We conducted infiltration testing within the sand unit at depths of approximately 10 to 10.5 feet BGS.

As part of our Phase I ESA for Troutdale Elementary School (GeoDesign, 2016), records indicated that soil and groundwater contamination was encountered during a heating oil UST decommissioning in July 2001. PBS provided a report and certification for the heating oil UST assessment and/or cleanup and DEQ subsequently registered the report and certification and closed its file in a letter dated October 12, 2001. Two additional possible USTs were observed on the project site, one formerly associated with a boiler located in the main school building and

one associated with an oil furnace in the storage building on Tax Lot 02000, across SE Harlow Avenue from the main school campus. The locations of these USTs are documented in our Phase I ESA report.

Foundation loads were not available at the time of this report; however, based on our experience with prior school buildings, we anticipate that the maximum column loads will be approximately 150 kips and the maximum wall loads will be 3 to 4 kips per linear foot. Maximum floor slab loads are anticipated to be 100 psf. Cuts and fills on the site are anticipated to be no more than a few feet each.

2.0 SCOPE OF SERVICES

The purpose of our geotechnical engineering services was to characterize site subsurface conditions and provide geotechnical engineering recommendations for use in design and construction of the proposed development. Our scope of work included the following.

Geotechnical Exploration

- Reviewed readily available published geologic data and our in-house files for existing information on subsurface conditions in the site vicinity.
- Completed the following explorations:
  - Drilled seven borings (B-1 through B-7) to depths ranging from 5.5 to 56.5 feet BGS.
  - Performed infiltration testing in two boring at depths of approximately 10 and 10.5 feet BGS
- Classified the materials encountered in the borings, and maintained a detailed log of each boring.
- Completed laboratory analyses on disturbed and undisturbed soil samples obtained from the borings as follows:
  - Twenty-three moisture content determinations in general accordance with ASTM D 2216
  - Eight percent-fines determination in general accordance with ASTM C 117 or ASTM D 1140
- Developed 20-year pavement designs for car and bus loads.
- Provided recommendations for site preparation and grading, including demolition, temporary and permanent slopes, fill placement criteria, suitability of on-site soil for fill, subgrade preparation, and recommendations for wet weather construction.
- Provided foundation support recommendations for the proposed structure. Our recommendations include preferred foundation type, allowable bearing capacity, and lateral resistance parameters.
- Provided recommendations for use in design of conventional retaining walls, including backfill and drainage requirements and lateral earth pressures.
- Evaluated groundwater conditions at the site, and provided general recommendations for dewatering during construction and subsurface drainage.
- Provided recommendations for seismic design factors in accordance with the procedures outlined in the 2012 IBC and 2014 SOSSC.
- Prepared this geotechnical engineering report that presents our findings, conclusions, and recommendations.

Site-Specific Seismic Evaluation

The 2014 SOSSC requires a seismic hazard investigation for "special occupancy structures." Special occupancy structures include “buildings for every public, private or parochial school through secondary level or day care centers with a capacity greater than 250 individuals.” Our services included a seismic hazard investigation. The specific scope of our services is summarized as follows:

- Reviewed available seismic hazard maps, published dynamic soil properties in the vicinity, and geologic maps and geotechnical reports discussing subsurface conditions.
- Evaluated design-level base rock motions at the site using both probabilistic and deterministic methods.
- Selected and modified existing analogous earthquake records to model expected base rock motions.
- Modeled the soil response at the site using the computer program EZ-FRISK, and conducted sensitivity analyses of model parameters, including soil properties, soil thicknesses, and base rock motions.
- Provided response spectra at the ground surface and primary foundation elevations, as well as PGAs.
- Evaluated liquefaction potential and other pertinent and code-identified hazards and their potential effect on the proposed development.
- The results of our site-specific seismic evaluation are presented in Appendix C.

3.0 SITE CONDITIONS

3.1 GEOLOGIC SETTING

The site is located in the central part of the Portland Basin physiographic province, which is bound by the Tualatin Mountains to the west and south and the Cascade Range to the east and north. The Portland Basin is described as a fault-bounded, pull-apart basin that was formed by two northwest trending fault zones (Pratt et al., 2001). The Portland Hills fault zone trends along the west side of the basin and the Frontal fault zone trends along the east side of the basin near Lacamas Lake, east of Vancouver, Washington. The Portland Basin is underlain by volcanic bedrock and contains a thick sequence of sedimentary deposits that fill the structural basin.

The surface geologic unit mapped at the site consists of a sequence of late-Pleistocene Age (15,000 to 10,000 years before present) cataclysmic glacial flood deposits that consist of unconsolidated, stratified gravel, sand, and silt that locally contains boulders (glacial erratics or drop stones). This unit correlates to the Missoula Flood events that scoured eastern Washington and deposited thick gravel bars at the eastern portion of the Portland Basin where the Columbia River exits the Columbia Gorge (Evarts and O’Connor, 2008).

Our subsurface borings did not encounter gravel deposits underlying the site as mapped by Evarts and O’Connor (2008). The borings encountered medium dense to dense sand with varying amounts of gravel that is more representative of more recent (post Missoula flood) volcanic lahar deposits that are mapped on a terrace along the Sandy River located just to the east and southeast of the site (Evarts and O’Connor, 2008). We believe that the surficial mapping

at the site may be incorrect and the mapped lahar deposits may extend farther to the north and west, which underlies the site. The older gravel flood deposits may underlie the lahar deposits at depths beyond the reach of our borings (56.5 feet BGS).

The flood deposits are underlain by the Pliocene to Pleistocene Age (5 million to 2 million years before present) Troutdale Formation, which consists of interbedded hyaloclastic sandstone and conglomerate units (Evarts and O'Connor, 2008). The Troutdale Formation is estimated to extend to depths of approximately 100 feet BGS in the site vicinity and represents extensive fluvial deposition from the ancient Columbia River where it enters the eastern Portland Basin.

The Troutdale Formation is underlain by the late Miocene to Pliocene Age (11 million to 5 million years before present) SRM, which consists of consolidated, laminated silty clay, micaceous sand, siltstone, mudstone, and claystone (Evarts and O'Connor, 2008). Based on geologic mapping and deep water well logs, the SRM is estimated to extend to depths of approximately 900 feet BGS in the site vicinity (Gannet and Caldwell, 1998).

The SRM is underlain by the Miocene Age (20 million to 10 million years before present) Columbia River Basalt Group, which is a series of basalt flows that originated from southeastern Washington and northeastern Oregon. The Columbia River Basalt Group is considered the geologic basement unit for this report.

3.2 SURFACE CONDITIONS

The school is located on the east side of SE Harlow Avenue and north of its intersection with SE 8th Street and SE Sandy Avenue. As discussed in the "Project Understanding" section of this report, the existing school building is located on the south portion of the property with the grass-covered playfields and baseball diamond located on the north portion of the property. The east side of the school building is developed with AC-paved and bark dust-surfaced play areas and there is a parking lot along the west side of the school building. The school property includes a garage building and AC parking lot, which are located on the west side of SE Harlow Avenue and the north side of SE 8th Street. The site is relatively flat with a slight slope to the northeast. Ground surface elevations range from approximately 223 to 236 feet.

3.3 SUBSURFACE CONDITIONS

3.3.1 General

We explored subsurface conditions at the site by drilling seven borings (B-1 through B-7) to depths ranging from 5.5 to 56.5 feet BGS. The approximate exploration locations are shown on Figure 2. The boring logs and laboratory test results are presented in Appendix A. A nearby well log obtained from OWRD is presented in Appendix B and provides additional information for the deeper soil profile at the site.

The following sections summarize the subsurface units encountered.

3.3.2 Surface Root Zone

Borings B-1 through B-6 were drilled in the grass-covered areas of the site. The root zone encountered was approximately 2 to 3 inches thick.

Boring B-7 was drilled in the paved area in front of the garage, which is located across the street and to the west of the main school building. The pavement at this location consists of 1.8 inches of AC underlain by 3.3 inches of aggregate base.

3.3.3 Undocumented Fill

Undocumented fill material was encountered in borings B-1 and B-5. The fill consists of medium stiff to stiff silt with varying amounts of sand. In boring B-1, which was drilled near the existing school building, the fill contains brick debris. The fill extends to depths of approximately 3 and 5 feet BGS in borings B-1 and B-5, respectively. The fill was likely the result of prior grading as part of development of the original school and generally consists of re-worked native soil. Laboratory testing indicates that the moisture content of a sample of the fill was approximately 25 percent at the time of our explorations.

3.3.4 Silt

Beneath the fill or at the ground surface, medium stiff to very stiff silt with varying amounts of sand was encountered in all explorations, with the exception of boring B-5 where the silt fill is underlain directly by the sand unit. The silt extends to depths ranging from approximately 4 to 6.5 feet BGS in the explorations where encountered. Laboratory testing indicates that the moisture content of the silt generally ranged between 22 and 30 percent at the time of our explorations.

3.3.5 Sand

Beneath the fill or the silt, all of the borings encountered sand with varying amounts of silt and gravel to the maximum depths explored (5.5 to 56.5 feet BGS). The sand is primarily medium dense to dense. In borings B-5 and B-7, loose sand was encountered. Laboratory testing indicates that the moisture content of the silt generally ranged between 10 and 30 percent at the time of our explorations.

3.3.6 Groundwater

Groundwater was not encountered in the borings during our exploration. However, soil samples were observed to be wet at a depth of approximately 50 feet BGS in boring B-4 during our exploration. Based on our review of water well logs on file with OWRD and projects completed in the site vicinity, groundwater is estimated to be greater than approximately 50 feet BGS. The depth to groundwater may fluctuate in response to seasonal changes, prolonged rainfall, changes in surface topography, and other factors not observed in this study.

3.4 INFILTRATION TESTING

Infiltration testing was completed to assist in the evaluation of potential stormwater infiltration facilities for the project. Specific stormwater infiltration plans were not known at the time of this report. We conducted infiltration testing at approximately 10.5 to 10 feet BGS in borings B-1 and B-5, respectively.

Representative samples were collected at the infiltration test depth for grain-size analysis. Table 1 presents a summary of infiltration test results and fines content determinations. The exploration logs and laboratory test results are presented in Appendix A.

Table 1. Infiltration Rates

Location	Depth (feet BGS)	Material	Infiltration Rate (inches/hour)	Fines Content[1] (percent)
B-1	10.5	SAND with silt, trace gravel	13	7
B-5	10	SAND with silt, minor gravel	10	11

1. Fines content: material passing a U.S. Standard No. 200 sieve.

The results of our infiltration testing indicate the infiltration is feasible in the sand. If built, we recommend that the installation of the infiltration facility be observed by a qualified geotechnical engineer to confirm that the soil conditions are consistent with our observations during our explorations. Confirmation infiltration testing should be completed after the system is built to verify actual infiltration capacity.

The infiltration rates provided above were measured rates with no factor of safety. Correction factors should be applied to the measured infiltration rates by the civil engineer during design to account for the degree of long-term maintenance and influent/pre-treatment control, as well as the potential for long-term clogging due to siltation and bio-buildup, depending on the proposed length, location, and type of infiltration facility. Infiltration systems should not be located directly adjacent to existing building basements.

4.0 CONCLUSIONS

Based on the results of our subsurface explorations and engineering analyses, it is our opinion that the site can be developed as proposed. The primary geotechnical considerations for the project are summarized in the Executive Summary. Our specific recommendations are provided in the following sections of this report.

5.0 DESIGN

5.1 GENERAL

The following sections provide our design recommendations for the project. All site preparation and structural fill should be prepared as recommended in the "Construction" section of this report.

5.2 SHALLOW FOUNDATIONS

5.2.1 General

Based on the results of our explorations and analysis, the proposed school building can be supported by conventional spread footings resting on granular pads underlying undisturbed native soil or structural fill overlying firm native soil. Approximately 3 to 5 feet of fill was encountered in two of our explorations. Foundations should not be established on undocumented fill, soft soil, or soil containing deleterious material. If present, this material should be removed and replaced and granular pads constructed.

The granular pads should be a minimum of 4 inches thick, increasing to a minimum of 6 inches thick during the wet winter months, and extend 6 inches beyond the margins of the footings for every foot excavated below the base grade of the footing. The granular pads should consist of imported granular material, as defined in the "Structural Fill" section of this report. The imported granular material should be compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557, or, as determined by one of our geotechnical staff, until well-keyed. We recommend that a member of our geotechnical staff observe the prepared footing subgrade.

5.2.2 Dimensions and Capacities

Continuous wall and isolated spread footings should be at least 18 and 24 inches wide, respectively. The bottom of exterior footings should be at least 18 inches below the lowest adjacent exterior grade. The bottom of interior footings should be established at least 12 inches below the base of the slab.

Footings bearing on subgrade prepared as recommended above should be sized based on an allowable bearing pressure of 2,500 psf. This is a net bearing pressure; the weight of the footing and overlying backfill can be ignored in calculating footing sizes. The recommended allowable bearing pressure applies to the total of dead plus long-term live loads and may be increased by 50 percent for short-term loads such as those resulting from wind or seismic forces.

5.2.3 Resistance to Sliding

Lateral loads on footings can be resisted by passive earth pressure on the sides of the structures and by friction on the base of the footings. Our analysis indicates that the available passive earth pressure for footings confined by native soil and structural fill is 300 pcf, modeled as an equivalent fluid pressure. Adjacent floor slabs, pavements, or the upper 12-inch depth of adjacent unpaved areas should not be considered when calculating passive resistance. The passive resistance should be reduced to 180 pcf below groundwater (50 feet BGS).

For footings in contact with native soil, a coefficient of friction equal to 0.30 may be used when calculating resistance to sliding. For footings in contact with granular fill, a coefficient of friction equal to 0.40 may be used when calculating resistance to sliding.

5.2.4 Settlement

For the foundation designed in accordance with the recommendations provided above, the total post-construction settlements should be less than 1 inch and differential settlement less than ½ inch.

5.2.5 Subgrade Observation

All footing and floor subgrades should be evaluated by a representative of GeoDesign to evaluate the bearing conditions. Observations should also confirm that all loose or soft material, organics, unsuitable fill, prior topsoil zones, and softened subgrades (if present) have been removed. Localized deepening of footing excavations may be required to penetrate deleterious material.

5.3 FLOOR SLABS

Satisfactory subgrade support for building floor slabs supporting up to 100 psf areal loading can be obtained on the existing undisturbed native silt or on structural fill. To help reduce moisture transmission and slab shifting, we recommend a minimum 6-inch-thick layer of floor slab base rock be placed and compacted over a subgrade that has been prepared in conformance with the "Site Preparation" section of this report. The floor slab base rock should meet the requirements in the "Structural Fill" section of this report and be compacted to at least 95 percent of ASTM D 1557.

While groundwater is unlikely to be encountered within the slab subgrade material, the native soil is fine grained and will tend to maintain a high moisture content. In the areas where moisture-sensitive floor slab and flooring will be installed, the installation of a vapor barrier is warranted in order to reduce the potential for moisture transmission through, and efflorescence growth on, the slab and flooring. In addition, flooring manufacturers often require vapor barriers to protect flooring and flooring adhesives and will warrant their product only if a vapor barrier is installed according to their recommendations.

We recommend that a vapor barrier be installed in all floor slab areas established less than 1 foot above existing grade. Several vapor barrier options are available. If Stego Wrap, or other system where the floor slab concrete is directly over the vapor barrier, is being considered, we recommend that the structural engineer be contacted to determine if the mix design for the concrete should be modified assuming the above-referenced construction sequence. Actual selection and design of an appropriate vapor barrier, if needed, should be based on discussions among members of the design team.

Slabs should be reinforced according to their proposed use and per the structural engineer's recommendations. Load-bearing concrete slabs may be designed assuming a modulus of subgrade reaction, k, of 120 psi per inch.

5.4 RETAINING STRUCTURES

5.4.1 Assumptions

Our retaining wall design recommendations are based on the following assumptions: (1) the walls consist of conventional, cantilevered retaining walls, (2) the walls are less than 8 feet in height, (3) the backfill is drained, and (4) the backfill has a slope flatter than 4H:1V. Re-evaluation of our recommendations will be required if the retaining wall design criteria for the project varies from these assumptions.

5.4.2 Wall Design Parameters

For unrestrained retaining walls, an active pressure of 35 pcf equivalent fluid pressure should be used for design. For embedded building walls, a superimposed seismic lateral force should be calculated based on a dynamic force of $7.0H^2$ pounds per lineal foot of wall, where H is the height of the wall in feet, and applied a distance of 0.6H from the base of the wall. Where retaining walls are restrained from rotation prior to being backfilled, a pressure of 55 pcf equivalent fluid pressure should be used for design.

If surcharges (e.g., retained slopes, building foundations, vehicles, steep slopes, terraced walls, etc.) are located within a horizontal distance from the back of a wall equal to twice the height of the wall, then additional pressures will need to be accounted for in the wall design. Our office should be contacted for appropriate wall surcharges based on the actual magnitude and configuration of the applied loads.

The base of the wall footing excavations should extend a minimum of 18 inches below lowest adjacent grade. The footing excavations should then be lined with a minimum 6-inch-thick layer of compacted imported granular material, as described in the "Materials" section of this report.

The wall footings should be designed in accordance with the guidelines provided in the appropriate portion of the "Shallow Foundations" section of this report.

5.4.3 Wall Drainage and Backfill

The above design parameters have been provided assuming that back-of-wall drains will be installed to prevent buildup of hydrostatic pressures behind all walls. If a drainage system is not installed, then our office should be contacted for revised design forces.

The backfill material placed behind the walls and extending a horizontal distance of ½H, where H is the height of the retaining wall, should consist of retaining wall select backfill placed and compacted in conformance with the "Structural Fill" section of this report.

A minimum 6-inch-diameter perforated collector pipe should be placed at the base of the walls. The pipe should be embedded in a minimum 2-foot-wide zone of angular drain rock that is wrapped in a drainage geotextile fabric and extends up the back of the wall to within 1 foot of the finished grade. The drain rock and drainage geotextile fabric should meet specifications provided in the "Materials" section of this report. The perforated collector pipes should discharge at an appropriate location away from the base of the wall. The discharge pipe(s) should not be tied directly into stormwater drain systems, unless measures are taken to prevent backflow into the drainage system of the wall.

Settlement of up to 1 percent of the wall height commonly occurs immediately adjacent to the wall as the wall rotates and develops active lateral earth pressures. Consequently, we recommend that construction of flatwork adjacent to retaining walls be postponed at least four weeks after backfilling of the wall, unless survey data indicates that settlement is complete prior to that time.

5.5 SEISMIC DESIGN CONSIDERATIONS

5.5.1 IBC Parameters

Based on our explorations, the following design parameters can be applied if the building is designed using the applicable provisions of the 2012 IBC and 2014 SOSSC. The parameters in Table 2 are appropriate for code-level seismic design. We performed a site-specific seismic study for this project. The results of this study, including liquefaction analyses, are presented in Appendix C. As discussed in Appendix C, liquefaction will not present a design concern for the project.

Table 2. IBC Seismic Design Parameters

Seismic Design Parameter	Short Period (T_s = 0.2 second)	1 Second Period (T_1 = 1.0 second)
MCE Spectral Acceleration, S	S_s = 0.89 g	S_1 = 0.37 g
Site Class	D	
Site Coefficient, F	F_a = 1.15	F_v = 1.65
Adjusted Spectral Acceleration, S_M	S_{MS} = 1.01 g	S_{M1} = 0.62 g
Design Spectral Response Acceleration Parameters, S_D	S_{DS} = 0.68 g	S_{DS} = 0.41 g
Design Spectral PGA	0.27 g	

5.6 PAVEMENTS

5.6.1 Design Assumptions and Parameters

As discussed in the "Introduction" section of this report, the current plan is to keep the existing parking lot that is located on the west side of the existing school building, to construct a new larger parking lot within the existing school footprint after the school building is demolished, and to construct a new parking lot at the northwest corner of SE Harlow Avenue and SE 8th Street. At the time this report was prepared, we had not been provided specific traffic counts. However, based on the site usage, we understand that traffic on the pavements will consist primarily of passenger cars and busses. Based on our review of the bus summary section of the Master Plan concept (Appendix D), the proposed school bus count consists of five large busses and three small busses. We have assumed that large busses are standard-sized school busses equivalent to a FHWA classification of 4 (two- to three-axle bus) and that small busses are equivalent to a FHWA classification of 5 (two-axle truck). Pavements should be installed on undisturbed native subgrade, scarified and re-compacted soil, or new engineered fills described in the "Site Preparation" and "Structural Fill" sections of this report.

Our pavement recommendations are based on the following assumptions:

- 20-year design life for AC.
- A resilient modulus of 20,000 psi was estimated for the aggregate base.
- Initial and terminal serviceability indices of 4.2 and 2.0 for AC.
- Reliability and standard deviation of 85 percent and 0.45 for AC, respectively.
- Structural coefficients of 0.42 and 0.10 for the AC and aggregate base, respectively.
- The number of busses and trucks indicated below, plus trucks are assumed to be 50 percent two-axle and 50 percent three-axle trucks. We have not included a growth factor. Analysis of alternative traffic assumptions can be completed if requested.
- A resilient modulus of 4,500 psi for subgrade prepared in accordance with the "Site Preparation" portion of the report.

If any of these assumptions are incorrect, our office should be contacted with the appropriate information so that the pavement designs can be revised.

5.6.2 Flexible AC Pavement Recommendations

Based on the traffic assumptions provided above, we recommend the AC pavement sections in Table 3.

Table 3. Recommended Standard Pavement Sections

Pavement Use	Busses per Day	Trucks per Day[1]	ESALs	AC Thickness (inches)	Aggregate Base Thickness (inches)
Automobile-Only Parking	0	0	10,000	3.0	9.0
Automobile-Only Drive Aisles	0	0	50,000	3.5	10.0
Bus Areas	8	10	80,000	4.0	10.0

Trucks assumed to be 50 percent two-axle and 50 percent three-axle trucks. Busses are assumed to be five standard busses and three small busses.

If the subgrade is cement amended to the thicknesses indicated below and the amended soil achieves a seven-day unconfined compressive strength of at least 100 psi, then the pavements can be constructed as recommended in Table 4.

Table 4. Recommended Pavement Sections Using Cement Amendment

Pavement Use	Busses per Day	Trucks per Day[1]	ESALs	AC Thickness (inches)	Aggregate Base Thickness (inches)	Cement Amendment[2] (inches)
Automobile Parking	0	0	10,000	3.0	4.0	12.0
Automobile-Only Drive Aisles	0	0	50,000	3.5	4.0	12.0
Bus Areas	8	10	80,000	4.0	6.0	12.0

1. Trucks assumed to be 50 percent two-axle and 50 percent three-axle trucks.
2. Assumes a minimum seven-day unconfined compressive strength of 100 psi.

All thicknesses are intended to be the minimum acceptable. The design of the recommended pavement section is based on the assumption that construction will be completed during an extended period of dry weather. Wet weather construction could require an increased thickness of aggregate base. In addition, to prevent strength loss during curing, cement-amended soil should be allowed to cure for at least four days prior to construction traffic or placing the base rock. Lastly, the amended subgrade should be protected with a minimum of 4 inches of base rock prior to construction traffic access.

Construction traffic should be limited to non-building, unpaved portions of the site or haul roads. Construction traffic should not be allowed on new pavements. If construction traffic is to be allowed on newly constructed road sections, an allowance for this additional traffic will need to be made in the design pavement section.

The AC, aggregate base, and cement amendment should meet the requirements outlined in the "Materials" section of this report.

5.7 DRAINAGE

Perched groundwater is typically encountered in the fine-grained soil at the site and the gravel with the fine-grained matrix, particularly during or after periods of heavy rainfall. Where possible, the finished ground surface around the building should be sloped away from the structure at a minimum 2 percent gradient for a distance of at least 5 feet. Downspouts or roof scuppers should discharge into a storm drain system that carries the collected water to an appropriate stormwater system. Trapped planter areas should not be created adjacent to the buildings without providing means for positive drainage (e.g., swales or catch basins).

5.8 PERMANENT SLOPES

Permanent cut or fill slopes on the site should not exceed a gradient of 2H:1V, unless specifically evaluated for stability. Slopes that will be maintained by mowing should not be constructed steeper than 3H:1V. Slopes should be planted with appropriate vegetation to provide protection against erosion as soon as possible after grading. Surface water runoff should be collected and directed away from slopes to prevent water from running down the face of the slope.

6.0 CONSTRUCTION

6.1 SITE PREPARATION

6.1.1 Demolition

Site development will include demolition and removal of existing structures or utilities that may be present underneath areas to be improved. Former USTs and other storage tanks, as well as UICs and drain field located within proposed structural areas should be decommissioned or abandoned per state and local regulations, and as recommended in our Phase I ESA (GeoDesign, 2016), prior to site development. Existing utilities that will interfere with earthwork or will be located beneath the proposed structure should be removed prior to construction.

In general, demolished material should be transported off site for disposal. Demolished concrete may be used in structural fill provided it is used as recommended in the "Recycled On-Site Material" section of this report.

Excavations should be performed as recommended in the "Construction Considerations" section of this report. Excavations left from demolition and removal of existing structures should be backfilled with compacted structural fill in accordance with the recommendations in the "Structural Fill" section of this report.

6.1.2 Stripping and Grubbing

The existing topsoil zone should be stripped and removed from all fill areas. Based on our explorations, the average depth of stripping in areas that are grass covered or landscaped will be approximately up to 3 inches, although greater stripping depths may be required to remove localized zones of loose or organic soil. The actual stripping depth should be based on field observations at the time of construction. Stripped material should be transported off site for disposal or used in landscaped areas.

Trees and shrubs should be removed from fill areas. In addition, root balls should be grubbed out to the depth of the roots, which could exceed 3 feet BGS. Depending on the methods used to remove the root balls, considerable disturbance and loosening of the subgrade could occur during site grubbing. We recommend that soil disturbed during grubbing operations be removed to expose firm, undisturbed subgrade. The resulting excavations should be backfilled with structural fill.

6.1.3 Fill Improvement

We observed approximately 3 to 5 feet of fill composed of silt with varying amounts of sand in borings B-1 and B-5, respectively. The fill in boring B-5, which was drilled near the existing school building, included brick debris. Within all proposed structural fill, pavement, at-grade floor slabs, and improvement areas; for a 5-foot margin beyond such areas; and where less than 3 feet of cut is required, we recommend that the surface foot of the stripped subgrade be removed and replaced with structural fill or the subgrade scarified and compacted as structural fill to a depth of 1 foot. Alternatively, the subgrade can be prepared as recommended in the "Construction Considerations" section of this report.

6.1.4 Subgrade Evaluation

Upon completion of stripping and subgrade stabilization, and prior to the placement of fill or pavement improvements, the exposed subgrade should be evaluated by proof rolling. The subgrade should be proof rolled with a fully loaded dump truck or similarly heavy, rubber-tired construction equipment to identify soft, loose, or unsuitable areas. A member of our geotechnical staff should observe the proof rolling to evaluate yielding of the ground surface. During wet weather, subgrade evaluation should be performed by probing with a foundation probe rather than proof rolling. Areas that appear soft or loose should be improved in accordance with subsequent sections of this report.

6.2 CONSTRUCTION CONSIDERATIONS

Based on the results of our exploration, our experience with the local soil conditions, and experience with subgrade under prior structures (especially building slabs and pavements), we anticipate that relatively soft, easily disturbed soil will be encountered under the existing building and pavements. The native soil is capable of supporting the design loads; however, it can easily be damaged during the demolition and construction activities. Methods to protect the subgrade from disturbance are provided below. If not carefully executed, site preparation, utility trench work, and excavations can create extensive soft areas and significant repair costs can result. Earthwork planning, regardless of the time of year, should include considerations for minimizing subgrade disturbance.

If construction occurs during or extends into the wet season, or if the moisture content of the surficial soil is more than a couple percentage points above optimum, site stripping and cutting may need to be accomplished using track-mounted equipment. Likewise, the use of granular haul roads and staging areas will be necessary for support of construction traffic during the rainy season or when the moisture content of the surficial soil is more than a few percentage points above optimum. The base rock thickness for pavement areas is intended to support post-construction design traffic loads. This design base rock thickness may not support construction traffic or pavement construction when the subgrade soil is wet. Accordingly, if construction is planned for periods when the subgrade soil is wet, staging and haul roads with increased thicknesses of base rock will be required. The amount of staging and haul road areas, as well as the required thickness of granular material, will vary with the contractor's sequencing of a project and type/frequency of construction equipment. Based on our experience, between 12 and 18 inches of imported granular material is generally required in staging areas and between 18 and 24 inches in haul roads areas. Stabilization material may be used as a substitute provided the top 4 inches of material consists of imported granular material. The actual thickness will depend on the contractor's means and methods and, accordingly, should be the contractor's responsibility. In addition, a geotextile fabric should be placed as a barrier between the subgrade and imported granular material in areas of repeated construction traffic. The imported granular material, stabilization material, and geotextile fabric should meet the specifications in the "Materials" section of this report.

As an alternative to thickened crushed rock sections, haul roads and utility work zones may be constructed using cement-amended subgrades overlain by a crushed rock wearing surface. If this approach is used, the thickness of granular material in staging areas and along haul roads can typically be reduced to between 6 and 9 inches. This recommendation is based on an assumed minimum unconfined compressive strength of 100 psi for subgrade amended to a depth of 12 to 16 inches. The actual thickness of the amended material and imported granular material will depend on the contractor's means and methods and, accordingly, should be the contractor's responsibility. Cement amendment is discussed in the "Materials" section of this report.

6.3 EXCAVATION

6.3.1 General

Conventional heavy earthmoving equipment in proper working condition should be capable of making necessary excavations of the on-site soil for site cuts and utilities. The sandier soil may be prone to raveling, and shoring will be required to maintain vertical excavation walls and protect adjacent facilities.

6.3.2 Trench Cuts and Trench Shoring

Trench cuts should stand near vertical to a depth of at least 4 feet. Open excavation techniques may be used to excavate trenches with depths between 4 and 8 feet, provided the walls of the excavation are cut at a slope of 1H:1V, groundwater seepage is not present, and with the understanding that some sloughing may occur. The trenches should be flattened if excessive sloughing occurs.

If box shoring is used, it should be understood that box shoring is a safety feature used to protect workers and does not prevent caving. If the excavations are left open for extended periods of time, then caving of the sidewalls may occur. The presence of caved material will limit the ability to properly backfill and compact the trenches. The contractor should be prepared to fill voids between the box shoring and the sidewalls of the trenches with sand or gravel before caving occurs.

If shoring is used, we recommend that the type and design of the shoring system be the responsibility of the contractor, who is in the best position to choose a system that fits the overall plan of operation. All excavations should be made in accordance with applicable OSHA and state regulations.

6.3.3 Dewatering

Shallow groundwater is not anticipated at the site and should not significantly impact excavation. It is possible that runoff stormwater or some shallow perched groundwater could be encountered during excavation. Water in trenches should be readily removed by pumping from a sump point and routing water to a suitable discharge point.

If groundwater is present at the base of utility excavations, we recommend placing up to 12 inches of stabilization material at the base of the excavation. Specifications for trench stabilization material are provided in the "Materials" section of this report.

6.3.4 Safety

All excavations should be made in accordance with applicable OSHA requirements and regulations of the state, county, and local jurisdiction. While this report describes certain approaches to excavation and dewatering, the contract documents should specify that the contractor is responsible for selecting excavation and dewatering methods, monitoring the excavations for safety, and providing shoring (as required) to protect personnel and adjacent structural elements.

6.4 MATERIALS

6.4.1 Structural Fill

6.4.1.1 General

Fill should be placed on subgrade that has been prepared in conformance with the "Site Preparation" section of this report. A variety of material may be used as structural fill at the site. However, all material used as structural fill should be free of organic matter or other unsuitable material and should meet the specifications provided in OSSC 00330 (Earthwork), OSSC 00400 (Drainage and Sewers), and OSSC 02600 (Aggregates), depending on the application. A brief characterization of some of the acceptable materials and our recommendations for their use as structural fill is provided below.

6.4.1.2 On-Site Soil

The material at the site should be suitable for use as general structural fill provided it is properly moisture conditioned; free of debris, organic material, and particles over 4 inches in diameter; and meets the specifications provided in OSSC 00330.12 (Borrow Material).

Based on laboratory test results, the moisture content of the shallow fine-grained soil generally varied from 22 to 30 percent at the time of our explorations. We estimate the optimum moisture content for compaction to be approximately 17 to 19 percent for the on-site soil. Moisture conditioning (primarily drying) will be required to use on-site soil for structural fill. Accordingly, extended dry weather will be required to adequately condition and place the soil as structural fill. It will be difficult, if not impossible, to adequately compact on-site soil during the rainy season or during prolonged periods of rainfall.

When used as structural fill, native soil should be placed in lifts with a maximum uncompacted thickness of 6 to 8 inches and compacted to not less than 92 percent of the maximum dry density for fine-grained soil and 95 percent of the maximum dry density for granular soil (sand or gravel), as determined by ASTM D 1557.

6.4.1.3 Imported Granular Material

Imported granular material used as structural fill should be pit- or quarry-run rock, crushed rock, or crushed gravel and sand and should meet the specifications provided in OSSC 00330.14 (Selected Granular Backfill) or OSSC 00330.15 (Selected Stone Backfill). The imported granular material should also be angular, fairly well graded between coarse and fine material, have less than 5 percent by dry weight passing the U.S. Standard No. 200 sieve, and have at least two fractured faces.

Imported granular material should be placed in lifts with a maximum uncompacted thickness of 12 inches and compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557. During the wet season or when wet subgrade conditions exists, the initial lift should be approximately 18 inches in uncompacted thickness and should be compacted by rolling with a smooth-drum roller without using vibratory action.

6.4.1.4 Stabilization Material

Stabilization material used in staging or haul road areas, or as trench stabilization material, should consist of 4- or 6-inch-minus pit- or quarry-run rock, crushed rock, or crushed gravel and sand and should meet the specifications provided in OSSC 00330.15 (Selected Stone Backfill). The material should have a maximum particle size of 6 inches, less than 5 percent by dry weight passing the U.S. Standard No. 4 sieve, and at least two mechanically fractured faces. The material should be free of organic matter and other deleterious material. Stabilization material should be placed in lifts between 12 and 24 inches thick and compacted to a firm condition.

6.4.1.5 Trench Backfill

Trench backfill placed beneath, adjacent to, and for at least 12 inches above utility lines (i.e., the pipe zone) should consist of well-graded granular material with a maximum particle size of 1½ inches and less than 10 percent by dry weight passing the U.S. Standard No. 200 sieve and should meet the specifications provided in OSSC 00405.13 (Pipe Zone Material). The pipe zone backfill should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department.

Within roadway alignments, the remainder of the trench backfill up to the subgrade elevation should consist of well-graded granular material with a maximum particle size of 2½ inches and

less than 10 percent by dry weight passing the U.S. Standard No. 200 sieve and should meet the specifications provided in OSSC 00405.14 (Trench Backfill; Class B, C, or D). This material should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department. The upper 3 feet of the trench backfill should be compacted to at least 95 percent of the maximum dry density, as determined by ASTM D 1557.

Outside of structural improvement areas (e.g., roadway alignments or building pads) trench backfill placed above the pipe zone may consist of general fill material that is free of organics and material over 6 inches in diameter and meets the specifications provided in OSSC 00405.14 (Trench Backfill; Class A, B, C, or D). This general trench backfill should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department.

6.4.1.6 Drain Rock

Drain rock should consist of angular, granular material with a maximum particle size of 2 inches and should meet the specifications provided in OSSC 00430.11 (Granular Drain Backfill Material). The material should be free of roots, organic matter, and other unsuitable material; have less than 2 percent by dry weight passing the U.S. Standard No. 200 sieve (washed analysis); and have at least two mechanically fractured faces. Drain rock should be compacted to a well-keyed, firm condition.

6.4.1.7 Aggregate Base Rock

Imported granular material used as base rock for building floor slabs and pavements should consist of ¾- or 1½-inch-minus material (depending on the application) and meet the requirements in OSSC 00641 (Aggregate Subbase, Base, and Shoulders). In addition, the aggregate should have less than 5 percent by dry weight passing the U.S. Standard No. 200 sieve. The aggregate base should be compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557.

6.4.1.8 Retaining Wall Select Backfill

Backfill material placed behind retaining walls and extending a horizontal distance of ½H, where H is the height of the retaining wall, should consist of select granular material that meets the specifications provided in OSSC 00510.12 (Granular Wall Backfill) or OSSC 00510.13 (Granular Structure Backfill).

The backfill should be placed and compacted as recommended for structural fill, with the exception of backfill placed immediately adjacent to walls. Backfill adjacent to walls should be compacted to a lesser standard to reduce the potential for generation of excessive pressure on the walls. Backfill located within a horizontal distance of 3 feet from the retaining walls should be compacted to approximately 90 percent of the maximum dry density, as determined by ASTM D 1557. Backfill placed within 3 feet of the wall should be compacted in lifts less than 6 inches thick using hand-operated tamping equipment (such as a jumping jack or vibratory plate compactor). If flatwork (slabs, sidewalk, or pavement) will be placed adjacent to the wall, we recommend that the upper 2 feet of fill be compacted to 95 percent of the maximum dry density, as determined by ASTM D 1557.

6.4.1.9 Cement Amendment

General

In conjunction with an experienced contractor, the on-site soil can be amended with portland cement to obtain suitable support properties. Successful use of soil amendment depends on the use of correct mixing techniques, soil moisture content, and amendment quantities. Soil amending should be conducted in accordance with the specifications provided in OSSC 00344 (Treated Subgrade). The amount of cement used during treatment should be based on an assumed soil dry unit weight of 110 pcf.

Stabilization

Specific recommendations based on exposed site conditions for soil amending can be provided if necessary. However, for preliminary design purposes, we recommend a target strength for cement-amended subgrade for building and pavement subbase (below base aggregate) soil of 100 psi. The amount of cement used to achieve this target generally varies with moisture content and soil type. It is difficult to predict field performance of soil to cement amendment due to variability in soil response, and we recommend laboratory testing to confirm expectations. Generally, 4 percent cement by weight of dry soil can be used when the soil moisture content does not exceed approximately 20 percent. If the soil moisture content is in the range of 25 to 35 percent, 6 to 8 percent by weight of dry soil is recommended. The amount of cement added to the soil may need to be adjusted based on field observations and performance. Moreover, depending on the time of year and moisture content levels during amendment, water may need to be applied during tilling to appropriately condition the soil moisture content.

For building and pavement subbase, we recommend assuming a minimum cement ratio of 6 percent (by dry weight). If the soil moistures are in excess of 30 percent, a cement ratio of 7 percent will likely be needed. Because of the higher organic content and moisture, we recommend using a cement ratio of 7 to 8 percent when stabilizing topsoil material for building and pavement subbase.

A minimum curing of four days is required between treatment and construction traffic access. Construction traffic should not be allowed on unprotected cement amended subgrade. To protect the cement-amended surfaces from abrasion or damage, the finished surface should be covered with 4 to 6 inches of imported granular material.

Treatment depths for building/pavement, haul roads, and staging areas are typically on the order of 12, 16, and 12 inches, respectively. The crushed rock typically becomes contaminated with soil during construction. Contaminated base rock should be removed and replaced with clean rock in pavement areas. The actual thickness of the amended material and imported granular material for haul roads and staging areas will depend on the anticipated traffic, as well as the contractor's means and methods, and accordingly, should be the contractor's responsibility.

Structural

On-site soil that would not otherwise be suitable for structural fill may be amended and placed as fill over a subgrade prepared in conformance with the "Site Preparation" section of this report. The cement ratio for general cement amended fill can generally be reduced by 1 percent (by dry

weight). Typically, a minimum curing of four days is required between treatment and construction traffic access. Consecutive lifts of fill may be treated immediately after the previous lift has been amended and compacted (e.g., the four-day wait period does not apply). However, where the final lift of fill is a building or roadway subgrade, then the four-day wait period is in effect.

Compaction
A static, sheepsfoot or segment pad roller with a minimum static weight of 40,000 pounds should be used for compaction of fine-grained soil followed by final compaction using a smooth-drum roller with a minimum applied lineal force of 700 pounds per inch. The amended soil should be compacted to at least 92 percent of the achievable dry density at the moisture content of the material as defined by ASTM D 1557.

Specifications Recommendations
We recommend that the following comments be included in the specifications for the project:

- Mixing Equipment
  - Use a pulverizer/mixer capable of uniformly mixing the cement into the soil to the design depth. Blade mixing will not be allowed.
  - Pulverize the soil-cement mixture such that 100 percent by dry weight passes a 1 inch sieve and a minimum of 70 percent passes a No. 4 sieve, exclusive of gravel or stone retained on these sieves. If water is required, the pulverizer should be equipped to inject water to a tolerance of ¼ gallon per square foot of surface area.
  - Use machinery that will not disturb the subgrade, such as using low-pressure "balloon" tires on the pulverizer/mixer vehicle. If subgrade is disturbed, the tilling/treatment depth shall extend the full depth of the disturbance.
  - Multiple "passes" of the tiller will likely be required to adequately blend the cement and soil mixture.

- Spreading Equipment
  - Use a spreader capable of distributing the cement uniformly on the ground to within 5 percent variance of the specified application rate.
  - Use machinery that will not disturb the subgrade, such as using low-pressure "balloon" tires on the spreader vehicle. If subgrade is disturbed, the tilling/treatment depth shall extend the full depth of the disturbance.

- Compaction Equipment
  - Use a static, sheepsfoot or segmented pad roller with a minimum static weight of 40,000 pounds for initial compaction of fine-grained soil (silt and clay), or an alternate approved by the geotechnical engineer.
  - Use a vibratory, smooth-drum roller with a minimum applied lineal force of 600 pounds per inch for final compaction, or an alternate approved by the geotechnical engineer.

6.4.1.10 Recycled On-Site Material
On-site AC, conventional concrete, and oversized rock may be used as fill if they are processed to meet the requirements for their intended use and the use of these materials do not result in an

environmental concern. Processing includes crushing and screening, grinding in place, or other methods to meet the meet the requirements for structural fill as described above. The processed material should be fairly well graded, contain no metal, organic, or other deleterious materials. The processed material may be mixed with on-site soil or imported fill to assist in achieving the gradation requirements. We recommend that processed recycled fill have the maximum particle sizes listed in Table 5.

Table 5. Processed Fill Maximum Particle Size

Depth of Placement[1]	Maximum Particle Size
0 to 2 feet	¾ inch
2 to 6 feet	2 inches
6 to 10 feet	4 inches
deeper than 10 feet	8 inches

1. below subgrade of structural element

Recycled on-site fill material should not be used within a depth of 2 feet from foundations, floor slabs, pavements, or other subsurface elements. We also caution that excavation through recycled material that is placed as structural may be difficult if a significant fraction of oversized particles is present. In addition, these excavations may also be prone to raveling and caving.

6.4.1.11 AC

The AC should be Level 2, ½-inch, dense ACP and compacted to 91 percent of the theoretical maximum density of the mix, as determined by AASHTO T 209. The minimum and maximum lift thickness should be 2.0 and 3.0 inches, respectively, for ½-inch ACP. Asphalt binder should be performance graded and conform to PG 64-22 or better.

6.4.1.12 Geotextile Fabric

Subgrade Geotextile Fabric

A subgrade geotextile fabric should be placed as a barrier between the subgrade and granular material in staging areas, haul road areas, or in areas of repeated construction traffic. The geotextile should meet the specifications provided in OSSC 02320 (Geosynthetics) for separation geotextiles (Table 02320-4) and be installed in accordance with OSSC 00350 (Geosynthetic Installation). The geotextile should have a Level "B" certification.

Drainage Geotextile Fabric

Drain rock, and other granular material used for subsurface drains, should be wrapped in a geotextile fabric that meets the specifications provided in OSSC 02320 (Geosynthetics) for drainage geotextiles (Table 02320-1) and be installed in accordance with OSSC 00350 (Geosynthetic Installation).

6.5 EROSION CONTROL

The site soil is susceptible to erosion; therefore, erosion control measures should be carefully planned and in place before construction begins. Surface water runoff should be collected and

directed away from slopes to prevent water from running down the slope face. Erosion control measures (such as straw bales, sediment fences, and temporary detention and settling basins) should be used in accordance with local and state ordinances.

7.0 OBSERVATION OF CONSTRUCTION

Satisfactory foundation and earthwork performance depends to a large degree on quality of construction. Sufficient observation of the contractor's activities is a key part of determining that the work is completed in accordance with the construction drawings and specifications. Subsurface conditions observed during construction should be compared with those encountered during the subsurface exploration. Recognition of changed conditions often requires experience; therefore, qualified personnel should visit the site with sufficient frequency to detect if subsurface conditions change significantly from those anticipated.

We recommend that GeoDesign be retained to observe earthwork activities, including stripping, proof rolling of the subgrade and repair of soft areas, footing subgrade preparation, performing laboratory compaction and field moisture-density tests, observing final proof rolling of the pavement subgrade and base rock, and asphalt placement and compaction.

8.0 LIMITATIONS

We have prepared this report for use by Reynolds School District, Day CPM Services, and members of the design and construction teams for the proposed project. The data and report can be used for bidding or estimating purposes, but our report, conclusions, and interpretations should not be construed as warranty of the subsurface conditions and are not applicable to other nearby building sites.

Exploration observations indicate soil conditions only at specific locations and only to the depths penetrated. They do not necessarily reflect soil strata or water level variations that may exist between exploration locations. If subsurface conditions differing from those described are noted during the course of excavation and construction, re-evaluation will be necessary.

The site development plans and design details were preliminary at the time this report was prepared. When the design has been finalized and if there are changes in the site grades or location, configuration, design loads, or type of construction for the buildings, and walls, the conclusions and recommendations presented may not be applicable. If design changes are made, we request that we be retained to review our conclusions and recommendations and to provide a written modification or verification.

The scope does not include services related to construction safety precautions, and our recommendations are not intended to direct the contractor's methods, techniques, sequences, or procedures, except as specifically described in our report for consideration in design.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted practices in this area at the time the report was prepared. No warranty, express or implied, should be understood.

We appreciate the opportunity to be of service to you. Please call if you have questions concerning this report or if we can provide additional services.

Sincerely,

GeoDesign, Inc.



Viola C. Lai, P.E., G.E.
Project Engineer



George Saunders, P.E., G.E.
Principal Engineer



REFERENCES

Evarts, Russell C. and O'Connor, Jim E., 2008, Geologic Map of the Camas Quadrangle, Clark County, Washington, and Multnomah County, Oregon, U. S. Geological Survey, Scientific Investigations Map 3017, 21p., scale 1:24,000.

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FIGURES

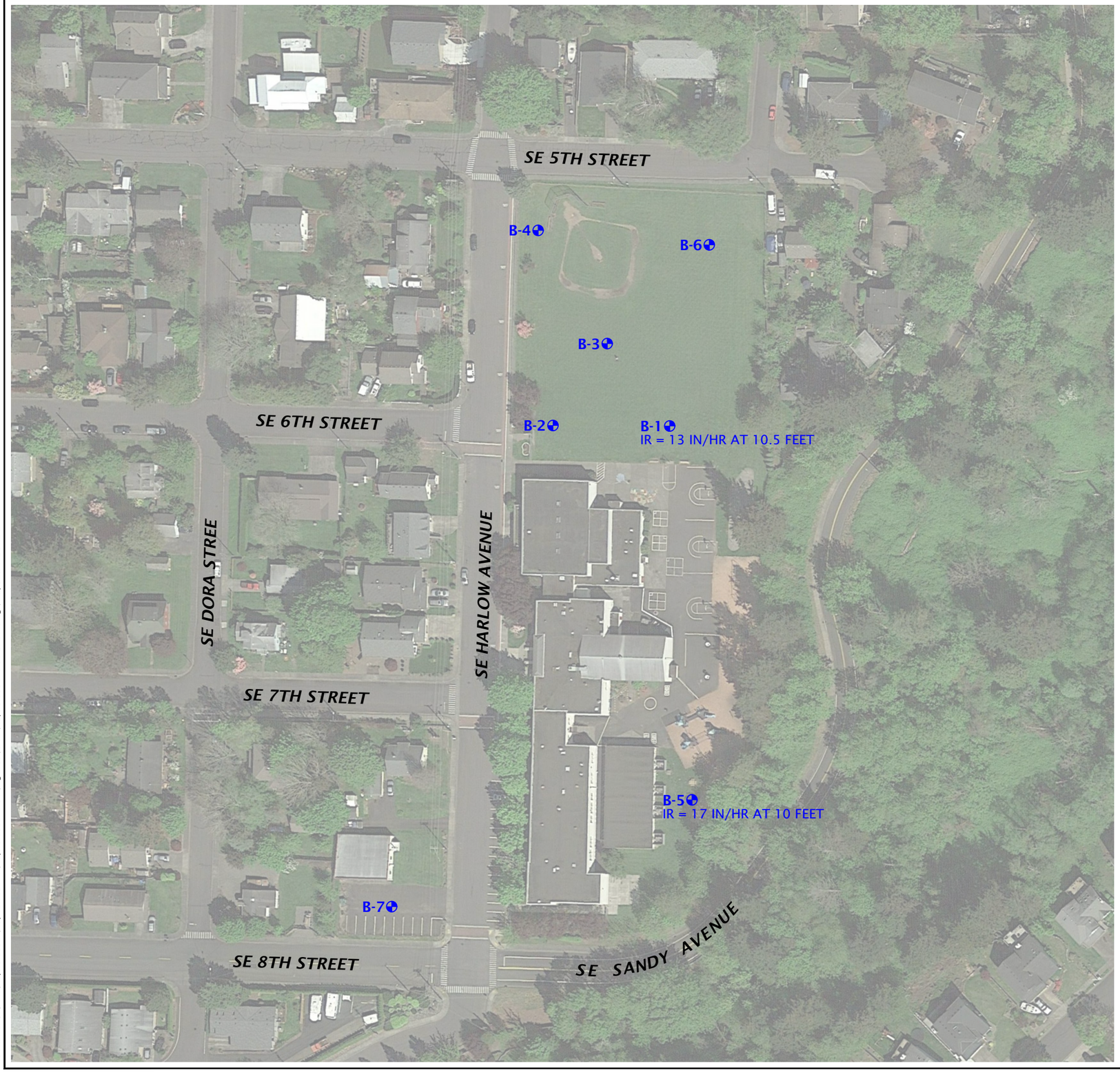


VICINITY MAP BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®

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REYNOLDSSD-4-01	**VICINITY MAP**	
MAY 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE 1**

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File Name: J:\M-R\ReynoldsSD\ReynoldsSD-4\ReynoldsSD-4-01\Figures\CAD\ReynoldsSD-4-01-VM01.dwg | Layout: FIGURE 1



LEGEND:

B-1	BORING
IR = 13 IN/HR AT 10.5 FEET	UNFACTORED INFILTRATION RATE

N

0 100 200

(SCALE IN FEET)

SITE PLAN BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®, APRIL 11, 2016

SITE PLAN

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE 2

REYNOLDSSD-4-01

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Printed By: aday | Print Date: 5/2/2016 8:39:29 AM
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APPENDIX A

APPENDIX A

FIELD EXPLORATIONS

GENERAL

We explored the site by drilling seven borings (B-1 through B-7) to depths of 5.5 to 56.5 feet BGS. The borings were drilled on March 23 and 24, 2016 using mud rotary and hollow-stem auger drilling methods by Western States Soil Conservation, Inc. of Hubbard, Oregon. The explorations were observed by a member of our geotechnical staff. The exploration logs are presented in this appendix.

Approximate locations of our explorations are shown on Figure 2. Exploration locations were chosen based on the preliminary site plans that were a part of the *Site Assessments & Master Plan Concepts* document provided to our office by Day CPM Services (see Appendix D). The locations of the explorations were determined in the field by pacing from existing site features. This information should be considered accurate only to the degree implied by the methods used.

SOIL SAMPLING

We obtained representative samples of the various soil encountered in the explorations for geotechnical laboratory testing. Soil samples were obtained from the borings using SPT sampling methods. SPTs were performed in general conformance with ASTM D 1586. The sampler was driven with a 140-pound hammer free-falling 30 inches. The number of blows required to drive the sampler 1 foot, or as otherwise indicated, into the soil is shown adjacent to the sample symbols on the exploration logs. Disturbed samples were obtained from the split barrel for subsequent classification and index testing. We obtained representative grab samples of the soil observed in the hand auger explorations. Sampling depths are shown on the exploration logs.

SOIL CLASSIFICATION

The soil samples were classified in accordance with the "Exploration Key" (Table A-1) and "Soil Classification System" (Table A-2), which are presented in this appendix. The exploration logs indicate the depths at which the soils or their characteristics change, although the change could be gradual. If the change occurred between sample locations, the depth was interpreted. Classifications are shown on the exploration logs.

The average efficiency of the automatic SPT hammer used by Western States Soil Conservation, Inc. was 85 percent. The calibration testing results are presented at the end of this appendix.

LABORATORY TESTING

CLASSIFICATION

The soil samples were classified in the laboratory to confirm field classifications. The laboratory classifications are shown on the exploration logs if those classifications differed from the field classifications.

MOISTURE CONTENT

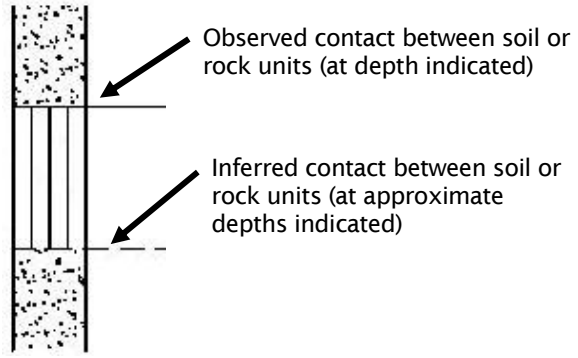
We tested the natural moisture content of selected samples obtained from the explorations in general accordance with ASTM D 2216. The natural moisture content is a ratio of the weight of the water to soil in a test sample and is expressed as a percentage. The test results are presented in this appendix.

GRAIN-SIZE TESTING

Grain-size testing was performed on selected soil samples to determine the distribution of soil particle sizes. The testing consisted of particle-size analysis completed in accordance with percent fines determination (percent passing the U.S. Standard No. 200 Sieve) completed in general accordance with the ASTM C 117 and ASTM D 1140 (P200). The test results are presented in this appendix.

