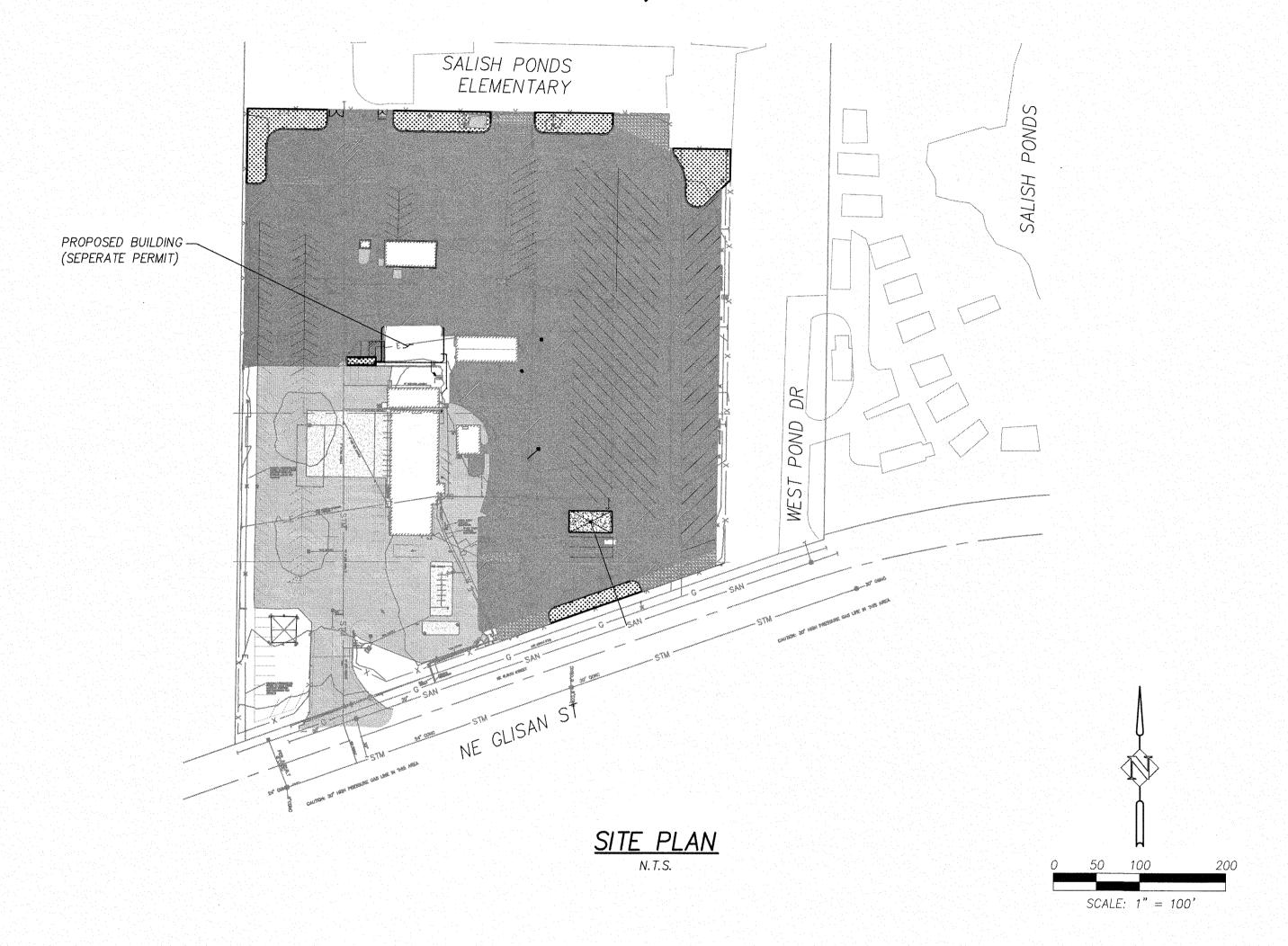
REYNOLDS SCHOOL DISTRICT TRANSPORTATION YARD IMPROVEMENTS

FAIRVIEW, OREGON



OWNER

REYNOLDS SCHOOL DISTRICT
1204 NE 201ST AVE
FAIRVIEW, OR 97024
(503) 434-3650

CONTACTS: BOB COLLINS

ENGINEER

HARPER HOUF PETERSON RIGHELLIS INC.
205 SE SPOKANE STREET
PORTLAND, OREGON 97202
(503) 221-1131
CONTACTS: BEN AUSTIN, P.E.

SITE INFORMATION

20311 NE GLISAN, FAIRVIEW, OREGON 97024

EMAIL: BENA@HHPR.COM

SHEET INDEX

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2 NOTES

NOTES
UTILITY PLAN
GRADING PLAN
STRIPING PLAN
DETAILS
DETAILS

DETAILS

LEGEND:

EXISTING CONCRETE SURFACE

EXISTING ASPHALT SURFACE

PROPOSED GRAVEL SURFACE

arper ouf Peterson ghellis Inc.

YARD IMPROVEMENTS

TRANSPORTATION

HHPR Hou

EXPIRES: 12/31/7 phon

DESIGNED:

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40. DESCRIPTION
3 E V I S I O N S

SHEET NO.

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GENERAL NOTES

"ALL WORK AND MATERIALS SHALL CONFORM TO THE "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION" 2015 EDITION AS MODIFIED BY THE CITY OF FAIRNEW SPECIFICATIONS, PREPARED BY THE OREGON DEPARTMENT OF TRANSPORTATION AND THE OREGON CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION.

