WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

PROJECT CONTACTS:

<u>OWNER</u>

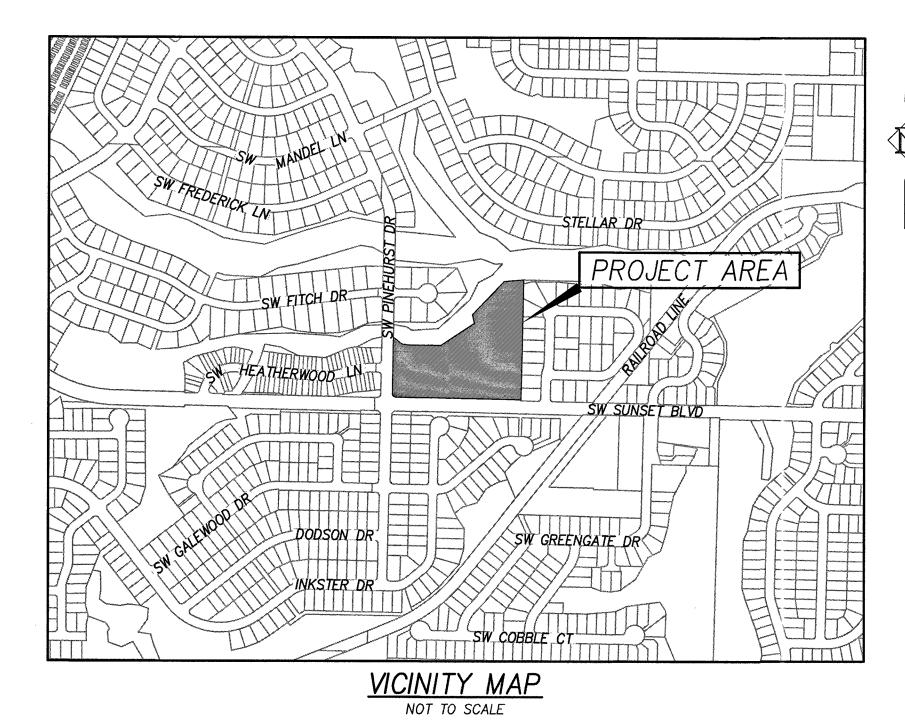
CITY OF SHERWOOD COMMUNITY SERVICES DEPARTMENT 22560 SW PINE ST. SHERWOOD OR. 97140 PHONE — 503.625.5522

PROPERTY INFORMATION

STREET LOCATION: SW SUNSET BLVD. AT SW PINEHURST DR.
TAX LOT AND MAP NO.: TL 1800 AND TL1900; MAP 2S 1 31 DB
EXISTING USE: NEIGHBORHOOD PARK
EXISTING ZONE DESIGNATION: LDR—PUD
SITE AREA: 6.19 AC.

ENGINEER / LANDSCAPE ARCHITECT / SURVEYOR

HARPER HOUF PETERSON RIGHELLIS, INC. 205 SE SPOKANE STREET, SUITE 200 PORTLAND, OR. 97202 — 503.221.1131 BEN AUSTIN, PE PROJECT MANAGER/ENGINEER SCOTT BANKER, RLA JEFFERY CREEL, RLA JOHN CAMBELL, PLS



SHEET INDEX

C1.0 - COVER SHEET C2.0 - EXISTING CONDITIONS C3.0 - OVERALL SITE PLAN

C3.1 - PLAYGROUND PLAN

C4.0 — GRADING AND PAVING PLAN C4.1 — PEDESTRIAN PATH PROFILE

C4.2 - PEDESTRIAN BRIDGE PROFILE

C4.3 - BRIDGE DETAILS

C4.4 - PARKING LOT GRADING

C4.5 — PLAYGROUND GRADING C5.0 — SITE UTILITY PLAN

C6.0 - PLAYGROUND DETAIL - STAIRS

C6.1 — PLAYGROUND DETAIL — SLIDE

C6.2 — PLAYGROUND DETAIL — ROCK WALL C6.3 — ROMTEC PAVILLION DETAIL 1 OF 3

C6.4 — ROMTEC PAVILLION DETAIL 2 OF 3 C6.5 — ROMTEC PAVILLION DETAIL 3 OF 3

C6.6 - STANDARD DETAILS

C6.7 - CITY OF SHERWOOD STANDARD DETAILS - 1 OF 3

C6.8 - CITY OF SHERWOOD STANDARD DETAILS - 2 OF 3 C6.9 - CITY OF SHERWOOD STANDARD DETAILS - 3 OF 3

C7.0 - SITE SECURITY AND I.T.