SYMBOL	SAMPLING DESCRIPTION
	Location of sample obtained in general accordance with ASTM D 1586 Standard Penetration Test with recovery
	Location of sample obtained using thin-wall Shelby tube or Geoprobe® sampler in general accordance with ASTM D 1587 with recovery
	Location of sample obtained using Dames & Moore sampler and 300-pound hammer or pushed with recovery
	Location of sample obtained using Dames & Moore and 140-pound hammer or pushed with recovery
	Location of sample obtained using 3-inch-O.D. California split-spoon sampler and 140-pound hammer
	Location of grab sample
	Rock coring interval
	Water level during drilling
	Water level taken on date shown

Graphic Log of Soil and Rock Types



GEOTECHNICAL TESTING EXPLANATIONS

ATT	Atterberg Limits	PP	Pocket Penetrometer
CBR	California Bearing Ratio	P200	Percent Passing U.S. Standard No. 200 Sieve
CON	Consolidation		
DD	Dry Density	RES	Resilient Modulus
DS	Direct Shear	SIEV	Sieve Gradation
HYD	Hydrometer Gradation	TOR	Torvane
MC	Moisture Content	UC	Unconfined Compressive Strength
MD	Moisture-Density Relationship	VS	Vane Shear
OC	Organic Content	kPa	Kilopascal
P	Pushed Sample		

ENVIRONMENTAL TESTING EXPLANATIONS

CA	Sample Submitted for Chemical Analysis	ND	Not Detected
P	Pushed Sample	NS	No Visible Sheen
PID	Photoionization Detector Headspace Analysis	SS	Slight Sheen
		MS	Moderate Sheen
ppm	Parts per Million	HS	Heavy Sheen

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EXPLORATION KEY

TABLE A-1

RELATIVE DENSITY - COARSE-GRAINED SOILS

Relative Density	Standard Penetration Resistance	Dames & Moore Sampler (140-pound hammer)	Dames & Moore Sampler (300-pound hammer)
Very Loose	0 – 4	0 - 11	0 - 4
Loose	4 – 10	11 - 26	4 - 10
Medium Dense	10 – 30	26 - 74	10 - 30
Dense	30 – 50	74 - 120	30 - 47
Very Dense	More than 50	More than 120	More than 47

CONSISTENCY - FINE-GRAINED SOILS

Consistency	Standard Penetration Resistance	Dames & Moore Sampler (140-pound hammer)	Dames & Moore Sampler (300-pound hammer)	Unconfined Compressive Strength (tsf)
Very Soft	Less than 2	Less than 3	Less than 2	Less than 0.25
Soft	2 - 4	3 – 6	2 - 5	0.25 - 0.50
Medium Stiff	4 - 8	6 – 12	5 - 9	0.50 - 1.0
Stiff	8 - 15	12 – 25	9 - 19	1.0 - 2.0
Very Stiff	15 - 30	25 – 65	19 – 31	2.0 - 4.0
Hard	More than 30	More than 65	More than 31	More than 4.0

PRIMARY SOIL DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE-GRAINED SOILS (more than 50% retained on No. 200 sieve)	GRAVEL (more than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVELS (< 5% fines)	GW or GP	GRAVEL
		GRAVEL WITH FINES (≥ 5% and ≤ 12% fines)	GW-GM or GP-GM	GRAVEL with silt
			GW-GC or GP-GC	GRAVEL with clay
		GRAVELS WITH FINES (> 12% fines)	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND (50% or more of coarse fraction passing No. 4 sieve)	CLEAN SANDS (<5% fines)	SW or SP	SAND
		SANDS WITH FINES (≥ 5% and ≤ 12% fines)	SW-SM or SP-SM	SAND with silt
			SW-SC or SP-SC	SAND with clay
		SANDS WITH FINES (> 12% fines)	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOILS (50% or more passing No. 200 sieve)	SILT AND CLAY	Liquid limit less than 50	ML	SILT
			CL	CLAY
			CL-ML	silty CLAY
			OL	ORGANIC SILT or ORGANIC CLAY
		Liquid limit 50 or greater	MH	SILT
			CH	CLAY
			OH	ORGANIC SILT or ORGANIC CLAY
HIGHLY ORGANIC SOILS			PT	PEAT

MOISTURE CLASSIFICATION

Term	Field Test
dry	very low moisture, dry to touch
moist	damp, without visible moisture
wet	visible free water, usually saturated

ADDITIONAL CONSTITUENTS

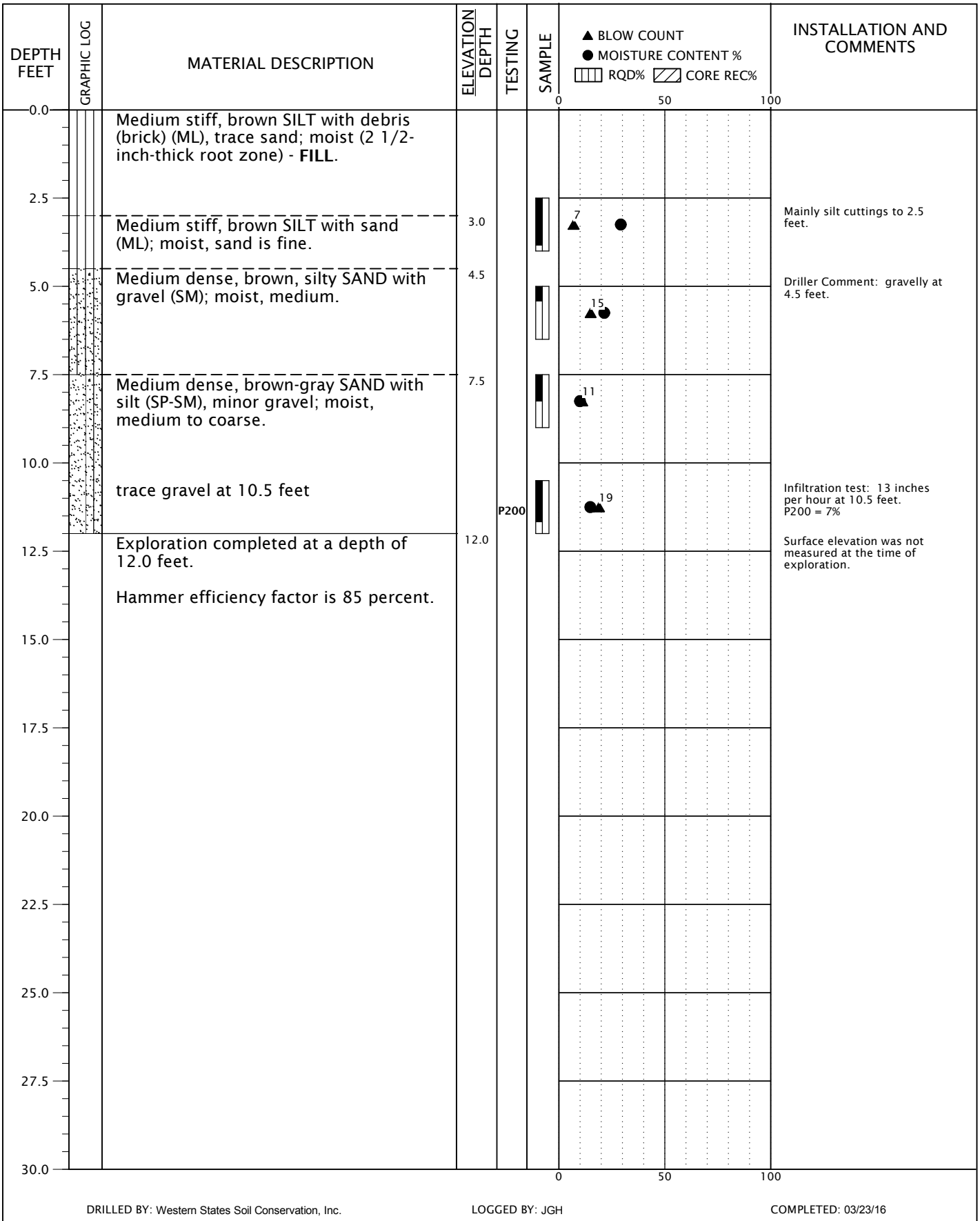
Secondary granular components or other materials such as organics, man-made debris, etc.

Percent	Silt and Clay In: Fine-Grained Soils	Silt and Clay In: Coarse-Grained Soils	Percent	Sand and Gravel In: Fine-Grained Soils	Sand and Gravel In: Coarse-Grained Soils
< 5	trace	trace	< 5	trace	trace
5 – 12	minor	with	5 – 15	minor	minor
> 12	some	silty/clayey	15 – 30	with	with
			> 30	sandy/gravelly	Indicate %

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SOIL CLASSIFICATION SYSTEM

TABLE A-2



DRILLED BY: Western States Soil Conservation, Inc.

LOGGED BY: JGH

COMPLETED: 03/23/16

BORING METHOD: hollow-stem auger (see document text)

BORING BIT DIAMETER: 8 inches

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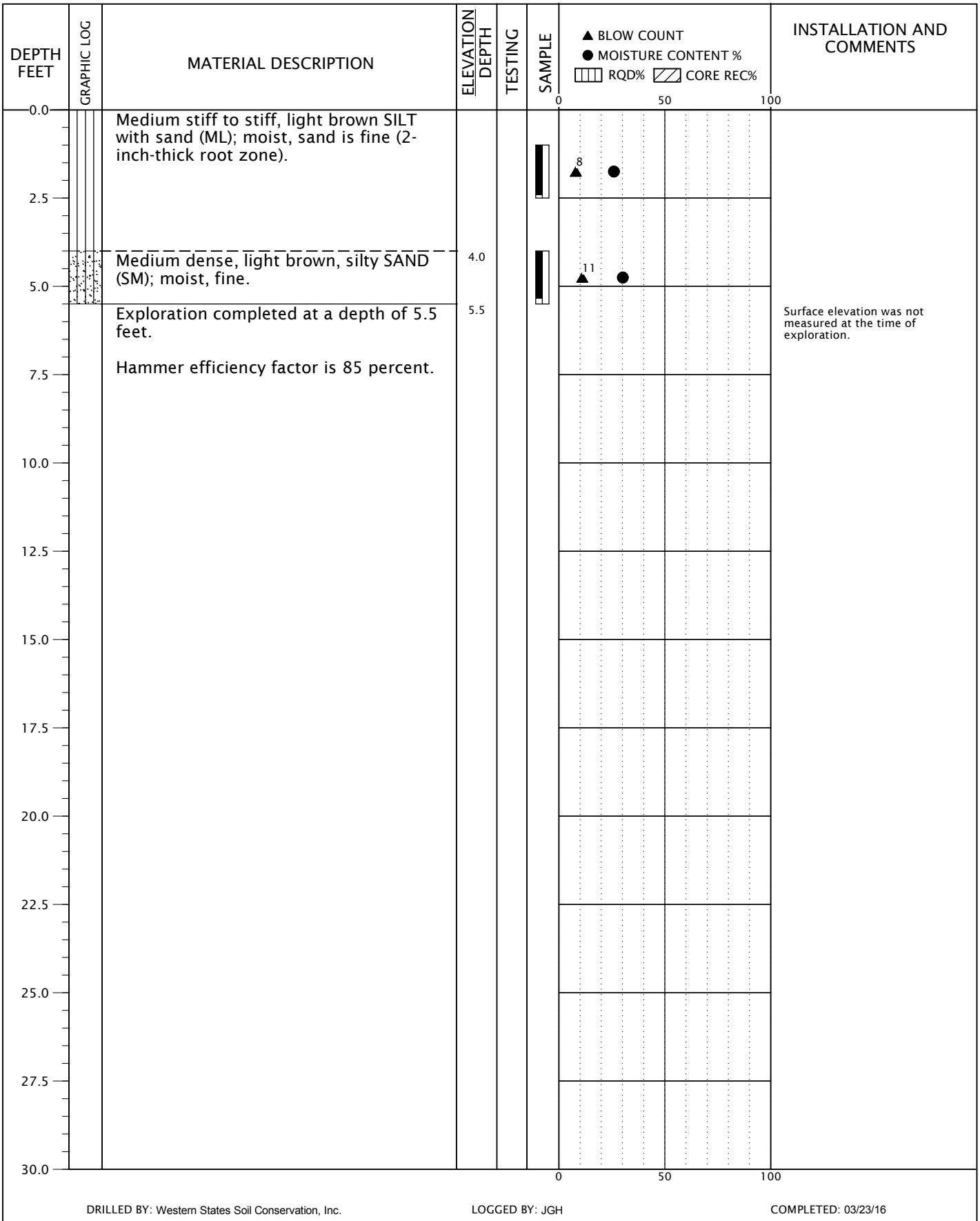
BORING B-1

MAY 2016

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-1

BORING LOG REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:RC:KT



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/23/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

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REYNOLDSSD-4-01

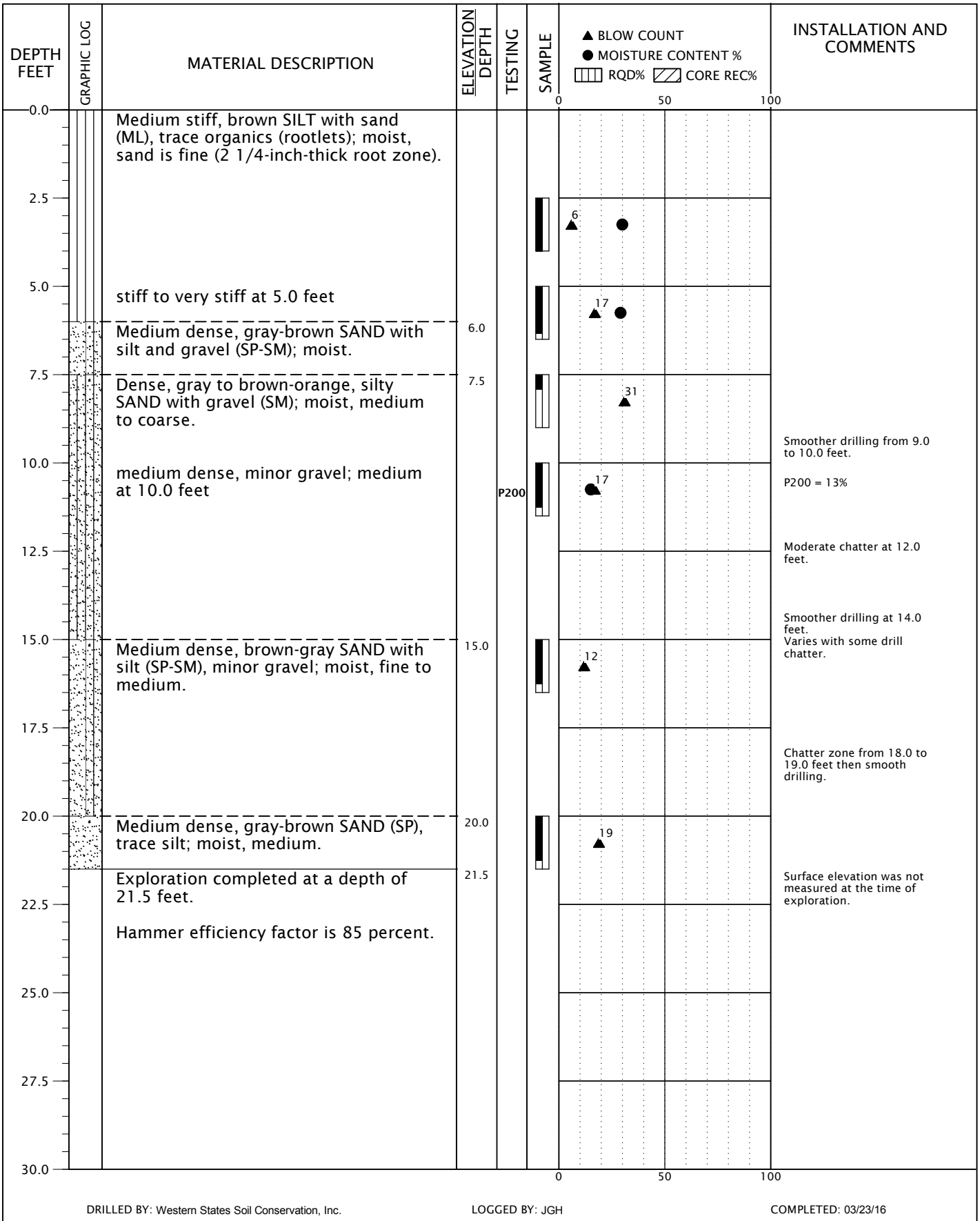
BORING B-2

MAY 2016

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-2

BORING LOG REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:RC:KT



DRILLED BY: Western States Soil Conservation, Inc.

LOGGED BY: JGH

COMPLETED: 03/23/16

BORING METHOD: hollow-stem auger (see document text)

BORING BIT DIAMETER: 8 inches

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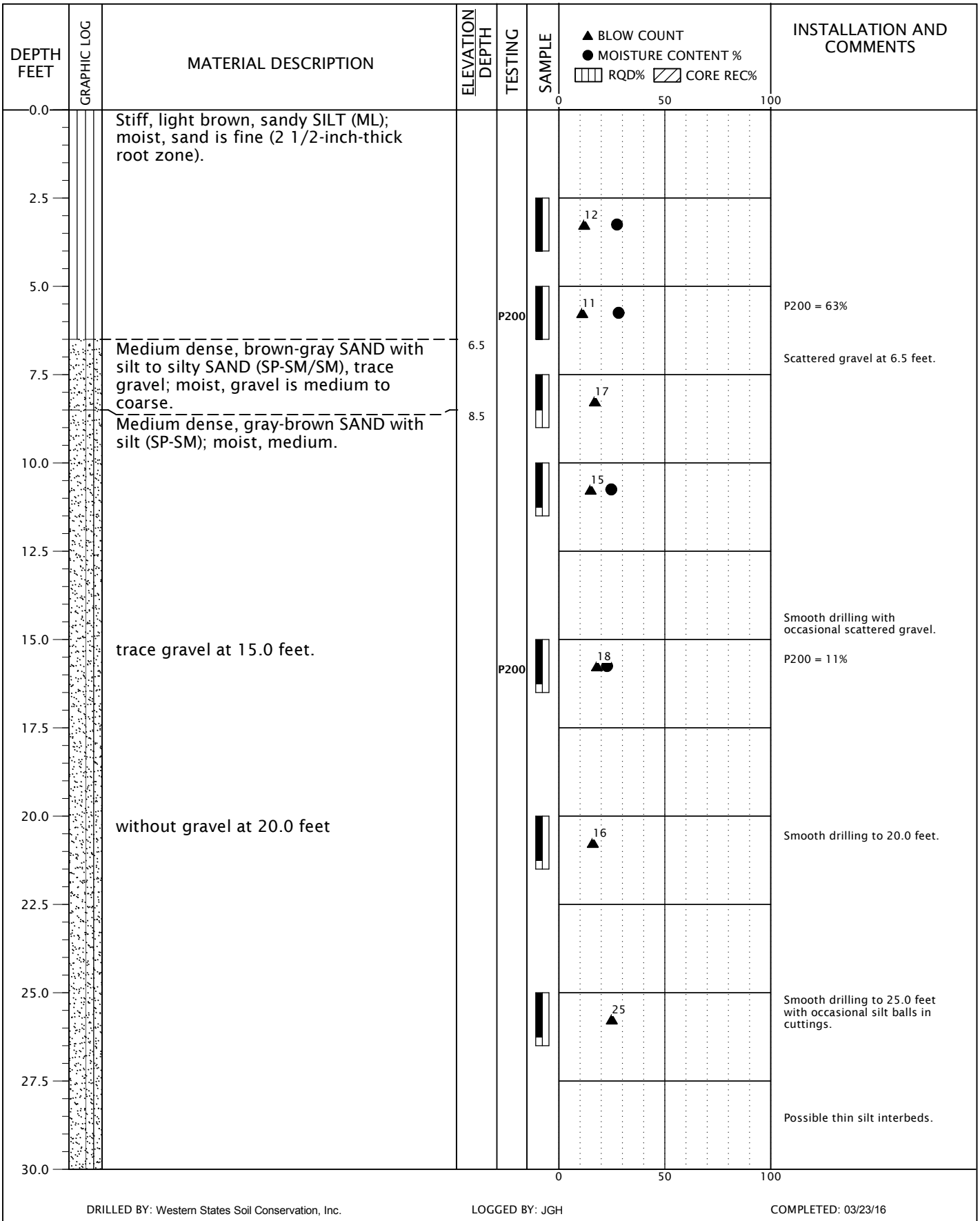
BORING B-3

MAY 2016

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-3

BORING LOG REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:RC:KT



DRILLED BY: Western States Soil Conservation, Inc.

LOGGED BY: JGH

COMPLETED: 03/23/16

BORING METHOD: mud rotary (see document text)

BORING BIT DIAMETER: 3 7/8 inches

BORING LOG REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:RC:KT

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BORING B-4

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-4

DEPTH FEET	MATERIAL DESCRIPTION	ELEVATION DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC% (0 50 100)	INSTALLATION AND COMMENTS
30.0	Medium dense, gray-brown, silty SAND (SM); moist, medium.		P200		▲ 26 ●	P200 = 14%
32.5						
35.0	medium dense to dense at 35.0 feet				▲ 30	
37.5						Occasional scattered gravel at 39.0 feet.
40.0	Dense, gray-brown SAND with silt (SP-SM); moist, medium.	40.0	P200		▲ 36 ●	P200 = 8%
42.5						
45.0					▲ 41	
47.5						
50.0						
52.5						
55.0	wet, stratified bed of silty SAND (up to 3 inches thick) at 55.0 feet				▲ 36	Smooth drilling to 55.0 feet.
	Exploration completed at a depth of 56.5 feet.	56.5				Surface elevation was not measured at the time of exploration.
57.5	Hammer efficiency factor is 85 percent.					
60.0						

DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/23/16

BORING METHOD: mud rotary (see document text) BORING BIT DIAMETER: 3 7/8 inches

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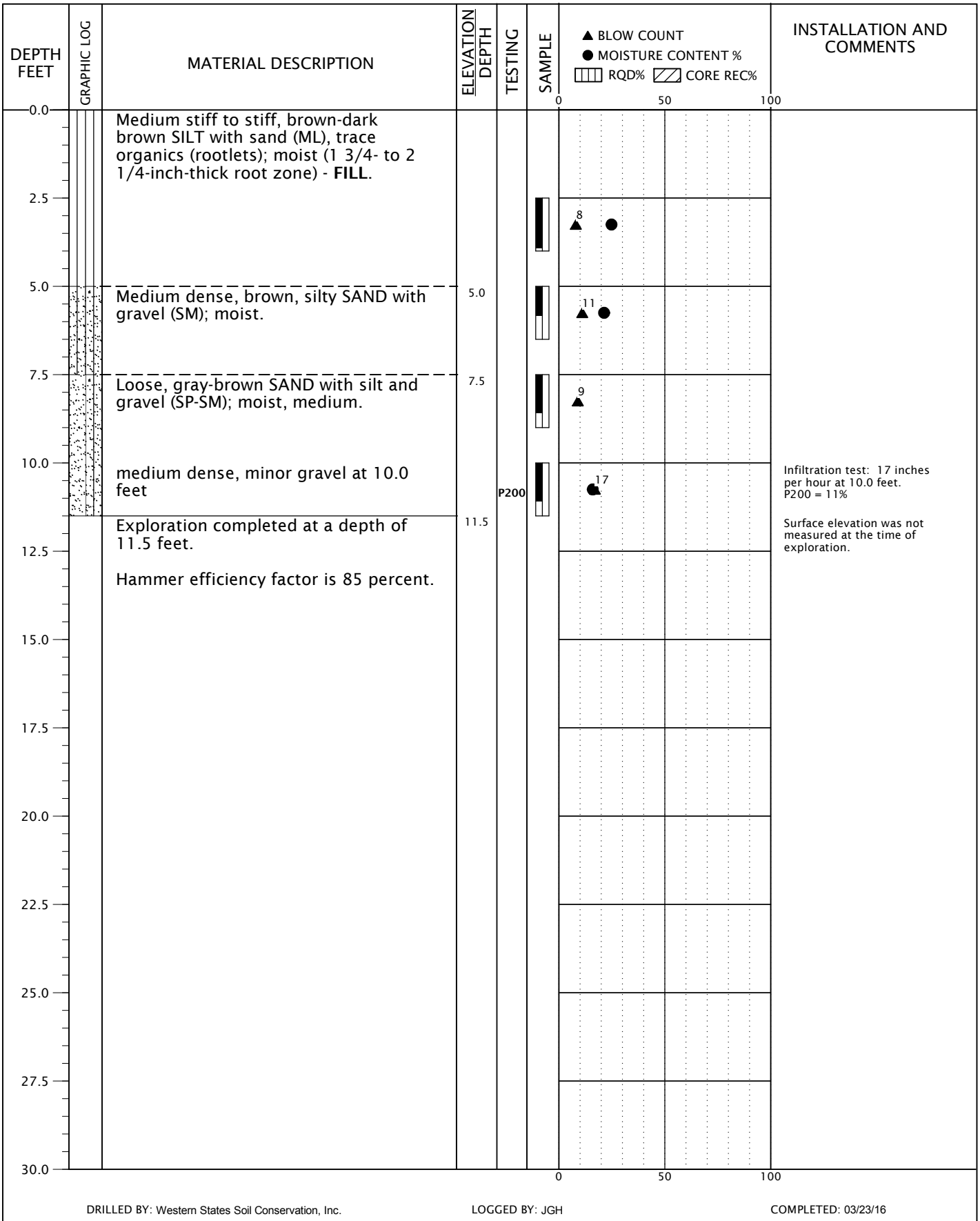
MAY 2016

BORING B-4
(continued)

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-4

BORING LOG REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:RC:KT



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/23/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

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REYNOLDSSD-4-01

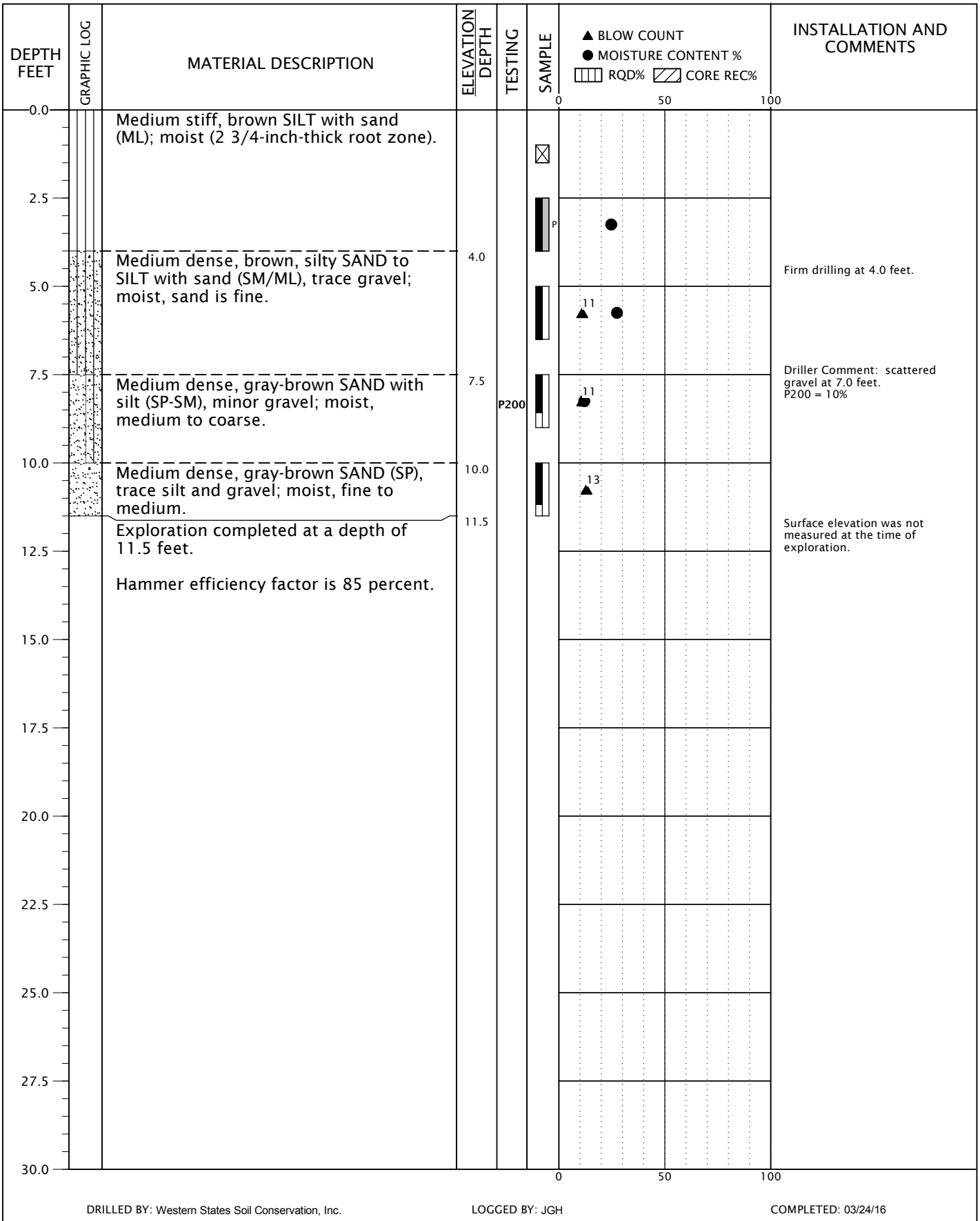
BORING B-5

MAY 2016

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-5

BORING LOG REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:RC:KT



DRILLED BY: Western States Soil Conservation, Inc.

LOGGED BY: JGH

COMPLETED: 03/24/16

BORING METHOD: hollow-stem auger (see document text)

BORING BIT DIAMETER: 8 inches

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-4-01

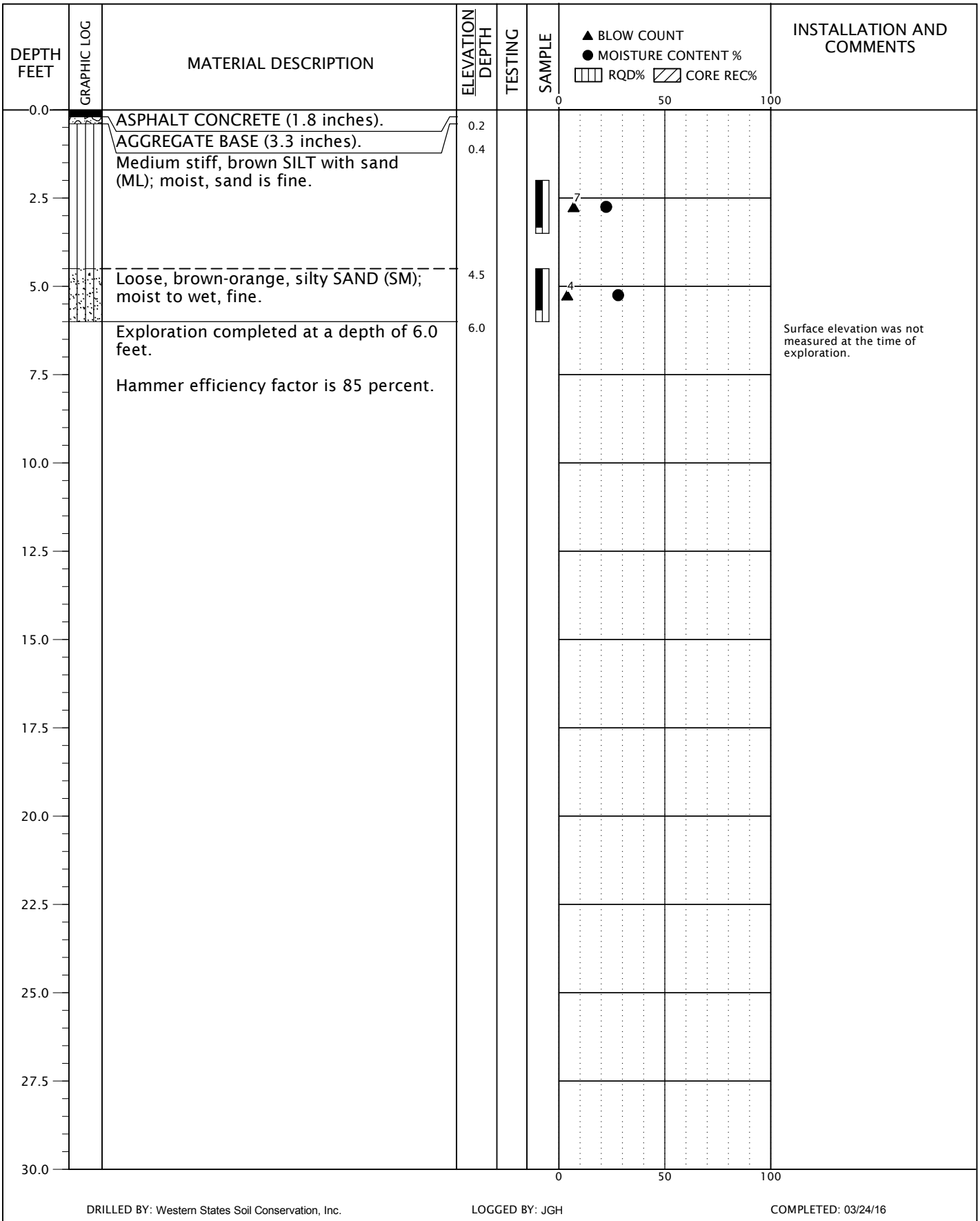
BORING B-6

MAY 2016

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-6

BORING LOG REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:RC:KT



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/24/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

BORING LOG REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:RC:KT

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REYNOLDSSD-4-01

BORING B-7

MAY 2016

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-7

SAMPLE INFORMATION			MOISTURE CONTENT (PERCENT)	DRY DENSITY (PCF)	SIEVE			ATTERBERG LIMITS		
EXPLORATION NUMBER	SAMPLE DEPTH (FEET)	ELEVATION (FEET)			GRAVEL (PERCENT)	SAND (PERCENT)	P200 (PERCENT)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
B-1	2.5		29							
B-1	5.0		21							
B-1	7.5		10							
B-1	10.5		15				7			
B-2	1.0		26							
B-2	4.0		30							
B-3	2.5		30							
B-3	5.0		29							
B-3	10.0		15				13			
B-4	2.5		27							
B-4	5.0		28				63			
B-4	10.0		25							
B-4	15.0		23				11			
B-4	30.0		21				14			
B-4	40.0		20				8			
B-5	2.5		25							
B-5	5.0		21							
B-5	10.0		16				11			
B-6	2.5		25							
B-6	5.0		27							
B-6	7.5		12				10			
B-7	2.0		22							
B-7	4.5		28							

LAB SUMMARY REYNOLDSSD-4-01-B1_7.GPJ GEODESIGN.GDT PRINT DATE: 4/29/16:KT

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REYNOLDSSD-4-01

SUMMARY OF LABORATORY DATA

MAY 2016

TROUTDALE ELEMENTARY SCHOOL
TROUTDALE, OR

FIGURE A-8

WSSC-7-01 - TEST BORING B-7 25FT
OP: WMN

TRACK RIG NO. 2
Date: 30-May-2015

AR: 1.41 in²
LE: 29.25 ft
WS: 16,807.9 f/s

SP: 0.492 k/ft³
EM: 30,000 ksi
JC: 0.00 []

ETR: Energy Transfer Ratio
EMX: Max Transferred Energy
CSB: Compression Stress at Bottom
BPM: Blows per Minute
FFS: Force Full Scale

DMX: Maximum Displacement
SFR: Skin friction w/ damping correction
MEX: Maximum Strain
VMX: Maximum Velocity

BL#	depth	BLC	ETR	EMX	CSB	BPM	FFS	DMX	SFR	MEX	VMX
	ft	bl/ft	(%)	k-ft	ksi	bpm	kips	in	kips	µE	f/s
10	25.16	6	81.3	0.3	0.0	48.5	60	1.09	0	957	13.6
12	25.48	6	87.0	0.3	0.0	49.1	60	0.82	0	973	14.4
14	25.81	6	83.8	0.3	0.0	49.0	60	0.67	0	915	14.0
16	26.13	6	86.2	0.3	0.0	48.7	60	0.57	0	986	14.4
18	26.45	6	83.8	0.3	0.0	48.7	60	0.53	0	974	14.1
20	26.77	6	85.7	0.3	0.0	48.7	60	0.56	0	950	14.3
22	27.10	6	85.0	0.3	0.0	48.8	60	0.57	0	942	14.2
24	27.42	6	86.7	0.3	0.0	48.3	60	0.61	0	985	14.5
26	27.74	6	84.7	0.3	0.0	48.6	60	0.57	0	968	14.4
28	28.06	6	86.4	0.3	0.0	48.2	60	0.82	0	941	14.5
30	28.39	6	84.0	0.3	0.0	48.3	60	0.56	0	939	14.0
40	30.00	6	85.1	0.3	0.0	48.5	60	1.03	0	900	14.8
42	30.27	7	81.9	0.3	0.0	48.8	60	0.59	0	893	13.8
44	30.54	7	82.0	0.3	0.0	48.8	60	0.97	0	912	13.8
46	30.81	7	85.4	0.3	0.0	48.5	60	0.59	0	936	14.3
48	31.08	7	81.7	0.3	0.0	48.6	60	0.49	0	873	13.7
50	31.35	7	85.7	0.3	0.0	48.3	60	0.55	0	920	14.0
52	31.62	7	84.4	0.3	0.0	48.3	60	0.56	0	928	14.0
54	31.89	7	84.0	0.3	0.0	48.4	60	0.48	0	865	13.9
56	32.16	7	88.3	0.3	0.0	48.4	60	0.89	0	914	14.5
58	32.43	7	82.2	0.3	0.0	48.5	60	0.38	0	937	13.9
60	32.70	7	84.1	0.3	0.0	48.7	60	1.12	0	858	13.5
62	32.97	7	86.7	0.3	0.0	48.4	60	0.93	0	883	14.1
64	33.24	7	83.0	0.3	0.0	48.6	60	0.95	0	929	13.9
66	33.51	7	81.1	0.3	0.0	48.3	60	0.36	0	911	13.7
82	35.67	7	84.7	0.3	0.0	48.7	60	0.66	0	809	16.1
84	35.83	13	82.9	0.3	0.0	48.7	60	0.53	0	780	15.2
86	35.98	13	84.6	0.3	0.0	48.8	60	0.67	0	796	15.6
88	36.14	13	84.7	0.3	0.0	48.5	60	0.75	0	790	15.8
90	36.30	13	83.8	0.3	0.0	48.2	60	0.55	0	794	16.1
92	36.46	13	85.8	0.3	0.0	48.5	60	0.43	0	867	17.1
94	36.61	13	87.3	0.3	0.0	48.6	60	1.18	0	858	17.0
96	36.77	13	82.1	0.3	0.0	48.5	60	0.38	0	803	15.5
98	36.93	13	83.0	0.3	0.0	48.5	60	0.67	0	782	15.6
100	37.09	13	83.9	0.3	0.0	48.7	60	0.37	0	861	16.8
102	37.24	13	85.3	0.3	0.0	48.5	60	0.37	0	882	17.1
104	37.40	13	83.7	0.3	0.0	48.4	60	0.37	0	879	16.7
106	37.56	13	84.7	0.3	0.0	48.3	60	0.37	0	848	17.4
108	37.72	13	84.8	0.3	0.0	48.3	60	0.38	0	855	16.8
110	37.87	13	84.2	0.3	0.0	48.4	60	0.37	0	869	16.6
112	38.03	13	86.9	0.3	0.0	48.3	60	0.45	0	883	17.5
114	38.19	13	86.1	0.3	0.0	48.5	60	0.44	0	869	17.3
116	38.35	13	84.3	0.3	0.0	48.4	60	0.83	0	858	16.2
118	38.50	13	84.8	0.3	0.0	48.3	60	0.38	0	860	16.4
120	38.66	13	85.2	0.3	0.0	48.3	60	0.68	0	839	16.1

WSSC-7-01 - TEST BORING B-7 25FT
OP: WMN

TRACK RIG NO. 2
Date: 30-May-2015

BL#	depth ft	BLC bl/ft	ETR (%)	EMX k-ft	CSB ksi	BPM bpm	FFS kips	DMX in	SFR kips	MEX µE	VMX f/s
122	38.82	13	84.2	0.3	0.0	48.4	60	0.37	0	872	16.7
124	38.98	13	84.7	0.3	0.0	48.4	60	0.75	0	836	16.6
126	39.13	13	83.4	0.3	0.0	48.3	60	0.48	0	834	16.0
137	40.00	13	84.9	0.3	0.0	50.8	60	0.56	0	925	14.9
139	40.16	13	85.4	0.3	0.0	50.3	60	0.54	0	917	14.7
141	40.31	13	84.1	0.3	0.0	50.4	60	0.50	0	914	14.3
143	40.47	13	87.5	0.3	0.0	50.3	60	0.83	0	933	14.6
145	40.63	13	86.8	0.3	0.0	50.6	60	0.85	0	929	14.1
147	40.79	13	86.4	0.3	0.0	50.6	60	0.66	0	948	14.6
149	40.94	13	84.2	0.3	0.0	50.7	60	0.44	0	929	14.4
151	41.10	13	85.2	0.3	0.0	50.5	60	0.45	0	933	14.0
153	41.26	13	85.8	0.3	0.0	50.5	60	0.56	0	924	14.4
155	41.42	13	86.6	0.3	0.0	50.4	60	0.63	0	936	14.5
157	41.57	13	85.7	0.3	0.0	50.8	60	0.55	0	926	14.7
159	41.73	13	86.8	0.3	0.0	50.6	60	0.51	0	930	14.4
161	41.89	13	85.6	0.3	0.0	50.5	60	0.55	0	899	13.7
163	42.05	13	87.3	0.3	0.0	50.5	60	0.92	0	918	13.8
165	42.20	13	85.5	0.3	0.0	50.1	60	0.86	0	923	13.5
167	42.36	13	85.1	0.3	0.0	50.8	60	0.71	0	922	13.8
		Average	85.0	0.3	0.0	49.0	60	0.64	0	892	15.0
		Std. Dev.	1.8	0.0	0.0	0.9	0	0.25	0	53	1.2

Total number of blows analyzed: 128

BL# Sensors

9-167 F3: [SPT B1] 217.8 (1.00); F4: [SPT B2] 218.9 (1.00); A3: [K0232] 290.0 (1.00); A4: [K0231] 325.0 (1.00)

BL# Comments

31 N: 7,9,14
40 LE = 34.20 ft; WC = 16,765.8 f/s
67 N: 7,10,18
82 LE = 39.42 ft; WC = 16,764.7 f/s
127 N: 13, 20, 26
137 LE = 44.10 ft; WC = 16,774.5 f/s
167 N: 8,15,16

Time Summary

Drive	27 seconds	5:31 PM - 5:32 PM (5/30/2015) BN 9 - 31
Stop	14 minutes 52 seconds	5:32 PM - 5:47 PM
Drive	33 seconds	5:47 PM - 5:47 PM BN 40 - 67
Stop	19 minutes 59 seconds	5:47 PM - 6:07 PM
Drive	55 seconds	6:07 PM - 6:08 PM BN 82 - 127
Stop	16 minutes 13 seconds	6:08 PM - 6:24 PM
Drive	35 seconds	6:24 PM - 6:25 PM BN 137 - 167

Total time [00:53:37] = (Driving [00:02:31] + Stop [00:51:06])

APPENDIX B

APPENDIX B

NEARBY WELL LOG

A nearby well log obtained from OWRD is presented in this appendix.

APPENDIX C

APPENDIX C

SITE-SPECIFIC SEISMIC HAZARD EVALUATION

INTRODUCTION

The information in this appendix summarizes the results of a site-specific seismic hazard evaluation for the proposed Troutdale Elementary School in Troutdale, Oregon. This seismic hazard evaluation was performed in accordance with the requirements of the 2014 SOSSC and ASCE 7-10.

SITE CONDITIONS

REGIONAL GEOLOGY

A detailed description of the geologic setting is presented in the main report.

SUBSURFACE CONDITIONS

A detailed description of site subsurface conditions is presented in the main report.

SEISMIC SETTING

Earthquake Source Zones

Three scenario earthquakes were considered for this study consistent with the local seismic setting. Two of the possible earthquake sources are associated with the CSZ, and the third event is a shallow local crustal earthquake that could occur in the North American plate. The three earthquake scenarios are discussed below.

Regional Events

The CSZ is the region where the Juan de Fuca Plate is being subducted beneath the North American Plate. This subduction is occurring in the coastal region between Vancouver Island and northern California. Evidence has accumulated suggesting that this subduction zone has generated eight great earthquakes in the last 4,000 years, with the most recent event occurring approximately 300 years ago (Weaver and Shedlock, 1991). The fault trace is mapped approximately 50 to 120 km off the Oregon Coast. Two types of subduction zone earthquakes are possible and considered in this study:

1. An interface event earthquake on the seismogenic part of the interface between the Juan de Fuca Plate and the North American Plate on the CSZ. This source is reportedly capable of generating earthquakes with a moment magnitude of between 8.5 and 9.0.
2. A deep intraplate earthquake on the seismogenic part of the subducting Juan de Fuca Plate. These events typically occur at depths of between 30 and 60 km. This source is capable of generating an event with a moment magnitude of up to 7.5.

Local Events

A significant earthquake could occur on a local fault near the site within the design life of the facility. Such an event would cause ground shaking at the site that could be more intense than the CSZ events, though the duration would be shorter. Figure C-1 shows the locations of faults

with potential Quaternary movement within a 20-mile radius of the site. Figure C-2 shows the interpreted locations of seismic events that occurred between 1833 and 1993 (USGS, 2010). The most significant faults in the site vicinity are the Lacamas Lake, Grant Butte and Damascus-Tickle Creek fault zones, and East bank fault. A discussion of these faults is provided below.

Lacamas Lake Fault

The Lacamas Lake fault is a northwest-trending, strike-slip fault or oblique-slip fault. It is estimated to have a 0.5 probability of activity and a maximum rupture length of up to 10 miles (Geomatrix, 1995). The slip rate is likely relatively low. There has been no recorded activity along the fault, although a 1989 earthquake may be associated with a subsurface section of this fault.

Grant Butte and Damascus-Tickle Creek Fault Zones

The Grant Butte fault zone is an east to northeast-trending fault within the Portland Basin (Geomatrix, 1995). It has been mapped as a series of randomly oriented faults with the Troutdale Formation. The Tickle Creek fault zone displaces Pliocene and Pleistocene sediments and is northwest trending. Relatively short faults comprise the complex. A probability of activity of 0.5 has been assigned to these fault zones with maximum rupture lengths equal to the total fault zone length.

East Bank Fault

The East Bank fault is a north to south-trending fault mapped west of the site. The fault location is inferred because it is completely covered by river sediment. The fault was mapped by magnetic patterns observed during past geophysical studies. There have been no known seismic events along this fault.

Local Event on an Unknown Fault

There are several other faults located within 20 miles of the site. The historical seismic record in Oregon indicates poor correlation between mapped surface faults and crustal earthquake epicenters. The current explanation for this difficulty is that secondary buried faults are responsible for most of the recorded seismic events near the study area. Therefore, a moderate earthquake could occur closer to the site than the nearest mapped fault. The magnitude of this event would likely be less than a moment magnitude $M_w = 6.0$.

Table C-1. Significant Crustal Faults

Source	Closest Mapped Distance[1] (km)	Mapped Length[1] (km)
Lacamas Lake fault	3.8	24
Grant Butte fault zone	5.5	10
Damascus-Tickle Creek fault zone	4.3	16
East Bank fault	15.1	29

1. reported by USGS (USGS, 2014)

SEISMIC RESPONSE ANALYSIS

RISK TARGETED BEDROCK SPECTRUM

We obtained a probabilistic bedrock spectrum for the site from the USGS national seismic mapping project. We determined the spectral accelerations for the outcropping bedrock response spectrum for periods ranging from 0 to 5 seconds. The response spectrum is consistent with a shear wave velocity equal to 760 meters per second in the upper 30 meters of the soil profile. ASCE 7-10 requires that the ground motions be defined in terms of the maximum direction of horizontal response. The maximum direction was adopted as the ground motion intensity parameter for use in lieu of explicit consideration of directional effects. The maximum horizontal response may reasonably be estimated by factoring the average response period by period dependent factors. The commentary to ASCE 7-10 recommends a factor of 1.1 at short periods, 1.3 at a period of 1 second, and 1.5 at 5 seconds and greater. They recommend interpolation between the periods.

The risk targeted bedrock spectrum, MCE_R, target bedrock spectrum was computed using Method 1 outlined in the ASCE 7-10 Section 21.2.1.1. A risk coefficient of $C_{RS} = 0.904$ was applied to the spectrum at periods of 0.2 second or less and a risk coefficient of $C_{R1} = 0.875$ was applied to the spectrum at periods greater than or equal to 1 second. Linear interpolation was used to compute risk coefficients between periods of 0.2 and 1.0 second. The intent of this is to achieve a 1 percent collapse of the structure in a 50-year period. Table C-2 presents a summary of values used to compute the MCE_R target bedrock response spectrum.

Table C-2. Risk Targeted Bedrock Spectrum

Period (seconds)	MCE Target Bedrock Spectral Acceleration (g)	Maximum Direction Factor	C_R	MCE_R Target Bedrock Spectral Acceleration (g)
0.0	0.3854	1.1	0.904	0.3832
0.1	0.8067	1.1	0.904	0.8022
0.2	0.9099	1.1	0.904	0.9048
0.3	0.7711	1.125	0.900	0.7811
0.5	0.5900	1.175	0.894	0.6198
1.0	0.3358	1.3	0.875	0.3820
2.0	0.1654	1.35	0.875	0.1954
3.0	0.0907	1.4	0.875	0.1111
4.0	0.05733	1.45	0.875	0.0727
5.0	0.03627	1.5	0.875	0.0476

BASE GROUND MOTIONS

Six recorded base ground motions were selected to represent the local seismic setting. We considered faulting mechanism, magnitude, and distance to recording station. Ground motions at the site are controlled by a crustal event and the CSZ interface event. We selected three

acceleration time histories to represent each of these seismic sources as input for the seismic response analysis. Table C-3 provides the ground motions selected for this study.

Table C-3. Selected Ground Motions

Ground Motion/Year/Recording Station	Magnitude	Distance (km)	Component
Crustal Records			
Imperial Valley/El Centro Array #8	6.53	5.6	140
Loma Prieta/Saratoga – Aloha Ave.	6.93	8.5	00
Nahanni, Canada 1985/Site 1	6.76	9.6	00
Subduction Zone Records			
Valparaiso 1985/Pichilemu	7.8	80	90
Michoacan 1985/La Union	8.0	84	N00W
Tohoku 2011 - TKC	9.0	106.9	004

SITE CONDITION MODELING

We determined acceleration response spectra for the postulated scenarios discussed above by performing a site-specific seismic response analysis. An equivalent linear seismic response analysis as described in ASCE 7-10 Section 21.1.2. The site response analysis was performed using the SHAKE 91+ module of the EZ-FRISK 8.0 software package.

The input soil model used in our analysis is based on the findings of our subsurface exploration program. A detailed description of site subsurface conditions is provided in the main report. We reviewed the site geology and nearby well logs for an understanding of the deep soil profile at the site. A well log near the site is presented in Appendix B. Shear wave velocities for the soils were estimated using SPT blow count and shear wave velocity correlations, as well as shear wave velocity measurements documented in similar geologic units (Palmer et al., 2004). Table C-4 provides a summary of the soil model used in our analysis. The acceleration response spectra produced by our equivalent linear seismic response analysis is presented on Figure C-3.

Table C-4. Input Soil Profile

Depth Interval (feet BGS)	Subsurface Unit	Shear Wave Velocity (feet per second)	Modulus Reduction Curve	Damping Curve
0 to 5	Medium Stiff to Stiff Silt	600	Vucetic and Dobry, 1991	Vucetic and Dobry, 1991
5 to 70	Medium Dense Sand	850 to 1,000	Sand (Seed & Idriss)	Sand (Seed & Idriss) Average
70 to 100	Medium Dense to Dense Gravel	1,100 to 1,200	Gravel (Seed et al. 1986)	Gravel (Seed et al. 1986)
100 to 150[1]	Dense to Very Dense Gravel	1,500 to 1,800	Gravel (Seed et al. 1986)	Gravel (Seed et al. 1986)

1. Input ground motion applied at base of this layer.

DETERMINISTIC MCE_R RESPONSE SPECTRUM

The deterministic approach considers the maximum ground acceleration that may occur at the site as a result of a characteristic earthquake on all known active faults in the region. ASCE 7-10 Section 21.2.2 requires that the spectral response at each period be calculated as an 84th percentile 5 percent damped spectral response acceleration in the direction of maximum horizontal response. However, the lower limit is computed in accordance with Figure 21.2-1 in ASCE 7-10, where F_a and F_v are determined using Tables 11.4-1 and 11.4-2 in ASCE 7-10. Figure C-4 shows the deterministic lower limit as prescribed by ASCE 7-10 Section 21.2.2.

SITE-SPECIFIC MCE_R RESPONSE SPECTRUM

As outlined in ASCE 7-10 Section 21.2.3, the site-specific MCE_R shall be taken as the lesser of the probabilistic MCE_R and the deterministic MCE_R. Figure C-4 shows the site-specific design response spectrum.

DESIGN RESPONSE SPECTRUM

ASCE 7-10 Section 21.3 states that the site-specific MCE_R response spectrum is reduced to two-thirds of the acceleration at any period. However, the lower bound for design ground motions is 80 percent of the generalized response spectrum as outlined in ASCE 7-10 Section 11.4.5.

DESIGN ACCELERATION PARAMETERS

To develop the final design response spectrum, the lesser of the values obtained from the probabilistic MCE and the deterministic MCE are taken at each period. The parameter S_{DS} is taken from the site-specific response spectrum at a period of 0.2 second but shall not be smaller than 90 percent of the peak spectral acceleration taken at any period larger than 0.2 second. The parameter S_{D1} is taken as the greater of the spectral acceleration at 1 second or two times the acceleration at 2 seconds. Figure C-5 shows the design response spectrum.

GEOLOGIC HAZARDS

In addition to ground shaking, site-specific geologic conditions can influence the potential for earthquake damage. Deep deposits of loose or soft alluvium can amplify ground motions, resulting in increased seismic loads on structures. Other geologic hazards are related to soil failure and permanent ground deformation. Permanent ground deformation could result from liquefaction, lateral spreading, landsliding, and fault rupture. The following sections provide additional discussion regarding potential seismic hazards that could affect the proposed development.

FAULT SURFACE RUPTURE

There are no mapped potentially active faults adjacent to or underlying the site. The nearest fault is mapped at least 3.8 miles from the site. Therefore, it is our opinion that the risk of fault rupture at the site is low.

LIQUEFACTION

Liquefaction is caused by a rapid increase in pore water pressure that reduces the effective stress between soil particles to near zero. Granular soil, which relies on interparticle friction for strength, is susceptible to liquefaction until the excess pore pressures can dissipate. In general, loose, saturated sand soil with low silt and clay content is the most susceptible to liquefaction. Silty soil with low plasticity is moderately susceptible to liquefaction under relatively higher levels of ground shaking. The soil encountered during our subsurface exploration is not susceptible to liquefaction under design levels of ground shaking.

LATERAL SPREAD

Lateral spread is a liquefaction-related seismic hazard. Development areas subject to lateral spreading are typically gently sloping or flat sites underlain by liquefiable sediments adjacent to an open face, such as riverbanks. Liquefied soil adjacent to open faces may "flow" in that direction, resulting in surface cracking and lateral displacement towards the open face (i.e., riverbank). The magnitude of lateral spread decreases with distance from the open face. Lateral spreading is evaluated using procedures first developed by Bartlett and Youd and published in 1992. Since the site is not near an open face and has low susceptibility to liquefaction, lateral spreading is expected to be negligible at this site.

GROUND MOTION AMPLIFICATION

Soil capable of significantly amplifying ground motions beyond the levels determined by our site-specific seismic response analysis was not encountered during our subsurface investigation program. The main report provides a detailed description of the subsurface conditions encountered. We conclude the level of amplification determined by our response analysis is appropriate and the facility can be designed using the levels of ground shaking prescribed by the IBC.

LANDSLIDE

Earthquake-induced landsliding generally occurs in steeper slopes comprised of relatively weak soil deposits. The site is relatively flat, with low topographic relief; therefore, landslides do not present a risk at the site.

SETTLEMENT

Settlement due to earthquakes is most prevalent in relatively deep deposits of dry, clean sand. We do not anticipate that significant settlement in addition to liquefaction-induced settlement will occur during design levels of ground shaking.

SUBSIDENCE/UPLIFT

Subduction zone earthquakes can cause vertical tectonic movements. The movements reflect coseismic strain release accumulation associated with interplate coupling in the subduction zone. Based on our review of the literature, the locked zone of the CSZ is located in excess of 60 miles from the site. Consequently, we do not anticipate that subsidence or uplift is a significant design concern.

LURCHING

Lurching is a phenomenon generally associated with very high levels of ground shaking, which cause localized failures and distortion of the soil. The anticipated ground accelerations shown on Figure C-3 are below the threshold required to induce lurching of the site soil.

SEICHE AND TSUNAMI

The site is inland and elevated away from tsunami inundation zones and away from large bodies of water that may develop seiches. Seiches and tsunamis are not considered a hazard in the site vicinity.

LIMITATIONS

We have prepared this seismic hazard study for use by the design and construction team for the proposed Troutdale Elementary School. The conclusions presented in this report are based on the data available at the time this report was written.

Our seismic hazard study report, conclusions, and interpretations should not be construed as a warranty of subsurface conditions and earthquake ground motions. We have interpreted subsurface conditions based on our exploration and review of available geologic information. The design earthquakes and base rock accelerations referred to are based on review of available data, literature, and our previous experience.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted practices in this area at the time the report was prepared. No warranty or other conditions, express or implied, should be understood.