EXISTING UTILITIES SHOWN ON THE PLANS ARE PER SURFACE LOCATIONS AND AS-BUILT DRAWINGS ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE ENGINEER. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY UTILITY IN CONFLICT WITH THE PROPOSED CONSTRUCTION. TOPOGRAPHIC SURVEY BY HARPER HOUF PETERSON RIGHELLIS INC. DATED 2015. THE HORIZONTAL COORDINATES ARE LOCAL DATUM PLANE GROUND COORDINATES BASED UPON THE OREGON STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD83 DATUM PER OPUS SOLUTION. VERTICAL DATUM IS NAVD 88 PER OPUS SOLUTION. THE PROPERTY BOUNDARY LINES SHOWN ARE UPON FOUND RECORD MONUMENTS AND RECORD SURVEY DATA PER SW 29,107 MULTNOMAH COUNTY SURVEY RECORDS. THE PROPERTY BOUNDARY LINES SHOWN ARE FOR REFERENCE ONLY AND SHOULD BE CONSIDERED APPROXIMATE. THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY.

CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION. A CITY BUSINESS LICENSE IS REQUIRED.

CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE CITY OF FAIRVIEW INSPECTOR 48 HOURS BEFORE STARTING CONSTRUCTION AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE CITY OF FAIRVIEW TO ELIMINATE UNNECESSARY INSPECTION TIME.

CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, TOPSOIL, AND OTHER MATERIAL IN THE RIGHT-OF-WAYS, EASEMENTS, AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET LOCAL REGULATIONS.

CONSTRUCTION VEHICLES SHALL PARK ON THE CONSTRUCTION SITE. HOURS OF CONSTRUCTION SHALL BE 7:00 AM TO 6:00 PM MONDAY THROUGH FRIDAY, AND 8:00 AM TO 5:00 PM ON SATURDAY. CONSTRUCTION PROHIBITED ON SUNDAY.

CONTRACTOR SHALL KEEP AND MAINTAIN A CURRENT SET OF DRAWINGS FOR THE PROJECT ENGINEER SHOWING AS-CONSTRUCTED DATA. THE PROJECT ENGINEER SHALL SUBMIT TWO SETS OF AS-BUILTS/RECORD DRAWING MYLARS TO THE CITY OF HAPPY VALLEY. CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON THE PROJECT SITE AT ALL TIMES.

CONTRACTOR SHALL ERECT AND MAINTAIN TRAFFIC CONTROL PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", PART VI, CONSTRUCTION AND MAINTENANCE, AS ADOPTED AND MODIFIED BY ODOT. THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE TRAFFIC CONTROL TO APPROPRIATE CITY, COUNTY, AND STATE PERSONNEL FOR

CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND OTHERS AS NECESSARY TO PROVIDE A COMPLETE PROJECT.

ANY ALTERATION OR VARIANCE FROM THESE PLANS, EXCEPT MINOR FIELD ADJUSTMENTS NEEDED TO MEET EXISTING FIELD CONDITIONS, SHALL FIRST BE APPROVED BY THE APPLICABLE AGENCY REPRESENTATIVE. ANY ALTERATION OR VARIANCE FROM THESE PLANS SHALL BE DOCUMENTED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE PROJECT ENGINEER.

CONTRACTOR SHALL PROVIDE THE NECESSARY EROSION PROTECTION TO MINIMIZE EROSION AND IMPACT TO ADJACENT PROPERTIES.

EXCAVATOR(S) MUST COMPLY WITH O.R.S. 757.541 THROUGH 757.571; EXCAVATOR(S) SHALL NOTIFY ALL UTILITY COMPANIES FOR LINE LOCATIONS 72 HOURS (MIN.) PRIOR TO START OF WORK. DAMAGE TO UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR IS REQUIRED TO PROVIDE ALL REQUIRED SURVEY STAKING FOR THE PROJECT.

AT THE END OF EACH WORK DAY THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL.

CONTRACTOR SHALL PROTECT EXISTING WATER SERVICE LINES. ALL DISTURBED WATER SERVICE LINES SHALL BE REPAIRED AS DIRECTED BY ENGINEER.

GRADING AND COMPACTION NOTES

ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR EQUIVALENT STANDARD (AASHTO T-180).

CONTRACTOR TO PROOF ROLL SUBGRADE, WITH ENGINEER AND CITY REPRESENTATIVE PRESENT, PRIOR TO CRUSHED ROCK PLACEMENT AND PRIOR TO PAVING AND CURB INSTALLATION.

STORM DRAINAGE NOTES

PRIVATE STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FAIRVIEW, THE INTERNATIONAL BUILDING CODE (IBC) AND 2014 OREGON PLUMBING SPECIALTY CODE.

STORM DRAIN PIPE SHALL BE AS SHOWN ON PLAN, OR PVC 3034 SDR 35, OR A.S.T.M. C-14, CLASS 3 CONCRETE SEWER PIPE, OR AWWA C900 PVC, CLASS 100, OR HDPE SMOOTH INTERIOR, CORRUGATED EXTERIOR SEWER PIPE WITH BELL AND SPIGOT JOINTS, CONFORMING TO AASHTO M294.

THE CONTRACTOR SHALL TEST ALL PVC AND HDPE STORM PIPE FOR DEFLECTION AS PER CITY OF FAIRVIEW SPECIFICATIONS. A COPY OF THE TEST RESULTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.

THE CONTRACTOR SHALL FLUSH THE ENTIRE STORM SYSTEM AND VIDEO INSPECT ALL STORM SEWER CONVEYANCE PIPES. A COPY OF THE REPORT AND VIDEO TAPE SHALL BE SUBMITTED FOR REVIEW AND

ALL STORM SEWER PIPES SHALL HAVE A RUBBER GASKET. ALL STORM PIPE AND RELATED CONNECTIONS TO CATCH BASINS, MANHOLES, AND OTHER RELATED STRUCTURES SHALL BE WATER TIGHT AS PER CITY OF

CATCH BASINS SHALL BE INSTALLED TO FINISH GRADE.

ADJUST MANHOLES, CLEAN OUT AND AREA DRAIN RIMS TO FINISH GRADE.