L1.0 - OVERALL PARK PLANTING - KEY MAP

L1.1 - PARK PLANTING PLAN

L1.2 - BUTTERFLY GARDEN AND EAST SIDE PLANTING PLAN

L1.3 - CWS STORMWATER SWALE PLANTING PLAN

L2.0 - LANDSCAPE DETAILS

L2.1 - LANDSCAPE DETAILS

L3.0 - IRRIGATION DEMO PLAN

L3.1 — IRRIGATION DEMO PLAN

L3.2 - IRRIGATION PLAN

L3.3 - IRRIGATION PLAN

L3.4 - IRRIGATION DETAILS

EC1 - ESC - COVER SHEET

EC3 — ESC — GRADING AND UTILITIES

EC2 - ESC - CLEARING AND DEMOLITION EC4 - ESC - DETAILS

BID SET

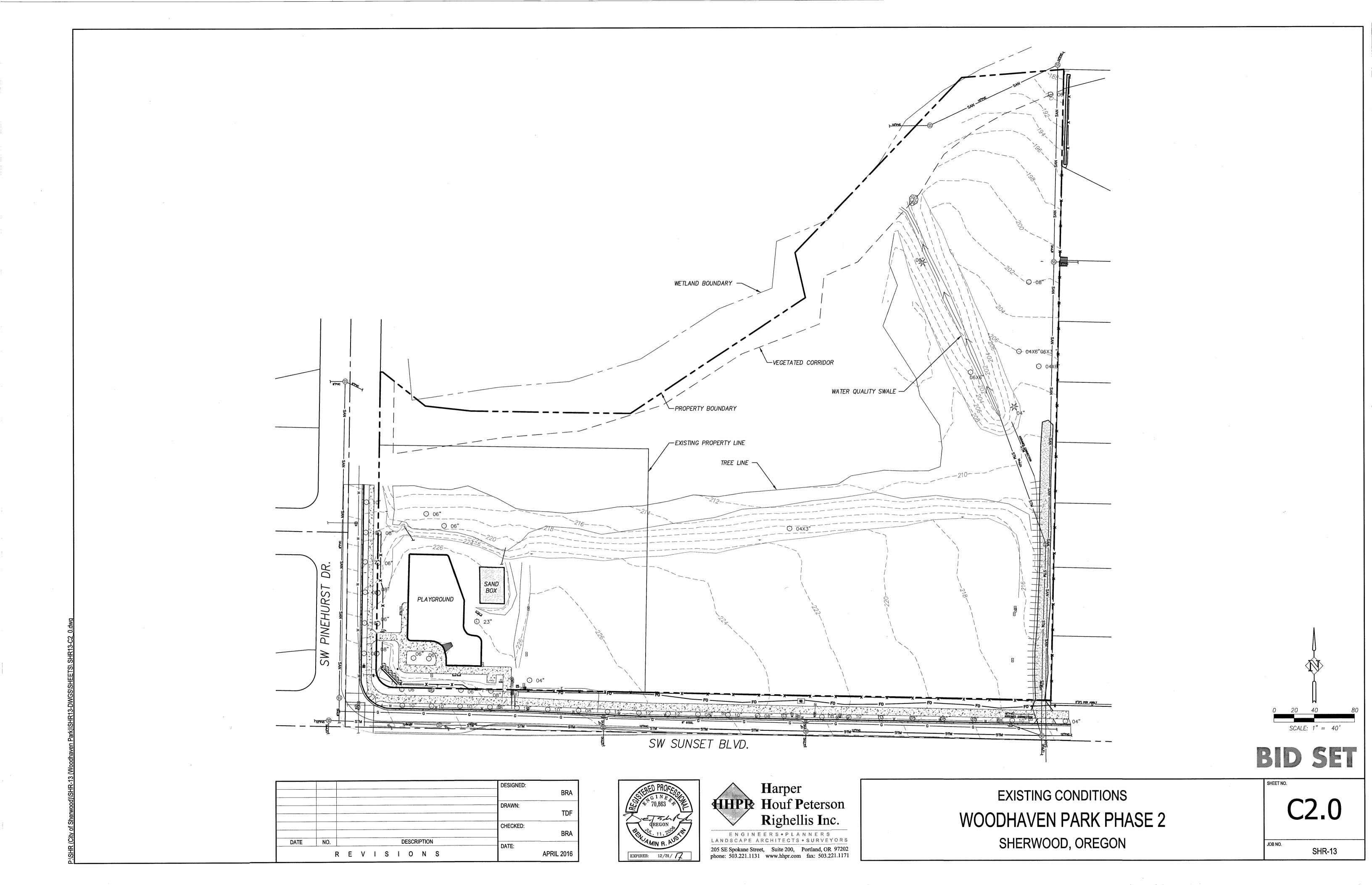
| DESIGNED: | BRA | | DRAWN: | TDF | | DATE | NO. | DESCRIPTION | DATE: | APRIL 2016