REFERENCES

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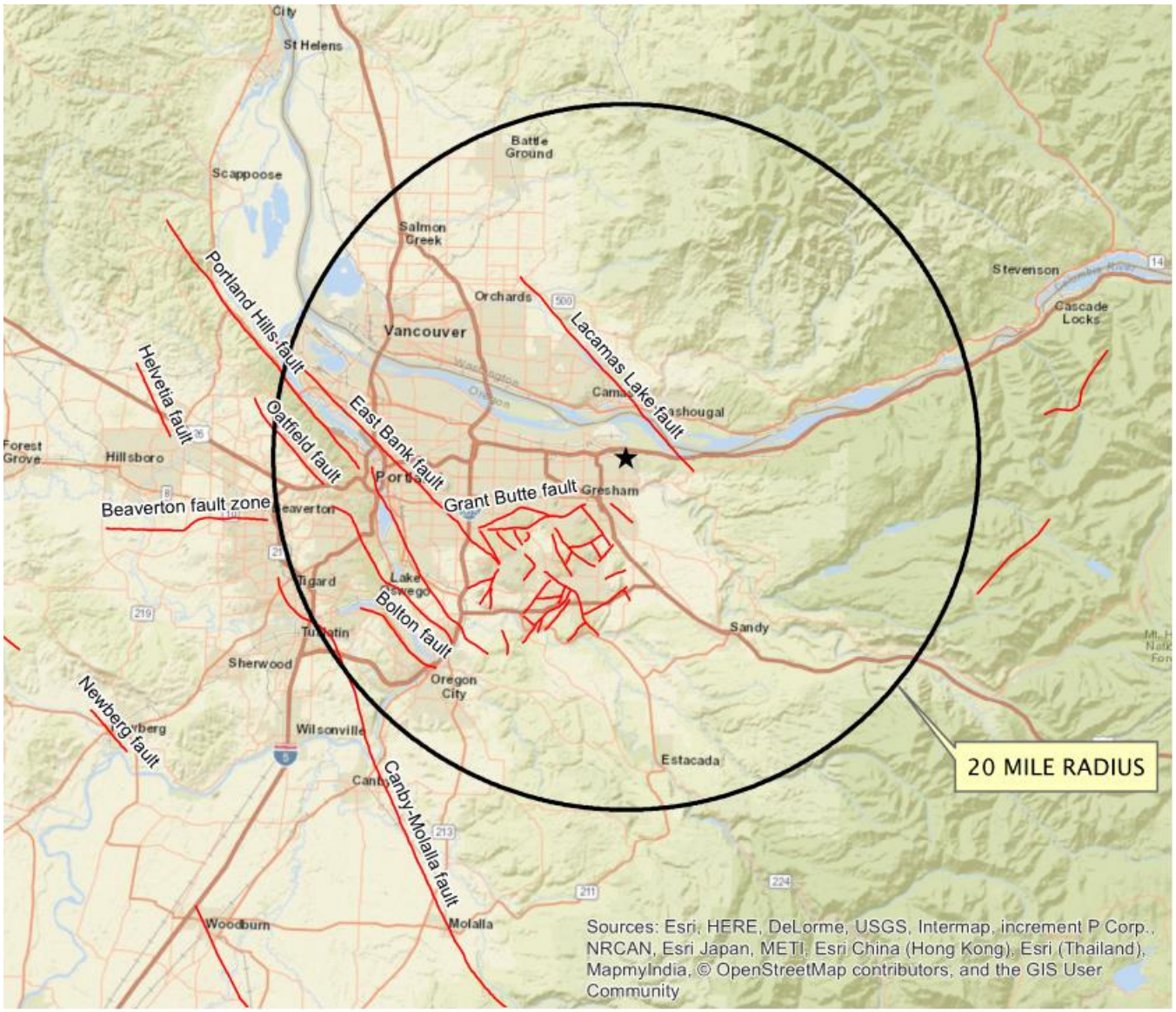
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LEGEND

★ SITE LOCATION

QUATERNARY FAULTS

N

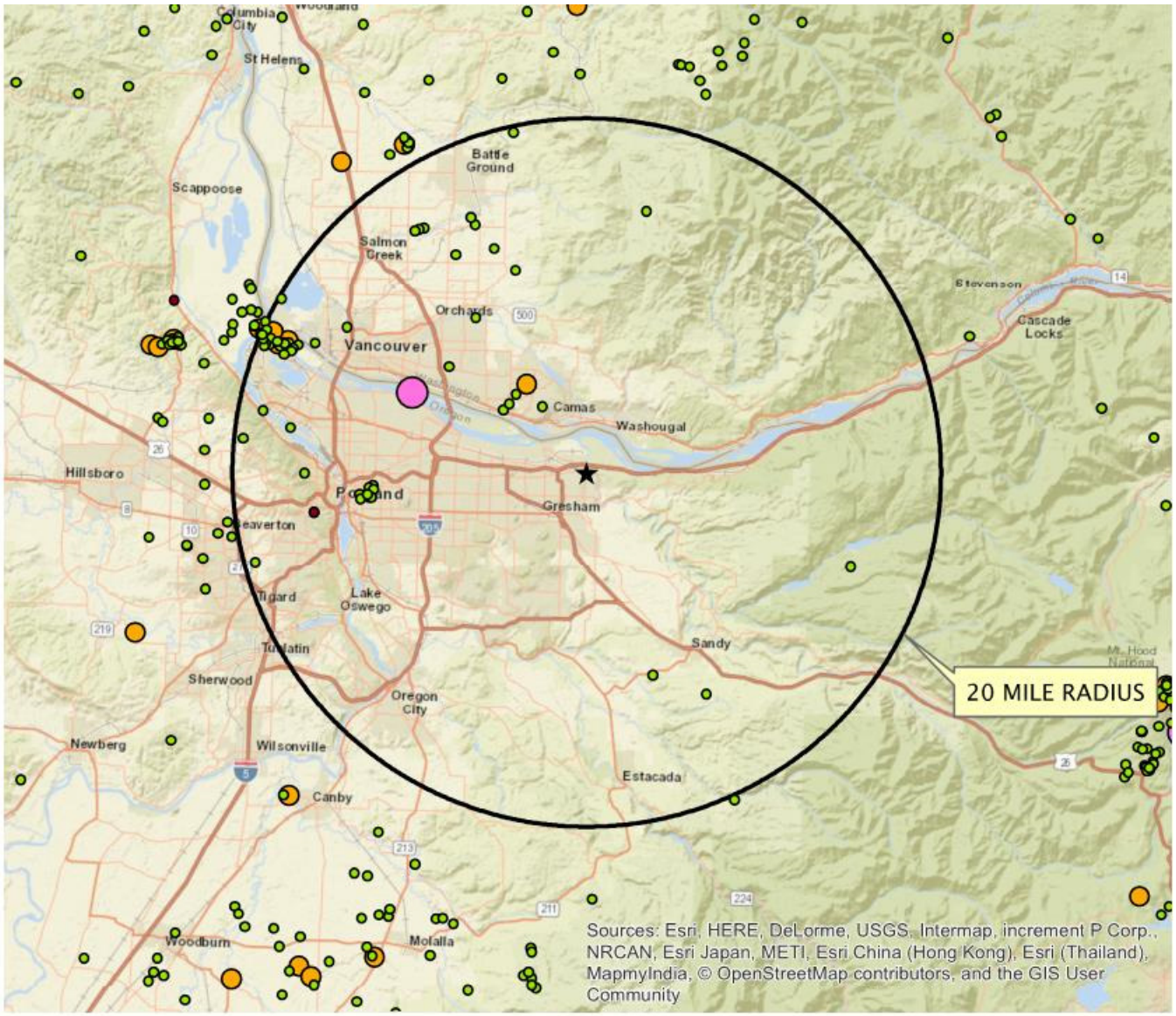
0 5 10

Miles

QUATERNARY FAULT DATA FROM USGS (2010)

GEODESIGN INC 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSSD-4-01	**QUATERNARY FAULT MAP**	
	MAY 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE C-1**

ReynoldsSD-4-01-FC1_C2.docx Print Date: 4/29/16



LEGEND

★ SITE LOCATION

INSTRUMENTAL EARTHQUAKE MAGNITUDE

- 2.0 - 3.0
- 3.0 - 4.0
- 4.0 - 6.0
- > 6.0

MAXIMUM MODIFIED MERCALLI INTENSITY

MMI

- VI
- VII
- VIII

N

0 5 10

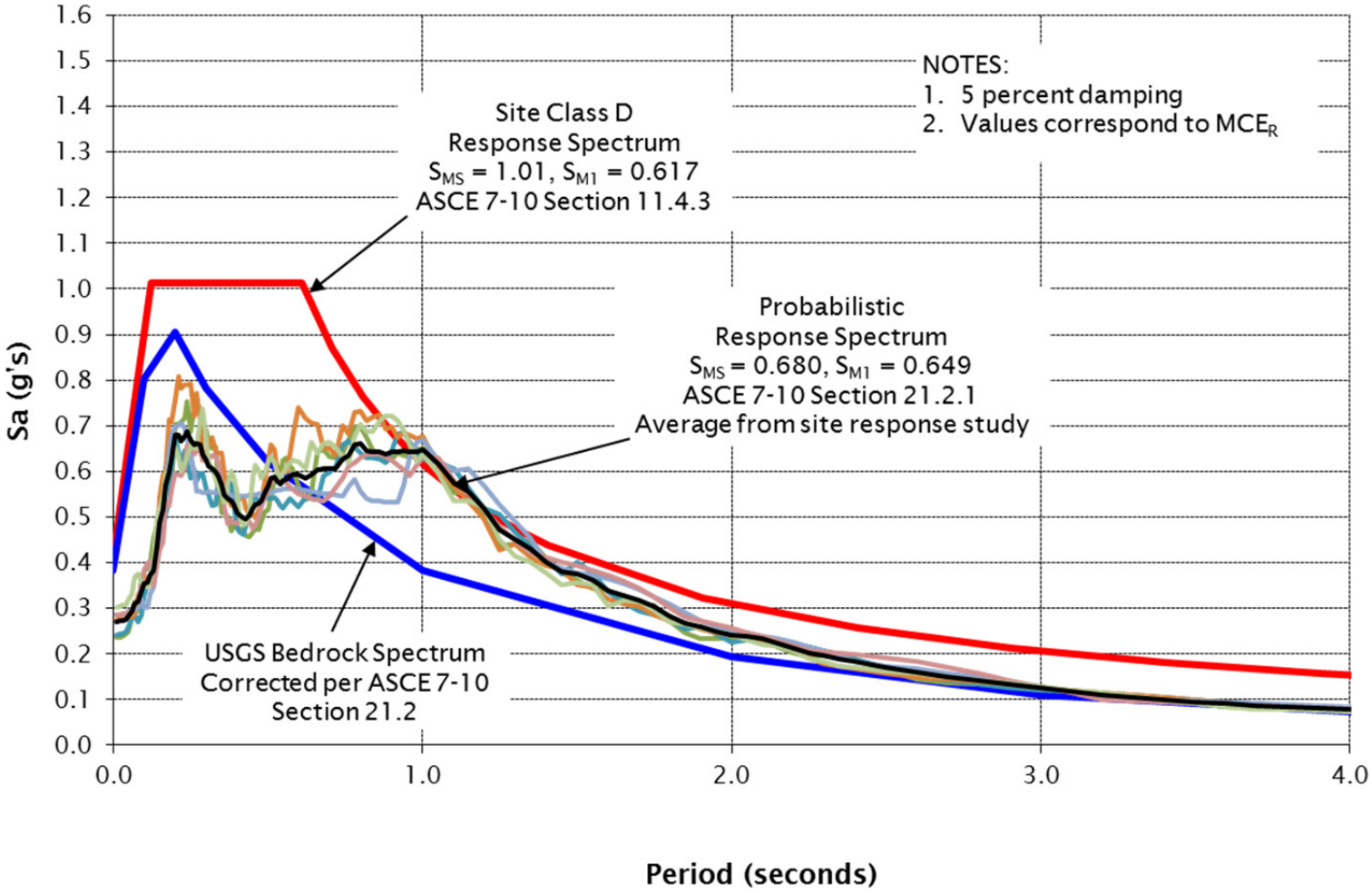
Miles

HISTORICAL MMI DATA FROM NGDC (2010)

INSTRUMENTAL MAGNITUDES FROM USGS (2014), PNSN (2014)

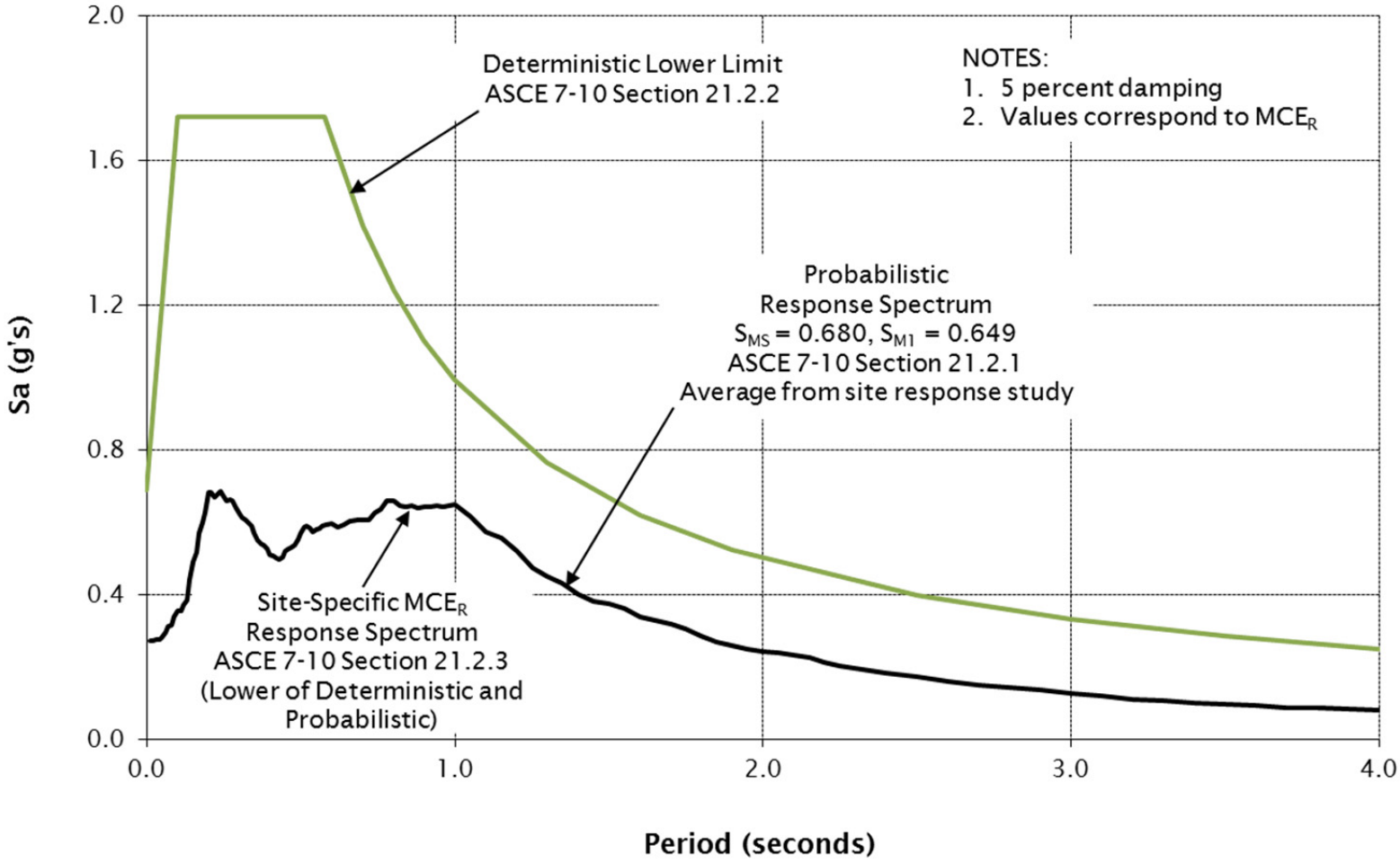
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Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-4-01	**HISTORICAL SEISMICITY MAP**	
MAY 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE C-2**



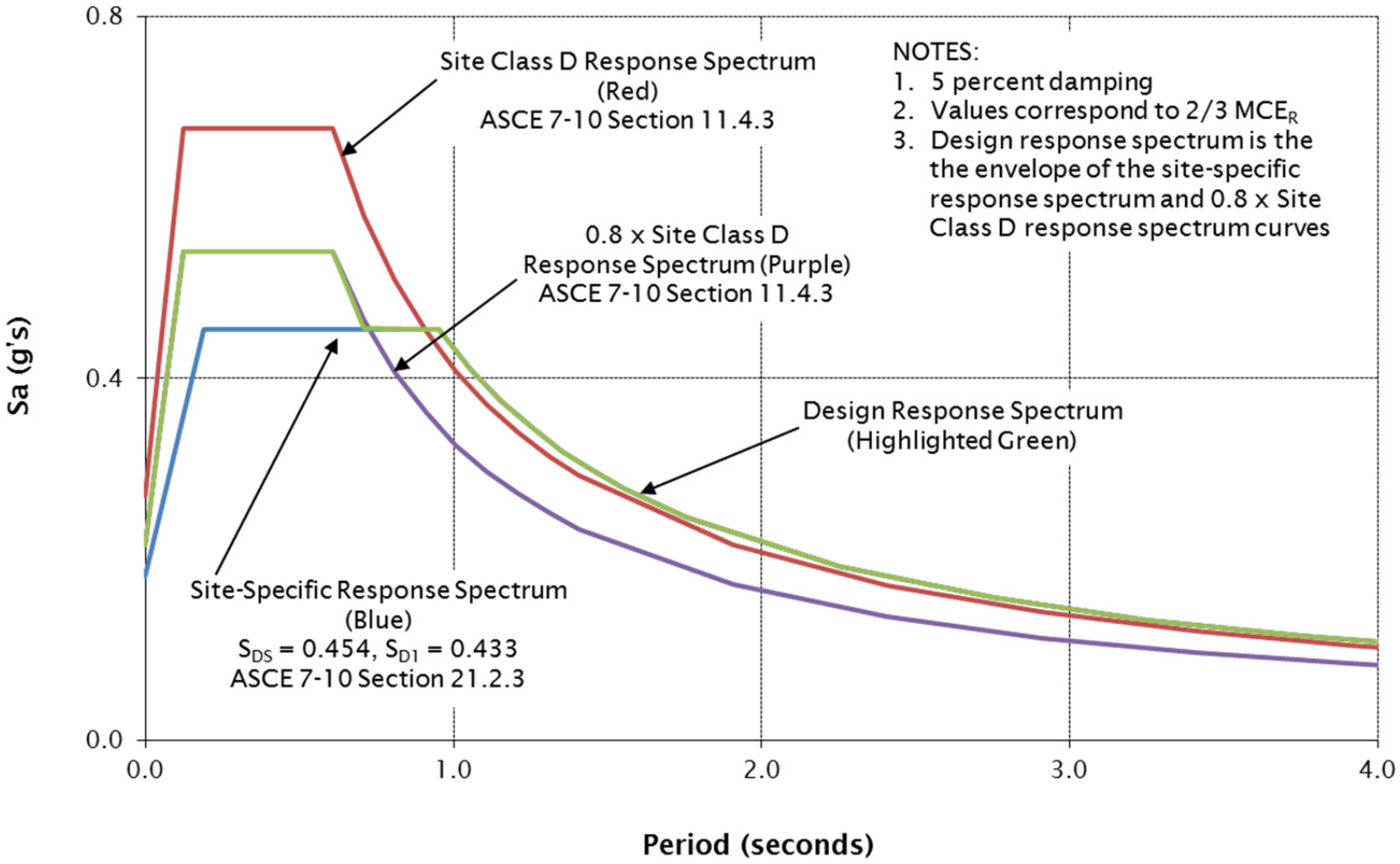
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Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-4-01	**SITE RESPONSE SPECTRA**	
MAY 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE C-3**



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REYNOLDSSD-4-01	**SITE-SPECIFIC RESPONSE SPECTRA**	
MAY 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE C-4**



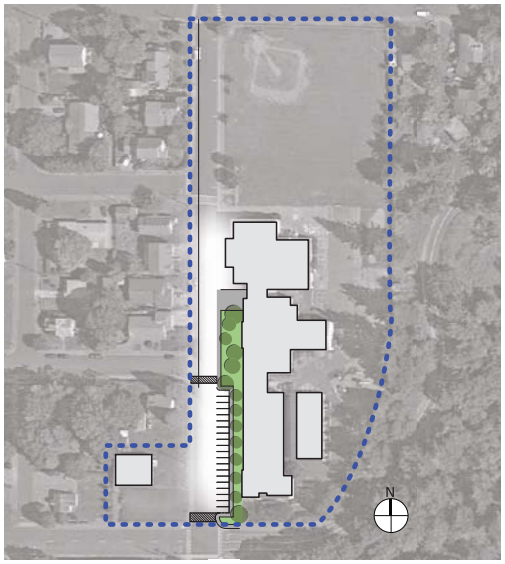
GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-4-01	**DESIGN RESPONSE SPECTRA**	
MAY 2016	TROUTDALE ELEMENTARY SCHOOL TROUTDALE, OR	**FIGURE C-5**

APPENDIX D

2.27 TROUTDALE ELEMENTARY









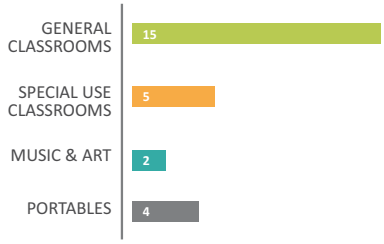
27 648 SE HARLOW AVENUE
TROUTDALE, OR 97060

FACILITY SUMMARY

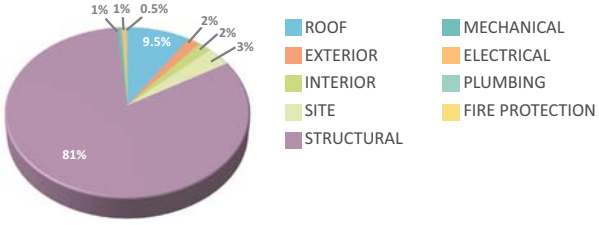
Troutdale Elementary, built in 1926, is a K-5 elementary school. The school hosted five T.I.G.E.R. nights for families during the year supported by Title I funds, and two Latino Parent Nights supported by Title III funds. They also hosted a Do-It-Yourself Home Weatherization night with the Community Energy Project. Teachers began using MasteryConnect, an online resource that allows them to share and discover common formative assessments and track mastery of Common Core standards. Troutdale continued their Journalism Club for 4th and 5th grade students where they wrote stories and took photos of school activities for the school's website.

CITY	Troutdale
YEAR BUILT ADDITIONS	1926 1949/55/70/73/84/96/00/01+
BUILDING AREA	54,883 sf
SITE AREA	3.98 acres
STUDENT POPULATION	375
PRIMARY STRUCTURE	Wood Framing & Reinf. Conc.
ROOF TYPE	Built-up

ROOM TYPE DISTRIBUTION



FACILITY REPAIR COST ALLOCATION

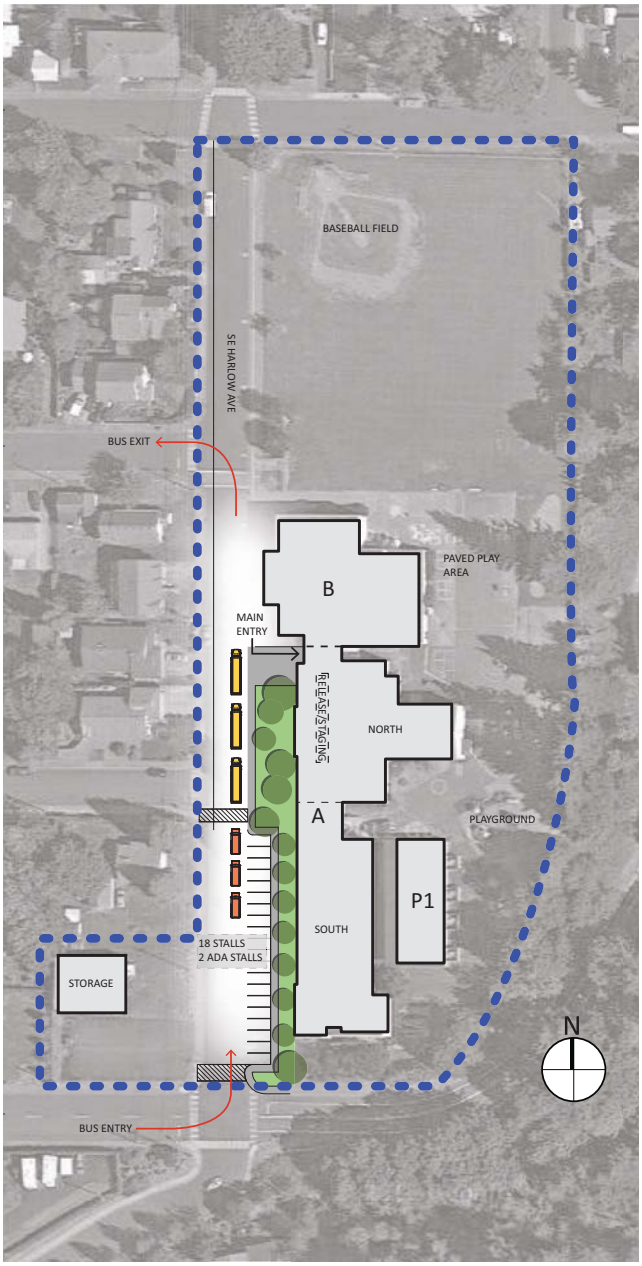


FACILITY CONDITION INDEX

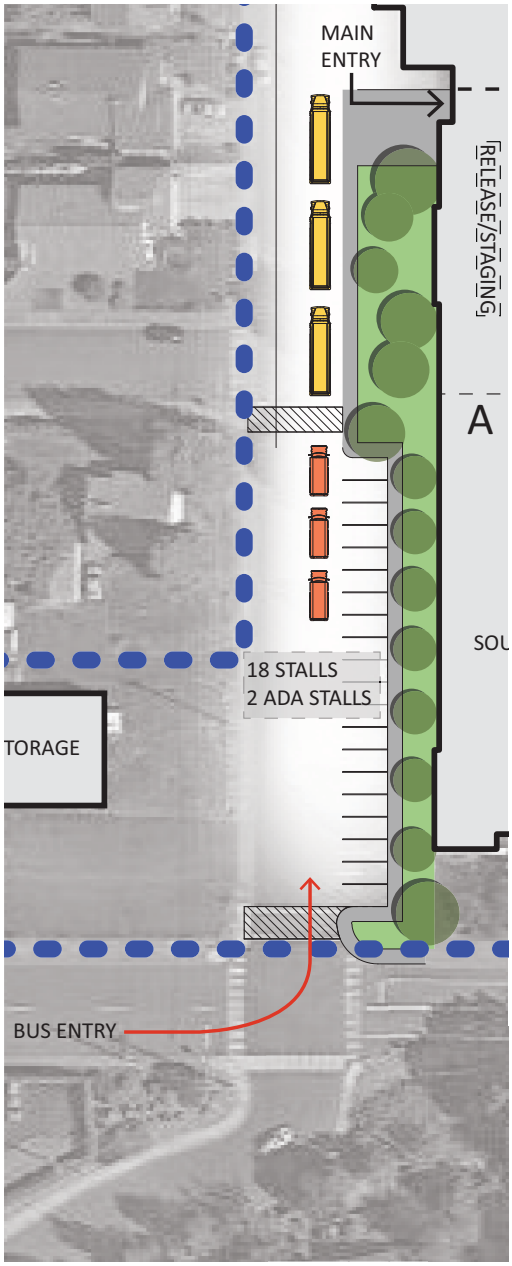


2.27 TROUTDALE ELEMENTARY

TRANSPORTATION ASSESSMENT



SITE PLAN
NOT TO SCALE

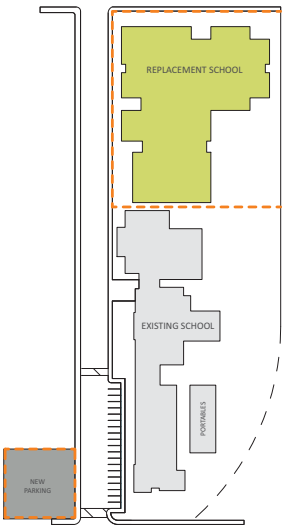


BUS AREA PLAN
NOT TO SCALE

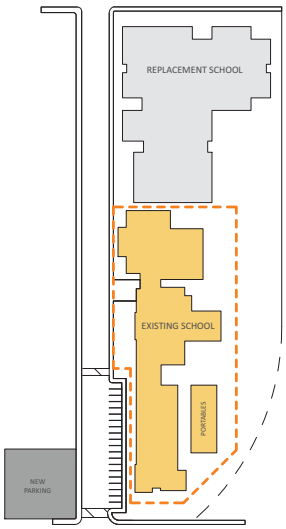
2.27 TROUTDALE ELEMENTARY

FACILITY REPLACEMENT PHASING PLAN

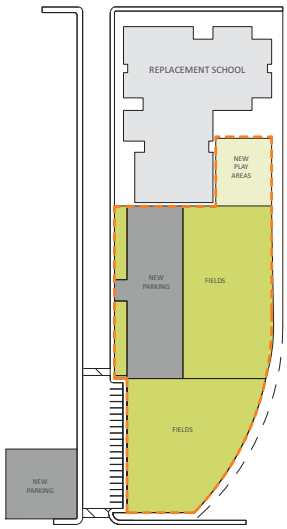
PHASE 1: CONSTRUCT REPLACEMENT SCHOOL



PHASE 2: DEMOLISH EXISTING SCHOOL



PHASE 3: RE-WORK SITE, PARKING AND FIELDS



LEGEND

- NEW CONSTRUCTION
- RENOVATION OF EXISTING
- DEMOLITION
- BUS PATH OF TRAVEL
- PARENT PATH OF TRAVEL

SITE PLAN
NOT TO SCALE

2.27 TROUTDALE ELEMENTARY

SITE DEVELOPMENT CONCEPT PLAN



BUS SUMMARY

CURRENT ENROLLMENT:	375
CURRENT BUS COUNT:	3 large
	3 small
PROPOSED CAPACITY:	450
PROPOSED BUS COUNT:	5 large
	3 small

LARGE: MAXIMUM 70 ELEMENTARY STUDENTS/BUS
SMALL: MAXIMUM 45 ELEMENTARY STUDENTS/BUS

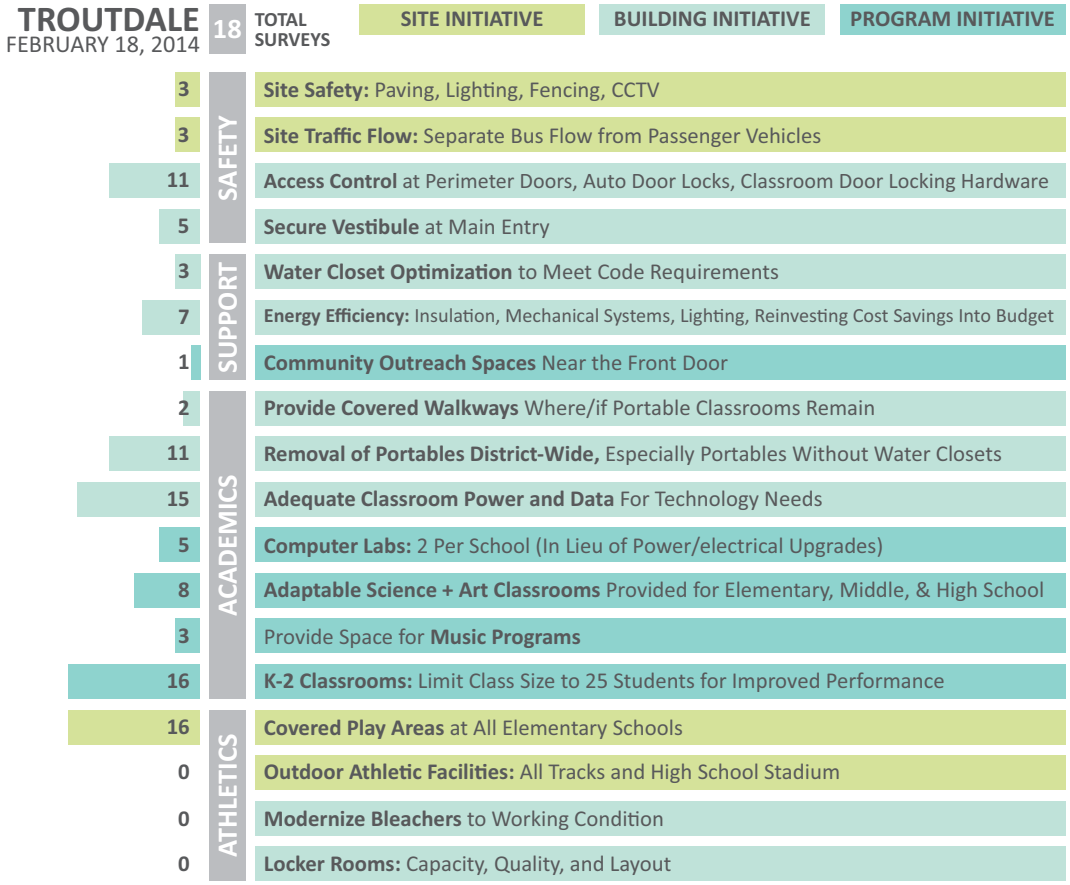
FIRST FLOOR PLAN
NOT TO SCALE

2013-2014 Enrollment: **375**

	EXISTING	PROPOSED
Building Area (sf):	54,883	59,136
Programmed Capacity:	394	450
Gross Area Per Student:	139 SF	131.4 SF
Full day kindergarten:	NO	YES
General Classrooms:	15	16
Special Use Classrooms:	4	5
Computer labs:	0	2
Music & Science/Art:	1	2
Portables:	4	0
Cafeteria Area (sf):	2808	3672
Cafeteria Capacity:	185	244

2.27 TROUTDALE ELEMENTARY

STAFF PRIORITY VOTING RESULTS



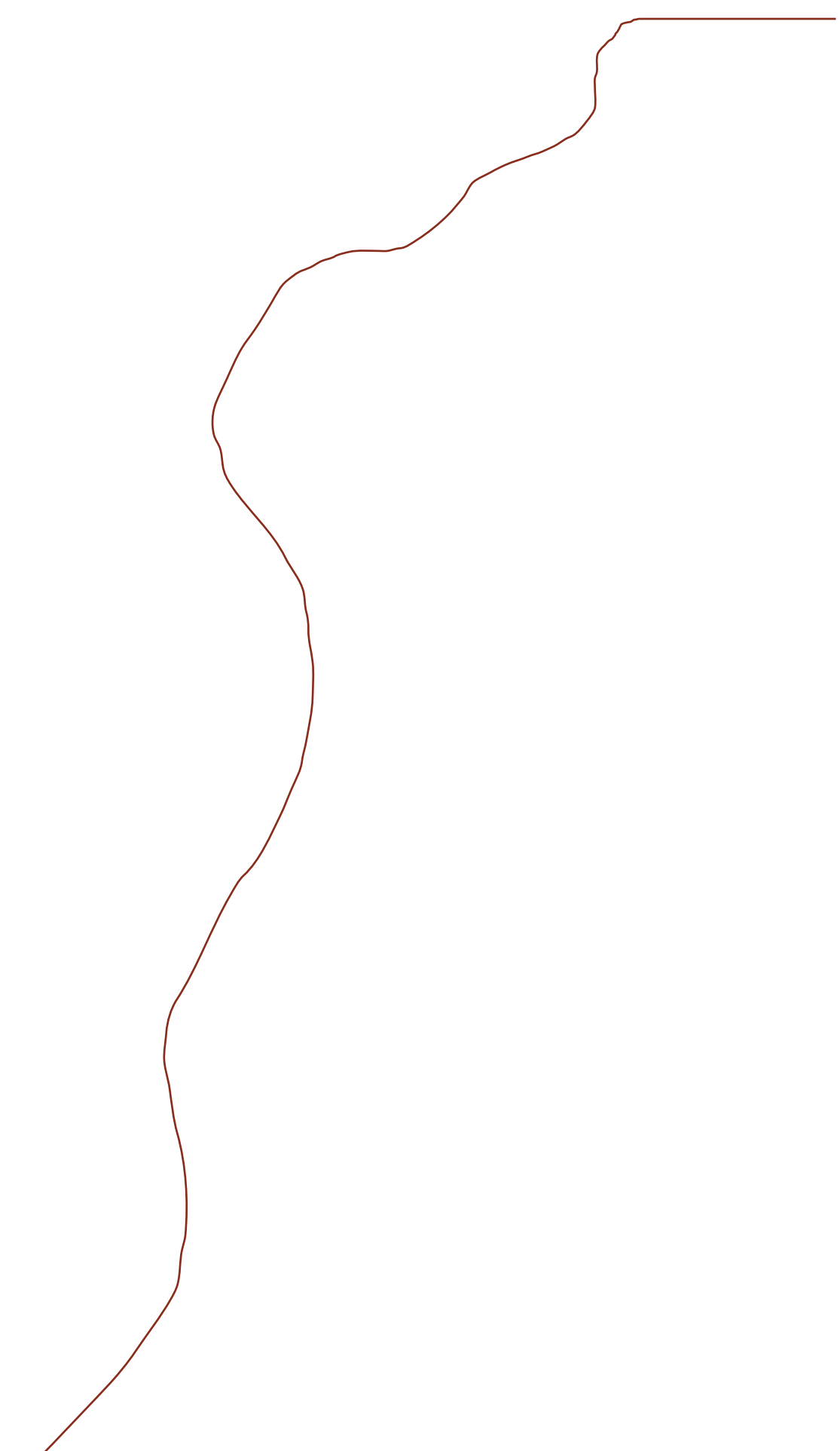
COMMENTS/QUESTIONS

- Elementary school classroom sizes: Intermediate (4th & 5th) should have larger space/classrooms than primary K-3 rooms.
- Desired in-class components: storage, shelving, drying shelves, closed closets, large walls for displaying teaching charts, large smart boards, hanging projectors, big windows, low cubbies in hall so kids can store backpack/coats but teachers can display art above cubbies.
- Desired in-building components: art room, large storage room, book rooms, wide hallways, safety (CCTV, dual exits on all classrooms, front entrance with secure vestibule)
- Large classrooms wanted. Our classrooms are cramps. Almost no room for carpet time with students in many rooms
- Separating passenger and busses would be good as it can get very congested
- Security should be a priority and a way to ensure only authorized/clocked-in persons can enter the main part of the building
- Technology needs should be considered. We have iPads but not the support to use them effectively in the classrooms

ACRONYMS AND ABBREVIATIONS

ACRONYMS

AASHTO	American Association of State Highway and Transportation Officials
AC	asphalt concrete
ACP	asphalt concrete pavement
ASCE	American Society of Civil Engineers
ASTM	American Society for Testing and Materials
BGS	below ground surface
CSZ	Cascadia Subduction Zone
DEQ	Oregon Department of Environmental Quality
ESA	Environmental Site Assessment
ESAL	equivalent single-axle load
FHWA	Federal Highway Administration
g	gravitational acceleration (32.2 feet/second^2)
H:V	horizontal to vertical
IBC	International Building Code
km	kilometers
MCE	maximum considered earthquake
MCE_R	risk-targeted maximum considered earthquake
OSHA	Occupational Safety and Health Administration
OSSC	Oregon Standard Specifications for Construction (2015)
OWRD	Oregon Water Resources Department
pcf	pounds per cubic foot
PG	performance grade
PGA	peak ground acceleration
psf	pounds per square foot
psi	pounds per square inch
SOSSC	State of Oregon Structural Specialty Code
SRM	Sandy River Mudstone
SPT	standard penetration test
UIC	underground injection control
USGS	U.S. Geological Survey
UST	underground storage tank



PBS | Engineering + Environmental

Pre-Demolition Hazardous Building Materials Survey Report

Troutdale Elementary School
648 SE Harlow Ave
Troutdale, OR 97060

Prepared for:

Reynolds School District No. 7

General Information	1.1
Inspection Summary	1.2
Probable Cost Estimates	1.13
Survey Drawings	2.1
Sample Inventories	3.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered

March 2016
Project No.: 23881.003

4412 SW Corbett Avenue, Portland, OR 97239
503.248.1939 Main
866.727.0140 Fax
888.248.1939 Toll-Free

www.pbsenv.com

GENERAL INFORMATION

BUILDING DATA

Troutdale Elementary School
648 SE Harlow Ave
Troutdale, OR 97060

CLIENT DATA

Reynolds School District No. 7
1204 NE 201st Ave.
Fairview, OR 97024-9642

SURVEY SCOPE

PBS Engineering and Environmental Inc. (PBS) has performed a pre-demolition hazardous materials survey of accessible building areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Suspect polychlorinated biphenyl (PCB) light ballast inspection
- Inspection summary
- Floor plan diagrams indicating material and sample locations
- Laboratory analytical data of bulk material sampled

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials in the building; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling or floor spaces. If suspect materials that are not identified in this report are uncovered during demolition or renovation activities, testing should be performed prior to impact.PBS has conducted a physical inspection of the building, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Rich Dufresne
Project Manager
Accreditation # IMR-16-0264A

3/2/2016

Signature Date

Steve Dilling
Prime Inspector
Accreditation # IMR-16-0931A

3/2/2016

Signature Date

INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
12/23/2015	Steve Dilling	Inspect and Sample
12/23/2015	Chris Boyce	Inspect and Sample

PBS has investigated accessible areas inside of the building(s) to locate suspect asbestos-containing materials (ACM). Suspect materials may be present in concealed areas (e.g., behind walls and under carpet). The findings are listed below.

ASBESTOS MATERIALS

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.
(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

Result	Material (type)	Location	Approx. Quantity
(P)	Asbestos Pipe Insulation/Hard Fittings	Various locations throughout the building (exposed, above drop ceilings, and in wall cavities)	1,560 LF
(P)	Boiler Insulation	Gym building boiler room	160 SF
(T)	Hard Fittings/Fiberglass	Various locations throughout the building (exposed, above drop ceilings, and in wall cavities)	75 EA
(+)	Lay-in Ceiling Tile	Boiler room office area walls and ceiling, and scattered locations in the lower level teachers' lounge, cafeteria, and hallway	250 SF
(+)	Mechanical Isolation Cloth	Lower level storage room	1 EA
(+)	Vinyl Floor Tile/Mastic	Multiple layers of floor tile and mastic throughout; in some areas concealed below cabinetry, carpet, or multiple layers of non-asbestos flooring.	16,150 SF
(+)	Vinyl Floor Tile	Portables	4,200 SF
(+)	Window Glazing Compound	Gymnasium building windows and remaining wood windows on main building (units of various sizes)	28 EA
(+)	Chalkboard	Wall mounted in classroom 108 and on freestanding easel at stage	48 SF
(P)	Asbestos Insulated Wiring	Gym building, stage	2 EA

INSPECTION SUMMARY

(+)	Covebase/Mastic (<1%)	Main building, lower level, mechanical space within IT/Custodial office	20 LF
(+)	Gypsum Wallboard/Joint Compound (<1%)	Main building, lower level, mechanical space within IT/Custodial office; storage rooms off of cafeteria; and gym building mechanical loft above stage	3,000 SF
(+)	Glue dots associated with Glued-on Ceiling Tiles (<1%)	Throughout, on walls and ceilings	10,200 SF
(+)	Mastic (<1%)	Mastic associated with 2'x4' tectum sound attenuation panels on gym walls	3,000 SF
(+)	Material Debris (<1%)	Roofing debris above ceilings throughout the first floor of the main building including the media center and gym building	15,000 SF

INSPECTION SUMMARY

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

Material (type)	Location
Skim Coat on concrete	Lower level staff lounge
Skim coat/texturing over glued-on wall tiles	Lower level east classrooms
Vinyl Floor Tile/Mastic	Various new installations throughout the main building and gym building
Asphalt Impregnated Paper	Painted floor covering in the lower level teacher's lounge
Asphalt Impregnated Paper	Various rooms and hallways below 3/8" plywood flooring underlayment
Carpet Mastic	Classroom carpets
Caulk	Portlable, exterior of windows
Ceramic Tile/Grout	Gym building, old showers and locker rooms
Ceramic Tile/Grout	Main floor boys' and girls' restrooms
Cork floor tile	Gym stage
Covebase/Mastic	Various locations throughout (See drawings for location of asbestos-containing occurrences of this material)
Glued-on Ceiling Tiles	Various locations throughout (See drawings for location of asbestos-containing occurrences of this material)
Gypsum Wallboard/Joint Compound	Various locations throughout (See drawings for location of asbestos-containing occurrences of this material)
HVAC seam sealer	Portable exterior ductwork
Lagging/Non-asbestos Material	Main building, boiler room, boilers
Lay-in Ceiling Tile	Various locations throughout (See drawings for location of asbestos-containing occurrences of this material)
Leveling Compound	Classroom 106
Mastic asociated with pinboards	Various locations throughout main building and gym building
Mechanical Isolation Cloth	Gym mechanical loft
Mortar (breeching brick)	Gym building, boiler room

INSPECTION SUMMARY

Mortar (CMU block)	Gym building, south hallway
Sealer	Gym building exterior CMU and main building foundation
Sheet Floor Covering	Lower level boys' and girls' restrooms
Sink Undercoating	Various locations throughout
Spray-on on wallls	Gym building, YMCA rooms
Stair skirting	Gym building, stairs
Stucco	Gym building, exterior
Wall and Ceiling Plaster	Walls and ceilings throughout the main building and gym building
Wallpaper	Media center
Window Caulk	Gym building

INSPECTION SUMMARY

BACKGROUND

In December, 2015, PBS performed a pre-demolition hazardous building materials survey of Troutdale Elementary School located at 648 SE Harlow Avenue in Troutdale, Oregon.

The purpose of the survey was to identify asbestos-containing building materials, lead paint, mercury-containing products and other regulated materials that may be impacted by the planned demolition of the structures at the site.

This survey is compiled to satisfy the requirements to perform an asbestos inspection prior to any renovation or demolition activities under OAR 340-248-0270 and OSHA hazard communication requirements. This survey is not intended to serve as an abatement specification or bidding document.

Every attempt to access suspect asbestos-containing building materials was made during this survey. Additional destructive sampling may need to occur to access hidden or inaccessible materials when the school building is no longer occupied. If concealed materials are uncovered during demolition activities that are not identified in this report, stop work and contact PBS for additional investigation.

INSPECTION SUMMARY

Bulk samples of suspect asbestos-containing materials (ACM) were collected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector and submitted under chain-of-custody to Lab/Cor, Inc. of Portland, Oregon, for polarized light microscopy (PLM) analysis.

The materials noted below either tested positive for asbestos or, based on historical sampling and the experience of PBS field personnel, were not tested and are to be considered asbestos-containing. Materials that had mixed results are considered positive. If suspect materials, which are not identified in this report, are uncovered during construction activities, these uncovered materials should be tested to verify asbestos content prior to impact.

Asbestos-containing Thermal Systems Insulation (TSI)

Asbestos-containing TSI is present throughout the school.

- In the boiler room and adjacent “tunnel”, asbestos-containing pipe insulating is present on the piping. The pipe insulation in the boiler room consists of pipe diameters from 4” up to 12” and includes straight runs, hard fittings, valves clusters and the 12” diameter header.

- In the gym building boiler room, the boiler is insulated with asbestos-containing mag block insulation.

- Also located in the gym building boiler room, asbestos-containing pipe insulating is present on the piping. The pipe insulation in the boiler room consists of pipe diameters from 4” up to 12” and includes straight runs, hard fittings, and valves clusters.

- Asbestos-containing pipe insulation is located above the ceilings throughout the lower level of the main building, concealed in the wet walls suppling the restrooms, and exposed in the lower level storage areas and cafeteria.

- Asbestos-containing pipe insulation is assumed in the inaccessible area above the ceilings and in the walls of the gym building, including the restrooms and mechanical closet which was inaccessible.

- The distribution piping for the main floor of the school is fed from below, therefore asbestos-containing pipe insulation may exist at floor penetrations from the lower level.

- Asbestos-containing hard fittings are present on fiberglass insulated pipes throughout the lower level of the main building.

Asbestos-Containing Flooring

A variety of floor coverings exists throughout the school. Asbestos-containing flooring, mastics, and felts have been overlaid with non-asbestos carpet, flooring, or wood underlayment in many locations throughout the school. Given the variety of flooring types and layers and for clarity, we have combined flooring types and layers in this report to identify locations that contain asbestos-containing floor coverings. Please refer to the associated survey drawings for more detailed layering information.

INSPECTION SUMMARY

- Asbestos-containing vinyl floor tile and associated mastic is present throughout most of the main floor of the main building, the gym building, and several areas on the lower level of the main building, and the portables. As mentioned above various layers of asbestos-containing flooring and mastics have been overlaid with non-asbestos flooring and underlayments in many locations.

  Floor coverings located on the main level of the school are applied over wood substrate while those in the gym building and on the lower level of the main building are applied to a concrete substrate. Flooring in the main building stairwells is applied to a wood substrate.

Asbestos-Containing Roofing and Debris

Roofing debris is present throughout the building attic spaces. The asbestos-containing roofing debris is evidence that a prior roof tear-off project has occurred. It is unknown if all of the asbestos-containing roofing was properly removed during the roof tear off.

- Roofing debris that tested less than one percent (<1%) asbestos is located above the ceilings throughout the first floor of the main building, the media center, and gym building.

- The existing roofing material was not sampled at the time of this survey in order to maintain the integrity of the roofing membrane. All roofing materials shall be presumed asbestos-containing for the purposes of this survey.

Asbestos-Containing Miscellaneous Materials

In addition to the asbestos-containing TSI, flooring materials, and roofing debris discussed above other miscellaneous asbestos-containing materials include the following:

- Asbestos-containing mechanical isolation cloth is present in the lower level storage room
- Asbestos-containing lay-in ceiling tiles are present in the boiler room office on the ceiling and walls as well as in select locations of the lower level staff lounge, cafeteria, and hallway.
- Asbestos-containing window glazing compound and window sealants are present on the aluminum window assemblies in the gym building and remaining wood windows of the main building.
- Asbestos-containing chalkboards are present in classroom 106 and on a freestanding easel on the stage
- Presumed asbestos-containing wire insulation is present on a stage light on the gym stage

INSPECTION SUMMARY

<1% asbestos Materials

Materials containing less than one percent asbestos do not meet the definition of asbestos-containing materials requiring abatement by a licensed asbestos abatement contractor; however, Oregon OSHA does have certain training and handing requirements for individuals impacting these materials.

- Cove base mastic in the mechanical room inside the lower level IT/custodial office tested at less than one percent (<1%) asbestos.
- The joint compound on gypsum wallboard sampled in the lower level mechanical space within the IT/Custodial office; storage rooms off of cafeteria; and gym building mechanical loft above the stage tested at less than one percent (<1%) asbestos.
- Glue dots associated with 1-foot by 1-foot glue on ceiling in various locations including classrooms and hallways tested at less than one percent (<1%) asbestos
- Glue dots associated with 2-foot by 4-foot Tectum sound attenuation panels in the gymnasium tested at less than one percent (<1%) asbestos

Reference the hazardous materials survey drawings for location and description of asbestos-containing materials and the asbestos bulk sample inventories for additional information.

Asbestos Regulatory Issues

The State of Oregon Department of Environmental Quality (DEQ) and Environmental Protection Agency (EPA) regulations require proper removal and handling of asbestos-containing materials by licensed and certified asbestos abatement contractors prior to the renovation or demolition of buildings. In addition, the Oregon OSHA has specific requirements when workers may encounter or disturb ACM or when ACM is removed.

In 1994, Oregon-OSHA adopted federal regulations governing asbestos, (29 CFR Part 1926, 1101), OSHA requires building owners to perform “due diligence” in identifying and communicating information about installed building materials in order to prevent workers from unknowingly or improperly disturbing asbestos-containing materials (ACM) or presumed asbestos containing materials (PACM). Hazard communication, training, personal protection, work practices, exposure monitoring and recordkeeping are all major components of the regulation.

Documents of reference for the removal of asbestos-containing materials include:

1. Oregon Occupational Safety and Health Administration (OAR-437, 1926.1101 asbestos)
2. Department of Environmental Quality (OAR-340, Division 248)

INSPECTION SUMMARY

LEAD-BASED PAINT

INSPECTION SUMMARY

Paint-chip samples were collected from representative painted components of the interior and exterior of Troutdale Elementary School. The samples were submitted under chain of custody to The R.J. Lee Group, for analysis of lead content via flame atomic absorption (FLAA). The sampled surfaces were representative of painted building and/or architectural components located in the conference room and restroom.

Laboratory analysis of these samples produced results ranging from < 110 to 13,000 parts per million (ppm).

Please refer to the "Lead Sample Inventory" for specific samples locations and sample analyses.

Lead-Based Paint Regulatory Issue

The consumer product safety commission limit for lead in consumer paint products is 0.000009 percent or 90 parts per million (ppm) or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains 0.5 percent or 5,000 ppm. Under OSHA, any concentration of lead in paint that may become airborne during construction work operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint.

Oregon OSHA adopted the federal OSHA Lead in Construction Standard (29 CFR 1926.62) in November 1993 under Oregon Administrative Rule (OAR) 437 Division 3 1926.62. The OR-OSHA standard outlines worker exposure limits, personal protection requirements and employer responsibility for exposure assessment, training, housekeeping, and recordkeeping. OSHA’s lead standard applies to all work where employees may be exposed to lead in construction, alteration or repair activities. This includes demolition and/or renovation of structures where lead-containing materials are present.

In April 2010, The Environmental Protection Agency (EPA) enacted 40 CFR Part 745.82 Lead Renovation, Repair and Painting Program. These regulations apply when:

- Renovation, repair, and painting accrue in schools and child-occupied facilities built before 1978
- Children under 6 years of age occupy a building or part of a building for more than 6 hours a week
- Renovation, repair and painting activities disturb lead-based paint (concentrations above 5,000 ppm)

The purpose of the program is to ensure:

- Owners and occupants receive information on lead-based paint hazards before renovation begins
- Renovators and firms performing renovations are trained and certified
- Lead safe work practices are followed

INSPECTION SUMMARY

Reference the enacted regulations for additional requirements.

Disposal of building demolition waste (architectural components from residential buildings) coated with lead-based paint will generally not require a hazardous waste determination (i.e., TCLP testing). Demolition debris with high concentrations of lead paint will require a hazardous waste determination. Typical demolition debris may be disposed of at a solid waste landfill that is permitted by the DEQ and which meets the current design standards for municipal solid waste disposal facilities of 40 CFR, Part 258.

Refer to the DEQ Hazardous Waste Reduction Policy and follow all requirements under the Oregon DEQ, Management of Building Demolition Waste, 97-PO-002A for proper disposal of lead-based painted demolition waste.

PCB/MERCURY VAPOR TUBES

POLYCHLORINATED BIPHENYLS (PCB) / MERCURY VAPOR TUBES (MVT)

No representative light fixtures inspected contained PCB ballasts. All light fixtures should be inspected prior to renovation/demolition. If there is visual evidence that the ballast is PCB-containing or suspicion of a PCB leak or spill, a qualified contractor shall handle and dispose of PCB-containing light ballasts and contaminated fixtures in accordance with all applicable federal, state, and local regulations.

Approximately 950 mercury vapor fluorescent light tubes were inventoried in all buildings. Mercury vapor tubes should be carefully handled, packaged, and recycled in appropriate manner.

PCB and Mercury Vapor Tube Regulatory Issues

Please refer to the following documents for requirements for removal and disposal of PCB-containing light ballasts and mercury-containing light tubes: 1. U.S. Environmental Protection Agency Toxic Substance Control Act, TSCA, (Code of Federal Regulations Title 40, Part 761)
2. U.S. Environmental Protection Agency Office of Toxic Substances Guidance Document, Summary of PCB Regulations, EPA Document Number 910-S-94-002. 3. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) 4. RCRA, Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273 5. Oregon Administrative Rules: Hazardous Waste Regulations, OAR 340-100 through 340 -104; Universal Waste Management Regulations, OAR 340-113

PBS | Engineering + Environmental

Reynolds School District
Troutdale Elementary School

Asbestos-Containing Building Materials Abatement
Probable Abatement Cost Estimate

Project No. 23881.003 Phase 0001
Prepared by: Chris Boyce
Date Prepared: February 25, 2016

Item	Unit	Quantity	Unit Price (USD)	Amount (USD)
A. Mobilization, Permits & Fees	EA	1	$ 5,500.00	$ 5,500.00
B. Asbestos-Containing Material Abatement				
Mag Block Insulation on Boiler	SF	160	$ 20.00	$ 3,200.00
Asbestos Pipe Insulation	LF	1,560	$ 12.00	$ 18,720.00
Hard Fitting on Fiberglass Insulation	EA	75	$ 15.00	$ 1,125.00
Mechanical Isolation Cloth	EA	1	$ 75.00	$ 75.00
Roofing Debris (see note below)	SF	15000	$ 2.00	$ 30,000.00
Vinyl Floor Tile/ Mastic	SF	20350	$ 2.50	$ 50,875.00
Lay-in ceiling tiles	SF	250	$ 3.00	$ 750.00
Metal Windows with Glazing Compound/Caulk (per window assembly)	EA	12	$ 300.00	$ 3,600.00
Wood Windows with Glazing Compound/Caulk (per window assembly)	EA	16	$ 200.00	$ 3,200.00
Electric Wiring (stage lighting)	EA	2	$ 20.00	$ 40.00
Chalkboard	SF	48	$ 3.00	$ 144.00
				$ -
Subtotal Estimated Project Costs				**$117,229.00**
Contingency - 10%				$11,722.90
TOTAL PROBABLE COSTS				**$128,951.90**

Cost Estimate Assumptions:

1. Cost estimate does not include abatement design, monitoring, clearance air sampling or closeout
2. Line item above for asbestos-containing roofing debris removal is provided as an order-of-magnitude cost only. Actual abatement cost may vary greatly and is
3. Cost estimate does not include roofing applications.Roof sampling was not included in the scope of work at the time of survey

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS.
2. ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT HAZARDOUS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWING.
3. ASBESTOS-CONTAINING ROOFING DEBRIS IS PRESENT THROUGHOUT THE ATTIC INTERSTITIAL SPACES.
4. ASBESTOS-CONTAINING PIPE INSULATION SHOWN IS FOR REFERENCE PURPOSES ONLY. EXACT LOCATION MAY VARY.