ALL RAIN DRAIN PIPING INSTALLED WITHIN 5.0 FEET OF A BUILDING TO BE SCHEDULE 40 PVC-D.W.V. PIPING OR APPROVED EQUAL. COORDINATE LOCATION OF RAIN DRAINS WITH PLUMBING PLANS

FOUNDATION DRAIN DRAIN PIPE SHALL BE COORDINATE WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS. INSTALL CLEANOUT AND ACCESSIBLE FLAPPER TYPE BACKWATER VALVE AT FOUNDATION DRAIN CONNECTION . SET RIM TO FINISH GRADE. COORDINATE FOUNDATION DRAIN CONNECTION POINTS WITH ARCHITECTURAL AND STRUCTURAL PLANS

SANITARY SEWER NOTES

ALL SANITARY SEWER CONSTRUCTION TO WITHIN FIVE (5) FEET OF THE BUILDING SHALL BE IN ACCORDANCE WITH CITY OF FAIRVIEW, THE INTERNATIONAL BUILDING CODE (IBC) AND 2014 OREGON PLUMBING SPECIALTY

PRIVATE SANITARY SEWER PIPE WITHIN FIVE (5) FEET OF THE BUILDING SHALL BE DRAIN WASTE VENT (DWV), IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC) AND 2014 OREGON PLUMBING SPECIALTY CODE.

POLYVINYL CHLORIDE PIPE (PVC) SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3034, SDR 35, AND JOINT TYPE SHALL BE ELASTOMERIC GASKET CONFORMING TO ASTM D-3212.

MANHOLES TO BE PRECAST CONCRETE SECTIONS WITH MINIMUM INSIDE DIAMETER OF 48", CONFORMING TO THE REQUIREMENTS OF ASTM C-478, EXCEPT AS NOTED ON THE PLANS. POURED IN PLACE MANHOLES MAY BE

POLYVINYL CHLORIDE PIPE (PVC) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PVC SEWER PIPE SHALL BE CONNECTED TO CONCRETE MANHOLES BY MEANS OF AN APPROVED COUPLING WITH AN ELASTOMERIC GASKET, AN APPROVED WATERSTOP OR FLEXIBLE SLEEVE. USE OF PORTLAND CEMENT GROUT FOR CONNECTION OF PVC SEWER PIPE TO MANHOLES WILL NOT BE PERMITTED.

WHERE SANITARY LINES CROSS WATER LINES, THE SYSTEMS NEED TO BE CONSTRUCTED SUCH THAT THE CROSSING WILL OCCUR AT THE CENTER OF A PIPE SEGMENT FOR BOTH LINES.

PRIOR TO TESTING AND INSPECTION OF THE SANITARY PIPELINE, ALL PARTS OF THE SYSTEM SHALL BE CLEANED OF ALL DEBRIS.

TESTING OF PUBLIC SANITARY PIPELINE AND SANITARY MANHOLES SHALL BE IN ACCORDANCE WITH CITY OF FAIRVIEW STANDARD SPECIFICATIONS.

TESTING OF PRIVATE SANITARY PIPELINE SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE AND UNIFORM PLUMBING CODE.

ALL SANITARY PIPELINE SHALL PASS THE REQUIRED AIR TEST, MANDREL TEST, AND COMPACTION TEST. ALL SANITARY PIPELINE SHALL BE VIDEO INSPECTED, AND BE FREE OF VISIBLE LEAKS. SANITARY MANHOLES SHALL BE TESTED USING THE HYDROSTATIC TEST OR THE VACUUM TEST.

MISC. UTILITIES

ELECTRICAL, TELEPHONE, GAS, AND TV INSTALLATION SHALL BE COORDINATED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANY INCLUDING REQUIREMENTS FOR UTILITY CROSSING SLEEVES.

ALL PROPOSED POWER, TELEPHONE, GAS, AND TV SERVICES ON SITE SHALL BE PLACED UNDERGROUND.

TRENCH BACKFILL WITHIN THE PUBLIC RIGHT OF WAY TO BE CRUSHED ROCK. THIS APPLIES TO ALL UTILITY INSTALLATIONS: STORM, SANITARY, WATER, IRRIGATION CROSSINGS, PRIVATE UTILITES.

WATER SYSTEM NOTES

ALL CONSTRUCTION AND WATER LINES MATERIALS FOR PRIVATE SITE SHALL MEET THE REQUIREMENTS OF THE UNIFORM PLUMBING CODE, CITY OF FAIRVIEW, AND THE INTERNATIONAL BUILDING CODE. FIRE LINES SHALL ALSO MEET THE MATERIAL REQUIREMENTS FOR THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

WATER MAINS TO HAVE A MINIMUM COVER OF 30-INCHES OR AS REQUIRED BY PLUMBING CODE AND

AN APPROVED MECHANICAL RESTRAINT SYSTEM IS TO BE USED AT ALL BRANCHES AND CHANGES IN DIRECTION.

GATE VALVES (6-INCH THROUGH 12-INCH) SHALL BE RESILIENT-SEATED TYPE CONFORMING TO AWWA C509. BUTTERFLY VALVES 18-INCH AND LARGER SHALL BE CLASS 150 SHORT BODY TYPE IN CONFORMANCE WITH AWWA C504. WHERE WATER SYSTEM STATIC PRESSURES EXCEED 100 PSI, BUTTERFLY VALVES SHALL BE CLASS 250B, SHORT BODY TYPE IN CONFORMANCE WITH AWWA C504. VALVE BOXES SHALL BE VANCOUVER 910/18-INCH LONG WITH 6-INCH PVC 3034 AS BOTTOM SECTION. VALVE BOXES THAT ARE LOCATED OUTSIDE AREAS TO BE PAVED SHALL HAVE A 2' X 2' X 2" THICK COLLAR OF HOT ASPHALT PLACED AROUND THEM. WHERE THE TOP OF THE VALVE OPERATING NUT IS 48-INCHES OR MORE BELOW FINISHED GRADE, OPERATION EXTENSIONS SHALL BE PROVIDED TO BRING THE OPERATING NUT TO A POINT 18-INCHES BELOW FINISHED GRADE. THE EXTENSION STEM SHALL BE CONSTRUCTED OF STEEL.