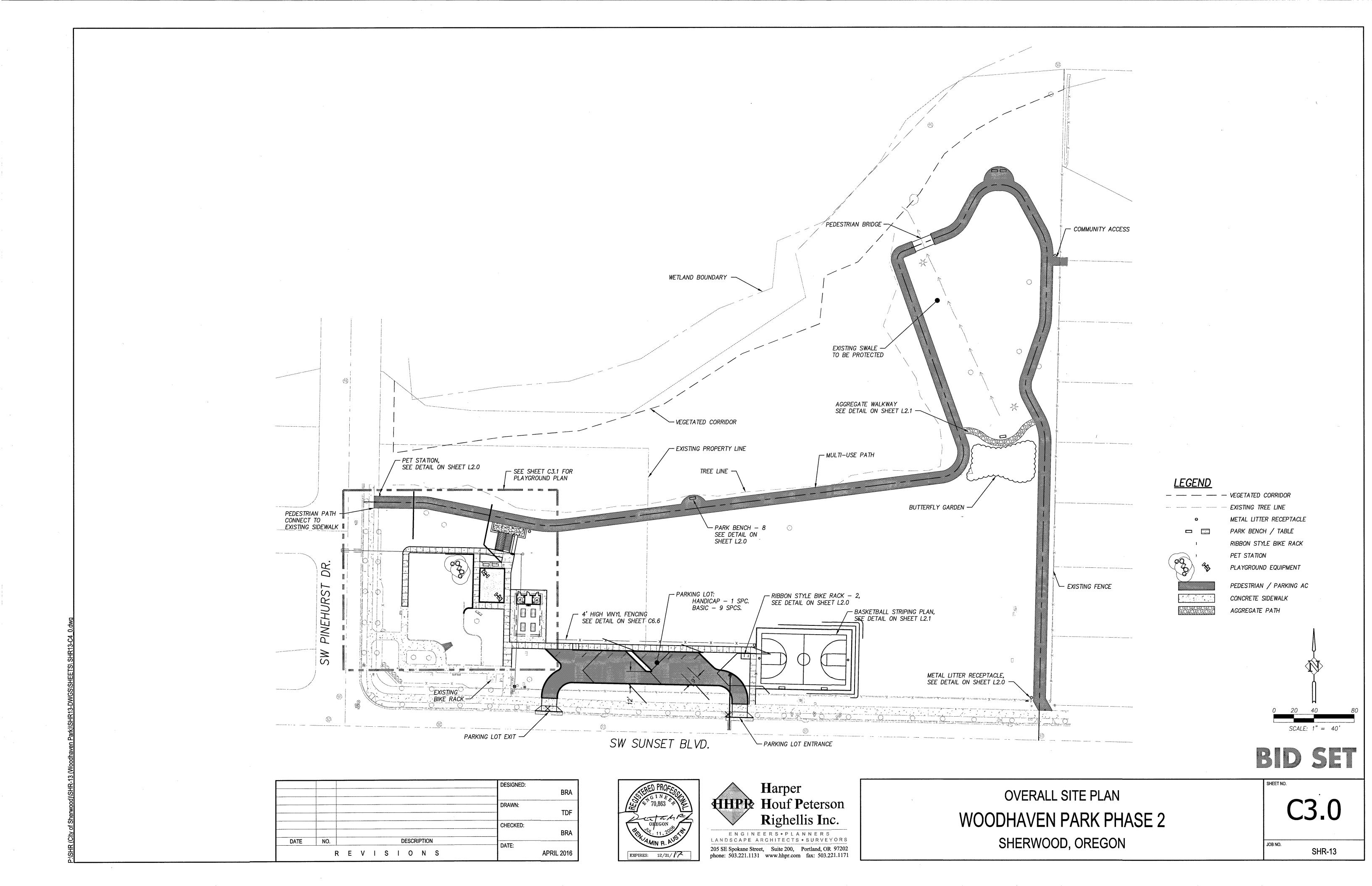


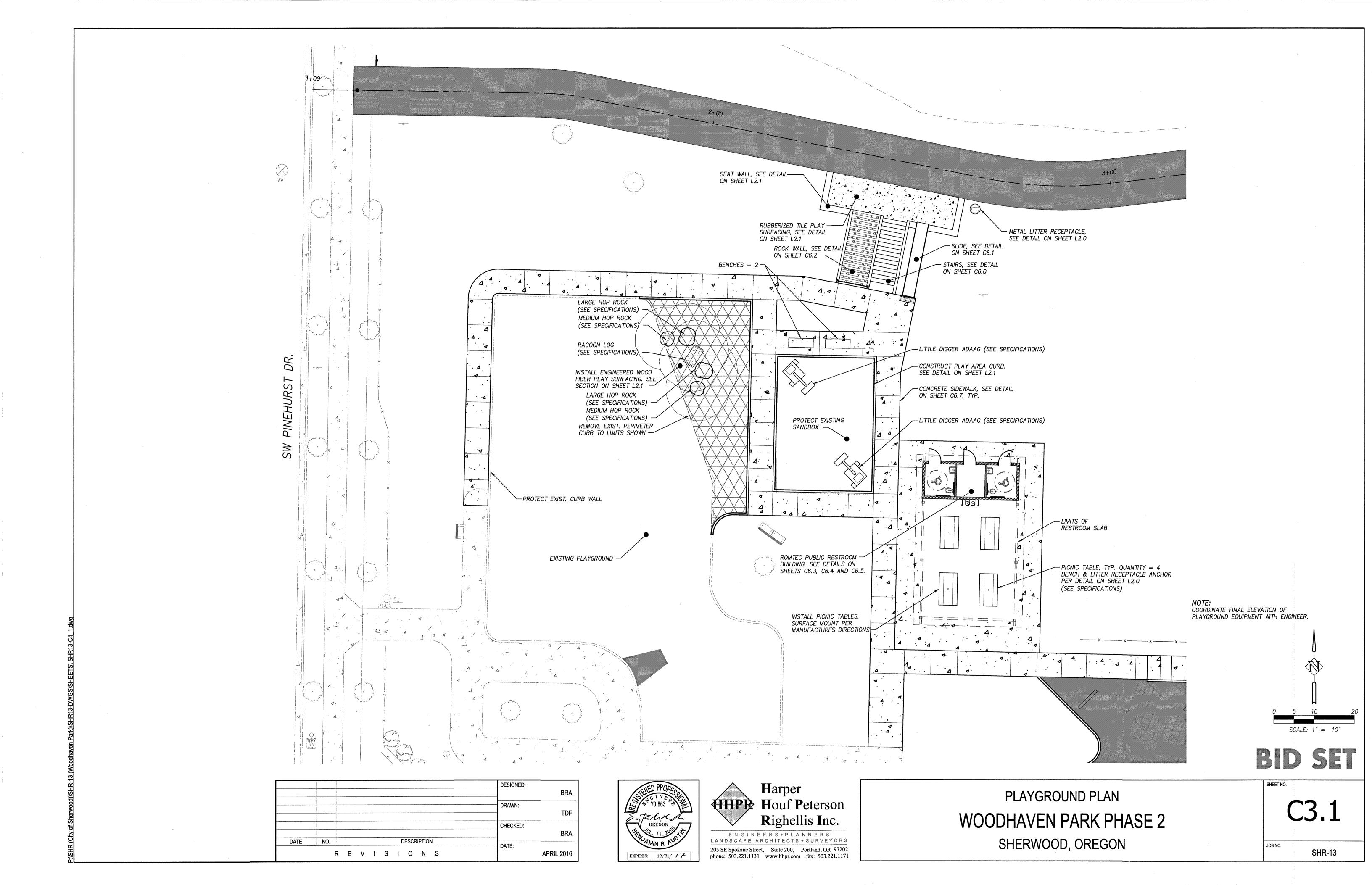