LEGEND

- ASBESTOS-CONTAINING FLOOR TILE AND ASSOCIATED MASTIC
- ASBESTOS-CONTAINING FLOOR TILE AND NON-ASBESTOS MASTIC
- ASBESTOS-CONTAINING CEILING TILES (CEILING/SOFFIT/WALLS)
- □1□ ASBESTOS-CONTAINING GLUE DOTS ASSOCIATED WITH CEILING TILES
- ASBESTOS-CONTAINING MAG BLOCK INSULATION
- ASBESTOS-CONTAINING HORIZONTAL PIPE RUN
- ASBESTOS-CONTAINING VERTICAL PIPE RUN
- ASBESTOS-CONTAINING WINDOW GLAZING COMPOUND
- (1) APPROXIMATE NUMBER AND LOCATION OF ASBESTOS-CONTAINING HARD FITTINGS ON FIBERGLASS
- CPT ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH CARPET
- PLY ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH PLYWOOD AND/OR OTHER LAYERS OF FLOORING
- SHT ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH NON-ASBESTOS SHEET FLOORING AND/OR OTHER LAYERS
- ASBESTOS-CONTAINING DEBRIS

KEY NOTES

(1) ASBESTOS-CONTAINING MECHANICAL ISOLATION CLOTH PRESENT ON DUCT

(2) □1□ ASBESTOS-CONTAINING GLUE DOTS ASSOCIATED WITH CEILING TILE ON WALLS

(3) □1□ ASBESTOS-CONTAINING COVE BASE MASTIC

(4) □1□ ASBESTOS-CONTAINING GYPSUM WALLBOARD /□OINT COMPOUND

(5) <1% ASBESTOS-CONTAINING GLUE DOTS ASSOCIATED WITH 1'X1' CEILING TILE

(6) NOT USED

(7) PRESUMED API ON DOMESTIC WATER LINES ABOVE CEILING AND IN WALLS

(8) PRESUMED ASBESTOS-CONTAINING CHALKBOARD

⬡ ASBESTOS-CONTAINING CAULK

ASBESTOS SAMPLE SYMBOLS

◇ 007 — DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

NOT TESTED	NEGATIVE	POSITIVE	
○	⊜	●	THERMAL SYSTEM INSULATION
□	▤	■	SURFACING MATERIAL
◇	◈	◆	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◇001	23881.003-0001	(-/-)	BOILER □ACKET
◇002	23881.003-0002	(-)	WALL AND CEILING PLASTER
◆003	23881.003-0003	(□)	WALL TILE
◇004	23881.003-0004	(-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◆005	23881.003-0005	(□1□/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◇006	23881.003-0006	(-/-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◇007	23881.003-0007	(-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
■008	23881.003-0008	(□)	MECHANICAL ISOLATION CLOTH
◇00□	23881.003-000□	(-)	LAY-IN CEILING TILE (1)
◆010	23881.003-0010	(□)	LAY-IN CEILING TILE (2)
◇011	23881.003-0011	(-/-)	VINYL FLOOR TILE/MASTIC
◆012	23881.003-0012	(-/□)	VINYL FLOOR TILE/MASTIC
◇013	23881.003-0013	(-/-)	VINYL FLOOR TILE/MASTIC
◆014	23881.003-0014	(□1□/-)	GLUED-ON CEILING TILES
◇015	23881.003-0015	(-)	LAY-IN CEILING TILE (3)
◇016	23881.003-0016	(-/-)	TAR PAPER
◇017	23881.003-0017	(-/-)	GYPSUM AND PLASTER

INVENTORY OF ASBESTOS SAMPLES CONTINUED

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◇018	23881.003-0018	(-)	MASTIC
◇01□	23881.003-001□	(-/-/-/-)	COVEBASE/MASTIC
◇020	23881.003-0020	(-/-)	COVEBASE/MASTIC
◇021	23881.003-0021	(-/-)	VINYL FLOOR TILE/MASTIC
▤022	23881.003-0022	(-)	SINK UNDERCOATING
◆023	23881.003-0023	(□1□/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◆024	23881.003-0024	(-/□1□/-)	COVEBASE/MASTIC
▤025	23881.003-0025	(-)	SINK UNDERCOATING
▤026	23881.003-0026	(-/-)	SKIM COAT
◇027	23881.003-0027	(-/-/-)	SHEET FLOOR COVERING
◇028	23881.003-0028	(-/-/-)	SHEET FLOOR COVERING
◆02□	23881.003-002□	(-/□/-)	GLUED-ON CEILING TILES
▤030	23881.003-0030	(-/-)	SKIM COAT/TEXTURING OVER GLUE ON WALL TILES
◇031	23881.003-0031	(-/-)	MASTIC
◇032	23881.003-0032	(-/-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◆033	23881.003-0033	(-/□/-/-)	VINYL FLOOR TILE/MASTIC
◆034	23881.003-0034	(-/-/-/-/□1□/□/-)	SHEET FLOOR COVERING
◇035	23881.003-0035	(-)	MASTIC
◇036	23881.003-0036	(-)	TAR PAPER
◇037	23881.003-0037	(-/-)	VINYL FLOOR TILE/MASTIC
◇038	23881.003-0038	(-/-/-/-)	GYPSUM AND PLASTER
◇03□	23881.003-003□	(-/-/-)	CERAMIC TILE/GROUT
◇040	23881.003-0040	(-/-/-)	CERAMIC TILE/GROUT
◇041	23881.003-0041	(-)	MASTIC
◇042	23881.003-0042	(-/-)	MASTIC
◇043	23881.003-0043	(-/-)	COVEBASE/MASTIC
◇044	23881.003-0044	(-/-)	GLUED-ON CEILING TILES
◆045	23881.003-0045	(-/□1□/-/-)	GLUED-ON CEILING TILES
◇046	23881.003-0046	(-/-)	GYPSUM WALLBOARD
◇047	23881.003-0047	(-/-/-)	GYPSUM AND PLASTER
◇048	23881.003-0048	(-/-/-/-)	GYPSUM WALLBOARD
◇04□	23881.003-004□	(-/-)	MASTIC
◇050	23881.003-0050	(-/-)	BATT INSULATION
▤051	23881.003-0051	(-)	SINK UNDERCOATING
◇052	23881.003-0052	(-/-)	GLUED-ON CEILING TILES
◇053	23881.003-0053	(-)	LAY-IN CEILING TILE (4)
▤054	23881.003-0054	(-)	SINK UNDERCOATING
◇055	23881.003-0055	(-/-)	GLUED-ON CEILING TILES
◆056	23881.003-0056	(□1□)	MATERIAL DEBRIS
◆057	23881.003-0057	(-/-/□1□)	MATERIAL DEBRIS
◇058	23881.003-0058	(-/-/-)	WALL AND CEILING PLASTER
◆05□	23881.003-005□	(-/□1□)	GLUED-ON CEILING TILES/MASTIC
◇060	23881.003-0060	(-/-/-)	VINYL FLOOR TILE/MASTIC
◇061	23881.003-0061	(-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◇062	23881.003-0062	(-)	LAY-IN CEILING TILE
◆063	23881.003-0063	(-/□)	VINYL FLOOR TILE/MASTIC
◇064	23881.003-0064	(-/-)	COVEBASE/MASTIC
◇065	23881.003-0065	(-/-)	SHEET FLOOR COVERING
◆066	23881.003-0066	(-/□1□)	GLUED-ON CEILING TILES
◇067	23881.003-0067	(-/-)	MASTIC
◇068	23881.003-0068	(-/-)	WALLPAPER
▤06□	23881.003-006□	(-)	SINK UNDERCOATING
◇070	23881.003-0070	(-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◇071	23881.003-0071	(-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◇072	23881.003-0072	(-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◇073	23881.003-0073	(-)	WALL AND CEILING PLASTER
◇074	23881.003-0074	(-/-)	LEVELING COMPOUND
◇075	23881.003-0075	(-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
◇076	23881.003-0076	(-/-)	SHEET FLOOR COVERING
◆077	23881.003-0077	(□/□)	VINYL FLOOR TILE/MASTIC
◇078	23881.003-0078	(-/-/-)	COVEBASE/MASTIC
◇07□	23881.003-007□	(-/-)	CORK
◆080	23881.003-0080	(□/□)	VINYL FLOOR TILE/MASTIC
◆081	23881.003-0081	(□/□)	VINYL FLOOR TILE/MASTIC
◇082	23881.003-0082	(-/-)	VINYL FLOOR TILE/MASTIC
◇083	23881.003-0083	(-/-/-)	MATERIAL DEBRIS
◆084	23881.003-0084	(□/-)	GYPSUM WALLBOARD/□OINT COMPOUND
⊜085	23881.003-0085	(-)	MECHANICAL ISOLATION CLOTH
◇086	23881.003-0086	(-/-)	GYPSUM WALLBOARD/□OINT COMPOUND
▤087	23881.003-0087	(-)	SPRAY-ON CEILING
◇088	23881.003-0088	(-/-)	WALL AND CEILING PLASTER
◇08□	23881.003-008□	(-/-/-)	WALL AND CEILING PLASTER
◆0□0	23881.003-00□0	(-/□1□)	TECTUM/MASTIC
▤0□1	23881.003-00□1	(-)	SINK UNDERCOATING
◇0□2	23881.003-00□2	(-/-)	CERAMIC TILE/GROUT
◇0□3	23881.003-00□3	(-/-)	CERAMIC TILE/GROUT
◇0□4	23881.003-00□4	(-/-)	CERAMIC TILE/GROUT
◇0□5	23881.003-00□5	(-)	MORTAR
◇0□6	23881.003-00□6	(-/-/-)	MORTAR
◇0□7	23881.003-00□7	(-/-)	STAIR SKIRT
◆0□8	23881.003-00□8	(-/□/-)	VINYL FLOOR TILE/MASTIC
◇0□□	23881.003-00□□	(-/-)	COVEBASE/MASTIC
◇100	23881.003-0100	(-)	CAULK
◇101	23881.003-0101	(-/-)	VINYL FLOOR TILE/MASTIC
◇102	23881.003-0102	(-)	LAY-IN CEILING TILE
◇103	23881.003-0103	(-)	SEAM SEALER
◇104	23881.003-0104	(-)	SEALER
◆105	23881.003-0105	(□1□)	WINDOW GLAZING COMPOUND
◇106	23881.003-0106	(-)	CAULK
◆107	23881.003-0107	(□)	CAULK
◇108	23881.003-0108	(-)	STUCCO
◆10□	23881.003-010□	(-/□)	WINDOW GLAZING COMPOUND
◇110	23881.003-0110	(-)	STUCCO
◇111	23881.003-0111	(-)	CAULK
◇112	23881.003-0112	(-)	SEALER
◆113	23881.003-0113	(□)	CHALKBOARD

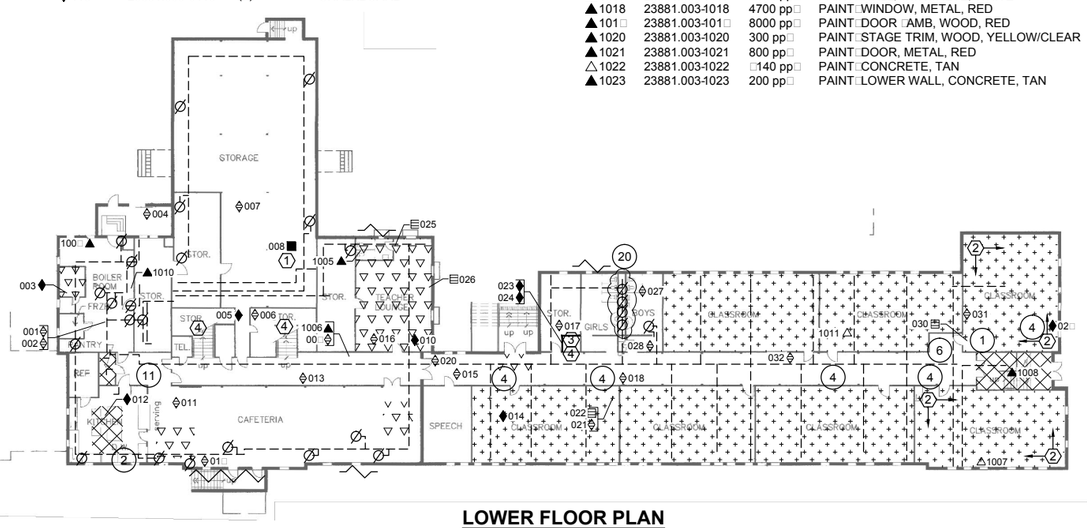
LEAD SAMPLE SYMBOLS

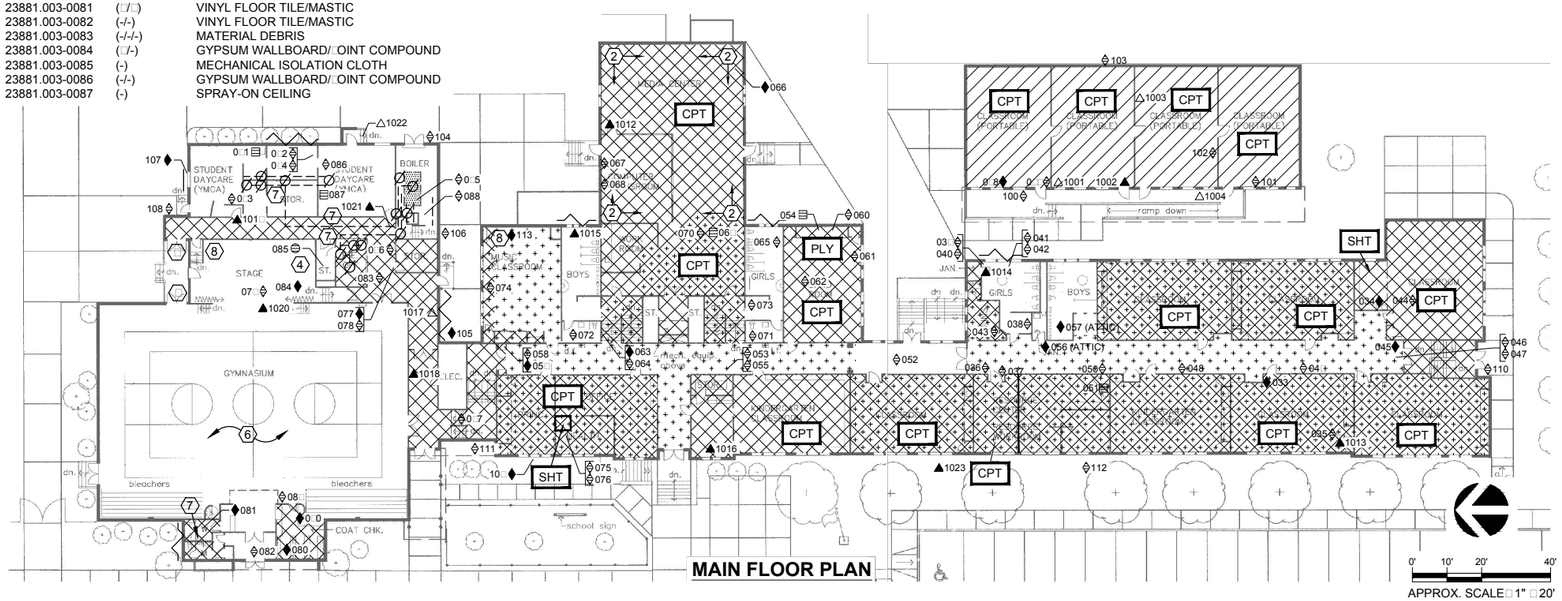
△ 1007 — DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

▲ LEAD DETECTED △ BELOW THE LIMIT OF DETECTION

INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (pp□)	MATERIAL DESCRIPTION
△1001	23881.003-1001	□120 pp□	PAINT□DOOR □AMB, WOOD, OFF-WHITE
▲1002	23881.003-1002	210 pp□	PAINT□DOOR, METAL, BLUE
△1003	23881.003-1003	□140 pp□	PAINT□WALL, WOOD, WHITE
△1004	23881.003-1004	□130 pp□	PAINT□EXTERIOR SIDING, METAL, BEIGE
▲1005	23881.003-1005	1800 pp□	PAINT□TAR PAPER ON CONCRETE, RED
▲1006	23881.003-1006	13000 pp□	PAINT□CAFE , WALL, PLASTER, TAN
△1007	23881.003-1007	□110 pp□	PAINT□ROOM B2, WALL, WOOD PANEL, BLUE
▲1008	23881.003-1008	3700 pp□	PAINT□SOUTH STAIRWELL, WALL, PLASTER
▲100□	23881.003-100□	1300 pp□	PAINT□WALL, CONCRETE, GRAY
▲1010	23881.003-1010	170 pp□	PAINT□FLOOR, CONCRETE, GRAY
△1011	23881.003-1011	□120 pp□	PAINT□HVAC DUCT, METAL, WHITE
▲1012	23881.003-1012	160 pp□	PAINT□WALL, CONCRETE, YELLOW
▲1013	23881.003-1013	1100 pp□	PAINT□WALL, PLASTER, WHITE
▲1014	23881.003-1014	670 pp□	PAINT□DOOR FRAME, WOOD, WHITE
▲1015	23881.003-1015	1800 pp□	PAINT□WINDOW □AMB, WOOD, OFF-WHITE
▲1016	23881.003-1016	6000 pp□	PAINT□WALL, PLASTER, WHITE
△1017	23881.003-1017	□150 pp□	PAINT□WALL, CONCRETE, WHITE
▲1018	23881.003-1018	4700 pp□	PAINT□WINDOW, METAL, RED
▲101□	23881.003-101□	8000 pp□	PAINT□DOOR □AMB, WOOD, RED
▲1020	23881.003-1020	300 pp□	PAINT□STAGE TRIM, WOOD, YELLOW/CLEAR
▲1021	23881.003-1021	800 pp□	PAINT□DOOR, METAL, RED
△1022	23881.003-1022	□140 pp□	PAINT□CONCRETE, TAN
▲1023	23881.003-1023	200 pp□	PAINT□LOWER WALL, CONCRETE, TAN





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TROUTDALE ELEMENTARY
REYNOLDS SCHOOL DISTRICT
648 SE HARLOW AVENUE
TROUTDALE, OREGON

NO.	REVISION	BY	DATE	CHK

PRO. ECT□ 23881.003
DRAWN□ D□
CHECKED□ CB
DATE□ FEBRUARY 2016

DWG NO. HM1
SHEET NO. 1 OF 1

L:\Projects\23000\23500\238...\23881 Reynolds 23881.003 Troutdale\DWG\23881.003 HM1.2.d g Mar 07, 2016 08:17a - don

Code	Material	Location	Results	Lab
23881.003-0001	Boiler Jacket	Main building; boiler room, on fiberglass		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	woven material with coating, white	No Asbestos Detected	
	Layer 2	fibrous material, golden brown with foil backing	No Asbestos Detected	
23881.003-0002	Wall and Ceiling Plaster	Main building; boiler room, ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, light gray	No Asbestos Detected	
23881.003-0003	Wall Tile	Main building; boiler room, office, 2'x4' lay-in ceiling tile, on north wall and ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, light gray with paint, white	4% Amosite	
23881.003-0004	Gypsum Wallboard/Joint Compound	Main building; boiler room, vestibule, on ceiling and behind kiln		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0005	Gypsum Wallboard/Joint Compound	Main building; lower level, large storage room, entry		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, tan	<1% Chrysotile	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0006	Gypsum Wallboard/Joint Compound	Main building; lower level, large storage room, painted		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with paper backing, white	No Asbestos Detected	
	Layer 2	fine compact powder, off-white	No Asbestos Detected	
	Layer 3	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0007	Gypsum Wallboard/Joint Compound	Main building; lower level, large storage room, ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white with paper backing, brown	No Asbestos Detected	
	Layer 2	compact chalky material with paper, pink	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0008	Mechanical Isolation Cloth	Main building; lower level, large storage room, on ductwork		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous material, off-white	45% Chrysotile	
23881.003-0009	Lay-in Ceiling Tile (1)	Main building; lower level, cafeteria, 2'x4' ant hole		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, tan/gray with paint, white	No Asbestos Detected	
23881.003-0010	Lay-in Ceiling Tile (2)	Main building; lower level, teachers lounge, 2'x4' fissured		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, light gray with paint, white	2% Amosite	
23881.003-0011	Vinyl Floor Tile/Mastic	Main building; lower level, cafeteria, 12"x12' brown and tan streaks		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic orange/black	No Asbestos Detected	
23881.003-0012	Vinyl Floor Tile/Mastic	Main building; lower level, kitchen below stove, 12"x12" white with brown flecks		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, black	3% Chrysotile	
23881.003-0013	Vinyl Floor Tile/Mastic	Main building; lower level, café hallway, 12"x12" light tan and light brown streaks		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white	No Asbestos Detected	
	Layer 2	compact powder, white with mastic, black	No Asbestos Detected	
23881.003-0014	Glued-on Ceiling Tiles	Main building; lower level, classroom, 1'x1' pinhole with brown glue dot		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, brown	<1% Anthophyllite	
	Layer 2	compressed fibers, golden brown	No Asbestos Detected	
23881.003-0015	Lay-in Ceiling Tile (3)	Main building; lower level, corridor, 2'x4' heavy pinhole		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous material, beige with paint, white	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.003-0016	Tar Paper		Main building; lower level, teachers lounge, tar paper flooring with paint		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thick paint, red/gray	No Asbestos Detected	
		Layer 2	fibrous backing, black	No Asbestos Detected	
23881.003-0017	Gypsum and Plaster		Main building; lower level, IT room, above lay-in ceiling tile		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, off-white	No Asbestos Detected	
		Layer 2	compact chalky material, white	No Asbestos Detected	
23881.003-0018	Mastic		Main building; lower level, classrooms hall, tan/gold carpet mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, yellow	No Asbestos Detected	
23881.003-0019	Covebase/Mastic		Main building; lower level, cafeteria, 6" brown base, multiple mastics		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, gray	No Asbestos Detected	
		Layer 2	mastic, off-white	No Asbestos Detected	
		Layer 3	mastic, brown	No Asbestos Detected	
		Layer 4	compact powder, white	No Asbestos Detected	
		Layer 5	flexible sheet, brown/off-white	No Asbestos Detected	
23881.003-0020	Covebase/Mastic		Main building; lower level, classroom hall, 4" black base, brown mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, black	No Asbestos Detected	
		Layer 2	mastic, off-white	No Asbestos Detected	
		Layer 3	mastic, brown	No Asbestos Detected	
23881.003-0021	Vinyl Floor Tile/Mastic		Main building; lower level, classrooms, at sinks, 12"x12" smeared tan streaks		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, clear	No Asbestos Detected	
		Layer 2	vinyl tile, off-white	No Asbestos Detected	
		Layer 3	mastic, orange	No Asbestos Detected	
23881.003-0022	Sink Undercoating		Main building; lower level, classrooms, smooth black sink undercoating		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose mastic, black	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0023	Gypsum Wallboard/Joint Compound	Main building; lower level, IT room		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, off-white with fine compact powder, white	<1% Chrysotile	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0024	Covebase/Mastic	Main building; lower level, IT room, brown 4"		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, brown	No Asbestos Detected	
	Layer 2	mastic, brown	<1% Anthophyllite	
	Layer 3	fibrous backing, brown	No Asbestos Detected	
23881.003-0025	Sink Undercoating	Main building; lower level, staff lounge, white undercoating		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose flaky material, off-white	No Asbestos Detected	
23881.003-0026	Skim Coat	Main building; lower level, staff lounge, skim coat on concrete wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, tan with fine compact powder, white	No Asbestos Detected	
	Layer 2	granular compact powder, gray	No Asbestos Detected	
23881.003-0027	Sheet Floor Covering	Main building; lower level, boys restroom, gray pebble mosaic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, pebbled, off-white/gray	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
	Layer 3	hard compact powder, off-white	No Asbestos Detected	
23881.003-0028	Sheet Floor Covering	Main building; lower level, boys restroom, blue small pebble mosaic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, pebbled, gray	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
	Layer 3	cementitious material, gray	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0029	Glued-on Ceiling Tiles	Main building; lower level, east classrooms, 1'x1' drill hole tile, brown glue dot		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed wood fibers, brown	No Asbestos Detected	
	Layer 2	mastic, brown	2% Anthophyllite	
	Layer 3	fibrous backing, brown	No Asbestos Detected	
23881.003-0030	Skim coat/texturing over glue on wall tiles	Main building; lower level, east classrooms, skim coat over wall tiles		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, purple with fine compact powder, white	No Asbestos Detected	
	Layer 2	compressed wood fibers, brown	No Asbestos Detected	
23881.003-0031	Mastic	Main building; lower level, classroom wall, gold mastic below pin boards		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, orange	No Asbestos Detected	
	Layer 2	compressed fibers, brown with paint, white	No Asbestos Detected	
23881.003-0032	Gypsum Wallboard/Joint Compound	Main building; lower level, classrooms hall, gypsum wall with joint compound		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, blue with fine compact powder, tan	No Asbestos Detected	
	Layer 2	paint, blue with fine compact powder, white	No Asbestos Detected	
	Layer 3	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0033	Vinyl Floor Tile/Mastic	Main building; main floor, Room 117, 9"x9" on tar paper, on wood		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, orange	No Asbestos Detected	
	Layer 2	vinyl tile, red	8% Chrysotile	
	Layer 3	mastic, black	No Asbestos Detected	
	Layer 4	fibrous material, black	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0034	Sheet Floor Covering	Main building; main floor, Room 120, one layer of sheet flooring, two layers of vinyl floor tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, gray	No Asbestos Detected	
	Layer 2	fibrous backing, gray with mastic, off-white	No Asbestos Detected	
	Layer 3	mastic, yellow	No Asbestos Detected	
	Layer 4	vinyl tile, yellow/brown	No Asbestos Detected	
	Layer 5	mastic, black	<1% Chrysotile	
	Layer 6	vinyl tile, red	8% Chrysotile	
	Layer 7	fibrous tar backing, black	No Asbestos Detected	
23881.003-0035	Mastic	Main building; main floor, Room 117, gold carpet mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, orange with carpet fibers, blue	No Asbestos Detected	
23881.003-0036	Tar Paper	Main building; main floor, Room 114 threshold, felt tar paper below plywood		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous tar material, black	No Asbestos Detected	
23881.003-0037	Vinyl Floor Tile/Mastic	Main building; main floor, hallway, 12"x12" white with blue streaks		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
23881.003-0038	Gypsum and Plaster	Main building; main floor, girls restroom, bathroom and custodial wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with coating, tan/green	No Asbestos Detected	
	Layer 2	hard compact powder, white	No Asbestos Detected	
	Layer 3	granular compact powder, gray	No Asbestos Detected	
	Layer 4	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0039	Ceramic Tile/Grout	Main building; main floor, girls restroom, 4" green covebase tile, grout		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine cementitious material, gray	No Asbestos Detected	
	Layer 2	ceramic tile, white/green	No Asbestos Detected	
	Layer 3	loose chalky material, white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0040	Ceramic Tile/Grout	Main building; main floor, girls restroom, green hexagon floor tile, grout		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	ceramic tile, green	No Asbestos Detected	
	Layer 2	fine cementitious material, gray	No Asbestos Detected	
	Layer 3	fine cementitious material, dark gray	No Asbestos Detected	
23881.003-0041	Mastic	Main building; main floor, girls restroom, old 1'x1' ceiling tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, brown with coating, white	No Asbestos Detected	
23881.003-0042	Mastic	Main building; main floor, girls restroom, new 1'x1' fiberglass ceiling tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose fibrous material, yellow	No Asbestos Detected	
	Layer 2	thick mastic, brown with coating, white	No Asbestos Detected	
23881.003-0043	Covebase/Mastic	Main building; main floor, Room 110 closet, 6" black covebase, dark brown mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	hard rubbery material, dark brown	No Asbestos Detected	
	Layer 2	mastic, dark brown with granular compact powder, white	No Asbestos Detected	
23881.003-0044	Glued-on Ceiling Tiles	Main building; main floor, Room 120, 1'x1' gypsum fissure, brown dots		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, brown	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0045	Glued-on Ceiling Tiles	Main building; main floor, hall, south end, 1'x1' random drill hole, brown dots		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed wood fibers, brown	No Asbestos Detected	
	Layer 2	mastic, dark brown	<1% Anthophyllite	
	Layer 3	mastic, brown	No Asbestos Detected	
	Layer 4	fibrous backing, brown	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0046	Gypsum Wallboard	Main building; main floor, ceiling above hall ceiling, black paper faced gypsum		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose flaky material, white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, tan	No Asbestos Detected	
23881.003-0047	Gypsum and Plaster	Main building; main floor, ceiling above hall ceiling, gypsum lath with plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, green with granular compact powder, white	No Asbestos Detected	
	Layer 2	granular compact powder, gray	No Asbestos Detected	
	Layer 3	compact chalky material with paper, white	No Asbestos Detected	
	Layer 4	thin powder, white with fibrous backing, brown	No Asbestos Detected	
23881.003-0048	Gypsum Wallboard	Main building; main floor, hallway infill walls, gypsum with joint compound		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	paint, white with fine compact powder, white	No Asbestos Detected	
	Layer 2	fine compact powder, off-white with paper backing, gray	No Asbestos Detected	
	Layer 3	fine compact powder, off-white with paper backing, white	No Asbestos Detected	
	Layer 4	fine compact powder, off-white	No Asbestos Detected	
	Layer 5	loose chalky material, white	No Asbestos Detected	
23881.003-0049	Mastic	Main building; main floor, hall, gold pin board panel mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, tan	No Asbestos Detected	
	Layer 2	compressed wood fibers, brown	No Asbestos Detected	
23881.003-0050	Batt Insulation	Main building; main floor, above hall ceiling, brown fiberglass batt insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous material, dark gray	No Asbestos Detected	
	Layer 2	textured fibrous material, brown	No Asbestos Detected	
23881.003-0051	Sink Undercoating	Main building; main floor, Room 115, rough bumpy black undercoating		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular material, black	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0052	Glued-on Ceiling Tiles	Main building; main floor, hall, above drop ceiling, 1'x1' gypsum fissure pattern, brown dots		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact chalky material with paper, white	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
23881.003-0053	Lay-in Ceiling Tile (4)	Main building; main floor, hall, above drop ceiling, new 2'x4' small fissure		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.003-0054	Sink Undercoating	Main building; main floor, Workroom 109, gray sink undercoating		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	flaky material, gray	No Asbestos Detected	
23881.003-0055	Glued-on Ceiling Tiles	Main building; main floor, hall, above drop ceiling, 1'x1' random drill hole, brown dots		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, orange	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
23881.003-0056	Material Debris	Main building; main floor, attic, roofing debris under blown-in insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose tar debris, black	<1% Chrysotile	
23881.003-0057	Material Debris	Main building; main floor, attic, roofing debris under blown-in insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous material, white	No Asbestos Detected	
	Layer 2	fibrous material, brown	No Asbestos Detected	
	Layer 3	loose tar debris, black	<1% Chrysotile	
23881.003-0058	Wall and Ceiling Plaster	Main building; main floor, corridor, north end, above ceiling, wood lath with misc glue dot		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	coarse cementitious material, gray	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
	Layer 3	compressed fibers, orange	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0059	Glued-on Ceiling Tiles/Mastic	Main building; main floor, corridor, north end, lower ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, orange	No Asbestos Detected	
	Layer 2	mastic, brown	<1% Anthophyllite	
23881.003-0060	Vinyl Floor Tile/Mastic	Main building; main floor, work room, gray 12", top layer		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, gray	No Asbestos Detected	
	Layer 2	mastic, yellow/gray	No Asbestos Detected	
	Layer 3	fine powder, off-white	No Asbestos Detected	
23881.003-0061	Gypsum Wallboard/Joint Compound	Main building; main floor, Workroom 109, new wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white with paint, off-white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0062	Lay-in Ceiling Tile	Main building; main floor, Workroom 109, 2'x4' looks like 2'x2'		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.003-0063	Vinyl Floor Tile/Mastic	Main building; stairs to media room, 12"x12" maroon tile on stair		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, tan	No Asbestos Detected	
	Layer 2	mastic, black	3% Chrysotile	
23881.003-0064	Covebase/Mastic	Main building; stairs to media room, brown stair riser covebase		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, light brown	No Asbestos Detected	
	Layer 2	mastic, light brown	No Asbestos Detected	
23881.003-0065	Sheet Floor Covering	Main building; girls restroom at stairs, tan small pebble pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl, tan	No Asbestos Detected	
	Layer 2	fibrous backing, tan	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.003-0066	Glued-on Ceiling Tiles		Main building; media center walls, 1'x1' random drill hole, extra holes		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibrous material, orange	No Asbestos Detected	
		Layer 2	mastic, brown	<1% Anthophyllite	
23881.003-0067	Mastic		Main building; media center, pin board panels, yellow mastic on wood		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fibrous material, orange	No Asbestos Detected	
		Layer 2	mastic, yellow	No Asbestos Detected	
23881.003-0068	Wallpaper		Main building; media center, below pin boards, textured wall paper, brown mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thick paint, green with paper, tan	No Asbestos Detected	
		Layer 2	mastic, brown	No Asbestos Detected	
23881.003-0069	Sink Undercoating		Main building; media center, office, black smooth undercoating		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	granular powder, black	No Asbestos Detected	
23881.003-0070	Gypsum Wallboard/Joint Compound		Main building; media center, soffit at desk, soffit gypsum		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, off-white	No Asbestos Detected	
		Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0071	Gypsum Wallboard/Joint Compound		Main building; media center, women's staff restroom wall		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, white with paint, white	No Asbestos Detected	
		Layer 2	compact chalky material with paper, brown	No Asbestos Detected	
23881.003-0072	Gypsum Wallboard/Joint Compound		Main building; media center, men's staff restroom wall		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, white with paint, blue	No Asbestos Detected	
		Layer 2	compact chalky material, brown	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0073	Wall and Ceiling Plaster	Main building; media center, girls restroom		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, white with paint, yellow/brown	No Asbestos Detected	
23881.003-0074	Leveling Compound	Main building; Room 106, under carpet		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	mastic, blue	No Asbestos Detected	
	Layer 2	soft compact powder, gray	No Asbestos Detected	
23881.003-0075	Gypsum Wallboard/Joint Compound	Main building; main level, health room, wall		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white with paint, light blue	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0076	Sheet Floor Covering	Main building; main level, health room, tan and red speckled pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, beige	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
23881.003-0077	Vinyl Floor Tile/Mastic	Gym building; hall at electrical room, 9"x9" tan and brown tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, tan	6% Chrysotile	
	Layer 2	mastic, black	4% Chrysotile	
23881.003-0078	Covebase/Mastic	Gym building; hall at electrical room, 4" black with multiple mastics		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, black	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
	Layer 3	brittle mastic, brown	No Asbestos Detected	
23881.003-0079	Cork	Gym building; stage, 12"x12" cork tile with mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	cork, tan	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0080	Vinyl Floor Tile/Mastic	Gym building; gym storage room, 9"x9' red tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, orange	5% Chrysotile	
	Layer 2	mastic, black	2% Chrysotile	
23881.003-0081	Vinyl Floor Tile/Mastic	Gym building; girls restroom, 9"x9" green tile		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, green	7% Chrysotile	
	Layer 2	mastic, black	3% Chrysotile	
23881.003-0082	Vinyl Floor Tile/Mastic	Gym building; west gym foyer, 12"x12" white with gray streaks		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white	No Asbestos Detected	
	Layer 2	mastic, black	No Asbestos Detected	
23881.003-0083	Material Debris	Gym building; south corridor above ceiling, roofing debris under blown insulation		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fibrous material, white	No Asbestos Detected	
	Layer 2	tar, black	No Asbestos Detected	
	Layer 3	paper backing, brown	No Asbestos Detected	
23881.003-0084	Gypsum Wallboard/Joint Compound	Gym building; mechanical loft, unpainted		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white	3% Chrysotile	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.003-0085	Mechanical Isolation Cloth	Gym building; mechanical loft, on ductwork		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	woven fibers, black	No Asbestos Detected	
23881.003-0086	Gypsum Wallboard/Joint Compound	Gym building; YMCA room, ceiling		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, white	No Asbestos Detected	
	Layer 2	compact chalky material, white	No Asbestos Detected	
23881.003-0087	Spray-on Ceiling	Gym building; YMCA room, walls		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine powder, off-white with paint, off-white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0088	Wall and Ceiling Plaster	Gym building; boiler room, plaster on wood lath		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	cementitious material, white with paint, red/green	No Asbestos Detected	
	Layer 2	coarse cementitious material, gray	No Asbestos Detected	
23881.003-0089	Wall and Ceiling Plaster	Gym building; gym west wall, plaster on gypsum lath		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
	Layer 3	coarse cementitious material, off-white	No Asbestos Detected	
23881.003-0090	Tectum/Mastic	Gym building; gym walls, tectum wall panels with mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	thick fibers, tan/white	No Asbestos Detected	
	Layer 2	mastic, dark brown	<1% Anthophyllite	
23881.003-0091	Sink Undercoating	Gym building; north YMCA room, gray undercoating		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	flaky material, gray	No Asbestos Detected	
23881.003-0092	Ceramic Tile/Grout	Gym building; old shower room, tan wall tile, grout		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	ceramic tile, white	No Asbestos Detected	
	Layer 2	cementitious material, gray/off-white	No Asbestos Detected	
23881.003-0093	Ceramic Tile/Grout	Gym building; storage off north YMCA room, gray stone tile, grout, floor		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	ceramic tile, brown	No Asbestos Detected	
	Layer 2	fine cementitious material, dark gray	No Asbestos Detected	
23881.003-0094	Ceramic Tile/Grout	Gym building; old shower room, floor tile grout		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	cementitious material, gray	No Asbestos Detected	
	Layer 2	fine cementitious material, gray	No Asbestos Detected	
23881.003-0095	Mortar	Gym building; boiler room, gym boiler chimney		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	cementitious material, gray	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.003-0096	Mortar		Gym building; south hallway, CMU block		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thick paint, white/green	No Asbestos Detected	
		Layer 2	fine cementitious material, dark gray	No Asbestos Detected	
		Layer 3	coarse cementitious material, gray	No Asbestos Detected	
23881.003-0097	Stair Skirt		Gym building; stair to main hall, black stair skirt, brown mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, black	No Asbestos Detected	
		Layer 2	mastic, brown	No Asbestos Detected	
23881.003-0098	Vinyl Floor Tile/Mastic		Portable 1; music room, gray and tan streaked tile, under carpet		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, orange	No Asbestos Detected	
		Layer 2	vinyl tile, tan	3% Chrysotile	
		Layer 3	mastic, black	No Asbestos Detected	
23881.003-0099	Covebase/Mastic		Portable 1; music room, 4" purple, gold mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, purple	No Asbestos Detected	
		Layer 2	mastic, orange/off-white	No Asbestos Detected	
23881.003-0100	Caulk		Portable 1; music room, exterior window caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	putty, light gray with paint, off-white	No Asbestos Detected	
23881.003-0101	Vinyl Floor Tile/Mastic		Portable 4; west and floor, 12" gray and tan streak, black mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl tile, tan	No Asbestos Detected	
		Layer 2	mastic, black	No Asbestos Detected	
23881.003-0102	Lay-in Ceiling Tile		Portable 3; 1'x1' starburst pattern, no glue		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibers, orange with paint, white	No Asbestos Detected	
23881.003-0103	Seam Sealer		Portable 2; exterior ductwork, white mastic on ductwork		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, white	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.003-0104	Sealer		Gym building, east exterior wall; sealer on CMU block		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, gray/yellow/red, with paint, tan	No Asbestos Detected	
23881.003-0105	Window Glazing Compound		Gym building, south corridor windows; window glazing, white caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, gray, with multiple layers of paint	<1% Chrysotile	
23881.003-0106	Caulk		Gym building, south corridor windows; window glazing, white caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, white/off-white	No Asbestos Detected	
23881.003-0107	Caulk		Gym building, north doors, exterior; gray stem caulk		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	flexible material, green/red/tan	6% Chrysotile	
23881.003-0108	Stucco		Gym building, north exterior; texture/stucco on walls		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compact powder, green/yellow, with paint, tan	No Asbestos Detected	
23881.003-0109	Window Glazing Compound		Main building, old cafeteria windows; gray and tan glazing		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	hard compact powder, off-white, with paint, tan	No Asbestos Detected	
		Layer 2	fine compact powder, gray	2% Chrysotile	
23881.003-0110	Stucco		Main building, south wall; texture/stucco on walls		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compact powder, green/yellow, with paint, tan	No Asbestos Detected	
23881.003-0111	Caulk		Gym building, west entrance; white caulk on new windows		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	rubbery material, off-white, with paint, white	No Asbestos Detected	
23881.003-0112	Sealer		Main building, west exterior; sealant/paint on lower walls		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	paint, tan/gray	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.003-0113	Chalkboard	Main building, main floor, room 106; green chalkboard below pin board		Lab Cor

	Layer:	Description:	Analysis:
	Layer 1	fibrous material, gray, with flakey material, green	15% Chrysotile

Code	Material	Analysis	Location	Lab
PAINT				
LB23881.003-1001	Paint	<120 ppm	Portable 1; music room, door jamb, wood, off-white, fair condition	R.J. Lee Group
LB23881.003-1002	Paint	210 ppm	Portable 2; door, metal, blue, fair condition	R.J. Lee Group
LB23881.003-1003	Paint	<140 ppm	Portable 3; wall, wood, white, fair condition	R.J. Lee Group
LB23881.003-1004	Paint	<130 ppm	Portable; exterior siding, metal, beige, good condition	R.J. Lee Group
LB23881.003-1005	Paint	1800 ppm	Main building; lower level, staff lounge, floor, tar paper on concrete, red, fair condition	R.J. Lee Group
LB23881.003-1006	Paint	13000 ppm	Main building; café, wall, plaster, tan, fair condition	R.J. Lee Group
LB23881.003-1007	Paint	<110 ppm	Main building; Room B2, wall, wood panel, blue, good condition	R.J. Lee Group
LB23881.003-1008	Paint	3700 ppm	Main building; south stairwell, wall, plaster, blue, poor condition	R.J. Lee Group
LB23881.003-1009	Paint	1300 ppm	Main building; boiler room, wall, concrete, gray, poor condition	R.J. Lee Group
LB23881.003-1010	Paint	170 ppm	Main building; boiler room, floor, concrete, gray, poor condition	R.J. Lee Group
LB23881.003-1011	Paint	<120 ppm	Main building; Room B7, HVAC duct, metal, white, good condition	R.J. Lee Group
LB23881.003-1012	Paint	160 ppm	Main building; main floor, media center, wall, concrete, yellow, good condition	R.J. Lee Group
LB23881.003-1013	Paint	1100 ppm	Main building; main floor, Room 119, wall, plaster, white, fair condition	R.J. Lee Group
LB23881.003-1014	Paint	670 ppm	Main building; main floor, room 110 bathroom, door frame, wood, white, fair condition	R.J. Lee Group
LB23881.003-1015	Paint	1800 ppm	Main building; main floor, center boys restroom, window jamb, wood, off-white, poor condition	R.J. Lee Group
LB23881.003-1016	Paint	6000 ppm	Main building; main floor, storage room, wall, plaster, white, fair condition	R.J. Lee Group
LB23881.003-1017	Paint	<150 ppm	Gym building; south hall, wall, concrete, white, fair condition	R.J. Lee Group
LB23881.003-1018	Paint	4700 ppm	Gym building; south hall, window, metal, red, fair condition	R.J. Lee Group
LB23881.003-1019	Paint	8000 ppm	Gym building; north YMCA room, door jamb, wood, red, poor condition	R.J. Lee Group
LB23881.003-1020	Paint	300 ppm	Gym building; stage, stage trim, wood, yellow/clear, fair condition	R.J. Lee Group
LB23881.003-1021	Paint	800 ppm	Gym building; boiler room door, metal, red, fair condition	R.J. Lee Group

Code	Material	Analysis	Location	Lab
LB23881.003-1022	Paint	<140 ppm	Gym building; exterior east wall, concrete, tan, good condition	R.J. Lee Group
LB23881.003-1023	Paint	200 ppm	Main building; exterioer, west, lower wall, concrete, tan, good condition	R.J. Lee Group

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
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Client: PBS Engineering and Environmental
4412 SW Corbett Avenue
Portland, OR 97239

Report Number: 153641R01
Report Date: 12/31/2015
P.O. No: n/a

Job Number: **153641**
Project Name:
Project Number: 23881.003 Phase 0001
Project Notes:

Client Sample ID: **23881.003-0001** **Sample ID:** S1 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
woven material with coating, white	65 %	-	-	-			**NAD**
Layer 02							
fibrous material, golden brown with foil backing	35 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	25 %	-	-	-	-	75 %
Layer 02	-	-	80 %	-	-	-	20 %

Client Sample ID: **23881.003-0002** **Sample ID:** S2 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
granular compact powder, light gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

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Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0003 **Sample ID:** S3 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, light gray with paint, white	100 %	-	4 %	-	**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	15 %	70 %	-	-	11 %

Client Sample ID: 23881.003-0004 **Sample ID:** S4 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with fine compact powder, white	15 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, white	85 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	98 %

Client Sample ID: 23881.003-0005 **Sample ID:** S5 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, tan	80 %	Trace	-	-	**< 1 %**
Layer 02					
compact chalky material with paper, white	20 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

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Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0006 **Sample ID:** S6 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with paper backing, white	65 %	-	-	-	**NAD**
Layer 02					
fine compact powder, off-white	5 %	-	-	-	**NAD**
Layer 03					
compact chalky material with paper, white	30 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0007 **Sample ID:** S7 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white with paper backing, brown	50 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, pink	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Asbestos and Environmental Analysis

Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0008 **Sample ID:** S8 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
fibrous material, off-white	100 %	45 %	-	-			**45 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	45 %	-	-	-	-	10 %

Client Sample ID: 23881.003-0009 **Sample ID:** S9 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
compressed fibers, tan/gray with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	45 %	45 %	-	-	-	10 %

Client Sample ID: 23881.003-0010 **Sample ID:** S10 **Date Analyzed:** 12/28/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
compressed fibers, light gray with paint, white	100 %	-	2 %	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	98 %

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Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0011 **Sample ID:** S11 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, white	99 %	-	-	-			**NAD**
Layer 02							
mastick orange/black	1 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %

Client Sample ID: 23881.003-0012 **Sample ID:** S12 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, white	95 %	-	-	-			**NAD**
Layer 02							
mastic, black	5 %	3 %	-	-			**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	97 %

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Report Date: 12/31/2015

Client Sample ID: 23881.003-0013 **Sample ID:** S13 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, off-white	90 %	-	-	-			**NAD**
Layer 02							
compact powder, white with mastic, black	10 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	2 %	-	-		-	-	98 %

Client Sample ID: 23881.003-0014 **Sample ID:** S14 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
mastic, brown	95 %	-	-	-	Anthophyllite- Trace		**< 1 %**
Layer 02							
compressed fibers, golden brown	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-	Talc	Trace	-	100 %
Layer 02	-	100 %	-	-		-	-	0 %

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Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0015 **Sample ID:** S15 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibrous material, beige with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	10 %	55 %	15 %	-	-	-	10 %
						Perlite	10 %

Client Sample ID: 23881.003-0016 **Sample ID:** S16 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
thick paint, red/gray	65 %	-	-	-	**NAD**
Layer 02					
fibrous backing, black	35 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	65 %	-	-	-	-	35 %

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Client Sample ID: 23881.003-0017 **Sample ID:** S17 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white	10 %	-	-	-	**NAD**
Layer 02					
compact chalky material, white	90 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	2 %	1 %	-	-	-	-	97 %

Client Sample ID: 23881.003-0018 **Sample ID:** S18 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, yellow	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0019 **Sample ID:** S19 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, gray	30 %	-	-	-	**NAD**
Layer 02					
mastic, off-white	30 %	-	-	-	**NAD**
Layer 03					
mastic, brown	15 %	-	-	-	**NAD**
Layer 04					
compact powder, white	15 %	-	-	-	**NAD**
Layer 05					
flexible sheet, brown/off-white	10 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %
Layer 03	-	-	-	-	Wollastonite	1 %	-	99 %
Layer 04	-	-	-	-		-	-	100 %
Layer 05	-	-	-	-		-	-	100 %

Client Sample ID: 23881.003-0020 **Sample ID:** S20 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, black	55 %	-	-	-	**NAD**
Layer 02					
mastic, off-white	15 %	-	-	-	**NAD**
Layer 03					
mastic, brown	30 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	3 %	-	-	-	-	97 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0021 **Sample ID:** S21 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, clear	12 %	-	-	-	**NAD**
Layer 02					
vinyl tile, off-white	80 %	-	-	-	**NAD**
Layer 03					
mastic, orange	8 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0022 **Sample ID:** S22 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose mastic, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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BULK SAMPLE ASBESTOS ANALYSIS

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Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0023 **Sample ID:** S23 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
paint, off-white with fine compact powder, white	15 %	Trace	-	-			**< 1 %**
Layer 02							
compact chalky material with paper, white	85 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	2 %	-	-		-	-	98 %

Client Sample ID: 23881.003-0024 **Sample ID:** S24 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
rubbery material, brown	85 %	-	-	-			**NAD**
Layer 02							
mastic, brown	10 %	-	-	-	Anthophyllite- Trace		**< 1 %**
Layer 03							
fibrous backing, brown	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-	Talc	2 %	-	98 %
Layer 03	-	100 %	-	-		-	-	0 %

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Job Number: 153641

Report Number: 153641R01
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Client Sample ID: 23881.003-0025 **Sample ID:** S25 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose flaky material, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	15 %	-	-	-	85 %

Client Sample ID: 23881.003-0026 **Sample ID:** S26 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, tan with fine compact powder, white	15 %	-	-	-	**NAD**
Layer 02					
granular compact powder, gray	85 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

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Report Number: 153641R01
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Client Sample ID: 23881.003-0027 **Sample ID:** S27 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, pebbled, off-white/gray	35 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray	30 %	-	-	-	**NAD**
Layer 03					
hard compact powder, off-white	35 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	80 %	-	-	-	-	20 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0028 **Sample ID:** S28 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, pebbled, gray	65 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray	30 %	-	-	-	**NAD**
Layer 03					
cementitious material, gray	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	5 %	75 %	-	-	-	-	20 %
Layer 03	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.003-0029 **Sample ID:** S29 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
compressed wood fibers, brown	20 %	-	-	-			**NAD**
Layer 02							
mastic, brown	75 %	-	-	-	Anthophyllite- 2 %		**2 %**
Layer 03							
fibrous backing, brown	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	99 %	-	-	-	-	1 %
Layer 02	-	-	-	-	-	-	98 %
Layer 03	-	90 %	-	-	-	-	10 %

Client Sample ID: 23881.003-0030 **Sample ID:** S30 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
paint, purple with fine compact powder, white	65 %	-	-	-			**NAD**
Layer 02							
compressed wood fibers, brown	35 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	99 %	-	-	-	-	1 %

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Client Sample ID: 23881.003-0031 **Sample ID:** S31 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, orange	40 %	-	-	-	**NAD**
Layer 02					
compressed fibers, brown with paint, white	60 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	90 %	-	-	-	-	10 %

Client Sample ID: 23881.003-0032 **Sample ID:** S32 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, blue with fine compact powder, tan	25 %	-	-	-	**NAD**
Layer 02					
paint, blue with fine compact powder, white	25 %	-	-	-	**NAD**
Layer 03					
compact chalky material with paper, white	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	2 %	-	-	-	-	98 %

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Client Sample ID: 23881.003-0033 **Sample ID:** S33 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
mastic, orange	12 %	-	-	-			**NAD**
Layer 02							
vinyl tile, red	57 %	8 %	-	-			**8 %**
Layer 03							
mastic, black	6 %	-	-	-			**NAD**
Layer 04							
fibrous material, black	25 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	92 %
Layer 03	-	5 %	-	-	-	-	95 %
Layer 04	-	75 %	-	-	-	-	25 %

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Client Sample ID: 23881.003-0034 **Sample ID:** S34 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, gray	10 %	-	-	-	**NAD**
Layer 02					
fibrous backing, gray with mastic, off-white	8 %	-	-	-	**NAD**
Layer 03					
mastic, yellow	10 %	-	-	-	**NAD**
Layer 04					
vinyl tile, yellow/brown	40 %	-	-	-	**NAD**
Layer 05					
mastic, black	5 %	Trace	-	-	**< 1 %**
Layer 06					
vinyl tile, red	15 %	8 %	-	-	**8 %**
Layer 07					
fibrous tar backing, black	12 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	80 %	-	-	-	-	20 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	-	100 %
Layer 05	-	-	-	-	-	-	100 %
Layer 06	-	-	-	-	-	-	92 %
Layer 07	-	75 %	-	-	-	-	25 %

Client Sample ID: 23881.003-0035 **Sample ID:** S35 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, orange with carpet fibers, blue	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	5 %	-	-	95 %

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Client Sample ID: 23881.003-0036 **Sample ID:** S36 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
fibrous tar material, black	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	75 %	-	-	-	-	25 %

Client Sample ID: 23881.003-0037 **Sample ID:** S37 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, white	96 %	-	-	-			**NAD**
Layer 02							
mastic, yellow	4 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.003-0038 **Sample ID:** S38 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with coating, tan/green	5 %	-	-	-	**NAD**
Layer 02					
hard compact powder, white	45 %	-	-	-	**NAD**
Layer 03					
granular compact powder, gray	25 %	-	-	-	**NAD**
Layer 04					
compact chalky material with paper, white	25 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	4 %	-	-	-	-	96 %

Client Sample ID: 23881.003-0039 **Sample ID:** S39 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine cementitious material, gray	80 %	-	-	-	**NAD**
Layer 02					
ceramic tile, white/green	18 %	-	-	-	**NAD**
Layer 03					
loose chalky material, white	2 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.003-0040 **Sample ID:** S40 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
ceramic tile, green	90 %	-	-	-	**NAD**
Layer 02					
fine cementitious material, gray	5 %	-	-	-	**NAD**
Layer 03					
fine cementitious material, dark gray	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0041 **Sample ID:** S41 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, brown with coating, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0042 **Sample ID:** S42 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
loose fibrous material, yellow	10 %	-	-	-	**NAD**
Layer 02					
thick mastic, brown with coating, white	90 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	100 %	-	-	-	-	-	0 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0043 **Sample ID:** S43 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
hard rubbery material, dark brown	85 %	-	-	-	**NAD**
Layer 02					
mastic, dark brown with granular compact powder, white	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.003-0044 **Sample ID:** S44 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
mastic, brown	65 %	-	-	-			**NAD**
Layer 02							
compact chalky material with paper, white	35 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	2 %	-	-		-	-	98 %

Client Sample ID: 23881.003-0045 **Sample ID:** S45 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
compressed wood fibers, brown	15 %	-	-	-			**NAD**
Layer 02							
mastic, dark brown	50 %	-	-	-	Anthophyllite- Trace		**< 1 %**
Layer 03							
mastic, brown	25 %	-	-	-			**NAD**
Layer 04							
fibrous backing, brown	10 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	100 %	-	-		-	-	0 %
Layer 02	-	-	-	-	Talc	2 %	-	98 %
Layer 03	-	-	-	-		-	-	100 %
Layer 04	-	90 %	-	-		-	-	10 %

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Client Sample ID: 23881.003-0046 **Sample ID:** S46 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
loose flaky material, white	4 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, tan	96 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	-	95 %

Client Sample ID: 23881.003-0047 **Sample ID:** S47 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, green with granular compact powder, white	10 %	-	-	-	**NAD**
Layer 02					
granular compact powder, gray	15 %	-	-	-	**NAD**
Layer 03					
compact chalky material with paper, white	70 %	-	-	-	**NAD**
Layer 04					
thin powder, white with fibrous backing, brown	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	4 %	-	-	-	-	96 %
Layer 04	-	-	-	-	-	-	100 %

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Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0048 **Sample ID:** S48 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
paint, white with fine compact powder, white	10 %	-	-	-	**NAD**
Layer 02					
fine compact powder, off-white with paper backing, gray	20 %	-	-	-	**NAD**
Layer 03					
fine compact powder, off-white with paper backing, white	20 %	-	-	-	**NAD**
Layer 04					
fine compact powder, off-white	35 %	-	-	-	**NAD**
Layer 05					
loose chalky material, white	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %
Layer 04	-	-	-	-	-	-	100 %
Layer 05	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0049 **Sample ID:** S49 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, tan	50 %	-	-	-	**NAD**
Layer 02					
compressed wood fibers, brown	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	100 %	-	-	-	-	0 %

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Client Sample ID: 23881.003-0050 **Sample ID:** S50 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fibrous material, dark gray	20 %	-	-	-	**NAD**
Layer 02					
textured fibrous material, brown	80 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	100 %	-	-	-	0 %
Layer 02	-	100 %	-	-	-	0 %

Client Sample ID: 23881.003-0051 **Sample ID:** S51 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular material, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	1 %	-	-	-	99 %

Client Sample ID: 23881.003-0052 **Sample ID:** S52 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compact chalky material with paper, white	45 %	-	-	-	**NAD**
Layer 02					
mastic, brown	55 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	4 %	-	-	-	96 %
Layer 02	-	1 %	-	-	-	99 %

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Client Sample ID: 23881.003-0053 **Sample ID:** S53 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibrous material, tan with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	10 %	65 %	-	-	-	-	10 %
						Perlite	15 %

Client Sample ID: 23881.003-0054 **Sample ID:** S54 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
flaky material, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	12 %	-	-	-	-	88 %

Client Sample ID: 23881.003-0055 **Sample ID:** S55 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compressed fibers, orange	50 %	-	-	-	**NAD**
Layer 02					
mastic, brown	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	100 %	-	-	-	-	0 %
Layer 02	-	1 %	-	-	-	-	99 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0056 **Sample ID:** S56 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
loose tar debris, black	100 %	Trace	-	-			**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	5 %	8 %	-	-	-	-	87 %

Client Sample ID: 23881.003-0057 **Sample ID:** S57 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
fibrous material, white	5 %	-	-	-			**NAD**
Layer 02							
fibrous material, brown	45 %	-	-	-			**NAD**
Layer 03							
loose tar debris, black	50 %	Trace	-	-			**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	100 %	-	-	-	0 %
Layer 02	-	100 %	-	-	-	-	0 %
Layer 03	2 %	6 %	-	-	-	-	92 %