FIRE HYDRANTS SHALL BE MUELLER CENTURION, M & H 929 RELIANT OR CLOW F—2500 OR KENNEDY GUARDIAN, WITH 6 INCH MJ INLET AND 5-1/4 INCH VALVE OPENING. FIRE HYDRANTS ARE TO HAVE 4-1/2 INCH AND TWO 2-1/2 INCH OUTLETS. PUMPER OUTLET TO FACE THE DIRECTION OF ACCESS.

TAPPING SLEEVES SHALL BE EITHER EPOXY-COATED STEEL WITH STAINLESS STEEL BOLTS OR STAINLESS STEEL FULL CIRCLE TAPPING SLEEVES.

GRANULAR MATERIAL USED FOR PIPE BASE, PIPE ZONE AND TRENCH BACKFILL SHALL BE 3/4"-0" CRUSHED ROCK. PIPE BASE SHALL BE MINIMUM OF 4-INCHES DEEP AT THE PIPE BARREL, AND NOT LESS THAN 3-INCHES DEEP AT THE BELL. GRANULAR BACKFILL IS TO BE COMPACTED TO 95% MAXIMUM DENSITY PER AASHTO T99 TEST METHOD AND NATIVE MATERIAL SHALL BE COMPACTED TO 85% OF IN-PLACE DENSITY OF SURROUNDING SOIL. BACKFILL WITHIN RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH APWA CLASS 'B' BACKFILL.

ALL MATERIALS, INSTALLATION, TESTS AND CHLORINATION TO BE IN ACCORDANCE WITH THE STANDARDS AND CODES OF THE CITY OF FAIRVIEW AND THE OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333, DIVISION 061.

WHERE SANITARY LINES CROSS WATER LINES, THE SYSTEMS NEED TO BE CONSTRUCTED SUCH THAT THE CROSSING WILL OCCUR AT THE CENTER OF A PIPE SEGMENT FOR BOTH LINES.

WATER LINE SHALL HAVE A MINIMUM 1 FT SEPARATION AT STORM AND SANITARY CROSSING. CONTRACTOR SHALL ROUTE WATER LINE BELOW STORM OR SANITARY AT LOCATIONS WHERE MINIMUM COVER IS NOT MET.

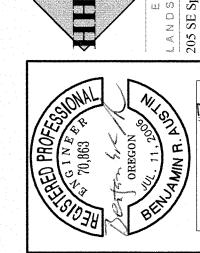
ALL FIRE LINES AND FDC'S TO BE FLUSHED CLEAN AND WITNESSED BY THE CITY OF FAIRVIEW.