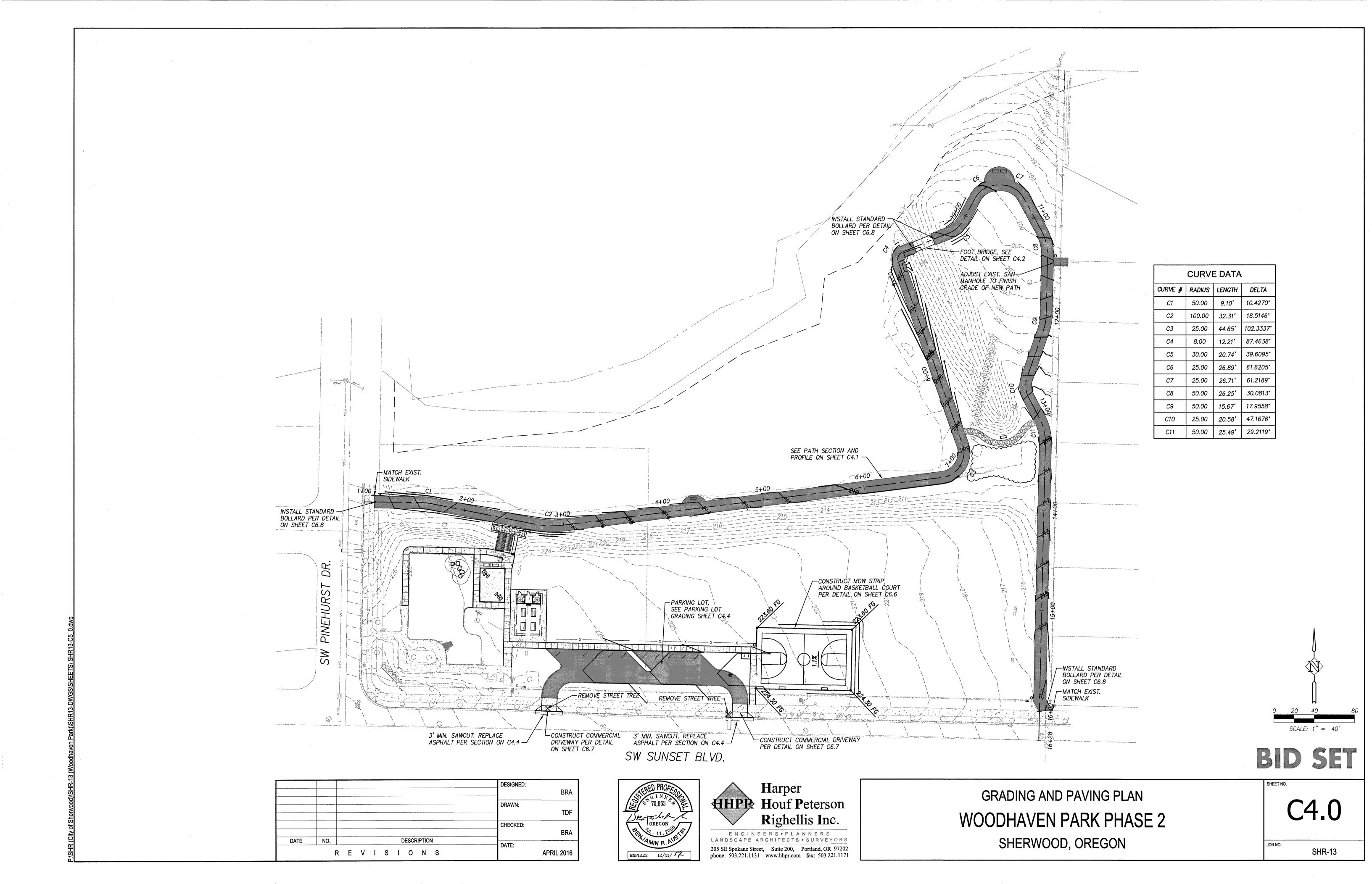
COVER SHEET
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