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Client Sample ID: 23881.003-0058 **Sample ID:** S58 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
coarse cementitious material, gray	65 %	-	-	-			**NAD**
Layer 02							
mastic, brown	25 %	-	-	-			**NAD**
Layer 03							
compressed fibers, orange	10 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	100 %	-	-	-	-	0 %

Client Sample ID: 23881.003-0059 **Sample ID:** S59 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
compressed fibers, orange	80 %	-	-	-			**NAD**
Layer 02							
mastic, brown	20 %	-	-	-	Anthophyllite- Trace		**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	100 %	-	-	-	-	0 %
Layer 02	-	1 %	-	-	1 %	-	98 %

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Client Sample ID: 23881.003-0060 **Sample ID:** S60 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, gray	96 %	-	-	-	**NAD**
Layer 02					
mastic, yellow/gray	2 %	-	-	-	**NAD**
Layer 03					
fine powder, off-white	2 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %
Layer 03	-	3 %	-	-	-	-	97 %

Client Sample ID: 23881.003-0061 **Sample ID:** S61 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white with paint, off-white	25 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, white	75 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	1 %	5 %	-	-	-	-	94 %

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Client Sample ID: 23881.003-0062 **Sample ID:** S62 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibrous material, tan with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	10 %	65 %	-	-	-	-		13 %
							Perlite	12 %

Client Sample ID: 23881.003-0063 **Sample ID:** S63 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, tan	99 %	-	-	-	**NAD**
Layer 02					
mastic, black	1 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	95 %

Client Sample ID: 23881.003-0064 **Sample ID:** S64 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, light brown	95 %	-	-	-	**NAD**
Layer 02					
mastic, light brown	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Client Sample ID: **23881.003-0065** **Sample ID:** S65 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl, tan	50 %	-	-	-			**NAD**
Layer 02							
fibrous backing, tan	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	35 %	-	10 %	-	-	55 %

Client Sample ID: **23881.003-0066** **Sample ID:** S66 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
compressed fibrous material, orange	65 %	-	-	-			**NAD**
Layer 02							
mastic, brown	35 %	-	-	-	Anthophyllite- Trace		**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	100 %	-	-		-	-	0 %
Layer 02	-	1 %	-	-	Talc	3 %	-	96 %

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Client Sample ID: 23881.003-0067 **Sample ID:** S67 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fibrous material, orange	85 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	100 %	-	-	-	-	0 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0068 **Sample ID:** S68 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
thick paint, green with paper, tan	75 %	-	-	-	**NAD**
Layer 02					
mastic, brown	25 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	50 %	-	-	-	-	50 %
Layer 02	-	6 %	-	-	-	-	94 %

Client Sample ID: 23881.003-0069 **Sample ID:** S69 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular powder, black	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.003-0070 **Sample ID:** S70 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white	50 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, white	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	1 %	6 %	-	-	-	-	93 %

Client Sample ID: 23881.003-0071 **Sample ID:** S71 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, white with paint, white	65 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, brown	35 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	2 %	-	-	-	-	98 %
Layer 02	3 %	8 %	-	-	-	-	89 %

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Client Sample ID: 23881.003-0072 **Sample ID:** S72 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, white with paint, blue	20 %	-	-	-	**NAD**
Layer 02					
compact chalky material, brown	80 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	2 %	-	-	-	98 %
Layer 02	-	2 %	-	-	-	98 %

Client Sample ID: 23881.003-0073 **Sample ID:** S73 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fine compact powder, white with paint, yellow/brown	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	3 %	-	-	-	97 %

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Client Sample ID: 23881.003-0074 **Sample ID:** S74 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, blue	10 %	-	-	-	**NAD**
Layer 02					
soft compact powder, gray	90 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	6 %	-	-	-	-	94 %
Layer 02	-	10 %	-	-	-	-	90 %

Client Sample ID: 23881.003-0075 **Sample ID:** S75 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white with paint, light blue	35 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, white	65 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	1 %	5 %	-	-	-	-	94 %

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Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0076 **Sample ID:** S76 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl sheet, beige	50 %	-	-	-			**NAD**
Layer 02							
fibrous backing, gray	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	45 %	-	-	-	-	55 %

Client Sample ID: 23881.003-0077 **Sample ID:** S77 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, tan	98 %	6 %	-	-			**6 %**
Layer 02							
mastic, black	2 %	4 %	-	-			**4 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	94 %
Layer 02	-	-	-	-	-	-	96 %

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Client Sample ID: 23881.003-0078 **Sample ID:** S78 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, black	92 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	5 %	-	-	-	**NAD**
Layer 03					
brittle mastic, brown	3 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0079 **Sample ID:** S79 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
cork, tan	95 %	-	-	-	**NAD**
Layer 02					
mastic, brown	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.003-0080 **Sample ID:** S80 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, orange	99 %	5 %	-	-	**5 %**
Layer 02					
mastic, black	1 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	95 %
Layer 02	-	-	-	-	-	-	98 %

Client Sample ID: 23881.003-0081 **Sample ID:** S81 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, green	99 %	7 %	-	-	**7 %**
Layer 02					
mastic, black	1 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	93 %
Layer 02	-	-	-	-	-	-	97 %

Client Sample ID: 23881.003-0082 **Sample ID:** S82 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, off-white	98 %	-	-	-	**NAD**
Layer 02					
mastic, black	2 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	4 %	-	-	-	-	96 %

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Client Sample ID: 23881.003-0083 **Sample ID:** S83 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fibrous material, white	40 %	-	-	-	**NAD**
Layer 02					
tar, black	15 %	-	-	-	**NAD**
Layer 03					
paper backing, brown	45 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	100 %	-	-	-	0 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	100 %	-	-	-	-	0 %

Client Sample ID: 23881.003-0084 **Sample ID:** S84 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white	65 %	3 %	-	-	**3 %**
Layer 02					
compact chalky material with paper, white	35 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	97 %
Layer 02	-	6 %	-	-	-	-	94 %

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Client Sample ID: 23881.003-0085 **Sample ID:** S85 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
woven fibers, black	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	90 %	-	-	-	-	10 %

Client Sample ID: 23881.003-0086 **Sample ID:** S86 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
fine compact powder, white	65 %	-	-	-			**NAD**
Layer 02							
compact chalky material, white	35 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	1 %	1 %	-	-	-	-	98 %

Client Sample ID: 23881.003-0087 **Sample ID:** S87 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
fine powder, off-white with paint, off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0088 **Sample ID:** S88 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
cementitious material, white with paint, red/green	15 %	-	-	-	**NAD**
Layer 02					
coarse cementitious material, gray	85 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0089 **Sample ID:** S89 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white	35 %	-	-	-	**NAD**
Layer 02					
compact chalky material with paper, white	45 %	-	-	-	**NAD**
Layer 03					
coarse cementitious material, off-white	20 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	-	95 %
Layer 03	-	-	-	-	-	-	100 %

NVLAP LAB CODE 200741-0

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0090 **Sample ID:** S90 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
thick fibers, tan/white	55 %	-	-	-			**NAD**
Layer 02							
mastic, dark brown	45 %	-	-	-	Anthophyllite- Trace		**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	95 %	-	-		-	-	5 %
Layer 02	-	-	-	-	Talc	2 %	-	98 %

Client Sample ID: 23881.003-0091 **Sample ID:** S91 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
flaky material, gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
	-	8 %	-	-		-	-	92 %

Client Sample ID: 23881.003-0092 **Sample ID:** S92 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
ceramic tile, white	90 %	-	-	-			**NAD**
Layer 02							
cementitious material, gray/off-white	10 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-		-	-	100 %
Layer 02	-	-	-	-		-	-	100 %

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Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0093 **Sample ID:** S93 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
ceramic tile, brown	85 %	-	-	-	**NAD**
Layer 02					
fine cementitious material, dark gray	15 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0094 **Sample ID:** S94 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
cementitious material, gray	45 %	-	-	-	**NAD**
Layer 02					
fine cementitious material, gray	55 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0095 **Sample ID:** S95 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
cementitious material, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
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Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0096 **Sample ID:** S96 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
thick paint, white/green	10 %	-	-	-	**NAD**
Layer 02					
fine cementitious material, dark gray	25 %	-	-	-	**NAD**
Layer 03					
coarse cementitious material, gray	65 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0097 **Sample ID:** S97 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, black	65 %	-	-	-	**NAD**
Layer 02					
mastic, brown	35 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

NVLAP LAB CODE 200741-0

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Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0098 **Sample ID:** S98 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, orange	4 %	-	-	-	**NAD**
Layer 02					
vinyl tile, tan	95 %	3 %	-	-	**3 %**
Layer 03					
mastic, black	1 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	2 %	-	-	-	-	98 %
Layer 02	-	-	-	-	-	-	97 %
Layer 03	-	2 %	-	-	-	-	98 %

Client Sample ID: 23881.003-0099 **Sample ID:** S99 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, purple	35 %	-	-	-	**NAD**
Layer 02					
mastic, orange/off-white	65 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

NVLAP LAB CODE 200741-0

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4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153641

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: 23881.003-0100 **Sample ID:** S100 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
putty, light gray with paint, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	6 %	-	94 %

Client Sample ID: 23881.003-0101 **Sample ID:** S101 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, tan	98 %	-	-	-	**NAD**
Layer 02					
mastic, black	2 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	3 %	-	-	-	97 %

Client Sample ID: 23881.003-0102 **Sample ID:** S102 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, orange with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	99 %	-	-	-	1 %

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4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
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Job Number: **153641**

Report Number: 153641R01
Report Date: 12/31/2015

Client Sample ID: **23881.003-0103** **Sample ID:** S103 **Date Analyzed:** 12/30/2015
Client Sample Description: **Analyst:** Stephanie Golden

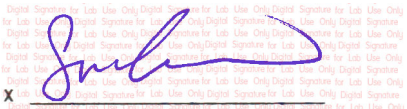
Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
rubbery material, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart E, Appendix A, PLM.

Layered samples are considered non-homogeneous."Misc" is miscellaneous. "NAD" is No Asbestos Detected.
Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
Small diameter fibers such as those found in vinyl floor tiles, may not be detected by PLM.
Asbestos detection interferences may result from material binders.
Qualitative and quantitative TEM analysis may be recommended for difficult samples.
Quantitative analysis by PLM point count or TEM is recommended for samples testing at < or = to 1% asbestos.
The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:



Stephanie Golden
Technical Manager

NVLAP LAB CODE 200741-0

153641
P 1/5

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23881.003 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: December 23, 2015

PBS Engineering and Environmental Inc.
320 N. Johnson Street, Suite 700
Kennewick, WA 99336
509.735.2698, Fax: 866.727.0140

Harmony Kilroy
Name

H Kilroy 12/23/15 2pm
Authorized Signature **Date**

RECEIVER

Date Received: H 12/23/15 2:00

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Abe Solomon
Name

12/23/15
Authorized Signature **Date**

Sender's ID No.	Brief Description	Receiver's ID No.
23881.003-0001		
23881.003-0002		
23881.003-0003		
23881.003-0004		
23881.003-0005		
23881.003-0006		
23881.003-0007		
23881.003-0008		
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23881.003-0014		

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.003-0015		
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TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.003-0041		
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23881.003-0066		

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

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23881.003-0075		
23881.003-0076		
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23881.003-0085		
23881.003-0086		
23881.003-0087		
23881.003-0088		
23881.003-0089		
23881.003-0090		
23881.003-0091		
23881.003-0092		

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TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

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23881.003-0096		
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23881.003-0098		
23881.003-0099		
23881.003-0100		
23881.003-0101		
23881.003-0102		
23881.003-0103		

Please analyze the enclosed 103 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.
Request verbal results by: _____ AM/PM _____ Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: **5 Day**

SPECIAL INSTRUCTIONS:

SD

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Client: PBS Engineering and Environmental
4412 SW Corbett Avenue
Portland, OR 97239

Report Number: 153654R01
Report Date: 12/29/2015
P.O. No: n/a

Job Number: **153654**
Project Name:
Project Number: 23881.003 Phase 0001
Project Notes:

Client Sample ID: **23881.003-0104** **Sample ID:** S1 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fine compact powder, gray/yellow/red, with paint, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: **23881.003-0105** **Sample ID:** S2 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
fine compact powder, gray, with multiple layers of paint	100 %	Trace	-	-	**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	Trace	-	-	-	100 %

Client Sample ID: **23881.003-0106** **Sample ID:** S3 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
rubbery material, white/off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153654

Report Number: 153654R01
Report Date: 12/29/2015

Client Sample ID: 23881.003-0107 **Sample ID:** S4 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
flexible material, green/red/tan	100 %	6 %	-	-			**6 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	94 %

Client Sample ID: 23881.003-0108 **Sample ID:** S5 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
compact powder, green/yellow, with paint, tan	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	100 %

Client Sample ID: 23881.003-0109 **Sample ID:** S6 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
hard compact powder, off-white, with paint, tan	85 %	-	-	-			**NAD**
Layer 02							
fine compact powder, gray	15 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	Trace	-	-	-	-	98 %

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4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153654

Report Number: 153654R01
Report Date: 12/29/2015

Client Sample ID: 23881.003-0110 **Sample ID:** S7 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact powder, green/yellow, with paint, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	Trace	-	-	-	100 %

Client Sample ID: 23881.003-0111 **Sample ID:** S8 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
rubbery material, off-white, with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 23881.003-0112 **Sample ID:** S9 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
paint, tan/gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

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LabCor Portland Inc

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **153654**

Report Number: 153654R01
Report Date: 12/29/2015

Client Sample ID: **23881.003-0113** **Sample ID:** S10 **Date Analyzed:** 12/29/2015
Client Sample Description: **Analyst:** Ellie Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
fibrous material, gray, with flakey material, green	100 %	15 %	-	-			**15 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	Trace	-	-	-	-	85 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart E, Appendix A, PLM.

Layered samples are considered non-homogeneous."Misc" is miscellaneous. "NAD" is No Asbestos Detected.
Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
Small diameter fibers such as those found in vinyl floor tiles, may not be detected by PLM.
Asbestos detection interferences may result from material binders.
Qualitative and quantitative TEM analysis may be recommended for difficult samples.
Quantitative analysis by PLM point count or TEM is recommended for samples testing at < or = to 1% asbestos.
The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:



x _____

Ellie Brown
Analyst

NVLAP LAB CODE 200741-0

153654
P1/2

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23881.003 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: December 24, 2015

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

JAMES BLANCO
Name

Authorized Signature 12/24/15 11:43 **Date**

RECEIVER

Date Received: 12/24/15 12:51pm

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Hillarie Sakes
Name

Authorized Signature 12/24/15 **Date**

Sender's ID No.	Brief Description	Receiver's ID No.
23881.003-0104		
23881.003-0105		
23881.003-0106		
23881.003-0107		
23881.003-0108		
23881.003-0109		
23881.003-0110		
23881.003-0111		
23881.003-0112		
23881.003-0113		

153654
P 2/2

PBS Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 10 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.
Request verbal results by: _____ AM/PM _____ Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: 3 Day TTS 12/24/15 per James

SPECIAL INSTRUCTIONS:

(8)

RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

LABORATORY REPORT

PBS Engineering & Environmental
4412 Southwest Corbett Ave.
Portland, OR 97239

Attn: Raegan Conroy
Phone: 503-248-1939
Fax: 503-248-0223
Email: raegan.conroy@pbsenv.com

RJ Lee Group Job No.: PA281220150002
Samples Received: December 28, 2015
Report Date: December 30, 2015
Client Project: 23881.003 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 7000B-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB23881.003-1001	PA281220150002-001	NP	Lead	< 0.012	< 120	0.012	120	12/29/2015	AN
LB23881.003-1002	PA281220150002-002	NP	Lead	0.021	210	0.013	130	12/29/2015	AN
LB23881.003-1003	PA281220150002-003	NP	Lead	< 0.014	< 140	0.014	140	12/29/2015	AN
LB23881.003-1004	PA281220150002-004	NP	Lead	< 0.013	< 130	0.013	130	12/29/2015	AN
LB23881.003-1005	PA281220150002-005	NP	Lead	0.18	1800	0.014	140	12/29/2015	AN
LB23881.003-1006	PA281220150002-006	NP	Lead	1.3	13000	0.0094	94	12/29/2015	AN
LB23881.003-1007	PA281220150002-007	NP	Lead	< 0.011	< 110	0.011	110	12/29/2015	AN
LB23881.003-1008	PA281220150002-008	NP	Lead	0.37	3700	0.010	100	12/29/2015	AN
LB23881.003-1009	PA281220150002-009	NP	Lead	0.13	1300	0.012	120	12/29/2015	AN
LB23881.003-1010	PA281220150002-010	NP	Lead	0.017	170	0.0098	98	12/29/2015	AN
LB23881.003-1011	PA281220150002-011	NP	Lead	< 0.012	< 120	0.012	120	12/29/2015	AN
LB23881.003-1012	PA281220150002-012	NP	Lead	0.016	160	0.011	110	12/29/2015	AN
LB23881.003-1013	PA281220150002-013	NP	Lead	0.11	1100	0.013	130	12/29/2015	AN
LB23881.003-1014	PA281220150002-014	NP	Lead	0.067	670	0.014	140	12/29/2015	AN
LB23881.003-1015	PA281220150002-015	NP	Lead	0.18	1800	0.012	120	12/29/2015	AN
LB23881.003-1016	PA281220150002-016	NP	Lead	0.60	6000	0.017	170	12/29/2015	AN
LB23881.003-1017	PA281220150002-017	NP	Lead	< 0.015	< 150	0.015	150	12/29/2015	AN
LB23881.003-1018	PA281220150002-018	NP	Lead	0.47	4700	0.012	120	12/29/2015	AN
LB23881.003-1019	PA281220150002-019	NP	Lead	0.80	8000	0.016	160	12/29/2015	AN
LB23881.003-1020	PA281220150002-020	NP	Lead	0.030	300	0.014	140	12/29/2015	AN
LB23881.003-1021	PA281220150002-021	NP	Lead	0.080	800	0.014	140	12/29/2015	AN
LB23881.003-1022	PA281220150002-022	NP	Lead	< 0.014	< 140	0.014	140	12/29/2015	AN
LB23881.003-1023	PA281220150002-023	NP	Lead	0.020	200	0.013	130	12/29/2015	AN

Comments:

Report Qualifiers (Q):

E = Value above highest calibration standard

B = Analyte detected in the associated Method Blank

Philip Grindle
Laboratory Supervisor

RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

LABORATORY REPORT

PBS Engineering & Environmental
4412 Southwest Corbett Ave.
Portland, OR 97239

Attn: Raegan Conroy
Phone: 503-248-1939
Fax: 503-248-0223
Email: raegan.conroy@pbsenv.com

RJ Lee Group Job No.: PA281220150002
Samples Received: December 28, 2015
Report Date: December 30, 2015
Client Project: 23881.003 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 7000B-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		

P *: PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)*
N *: NY ELAP Accredited (NY ELAP Lab Code 10884)*
C *: CA ELAP Accredited (CA ELAP Certificate 1970)*
A *: AIHA-LAP, LLC Accredited (Lab ID 100364)*
J = Value below lowest calibration standard but above MDL (Method Detection Limit)
L = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery outside accepted recovery limits
H = Holding times for preparation or analysis exceeded
S = Spike Recovery outside accepted limits
R = RPD (relative percent difference) outside accepted limits
D = RL (reporting limit verification) outside accepted limits
NP = Not Provided
— : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of accredidations

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.
This laboratory operates in accord with ISO 17025:2005 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to http://www.rjlg.com/about-us/accreditations/ for more information and current status. Unless it is specifically stated otherwise (under the Q column using the appropriate accrediting agency qualifier(s)) the work contained in this report is performed under RJLG's General Quality System requirements and is not part of any scope of accreditations. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

Unless otherwise noted (either in the comments section of the report and/or with the appropiate qualifiers under the report qualifiers (Q) column) the following apply: (a) Samples were received in good condition, (b) All QC samples are within acceptable established limits, (c) All samples designated as NELAP meet the requirements of the NELAC standard; if not applicable qualifiers will be used to designate the non-compliance and (d) Results have not been blank corrected. Quality Control data is available upon request.

Philip Grindle
Laboratory Supervisor

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 23881.003 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: December 24, 2015

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Raegan Conroy
Name

Authorized Signature 12.24.15 **Date**

RECEIVER

Date Received: 12-28-15 10:30

Company: R.J. Lee Group
Address: 350 Hochberg Road
Monroeville, PA 15146
724-325-1776

Name

Authorized Signature 12-28-15 **Date**

Sender's ID No.	Brief Description	Receiver's ID No.
LB23881.003-1001		
LB23881.003-1002		
LB23881.003-1003		
LB23881.003-1004		
LB23881.003-1005		
LB23881.003-1006		
LB23881.003-1007		
LB23881.003-1008		
LB23881.003-1009		
LB23881.003-1010		
LB23881.003-1011		
LB23881.003-1012		
LB23881.003-1013		
LB23881.003-1014		
LB23881.003-1015		
LB23881.003-1016		
LB23881.003-1017		
LB23881.003-1018		

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

LB23881.003-1019 _____ _____

LB23881.003-1020 _____ _____

LB23881.003-1021 _____ _____

LB23881.003-1022 _____ _____

LB23881.003-1023 _____ _____

ANALYSIS REQUESTED:

LEAD:
- [x] Paint
- [ ] Wipe
- [ ] Soil/Misc.
- [ ] Air
- [ ] TCLP

Please analyze the enclosed 23 sample(s) for LEAD content using Atomic Absorption Method. PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

72 Hour

SPECIAL INSTRUCTIONS:

CB

FINDINGS OF FACT
FOR EXEMPTION FROM COMPETITIVE BIDDING AND
THE USE OF THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR
(CM/GC) METHOD OF CONTRACTING FOR REYNOLDS SCHOOL DISTRICT #7
THREE NEW REPLACEMENT ELEMENTARY SCHOOLS

1. General

ORS 279C.335(2) permits a local contract review board to exempt contracts from traditional competitive bidding upon approval of findings of fact showing that an alternative contracting process is unlikely to encourage favoritism or diminish competition and that the process will result in substantial cost savings to the School District. The Reynolds School District ("District"), through its School Board, acts as the Local Contract Review Board ("LCRB") for the District.

ORS 279C.400 – ORS 279C.410 describe the Request for Proposals method of solicitation as an alternative to traditional competitive bidding. Pursuant to ORS 279C.410(8), a public Agency using the Request for Proposals method may award a contract to the responsible proposer "whose proposal is determined in writing to be the most advantageous to the contracting agency based on the evaluation factors set forth in the request for proposals and, when applicable, the outcome of any negotiations authorized by the request for proposals."

ORS 279C.330 defines "Findings" and identifies specific information to be provided as a part of the District justification. Under ORS 279C.335(5) a public hearing must be held before the findings are adopted, allowing an opportunity for interested parties to comment on the draft findings.

PURPOSE OF THESE FINDINGS: The Reynolds School District will hold a public hearing as required by ORS 279C.335 and makes the following findings with respect to the issue of whether three new replacement Elementary School projects ("Projects"), as defined herein, should be exempt from competitive bidding. The District seeks to utilize the CM/GC method of alternative method of contracting. The Findings of Facts apply to the CM/GC method of public improvement Projects described below, in accordance with ORS 279C.335(2).

2. Background

Reynolds School District serves 11,722 students in 18 schools.

After a two-year facilities study, the facilities master plan was adopted in October 2014. A community task force then prioritized the Projects. The bond measure would pay for $125 million of the Projects. The tax rate is estimated to be the same as the 2014 tax rate.

The District plans to replace three of its oldest schools on their current properties. Fairview and Troutdale elementary schools are 88 years old and Wilkes is 101 years old. According to the

facilities study, the high school is over student capacity by 750 students. Proceeds from the bond would add classroom space, renovate science labs, and make technology and security improvements at all schools.

Specifically, this bond measure would allow the District to pay for capital construction and improvements to schools:

- Constructing, furnishing and equipping three new elementary school buildings on their present sites of Fairview, Troutdale and Wilkes, including demolition and related site improvements. This will include anticipated off-site improvements as well as design and construction of new play areas and green spaces.

The nature of these Projects will require strategic planning, complicated scheduling, and critical coordination of construction and target value design integrated with necessary safety measures. These Projects will be at a higher risk and have a high level of technical complexity due to the amount of renovation work, will be governed by significant schedule constraints with security and safety concerning children occupying the sites during much of the construction, will require complex phasing, and will contain budget limitations that require close monitoring of these Projects' budget. Therefore, it becomes critical to maintain schedule, budget, safe and secure sites for these Projects.

In consideration of these facts, an alternate method of construction of these public improvements should be considered. Therefore, the following findings support an exemption from competitive bidding and the use of the Request for Proposal for Construction Manager/General Contractor services as an alternative method of construction contracting.

FINDINGS OF FACT

SUMMARY FINDINGS

Use of the CM/GC process for the "Projects" complies with the criteria outlined in ORS 279C.335(2):

1. It is unlikely the exemption will encourage favoritism or substantially diminish competition. The selection process will be fair and open to all interested proposers as established within the findings below.

2. The exemption will result in substantial cost savings to the District. The District has found several areas in which substantial cost savings to the District will be achieved. Also, value will be added to the Projects that could not otherwise be obtained.

SPECIFIC FINDINGS which substantiate the summary findings are as follows:

1. **The CM/GC will be selected through a competitive process in accordance with the qualifications-based selection process authorized by the District. Therefore, it is unlikely that the awarding of the construction contract for the Projects will encourage favoritism or substantially diminish competition. This finding is supported by the following:**

   A. **SOLICITATION PROCESS:** Pursuant to ORS 279C.360, the CM/GC solicitation will be advertised at least once in the Daily Journal of Commerce, and in as many additional issues of publication as the District may determine.

   B. **FULL DISCLOSURE:** To ensure full disclosure of all information, the Request for Proposals solicitation package will include:

      a. Detailed Description of the Projects
      b. Contractual Terms and Conditions
      c. Selection Process
      d. Evaluation Criteria
      e. Role of Evaluation Committee
      f. Provisions for Comments
      g. Complaint Process and Remedies Available

   C. **COMPETITION:** As outlined below, the District will follow processes which maintain competition in the procurement of a CM/GC.

      a. The District anticipates that competition for this contract will be similar to that experienced in other projects of this type. The competition will remain open to all qualifying proposers.

      b. The District has been communicating with the construction contracting community as well as the engineering consulting community about the CM/GC contracting method.

      c. The evaluation and solicitation process employed will be open and impartial. Selection will be made on the basis of final proposal scores derived from price and other components, which expand the ground of competition beyond price alone to include experience, quality, innovation factors, etc.

      d. The competitive process used to award subcontracts for all competitively bid construction work will be specified in the CM/GC contract and will be monitored by the District. The District will designate in the contract the proposed percentage of construction work that must be subcontracted and may not be self performed by the CM/GC.

D. SELECTION PROCESS: Other highlights of the selection process will include:

a. A pre-proposal vendor conference will be announced and held. This conference will be open to all interested parties. During this pre-proposal conference, as well as any time prior to ten (10) days before the close of the solicitation, interested parties will be able to ask questions, request clarifications and suggest changes in the solicitation documents if such parties believe that the terms and conditions of the solicitation are unclear, inconsistent with industry standards, or unfair and unnecessarily restrictive of competition.

b. The evaluation process will determine whether a proposal meets the screening requirements of the RFP, and to what extent. The following process will be used:

- Proposals will be evaluated for completeness and compliance with the screening requirements of the RFP. Those proposals that are materially incomplete or non-responsive will be rejected.

- Proposals considered complete and responsive will be evaluated to determine if they meet and comply with the qualifying criteria of the RFP. If a proposal is unclear, the proposer may be asked to provide written clarification. Those proposals that do not meet all requirements will be rejected.

- Proposals will independently be scored by the voting members of the Evaluation Committee. Scores will then be combined and assigned to the proposals.

- The Evaluation Committee will convene to select from the highest-scoring proposers, a finalist(s) for formal interviews.

- The Evaluation Committee will conduct the interviews.

- The Evaluation Committee will use the interview to confirm the scoring of the proposal and to clarify any questions. Based upon the revised scoring, the Evaluation Committee will rank the proposers, and provide an award recommendation.

- The Reynolds School District will negotiate a contract with the top-ranked firm. If an agreement cannot be reached, the District will have the option to enter into an agreement with the second-ranked firm, and so forth.

c. Competing proposers will be notified in writing of the selection of the apparent successful proposal and will be given seven (7) calendar days after receipt of the notice to review the RFP file and evaluation report at the District Office. Any questions, concerns, or protests about the selection process will be subject to the requirements of the OAR 137-0 49-0450, must be in writing, and must be delivered to the Reynolds School District within seven (7) calendar days after receipt of the

selection notice. No protest of the award selection shall be considered after this time period.

d. The contract achieved through this process will require the CM/GC to use an open competitive selection process to bid all components of the job. The CM/GC's general conditions and fee makes up 10-15% of the total cost, and will be evaluated as one of the scoring criteria. General Conditions, which include supervision, bonding, insurance, and mobilization, must be within the industry standard range of approximately 10%. The CM/GC's fee must be within the industry standard range of 3-5%. Since these amounts will be scored as part of the competitive RFP process, the entire dollar value of the Projects will be awarded through open competitive processes, at either the general contractor or subcontractor level.

2. FINDING: The awarding of construction contract(s) for the Projects using the CM/GC method will likely result in substantial cost savings to the District. This finding is supported by the following information required by ORS 279C.335(2)(b) and ORS 279C.330.

A. OPERATIONAL, BUDGET, FINANCIAL DATA

a. BUDGET: The District has a fixed budget available for the "Projects" that cannot be exceeded. The completion date cannot be exceeded. Early reliable pricing provided by the CM/GC or other alternatively contracted contractor during the design phase will reduce the potential for time delays due to later discovery of higher-than-anticipated costs and consequent changes of direction.

b. LONG TERM COSTS: The Projects will require expertise regarding the constructability and long-term cost/benefit analysis of innovative design. That knowledge is best obtained directly from the construction industry. Many decisions will be required during the design process that will encompass immediate feedback on constructability and pricing. Under the traditional design-bid-build process, there is a high risk of increased change orders and schedule impacts for Projects of this size and complexity. Since there are significant costs associated with delay, time is of the essence. The CM/GC process will assist in providing a scope of work and constructible design that best meet the requirements of the Projects with significantly lower risk to the Projects' costs. Involving the CM/GC during design will allow Projects' risks to be addressed early and teamwork between the District, the design consultant, and the construction contractor (CM/GC) to minimize those risks.

c. FEWER CHANGE ORDERS: When the CM/GC participates in the design process, fewer change orders occur during project construction. This is due to the CM/GC's better understanding of the owner's needs and the architect's design intent. As a result, the Projects are more likely to be completed on time and within budget. In addition, fewer change orders reduce the administrative costs of project management for both the District and the contractor.

d. GMP CHANGE ORDERS COST LESS: The fewer CM/GC change orders discussed above will be processed at a lower cost under the GMP. The design-bid-build method typically results in the contractor charging 15% markup on construction change orders. The GMP method applies lower predetermined markups. The experience of the industry has been that the markup is in the range of 3-5%.

e. SAVINGS: Under the GMP method the District will enjoy the full savings, if actual costs are below the GMP. When the CM/GC completes the Projects, any savings between the GMP and the actual cost accrue to the District.

f. CONTRACTOR'S FEE IS LESS: Contracts with CM/GC's are designed to create a better working relationship with the contractor. As a consequence, the overhead and profit fee is generally in the 3-5% range, and the contractors indicate this is slightly lower than the fee anticipated on similar design-bid-build contracts.

g. FUNDING SOURCE: The Projects will be funded by the sale of general obligation bonds.

B. PUBLIC BENEFITS

a. TIME SAVINGS: Use of CM/GC or other alternative contracting methods will allow construction work to commence relatively rapidly on some portions of the work while design continues on the remaining portions. This will shorten the overall duration of the construction and provide for completion of the Projects by the due date. It becomes critical to maintain both the schedule and budget of these Projects that the coordination of the District personnel and their facilities be fully evaluated and understood, and that construction work proceeds throughout with all necessary care given to the safety security of the District's students and personnel.

b. COST SAVINGS: The Projects will benefit from the active involvement of a CM/GC contractor or other alternative contracting method during the design process in the following ways:

- The contractor's input regarding the constructability and cost-effectiveness of various alternatives will guide the design toward the most economic choices.

- Consideration of the specific equipment available to the contractor will allow the designer to implement solutions that utilize the capacity of that equipment.

- The contractor will be able to provide current and reliable information regarding the cost of materials that are experiencing price volatility and the availability of scarce materials.

- The contractor will also be able to order materials while design is being completed in order to avoid inflationary price increases and provide the lead-time that may be required for scarce materials.

c. GUARANTEED MAXIMUM PRICE (GMP) ESTABLISHES A MAXIMUM PRICE PRIOR TO COMPLETION OF DOCUMENTS: The CM/GC will be able to obtain a complete understanding of the District's needs, the architect's design intent, the scope of the Projects, and the operational needs of the individual School Projects by participating in the construction document phase. With the CM/GC participating in this phase they will be able to offer suggestions for improvement and make suggestions that will reduce costs. With the benefit of this knowledge, the CM/GC will also be able to guarantee a maximum price to be paid by the District for constructing the Projects.

C. **VALUE ENGINEERING**

a. **WITH THE DESIGN-BID-BUILD PROCESS:** If the District were to utilize the design-bid-build method, the contractor would not participate in this evaluation. In conducting value engineering under the design-bid-build approach, a value engineering consultant is hired to participate in the design and cost evaluation process. This process adds extra costs and administrative complications, without providing the same benefits of early contractor participation.

b. **WITH CM/GC:** The CM/GC process offers a unique opportunity for value engineering that is not possible through the design-bid-build process. An essential part of each construction project is the value engineering evaluation. Value engineering is the means used to determine the best project design that meets the needs and priorities of the owner, within the owner's budget. Value engineering is done most effectively by a team consisting of the owner, architect, consultants, and the contractor. When the contractor participates, the team can render the most comprehensive evaluation of all factors that affect the cost, quality, and schedule of the project.

The CM/GC method has the benefit of:

-the ability to set the schedule;
-the ability to sequence work; and
-commitment from the contractor to implement the design within the schedule and budget.

Through integrated participation, a project's scope and design evolve that has greater value for the owner, and is not likely to be the same project created by the design-bid-build method.

D. **SPECIALIZED EXPERTISE:** Early selection of the CM/GC creates more informed, better quality decision making by the project's construction team. A more efficient construction team saves the District money.

The construction Projects are highly complex because they involve significant construction over a short mandated period of construction. Use of a CM/GC in conjunction with the team approach will result in better coordinated projects, speedy completion, and minimize disruption to operations. The CM/GC clarifies several critical variables valuable to the

Projects' design. The CM/GC: guarantees the maximum price (GMP) to complete the Projects; determines the construction schedule; establishes the sequence of work; is contractually bound to implement the final Projects' design within the GMP; and participates as an essential member of the Projects' design and construction team.

Several benefits of participation by the CM/GC on these Projects will be realized: developing the design documents to reflect the best work plan that accommodates the District, the design team, and contractor; the best grouping of the bid packages that will help insure better trade coverage; the most efficient construction staging area on 2015 Bond Projects; the most cost effective route through the campus and buildings for the various utilities; and to help in adjusting the work plan when the needs change along the way. This component cannot be addressed by the usual design/bid/build method of construction because the usual method is skewed towards the lowest bidder.

E. PUBLIC SAFETY: All work must be coordinated to avoid safety and security risks to the students, employees, and the general public and to ensure efficiency in construction. The coordination between the District, designer and the CM/GC will assure coordination of work and consideration for the safety of vehicular and pedestrian paths crossed by the Projects. In addition, CM/GC contracting of the Projects will ensure that public safety and security is being effectively managed in a "fast track" mode to minimize delays.

F. MARKET CONDITIONS: As well as the multitude of construction market factors that exist today in Oregon (e.g., competition of other projects, environmental issues that limit construction materials, variable bid market, high unemployment, etc.), the difficulty in establishing the best work sequence complicates our ability therefore, to accurately estimate the cost of these Projects. The economy today makes it necessary for many contractors to bid for jobs for which they might not be qualified. Alternative contracting methods will be more likely to result in a more experienced and better suited contractor for these particular Projects than the usual competitive procurement. The complexities which need to be addressed to accomplish the tasks are not well served by the usual competitive procurement. The lowest bidder may not be the best suited for these particular Projects.

G. **TECHNICAL COMPLEXITY:** Technical expertise will be required for environmental management, quality management, scheduling, estimating, meeting sustainable facilities standards and guidelines, and ensuring energy efficiency. The complexity and scheduling issues discussed in the Background section above will require special expertise. However, the Projects will draw upon existing skills and capabilities available in the construction community, as the Projects present overall challenges similar to those faced on many public works projects. Specialized skills will be required of the CM/GC to negotiate and price multiple options and schedule complex tasks. A high level of coordination among the District and all the design and construction entities is required and facilitated by the CM/GC approach.

H. **FUNDING SOURCES:** The District intends to fund the Projects with the sale of general obligation bonds providing the available funds of $125,000,000, as provided from the 2015 Bond Election last May.

RESOLUTION NO. LCRB 2015-2016-002

RESOLUTION GRANTING EXEMPTION FROM COMPETITIVE BIDDING FOR CONSTRUCTION OF 2015 BOND PROJECTS BY MEANS OF A CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND AUTHORIZING SELECTION BY REQUEST FOR PROPOSALS

WHEREAS, the Reynolds School District ("District") acts as the local contract review board for the District, and in that capacity has authority to exempt certain contracts from the competitive bidding requirements of ORS Chapter 279C; and

WHEREAS, ORS 279C.335(2) provides a process for exempting certain contracts from competitive bidding and authorizes the selection of a contractor through the request for proposal ("RFP") process; and

WHEREAS, draft findings ("Findings") addressing competition, operational, budget and financial data, public benefits, value engineering, specialized expertise required, market conditions, technical complexity, public safety and funding sources recommended by the District were available 14 days in advance of the public hearing on this Resolution; and

WHEREAS, the District determines that the **Three New Replacement Elementary School Projects** should be constructed by a CM/GC. NOW THEREFORE,

The District finds as follows:

1. The District adopts the Findings set forth in Exhibit A to this Resolution.

2. The exemption of the CM/GC contract from competitive bidding will promote competition and will not encourage favoritism, because the CM/GC will be chosen by the request for proposals process, and the major portion of the construction work will be performed by subcontractors chosen by competitive bidding.

3. The exemption of the CM/GC contract from competitive bidding is likely to result in substantial cost savings to the District, for the reasons set forth in the adopted Findings.

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NOW, THEREFORE, IT IS HEREBY RESOLVED by the District as follows:

The contract for construction of **Three New Replacement Elementary Schools** by a Construction Manager/General Contractor for a Guaranteed Maximum Price is exempt from competitive bidding, and the CM/GC shall be selected by the Request for Proposal method in accordance with the District's public contracting rules and the process described in the Findings.

This Resolution shall take effect on December 9, 2015.

ADOPTED this 9 day of December, 2015, by the Reynolds School District Board of Directors acting as the Local Contract Review Board.

Dane Nickerson, Chair
Reynolds School District

ATTEST:

Dr. Linda Florence, Superintendent

Reynolds School District (RSD) Local and Diverse Community Engagement Program

BACKGROUND:

The RSD 2015 Bond Projects provides $125M of community investment for capital construction to replace 3 elementary schools, repair/renovate the high school and enhance security / access controls across the district. This exceptional investment also provides a special opportunity to intentionally encourage and promote local and diverse community elements with the performance of the bond work. With development and implementation of this program, project leadership can intentionally connect and benefit local and historically underutilized firms (target firms) / workforce, students / teachers and other stakeholders to RSD 2015 Bond Projects while optimizing community impact and achieving project value. The below provides a framework for expanded community building through the current design and construction processes.

This program seeks to optimize community impact connected to bond work completion.

Holistic Solutions through Intentional Actions.

VISION:

RSD Local & Diverse Community Engagement Program shall positively impact all community stakeholders while modeling successful actions for others, including future RSD work, and establishing RSD as an area leader.

MISSION:

RSD Local & Diverse Community Engagement Program effectively activates Students, Teachers, Neighbors, Area Businesses (especially local / MWESB) and other Stakeholders to optimize project bond spends for continual progress towards district and community goals setting up current and next generation success.

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GUIDING PRINCIPLES:

1. Driven by vision and mission
2. Supports RSD Values: Community Involvement, Engagement, Equity, Excellence, Expectations, Relationships, Relevance, Resilience, Respect, Responsibility & Responsiveness
3. Mindful of RSD culture, history, and traditions
4. Open, inclusive and collaborative
5. Complement project goals of schedule, budget, quality and safety

VALUE PROPOSITION:

The RSD Local & Diverse Community Engagement Program provides exceptional opportunity to positively impact community and create sustainable successes while leveraging existing resources and enabling new partnerships both internal and external to RSD. In addition to complementing the District student focused mission, the program extends benefit across stakeholder sectors transforming the bond work into a real-time, beacon of hope for excellence, equity, and success.

GOALS:

1) <u>Business Equity:</u>
   Enhance M/WESB equity and utilization to well exceed 25% on all bond work while increasing access, readiness, pool and capacity for future opportunities.
2) <u>Student/Career Technical Education (CTE):</u>
   Develop and/or enhance a RSD self-sustaining program for holistic CTE engagement.

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3) Workforce:
   Enhance workforce apprenticeship and diversity (people of color / women) to well exceed 25% of construction trades hours on all bond work including outreach and other apprenticeship program development.

4) Faculty/staff:
   Expand and strengthen existing professional and neighborhood networks of faculty / staff, including local government, business and other partners, for professional development and district mission completion.

5) Social Responsibility & Sustainability:
   Develop resources and experiences that promote active engagement of local interests, focusing on social responsibility and sustainability while creating identifiable, lasting outcomes.

6) Mentor-Protégé:
   Implement a Mentor-Protégé program targeting in district firms for development through the bond period.

7) Partnership:
   Facilitate and activate several new & existing key partners for regular engagement with a RSD community partnership program.

METRICS & DESTINATION POINTS:

The program team shall participate in a kick-off Community Engagement Program meeting. Participants shall include key executive / project management representatives and stakeholders, including students, staff and/or community leaders. This program team shall meet quarterly for review / reporting of program outcomes.

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District Security Badging Process

1
Pick up RSD Security Badge Packet from General Contractor.

2
Employee completes Fingerprint Card with certified agency.

3
Employee completes Background Check form with Notary at certified agency and additional CIS background check form.

4
Return completed packet with additional background check form to RSD Facilities or DAY CPM with valid photo ID and $65.50 for processing fee; a photo will be taken at this time.

5
After 24-48 hour initial background check comes back approved, a photo ID badge can be created.

- **$250 fine for lost badge**
- **$25 fee for reprinting badge if left at home - original badge MUST be returned the next day**
- **Badge must be in possession of employee at all times while on RSD property - All fines and enforcement of security badges are responsibility of the CM/GC**
- **The badging packet must be presented in person with valid form of picture ID to RSD Facilities or DAY CPM representative**

- Security Badging Packet will be distributed by the General Contractor.
- General Contractor can set up a group badging meeting to complete steps 1-4 as a group to expedite the process, a DAY CPM or RSD representative must attend to receive and process background check paperwork.
- Completed packets will not be accepted without the employee appearing in person with valid photo ID.
- The processing fee is $65.50 per packet, checks can be made out to Reynolds School District #7.
- If employee has had an ODE approved background check within the past 3 years, a letter is required from the previous school district to be sent to RSD to waive ODE background check.

APPENDIX B
REYNOLDS SCHOOL DISTRICT
CM/GC CONTRACT

(Construction Manager/General Contractor)

THE CONTRACT IS BETWEEN:

OWNER:
Reynolds School District No. 7
1204 NE 201ST Avenue
Fairview, OR 97024-2499

And

TBD

CONSTRUCTION MANAGER/ GENERAL CONTRACTOR
(referred to in the Standard General Conditions For Public Improvement Contracts as Contractor and referred to herein as "the CM/GC"):

The Project: Reynolds School District New Troutdale Replacement Elementary School

The Architect is:

BLRB Architects
1001 SW 1st Avenue, Suite 1100
Portland, OR 97204

The Owner's Authorized Representative is:

DAY CPM
12745 SW Beaverdam Rd. Ste. #120
Beaverton, OR 97005

The Owner's Target GMP Range is: $ 22.9 Million

STATE OF OREGON

CM/GC CONTRACT

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The Owner and CM/GC agree as set forth below:

ARTICLE 1
DEFINITIONS

Except as expressly defined or modified below or elsewhere in this agreement ("CM/GC Contract"), all capitalized terms shall have the meanings set forth in Section A of Part IV of the State of Oregon Standard General Conditions for Public Improvement Contracts, January 1, 2012, attached as Exhibit A hereto (the "Reynolds School District General Conditions"). The terms below are expressly defined as follows:

1.1 Affiliate. Affiliate shall mean any subsidiary of CM/GC, and any other entity in which CM/GC has a financial interest or which has a financial interest in CM/GC (including without limitation parent companies, related businesses under the same holding company, or any other business controlled by, under common control with, or which controls CM/GC).

1.2 Allowances. Allowances shall mean the allowance amounts shown in the GMP Supporting Documents, together with such further allowances as may be developed by the parties as the Project progresses.

1.3 Amendment. Amendment shall mean a written modification of the Contract (including without limitation any agreed change to the GMP), identified as an Amendment, and executed by CM/GC, the Owner's Authorized Representative, and, where required, approved in writing by the owner.

1.4 Business Days. Business Days shall mean every day except Saturday, Sunday, and legal holidays recognized for employees of Reynolds School District, OR.

1.5 Change Order. Change Order shall mean a written modification of the Contract under Section D.1 of the Reynolds School District General Conditions (including without limitation any agreed change to GMP), identified as a Change Order and executed by the Owner's Authorized Representative, CM/GC, where applicable, and, where required, approved in writing by the Owner.

1.6 CM/GC Field Work. CM/GC Field Work shall mean customary portions of the Work of a minor nature and not feasibly part of the subcontracted work due to: exclusions by the Subcontractor not resolved through the process described in Article 11.3.3, undeveloped design owing to deviations in Work performed or materials delivered by Subcontractors or suppliers that do not represent defective or nonconforming work, a breach or failure to perform by the Subcontractor or supplier, complexity of coordination of the Work, and other similar reasons typically providing cause for "pick-up" or GC Work under industry standards; provided, however, that (i) the CM/GC has reasonably determined that doing such portion of the Work itself is in the best interests of Owner, (ii) such Work is identified as CM/GC Field Work in

monthly billings and (iii) CM/GC receives prior approval of Owner's Authorized Representative as to the scope of such CM/GC Field Work.

1.7 CM Services. CM Services shall have the meaning given in Article 3.3 below.

1.8 Construction Documents. Construction Documents shall have the meaning given in the Reynolds School District Professional Services Agreement with the Architect for this Project.

1.9 Construction Phase. The Construction Phase shall mean the period commencing on the Owner's execution of a GMP Amendment or Early Work Amendment, together with the earlier of (i) issuance by Owner of a Notice to Proceed with any on-site construction or (ii) execution of a subcontract or issuance of a purchase order for materials or equipment required for the Work.

1.10 Construction Phase Services. Construction Phase Services shall mean all of the Work other than the Preconstruction Phase Services.

1.11 Contract Documents. Contract Documents shall have the meaning given in Section A of the Reynolds School District General Conditions, as supplemented by Article 2.1 below.

1.12 Design Development Documents. Design Development Documents shall have the meaning given in the Reynolds School District Professional Services Agreement with the Architect for this Project.

1.13 Early Work. Early Work shall mean Construction Phase Services authorized by Amendment that the parties agree should be performed in advance of establishment of the GMP. Permissible Early Work shall be limited to: early procurement of materials and supplies; early release of bid or proposal packages for site development and related activities; and any other advance work related to critical components of the Project for which performance prior to establishment of the GMP will materially affect the critical path schedule of the Project.

1.14 Early Work Amendment. Early Work Amendment shall mean an Amendment to the Contract executed by and between the parties to authorize Early Work.

1.15 Cost for General Conditions Work. Cost for General Conditions Work or GC Work shall mean that sum identified in Article 8.8 and/or Exhibit C. *[Note: The agency may decide not to fix General Conditions Work costs, but instead may wish to treat them as reimbursable items like all other costs of the Work. If so, this section, and all related sections should be deleted or amended as instructed in Section 8.8]*

1.16 General Conditions Work. General Conditions Work ("GC Work") shall mean (i) that portion of the Work required to support construction operations that is not included within overhead or general expense but is called out as GC Work in Exhibit C, and (ii) any other specific categories of Work approved in writing by the Owner's Authorized Representative as forming a part of the GC Work.

1.17 Guaranteed Maximum Price (GMP). GMP shall mean the Guaranteed Maximum Price of the Contract, as stated in dollars within the GMP Amendment, as determined in accordance with Article 6, and as it may be adjusted from time to time pursuant to the provisions of the Contract.

1.18 GMP Amendment. GMP Amendment shall mean an Amendment to the Contract, issued in the form of Exhibit B and executed by and between the parties, to establish the GMP and identify the GMP Supporting Documents for Construction Phase Services.

1.19 GMP Supporting Documents. GMP Supporting Documents shall mean the documents referenced in the GMP Amendment as the basis for establishing the GMP. The GMP Supporting Documents shall expressly identify the Plans and Specifications, assumptions, qualifications, exclusions, conditions, allowances, unit prices, and alternates that form the basis for the GMP.

1.20 Preconstruction Phase. The Preconstruction Phase shall mean the period commencing on the date of this CM/GC Contract and ending upon commencement of the Construction Phase; provided that if the Owner and CM/GC agree, the Construction Phase may commence before the Preconstruction Phase is completed, in which case both phases shall proceed concurrently, subject to the terms and conditions of the Contract Documents.

1.21 Preconstruction Phase Services. Preconstruction Phase Services shall mean all services described in Article 3.1, and any similar services described in the Request for Proposals, including such similar services as are described in the CM/GC's RFP proposal to the extent they are accepted by Owner, but excluding any Early Work. Early Work shall be considered part of Construction Phase Services.

1.22 Schematic Design Documents. Schematic Design Documents shall have the meaning given in the Reynolds School District Professional Services Agreement with the Architect for this Project.

1.23 Scope Change. Scope Change shall mean only (i) changed site conditions not reasonably inferable from information available to CM/GC at the time of execution of the GMP Amendment, and (ii) significant Work modifications (including additions, substitutions, and deletions), application of Allowances, and selection of alternates, all as approved by the Owner under the Contract beyond that identified or inferable from the GMP Supporting Documents (but in the case of Allowance items, the GMP will increase only if the cost to Owner of the Allowance items exceeds the total amount of the Allowances).

ARTICLE 2
CONTRACT DOCUMENTS

2.1 Contract Documents. For valuable consideration as stated below, Owner and the CM/GC agree to the terms of the contract that are set forth in the Contract Documents. For purposes of this Project, the Contract Document identified as "Public Improvement Contract" in the Reynolds School District General Conditions shall mean this

CM/GC Contract. The CM/GC Contract shall include all exhibits attached hereto, which by this reference are incorporated herein.

2.2 Effective Date. The Contract (hereafter the "Contract") shall become effective on the first date on which every party has signed this CM/GC Contract and Owner has received all necessary approvals.

2.3 The Contract; Order of Precedence. This CM/GC Contract, together with the other Contract Documents, form the entire agreement between the parties. Except as expressly otherwise provided herein, the order of precedence of the Contract Documents is established in Section A.3 of the Reynolds School District General Conditions, if there are inconsistent or conflicting terms among the Contract Documents.

ARTICLE 3
WORK OF THE CONTRACT

3.1 Preconstruction Phase Services. The CM/GC agrees to provide all of the Preconstruction Phase Services described below on an ongoing basis in support of, and in conformance with, the time frames described in the Request for Proposals. Commencement of the Construction Phase shall not excuse CM/GC from completion of the Preconstruction Phase Services, if such services have not been fully performed at commencement of the Construction Phase. Preconstruction Phase Services shall include CM Services performed during the Preconstruction Phase.

3.1.1 The CM/GC shall provide a preliminary evaluation of the Owner's program and budget requirements, each in terms of the other.

3.1.2 The CM/GC shall provide the following services relating to design and preconstruction tasks:

(a) The CM/GC shall consult with, advise, assist, and provide recommendations to the Owner and the design team on all aspects of the planning and design of the Work.

(b) The CM/GC shall jointly schedule and attend regular meetings with the Architect and Owner's Authorized Representative. The CM/GC shall consult with the Owner and Architect and Owner's Authorized Representative regarding site use and improvements, and the selection of materials, building systems and equipment.

(c) The CM/GC shall provide recommendations on construction feasibility; actions designed to minimize adverse effects of labor or material shortages; time requirements for procurement, installation and construction completion; and factors related to construction cost including estimates of alternative designs or materials, preliminary budgets and possible economies.

(d) The CM/GC shall review in-progress design documents, including the documents generally described in the industry as Schematic Development Documents, Design Development Documents, and Construction Documents and provide input and advice on construction feasibility, alternative materials, and availability. CM/GC shall review these completed Schematic Development Documents, Design Development Documents, and Construction Documents and timely suggest modifications to improve completeness and clarity.

3.1.3 The CM/GC shall provide the following services related to the Project schedule:

(a) The CM/GC shall prepare, and periodically update, a preliminary Project schedule for the Architect's and Owner's Authorized Representative's review and the Owner's Authorized Representative's approval.

(b) The CM/GC shall coordinate and integrate the preliminary Project schedule with the services and activities of the Owner, Architect, and CM/GC. As design proceeds, CM/GC shall update the preliminary Project schedule to indicate proposed activity sequences and durations, milestone dates for receipt and approval of pertinent information, submittal of a GMP proposal, preparation and processing of shop drawings and samples, delivery of materials or equipment requiring long-lead time procurement, and Owner's occupancy requirements showing portions of the Project having occupancy priority, provided that the date(s) of Substantial Completion shall not be modified without Owner's prior written approval. If preliminary Project schedule updates indicate that previously approved schedules may not be met, the CM/GC shall make appropriate recommendations to the Owner's Authorized Representative and Architect.

3.1.4 The CM/GC shall make recommendations to Architect and Owner's Authorized Representative regarding the phased issuance of Plans and Specifications to facilitate phased construction of the Work, if such phased construction is appropriate for the Project, taking into consideration such factors as economics, time of performance, availability of labor and materials, and provisions for temporary facilities.

3.1.5 The CM/GC shall provide the following services relating to cost estimating:

(a) The CM/GC shall prepare, for the review of the Architect and Owner's Authorized Representative and approval of the Owner, a preliminary cost estimate utilizing area, volume or similar conceptual estimating techniques.

(b) When Schematic Design Documents have been prepared by the Architect and approved by the Owner, the CM/GC shall prepare for the review of the Architect and Owner's Authorized Representative and approval of the Owner, a more detailed estimate with supporting data. During the preparation of the Design Development Documents, the CM/GC shall update and refine this estimate at appropriate intervals agreed to by the Owner, Architect and Owner's Authorized Representative and CM/GC.

(c) When Design Development Documents have been prepared by the Architect and approved by the Owner, the CM/GC shall prepare a detailed estimate with supporting data for review by the Architect and Owner's Authorized Representative and approval by the Owner. During the preparation of the Construction Documents, the CM/GC shall update and refine this estimate at appropriate intervals agreed to by the Owner, Architect and Owner's Authorized Representative and CM/GC.

(d) If any estimate submitted to the Owner exceeds previously approved estimates or the Owner's budget, the CM/GC shall make appropriate recommendations to the Architect and Owner's Authorized Representative.

(e) CM/GC shall notify the Owner and the design team immediately if any construction cost estimate appears to be exceeding the construction budget.

(f) The CM/GC otherwise shall work with the Architect and Owner to develop a GMP within the Target GMP Range and within Owner's schedule.

3.1.6 The CM/GC shall perform the following services relating to Subcontractors and suppliers:

(a) The CM/GC shall seek to develop Subcontractor and supplier interest in the Project, consistent with applicable legal requirements, and shall furnish to the Owner's Authorized Representative and Architect for their information a list of possible Subcontractors and suppliers, including suppliers who may furnish materials or equipment fabricated to a special design, from whom competitive bids, quotes, or proposals (collectively, "Offers") will be requested for each principal portion of the Work. Submission of such list is for information and discussion purposes only and not for prequalification. The receipt of such list shall not require the Owner, Owner's Authorized Representative or Architect to investigate the qualifications of proposed Subcontractors and suppliers, nor shall it waive the right of the Owner or Architect later to object to or reject any proposed Subcontractor, supplier, or method of procurement.

(b) The CM/GC shall provide input to the Owner and the design team regarding current construction market bidding climate, status of key subcontract markets, and other local economic conditions. CM/GC shall determine the division of work to facilitate bidding and award of trade contracts, considering such factors as bidding climate, improving or accelerating construction completion, minimizing trade jurisdictional disputes, and related issues. CM/GC shall advise Owner on subcontracting opportunities for minority/women/ESB firms.

3.1.7 The CM/GC shall recommend to the Owner's Authorized Representative and Architect a schedule for procurement of long-lead time items which will constitute part of the Work as required to meet the Project schedule, which shall be procured by the CM/GC upon execution of either a GMP Amendment or Early Work Amendment covering such procurement, and approval of such schedule by the Owner's Authorized Representative.

The CM/GC shall expedite the delivery of long-lead time items.