TRAFFIC CONTROL NOTES

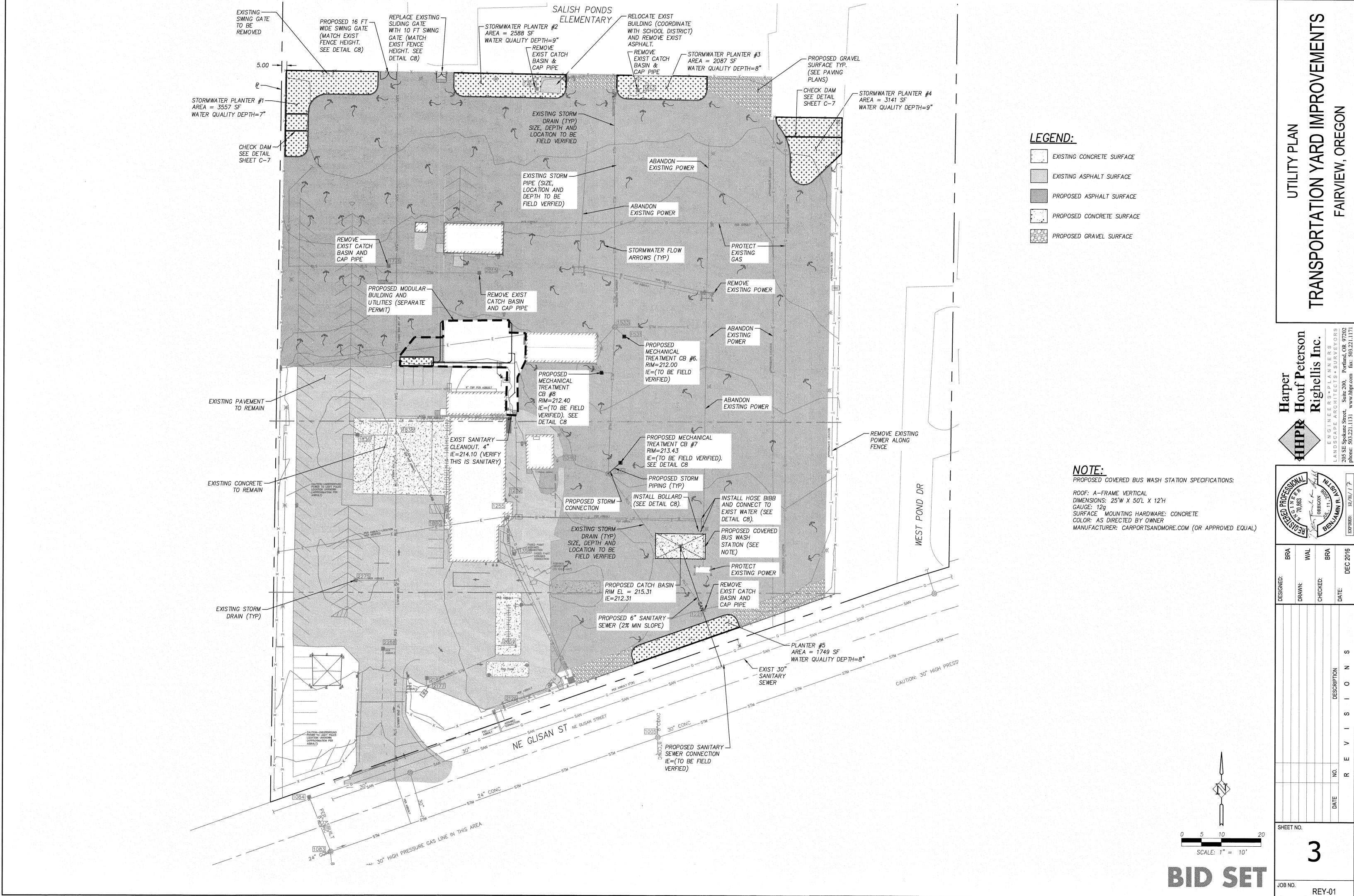
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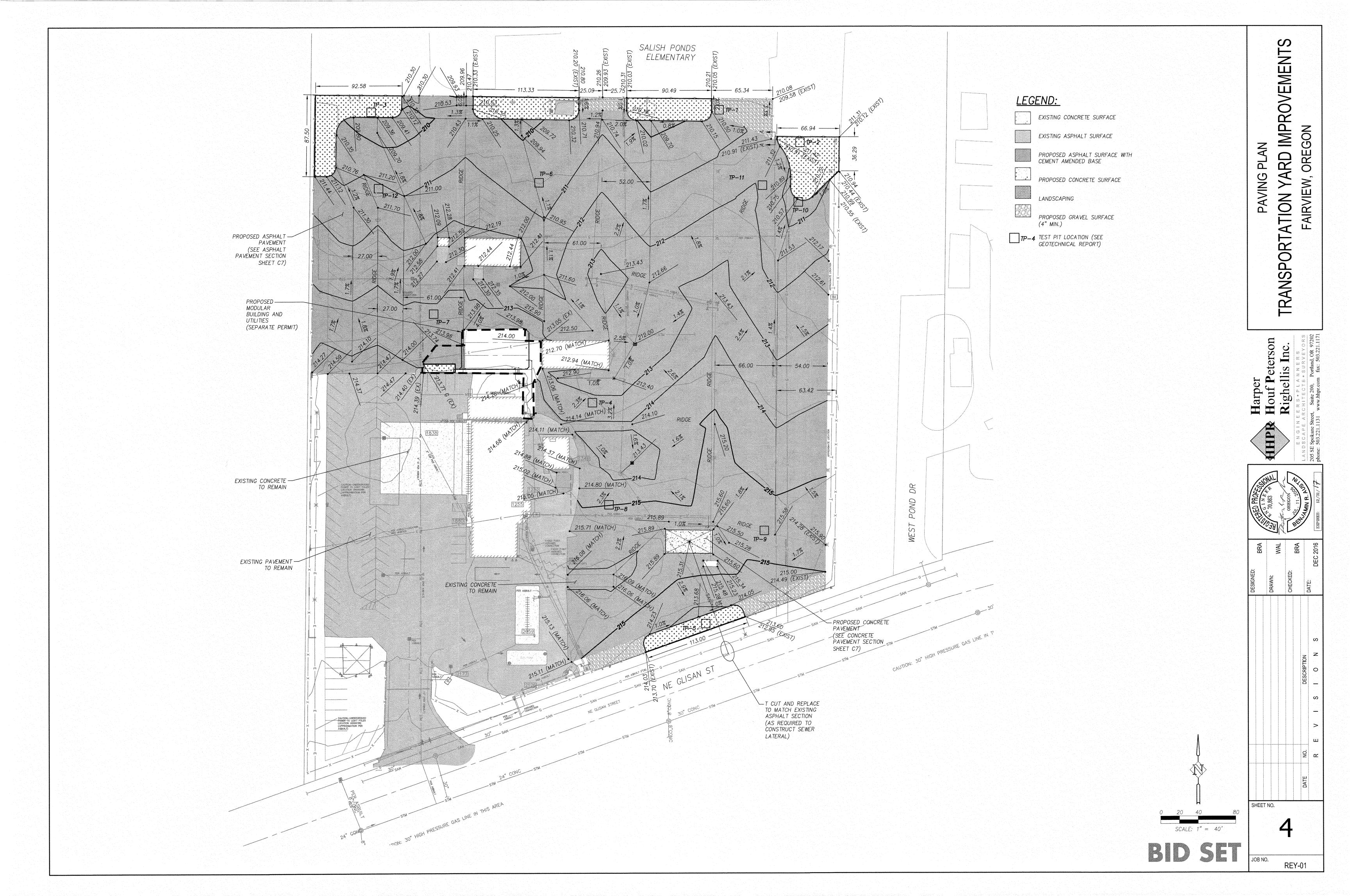
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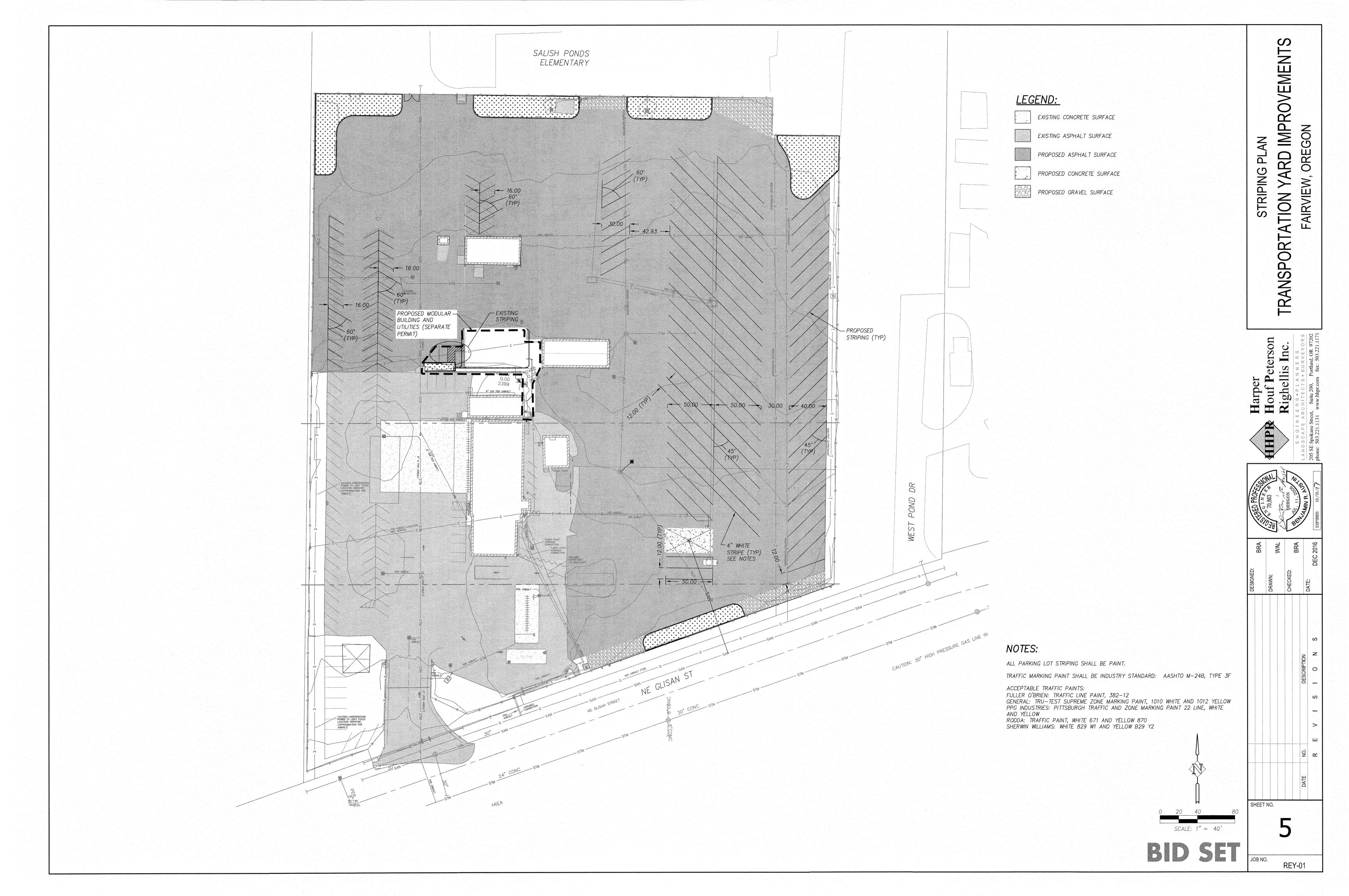
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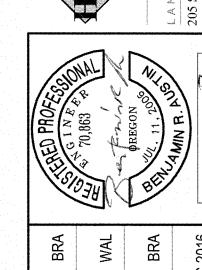