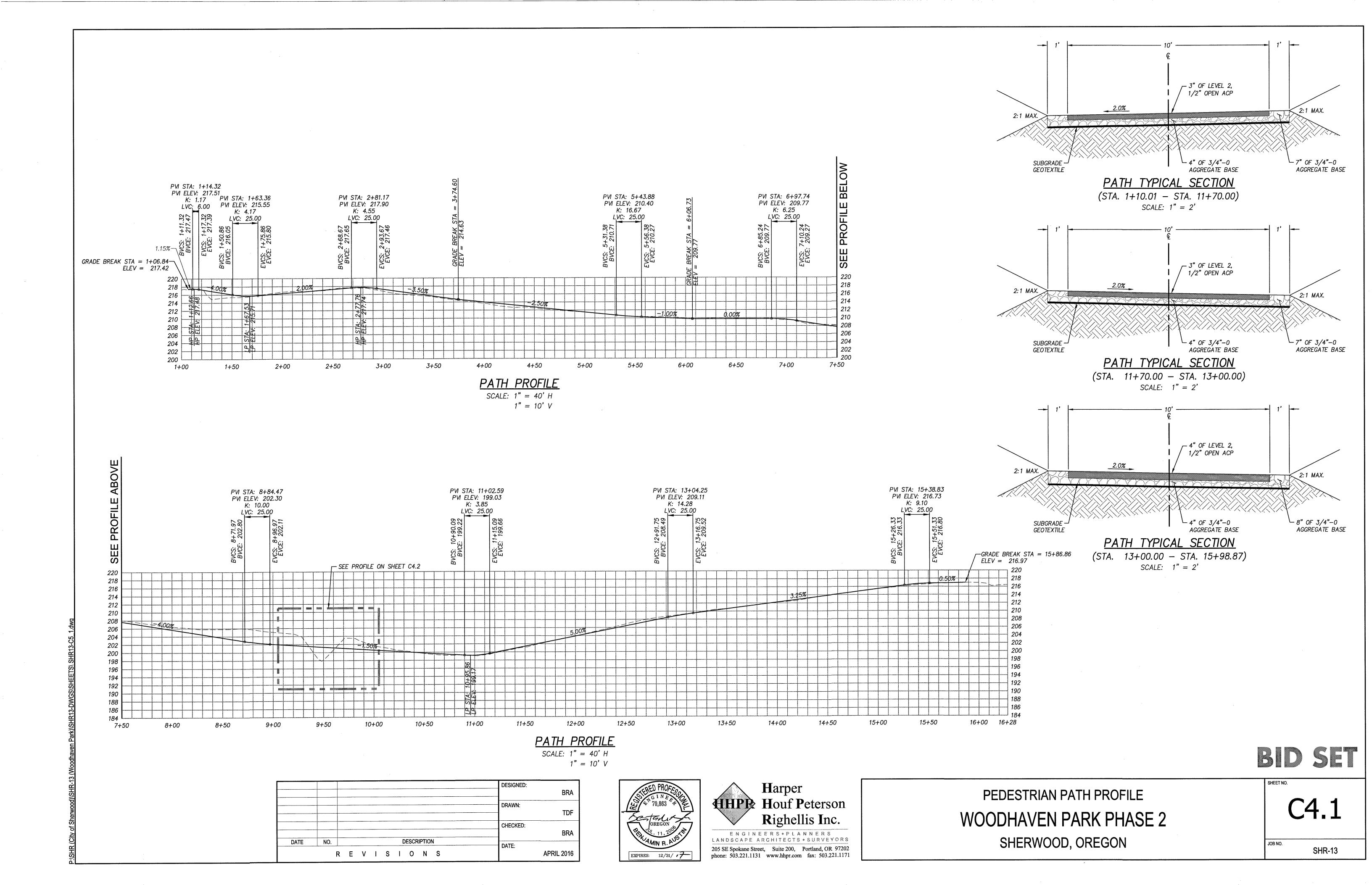
C1.0











GENERAL:

- 1. THESE STRUCTURAL NOTES SUPPLEMENT THE SPECIFICATIONS. ANY DISCREPANCY FOUND AMONG THE DRAWINGS, SPECIFICATIONS, THESE NOTES, AND ANY SITE CONDITIONS SHALL BE REPORTED IN A TIMELY MANNER TO THE ARCHITECT/ENGINEER DESIGN TEAM, WHO SHALL RESPOND TO ANY DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S OWN RISK.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH
- 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND CONSTRUCTION METHODS, TECHNIQUES, SEQUENCING, AND SAFETY REQUIRED FOR THE WORK.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL ERECTION BRACING, FORM WORK, AND TEMPORARY SHORING REQUIRED FOR THE WORK.
- 5. THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THE STRUCTURAL NOTES TO
- 6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS AND IN THE FIELD. COORDINATE LOCATIONS OF OPENINGS THROUGH FLOOR, ROOFS AND WALLS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL
- PLANS. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. 7. DETAILS SHOWN ON THE DRAWINGS ARE INTENDED TO APPLY AT ALL SIMILAR CONDITIONS AND LOCATIONS.
- 8. DO NOT SCALE INFORMATION FROM STRUCTURAL DRAWINGS.
- 9. UNLESS OTHERWISE NOTED, ALL MATERIAL AND DESIGN SPECIFICATIONS CITED HEREIN SHALL CONFORM TO THE MOST RECENTLY ADOPTED SPECIFICATION OR CODE.
- 10. ALL PRODUCTS AND MATERIALS USED BY THE CONTRACTOR SHALL BE APPLIED, PLACED, ERECTED OR INSTALLED IN
- STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. 11. ALL FEATURES OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS SUBJECT TO REVIEW BY THE ARCHITECT AND ENGINEER.

- 1. 2014 OREGON STRUCTURAL SPECIALTY CODE
- 3. ALL REFERENCE TO OTHER CODES AND STANDARDS (ACI, ASTM, ETC...) SHALL BE PER THE LATEST OR MOST CURRENT EDITION AVAILABLE.
- 4. DESIGN LOADS:

PEDESTRIAN BRIDGE DECK (LIVE LOAD). SEISMIC....

120 MPH, EXPOSURE C, Risk CATEGORY II DESIGN CATEGORY D, SITE CLASS D R=6.5, S1=0.419, Sds=0.704, Sd1=0.442

FOUNDATIONS:

1. MAXIMUM DESIGN SOIL BEARING PRESSURE = 1,500 PSF, ASSUMED

- 2. FOUNDATIONS SHALL BE FOUNDED ON FIRM, UNDISTURBED SOIL OR ON APPROVED STRUCTURAL FILL
- STRUCTURAL FILL SHALL CONSIST OF CLEAN WELL-GRADED SAND, SAND AND GRAVEL, OR CRUSHED ROCK.
- 4. THE STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN THICKNESS AND THOROUGHLY COMPACTED TO A DENSE, NON-YIELDING STATE.
- 5. STRUCTURAL FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS OBTAINED BY ASTM MODIFIED PROCTOR.
- 6. ALL FOUNDATIONS SHALL BE A MINIMUM OF 1'-6" BELOW FINAL GRADES OR 1'-0" BELOW EXISTING GRADE, WHICHEVER IS LOWER.
- 7. ALL DISTURBED SOIL SHALL BE REMOVED BY HAND OPERATION FROM FOUNDATION EXCAVATIONS TO NEAT LINES AND REPLACED WITH ENGINEERED FILL IF NECESSARY.
- 8. PLACEMENT OF ALL FILL SHALL BE OBSERVED AND TESTED FOR RELATIVE COMPACTION BY A QUALIFIED TECHNICIAN AS APPROVED BY THE ENGINEER OF RECORD.