3.1.8 The CM/GC shall work with the Owner in identifying critical elements of the Work that may require special procurement processes, such as prequalification of offerors or alternative contracting methods.

3.1.9 The CM/GC shall Work with the Owner and the design team to maximize energy efficiency in the Project, including without limitation providing estimating and value engineering support to the Owner's analysis and application for energy related incentive programs offered by local utilities.

3.2 Construction Phase Services.

3.2.1 Upon execution of an Early Work Amendment or GMP Amendment, the CM/GC shall provide Construction Phase Services as provided in the Contract Documents, including without limitation bidding all remaining work if Early Work Amendments had been executed as noted below, providing and paying for all materials, tools, equipment, labor and professional and non-professional services, and performing all other acts and supplying all other things necessary to fully and properly perform and complete the Work, as required by the Contract Documents, to furnish to Owner a complete, fully functional Project, capable of being legally occupied and fully used for its intended purposes upon completion of the Contract (or, as to an Early Work Amendment, to furnish such Work as is described in the Early Work Amendment). Construction Phase Services shall include CM Services performed during the Construction Phase.

3.2.2 Notwithstanding any other references to Construction Phase Services in this CM/GC Contract, the Contract shall include Preconstruction Phase Services only unless (i) the parties execute a GMP Amendment or (ii) the parties execute an Early Work Amendment, defined below.

3.2.3 The parties may execute one or more Early Work Amendments identifying specific Construction Phase Services that must be performed in advance of establishment of the GMP, without exceeding a not-to-exceed budget, a maximum not-to-exceed price, or a fixed price ("Early Work Price") to be stated in such Amendment, with such Amendment including all necessary State of Oregon approvals where required. If the Early Work Price is a not-to-exceed budget, then CM/GC shall be obligated to perform the Early Work only to the extent that the Cost of Work therefor, together with the CM/GC Fee, does not exceed the Early Work Price; however if CM/CG performs Early Work with a maximum not-to-exceed price or fixed price, and incurs cost in excess of that maximum not-to-exceed price or fixed price, respectively, the CM/GC shall complete the Early Work and pay such excess cost without reimbursement. If one or more Early Work

Amendments are executed, the CM/GC shall diligently continue to work toward development of a GMP Amendment acceptable to Owner, which shall incorporate the Early Work Amendments. If Owner thereafter terminates the Contract prior to execution of a GMP Amendment, the provisions of Section J.5 of the Reynolds School District General Conditions shall apply.

3.2.4 Prior to commencement of the Construction Phase, and in any event not later than mutual execution of the GMP Amendment, CM/GC shall provide to Owner a full performance bond and a payment security bond as required by Section G of the Reynolds School District General Conditions in the amount of the GMP. If an Early Work Amendment is executed, CM/GC shall provide such bond in the amount of the Early Work Price under the Early Work Amendment. CM/GC shall provide to Owner additional or replacement bonds at the time of execution of any subsequent Early Work Amendment or GMP Amendment, in each case prior to execution of the Amendment and the supplying of any labor or materials for the prosecution of the Work covered by the Amendment, and in each case in a sufficient amount so that the total bonded sum equals or exceeds the total Early Work Price or the GMP, as the case may be. In the event of a Scope Change that increases the GMP, CM/GC shall provide to Owner an additional or supplemental bond in the amount of such increase prior to performance of the additional Work.

3.3 Construction Management (CM) Services. Throughout the Preconstruction Phase and Construction Phase of the Project, the CM/GC shall provide CM Services, generally consisting of coordinating and managing the building process as an independent contractor, in cooperation with the Owner, Owner's Authorized Representative, Architect and other designated Project consultants (the "Construction Principals"). CM Services shall include, but are not limited to:

3.3.1 Providing all Preconstruction Phase Services described above;

3.3.2 Developing and delivering schedules, preparing construction estimates, performing constructability review, analyzing alternative designs, studying labor conditions, coordinating and communicating the activities of the Construction Principals throughout the Construction Phase to all Construction Principals;

3.3.3 Continuously monitoring the Project schedule and recommending adjustments to ensure completion of the Project in the most expeditious manner possible;

3.3.4 Working with the Owner, Owner's Authorized Representative, and the Architect to analyze the design, participate in decisions regarding construction materials, methods, systems, phasing, and costs, and suggest modifications to achieve the goals of providing the Owner with the highest quality Project within the budget, GMP and schedule;

3.3.5 Providing Value Engineering ("VE") services ongoing through the Project. CM/GC shall develop cost proposals, in the form of additions to or deductions from the GMP, including detailed documentation to support such adjustments and shall submit such proposals to Owner for its approval. CM/GC shall actively participate in a formal VE study anticipated to be held at the end of the Design Development phase. CM/GC acknowledges that VE services are intended to improve the value received by Owner with respect to cost reduction or life cycle of the Project;

3.3.6 Holding and conducting periodic meetings with the Owner and the Architect to coordinate, update and ensure progress of the Work;

3.3.7 Submitting monthly written report(s) to the Owner's Authorized Representative. Each report shall include, but shall not be limited to, Project updates including (i) actual costs and progress for the reporting period as compared to the estimate of costs;
(ii) explanations of significant variations; (iii) work completed; (iv) work in progress; (v) changes in the work; and (vi) other information as determined to be appropriate by the Owner. Oral or written updates shall be provided to the Owner as deemed appropriate by the CM/GC or as requested by the Owner;

3.3.8 Maintaining a daily log containing a record of weather, Subcontractors working on the site, number of workers, Work accomplished, problems encountered, safety violations and incidents of personal injury and property damage, and other similar relevant data as the Owner may reasonably require. The log shall be available to the Owner and Architect on request;

3.3.9 Developing and implementing a system of cost control for the Work acceptable to Owner's Authorized Representative, including regular monitoring of actual costs for activities in progress and estimates for uncompleted tasks and proposed changes. The CM/GC shall identify variances between actual and estimated costs and report the variances to the Owner and Architect at regular intervals;

3.3.10 Cooperating with any and all consultants hired by Owner;

3.3.11 At Owner's request, cooperating and performing warranty and inspection Work for the Project through the expiration date of the applicable warranty period;

3.3.12 Assisting Owner with start-up of the Project. Such start-up may occur in phases due to phased occupancy;

3.3.13 Incorporating commissioning and inspection agents' activities into the Project schedule and coordinating Subcontractors required to participate in the commissioning and inspection process;

3.3.14 Performing all other obligations and providing all other services set forth in the Contract Documents; and performing all other acts and supplying all other things necessary to fully and properly perform and complete the Work as required by the Contract.

ARTIC LE 4
RELATIONSHIP AND ROLES OF THE PARTIES

4.1 Independent Contractor. The CM/GC is an independent contractor and not an officer, employee, or agent of Owner as those terms are used in ORS 30.265.

4.2 Performance of Work. The CM/CG covenants with Owner to cooperate with the Architect and Owner's Authorized Representative and utilize the CM/GC's professional skill, efforts and judgment in furthering the interests of Owner; to furnish efficient business administration and supervision; to furnish at all times an adequate supply of workers and materials; and to perform the Work in conformance

with the terms and conditions of the Contract Documents and in an expeditious and economical manner consistent with the interests of Owner.

4.3 **Design Consultants.** Owner has a separate contract with the Architect related to the Project. Both the CM/GC and the Architect shall be given direction by Owner through Owner's Authorized Representative. The CM/GC agrees to support Owner's efforts to create a collaborative and cooperative relationship among the CM/GC, Architect, other Project consultants, and Owner's Authorized Representative.

4.4 **Forms and Procedures.** The Owner has developed or may develop procedures and forms for the administration and tracking of the Contract. The CM/GC agrees to abide by those procedures and use those forms.

4.5 **CM/GC's Project Staff.** The CM/GC's Project staff shall consist of the following personnel:

4.5.1 Project Manager and Assistant Project Manager/Project Engineer:_____ shall be the CM/GC's Project Manager and _____ shall be CM/GC's Assistant Project Manager/Project Engineer and one or both will supervise and coordinate all Construction Phase and Preconstruction Phase Services of CM/GC and participate in all meetings throughout the Project term unless otherwise directed by Owner. CM/GC represents that each of the Project Manager and Assistant Project Manager have authority to execute Change Orders and Contract Amendments on behalf of CM/GC.

4.5.2 Job Superintendent: If Construction Phase Services are requested and accepted by Owner, _____ shall be the CM/GC's on-site job superintendent throughout the Project term.

4.6 **Key Persons.** The CM/GC's personnel identified in Article 4.5, and any other personnel identified by name in CM/GC's Proposal, shall be considered Key Persons and shall not be replaced during the Project without the written permission of Owner, which shall not be unreasonably withheld. If the CM/GC intends to substitute personnel, a request must be given to Owner at least 30 Days (or such shorter period as permitted by Owner) prior to the intended time of substitution. When replacements have been approved by Owner, the CM/GC shall provide a transition period of at least 10 Business Days during which the original and replacement personnel shall be working on the Project concurrently. Once a replacement for any of these staff members is authorized, further replacement shall not occur without the written permission of Owner.

ARTIC LE 5

DATE OF COMMENCEMENT; SUBSTANTIAL AND FINAL COMPLETION

5.1 **Notice to Proceed.** If Construction Phase Services are added to the Contract as set

forth in Article 3.2, then a notice to proceed will be issued by Owner to begin the designated or full Construction Phase Services ("Notice to Proceed"). It is anticipated that the Notice to Proceed will be issued on or about February 9, 2017. A separate Notice to Proceed will be given for any and every Early Work Agreement.

5.2 Completion of Project. The CM/GC shall achieve Substantial Completion of the entire Work not later than: August 31, 2018 and shall achieve Final Completion not later than October 30, 2018. .

5.3 Time is of the Essence. All time limits stated in the Contract Documents are of the essence.

5.4 Time Extensions. Notwithstanding provisions for Contract time extensions in Section D.2 of the Reynolds School District General Conditions, Owner and CM/GC agree that timely completion of the Work is essential to the success of the Project, and that approval for time extension shall be granted only as a last resort. CM/GC agrees to make every effort to recover "lost" time.

5.5 Liquidated Damages. The CM/GC acknowledges that the Owner will sustain damages as a result of the CM/GC's failure to substantially complete the Project in accordance with the Contract Documents. These damages may include, but are not limited to delays in completion, use of the Project, and costs associated with Contract administration and use of temporary facilities. The CM/GC and the Owner acknowledge that the actual amount of damages would be difficult to determine accurately and agree that that the following liquidated damages figure represents a reasonable estimate of such damages and is not a penalty:

5.5.1 FOR SINGLE PHASE PROJECTS: Liquidated Damages shall be $ 5,000 for each day that Substantial Completion exceeds the required date of Substantial Completion.

5.5.2 The CM/GC agrees to pay to the Owner the liquidated damage sums set forth above for each day of delay or any fraction thereof and further agrees that Owner may deduct such sums from payments the Owner otherwise owes to CM/GC under the Contract. If such deduction does not result in payment to Owner of the assessed liquidated damages in full, CM/GC shall promptly pay any and all remaining sums due to the Owner upon demand.

ARTICLE 6
FEES, CONTRACT SUM AND GMP

6.1 Fees; Contract Sum; GMP. Owner shall pay CM/GC the Preconstruction Fee described in Article 6.2. In addition, for each Early Work Amendment executed by CM/GC and

Owner, Owner shall pay CM/GC, as payment for the Early Work, an amount equal to the sum of the CM/GC Fee attributable to the Early Work, and the actual cost of all Early Work completed and accepted by Owner, but not exceeding the Early Work Price.

If a GMP Amendment is executed, Owner shall pay CM/GC, as payment for the Work, the "Contract Sum" which shall equal the sum of the Preconstruction Fee, the CM/GC Fee, the actual cost of the Work including any Early Work, but not exceeding the GMP.

The GMP shall be determined in accordance with the formula set forth below and as described in Article 6.3. The "Cost of the Work" is defined in Article 8. Costs in excess of the GMP shall be paid by the CM/GC without reimbursement by Owner. Changes to the GMP shall only be authorized by Amendment or Change Order that includes any necessary Reynolds School District approvals.

Preconstruction Fee	**+**	**CM/GC Fee***	**+**	**Estimated Cost of the Work (Est COW) = GMP****
Cost Reimbursement		% of Est. COW		Includes CM/GC's Contingency and the
$ Maximum		Per RFP Response		Cost for GC Work

* CM/GC Fee is the composite of Fee/Performance & Payment Bond/Liability Insurance

** Formula assumes no Early Work is performed.

6.2 Preconstruction Fee. The Preconstruction Fee shall be payable to CM/GC on a cost reimbursement basis up to a maximum sum of $, which shall cover constructability review, value engineering, cost estimating, development of GMP, and all other Preconstruction Phase Services, as described in Article 3. If CM/GC's costs for provision of Preconstruction Phase Services exceed the maximum Preconstruction Fee, CM/GC shall pay such additional cost without reimbursement. CM/GC shall not be entitled to any CM/GC Fee upon the Preconstruction Fee. Owner shall pay the Preconstruction Fee on a cost-reimbursement basis with each application for payment during the Preconstruction Phase. If the total actual Preconstruction Fee is less than the maximum Preconstruction Fee used for initial calculation of the GMP as provided above, the GMP shall be reduced by the difference; provided that Owner may direct instead that any unapplied portion of the maximum Preconstruction Fee be applied to Construction Phase Services, in which case the GMP shall not be reduced by the portion so applied. Except to the extent the parties may expressly agree to the contrary in the GMP Amendment, no Preconstruction Fee or other fee, compensation or reimbursement shall be payable to CM/GC with respect to Preconstruction Services performed after execution of the GMP Amendment.

6.3 Establishment of CM/GC Fee; **Adjustments to CM/GC Fee.**

6.3.1 The "CM/GC Fee" shall be a percentage of the cost of the work to be identified in the GMP Amendment, and shall be calculated as_____ **%** of the Estimated Cost of the Work at the time of establishment of the GMP. In making such calculation, the Estimated Cost of the Work shall exclude the Preconstruction Fee, the CM/GC Fee itself, Performance and Payment Bond and Liability Insurance and any other cost or charge which this CM/GC Contract states is not to be included in calculating the CM/GC Fee, but shall include Allowances, selected alternates, Cost for General Contractor Work, and

reasonable CM/GC contingencies as designated in the GMP Supporting Documents. The CM/GC Fee is inclusive of profit, overhead, liability insurance, performance and payment bond and all other indirect or non-reimbursable costs. Owner shall

pay the CM/GC Fee ratably with each application for payment during the Construction Phase. In the case of Early Work, the CM/CG Fee shall be the above percentage multiplied by the actual Cost of the Early Work, until such time as a GMP Amendment is executed, at which time such CM/GC Fee payments shall be credited against the CM/GC Fee fixed therein.

6.3.2 Notwithstanding any provision of Section D.1.3 of the Reynolds School District General Conditions to the contrary, and unless the parties agree in writing to the contrary, any Amendment or Change Order that increases or decreases the GMP shall adjust the CM/GC Fee then in effect by the multiplying the percentage shown in Article
6.3.1 by the change in the Estimated Cost of the Work reflected in such approved Amendment or Change Order. In addition, if the Contract is terminated for any reason prior to full completion of the Work (including, without limitation, termination during or following performance of Early Work), the CM/GC Fee shall be limited to the total CM/GC Fee multiplied by the percentage of Work completed and accepted at the time of termination. The CM/GC Fee shall not be subject to adjustment for any other reason, including, without limitation, schedule extensions or adjustments, Project delays, unanticipated costs, or unforeseen conditions.

6.4 Determination of GMP.

6.4.1 CM/GC shall deliver to Owner a proposed GMP and GMP Supporting Documents at a time designated by Owner during the Preconstruction Phase. If any actual subcontract Offers are available at the time the GMP is being established, CM/GC shall use those subcontract Offers in establishing the GMP.

6.4.2 As the Plans and Specifications may not be developed to the stage of biddable design documents at the time the GMP proposal is prepared, the CM/GC shall provide in the GMP for further development of the Plans and Specifications by the Architect that is consistent with the Contract Documents and reasonably inferable therefrom. Such further development does not include such things as changes in scope, systems, kinds and quality of materials, finishes or equipment, all of which, if required, shall be incorporated by Change Order or Amendment with a corresponding GMP adjustment.

6.4.3 The CM/GC shall include with its GMP proposal a written statement of its basis (the "GMP Supporting Documents"), which shall include:

(a) A list of the Plans and Specifications, including all addenda thereto and the conditions of the Contract, which were used in preparation of the GMP proposal.

(b) A list of allowances and a statement of their basis.

(c) A list of the clarifications and assumptions made by the CM/GC in the preparation of the GMP proposal to supplement the information contained in the Plans and Specifications.

(d) The proposed GMP, including a statement of the estimated cost organized by trade categories, allowances, contingency, and other items and the associated

fees that comprise the GMP.

(e) The Date of Substantial Completion upon which the proposed GMP is based, and a schedule of the Construction Documents issuance dates upon which the date of Substantial Completion is based.

6.4.4 The CM/GC shall meet with the Owner and Architect to review the GMP proposal and the written statement of its basis. If the Owner or Architect discovers any inconsistencies or inaccuracies in the information presented, they shall promptly notify the CM/GC, who shall make appropriate adjustments to the GMP proposal, its basis or both.

6.4.5 Prior to the Owner's acceptance of the CM/GC's GMP proposal and issuance of a Notice to Proceed, the CM/GC shall not incur any cost to be reimbursed as part of the Cost of the Work, except as specifically provided in an Early Work Amendment.

6.4.6 The Owner shall authorize and cause the Architect to revise the Plans and Specifications to the extent necessary to reflect the agreed-upon assumptions and clarifications contained in the GMP Amendment. Such revised Plans and Specifications shall be furnished to the CM/GC in accordance with schedules agreed to by the Owner, Architect and CM/GC. The CM/GC shall promptly notify the Architect and Owner if such revised Plans and Specifications are inconsistent with the agreed-upon assumptions and clarifications.

6.4.7 The GMP shall include in the Estimated Cost of the Work only those taxes which are enacted at the time the GMP is established.

6.4.8 The Estimated Cost of the Work shall include the CM/GC's contingency, a sum established by the CM/GC for the CM/GC's exclusive use, with owner representative review and approval, to cover additional development of Plans and Specifications and unanticipated costs and unforeseen conditions which are properly reimbursable as Cost of the Work but which are not the basis for a Change Order.

6.4.9 The CM/GC shall work with the Architect and Owner to identify and confirm components and systems not specifically shown but required for a complete, fully functional Project. Owner will direct the Architect to complete the final Construction Documents in accordance with the Project scope agreed upon by all parties at the time the GMP is established.

6.4.10 Notwithstanding the level of detail represented in the GMP Supporting Documents, the CM/GC shall represent and warrant, at the time that it submits the GMP, that the GMP includes the entire cost of all components and systems required for a complete, fully functional facility.

6.4.11 In developing the GMP, the CM/GC shall include and identify such contingencies within the GMP as may be necessary to pay for unanticipated costs and unforeseen conditions that are required for a complete, fully functional facility.

6.5 **Failure to Furnish an Acceptable GMP.** If the CM/GC does not furnish a GMP acceptable to Owner within Owner's Target GMP Range, or if Owner determines at any time in its sole discretion that the parties may fail to reach a timely agreement on a GMP acceptable to Owner, Owner may terminate the Contract without liability, and the CM/GC shall not receive additional compensation beyond the Preconstruction Fee under the Contract and sums due under any Early Work Amendment. Termination under this provision shall proceed under Section J.5 of the Reynolds School District General Conditions as a termination for Owner's convenience. CM/GC further agrees that Owner shall not be liable for any damages whether actual, consequential or otherwise for termination of the Contract under this provision.

6.6 **Acceptance of GMP.** Upon acceptance of the GMP by Owner, the parties shall execute a GMP Amendment.

6.7 **Owner Savings.** If the sum of the Preconstruction Fee, plus the CM/GC Fee, plus the actual and final Cost of the Work (the Contract Sum as defined in Article 6.1), is less than the GMP, the savings shall accrue to the Owner.

6.8 **Allowance Work**.

6.8.1 CM/GC shall not perform any Allowance Work without prior execution by Owner of a Change Order approving the Specifications for the Allowance Work and the price thereof.

6.8.2 Owner shall be entitled to apply any Allowance line items that are not been fully expended to other line item Allowances that have been fully expended, without any resulting increase in the GMP.

6.8.3 If the total Cost of the Allowance Work exceeds the total Allowances within the GMP, CM/GC shall not perform any Allowance Work in excess of such amount until either (i) the parties agree that the additional Allowance work will be performed within the then- current GMP or (ii) a GMP Amendment is executed to increase the GMP by the excess cost of the Allowance work.

6.8.4 The Contract Sum shall not include any Allowance items not identified in the GMP Amendment or the GMP Supporting Documents until such allowance item is reduced to a fixed price by Change Order or Amendment.

6.8.5 If at the Final Completion of the Project, any portion of the Allowance funds remains unexpended, the GMP shall be reduced by a corresponding amount via a Change Order or Amendment.

6.9 **Reallocating Projected Cost Underruns after Bid (Offer) Buyout**. As soon as possible after the awarding of the Work to the primary Subcontractors, CM/GC shall review

projected costs and provide the Owner with a buy-out status report showing any projected cost underruns, reconciling accepted Offers and other reasonably anticipated costs, to the cost estimate used by CM/GC to establish the GMP.

CM/GC shall include with its report any underlying documentation requested by Owner used to develop or support such report. CM/GC shall also consider the reduced risk associated with known subcontracting costs, and the impact that reduced risk has on the amount of the CM/GC's Contingency. The parties shall negotiate in good faith to execute a Change Order transferring an appropriate portion of any projected cost underruns to an Owner- controlled contingency fund to be held within the GMP to pay for additional costs arising from (a) any Owner-directed or approved change to the Work, (b) schedule changes that would otherwise entitle CM/GC to an increase in the GMP, (c) Allowance items after exhaustion of all Allowances, (d) selection by Owner of more expensive alternates than those used for calculation of the GMP, (e) Owner selection of substitutions that increase the Cost of the Work, or (f) any other costs which otherwise would entitle CM/GC to an increase in the GMP. Any transfer of projected cost underruns from CM/GC's contingency to the Owner-controlled contingency fund will not affect CM/GC's obligation to furnish Owner with a complete, fully functional facility within the GMP without use of the funds transferred to the Owner-controlled contingency fund unless such funds are released by Owner for the purposes set forth in (a) through (f) of this Article 6.9. Any transfer of funds to the Owner-controlled contingency fund will not reduce the CM/GC Fee, nor will any subsequent release and use of funds from the Owner-controlled contingency fund for the purposes set forth in (a) through (f) of this Article 6.9 increase the CM/GC Fee.

ARTICLE 7
CHANGES IN THE WORK

7.1 **Price Adjustments**. Adjustments to the Estimated Cost of the Work required by changes in the Work shall be determined by any of the methods listed in Section D of the Reynolds School District General Conditions, except that, unless the adjustment is based upon fixed pricing or unit pricing:

7.1.1 The overhead and profit markup for the CM/GC shall be limited to the CM/GC Fee adjustment, if any, permitted under Article 6.3.2 of this CM/GC Contract;

7.1.2 The increase or decrease in the Estimated Cost of the Work, other than for subcontract work, shall be calculated pursuant to Articles 8 and 9 of this CM/GC Contract, instead of being based on CM/GC's Direct Costs as defined in the Reynolds School District General Conditions; and

7.1.3 In calculating adjustments to subcontracts, unless the parties agree otherwise, the change shall be limited to the Subcontractor's Direct Costs plus the supplemental mark-up provided in Section D of the Reynolds School District General Conditions, and shall not be modified by Articles 8 and 9 of this CM/GC Contract.

7.2 **Adjustments to GMP.** Adjustments to the GMP after execution of the GMP Amendment may be made only (i) in the event of Scope Changes or (ii) as otherwise expressly provided in this CM/GC Contract, and then only in accordance with the following procedure:

7.2.1 CM/GC shall review subsequent iterations of the Plans and Specifications as they are

prepared to determine whether, in the opinion of CM/GC, they result in a Scope Change so that it can be determined if an adjustment to the GMP is warranted.

7.2.2 Changes to the GMP shall be initiated by written notice by one party to the other ("GMP Change Request"). CM/GC shall deliver any such GMP Change Request to Architect and Owner's Authorized Representative promptly after becoming aware of any Scope Change if, in CM/GC's opinion, it constitutes grounds for adjustment of the GMP. Any GMP Change Request shall include a proposal as to the appropriate GMP adjustment with respect to the Scope Change at issue.

7.2.3 CM/GC shall submit its GMP Change Requests as soon as possible, and CM/GC shall not be entitled to claim a GMP increase unless CM/GC submitted a GMP Change Request to Owner's Authorized Representative and to Architect within the earlier of (a) 30 Days after CM/GC has received the information constituting the basis for the claim, or
(b) as to Work not yet bid or proposed, prior to submission of solicitations for such Work and as to Work already solicited, prior to commencement of the portion of the Work for which CM/GC intends to claim a Scope Change; and (c) in any event, prior to CM/GC's signing of a Change Order for the Scope Change.

7.2.4 Owner may, at any time, submit a GMP Change Request requesting a reduction of the GMP, which shall include Owner's basis for such request, which may include, for example, reduction of the CM/GC's Contingency after further development of the Plans and Specifications that form the basis for the original GMP Amendment, and/or unused Allowances.

7.2.5 CM/GC shall work with Architect to reconcile all differences in its GMP Change Request with Architect within seven Days from the date of submission of the GMP Change Request. "Reconciled" means that the CM/GC and Architect have verified that their assumptions about the various categories are the same, and that they have identified the reason for differences in the GMP Change Request and the Architect's position. CM/GC shall submit the Reconciled GMP Change Request to Owner, which submission shall be a condition to any CM/GC claim for a GMP increase.

7.2.6 If the Reconciled GMP Change Request is not acceptable to Owner, CM/GC agrees to work with the Owner and the Architect to provide a GMP Change Request that is acceptable to Owner.

7.2.7 CM/GC agrees to make all records, calculations, drawings and similar items relating to GMP Change Request available to Owner and to allow Architect and Owner access and opportunity to view such documents at CM/GC's offices. Upon Owner's reasonable notice, CM/GC shall deliver two copies of such documents to Owner's Representative and Architect at any regular meeting or at the Site.

7.2.8 GMP increases, if any, shall not exceed the increased Cost of the Work arising from the Scope Change (whether based on agreed fixed pricing, or the estimated Cost of the Work increase based on cost-reimbursable pricing), reconciled in accordance with the above provisions, as arising from the incident justifying the GMP increase, plus or minus the CM/GC Fee applicable to such change in the Cost of the Work.

7.2.9 Except as provided in this Article 7.2, adjustments to the GMP shall be reconciled in accordance with Section D of the Reynolds School District General Conditions.

7.3 **Execution by Owner**. If Architect is not the Owner's Authorized Representative, then notwithstanding any provision in the Contract to the contrary, Architect has no authority to execute Change Orders or Amendments on behalf of Owner, and only duly authorized personnel of Owner may do so.

ARTICLE 8
COST OF THE WORK (To Be Reimbursed)

8.1 **Cost of the Work.** The term "Cost of the Work" shall mean the following costs. The Cost of the Work shall include only those items necessarily and reasonably incurred by CM/GC in the proper performance of the Work and specifically identified in this Article 8, and only to the extent that they are directly related to the Project.

8.2 **Labor Costs.**

8.2.1 Wages of construction workers directly employed by the CM/GC to perform the construction of the Work at the site.

8.3 **Subcontract Costs**.

8.3.1 CM/GC's actual payment to Subcontractors pursuant to CM/GC's contract with such Subcontractor for the Work on the Project. No amount paid by or payable to any such Subcontractor other than the fixed or cost reimbursement price of its subcontract shall be included in the Cost of the Work, unless otherwise approved in writing by Owner.

8.4 **Costs of Materials and Equipment Incorporated in the Work or Stored On Site**.

8.4.1 Costs, including transportation, of materials and equipment incorporated or to be incorporated in the completed Work.

8.4.2 Costs of materials in excess of those actually installed, but required to provide reasonable allowance for waste and for spoilage. Unused excess materials, if any, shall be delivered to Owner at the completion of the Work or, at Owner's option, shall be sold by the CM/GC. Any sale shall be commercially reasonable and CM/GC shall provide accounting for such a sale within 15 Days of the transaction. Net amounts realized, if any, from such sales shall be credited to Owner as a deduction from the Cost of the Work.

8.5 **Costs of Miscellaneous Equipment and Other Items; Equipment Rental Charges.**

8.5.1 Costs, including transportation, installation, maintenance, dismantling and removal, of

materials, supplies, temporary facilities, machinery, equipment, and hand tools not customarily owned by the construction workers, which are provided by the CM/GC at the site and fully consumed in the performance of the Work; and cost less salvage value on such items if not fully consumed, whether sold to others or retained by the CM/GC; provided that Owner at Owner's option may require that CM/GC deliver to Owner (at no charge) at the end of the Project any of such items procured for this Project. Cost for items previously used by the CM/GC shall mean fair market value. CM/GC shall charge no additional administrative or other mark-up for purchased items. The CM/GC shall document all small tools purchased for the Project via invoices in monthly billing, and shall document the disposition of small tools which have an individual price that exceeds
$100. A copy of such disposition log shall accompany the payment application whenever these items are included in the application. In no case shall a tools cumulative billing to the project exceed 50% of fair market purchase price of the same new tool.

8.5.2 Rental charges for temporary facilities, machinery, equipment and hand tools not customarily owned by the construction workers, which are provided by the CM/GC at the site, whether rented from the CM/GC or others, and costs of transportation, installation, minor repairs and replacements, dismantling and removal thereof. Rates and quantities of equipment rented shall be according to industry standards, shall not exceed 100% of the rental rates published from time to time in the Rental Rate Blue Book for Construction Equipment, prepared by Machinery Information Division of Primedia Information Incorporated in effect at the time of rental, shall not exceed acquisition costs, and for individual items exceeding $ 100, will be subject to Owner's prior approval. CM/GC shall deliver to Owner a list of published rates from time to time at Owner's request. For all items rented or leased, the CM/GC shall charge Owner only the rental charge incurred by CM/GC with no additional administrative or other mark-up. CM/GC shall make efforts and use its best skills and judgment to procure equipment in the most expeditious and economical manner consistent with the interest of the Owner. Efforts shall include, but not be limited to, providing Owner with a rent/buy analysis so that Owner may elect for CM/GC to procure the item in lieu of rental if the facility at issue is expected to be rented for six months or longer. Such rent/buy analysis shall include, where available, a leasing rate commensurate with the expected term of rental of the facility at issue.

8.5.3 Costs of removal of debris from the site.

8.6 Other Costs.

8.6.1 Deductible for builder's all/risk insurance as required by Section G of the Reynolds School District General Conditions.

8.6.2 Sales, use or similar excise taxes imposed by a governmental authority which are directly related to the Work and for which the CM/GC is liable.

8.6.3 Fees and assessments for the building permit and for other permits, licenses and inspections for which the CM/GC is required by the Contract Documents to pay.

8.6.4 CM/GC deposits lost for causes other than the CM/GC's fault or negligence.

8.6.5 Other costs incurred in the performance of the Work if and to the extent approved in advance in writing by Owner.

8.7 Costs to Prevent Damage or Injury in Emergencies. The Cost of the Work shall also include costs which are incurred by the CM/GC in taking action to prevent threatened damage, injury or loss in case of an emergency affecting the safety of persons and property.

8.8 Cost For General Conditions Work. CM/GC shall be paid a sum of $_____ for all services as stated in Exhibit C as payment for the GC Work, including all labor, materials, and direct and indirect costs thereof. To the extent any General Conditions Work is listed in Exhibit C and also otherwise described above in this Article 8, CM/GC's compensation for the same is included in the Cost for GC Work and shall not otherwise be charged as Cost of the Work. The Cost of the GC shall not be increase unless there is an approved extension of time to the approved GMP schedule, which warrants only those items in Exhibit C that would increase due to the time extension. The Cost for General Conditions Work, less 5% retainage thereon, shall be paid based on actual cost of work on a reimbursable basis, commencing with the first progress billing after commencement of the scheduled Construction Phase.

ARTICLE 9
COSTS EXCLUDED FROM COST OF WORK
(Not To Be Reimbursed)

9.1 Costs Excluded from Cost of Work. The following shall not be included in the Cost of the Work:

9.1.1 Salaries and other compensation of the CM/GC's personnel stationed at the CM/GC's principal office or offices other than the site office except as allowed under Articles 8.2.2 and 8.2.3.

9.1.2 Expenses of the CM/GC's principal office and offices other than the site office.

9.1.3 Any overhead and general expenses, except as may be expressly included in Article 8.

9.1.4 CM/GC's capital expenses, including interest on the CM/GC's capital employed for the Work.

9.1.5 Rental cost of machinery and equipment, except as provided in Article 8.5.2

9.1.6 Any cost associated with the Project not specifically and expressly described in Article 8.

9.1.7 Costs due to the fault or negligence of the CM/GC, Subcontractors, suppliers, anyone directly or indirectly employed by any of them, or for whose acts any of them may be liable.

9.1.8 The cost of correction of any repair work, nonconforming or defective work, or warranty work.

9.1.9 Merit, safety, or other incentive payments, bonuses or awards, or any expenses in connection therewith, except as provided in Article 8.

9.1.10 Fines and penalties.

9.1.11 Except for Early Work, the cost of Preconstruction Phase Services.

9.1.12 The Cost of the Work for GC Work in excess of the Proposed Cost for General Conditions Work.

9.1.13 Any costs in excess of the GMP.

9.1.14 Premiums for Subcontractor bonds unless authorized by Owner.

9.1.15 Architect's cost to the CM/GC, subcontractors, suppliers, or anyone for requiring more than (2) two reviews of each Shop Drawing, Product Data item, sample and similar submittals to the Architect.

9.1.16 Architect's cost to the CM/GC, subcontractors, suppliers, or anyone for requiring more than (1) one inspection by the Architect for any portion of the Work to determine whether such portion of the Work is substantially complete, or (1) one inspection by the Architect to determine final completion in accordance with the Contract Documents.

ARTICLE 10
DISCOUNTS, REBATES AND REFUNDS

10.1 Discounts, Rebates and Refunds. Cash discounts obtained on payments made by the CM/GC shall accrue to Owner. Trade discounts, rebates, refunds and net amounts received from sales of surplus materials and equipment shall accrue to Owner, and the CM/GC shall make provisions so that they can be secured.

10.2 Amounts Credited to Owner. Amounts which accrue to Owner in accordance with the provisions of Article 10.1 shall be credited to Owner as a deduction from the Cost of the Work.

ARTICLE 11
SUBCONTRACTS AND OTHER CONTRACTS

11.1 General Subcontracting Requirements.

11.1.1 Other than Work performed pursuant to Articles 11.4 or 11.5 of this CM/GC Contract, CM/GC shall subcontract the Work to Subcontractors other than the CM/GC and its Affiliates.

11.1.2 The CM/GC shall comply with Oregon Administrative Rules ("OAR") 125-246-0200, 125-246-0210, and 125-246-0220 in all respects for the solicitation of Minority, Women and Emerging Small Business Enterprises. Compliance shall

include pass-through requirements for Subcontractor demonstrations of good faith efforts for all subcontract Offer packages, for which set goals shall not be utilized.

11.1.3 The CM/GC shall report to Owner on the results of the good faith efforts of compliance required in Article 11.1.2 following award of all subcontracts. The CM/GC shall also submit quarterly reports to Owner listing Work contracted to date with Minority, Women

and Emerging Small Business Enterprises.

11.2 CM/GC's Obligations under Subcontracts.

11.2.1 No use of a Subcontractor or supplier shall relieve the CM/GC of any of its obligations or liabilities under the Contract. Except as may expressly otherwise be provided in the Contract, the CM/GC shall be fully responsible and liable for the acts or omissions of all Subcontractors and suppliers including persons directly or indirectly employed by them. The CM/GC shall have sole responsibility for managing and coordinating the operations of its Subcontractors and suppliers, including the settlement of disputes with or between the CM/GC and any such Subcontractor or supplier.

11.2.2 The CM/GC shall include in each subcontract and require each Subcontractor to include in any lower tier subcontract, all provisions necessary to make all of the provisions of the Contract Documents, including the Reynolds School District General Conditions, fully effective as applied to Subcontractors. CM/GC shall indemnify Owner for any additional cost based on a subcontractor claim which results from the failure of CM/GC to incorporate the provisions of this CM/GC Contract in each subcontract. The CM/GC shall provide all necessary Plans, Specifications, and instructions to its suppliers and Subcontractors to enable them to properly perform their work.

11.2.3 Retainage from Subcontractors. Except with the Owner's prior approval, payments to Subcontractors shall be subject to retainage of no more than 5%. The Owner and the CM/GC shall agree upon a mutually acceptable procedure for review and approval of payments and retainage for Subcontractors.

11.3 Subcontractor Selection.

11.3.1 Unless otherwise provided under this Article 11, the selection of all Subcontractors and suppliers shall be made by competitive Offers in a manner that will not encourage favoritism or substantially diminish competition. While not subject to the competitive procurement requirements of ORS Chapter 279C, the process shall conform to the following procedures, in general compliance with the open and competitive nature of public procurement, taking into account industry subcontracting practices.

11.3.2 CM/GC shall submit to Owner’s Authorized Representative its proposed procurement documents for review and comment before they are issued for solicitation. CM/GC

shall consider and respond to all Owner comments regarding any proposed Offer packages. As Offers are received, CM/GC shall submit to the Owner an Offer comparison in a mutually agreeable form together with any specific back-up documentation requested by Owner. The competitive process used to award subcontracts by the CM/GC may be monitored by the Owner's Authorized Representative; provided that such monitoring shall not excuse CM/GC from compliance with the subcontracting requirements of this CM/GC Contract. CM/GC shall cooperate in all respects with Owner's monitoring. The Owner's Authorized Representative shall be advised in advance of and be given the opportunity to be present at Offer openings, and CM/GC shall provide him or her with a summary or abstract of all Offers in form acceptable to the Owner's Authorized Representative, and

copies of particular Offers if requested, prior to CM/GC's selection of Offerors. Prior to opening Offers, the CM/GC agrees to disclose in writing to Owner any financial interest it has in any such Subcontractor, supplier or other contracting party whenever such Subcontractor, supplier or contracting party intends to compete on any Project work, directly or indirectly, including whether such party is an Affiliate of CM/GC.

11.3.3 The following minimum requirements apply to the Subcontract solicitation process:

(a) Solicitations will be advertised at least 10 Days prior to opening in the Daily Journal of Commerce and at least one other newspaper specifically targeted to reach the Minority, Women and Emerging Small Business audience. CM/GC also agrees to advertise in a local community newspaper in the area in which the Project is located, in order to allow for local participation in the solicitation process.

(b) Unless specific other prior arrangement has been made with Owner, all Offers will be written, and submitted to a specific location at a specific time. CM/GC shall time-stamp all Offers as received. Subcontractors must be qualified to perform the Work for this Project by being appropriately registered with the State of Oregon Construction Contractors Board.

(c) If fewer than three (3) Offers are submitted in response to any solicitation (inclusive of any Offer submitted by CM/GC), prior written approval by Owner shall be required to accept an Offer.

(d) CM/GC may develop and implement a prequalification process for particular solicitations, followed by selection of successful Offers among those Offerors that CM/GC determines meet the prequalification standards, with Owner's prior written approval of such prequalification process.

(e) CM/GC shall comply, and require Subcontractor compliance with, State of Oregon Bureau of Labor & Industries prevailing wage rates as specified in the RFP.

(f) Owner may at its sole discretion, require CM/GC to re-solicit for Offers based on the same or modified documents.

(g) CM/GC shall review all Offers and shall work with Offerors to clarify Offers, reduce exclusions, verify scope and quantities, and seek to minimize work subsequently awarded via the Change Order process.

(h) The CM/GC will document any and all discussions, questions and answers, modifications and responses to from any Offeror and ensure that the same are distributed to all Offerors, and Owner shall be entitled to inspect such documentation on request.

(i) CM/GC shall determine the lowest Offer for each solicitation that meets CM/GC's reasonable performance standards for the components of the Work at

issue; provided that if CM/GC determines it is unable to execute a suitable subcontract with such Offeror, CM/GC may, with Owner's prior approval, execute a subcontract with the second-lowest Offeror pursuant to Article 11.3.4 below.

11.3.4 Under special circumstances and only with prior written authorization by Owner, Work may be subcontracted on other than a low price basis, including without limitation, through competitive negotiation. As a condition to its authorization, Owner may require CM/GC's agreement to establish and implement qualification and performance criteria for Offerors, including a scoring system within requests for proposals. Examples include: where there are single fabricators of materials; special packaging requirements for Subcontractor work; design-build work or, where an alternative contracting method can be demonstrated to clearly benefit Owner.

11.3.5 CM/GC shall notify Owner in writing in advance before award of any proposed Subcontract, which notice shall include summaries in a form acceptable to Owner of all Offers received for the Subcontract at issue. Owner reserves the right to disapprove any proposed Subcontractors, suppliers and Subcontract or supply contract awards, based on legal standards of responsibility. Owner shall not unreasonably disapprove any proposed Subcontractor or supplier and increased costs due to Owner's disapproval shall be cause for an increase in the GMP.

11.3.6 CM/GC's subcontracting records shall not be considered public records; provided, however, that Owner and other agencies of the State shall retain the right to audit and monitor the subcontracting process in order to protect the Owner's interests.

11.4 CM/GC Field Work.

11.4.1 The CM/GC or its Affiliate may provide CM/GC Field Work required to complete the Project with its own forces, without the necessity of subcontracting such work.

11.4.2 Except as provided in Article 11.4.1, any other portion of the Work proposed to be performed by CM/GC or any Affiliate, including without limitation provision of any materials, equipment, or supplies, shall be subject to the provisions of Article 11.5.

11.5 Subcontracting by CM/GC.

11.5.1 Except to the extent otherwise approved in advance in writing by Owner's Authorized Representative, the CM/GC or its Affiliates may submit an Offer in accordance with Article 11.3 to do Work with its own forces, provided at least 50% of the labor by such work unit is performed by employees of the CM/GC or such Affiliate.

11.5.2 For those items for which the CM/GC or any of its subsidiaries intends to submit an Offer, such intent must be publicly announced with the solicitation for Offers required by Article 11.3.1, and Owner notified in writing. All Offers for this work shall be delivered to Owner and publicly opened by Owner at an announced time, date, and place.

11.6 Protests. CM/GC, acting as an independent contractor, shall include in the competitive process to award all subcontracts, a protest process for Subcontractors and suppliers that are competing Offerors, which process shall be subject to approval by Owner. CM/GC shall be solely responsible for resolving the procurement protests of Subcontractors and suppliers. CM/GC shall indemnify, defend, protect and hold harmless Owner from and against any such procurement protests and resulting claims or litigation. CM/GC shall act as an independent contractor, and not an agent of Owner, in connection with any procurement protest. The provisions of this Article 11 are solely for the benefit of Owner, and do not grant any rights or remedies (including third party beneficiary rights) to any Offeror or other protester, in connection with any procurement protest or claim.

ARTICLE 12
ACCOUNTING RECORDS

12.1 Accounting; Audit Access. The CM/GC shall keep full and detailed accounts and exercise such controls as may be necessary for proper financial management under the Contract; the accounting and control systems shall be satisfactory to Owner. Owner and Owner's representatives, and auditors, shall be afforded reasonable and regular access to the CM/GC's records, books, correspondence, instructions, drawings, receipts, subcontracts, purchase orders, vouchers, memoranda and other data relating to the Contract, and the CM/GC shall preserve these for a period of three years after final payment, or for such longer period as may be required by law.

12.2 Periodic and Final Audits. Owner may, at its discretion, perform periodic audits of the Cost of the Work and any other reimbursable costs associated with the Project. Owner intends to conduct a final audit of reimbursable costs prior to the Contract closeout. The CM/GC shall cooperate fully with Owner in the performance of such audits. Disputes over audit findings or conclusions shall be subject to the process set forth in Article 14.4.

ARTICLE 13

PROGRESS PAYMENTS

13.1 Integration with Reynolds School District General Conditions. The requirements of this Article 13 and Article 14 are in addition to, and not in lieu of, the requirements of Section E of the Reynolds School District General Conditions. In the event of conflict between the provisions of Articles 13 and 14 and Section E, the provision more favorable to Owner shall control. Without limitation, the provisions of Articles 13.3 and 13.4 shall control over the corresponding provisions of Section E.2.5 of the Reynolds School District General Conditions.

13.2 Progress Payments. Based upon applications for payment submitted pursuant to Section E of the Reynolds School District General Conditions, Owner shall make progress payments on account of the Preconstruction Fee, Cost of the Work, and associated CM/GC Fee, less 5% retainage, to the CM/GC as provided below and elsewhere in the Contract Documents.
A progress payment shall not be considered acceptance or approval of any Work or waiver of any defects therein.

13.3 Percentage of Completion. Applications for payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the application for payment. The percentage of completion shall be the lesser of (i) the percentage of that portion of the Work which has actually been completed; or (ii) the percentage obtained by dividing (a) the expense that has actually been incurred by the CM/GC on account of that portion of the Work for which the CM/GC has made or intends to make actual payment prior to the next application for payment by (b) the share of the GMP allocated to that portion of the Work in the Schedule of Values.

13.4 Calculation of Payment. Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

(a) Take that portion of the GMP properly allocable to completed Work as determined by multiplying the percentage of completion of each portion of the Work under the Schedule of Values by the share of the GMP allocated to that portion of the Work in the Schedule of Values. Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included;

(b) Add that portion of the GMP properly allocable to materials and equipment delivered and suitably stored and otherwise in compliance with Section E.2.3 of the Reynolds School District General Conditions;

(c) Add the CM/GC's Fee. The portion of the CM/GC's Fee payable shall be an amount that bears the same ratio to CM/GC Fee as sum of the amounts in the two preceding Clauses bears to the estimated probable Cost of the Work described in Article 6.1.2, but in no event causing total CM/GC Fee payments to exceed the total CM/GC Fee;

(d) Subtract the aggregate of previous payments made by and retained by the Owner;

(e) Subtract the shortfall, if any, indicated by the documentation required to substantiate prior applications for payment, or resulting from errors subsequently discovered by the Owner in such documentation;

(f) Subtract any amounts for which the Owner's Authorized Representative has withheld or denied payment as provided in the Contract Documents; and

(g) Subtract 5% retainage on the entire progress payment.

ARTICLE 14
FINAL
PAYMENT

14.1 Final Payment Accounting. CM/GC shall submit to Owner a final detailed accounting of the Cost of the Work together with CM/GC's final application for payment.

14.2 Calculation of Final Payment. The amount of the final payment shall be calculated as follows:

14.2.1 Take the sum of the CM/GC Fee, plus the Preconstruction Fee, plus the actual Cost of the Work substantiated by the CM/GC's final accounting. Said sum shall not exceed the GMP.

14.2.2 Subtract amounts, if any, for which the Owner's Authorized Representative withholds, in whole or in part, approval of payment.

14.2.3 Subtract the aggregate of previous payments made by Owner to CM/GC. If the aggregate of previous payments made by Owner exceeds the amount due the CM/GC, the CM/GC shall reimburse the difference to Owner within 30 Days with interest at the rate applicable to Owner payments under the Reynolds School District General Conditions.

14.3 Final Payment Review. Owner or its accountants will review and report in writing on the CM/GC's final accounting within 30 Days after delivery of the final accounting by the CM/GC. Based upon such Cost of the Work as Owner or Owner's accountants report to be substantiated by the CM/GC's final accounting, and provided the other conditions of the Contract have been met, the Owner's Authorized Representative will, within 10 Days after receipt of the written report of Owner's accountants, either issue to Owner an approval of CM/GC's final application for payment with a copy to the CM/GC or notify the CM/GC and Owner in writing of the Owner's Authorized Representative's reasons for withholding approval of any part of the application for payment, which disapproval shall include Owner's Authorized Representative's estimate of the amount that is due the CM/GC under the application for payment.

14.4 Payment Disputes. If Owner's accountants report the Cost of the Work as substantiated by the CM/GC's final accounting to be less than claimed by the CM/GC or if Owner's Authorized Representative declines to approve any duly submitted payment request by CM/GC, the CM/GC shall be entitled to demand a review by the Owner's highest contracting authority of the disputed amount. Such demand shall be made by the CM/GC within 30 Days after the CM/GC's receipt of a copy of the rejection of the application for payment; failure to demand additional review within this 30-Day period shall result in the substantiated amount reported by Owner's accountants becoming binding on the CM/GC. In addition, If Owner or any other state agency performs a subsequent audit of the Cost of the Work and determines any item therein to have been unsubstantiated or that CM/GC was otherwise overpaid, CM/GC shall have 30 Days after delivery of request for reimbursement by Owner to demand additional review by Owner's highest contracting authority; failure to make such demand within this 30 Day period shall result in the requested reimbursement becoming unconditionally due and payable by CM/GC. If CM/GC timely submits a protest to the Agency's highest contracting authority, CM/GC's Claim shall be subject to the claims review process in Section D.3 of the Reynolds School District General Conditions. Pending a final resolution, Owner shall pay the CM/GC the amount of the application for payment approved by the Owner's Authorized Representative.

14.5 Effect of Payment. Neither approval of an application for payment, a progress payment, release of retainage, final payment, or partial or entire use or occupancy of the Project by the Owner shall constitute acceptance of work not conforming to the Contract Documents, or waiver of the right to assert overpayment.

ARTICLE 15
TERMINATION OR SUSPENSION

15.1 Owner's Right to Terminate Prior to Execution of GMP Amendment. Prior to execution by both parties of the GMP Amendment, the Owner may terminate the Contract at any time without cause. Upon such termination, the amount to be paid to the CM/GC shall not exceed the Preconstruction Fee payable to the date of termination, together with amounts payable for Early Work if an Early Work Amendment has been executed. If Owner terminates for convenience during the Preconstruction Phase, Owner shall be entitled to copies of, and shall have the right to use, all work product of CM/GC and its Subcontractors performed to the date of termination, and CM/GC shall deliver copies of the same to Owner on request.

15.2 Owner's Termination for Convenience after GMP Amendment. After the GMP Amendment is executed by both parties, the Contract may be terminated by Owner without penalty for convenience pursuant to Section J.5 of the Reynolds School District General Conditions in which case CM/GC shall be entitled to payment of the amount stated in Article 15.1, together with the actual Cost of the Work completed, plus the CM/GC's Fee prorated based on the actual Cost of the Work completed prior to the date of termination, but in any event not in excess of the GMP.

15.3 Owner's Termination for Cause. In the event of termination of this Agreement by Owner for cause pursuant to Section J.4 of the Reynolds School District General Conditions, the amount, if any, to be paid to the CM/GC after application of the Reynolds School District General Conditions and Owner's

rights at law shall not exceed the amount the CM/GC would be entitled to receive under Article 15.2.

15.4 CM/GC Termination for Cause. CM/GC acknowledges that disputes regarding payments and Change Orders may occur as part of the CM/GC process, and that Owner's declining to pay disputed amounts shall not be grounds for suspension of the Work or termination for cause by CM/GC. If CM/GC terminates the Contract for Owner's material breach, the amount to be paid to CM/GC shall not exceed the amount CM/GC would have been entitled to receive under Article 13 above through termination and demobilization from the Project, with the CM/GC Fee prorated based on the actual Cost of the Work through the date of termination.

15.5 Assignment of Subcontracts. Each subcontract and supply contract for any portion of the Work is hereby irrevocably assigned by the CM/GC to the Owner, provided that such assignment is effective only after termination of the Contract by the Owner, and only for those subcontracts and supply contracts which the Owner accepts by notifying the Subcontractor/supplier and CM/GC in writing. For those subcontracts and supply contracts accepted by Owner, if the Work has been suspended for more than 30 Days, the Subcontractor's/supplier's compensation shall be equitably adjusted for increases in cost resulting from the suspension. CM/GC shall include a provision in each subcontract and supply agreement whereby the Subcontractor/supplier acknowledges Owner's rights under this Article 15.5. With respect to any subcontracts/supply contracts that are not accepted by Owner, the provisions of Section J.6.1 of the Reynolds School District General Conditions shall apply.

ARTICLE 16
REPRESENTATIONS, WARRANTIES AND CERTIFICATIONS

16.1 Representations and Warranties. CM/GC represents and warrants to Owner as of the effective date of the Contract:

16.1.1 it is qualified to do business as a licensed general contractor under the laws of the State of Oregon, and has all requisite corporate power and corporate authority to carry on its business as now being conducted;

16.1.2 it has full corporate power and corporate authority to enter into and perform the Contract and to consummate the transactions contemplated hereby; CM/GC has duly and validly executed and delivered this CM/GC Contract to Owner and that the Contract constitutes the legal, valid and binding obligation of CM/GC, enforceable against CM/GC in accordance with its terms, except as enforceability may be limited or affected by applicable bankruptcy, insolvency, reorganization, moratorium or other similar laws affecting creditors' rights generally and by general principles of equity (regardless of whether enforceability is considered in a proceeding in equity or at law);

16.1.3 CM/GC's execution and delivery of this CM/GC Contract and the consummation of the transactions contemplated hereby will not conflict with or result in a material breach of any terms or provisions of, or constitute a material default under, (i) CM/GC's Articles of Incorporation or Bylaws; (ii) any note, bond, mortgage, indenture, license, lease, contract, commitment, agreement or other instrument or obligation to which CM/GC is a party or by which CM/GC may be bound; or (iii) any

statute, order, writ, injunction, decree, rule or regulation applicable to CM/GC;

16.1.4 no material consent, approval, authorization, declaration or other order of, or registration or filing with, any court or regulatory authority or any third person is required for the valid execution, delivery and performance of the Contract by CM/GC or its consummation of the transactions contemplated hereby;

16.1.5 there is no action, proceeding, suit, investigation or inquiry pending that questions the validity of the Contract or that would prevent or hinder the consummation of the transactions contemplated hereby; and

16.1.6 the CM/GC's Project Manager and Assistant Project Manager identified in Article 4 are duly appointed representatives and each has the authority to bind the CM/GC to any and all duties, obligations and liabilities under the Contract Documents and any Amendments thereto.

16.2 Tax Compliance Certification. The individual signing on behalf of CM/GC hereby certifies and swears under penalty of perjury that s/he is authorized to act on behalf of CM/GC, she/he has authority and knowledge regarding CM/GC's payment of taxes, and to the best of her/his knowledge, CM/GC is not in violation of any Oregon tax laws. For purposes of this certification, "Oregon tax laws" are those tax laws listed in ORS 305.380(4), namely ORS Chapters 118, 314, 316, 317, 318, 320, 321 and 323 and Sections 10 to 20, Chapter 533, Oregon Laws 1981, as amended by Chapter 16, Oregon Laws 1982 (first special session); the elderly rental assistance program under ORS 310.630 to 310.706; and any local taxes administered by the Oregon Department of Revenue under ORS 305.620.

ARTICLE 17
MISCELLANEOUS

17.1 Headings. The headings used in this CM/GC Contract are solely for convenience of reference, are not part of the Contract and are not to be considered in construing or interpreting the Contract.

17.2 Merger. The Contract Documents constitute the entire contract between the parties. No waiver, consent, modification or change of terms of the Contract shall bind either party unless in writing and signed by both parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding the Contract. CM/GC, by signature of its representative, hereby acknowledges that it has read the Contract, understands it and agrees to be bound by its terms and conditions.

17.3 Exemption from Competitive Bidding. The parties acknowledge that the Contract has been awarded under an exemption from competitive bidding requirements pursuant to ORS 279C.335, as authorized by the Reynolds School District School Board.

17.4 Checklist. In addition to the sample draft contract and conditions, it is further understood that any contract between the parties must meet the checklist requirements of OAR 137-049-200(1)(c) and all those items are hereby incorporated herein. This means that the eventual contract for the project must meet the following statutory requirements:

(A) Prompt payment to all Persons supplying labor or material; contributions to Industrial Accident Fund; liens and withholding taxes (ORS 279C.505(1));

(B) Demonstrate that an employee drug testing program is in place (ORS 279C.505(2));

(C) If the Contract calls for demolition Work described in ORS 279C.510(1), a condition requiring the Contractor to salvage or recycle construction and demolition debris, if feasible and cost-effective;

(D) If the Contract calls for lawn or landscape maintenance, a condition requiring the Contractor to compost or mulch yard waste material at an approved site, if feasible and cost effective (ORS 279C.510(2);

(E) Payment of claims by public officers (ORS 279C.515(1));

(F) Contractor and first-tier subcontractor liability for late payment on Public Improvement Contracts pursuant to ORS 279C.515(2), including the rate of interest;

(G) Person's right to file a complaint with the Construction Contractors Board for all Contracts related to a Public Improvement Contract (ORS 279C.515(3));

(H) Hours of labor in compliance with ORS 279C.520;

(I) Environmental and natural resources regulations (ORS 279C.525);

(J) Payment for medical care and attention to employees (ORS 279C.530(1));

(K) A Contract provision substantially as follows: "All employers, including Contractor, that employ subject workers who work under this Contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its subcontractors complies with these requirements." (ORS 279C.530(2));

(L) Maximum hours, holidays and overtime (ORS 279C.540);

(M) Time limitation on claims for overtime (ORS 279C.545);

(N) Prevailing wage rates (ORS 279C.800 to 279C.870);

(O) BOLI Public Works bond (ORS 279C.830(2));

(P) Retainage (ORS 279C.550 to 279C.570);

(Q) Prompt payment policy, progress payments, rate of interest (ORS279C.570);

(R) Contractor's relations with subcontractors (ORS 279C.580);

(S) Notice of claim (ORS 279C.605);

(T) Contractor's certification of compliance with the Oregon tax laws in accordance with ORS 305.385; and

(U) Contractor's certification that all subcontractors performing Work described in ORS 701.005(2) (i.e., construction Work) will be registered with the Construction Contractors Board or licensed by the State Landscape Contractors Board in accordance with ORS 701.035 to 701.055 before the subcontractors commence Work under the Contract.