Harper Houf Peterson Righellis Inc.



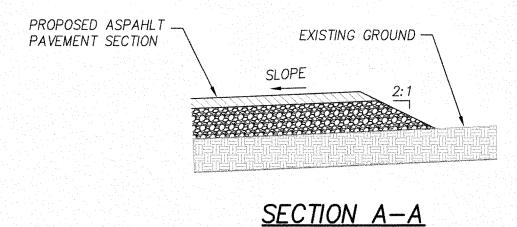
SHEET NO.

REY-01

4.5" A.C. PAVEMENT, LEVEL 3, 1/2" DENSE -ASPHALT CONCRETE PAVEMENT. LIFT THICKNESS IS 2.0 AND 3.0 INCHES, RESPECTIVELY. ASPHALT BINDER SHALL BE PG 64-22 OR BETTER. 3" 0-3/4" MINUS BASE AGGREGATE 16" CEMENT AMENDED BASE CEMENT RATIO OF 6% BY DRY UNIT WEIGHT (SEE GEOTECHNICAL REPORT) 12" FULLY COMPACTED SUBGRADE (95% COMPACTION-MAX DRY DENSITY ASTM D 1557)

NOTE: A.C. PAVEMENT SHALL BE COMPACTED TO 91% OF AASHTO T 209.

ASPHALT PAVEMENT SECTION



6" CONCRETE WITH #4
REBAR AT 12 O.C. EACH WAY 6" CRUSHED ROCKBASE 34" MINUS (95% COMPACTION ASTM D1557) 12" FULLY COMPACTED SUBGRADE (90% COMPACTION - MAX DRY DRY DENSITY ASTM D 1557)

CONCRETE PAVEMENT SECTION

- VARIES (SEE PLANS) -7"-9" WATER_ FINISH GRADE SURFACE. SEE QUALITY DEPTH GRADE SURFACE. SEE PLANS PLANS (SEE PLANS) - 6" BENCH -18" GROWING MEDIUM. SEE LANDSCAPE PLANS FOR DETAILS 3" OF $\frac{3}{4}"$ TO $\frac{1}{2}"$ WASHED, CRUSHED ROCK CONSTRUCT PLANTER / WALL PER DETAIL 12" OF 1/2" TO 3/4" WASHED DRAIN ROCK

PLANTER BOTTOM

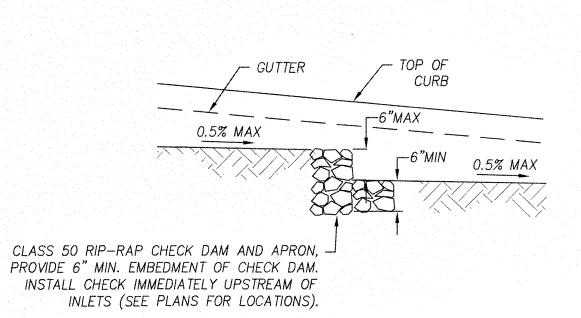
_4" THICK CONCRETE SPLASH PAD

CONCRETE INLET

(PLANTER ONLY)

STORMWATER PLANTER TYPICAL SECTION

ASPHALT PAVEMENT



PAVED AREAS

PIPE BEDDING AND BACKFILL DETAIL

N.T.S.

(3/4" – 0") GRANULAR BACKFILL

4" THICK CONCRETE

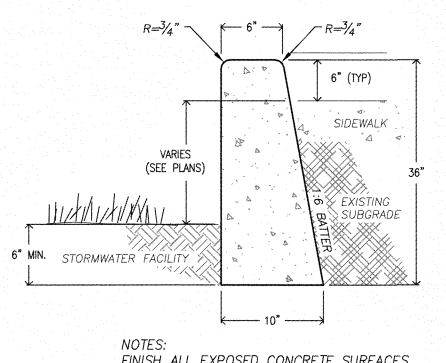
SPLASH PAD (PLANTER ONLY)

PLAN VIEW

REFER TO PLANS

BACKFILL

STORMWATER PLANTER CHECK DAM SECTION

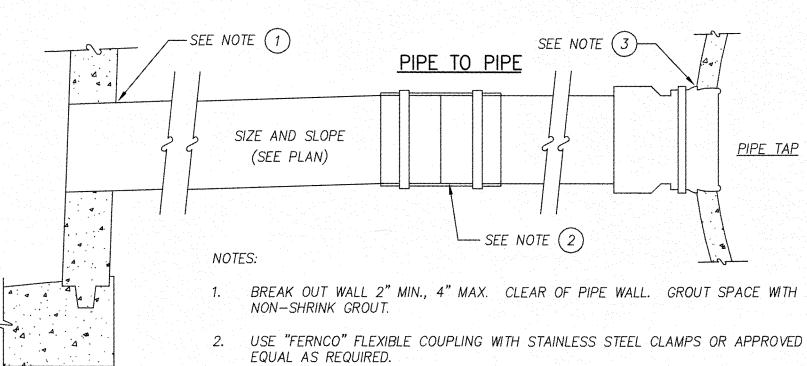


FINISH ALL EXPOSED CONCRETE SURFACES SEE GRADING PLAN FOR ELEVATIONS ON PLANTER WALL

PLANTER WALL DETAIL 1

13,122

10,498



PIPE CONNECTION

CUT HOLE INTO PIPE AND INSTALL "FOWLER" SEWER BOOT TAP OR APPROVED

STORMWATER PLANTER SQ. FOOT AREA -ZONE A

SYMBOL	SCIENTIFIC NAME	COMMON NAME	PLANT TYPE	ZONE	SIZE	SPACING ON CENTER	PLANTS
+ + + + + + + + + + + + + + + + + + + +	JUNCUS PATENS	SPREADING RUSH	HERBACEOUS		#1	1.25	2,625
+ + + + + + + + + + + + + + + + + + + +	JUNCUS EFFUSUS PACIFICUS	SOFT RUSH	HERBACEOUS	A	#1	1.25	2,624
+ + + + + + + + + + + + + + + + + + + +	CAREX OBNUPTA	SLOUGH SEDGE	HERBACEOUS	A.	#1	1.25	2,625
+ + + + + + + + + + + + + + + + + + + +	CAREX DENSA	DENSE SEDGE	HERBACEOUS	A	#1	1.25	2,624

TOTAL ZONE A HERBACEOUS PLANTINGS

GENERAL PLANTING NOTES

MANHOLE OR CATCH BASIN

1. INSTALL AND/OR MAINTAIN EROSION CONTROL SYSTEMS IN ACCORDANCE WITH CITY OF TROUTDALE STANDARDS PRIOR TO SITE WORK AND LANDSCAPE INSTALLATION.

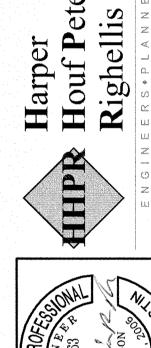
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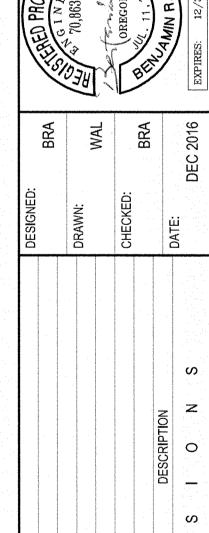
- 2. CONTRACTOR SHALL REMOVE ALL WEEDS AND INVASIVE SPECIES PRIOR TO PLANTING.
- 3. PLANT MATERIAL INSTALLED SHALL CONFORM IN SIZE AND GRADE TO THE "AMERICAN STANDARD FOR NURSERY STOCK" CURRENT EDITION.
- 4. LANDSCAPE CONTRACTOR SHALL WATER PLANTINGS FOR THE DURATION OF <u>TWO-YEAR</u> ESTABLISHEMENT PERIOD AFTER INSTALLATION AND GUARANTEE ALL PLANTINGS TO BE ALIVE AND IN SATISFACTORY HEALTH.
- 5. STORMWATER PLANTERS TO RECEIVE 18" OF CITY OF PORTLAND APPROVED STORMWATER FACILITY TOP SOIL