(V) Pursuant to ORS 279C.830(2), a provision stating that the Contractor and every subcontractor must have a Public Works bond filed with the Construction Contractors Board before starting Work on the project, unless otherwise exempt. This bond is in addition to performance bond and payment bond requirements. See BOLI rule at OAR 839-025-0015.

THIS CM/GC CONTRACT is executed in four original copies of which one is to be delivered to the CM/GC, and the remainder to Owner.

CM/GC:

Name of Firm:

Address:

CM/GC's Federal Tax I.D. #:

Construction Contractor's Board Registration

No.:

_____
Signature of Authorized Representative of CM/GC
Title
Date

OWNER:

REYNOLDS SCHOOL DISTRICT SCHOOL
BOARD

_____
Signature of Reynolds School District School Board Representative
Title
Date

Appendix B **EXHIBIT A**



REYNOLDS SCHOOL DISTRICT

GENERAL CONDITIONS

FOR PUBLIC IMPROVEMENT CONTRACTS

Adopted by Reynolds School District from the
State of Oregon for use on the Three New Elementary Schools

NOTICE TO STATE AGENCIES AND PUBLIC IMPROVEMENT CONTRACTORS

January 1, 2012 Edition – Modified by RSD July 19, 2016

Changes to the General Conditions (including any additions, deletions or substitutions) should only be made by Supplemental General Conditions, unless the General Conditions are specifically modified in the Public Improvement Agreement (which has a higher order of precedence under Section A.3 of the General Conditions). The text of these General Conditions should not otherwise be altered.

NOTE: THE FOLLOWING GENERAL CONDITIONS HAVE BEEN REVIEWED AS TO FORM BY THE OREGON DEPARTMENT OF JUSTICE. THE LEGAL SUFFICIENCY AND APPROVAL REQUIREMENTS OF ORS 291.047 ARE STILL APPLICABLE FOR INDIVIDUAL PROCUREMENTS OF STATE AGENCIES, UNLESS AN EXEMPTION HAS BEEN GRANTED PURSUANT TO THAT STATUTE AND ADMINISTRATIVE RULES AT OAR CHAPTER 137, DIVISION 45.

STATE OF OREGON
GENERAL CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS
JANUARY 1, 2012, modified by Reynolds School District July 19, 2016

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STATE OF OREGON
GENERAL CONDITIONS FOR PUBLIC IMPROVEMENT CONTRACTS
("General Conditions")

SECTION A
GENERAL PROVISIONS

A.1 DEFINITION OF TERMS

In the Contract Documents the following terms shall be as defined below:

ARCHITECT/ENGINEER, means the Person appointed by the Owner to make drawings and specifications and, to provide contract administration of the Work contemplated by the Contract to the extent provided herein or by supplemental instruction of Owner (under which Owner may delegate responsibilities of the Owner's Authorized Representative to the Architect/Engineer), in accordance with ORS Chapter 671 (Architects) or ORS Chapter 672 (Engineers) and administrative rules adopted thereunder.

CHANGE ORDER, means a written order issued by the Owner's Authorized Representative to the Contractor requiring a change in the Work within the general scope of the Contract Documents, issued under the changes provisions of Section D.1 including Owner's written change directives as well as changes reflected in a writing executed by the parties to this Contract and, if applicable, establishing a Contract Price or Contract Time adjustment for the changed Work.

CLAIM, means a demand by Contractor pursuant to Section D.3 for review of the denial of Contractor's initial request for an adjustment of Contract terms, payment of money, extension of Contract Time or other relief, submitted in accordance with the requirements and within the time limits established for review of Claims in these General Conditions.

CONTRACT, means the written agreement between the Owner and the Contractor comprised of the Contract Documents which describe the Work to be done and the obligations between the parties.

CONTRACT DOCUMENTS, means the Solicitation Document and addenda thereto, the State of Oregon Public Improvement Agreement Form, General Conditions, Supplemental General Conditions, if any, the accepted Offer, Plans, Specifications, amendments and Change Orders.

CONTRACT PERIOD, as set forth in the Contract Documents, means the total period of time beginning with the issuance of the Notice to Proceed and concluding upon Final Completion.

CONTRACT PRICE, means the total of the awarded Offer amount, as increased or decreased by the price of approved alternates and Change Orders.

CONTRACT TIME, means any incremental period of time allowed under the Contract to complete any portion of the Work as reflected in the project schedule.

CONTRACTOR, means the Person awarded the Contract for the Work contemplated.

DAYS, are calendar days, including weekdays, weekends and holidays, unless otherwise specified.

DIRECT COSTS, means, unless otherwise provided in the Contract Documents, the cost of materials, including sales tax, cost of delivery; cost of labor, including social security, old age and unemployment insurance, and fringe benefits required by agreement or custom; worker's compensation insurance; project specific insurance (including, without limitation, Builder's Risk Insurance and Builder's Risk Installation Floater); bond premiums, rental cost of equipment, and machinery required for execution of the work; and the additional costs of field personnel directly attributable to the Work.

FINAL COMPLETION, means the final completion of all requirements under the Contract, including Contract Closeout as described in Section K but excluding Warranty Work as described in Section I.2, and the final payment and release of all retainage, if any, released.

FORCE MAJEURE, means an act, event or occurrence caused by fire, riot, war, acts of God, nature, sovereign, or public enemy, strikes, freight embargoes or any other act, event or occurrence that is beyond the control of the party to this Contract who is asserting Force Majeure.

NOTICE TO PROCEED, means the official written notice from the Owner stating that the Contractor is to proceed with the Work defined in the Contract Documents. Notwithstanding the Notice to Proceed, Contractor shall not be authorized to proceed with the Work until all initial Contract requirements, including the Contract, performance bond and payment bond, and certificates of insurance, have been fully executed and submitted to Owner in a suitable form.

OFFER, means a bid in connection with an invitation to bid and a proposal in connection with a request for proposals.

OFFEROR, means a bidder in connection with an invitation to bid and a proposer in connection with a request for proposals.

OVERHEAD, means those items which may be included in the Contractor's markup (general and administrative expense and profit) and that shall not be charged as Direct Cost of the Work, including without limitation such Overhead expenses as wages or salary of personnel above the level of foreman (i.e., superintendents and project managers), expenses of Contractor's offices at the job

site (e.g. job trailer) including expenses of personnel staffing the job site office, and Commercial General Liability Insurance and Automobile Liability Insurance.

OWNER, means the State of Oregon acting by and through the governmental entity identified in the Solicitation Document.

OWNER'S AUTHORIZED REPRESENTATIVE, means those individuals identified in writing by the Owner to act on behalf of the Owner for this project. Owner may elect, by written notice to Contractor, to delegate certain duties of the Owner's Authorized Representative to more than one party, including without limitation, to an Architect/Engineer. However, nothing in these General Conditions is intended to abrogate the separate design professional responsibilities of Architects under ORS Chapter 671 or of Engineers under ORS Chapter 672.

PERSON, means an entity doing business as a sole proprietorship, a partnership, a joint venture, a corporation, a limited liability company or partnership, or any other entity possessing the legal capacity to contract.

PLANS, means the drawings which show the location, type, dimensions, and details of the Work to be done under the Contract.

PUNCHLIST, means the list of Work yet to be completed or deficiencies which need to be corrected in order to achieve Final Completion of the Contract.

RECORD DOCUMENT, means the as-built Plans, Specifications, testing and inspection records, product data, samples, manufacturer and distributor/supplier warranties evidencing transfer to Owner, operational and maintenance manuals, shop drawings, Change Orders, correspondence, certificate(s) of occupancy, and other documents listed in Subsection B.9.1 of these General Conditions, recording all Services performed.

SOLICITATION DOCUMENT, means an invitation to bid or request for proposal or request for quotes.

SPECIFICATION, means any description of the physical or functional characteristics of the Work, or of the nature of a supply, service or construction item. Specifications may include a description of any requirement for inspecting, testing or preparing a supply, service or construction item for delivery and the quantities or qualities of materials to be furnished under the Contract. Specifications generally will state the results or products to be obtained and may, on occasion, describe the method and manner of doing the work to be performed. Specifications may be incorporated by reference and/or may be attached to the Contract.

SUBCONTRACTOR, means a Person having a direct contract with the Contractor, or another Subcontractor, to perform one or more items of the Work.

SUBSTANTIAL COMPLETION, means the date when the Owner accepts in writing the construction, alteration or repair of the improvement to real property or any designated portion thereof as having reached that state of completion when it may be used or occupied for its intended purpose. Substantial Completion of facilities with operating systems occurs only after thirty (30) continuous Days of successful, trouble-free operation of the operating systems as provided in Section K.4.2.

SUBSTITUTIONS, means items that in function, performance, reliability, quality, and general configuration are the same or better than the product(s) specified. Approval of any substitute item shall be solely determined by the Owner's Authorized Representative. The decision of the Owner's Authorized Representative is final.

SUPPLEMENTAL GENERAL CONDITIONS, means those conditions that remove from, add to, or modify these General Conditions. Supplemental General Conditions may be included in the Solicitation Document or may be a separate attachment to the Contract.

WORK, means the furnishing of all materials, equipment, labor, transportation, services and incidentals necessary to successfully complete any individual item or the entire Contract and the carrying out of duties and obligations imposed by the Contract Documents.

A.2 SCOPE OF WORK

The Work contemplated under this Contract includes all labor, materials, transportation, equipment and services for, and incidental to, the completion of all construction work in connection with the project described in the Contract Documents. The Contractor shall perform all Work necessary so that the project can be legally occupied and fully used for the intended use as set forth in the Contract Documents.

A.3 INTERPRETATION OF CONTRACT DOCUMENTS

A.3.1 Unless otherwise specifically defined in the Contract Documents, words which have well-known technical meanings or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings. Contract Documents are intended to be complementary. Whatever is called for in one, is interpreted to be called for in all. However, in the event of conflicts or discrepancies among the Contract Documents, interpretations will be based on the following descending order of precedence:

1. Contract amendments and Change Orders, with those of later date having precedence over those of an earlier date;
2. The Supplemental General Conditions;
3. The State of Oregon Public Improvement Agreement Form;
4. The General Conditions

5. The Plans and Specifications

6. The Solicitation Document and any addenda thereto;

7. The accepted Offer.

A.3.2 In the case of an inconsistency between Plans and Specifications or within either document not clarified by addendum, the better quality or greater quantity of Work shall be provided in accordance with the Owner or Owner's Authorized Representative's interpretation in writing.

A.3.3 If the Contractor finds discrepancies in, or omissions from the Contract Documents, or if the Contractor is in doubt as to their meaning, the Contractor shall at once notify the Owner or Owner's Authorized Representative. Matters concerning performance under, and interpretation of requirements of, the Contract Documents will be decided by the Owner's Authorized Representative, who may delegate that duty in some instances to the Architect/Engineer. Responses to Contractor's requests for interpretation of Contract Documents will be made in writing by Owner's Authorized Representative (or the Architect/Engineer) within any time limits agreed upon or otherwise with reasonable promptness.

Interpretations and decisions of the Owner's Authorized Representative (or Architect/Engineer) will be consistent with the intent of and reasonably inferable from the Contract Documents. Contractor shall not proceed without direction in writing from the Owner's Authorized Representative (or Architect/Engineer).

A.3.4 References to standard specifications, manuals, codes of any technical society, organization or association, to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, laws or regulations in effect in the jurisdiction where the project is occurring on the first published date of the Solicitation Document, except as may be otherwise specifically stated.

A.4 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE

A.4.1 It is understood that the Contractor, before submitting an Offer, has made a careful examination of the Contract Documents; has become fully informed as to the quality and quantity of materials and the character of the Work required; and has made a careful examination of the location and conditions of the Work and the sources of supply for materials. The Owner will in no case be responsible for any loss or for any unanticipated costs that may be suffered by the Contractor as a result of the Contractor's failure to acquire full information in advance in regard to all conditions pertaining to the Work. No oral agreement or conversation with any officer, agent, or personnel of the Owner, or with the Architect/Engineer either before or after the execution of this Contract, shall affect or modify any of the terms or obligations herein contained.

A.4.2 Should the Plans or Specifications fail to particularly describe the materials, kind of goods, or details of construction of any aspect of the Work, Contractor shall have the duty to make inquiry of the Owner and Architect/Engineer as to what is required prior to performance of the Work. Absent Specifications to the contrary, the materials or processes that would normally be used to produce first quality finished Work shall be considered a part of the Contract requirements.

A.4.3 Any design errors or omissions noted by the Contractor shall be reported promptly to the Owner's Authorized Representative, including without limitation, any nonconformity with applicable laws, statutes, ordinances, building codes, rules and regulations.

A.4.4 If the Contractor believes that additional cost or Contract Time is involved because of clarifications or instructions issued by the Owner's Authorized Representative (or Architect/Engineer) in response to the Contractor's notices or requests for information, the Contractor must submit a written request to the Owner's Authorized Representative, setting forth the nature and specific extent of the request, including all time and cost impacts against the Contract as soon as possible, but no later than thirty (30) Days after receipt by Contractor of the clarifications or instructions issued. If the Owner's Authorized Representative denies Contractor's request for additional compensation, additional Contract Time, or other relief that Contractor believes results from the clarifications or instructions, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process. If the Contractor fails to perform the obligations of Sections A.4.1 to A.4.3, the Contractor shall pay such costs and damages to the Owner as would have been avoided if the Contractor had performed such obligations.

A.5 INDEPENDENT CONTRACTOR STATUS

The service or services to be performed under this Contract are those of an independent contractor as defined in ORS 670.600. Contractor represents and warrants that it is not an officer, employee or agent of the Owner.

A.6 RETIREMENT SYSTEM STATUS AND TAXES

Contractor represents and warrants that it is not a contributing member of the Public Employees' Retirement System and will be responsible for any federal or state taxes applicable to payment received under this Contract. Contractor will not be eligible for any benefits from these Contract payments of federal Social Security, employment insurance, workers' compensation or the Public Employees' Retirement System, except as a self-employed individual. Unless the Contractor is subject to backup withholding, Owner will not withhold from such payments any amount(s) to cover Contractor's federal or state tax obligations.

A.7 GOVERNMENT EMPLOYMENT STATUS

A.7.1 If this payment is to be charged against federal funds, Contractor represents and warrants that it is not currently employed by

the Federal Government. This does not preclude the Contractor from holding another contract with the Federal Government.

A.7.2 Contractor represents and warrants that Contractor is not an employee of the State of Oregon for purposes of performing Work under this Contract.

SECTION B
ADMINISTRATION OF THE CONTRACT

B.1 OWNER'S ADMINISTRATION OF THE CONTRACT

B.1.1 The Owner's Authorized Representative will provide administration of the Contract as described in the Contract Documents (1) during construction (2) until final payment is due and (3) during the one-year period for correction of Work. The Owner's Authorized Representative will act on behalf of the Owner to the extent provided in the Contract Documents, unless modified in writing in accordance with other provisions of the Contract. In performing these tasks, the Owner's Authorized Representative may rely on the Architect/Engineer or other consultants to perform some or all of these tasks.

B.1.2 The Owner's Authorized Representative will visit the site at intervals appropriate to the stage of the Contractor's operations (1) to become generally familiar with and to keep the Owner informed about the progress and quality of the portion of the Work completed, (2) to endeavor to guard the Owner against defects and deficiencies in the Work, and (3) to determine in general if Work is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. The Owner's Authorized Representative will not make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Owner's Authorized Representative will neither have control over or charge of, nor be responsible for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work.

B.1.3 Except as otherwise provided in the Contract Documents or when direct communications have been specifically authorized, the Owner and Contractor shall endeavor to communicate with each other through the Owner's Authorized Representative or designee about matters arising out of or relating to the Contract. Communications by and with the Architect/Engineer's consultants shall be through the Architect/Engineer. Communications by and with Subcontractors and material suppliers shall be through the Contractor. Communications by and with separate contractors shall be through the Owner's Authorized Representative.

B.1.4 Based upon the Architect/Engineer's evaluations of the Contractor's Application for Payment, or unless otherwise stipulated by the Owner's Authorized Representative, the Architect/Engineer will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

B.2 CONTRACTOR'S MEANS AND METHODS; MITIGATION OF IMPACTS

B.2.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences or procedures, the Contractor shall evaluate the jobsite safety thereof and, except as stated below, shall be fully and solely responsible for the jobsite safety of such means, methods, techniques, sequences or procedures.

B.2.2 The Contractor is responsible to protect and maintain the Work during the course of construction and to mitigate any adverse impacts to the project, including those caused by authorized changes, which may affect cost, schedule, or quality.

B.2.3 The Contractor is responsible for the actions of all its personnel, laborers, suppliers, and Subcontractors on the project. The Contractor shall enforce strict discipline and good order among Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of persons who are unfit or unskilled for the tasks assigned to them.

B.3 MATERIALS AND WORKMANSHIP

B.3.1 The intent of the Contract Documents is to provide for the construction and completion in every detail of the Work described. All Work shall be performed in a professional manner and unless the means or methods of performing a task are specified elsewhere in the Contract Documents, Contractor shall employ methods that are generally accepted and used by the industry, in accordance with industry standards.

B.3.2 The Contractor is responsible to perform the Work as required by the Contract Documents. Defective Work shall be corrected at the Contractor's expense.

B.3.3 Work done and materials furnished shall be subject to inspection and/or observation and testing by the Owner's Authorized Representative to determine if they conform to the Contract Documents. Inspection of the Work by the Owner's Authorized Representative does not relieve the Contractor of responsibility for the Work in accordance with the Contract Documents.

B.3.4 Contractor shall furnish adequate facilities, as required, for the Owner's Authorized Representative to have safe access to the Work including without limitation walkways, railings, ladders, tunnels, and platforms. Producers, suppliers, and fabricators shall also provide proper facilities and access to their facilities.

B.3.5 The Contractor shall furnish Samples of materials for testing by the Owner's Authorized Representative and include the

cost of the Samples in the Contract Price.

B.4 PERMITS

Contractor shall obtain and pay for all necessary permits and licenses, except for those specifically excluded in the Supplemental General Conditions, for the construction of the Work, for temporary obstructions, enclosures, opening of streets for pipes, walls, utilities, environmental Work, etc., as required for the project. Contractor shall be responsible for all violations of the law, in connection with the construction or caused by obstructing streets, sidewalks or otherwise. Contractor shall give all requisite notices to public authorities. The Contractor shall pay all royalties and license fees. The Contractor shall defend all suits or claims for infringement of any patent or other proprietary rights and save harmless and blameless from loss, on account thereof, the State of Oregon, and its departments, divisions, members and employees.

B.5 COMPLIANCE WITH GOVERNMENT LAWS AND REGULATIONS

B.5.1 Contractor shall comply with all federal, state and local laws, codes, regulations and ordinances applicable to the Work and the Contract. Failure to comply with such requirements shall constitute a breach of Contract and shall be grounds for Contract termination. Without limiting the generality of the foregoing, Contractor expressly agrees to comply with the following as applicable: i) Title VI and VII of Civil Rights Act of 1964, as amended; (ii) Section 503 and 504 of the Rehabilitation Act of 1973, as amended; (iii) the Health Insurance Portability and Accountability Act of 1996; (iv) the Americans with Disabilities Act of 1990, as amended; (v) ORS Chapter 659A; as amended (vi) all regulations and administrative rules established pursuant to the foregoing laws; and (vii) all other applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations. Owner's performance under the Contract is conditioned upon Contractor's compliance with the provisions of ORS 279C.505, 279C.510, 279C.515, 279C.520, and 279C.530, which are incorporated by reference herein.

B.5.2 Contractor shall comply with all applicable requirements of federal and state civil rights and rehabilitation statutes, rules and regulations; and

(a) Contractor shall not discriminate against Disadvantaged, Minority, Women or Emerging Small Business enterprises, as those terms are defined in ORS 200.005, or a business enterprise that is owned or controlled by or that employs a disabled veteran, as that term is defined in ORS 408.225**,** in the awarding of subcontracts.

(b) Contractor shall maintain, in current and valid form, all licenses and certificates required by law, regulation, or this Contract when performing the Work.

B.5.3 Unless contrary to federal law, Contractor shall certify that it shall not accept a bid from Subcontractors to perform Work as described in ORS 701.005 under this Contract unless such Subcontractors are registered with the Construction Contractors Board in accordance with ORS 701.035 to 701.055 at the time they submit their bids to the Contractor.

B.5.4 Unless contrary to federal law, Contractor shall certify that each landscape contractor, as defined in ORS 671.520(2), performing Work under this Contract holds a valid landscape contractor's license issued pursuant to ORS 671.560.

B.5.5 The following notice is applicable to Contractors who perform excavation Work. ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center at (503)232-1987.

B.5.6 Failure to comply with any or all of the requirements of B.5.1 through B.5.5 shall be a breach of Contract and constitute grounds for Contract termination. Damages or costs resulting from such noncompliance shall be the responsibility of Contractor.

B.6 SUPERINTENDENCE

Contractor shall keep on the site, during the progress of the Work, a competent superintendent and any necessary assistants who shall be satisfactory to the Owner and who shall represent the Contractor on the site. Directions given to the superintendent by the Owner's Authorized Representative shall be confirmed in writing to the Contractor.

B.7 INSPECTION

B.7.1 Owner's Authorized Representative shall have access to the Work at all times.

B.7.2 Inspection of the Work will be made by the Owner's Authorized Representative at its discretion. The Owner's Authorized Representative will have authority to reject Work that does not conform to the Contract Documents. Any Work found to be not in conformance with the Contract Documents, in the discretion of the Owner's Authorized Representative, shall be removed and replaced at the Contractor's expense. Contractor shall make or obtain at the appropriate time all tests, inspections and approvals of portions of the Work required by the Contract Documents or by laws, ordinances, rules, regulations or orders of public authorities having jurisdiction. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work. The Contractor shall give the Owner's Authorized Representative timely notice of when and where tests and inspections are to be made so that the Owner's Authorized Representative may be present for such procedures. Required certificates of

testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Owner's Authorized Representative.

B.7.3 As required by the Contract Documents, Work done or material used without inspection or testing by the Owner's Authorized Representative may be ordered removed at the Contractor's expense.

B.7.4 If directed to do so any time before the Work is accepted, the Contractor shall uncover portions of the completed Work for inspection. After inspection, the Contractor shall restore such portions of Work to the standard required by the Contract. If the Work uncovered is unacceptable or was done without sufficient notice to the Owner's Authorized Representative, the uncovering and restoration shall be done at the Contractor's expense. If the Work uncovered is acceptable and was done with sufficient notice to the Owner's Authorized Representative, the uncovering and restoration will be paid for as a Change Order.

B.7.5 If any testing or inspection reveals failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Owner's Authorized Representative's and Architect/Engineer's services and expenses, shall be at the Contractor's expense.

B.7.6 When the United States government participates in the cost of the Work, or the Owner has an agreement with other public or private organizations, or if any portion of the Work is being performed for a third party or in close proximity to third party facilities, representatives of these organizations have the right to inspect the Work affecting their interests or property. Their right to inspect shall not make them a party to the Contract and shall not interfere with the rights of the parties of the Contract. Instructions or orders of such parties shall be transmitted to the Contractor, through the Owner's Authorized Representative.

B.8 SEVERABILITY

If any provision of this Contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular provision held to be invalid.

B.9 ACCESS TO RECORDS

B.9.1 Contractor shall keep, at all times on the Work site, one record copy of the complete Contract Documents, including the Plans, Specifications, Change Orders and addenda, in good order and marked currently to record field changes and selections made during construction, and one record copy of Shop Drawings, Product Data, Samples and similar submittals, and shall at all times give the Owner's Authorized Representative access thereto.

B.9.2 Contractor shall retain and the Owner and its duly authorized representatives shall have access to, for a period not less than ten (10) years, all Record Documents, financial and accounting records, and other books, documents, papers and records of Contractor which are pertinent to the Contract including records pertaining to Overhead and indirect costs, for the purpose of making audit, examination, excerpts and transcripts. If for any reason, any part of the Contract is involved in litigation, Contractor shall retain all such records until all litigation is resolved. The Owner and/or its agents shall continue to be provided full access to the records during litigation.

B.10 WAIVER

Failure of the Owner to enforce any provision of this Contract shall not constitute a waiver or relinquishment by the Owner of the right to such performance in the future nor of the right to enforce any other provision of this Contract.

B.11 SUBCONTRACTS AND ASSIGNMENT

B.11.1 Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound by the terms and conditions of these General Conditions, and to assume toward the Contractor all of the obligations and responsibilities which the Contractor assumes toward the Owner thereunder, unless (1) the same are clearly inapplicable to the subcontract at issue because of legal requirements or industry practices, or (2) specific exceptions are requested by Contractor and approved in writing by Owner. Where appropriate, Contractor shall require each Subcontractor to enter into similar agreements with sub-subcontractors at any level.

B.11.2 At Owner's request, Contractor shall submit to Owner prior to their execution either Contractor's form of subcontract, or the subcontract to be executed with any particular Subcontractor. If Owner disapproves such form, Contractor shall not execute the form until the matters disapproved are resolved to Owner's satisfaction. Owner's review, comment upon or approval of any such form shall not relieve Contractor of its obligations under this Agreement or be deemed a waiver of such obligations of Contractor.

B.11.3 Contractor shall not assign, sell, or transfer its rights, or delegate its responsibilities under this Contract, in whole or in part, without the prior written approval of the Owner. No such written approval shall relieve Contractor of any obligations of this Contract, and any transferee shall be considered the agent of the Contractor and bound to perform in accordance with the Contract Documents. Contractor shall remain liable as between the original parties to the Contract as if no assignment had occurred.

B.12 SUCCESSORS IN INTEREST

The provisions of this Contract shall be binding upon and shall accrue to the benefit of the parties to the Contract and their respective permitted successors and assigns.

B.13 OWNER'S RIGHT TO DO WORK

Owner reserves the right to perform other or additional work at or near the project site with other forces than those of the Contractor. If such work takes place within or next to the project site, Contractor will coordinate work with the other contractors or forces, cooperate with all other contractors or forces, carry out the Work in a way that will minimize interference and delay for all forces involved, place and dispose of materials being used so as not to interfere with the operations of another, and join the Work with the work of the others in an acceptable manner and perform it in proper sequence to that of the others. The Owner's Authorized Representative will resolve any disagreements that may arise between or among Contractor and the other contractors over the method or order of doing all work (including the Work). In case of unavoidable interference, the Owner's Authorized Representative will establish work priority (including the Work) which generally will be in the sequence that the contracts were awarded.

B.14 OTHER CONTRACTS

In all cases and at any time, the Owner has the right to execute other contracts related to or unrelated to the Work of this Contract. The Contractor of this Contract will fully cooperate with any and all other contractors without additional cost to the Owner in the manner described in section B.13.

B.15 GOVERNING LAW

This Contract shall be governed by and construed in accordance with the laws of the State of Oregon without regard to principles of conflict of laws.

B.16 LITIGATION

Any Claim between Owner and Contractor that arises from or relates to this Contract and that is not resolved through the Claims Review Process in Section D.3 shall be brought and conducted solely and exclusively within the Circuit Court of Clackamas County for the State of Oregon; provided, however, if a Claim must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this section be construed as a waiver by the State of Oregon on any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. CONTRACTOR BY EXECUTION OF THIS CONTRACT HEREBY CONSENTS TO THE IN PERSONAM JURISDICTION OF THE COURTS REFERENCED IN THIS SECTION B.16.

B.17 ALLOWANCES

B.17.1 The Contractor shall include in the Contract Price all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct.

B.17.2 Unless otherwise provided in the Contract Documents:

(a) when finally reconciled, allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;

(b) Contractor's costs for unloading and handling at the site, labor, installation costs, Overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the Contract Price but not in the allowances;

(c) whenever costs are more than or less than allowances, the Contract Price shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (i) the difference between actual costs and the allowances under Section B.17.2(a) and (2) changes in Contractor's costs under Section B.17.2(b).

(d) Unless Owner requests otherwise, Contractor shall provide to Owner a proposed fixed price for any allowance work prior to its performance.

B.18 SUBMITTALS, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

B.18.1 The Contractor shall prepare and keep current, for the Architect's/Engineer's approval (or for the approval of Owner's Authorized Representative if approval authority has not been delegated to the Architect/Engineer), a schedule and list of submittals which is coordinated with the Contractor's construction schedule and allows the Architect/Engineer reasonable time to review submittals. Owner reserves the right to finally approve the schedule and list of submittals. Submittals include, without limitation, Shop Drawings, Product Data, and Samples which are described below:

(a) Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by the Contractor or a Subcontractor (including any sub-subcontractor), manufacturer, supplier or distributor to illustrate some portion of the Work.

(b) Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

(c) Samples are physical examples which illustrate materials, equipment or workmanship and establish standards by which

the Work will be judged.

B.18.2 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required by the Contract Documents the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents. Review of submittals by the Architect/Engineer is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, or for approval of safety precautions or, unless otherwise specifically stated by the Architect/Engineer, of any construction means, methods, techniques, sequences or procedures, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect/Engineer's review of the Contractor's submittals shall not relieve the Contractor of its obligations under the Contract Documents. The Architect/Engineer's approval of a specific item shall not indicate approval of an assembly of which the item is a component. Informational submittals upon which the Architect/Engineer is not expected to take responsive action may be so identified in the Contract Documents. Submittals which are not required by the Contract Documents may be returned by the Architect/Engineer without action.

B.18.3 The Contractor shall review for compliance with the Contract Documents, approve and submit to the Architect/Engineer Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of separate contractors. Submittals which are not marked as reviewed for compliance with the Contract Documents and approved by the Contractor may be returned by the Architect/Engineer without action.

B.18.4 By approving and submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents that the Contractor has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

B.18.5 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect/Engineer.

B.18.6 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect/Engineer's review or approval of Shop Drawings, Product Data, Samples or similar submittals unless the Contractor has specifically informed the Architect/Engineer in writing of such deviation at the time of submittal and (i) the Architect/Engineer has given written approval to the specific deviation as a minor change in the Work, or
(ii) a Change Order has been executed by Owner authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by the Architect/Engineer's review or approval thereof.

B.18.7 In the event that Owner elects not to have the obligations and duties described under this Section B.18 performed by the Architect/Engineer, or in the event no Architect/Engineer is employed by Owner on the project, all obligations and duties assigned to the Architect/Engineer hereunder shall be performed by the Owner's Authorized Representative.

B.20 SUBSTITUTIONS

The Contractor may make Substitutions only with the consent of the Owner, after evaluation by the Owner's Authorized Representative and only in accordance with a Change Order. Substitutions shall be subject to the requirements of the bid documents. By making requests for Substitutions, the Contractor represents that the Contractor has personally investigated the proposed substitute product; represents that the Contractor will provide the same warranty for the Substitution that the Contractor would for the product originally specified unless approved otherwise; certifies that the cost data presented is complete and includes all related costs under this Contract including redesign costs, and waives all claims for additional costs related to the Substitution which subsequently become apparent; and will coordinate the installation of the accepted Substitution, making such changes as may be required for the Work to be completed in all respects.

B.21 USE OF PLANS AND SPECIFICATIONS

Plans, Specifications and related Contract Documents furnished to Contractor by Owner or Owner's Architect/Engineer shall be used solely for the performance of the Work under this Contract. Contractor and its Subcontractors and suppliers are authorized to use and reproduce applicable portions of such documents appropriate to the execution of the Work, but shall not claim any ownership or other interest in them beyond the scope of this Contract, and no such interest shall attach. Unless otherwise indicated, all common law, statutory and other reserved rights, in addition to copyrights, are retained by Owner.

B.22 FUNDS AVAILABLE AND AUTHORIZED

Owner reasonably believes at the time of entering into this Contract that sufficient funds are available and authorized for expenditure to finance the cost of this Contract within the Owner's appropriation or limitation. Contractor understands and agrees that, to the extent that sufficient funds are not available and authorized for

expenditure to finance the cost of this Contract, Owner's payment of amounts under this Contract attributable to Services performed after the last day of the current biennium is contingent on Owner receiving from the Oregon Legislative Assembly appropriations, limitations or other expenditure authority sufficient to allow Owner, in the exercise of its reasonable administrative discretion, to continue to make payments under this Contract.

B.23 NO THIRD PARTY BENEFICIARIES

Owner and Contractor are the only parties to this Contract and are the only parties entitled to enforce its terms. Nothing in this Contract gives, is intended to give, or shall be construed to give or provide any benefit or right, whether directly, indirectly, or otherwise, to third persons unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of the terms of this Contract.

SECTION C
WAGES AND LABOR

C.1 MINIMUM WAGE RATES ON PUBLIC WORKS

Contractor shall comply fully with the provisions of ORS 279C.800 through 279C.870. Documents establishing those conditions, as determined by the Commissioner of the Bureau of Labor and Industries (BOLI), are included as attachments to or are incorporated by reference in the Contract Documents. Contractor shall pay workers at not less than the specified minimum hourly rate of wage, and shall include that requirement in all subcontracts.

C.2 PAYROLL CERTIFICATION; ADDITIONAL RETAINAGE; FEE REQUIREMENTS

C.2.1 In accordance with ORS 279C.845, the Contractor and every Subcontractor shall submit written certified statements to the Owner's Authorized Representative, on the form prescribed by the Commissioner of the Bureau of Labor and Industries, certifying the hourly rate of wage paid each worker which the Contractor or the Subcontractor has employed on the project and further certifying that no worker employed on the project has been paid less than the prevailing rate of wage or less than the minimum hourly rate of wage specified in the Contract, which certificate and statement shall be verified by the oath of the Contractor or the Subcontractor that the Contractor or Subcontractor has read the certified statement, that the Contractor or Subcontractor knows the contents of the certified statement and that to the Contractor's or Subcontractor's best knowledge and belief the certified statement is true. The certified statements shall set out accurately and completely the payroll records for the prior week including the name and address of each worker, the worker's correct classification, rate of pay, daily and weekly number of hours worked, deductions made and actual wages paid. Certified statements for each week during which the Contractor or Subcontractor has employed a worker on the project shall be submitted once a month, by the fifth business day of the following month.

The Contractor and Subcontractors shall preserve the certified statements for a period of ten (10) years from the date of completion of the Contract.

C2.2 Pursuant to ORS 279C.845(7),the Owner shall retain 25 percent of any amount earned by the Contractor on this public works project until the Contractor has filed the certified statements required by section C.2.1. The Owner shall pay to the Contractor the amount retained under this subsection within 14 days after the Contractor files the required certified statements, regardless of whether a Subcontractor has failed to file certified statements.

C.2.2 Pursuant to ORS 279C.845(8), the Contractor shall retain 25 percent of any amount earned by a first- tier Subcontractor on this public works project until the first-tier Subcontractor has filed with the Owner the certified statements required by C.2.1. Before paying any amount retained under this subsection, the Contractor shall verify that the first- tier Subcontractor has filed the certified statement, Within 14 days after the first- tier Subcontractor files the required certified statement the Contractor shall pay the first-tier Subcontractor any amount retained under this subsection.

C.2.3 In accordance with statutory requirements, and administrative rules promulgated by the Commissioner of the Bureau of Labor and Industries, the fee required by ORS 279C.825(1) will be paid by Owner to the Commissioner.

C.3 PROMPT PAYMENT AND CONTRACT CONDITIONS

C.3.1 Pursuant to ORS 279C.505 and as a condition to Owner's performance hereunder, the Contractor shall:

C.3.1.1 Make payment promptly, as due, to all persons supplying to Contractor labor or materials for the prosecution of the Work provided for in this Contract.

C.3.1.2 Pay all contributions or amounts due the State Industrial Accident Fund from such Contractor or Subcontractor incurred in the performance of the Contract.

C.3.1.3 Not permit any lien or claim to be filed or prosecuted against the Owner on account of any labor or material furnished. Contractor will not assign any claims that Contractor has against Owner, or assign any sums due by Owner, to Subcontractors, suppliers, or manufacturers, and will not make any agreement or act in any way to give Subcontractors a claim or standing to make a claim against the Owner.

C.3.1.4 Pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

C.3.1.5 Demonstrate that an employee drug testing program is in place as follows:

(a) Contractor represents and warrants that Contractor has in place at the time of the execution of this Contract, and shall maintain during the term of this Contract, a Qualifying Employee Drug Testing Program for its employees that includes, at a minimum, the following:

(1) A written employee drug testing policy,

(2) Required drug testing for all new Subject Employees or, alternatively, required testing of all Subject Employees every 12 months on a random selection basis, and

(3) Required testing of a Subject Employee when the Contractor has reasonable cause to believe the Subject Employee is under the influence of drugs.

A drug testing program that meets the above requirements will be deemed a "Qualifying Employee Drug Testing Program." For the purposes of this section, an employee is a "Subject Employee" only if that employee will be working on the project job site.

(b) Contractor shall require each Subcontractor providing labor for the project to:

(1) Demonstrate to the Contractor that it has a Qualifying Employee Drug Testing Program for the Subcontractor's Subject Employees, and represent and warrant to the Contractor that the Qualifying Employee Drug Testing Program is in place at the time of subcontract execution and will continue in full force and effect for the duration of the subcontract, or

(2) Require that the Subcontractor's Subject Employees participate in the Contractor's Qualifying Employee Drug Testing Program for the duration of the subcontract.

C.3.2 Pursuant to ORS 279C.515, and as a condition to Owner's performance hereunder, Contractor agrees:

C.3.2.1 If Contractor fails, neglects or refuses to pay promptly a person's claim for labor or services that the person provides to the Contractor or a Subcontractor in connection with the project as such claim becomes due, the proper officer that represents the Owner may pay the amount of the claim and charge the amount of the payment against funds due or to become due Contractor under this Contract. Paying a claim in this manner shall not relieve the Contractor or the Contractor's surety from obligation with respect to an unpaid claim.

C.3.2.2 If the Contractor or a first-tier Subcontractor fails, neglects or refuses to pay a person that provides labor or materials in connection with the public contract for a public improvement within thirty (30) Days after receiving payment from Owner or a contractor, the contractor or first-tier Subcontractor owes the person the amount due plus interest charges that begin at the end of the 10-Day period within which payment is due under ORS 279C.580(3) and that end upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580. The rate of interest on the amount due is nine percent per annum. The amount of interest may not be waived.

C.3.2.3 If the Contractor or a Subcontractor fails, neglects or refuses to pay a person that provides labor or materials in connection with the Contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580. Every contract related to this Contract must contain a similar clause.

C.3.2.4 Pursuant to ORS 279C.580, Contractor shall include in each subcontract for property or services the Contractor enters into with a first-tier Subcontractor, including a material supplier, for the purpose of performing a construction contract:

(a) A payment clause that obligates the Contractor to pay the first-tier Subcontractor for satisfactory performance under the subcontract within ten (10) Days out of amounts the Owner pays to the Contractor under the Contract;

(b) A clause that requires the Contractor to provide the first-tier Subcontractor with a standard form that the first-tier Subcontractor may use as an application for payment or as another method by which the Subcontractor may claim a payment due from the Contractor;

(c) A clause that requires the Contractor, except as otherwise provided in this paragraph, to use the same form and regular administrative procedures for processing payments during the entire term of the subcontract. The Contractor may change the form or the regular administrative procedures the Contractor uses for processing payments if the Contractor:

(1) Notifies the Subcontractor in writing at least 45 days before the date on which the Contractor makes the change; and

(2) Includes with the written notice a copy of the new or changed form or a description of the new or changed procedure.

(d) An interest penalty clause that obligates the Contractor, if the Contractor does not pay the first-tier Subcontractor within thirty (30) Days after receiving payment from Owner, to pay the first-tier Subcontractor an interest penalty on amounts due in each payment the Contractor does not make in accordance with the payment clause included in the subcontract under paragraph (a) of this subsection. Contractor or first-tier Subcontractor is not obligated to pay an interest penalty if

the only reason that the Contractor or first-tier Subcontractor did not make payment when payment was due is that the Contractor or first-tier Subcontractor did not receive payment from Owner or Contractor when payment was due. The interest penalty applies to the period that begins on the day after the required payment date and that ends on the date on which the amount due is paid; and is computed at the rate specified in ORS 279C.515(2).

(e) A clause which requires each of Contractor's Subcontractors to include, in each of their contracts with lower-tier Subcontractors or suppliers, provisions to the effect that the first- tier Subcontractor shall pay its lower-tier Subcontractors and suppliers in accordance with the provisions of paragraphs (a) through (d) above and requiring each of their Subcontractors and suppliers to include such clauses in their subcontracts and supply contracts.

C.3.3 All employers, including Contractor, that employ subject workers who work under this contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. Contractor shall ensure that each of its Subcontractors complies with these requirements.

C.4 PAYMENT FOR MEDICAL CARE

Pursuant to ORS 279C.530, and as a condition to Owner's performance hereunder, Contractor shall promptly, as due, make payment to any person, partnership, association or corporation furnishing medical, surgical, and hospital care or other needed care and attention, incident to sickness or injury, to the employees of such Contractor, all sums of which the Contractor agrees to pay for such services and all moneys and sums which the Contractor has collected or deducted from the wages of personnel pursuant to any law, contract or agreement for the purpose of providing or paying for such services.

C.5 HOURS OF LABOR

As a condition to Owner's performance hereunder, Contractor shall comply with ORS 279C.520, as amended from time to time and incorporated herein by this reference:

Pursuant to ORS 279C.520 and as a condition to Owner's performance hereunder, no person shall be employed to perform Work under this Contract for more than ten (10) hours in any one day or forty (40) hours in any one week, except in cases of necessity, emergency or where public policy absolutely requires it. In such instances, Contractor shall pay the employee at least time and a half pay:

C.5.1 For all overtime in excess of eight (8) hours a day or forty (40) hours in any one week when the work week is five consecutive Days,
Monday through Friday; or

C.5.2 For all overtime in excess of ten (10) hours a day or forty (40) hours in any one week when the work week is four consecutive Days,
Monday through Friday; and

C.5.3 For all Work performed on Saturday and on any legal holiday specified in ORS 279C.540.

This section C.5 will not apply to Contractor's Work under this Contract if Contractor is currently a party to a collective bargaining agreement with any labor organization.

This Section C.5 shall not excuse Contractor from completion of the Work within the time required under this Contract.

SECTION D
CHANGES IN THE WORK

D.1 CHANGES IN WORK

D.1.1 Contractor shall utilize owner provided Construction Change Issues Log (CCI Log) via smartsheet.com to manage all changes to the GMP contingency with owner authorization. The terms of this Contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever without prior written approval of the Owner's Authorized Representative, and then only in a manner consistent with the Change Order provisions of this Section D.1 and after any necessary approvals required by public contracting laws have been obtained. Otherwise, a formal contract amendment is required, which shall not be effective until its execution by the parties to this Contract and all approvals required by public contracting laws have been obtained.

D.1.2 It is mutually agreed that changes in Plans, quantities, or details of construction are inherent in the nature of construction and may be necessary or desirable during the course of construction. Within the general scope of this Contract, the Owner's Authorized Representative may at any time, without notice to the sureties and without impairing the Contract, require changes consistent with this Section D.1. All Change Order Work shall be executed under the conditions of the Contract Documents. Such changes may include, but are not limited to:

(a) Modification of specifications and design.

(b) Increases or decreases in quantities.

(c) Increases or decreases to the amount of Work.

(d) Addition or elimination of any Work item.

(e) Change in the duration of the project.

(f) Acceleration or delay in performance of Work.

(g) Deductive changes.

Deductive changes are those that reduce the scope of the Work, and shall be made by mutual agreement whenever feasible, as determined by Owner. In cases of suspension or partial termination under Section J, Owner reserves the right to unilaterally impose a deductive change an to self-perform such Work, for which the provisions of B.13. (Owner's Right to Do Work) shall then apply.

Adjustments in compensation shall be made under the provisions of D.1.3, in which costs for deductive changes shall be based upon a Direct Costs adjustment together with the related percentage markup specified for profit, Overhead and other indirect costs, unless otherwise agreed to by Owner.

D.1.3. The Owner and Contractor agree that Change Order Work shall be administered and compensated accordingly to the following:

a). Unit pricing may be utilized at the Owner's option when unit prices or solicitation alternates were provided that established the cost for additional Work, and a binding obligation exists under the Contract on the parties covering the terms and conditions of the additional Work.

b). If the Owner elects not to utilize unit pricing, or in the event that unit pricing is not available or appropriate, f*ixed pricing* may be used for Change Order Work. In fixed pricing the basis of payments or total price shall be agreed upon in writing between the parties to the Contract, and shall be established before the Work is done whenever feasible. The mark-ups set forth in D.1.3(c) shall be utilized by the parties as a guide in establishing fixed pricing, and will not be exceeded by Owner without adequate justification. Cost and price data relating to Change Orders shall be supplied by Contractor to Owner upon request, but Owner shall be under no obligation to make such requests.

c). In the event that unit pricing and fixed pricing are not utilized, then Change Order Work shall be performed on a *cost reimbursement* basis for Direct Costs. Such Work shall be compensated on the basis of the actual, reasonable and allowable cost of labor, equipment, and material furnished on the Work performed. In addition, the following markups shall be added to the Contractor's or Subcontractor's Direct Costs as full compensation for profit, Overhead and other indirect costs for Work directly performed with the Contractor's or Subcontractor's own forces:

On Labor..... 10%
On Equipment..... 5%
On Materials..... 5%

When Change Order Work under D.1.3(c) is invoiced by an authorized Subcontractor at any level, each ascending tier Subcontractor or Contractor will be allowed a 5% supplemental mark-up on each piece of subcontract Work covered by such Change Order.

Payments made to the Contractor shall be complete compensation for Overhead, profit, and all costs that were incurred by the Contractor or by other forces furnished by the Contractor, including Subcontractors for Change Order Work. Owner may establish a maximum cost for Change Order Work under this Section D.1.3(c), which shall not be exceeded or reimbursement without additional written authorization from Owner, Contractor shall not re be required to complete such Change Order Work without additional authorization.

D.1.4 Any necessary adjustment of Contract Time that may be required as a result of a Change Order must be agreed upon by the parties before the start of the Change Order Work unless Owner's Authorized Representative authorizes Contractor to start the Work before agreement on Contract Time adjustment. Contractor shall submit any request for additional compensation (and additional Contract Time if Contractor was authorized to start Work before an adjustment of Contract Time was approved) as soon as possible but no later than thirty (30) Days after receipt of the Change Order. If Contractor's request for additional compensation or adjustment of Contract Time is not made within the thirty (30) day time limit, Contractor's requests pertaining to that Change Order are barred. The thirty (30) day time limit for making requests shall not be extended for any reason, including without limitation Contractor's claimed inability to determine the amount of additional compensation or adjustment of Contract Time, unless an extension is grated in writing by Owner. If the Owner's Authorized Representative denies Contractor's request for additional compensation or adjustment of Contract Time, Contractor may proceed to file a Claim under Section D.3. Claims Review Process. No other reimbursement, compensation, or payment will be made, except as provided in Section D.1.5 for impact claims.

D. 1.5 If any Change Order Work under Section D.1.3 causes an increase or decrease in the Contractor's cost of, or the Contract Time required for the performance of any other part of the Work under this Contract, the Contractor must submit a written request to the Owner's Authorized Representative, setting forth the nature and specific extent of the request, including all time and cost impacts against the Contract as soon as possible, but no later than thirty (30) Days after receipt of the Change Order by Contractor.

The thirty (30) day time limit applies to claims of Subcontractors, suppliers, or manufacturers that may be affected by the Change Order and that request additional compensation or an extension of Contract Time to perform; Contractor has responsibility for contacting its Subcontractors, suppliers, or manufacturers within the thirty (30) day time limit, and including their requests with Contractor's requests. If the request involves Work to be completed by Subcontractors, or materials to be furnished by suppliers or manufacturers, such requests shall be submitted to the Contractor in writing with full analysis and justification for the compensation and additional Contract Time requested. The Contractor will analyze and evaluate the merits of the requests submitted by Subcontractors, suppliers, and manufacturers to Contractor prior to including those requests and Contractor's analysis and evaluation of those requests with Contractor's requests for additional compensation or Contract Time that Contractor submits to the Owner's Authorized Representative. Failure of Subcontractors, suppliers, manufacturers or others to submit their requests to Contractor for inclusion with Contractor's requests submitted to Owner's Authorized Representative within the time period and by the means described in this section shall constitute a waiver of these Subcontractor claims. The Owner's Authorized Representative and the Owner will not consider direct requests or claims from Subcontractors, suppliers, manufacturers or others not a party to this Contract. The consideration of such requests and claims under this section does not give any person, not a party to the Contract the right to bring a claim against the State of Oregon, whether in this claims process, in litigation, or in any dispute resolution process.

If the Owner's Authorized Representative denies the Contractor's request for additional compensation or an extension of Contract Time, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process.

D.1.6 No request or Claim by the Contractor for additional costs or an extension of Contract Time shall be allowed if made after receipt of final payment application under this Contract. Contractor agrees to submit its final payment application within ninety (90) days after Substantial Completion, unless written extension is granted by Owner. Contractor shall not delay final payment application for any reason, including without limitation nonpayment of Subcontractors, suppliers, manufacturers or others not a party to this Contract, or lack of resolution of a dispute with Owner or any other person of matters arising out of or relating to the Contract. If Contractor fails to submit its final payment application within ninety (90) days after Substantial Completion, and Contractor has not obtained written extension by Owner, all requests or Claims for additional costs or an extension of Contract Time shall be waived.

D.1.7 It is understood that changes in the Work are inherent in construction of this type. The number of changes, the scope of those changes, and the effect they have on the progress of the original Work cannot be defined at this time. The Contractor is notified that numerous changes may be required and that there will be no compensation made to the contractor directly related to the number of changes. Each change will be evaluated for extension of contract time and increase or decrease in compensation based on its own merit.

D.2. DELAYS

D.2.1 Delays in construction include "Avoidable Delays", which are defined in Section D.2.1.1, and "Unavoidable Delays", which are defined in Section D.2.1.2. The effect of Avoidable Delays is described in Section D.2.2 and the effect of Unavoidable Delays is described in Section D.2.3.

D.2.1.1 Avoidable Delays include any delays other than unavoidable Delays, and include delays that otherwise would be considered Unavoidable Delays but that:

(a) Could have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its Subcontractors.

(b) Affect only a portion of the Work and do not necessarily prevent or delay the prosecution of other parts of the Work nor the completion of the whole Work within the Contract Time.

(c) Do not impact activities on the accepted critical path schedule.

(d) Are associated with the reasonable interference of other contractors employed by the Owner that do not necessarily prevent the completion of the whole Work within the Contract Time.

D.2.1.2 Unavoidable Delays include delays other than Avoidable Delays that are:

(a) Caused by any actions of the Owner, Owner's Authorized Representative, or any other employee or agent of the Owner, or by separate contractor employed by the Owner.

(b) Caused by any site conditions which differ materially from what was represented in the Contract Documents or from conditions that would normally be expected to exist and be inherent to the construction activities defined in the Contract Documents. The Contractor shall notify the Owner's Authorized Representative immediately of differing site conditions before the area has been disturbed. The Owner's Authorized Representative will investigate the area and make a determination as to whether or not the conditions differ materially from either the conditions stated in the Contract Documents or those which could reasonably be expected in execution of this particular Contract. If Contractor and the Owner's Authorized Representative agree that a differing site condition exists, any additional compensation or additional Contract Time will be determined based on the process set forth in Section D.1.5 for Change Order Work. If the Owner's Authorized Representative disagrees that a differing site condition exists and denies Contractor's request for additional compensation or Contract Time, Contractor may proceed to file a Claim under Section D.3, Claims Review Process Caused by Force Majeure acts,

events or occurrences that could not have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its Subcontractors.

(c) Caused by adverse weather conditions. Any adverse weather conditions must be substantiated by documentary evidence that weather conditions were abnormal for the specific time period claimed, could not have been anticipated by the Contractor, and adversely impacted the project in a manner that could not be avoided by rescheduling the Work or by implementing measures to protect against the weather so that the Work could proceed. A rain, windstorm, high water, or other natural phenomenon for the specific locality of the Work, which might reasonably have been anticipated from the previous 10- year historical records of the general locality of the Work, shall not be construed as abnormal. The parties agree that rainfall greater than the following levels cannot be reasonably anticipated:

(i) Daily rainfall equal to, or greater than,
0.50 inch during a month when the monthly rainfall exceeds the normal monthly average by twenty-five percent (25 %) or more.

(ii) daily rainfall equal to, or greater than,
0.75 inch at any time.

The Office of the Environmental Data Service of the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce nearest the project site shall be considered the official agency of record for weather information.

D.2.2 Except as otherwise provided in ORS 279C.315, Contractor shall not be entitled to additional compensation or additional Contract Time for Avoidable Delays.

D.2.3 In the event of Unavoidable Delays, based on principles of equitable adjustment, Contractor may be entitled to the following:

(a) Contractor may be entitled to additional compensation or additional Contract Time, or both, for Unavoidable Delays described in Section D.2.1.2 (a) and (b).

(b) Contractor may be entitled to additional Contract Time for Unavoidable Delays described in Section D.2.1.2(c) and (d).

In the event of any requests for additional compensation or additional Contract Time, or both, as applicable, arising under this Section D.2.3 for Unavoidable Delays, other than requests for additional compensation or additional Contract Time for differing site conditions for which a review process is established under Section D.2.1.2 (b), Contractor shall submit a written notification of the delay to the Owner's Authorized Representative within two (2) Days of the occurrence of the cause of the delay. This written notification shall state the cause of the potential delay, the project components impacted by the delay, and the anticipated additional Contract Time or the additional compensation, or both, as applicable, resulting from the delay. Within seven
(7) Days after the cause of the delay has been mitigated, or in no case more than thirty (30) Days
after the initial written notification, the Contractor shall submit to the Owner's Authorized Representative, a complete and detailed request for additional compensation or additional Contract Time, or both, as applicable, resulting from the delay.
If the Owner's Authorized Representative denies Contractor's request for additional compensation or adjustment of Contract Time, the Contractor may proceed to file a Claim under Section D.3, Claims Review Process.

If Contractor does not timely submit the notices required under this Section D.2., then unless otherwise prohibited by law, Contractor's Claim shall be barred.

D.3 CLAIMS REVIEW PROCESS

D.3.1 All Contractor Claims shall be referred to the Owner's Authorized Representative for review. Contractor's Claims, including Claims for additional compensation or additional Contract Time, shall be submitted in writing by Contractor to the Owner's Authorized Representative within five (5) Days after a denial of Contractor's initial request for an adjustment of Contract terms, payment of money, extension of Contract Time or other relief, provided that such initial request has been submitted in accordance with the requirements and within the time limits established in these General Conditions. Within twenty one (21) Days after the initial Claim, Contractor shall submit to the Owner's Authorized Representative, a complete and detailed description of the Claim (the "Detailed Notice") that includes all information required by Section D.3.2. Unless the Claim is made in accordance with these time requirements, it shall be waived.

D.3.2 The Detailed Notice of the Claim shall be submitted in writing by Contractor and shall include a detailed, factual statement of the basis of the Claim, pertinent dates, Contract provisions which support or allow the Claim, reference to or copies of any documents which support the Claim, the dollar value of the Claim, and the Contract Time extension requested for the Claim. If the Claim involves Work to be completed by Subcontractors, the Contractor will analyze and evaluate the merits of the Subcontractor claim prior to forwarding it and that analysis and evaluation to the Owner's Authorized Representative. The Owner's Authorized Representative and the Owner will not consider direct claims from Subcontractors, suppliers, manufacturers, or others not a party to this Contract. Contractor agrees that it will make no agreement, covenant, or assignment, nor will it commit any other act that will permit or assist any Subcontractor, supplier, manufacturer, or other to directly or indirectly make a claim against Owner.

D.3.3 The Owner's Authorized Representative will review all Claims and take one or more of the following preliminary actions within ten (10) Days of receipt of the Detailed Notice of a Claim: (1) request additional supporting information from the Contractor; (2) inform the Contractor and Owner in writing of the time required for adequate review and response; (3) reject the Claim in whole or in part and identify the reasons for rejection; (4) based on principles of equitable adjustment,

recommend approval of all or part of the Claim; or (5) propose an alternate resolution.

D.3.4 The Owner's Authorized Representative's decision

shall be final and binding on the Contractor unless appealed by written notice to the Owner within fifteen (15) Days of receipt of the decision. The Contractor must present written documentation supporting the Claim within fifteen (15) Days of the notice of appeal. After receiving the appeal documentation, the Owner shall review the materials and render a decision within thirty (30) Days after receiving the appeal documents.

D.3.5 The decision of the Owner shall be final and binding unless the Contractor delivers to the Owner its requests for mediation, which shall be a non-binding process, within fifteen (15) Days of the date of the Owner's decision. The mediation process will be considered to have commenced as of the date the Contractor delivers the request. Both parties acknowledge and agree that participation in mediation is a prerequisite to commencement of litigation of any disputes relating to the Contract. Both parties further agree to exercise their best efforts in good faith to resolve all disputes within sixty (60) Days of the commencement of the mediation through the mediation process set forth herein.