BID SET

PIPE TAP

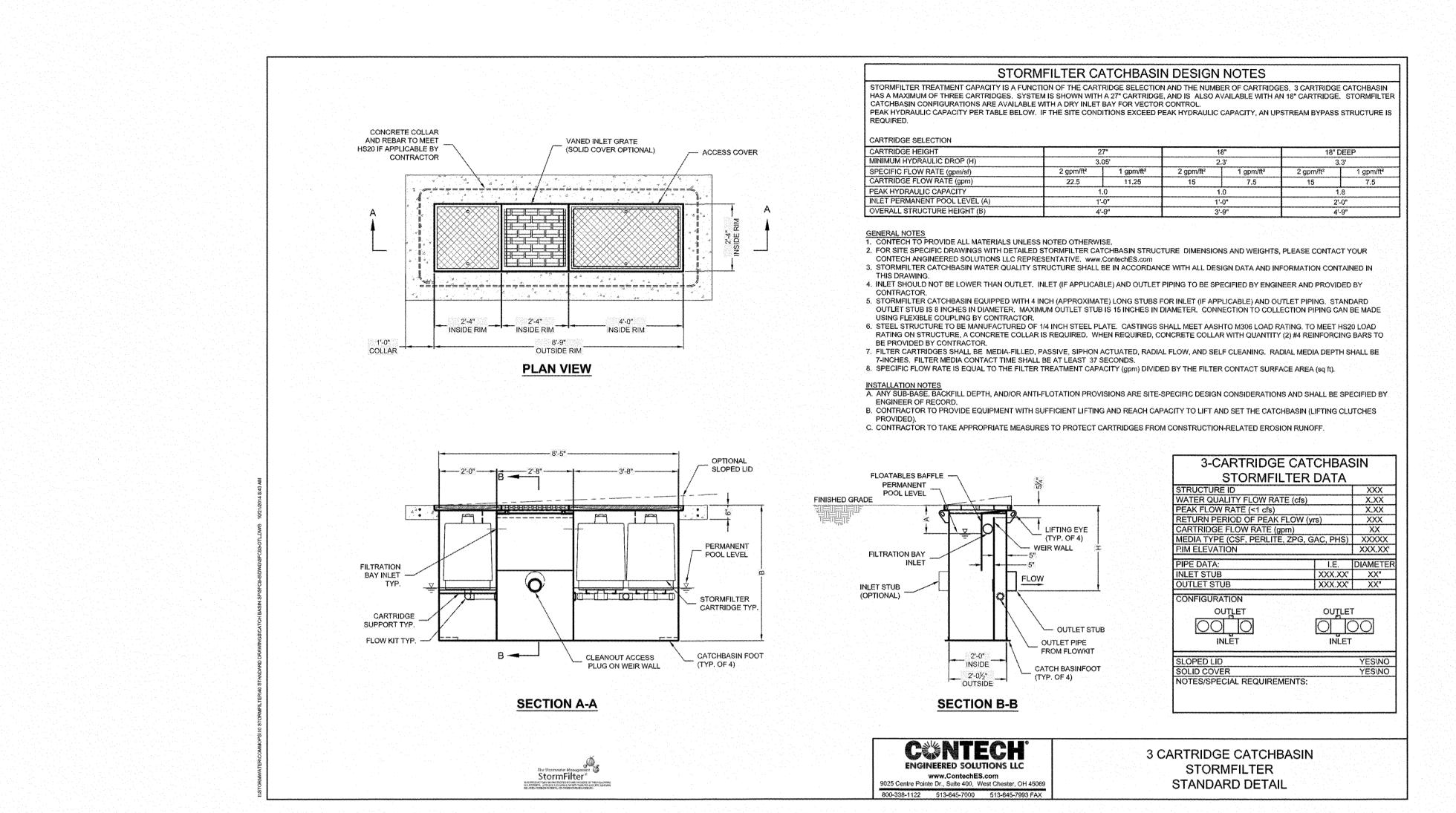






SHEET NO.

BD SET REY-01



MEMBER

END, CORNER & GATE
INTERMEDIATE GATE OPENING POSTS
END POST (FT) TUBULAR

DOUBLE GATE

UP THRU 12

13 THRU 26

27 THRU 36

UP THRU 12

13 THRU 26

27 THRU 36

NOM. DIA. (IN)

2 1/2

3 1/2

2 1/2

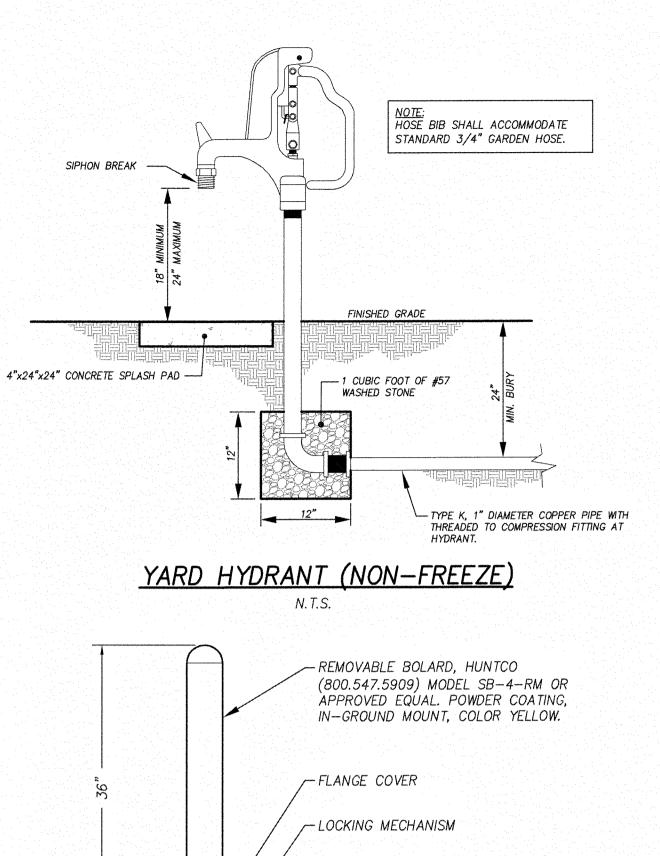
3 1/2

TUBULAR NOM. DIA.

(IN)

2 1/2

2 1/2



-FINISH GRADE

BOLLARD DETAIL

N.T.S.

-5"ø SCH. 40 PIPE SLEEVE

- IN-GROUND CONCRETE MOUNT

GATE FRAME -TRUSS ROD -1 1/2" NOM. PIPE SIZE 3/8" DIA. -MATCH HEIGHT OF EXISTING CHAIN LINK FENCE 2" FABRIC MESH (9 GA.) FENCE POST SHALL SHALL BE CHAIN LINK FABRIC -1-1/2" DIA. (NOM) HOT DIPPED GALVANIZED W/ DOME CAPS PER ODOT STANDARDS. USE ODOT 2" MESH, 11 GAGE WITH VINYL PRIVACY SLATS (MATCH EXIST) GATE POST STANDARD DRAWING. - CONCRETE ENCASED 2' DEEP STETCHER BAR -1' DIAMETER MIN. - EXISTING GRADE-

TYPICAL FENCE ELEVATION NTS

TYPICAL FENCE SECTION NTS

CL-6 FENCE N.T.S.

CL-4 & CL-4R 1 1/4 CL-5 & CL-6R 1 1/4 CL-6 FENCE GATE

N.T.S.

AND

TOP RAILS

S CL-6 & CL-6R

LINE POSTS

(IN) (IN) LB/FT

2 ½ X 4.10

TUBULAR TUBULAR H-SECTION NOM. DIA. NOM. DIA. SIZE WT.

1 1/2