In the event that a lawsuit must be filed within this sixty (60) day period in order to preserve a cause of action, the parties agree that notwithstanding the filing, they shall proceed diligently with the mediation to its conclusion prior to actively prosecuting the lawsuit, and shall seek from the Court in which the lawsuit is pending such stays or extensions, including the filing of an answer, as may be necessary to facilitate the mediation process. Further, in the event settlements are reached on any issues through mediation, the parties agree to promptly submit the appropriate motions and orders documenting the settlement to the Court for its signature and filing.

D.3.6 The mediator shall be an individual mutually acceptable to both parties, but in the absence of agreement each party shall select a temporary mediator and the temporary mediators shall jointly select the permanent mediator. Each party shall pay its own costs for the time and effort involved in mediation. The cost of the mediator shall be split equally between the two parties. Both parties agree to exercise their best effort in good faith to resolve all disputes in mediation. Participation in mediation is a mandatory requirement of both the Owner and the Contractor. The schedule, time and place for mediation will be mutually acceptable, or, failing mutual agreement, shall be as established by the mediator. The parties agree to comply with Owner's administrative rules governing the confidentiality of mediation, if any, and shall execute all necessary documents to give effect to such confidentiality rules. In any event, the parties shall not subpoena the mediator or otherwise require the mediator to produce records, notes or work product, or to testify in any future proceedings as to information disclosed or representations made in the course of mediation, except to the extent disclosure is required by law.

D.3.7 Owner may at any time and at its discretion issue a construction change directive adding to, modifying or reducing the scope of Work. Contractor and Owner shall negotiate the need for any additional compensation or additional Contract Time related to the change, subject to the procedures for submitting requests or Claims for additional compensation or additional Contract Time established in this Section D. Unless otherwise directed by Owner's Authorized Representative, Contractor shall proceed with the Work while any request or Claim is pending, including but not limited to, a request or Claim for additional compensation or additional Contract Time resulting from Work under a Change Order or construction change directive. Regardless of the review period or the final decision of the Owner's Authorized Representative, the Contractor shall continue to diligently pursue the Work as identified in the Contract Documents. In no case is the Contractor justified or allowed to cease Work without a written stop work order from the Owner or Owner's Authorized Representative.

SECTION E
PAYMENTS

E.1 SCHEDULE OF VALUES

The Contractor shall submit, at least ten (10) Days prior to submission of its first application for progress payment, a schedule of values ("Schedule of Values") for the contracted Work. This schedule will provide a breakdown of values for the contracted Work and will be the basis for progress payments. The breakdown will demonstrate reasonable, identifiable, and measurable components of the Work. Unless objected to by the Owner's Authorized Representative, this schedule shall be used as the basis for reviewing Contractor's applications for payment. If objected to by Owner's Authorized Representative, Contractor shall revise the schedule of values and resubmit the same for approval of Owner's Authorized Representative.

E.2 APPLICATIONS FOR PAYMENT

E.2.1 Owner shall make progress payments on the Contract monthly as Work progresses. Payments shall be based upon estimates of Work completed and the Schedule of Values. All payments shall be approved by the Owner's Authorized Representative. A progress payment shall not be considered acceptance or approval of any Work or waiver of any defects therein. Owner shall pay to Contractor interest on the progress payment, not including retainage, due the Contractor. The interest shall commence thirty (30) Days after the receipt of invoice ("application for payment") from the Contractor or fifteen (15) Days after the payment is approved by the Owner's Authorized Representative, whichever is the earlier date. The rate of interest shall equal three times the discount rate on 90-day commercial paper in effect at the Federal Reserve Bank in the Federal Reserve district that includes Oregon on the date that is thirty (30) Days after receipt of the application for payment from the Contract or fifteen (15) Days after the payment is approved by the Owner, whichever is the earlier date, but the rate of interest shall not exceed thirty (30) percent. Notwithstanding the foregoing, in instances when an application for payment is filled out incorrectly, or when there is any defect or impropriety in any submitted application or when there is a good faith dispute, Owner shall so notify the

Contractor within fifteen (15) Days stating the reason or reasons the application for payment is defective or improper or the reasons for the dispute. A defective or improper application for payment, if corrected by the Contractor within seven (7) Days of being notified by the Owner, shall not cause a payment to be made later than specified in this section unless interest is also paid. Accrual of interest will be postponed when payment on the principal is delayed because of disagreement between the Owner and the Contractor.

Owner reserves the right, instead of requiring the Contractor to correct or resubmit a defective or improper application for payment, to reject the defective or improper portion of the application for payment and pay the remainder of the application for payment that is correct and proper.

Owner, upon written notice to the Contractor, may elect to make payments to the Contractor only by means of Electronic Funds Transfers (EFT) through Automated Clearing House (ACH) payments. If Owner makes this election, the Contractor will be required to arrange to receive EFT/ACH payments.

E.2.2 Contractor shall submit to the Owner's Authorized Representative, an application for each payment and, if required, receipts or other vouchers showing payments for materials and labor, including payments to Subcontractors. Contractor shall include, in its application for payment, a schedule of the percentages of the various parts of the Work completed, based on the Schedule of Values which shall aggregate to the payment application total, and shall include, on the face of each copy thereof, a certificate in substantially the following form:

"I, the undersigned, hereby certify that the above bill is true and correct, and the payment therefore, has not been received.

Signed:

-

"

E.2.3 Generally, applications for payment will be accepted only for materials that have been installed. Under special conditions, applications for payment for stored materials will be accepted at Owner's sole discretion. Such a payment, if made, will be subject to the following conditions:

(a) The request for stored material shall be submitted at least thirty (30) Days in advance of the application for payment on which it appears. Applications for payment shall be entertained for major equipment, components or expenditures only.

(b) The Contractor shall submit applications for payment showing the quantity and cost of the material stored.

(c) The material shall be stored in a bonded warehouse and Owner's Authorized Representative shall be granted the right to access the material for the purpose of removal or inspection at any time during the Contract Period.

(d) The Contractor shall name the Owner as co- insured on the insurance policy covering the full value of the property while in the care and custody of the Contractor until it is installed. A certificate noting this coverage shall be issued to the Owner.

(e) Payments shall be made for materials only. The submitted amount of the application for payment shall be reduced by the cost of

transportation and for the cost of an inspector to check the delivery at out of town storage sites. The cost of said inspection shall be borne solely by the Contractor.

(f) Within sixty (60) Days of the application for payment, the Contractor shall submit evidence of payment covering the material stored.

(g) Payment for stored materials shall in no way indicate acceptance of the materials or waive any rights under this Contract for the rejection of the Work or materials not in conformance with the Contract Documents.

(h) All required documentation must be submitted with the respective application for payment.

E.2.4 The Owner reserves the right to withhold all or part of a payment, or may nullify in whole or part any payment previously made, to such extent as may be necessary in the Owner's opinion to protect the Owner from loss because of:

(a) Work that is defective and not remedied, or that has been demonstrated or identified as failing to conform with the Contract Documents,

(b) third party claims filed or evidence reasonably indicating that such claims will likely be filed unless security acceptable to the Owner is provided by the Contractor;

(c) failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment (in which case Owner may issue checks made payable jointly to Owner and such unpaid persons under this provision, or directly to Subcontractors and suppliers at any level under Section C.3.2.1);

(d) reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Price;

(e) damage to the Owner or another contractor;

(f) reasonable evidence that the Work will not be completed within the Contract Time required by the Contract, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay;

(g) failure to carry out the Work in accordance with the Contract Documents; or

(h) assessment of liquidated damages, when withholding is made for offset purposes.

E.2.5 Subject to the provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

(a) Take that portion of the Contract Price properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the total Contract Price allocated to that portion of the Work in the Schedule of Values, less retainage as provided in Section E.5. Pending final determination of cost to the Owner of changes in the Work, no amounts for changes in the Work can be included in application for payment until the Contract Price has been adjusted by Change Order;

(b) Add that portion of the Contract Price properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner pursuant to Section E.2.3, suitably stored off the site at a location agreed upon in writing), less retainage as provided in Section E.5;

(c) Subtract the aggregate of previous payments made by the Owner; and

(d) Subtract any amounts for which the Owner's Authorized Representative has withheld or nullified payment as provided in the Contract Documents.

E.2.6 Contractor's applications for payment may not include requests for payment for portions of the Work for which the Contractor does not intend to pay to a Subcontractor or material supplier.

E.2.7 The Contractor warrants to Owner that title to all Work covered by an application for payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an application for payment all Work for which payments are received from the Owner shall be free and clear of liens, claims, security interests or encumbrances in favor of the Contractor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work.

E.2.8 If Contractor disputes any determination by Owner's Authorized Representative with regard to any application for payment, Contractor nevertheless shall continue to prosecute expeditiously the Work. No payment made hereunder shall be or be construed to be final acceptance or approval of that portion of the Work to which such partial payment relates or shall relieve Contractor of any of its obligations hereunder.

E.3 PAYROLL CERTIFICATION REQUIREMENT

Payroll certification is required before payments are made on the Contract. Refer to Section C.2 for this information.

E.4 DUAL PAYMENT SOURCES

Contractor shall not be compensated for Work performed under this Contract from any state agency other than the agency that is a party to this Contract.

E.5 RETAINAGE

E.5.1 Retainage shall be withheld and released in accordance with ORS 279C.550 to 279C.580:

E.5.1.1 Owner may reserve as retainage from any progress payment an amount not to exceed five percent of the payment. As Work progresses, Owner may reduce the amount of the retainage and may eliminate retainage on any remaining monthly Contract payments after 50 percent of the Work under the Contract is completed if, in the Owner's opinion, such Work is progressing satisfactorily. Elimination or reduction of retainage shall be allowed only upon written application by the Contractor, which application

shall include written approval of Contractor's surety; except that when the Work is 97-1/2 percent completed the Owner may, at its discretion and without application by the Contractor, reduce the retained amount to 100 percent of the value of the Work remaining to be done. Upon receipt of written application by the Contractor, Owner shall respond in writing within a reasonable time.

E.5.1.2 In accordance with the provisions of ORS 279C.560 and any applicable administrative rules, unless the Owner finds in writing that accepting a bond, security or other instrument described in options (a) or (c) below poses an extraordinary risk that is not typically associated with the bond, security or instrument, the Owner will approve the Contractor's written request:

(a) to be paid amounts which would otherwise have been retained from progress payments where Contractor has deposited acceptable bonds, securities or other instruments of equal value with Owner or in a custodial account or other mutually-agreed account satisfactory to Owner, with an approved bank or trust company to be held in lieu of the cash retainage for the benefit of Owner. Interest or earnings on the bonds, securities or other instruments shall accrue to the Contractor. The Contractor shall execute and provide such documentation and instructions respecting the bonds, securities and other instruments as the Owner may require to protect its interests. To be permissible the bonds, securities and other instruments must be of a character approved by the Director of the Oregon Department of Administrative Services,

including but not limited to:

(i) Bills, certificates, notes or bonds of the United States.
(ii) Other obligations of the United States or agencies of the United States.
(iii) Obligations of a corporation wholly owned by the federal government.
(iv) Indebtedness of the Federal National Mortgage Association.
(v) General obligation bonds of the State of Oregon or a political subdivision of the State of Oregon.
(vi) Irrevocable letters of credit issued by an insured institution, as defined in ORS 706.008.

(b) that retainage be deposited in an interest bearing account, established through the State Treasurer for state agencies, in a bank, savings bank, trust company or savings association for the benefit of Owner, with interest from such account accruing to the Contractor; or

(c) that the Contractor be allowed, with the approval of the Owner, to deposit a surety bond for the benefit of Owner, in a form acceptable to Owner, in lieu of all or a portion of funds retained, or to be retained. Such bond and any proceeds therefrom shall be made subject to all claims and liens in the manner and priority as set forth for retainage under ORS 279C.550 to ORS 279C.625.

Where the Owner has accepted the Contractor's election of any of the options above, Owner may recover from Contractor any additional costs incurred through such election by reducing Contractor's final payment. Where the Owner has agreed to Contractor's request to deposit a surety bond under option (c), Contractor shall accept like bonds from Subcontractors and suppliers on the project from which Contractor has required retainage.

E.5.1.3 The retainage held by Owner shall be included in and paid to the Contractor as part of the final payment of the Contract Price. The Owner shall pay to Contractor interest at the rate of one and one-half percent per month on the final payment due contractor, interest to commence thirty (30) Days after the Work under the Contract has been completed and accepted and to run until the date Contractor shall notify Owner in writing when the Contractor considers the Work complete and Owner shall, within fifteen (15) Days after receiving the written notice, either accept the Work or notify the Contractor of Work yet to be performed on the Contract. If Owner does not within the time allowed notify the contractor of Work yet to be performed to fulfill contractual obligations, the interest provided by this subsection shall commence to run thirty (30 Days after the end of the 15-Day period.

E.5.1.4 In accordance with the provisions of ORS 279C.560, if the Owner accepts bonds, securities or other instruments deposited as provided in paragraphs (a) and (c) of subsection E.5.1.2., the Owner shall reduce the moneys held as retainage in an amount equal to the value of the bonds, securities and other instruments and pay the amount of the reduction to the Contractor in accordance with ORS 279C.570.

E.5.1.5 Contractor agrees that if Contractor elects to reserve a retainage from any progress payment due to any Subcontractor or supplier, such retainage shall not exceed five percent of the payment, and such retainage withheld from Subcontractors and suppliers shall be subject to the same terms and conditions stated in Subsection E.5 as apply to Owner's retainage from any progress payment due to Contractor. Provided, however, if in accordance with the provisions of ORS 279C.560 the Contractor has deposited bonds, securities or other instruments or has elected to have the Owner deposit accumulated retainage in an interest-bearing account, the Contractor shall comply with the provisions of ORS 701.435 respecting the deposit of bonds, securities or other instruments by Subcontractors and the sharing of interest earnings with Subcontractors and suppliers.

E.5.2 As provided subsections C.2.2 and C.2.3, additional retainage in the amount of 25% of amounts earned shall be withheld and released in accordance with ORS 279C.845(7) when the Contractor fails to file certified statements as required by section C.2.1.

E.6. FINAL PAYMENT

E.6.1 Upon completion of all the Work under this Contract, the Contractor shall notify the Owner's Authorized Representative, in writing, that Contractor has completed Contractor's part of the Contract and shall request final payment. Upon receipt of such notice the Owner's Authorized Representative will submit to the Owner a recommendation as to acceptance of the completed Work and the final estimate of the amount due the Contractor. If the Work is not acceptable, Owner will notify Contractor within fifteen (15) Days of Contractor's request for final payment. Upon approval of this final estimate by the Owner and compliance by the Contractor with provisions in Section K. 3 AFFIDAVIT/RELEASE OF LIENS AND CLAIMS and other provisions as may be applicable, the Owner shall pay to the Contractor all monies due under the provisions of these Contract Documents.

E.6.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Owner's Authorized Representative (1) a notarized affidavit/release of liens and claims in a form satisfactory to Owner that states that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner_ have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least thirty (30) Days prior written notice has been given to the Owner, (3) a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment and (5), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond

satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.

E.6.3 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final application for payment

SECTION F
JOB SITE CONDITIONS

F.1 USE OF PREMISES

Contractor shall confine equipment, storage of materials and operation of Work to the limits indicated by Contract Documents, law, ordinances, permits or directions of the Owner's Authorized Representative. Contractor shall follow the Owner's Authorized Representative's instructions regarding use of premises, if any.

F.2 PROTECTION OF WORKERS, PROPERTY, AND THE PUBLIC

F.2.1 Contractor shall maintain continuous and adequate protection of all of the Work from damage, and shall protect the Owner's Authorized Representative, workers and property from injury or loss arising in connection with this Contract. Contractor shall remedy acceptably to the Owner, any damage, injury, or loss, except such as may be directly due to errors in the Contract Documents or caused by authorized representatives or personnel of the Owner. Contractor shall adequately protect adjacent property as provided by law and the Contract Documents.

F.2.2 Contractor shall take all necessary precautions for the safety of all personnel on the job site, and shall comply with the Contract Documents and all applicable provisions of federal, state and municipal safety laws and building codes to prevent accidents or injury to persons on, about or adjacent to the premises where the Work is being performed. Contractor shall erect and properly maintain at all times, as required by the conditions and progress of the Work, all necessary safeguards for protection of workers and the public against any hazards created by construction. Contractor shall designate a responsible employee or associate on the Work site, whose duty shall be the prevention of accidents. The name and position of the person designated shall be reported to the Owner's Authorized Representative. The Owner's Authorized Representative has no responsibility for Work site safety. Work site safety is the responsibility of the Contractor.

F.2.3 Contractor shall not enter upon private property without first obtaining permission from the property owner or its duly authorized representative. Contractor shall be responsible for the preservation of all public and private property along and adjacent to the Work contemplated under the Contract and shall use every precaution necessary to prevent damage thereto. In the event the Contractor damages any property, the Contractor shall at once notify the property owner and make, or arrange to make, full restitution. Contractor shall immediately and in writing, report to the Owner's Authorized Representative, all pertinent facts relating to such property damage and the ultimate disposition of the claim for damage.

F.2.4 Contractor is responsible for protection of adjacent work areas including impacts brought about by activities, equipment, labor, utilities, and materials on the site.

F.2.5 Contractor shall at all times direct its activities in such a manner as to minimize adverse effects on the environment. Handling of all materials will be conducted so no release will occur that may pollute or become hazardous.

F.2.6 In an emergency affecting the safety of life or of the Work or of adjoining property, the Contractor, without special instruction or authorization from the Owner's Authorized Representative, shall act reasonably to prevent threatened loss or injury, and shall so act, without appeal, if instructed by the Owner's Authorized Representative. Any compensation claimed by the Contractor on account of emergency work shall be determined in accordance with Section D.

F.3 CUTTING AND PATCHING

F.3.1 Contractor shall be responsible for coordinating all cutting, fitting, or patching of the Work to make its several parts come together properly and fit to receive or be received by work of other contractors or Subcontractors shown upon, or reasonably implied by, the Contract Documents.

F.3.2 Contractor shall be responsible for restoring all cut, fitted, or patched surfaces to an original condition; provided, however, that if a different condition is specified in the Contract Documents, then Contractor shall be responsible for restoring such surfaces to the condition specified in the Contract Documents.

F.4 CLEANING UP

From time to time as may be ordered by the Owner the Contractor shall, at its own expense, clean up and remove all refuse and unused materials of any kind resulting from the Work. If Contractor fails to do so within twenty-four hours after notification by the Owner the work may be done by others and the cost charged to the Contractor and deducted from payment due the Contractor.

F.5 ENVIRONMENTAL CONTAMINATION

F.5.1 Contractor will be held responsible for and shall indemnify, defend (with counsel of Owner's choice) and hold harmless Owner from and against any costs, expenses, damages, claims, and causes of action, (including attorney fees), or any of

them, resulting from all spills, releases, discharges, leaks and disposal of environmental pollution, including storage, transportation, and handling during the performance of the Contract which occur as a result of, or are contributed by, the negligence or actions of Contractor or its personnel, agents, or Subcontractors or any failure to perform in accordance with the Contract Documents (except to the extent otherwise void under ORS 30.140). Nothing in this section F.5.1 shall limit Contractor's responsibility for obtaining insurance coverages required under Section G.3 of these General Conditions, and Contractor shall take no action that would void or impair such coverages

F.5.1.1 Contractor agrees to promptly dispose of such spills, releases, discharge or leaks to the satisfaction of Owner and proper regulatory agencies in a manner that complies with applicable federal, state, and local laws and regulations. Cleanup shall be at no cost to the Owner and be performed by properly qualified personnel.

F.5.1.2 Contractor shall obtain the Owner's written consent prior to bringing onto the Work site any (i) environmental pollutants or (ii) hazardous substances or materials, as the same or reasonably similar terms are used in any applicable federal, state, or local statutes, rules or ordinances. Notwithstanding such written consent from the Owner, the Contractor, at all times, shall:

(a) properly handle, use and dispose of all environmental pollutants and hazardous substances or materials brought onto the Work site, in accordance with all applicable federal, state, or local statutes, rules, or ordinances;

(b) be responsible for any and all spills, releases, discharges, or leaks of (or from) environmental pollutants or hazardous substances or materials which Contractor has brought onto the Work site; and

(c) promptly clean up, without cost to the Owner, such spills, releases, discharges, or leaks to the Owner's satisfaction and in compliance with applicable federal, state, or local statutes, rules or ordinances.

F.5.2 Contractor shall report all reportable quantity releases to applicable federal, state, and local regulatory and emergency response agencies. Reportable quantities are found in 40 CFR Part 302, Table 302.4 for hazardous substances and in OAR 340-142-0050 for all products addressed therein. Upon discovery, regardless of quantity, Contractor must telephonically report all releases to the Owner. A written follow-up report shall be submitted to Owner within 48 hours of the telephonic report. Such written report shall contain, as a minimum:

(a) Description of items released (identity, quantity, manifest no., and all other documentation required by law.)

(b) Whether amount of items released is EPA/DEQ reportable, and, if so, when it was reported.

(c) Exact time and location of release, including a description of the area involved.

(d) Containment procedures initiated.

(e) Summary of communications about the release Contractor has had with members of the press or State officials other than Owner.

(f) Description of cleanup procedures employed or to be employed at the site, including disposal location of spill residue.

(g) Personnel injuries, if any, resulting from, or aggravated by, the release.

F.6 ENVIRONMENTAL CLEAN-UP

F.6.1 Unless disposition of environmental pollution is specifically a part of this Contract, or was caused by the Contractor (reference F.5 Environmental Contamination), Contractor shall immediately notify Owner of any hazardous substance(s) which Contractor discovers or encounters during performance of the Work required by this Contract. "Hazardous substance(s)" means any hazardous, toxic and radioactive materials and those substances defined as “hazardous substances,” “hazardous materials,” “hazardous wastes,” “toxic substances,” or other similar designations in any federal, state, or local law, regulation, or ordinance, including without limitation asbestos, polychlorinated biphenyl (PCB), or petroleum, and any substances, materials or wastes regulated in 40 CFR, Part 261 and defined as hazardous in 40 CFR S 261.3. In addition to notifying Owner of any hazardous substance(s) discovered or encountered, Contractor shall immediately cease working in any particular area of the project where a hazardous substance(s) has been discovered or encountered if continued work in such area would present a risk or danger to the health or wellbeing of Contractor's or any Subcontractor's work force.

F.6.2 Upon being notified by Contractor of the presence of hazardous substance(s) on the project site, Owner shall arrange for the proper disposition of such hazardous substance(s).

F.7 FORCE MAJEURE

A party to this Contract shall not be held responsible for delay or default due to Force Majeure acts, events or occurrences unless they could have been avoided by the exercise of reasonable care, prudence, foresight, and diligence by that party. The Owner may terminate this Contract upon written notice after determining that delay or default caused by Force Majeure acts, events or occurrences will reasonably prevent successful performance of the Contract.

SECTION G
INDEMNITY, BONDING, AND INSURANCE

G.1 RESPONSIBILITY FOR DAMAGES / INDEMNITY

G.1.1 Contractor shall be responsible for all damage to property, injury to persons, and loss, expense, inconvenience, and delay that may be caused by, or result from, the carrying out of the Work to be done under this Contract, or from any act, omission or neglect of the Contractor, its Subcontractors, personnel, or agents.

G.1.2 To the fullest extent permitted by law, Contractor shall indemnify, defend (with counsel approved by Owner) and hold harmless the Owner, Owner's Authorized Representative, Architect/Engineer, Architect/Engineer's consultants, and their respective officers, directors, agents, employees, partners, members, stockholders and affiliated companies (collectively "Indemnitees") from and against all liabilities, damages, losses, claims, expenses (including reasonable attorney fees), demands and actions of any nature whatsoever which arise out of, result from or are related to, (a) any damage, injury, loss, expense, inconvenience or delay described in this Section G.1.2, (b) any accident or occurrence which happens or is alleged to have happened in or about the project site or any place where the Work is being performed, or in the vicinity of either, at any time prior to the time the Work is fully completed in all respects,
(c) any failure of the Contractor to observe or perform any duty or obligation under the Contract Documents which is to be observed or performed by the Contractor, or any breach of any agreement, representation or warranty of the Contractor contained in the Contract Documents or in any subcontract,
(d) the negligent acts or omissions of the Contractor, a Subcontractor or anyone directly or indirectly employed by them or any one of them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder (except to the extent otherwise void under ORS 30.140), and (e) any lien filed upon the project or bond claim in connection with the Work. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section G.1.2.

G.1.3 In claims against any person or entity indemnified under this Section G.1.2 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section G.1.2 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

G.2 PERFORMANCE AND PAYMENT SECURITY; PUBLIC WORKS BOND

G.2.1 When the Contract Price is $100,000 or more (or $50,000 or more in the case of Contracts for highways, bridges and other transportation projects) the Contractor shall furnish and maintain, a performance bond in a sum equal to the Contract Price, and a separate payment bond also in a sum equal to the Contract Price. The bonds may be required if the Contract Price is less than the above thresholds, if required by the Contract Documents. This obligation must be in effect at all times during the Contract Period and shall remain in full force and effect until the expiration of any statutes of limitation or repose applicable to claims against contractor arising out of this Contract.

G.2.2 Bond forms furnished by the Owner and notarized by awarded Contractor's surety company authorized to do business in Oregon are the only acceptable forms of performance and payment security, unless otherwise specified in the Contract Documents.

G.2.3 Before execution of the Contract Contractor shall file with the Construction Contractors Board, and maintain in full force and effect, the separate public works bond required by Oregon Laws 2005, Chapter 360, and OAR 839-025-0015, unless otherwise exempt under those provisions. The Contractor shall also include in every subcontract a provision requiring the Subcontractor to have a public works bond filed with the Construction Contractors Board before starting Work, unless otherwise exempt, and shall verify that the Subcontractor has filed a public works bond before permitting the Subcontractor to start Work.

G.3 INSURANCE

G.3.1 Primary Coverage: Insurance carried by Contractor under this Contract shall be the primary coverage and non-contributory with any other insurance and self- insurance, and the Owner's insurance is excess and solely for damages or losses for which the Owner is responsible. The coverages indicated are minimums unless otherwise specified in the Contract Documents.

G.3.2 Workers' Compensation: All employers, including Contractor, that employ subject workers who work under this contract in the State of Oregon shall comply with ORS 656.017 and provide the required Workers' Compensation coverage, unless such employers are exempt under ORS 656.126. This shall include Employer's Liability Insurance with coverage limits of not less than $100,000 for each accident. Contractors who perform the Work without the assistance or labor of any employee need not obtain such coverage if the Contractor certifies so in writing. Contractor shall ensure that each of its Subcontractors complies with these requirements. The Contractor shall require proof of such Workers' Compensation by receiving and keeping on file a certificate of insurance from each Subcontractor or anyone else directly employed by either the Contractor or its Subcontractors.

G.3.3 Builder's Risk Insurance:

G.3.3.1 Builder's Risk: During the term of this Contract, for new construction the Contractor shall obtain and keep in effect Builder's Risk insurance on an all risk form, including earthquake and flood, for an amount equal to the full amount of the Contract. Any deductible shall not exceed $50,000 for each loss, except the earthquake and flood deductible shall not exceed 2 percent of each loss or $50,000, whichever is more. The policy will include as loss payees the Owner, the Contractor and its Subcontractors as their interests may appear.

G.3.3.2 Builder's Risk Installation Floater: For other than new construction the Contractor shall obtain and keep in effect during the term of this Contract, a Builder's Risk Installation Floater for coverage of the Contractor's labor, materials and equipment to be used for completion of the Work performed under this Contract. The minimum amount of coverage to be carried shall be equal to the full amount of the Contract. This insurance shall include as loss payees the State of Oregon, the Owner, the

Contractor and its Subcontractors as their interests may appear.

G.3.3.3 Such insurance shall be maintained until Owner has occupied the facility.

G.3.3.4 A loss insured under the Builder's Risk insurance shall be adjusted by the Owner and made payable to the Owner for the insureds, as their interests may appear. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their Sub-subcontractors in similar manner. The Owner shall have power to adjust and settle a loss with insurers.

G.3.4 Liability Insurance:

G.3.4.1 Commercial General Liability: Contractor shall obtain, at Contractor's expense, and keep in effect during the term of this Contract, Commercial General Liability Insurance covering bodily injury and property damage in a form and with coverages that are satisfactory to owner. This insurance shall include personal injury liability, products and completed operations, and contractual liability coverage for the indemnity provided under this Contract (to the extent contractual liability coverage for the indemnity is available in the marketplace), and shall be issued on an occurrence basis. Contractor shall provide proof of insurance of not less than the amounts listed in the following schedules:

Per Occurrence Limit for any single claimant:
From commencement of the Contract term to June 30, 2011: $1,600,000
July 1, 2011 to June 30, 2012: $1,700,000
July 1, 2012 to June 30, 2013: $1,800,000
July 1, 2013 to June 30, 2014: $1,900,000
July 1, 2014 to June 30, 2015: $2,000,000
July 1, 2015 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Per Occurrence Limit for multiple claimants:
From commencement of the Contract term to June 30, 2011: $3,200,000
July 1, 2011 to June 30, 2012: $3,400,000
July 1, 2012 to June 30, 2013: $3,600,000
July 1, 2013 to June 30, 2014: $3,800,000
July 1, 2014 to June 30, 2015: $4,000,000
July 1, 2015 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Property Damage:

Per Occurrence Limit for any single claimant: From commencement of the Contract term to January 1, 2011: $100,100.
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

Per Occurrence Limit for multiple claimants:
From commencement of the Contract term to January 1, 2011 : $500,600.
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

G.3.4.2 Automobile Liability: Contractor shall obtain, at Contractor's expense, and keep in effect during the term of this Contract, Automobile Liability Insurance covering owned, non-owned and/or hired vehicles, as applicable. The coverage may be written in combination with the Commercial General Liability Insurance. Contractor shall provide proof of insurance of not less than the amounts listed in the following schedules:

Bodily Injury/Death:

Per Occurrence Limit for any single claimant:
From commencement of the Contract term June 30, 2011: $1,600,000
July 1, 2011 to June 30, 2012: $1,700,000
July 1, 2012 to June 30, 2013: $1,800,000
July 1, 2013 to June 30, 2014: $1,900,000
July 1, 2014 to June 30, 2015: $2,000,000
July 1, 2015 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Per Occurance Limit for multiple claimants:
From commencement of the Contract term to June 30, 2011: $3,200,000
July 1, 2011 to June 30, 2012: $3,400,000

July 1, 2012 to June 30, 2013: $3,600,000
July 1, 2013 to June 30, 2014: $3,800,000
July 1, 2014 to June 30, 2015: $4,000,000
July 1, 2015 and thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 3 (Senate Bill 311).

Property Damage:

Per Occurrence Limit for any single claimant: From commencement of the Contract term to January 1, 2011: $100,100
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

Per Occurrence Limit for multiple claimants:
From commencement of the Contract term to January 1, 2011: $500,600
From January 1, 2010, and every year thereafter the adjusted limitation as determined by the State Court Administrator pursuant to Oregon Laws 2009, chapter 67, section 5 (Senate Bill 311).

G.3.4.3 "Tail" Coverage: If any of the required liability insurance is arranged on a "claims made" basis, "tail" coverage will be required at the completion of this Contract for a duration of 24 months or the maximum time period available in the marketplace if less than 24 months. Contractor will be responsible for furnishing certification of "tail" coverage as described or continuous "claims made" liability coverage for 24 months following Final Completion. Continuous "claims made" coverage will be acceptable in lieu of "tail" coverage, provided its retroactive date is on or before the effective date of this Contract. This will be a condition of the final acceptance of Work or services and related warranty (if any).

G.3.5 Excess/Umbrella Insurance: Contractor shall obtain, at contractors expense, excess/umbrella liability coverage in the amount of $5,000,000 per occurrence and $5,000,000 aggregate. Coverage shall be carried for the duration of the 10 year statute of repose in the State of Oregon.

G.3.6 Additional Insured: The liability insurance coverage, except Professional Liability if included, required for performance of this Contract shall include Owner, its departments, divisions, officers, and employees, as Additional Insureds but only with respect to the Contractor's activities to be performed under this Contract.

If Contractor cannot obtain an insurer to name the State of Oregon, its departments, divisions, officers and employees as Additional Insureds, Contractor shall obtain at Contractor's expense, and keep in effect during the term of this Contract, Owners and Contractors Protective Liability Insurance, naming the State of Oregon, its departments, divisions, officers and employees as Named Insureds with not less than a $1,500,000.00 limit per occurrence. This policy must be kept in effect for 12 months following Final Completion. As evidence of coverage, Contractor shall furnish the actual policy to Owner prior to execution of the Contract.

G.3.7 Certificate(s) of Insurance: As evidence of the insurance coverage required by this Contract, the Contractor shall furnish certificate(s) of insurance to the Owner prior to execution of the Contract. The certificate(s) will specify all of the parties who are Additional Insureds or Loss Payees. Insurance coverage required under this Contract shall be obtained from insurance companies or entities acceptable to the Owner that are allowed to provide such insurance under Oregon law. Eligible insurers include admitted insurers that have been issued a certificate of authority from the Oregon Department of Consumer and Business Services authorizing them to do an insurance business in the state of Oregon, and certain non-admitted surplus lines insurers that satisfy the requirements of applicable Oregon law and are approved by the Owner. The Contractor shall be financially responsible for all deductibles, self-insured retentions and/or self- insurance included hereunder. Any deductible, self- insured retention and/or self-insurance in excess of $50,000 shall be approved by the Owner in writing prior execution of the Contract and is subject to Owner's approval. The Contractor shall immediately notify the Owner's Authorized Representative in writing of any change in insurance coverage.

G3.8 Waiver of Subrogation. All of Contractor's and subcontractors' liability insurance policies, with the exception of workers' compensation, shall contain a waiver of subrogation against Owner.
G.3.8 Additional Requirements for General Liability Policy. The policy shall be endorsed to be primary and non-contributory with any insurance maintained by Owner, its directors, officers, employees and agents. Products and Completed Operations Insurance shall be carried for the duration applicable for the10 year statute of repose in the State of Oregon. There can be no exclusions for subsidence, collapse, explosion, underground property damage, mold, fungus, water intrusion or water damage. There can be no cross-suite exclusion, Montrose language or exclusion limiting coverage to damages which first begin to occur within the policy period. The limits of coverage shall not be eroded or wasted by defense costs.

SECTION H
SCHEDULE OF WORK

H.1 CONTRACT PERIOD

H.1.1 **Time is of the essence on this Contract**. The Contractor shall at all times carry on the Work diligently, without delay and punctually fulfill all requirements herein. Contractor shall commence Work on the site within fifteen (15) Days of Notice to

Proceed, unless directed otherwise.

H.1.2 Unless specifically extended by Change Order, all Work shall be complete by the date contained in the Contract Documents. The Owner shall have the right to accelerate the completion date of the Work, which may require the use of overtime. Such accelerated Work schedule shall be an acceleration in performance of Work under Section D.1.2 (f) and shall be subject to the Change Order process of Section D.1.

H.1.3 The Owner shall not waive any rights under the Contract by permitting the Contractor to continue or complete in whole or in part the Work after the date described in Section H.1.2 above.

H.2 SCHEDULE

H.2.1 Contractor shall provide, by or before the pre- construction conference, a detailed schedule for review and acceptance by the Owner. The submitted schedule must illustrate Work by significant project components, significant labor trades, long lead items, broken down by building and/or floor where applicable. Each schedule item shall account for no greater than 5 % of the monetary value of the project or 5 % of the available Contract Time. Schedules with activities of less than one day or valued at less than 1% of the Contract will be considered too detailed and will not be accepted. Schedules lacking adequate detail, or unreasonably detailed, will be rejected. Included within the schedule are the following: Notice to Proceed, Substantial Completion, and Final Completion. Schedules will be updated monthly and submitted with the monthly payment application. Acceptance of the Schedule by the Owner does not constitute agreement by the Owner, as to the Contractor's sequencing, means, methods, or allocated Contract Time. Any positive difference between the Contractor's scheduled completion and the Contract completion date is float owned by the Owner. Owner reserves the right to negotiate the float if it is deemed to be in Owner's best interest to do so. In no case shall the Contractor make a request for additional compensation for delays if the Work is completed within the Contract Time but after Contractor's scheduled completion.

H.3 PARTIAL OCCUPANCY OR USE

H.3.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage, provided such occupancy or use is consented to by public authorities having jurisdiction over the Work. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have reasonably accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, insurance or self-insurance, maintenance, heat, utilities, and damage to the Work, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents with respect to such portion of the Work. Approval by the Contractor to partial occupancy or use shall not be unreasonably withheld. Immediately prior to such partial occupancy or use, the Owner and Contractor shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work. Partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

SECTION I
CORRECTION OF WORK

I.1 CORRECTION OF WORK BEFORE FINAL PAYMENT

I.1.1 The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects, and that the Work will conform to the requirements of the Contract Documents. Work failing to conform to these requirements shall be deemed defective. Contractor shall promptly remove from the premises and replace all defective materials and equipment as determined by the Owner's Authorized Representative, whether incorporated in the Work or not. Removal and replacement shall be without loss or expense to the Owner, and Contractor shall bear the cost of repairing all Work destroyed or damaged by such removal or replacement. Contractor shall be allowed a period of no longer than thirty (30)Days after Substantial Completion for completion of defective (punch list) work, unless otherwise agreed. At the end of that period, or earlier if requested by the Contractor, Owner shall arrange for inspection of the Work by the Architect/Engineer. Should the Work not be complete, and all corrections made, the costs for all subsequent re-inspections shall be borne by the Contractor. If Contractor fails to complete the punch list work within the above time period, Owner may perform such work and Contractor shall reimburse Owner all costs of the same within ten (10) days after demand without affecting Contractor's obligations.

I.2 WARRANTY WORK

I.2.1 Neither the final certificate of payment nor any provision of the Contract Documents shall relieve the Contractor from responsibility for defective Work and, unless a longer period is specified, Contractor shall correct all defects that appear in the Work within a period of one year from the date of issuance of the written notice of Substantial Completion by the Owner except for latent defects which will be remedied by the Contractor at any time they become apparent.

The Owner shall give Contractor notice of defects with reasonable promptness. Contractor shall perform such warranty work within a reasonable time after Owner's demand. If Contractor fails to complete the warranty work within such period as Owner determines reasonable, or at any time in the event of warranty work consisting of emergency repairs, Owner may perform such work and Contractor shall reimburse Owner all costs of the same within ten (10) Days after demand without affecting Contractors obligations.

I.2.2 This provision does not negate guarantees or warranties for periods longer than one year including without limitation such guarantees or warranties required by other sections of the Contract Documents for specific installations, materials, processes, equipment or fixtures.

I.2.3 In addition to Contractor's warranty, manufacturer's warranties shall pass to the Owner and shall not take effect until affected Work has been accepted in writing by the Owner's Authorized Representative.

I.2.4 The one-year period for correction of Work shall be extended with respect to portions of Work performed after Substantial Completion by the period of time between Substantial Completion and the actual performance of the Work, and shall be extended by corrective Work performed by the Contractor pursuant to this Section, as to the Work corrected. The Contractor shall remove from the site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

I.2.5 Nothing contained in this Section I.2 shall be construed to establish a period of limitation with respect to other obligations which the Contractor might have under the Contract Documents. Establishment of the period for correction of Work as described in this Section I.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

I.2.6 If the Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Price will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

SECTION J
SUSPENSION AND/OR TERMINATION OF THE WORK

J.1 OWNER'S RIGHT TO SUSPEND THE WORK

J.1.1 The Owner and/or the Owner's Authorized Representative has the authority to suspend portions or all of the Work due to the following causes:

(a) Failure of the Contractor to correct unsafe conditions;
(b) Failure of the Contractor to carry out any provision of the Contract;
(c) Failure of the Contractor to carry out orders;
(d) Conditions, in the opinion of the Owner's Authorized Representative, which are unsuitable for performing the Work;
(e) Time required to investigate differing site conditions;
(f) Any reason considered to be in the public interest.

J.1.2 The Owner shall notify Contractor and the Contractor's Surety in writing of the effective date and time of the suspension and Owner shall notify Contractor and Contractor's surety in writing to resume Work.

J.2 CONTRACTOR'SRESPONSIBILITIES

J.2.1 During the period of the suspension, Contractor is responsible to continue maintenance at the project just as if the Work were in progress. This includes, but is not limited to, protection of completed Work, maintenance of access, protection of stored materials, temporary facilities, and clean-up.

J.2.2 When the Work is recommenced after the suspension, the Contractor shall replace or renew any Work damaged during the suspension, remove any materials or facilities used as part of temporary maintenance, and complete the project in every respect as though its prosecution had been continuous and without suspension.

J.3 COMPENSATION FOR SUSPENSION

J.3.1 Depending on the reason for suspension of the Work, the Contractor or the Owner may be due compensation by the other party. If the suspension was required due to acts or omissions of Contractor, the Owner may assess the Contractor actual costs of the suspension in terms of administration, remedial work by the Owner's forces or another contractor to correct the problem associated with the suspension, rent of temporary facilities, and other actual costs related to the suspension. If the suspension was caused by acts or omissions of the Owner, the Contractor shall be due compensation which shall be defined using Section D, Changes in Work. If the suspension was required through no fault of the Contractor or the Owner, neither party owes the other for the impact.

J.4 OWNER'S RIGHT TO TERMINATE CONTRACT

J.4.1 The Owner may, without prejudice to any other right or remedy, and after giving Contractor seven (7) Days' written notice and an opportunity to cure, terminate the Contract in whole or in part under the following conditions:

(a) If Contractor should voluntarily or involuntarily, seek protection under the United States Bankruptcy Code and Contractor as debtor-in- possession or the Trustee for the estate fails to

assume the Contract within a reasonable time;

(b) If Contractor should make a general assignment for the benefit of Contractor's creditors;

(c) If a receiver should be appointed on account of Contractor's insolvency;

(d) If Contractor should repeatedly refuse or fail to supply an adequate number of skilled workers or proper materials to carry on the Work as required by the Contract Documents, or otherwise fail to perform the Work in a timely manner;

(e) If Contractor should repeatedly fail to make prompt payment to Subcontractors or for material or labor, or should disregard laws, ordinances or the instructions of the Owner or its Authorized Representative; or

(f) If Contractor is otherwise in material breach of any part of the Contract.

J.4.2 At any time that any of the above occurs, Owner may exercise all rights and remedies available to Owner at law or in equity, and in addition, Owner may take possession of the premises and of all materials and appliances and finish the Work by whatever method it may deem expedient. In such case, the Contractor shall not be entitled to receive further payment until the Work is completed. If the Owner's cost of finishing the Work exceeds the unpaid balance of the Contract Price, Contractor shall pay the difference to the Owner.

J.5 TERMINATION FOR CONVENIENCE

J.5.1 Owner may terminate the Contract in whole or in part whenever Owner determines that termination of the Contract is in the best interest of the public.

J.5.2 The Owner will provide the Contractor with seven (7) Days' prior written notice of a termination for public convenience. After such notice, the Contractor shall provide the Owner with immediate and peaceful possession of the premises and materials located on and off the premises for which the Contractor received progress payment under Section E. Compensation for Work terminated by the Owner under this provision will be according to Section E. In no circumstance shall Contractor be entitled to lost profits for Work not performed due to termination.

J.6 ACTION UPON TERMINATION

J.6.1 Upon receiving a notice of termination, and except as directed otherwise by the Owner, Contractor shall immediately cease placing further subcontracts or orders for materials, services, or facilities. In addition, Contractor shall terminate all subcontracts or orders to the extent they relate to the Work terminated and, with the prior written approval of the Owner, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts and orders.

J.6.2 As directed by the Owner, Contractor shall upon termination transfer title and deliver to the Owner all Record Documents, information, and other property that, if the Contract had been completed, would have been required to be furnished to the Owner.

SECTION K
CONTRACT CLOSE OUT

K.1 RECORD DOCUMENTS

As a condition of final payment (refer also to section E.6), Contractor shall comply with the following: Contractor shall provide to Owner's Authorized Representative, Record Documents of the entire project. Record Documents shall depict the project as constructed and shall reflect each and every change, modification, and deletion made during the construction. Record Documents are part of the Work and shall be provided prior to the Owner's issuance of final payment. Record Documents include all modifications to the Contract Documents unless otherwise directed. Media shall be electronic in addition to a cloud based storage for owner future use and access such as smartsheet.

K.2 OPERATION AND MAINTENANCE MANUALS

As part of the Work, Contractor shall submit two completed operation and maintenance manuals ("O & M Manuals") for review by the Owner's Authorized Representative prior to submission of any pay request for more than 75% of the Work. No payments beyond 75% will be made by the Owner until the 0 & M Manuals have been received. All O&M and closeout duties shall be via cloud based media such as smartsheet.com or other web based media acceptable to owner in electronic formatting in addition to hard copies. The O & M Manuals shall contain a complete set of all submittals, all product data as required by the specifications, training information, phone list of consultants, manufacturers, installer and suppliers, manufacturer's printed data, record and shop drawings, schematic diagrams of systems, appropriate equipment indices, warranties and bonds. The Owner's Authorized Representative shall review and return one O & M Manual for any modifications or additions required. Prior to submission of its final pay request, Contractor shall deliver three (3) complete and approved sets of O & M Manuals to the Owner's Authorized Representative.

K.3 AFFIDAVIT/RELEASE OF LIENS AND CLAIMS

As a condition of final payment, the Contractor shall submit to the Owner's Authorized Representative a notarized affidavit/release of liens and claims form, in a form satisfactory to Owner, which states that all Subcontractors and suppliers have been paid in full, all disputes with property owners have been resolved, all obligations on the project have been satisfied, all monetary claims and indebtedness have been paid, and that, to the best of the Contractor's knowledge, there are no claims of any kind outstanding against the project. The Contractor shall indemnify, defend (with counsel of Owner's choice) and hold harmless the Owner from all claims for labor and materials finished under this Contract. The Contractor shall furnish complete and valid releases or waivers, satisfactory to the Owner, of all liens arising out of or filed in connection with the Work.

K.4 COMPLETION NOTICES

K.4.1 Contractor shall provide Owner notice of both Substantial and Final Completion. The certificate of Substantial Completion shall state the date of Substantial Completion, the responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and the time within which the Contractor shall finish all items on the punchlist accompanying the Certificate. Both completion notices must be signed by the Contractor and the Owner to be valid. The Owner shall provide the final signature on the notices. The notices shall take effect on the date they are signed by the Owner.

K.4.2 Substantial Completion of a facility with operating systems (e.g., mechanical, electrical, HVAC) shall be that degree of completion that has provided a minimum of thirty (30) continuous Days of successful, trouble-free operation, which period shall begin after all performance and acceptance testing has been successfully demonstrated to the Owner's Authorized Representative. All equipment contained in the Work, plus all other components necessary to enable the Owner to operate the facility in the manner that was intended, shall be complete on the Substantial Completion date. The Contractor may request that a punch list be prepared by the Owner's Authorized Representative with submission of the request for the Substantial Completion notice.

K.5 TRAINING

As part of the Work, and prior to submission of the request for final payment, the Contractor shall schedule with the Owner's Authorized Representative, training sessions for all equipment and systems, as required in the individual specifications sections. Contractor shall schedule training sessions at least two weeks in advance of the date of training to allow Owner personnel adequate notice. Training by video shall be conducted by contractor at owner's request as part of contract duties.
The O & M Manual shall be used as a basis for training. Training shall be a formal session, held after the equipment and/or system is completely installed and operational in its normal operating environment. All training shall be videotaped and recorded and provided by cloud based accessible electronic means acceptable to the owner.

K.6 EXTRAMATERIALS

As part of the Work, Contractor shall provide spare parts, extra maintenance materials, and other materials or products in the quantities specified in the specifications, prior to final payment. Delivery point for extra materials shall be designated by the Owner's Authorized Representative.

K.7 ENVIRONMENTAL CLEAN-UP

As part of the Final Completion notice, or as a separate written notice submitted with or before the notice of Final Completion, the Contractor shall notify the Owner that all environmental pollution clean-up performed as a part of this Contract has been disposed of in accordance with all applicable rules, regulations, laws, and statutes of all agencies having jurisdiction over such environmental pollution. The notice shall reaffirm the indemnification given under Section F.5.1 above.

K.8 CERTIFICATE OF OCCUPANCY

The Contractor shall not be granted Final Completion or receive final payment if the Owner has not received an unconditioned certificate of occupancy from the appropriate state and/or local building officials, unless failure to obtain an unconditional certificate of occupancy is due to the fault or neglect of Owner.

K.9 OTHER CONTRACTOR RESPONSIBILITIES

The Contractor shall be responsible for returning to the Owner all items issued during construction such as keys, security passes, site admittance badges, and all other pertinent items. The Contractor shall be responsible for notifying the appropriate utility companies to transfer utility charges from the Contractor to the Owner. The utility transfer date shall not be before Substantial Completion and may not be until Final Completion, if the Owner does not take beneficial use of the facility and the Contractor's forces continue with the Work.

K.10 SURVIVAL

All warranty and indemnification provisions of this Contract, and all of Contractor's other obligations under this Contract that are not fully performed by the time of Final Completion or termination, shall survive Final Completion or any termination of the Contract

SECTION L

LEGAL RELATIONS & RESPONSIBILITIES

L.1 LAWS TO BE OBSERVED

In compliance with ORS 279C.525, Sections L.2 through L.4 contain lists of federal, state and local agencies of which the Owner has knowledge that have enacted ordinances or regulations relating to environmental pollution and the preservation of natural resources that may affect the performance of the Contract:

L.2 FEDERAL AGENCIES

Agriculture, Department of Forest Service

Soil Conservation Service Coast Guard

Defense, Department of Army Corps of Engineers Energy, Department of

Federal Energy Regulatory Commission Environmental Protection Agency

Health and Human Services, Department of Housing and Urban Development, Department of Solar Energy and Energy Conservation Bank Interior, Department of

Bureau of Land Management Bureau of Indian Affairs Bureau of Mines

Bureau of Reclamation Geological Survey Minerals Management Service

U.S. Fish and Wildlife Service

Labor, Department of

Mine Safety and Health Administration

Occupation Safety and Health Administration

Transportation, Department of

Federal Highway

Administration Water

Resources Council

L.3 STATE AGENCIES

Administrative Services, Department of

Agriculture, Department of Soil and Water

Conservation Commission

Columbia River Gorge Commission Energy,

Department of Environmental Quality,

Department of Fish and Wildlife, Department of

Forestry, Department of Geology and Mineral

Industries, Department of Human Resources,

Department of

Consumer and Business Services, Department of Land

Conservation and Development Commission Parks and

Recreation, Department of State Lands, Division of Water

Resources

L.4 LOCAL AGENCIES

City Councils County

Courts

County Commissioner, Board of Design

Commissions Historical Preservation

Commission Planning Commissions

Exhibit B

REYNOLDS SCHOOL DISTRICT
GMP AMENDMENT TO CONTRACT

THIS AMENDMENT IS BETWEEN:

OWNER:
Reynolds School District No. 7
1204 NE 201ST Avenue
Fairview, OR 97024-2499

And

TBD
CONSTRUCTION MANAGER/
GENERAL CONTRACTOR
(referred to in the Standard General Conditions For Public Improvement Contracts as Contractor and referred to herein as "the CM/GC"):

The Project is: Reynolds School District New Troutdale Replacement Elementary

Date of Original CM/GC Contract:

Date of this Amendment:

The Owner and CM/GC hereby amend the Contract as set forth below. Capitalized terms used but not defined herein shall have the meanings given in the Contract Documents. Except as amended hereby, the Contract remains in full force and effect.

1. GMP. The parties agree that the GMP for the Project is $, consisting of the Preconstruction Fee, the Estimated Cost of the Work and the CM/GC Fee (stated as a fixed dollar lump sum amount), as follows:

Preconstruction Fee:	$
Estimated Cost of Work (Est. COW):	$
CM/GC Fee/Liab. Insurance/P&P Bond (% of Est. COW):	**$**
GMP (Total of above categories):	$

For purposes of determining the GMP, the Estimated Cost of the Work includes the CM/GC's Contingency, the Cost for GC Work, and the costs of all components and systems required for a complete, fully functional facility.

2. Basis of GMP. The GMP is based on the GMP Supporting Documents attached as Attachments A-F (pages) including the Allowances, assumptions, exclusions, unit prices, and alternates designated therein.

3. Plans and Specifications. The Plans and Specifications for the Project are as listed in the GMP Supporting Documents. CM/GC shall perform Construction Phase Services in accordance with the Plans and Specifications and the other Contract Documents.

4. Substantial Completion Date. Notwithstanding any provision in the GMP Supporting Documents to the contrary, the required date for Substantial Completion is: *[Select one of the following (insert new date if different Substantial Completion date has been agreed upon): the date stated in the Contract/ , 201_ .]*

5. Tax Compliance Certification. The individual signing on behalf of CM/GC hereby certifies and swears under penalty of perjury that s/he is authorized to act on behalf of CM/GC, s/he has authority and knowledge regarding CM/GC's payment of taxes, and to the best of her/his knowledge, CM/GC is not in violation of any Oregon tax laws. For purposes of this certification, "Oregon tax laws" are those tax laws listed in ORS 305.380(4), namely ORS Chapters 118, 314, 316, 317, 318, 320, 321 and 323 and Sections 10 to 20, Chapter 533, Oregon Laws 1981, as amended by Chapter 16, Oregon Laws 1982 (first special session); the elderly rental assistance program under ORS 310.630 to 310.706; and any local taxes administered by the Oregon Department of Revenue under ORS 305.620.

THIS AMENDMENT is executed in four original copies of which one is to be delivered to the CM/GC, and the remainder to Owner.

CM/GC:

Name of Firm:

Address:

CM/GC's Federal Tax I.D. #:

Construction Contractor's Board Registration No.:

_____
Signature of Authorized Representative of CM/GC
Title Date

OWNER:

REYNOLDS SCHOOL DISTRICT SCHOOL BOARD

_____
Signature of Reynolds School District School Board Representative
Title Date

REVIEWED AS TO SCOPE SUFFICIENCY

Reviewed
_____
Signature of Owners Representative
Date

Attachment A Plans, Specifications, Supplementary Conditions of the Contract, on which the Guaranteed Maximum Price is based, pages through dated .

Attachment B Allowance items, pages through dated .

Attachment C Assumptions and clarifications made in preparing the Guaranteed Maximum Price, pages through , dated .

Attachment D Completion schedule, pages through , dated .

Attachment E Alternate prices, pages through , dated .

Attachment F Unit prices, pages through , dated .

EXHIBIT C

COST FOR GENERAL CONDITIONS WORK

The table below states the categories of specific General Conditions Work costs that support the Cost for General Conditions Work that will be payable under the Contract. The total Cost for General Conditions Work shown below, based on the categories of General Conditions Work below, shall be the not to exceed amount that will be payable to CM/GC for General Conditions Work, regardless of the final Project cost or the actual construction period required to complete the Project. All items of General Conditions Work listed by Owner in the table below will be compensated in a not to exceed amount on a cost reimbursement basis. Any item of Work that might customarily be considered to be General Conditions Work by CM/GC but which Owner has not listed in the table below may be compensated on a cost reimbursement basis if it is described as Cost of the Work in Article 8.

B.1 Project Manager	B.28 Office Security
B.2 Project Engineer	B.29 Sustainability Coordinator/Supervisor
B.3 Superintendent	B.30 Clerical/Secretarial
B.4 Field Supervision	B.31 Project Coordination
B.5 Field Coordination	B.32 Estimating and Cost Engineering
B.6 General Foreman	B.32 Overtime for CM/GC Onsite Supervisory Staff
B.7 Quality Control	B.34 Field Engineer
B.8 Safety Coordinator/Supervisor	B.35 Delivery Services
B.9 Trade Coordination	B.36 Project Foreman
B.10 Office Equipment	B.37 Fork Lift for Loading/Unloading of misc. materials
B.11 Printing/Reproduction	B.38 Loading & Unloading of miscellaneous materials
B.12 Phones/Phone lines (Cell or Land lines)	B.39Jobsite Clean-up (excludes Final Cleanup)
B.13 Fuel/Maintenance	B.40 Office Supplies
B.14 Substance Abuse Testing	B.41 Office Clean-up
B.15 Construction Signage	B.42 Temporary Toilets/Sinks
B.16 Progress Photo (Monthly)	B.43 First Aid Supplies
B.17 Temporary Office	B.44 IT Equipment
B.18 Postage/Delivery	B.45 Material Handling
B.19 Internet service	B.46 Staging Area Maintenance
B.20 Vehicles	B.47 Safety barrier/Safety warnings/Safety Handrails
B.21 Submittal Review & Approval	B.48 All cost for Sustainable Construction Practices,
B.22 Courier Delivery Services	B.49 Temp. water include distribution & utility charges
B.23 Drop Boxes & Disposal Fees	B.50 Drinking Water
B.24 Office Furniture	B.51 Small Tools
B.25 Drafting and Detailing	B.52 Maintenance & Monitoring of Erosion Control
B.26 Site Security	B.53 Travel / Mileage / Subsistence
B.27 All Background Checks, & fingerprinting	B.54 Site Webcam and services @ beginning to completion