STRUCTURAL STEEL:

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
- 2. ALL FABRICATION, ERECTION AND IDENTIFICATION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECIFICATIONS.
- 3. ALL WELDING SHALL CONFORM TO AWS SPECIFICATIONS, ALL WELDERS SHALL BE CERTIFIED UNDER AWS SPECIFICATIONS.
- 4. WELDS SHALL BE MADE WITH E70 SERIES ELECTRODES UNLESS OTHERWISE NOTED. WELD TESTING AND INSPECTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE AWS D1.1 AND AISC.
- 5. ALL BOLTED CONNECTIONS SHALL BE MADE WITH MACHINE BOLTS (M.B.) CONFORMING TO ASTM A307.
- 6. ALL STEEL EXPOSED TO WEATHER, MOISTURE, SOIL, OR AS NOTED SHALL BE HOT DIP GALVANIZED PER ASTM A-123 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.

GLUE LAMINATED MEMBERS:

- 1. ALL GLUE LAMINATED TIMBER BEAMS SHALL BE DOUGLAS FIR GRADE 24F-V4 AT ALL SIMPLE SPAN BEAMS AND GRADE 24F-V8 AT ALL CANTILEVER AND CONTINUOUS SPAN BEAMS, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- 2. ALL GLUE LAMINATED TIMBER SHALL BE FABRICATED IN ACCORDANCE WITH AITC 117 MANUFACTURING, USING DF LUMBER AND WATERPROOFING ADHESIVE. EACH MEMBER SHALL BEAR AN AITC IDENTIFICATION MARK AND BE
- ACCOMPANIED BY AN AITC CERTIFICATE OF CONFORMANCE.
- GLUE LAMINATED TIMBER BEAMS SHALL HAVE CAMBER AS INDICATED ON THE DRAWINGS. 4. ALL GLUE LAMINATED MEMBERS SHALL BE NOTCHED, SHAPED AND FINISHED AS PER PLANS AND SPECIFICATIONS.
- SEE SPECIFICATIONS FOR FINISH AND PROTECTION.

- 1. ALL SAWN LUMBER SHALL BE S4S, GRADED IN ACCORDANCE WITH WCLIB RULES #17, OF THE FOLLOWING GRADES:
 - STUD, PLATES, HEADERS, BLOCKING 2x & 4x BEAMS
- = DF-L No. 2 = DF-L No. 2

= DF-L No. 1

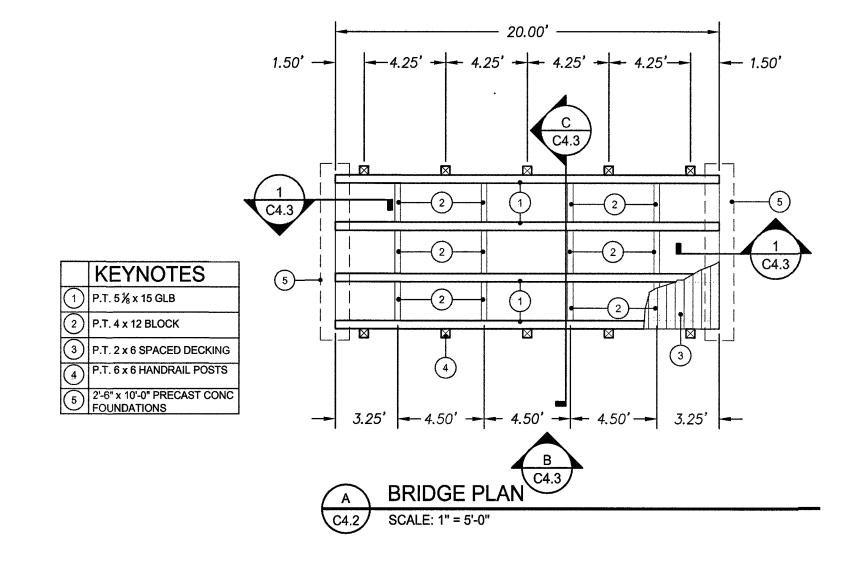
- 6x BEAMS, POSTS 2. ALL 2x LUMBER SHALL BE S-DRY, U.N.O.
- 3. PROVIDE PRESSURE TREATED (P.T.) LUMBER AT ALL MEMBERS IN CONTRACT WITH CONCRETE OR MASONRY.

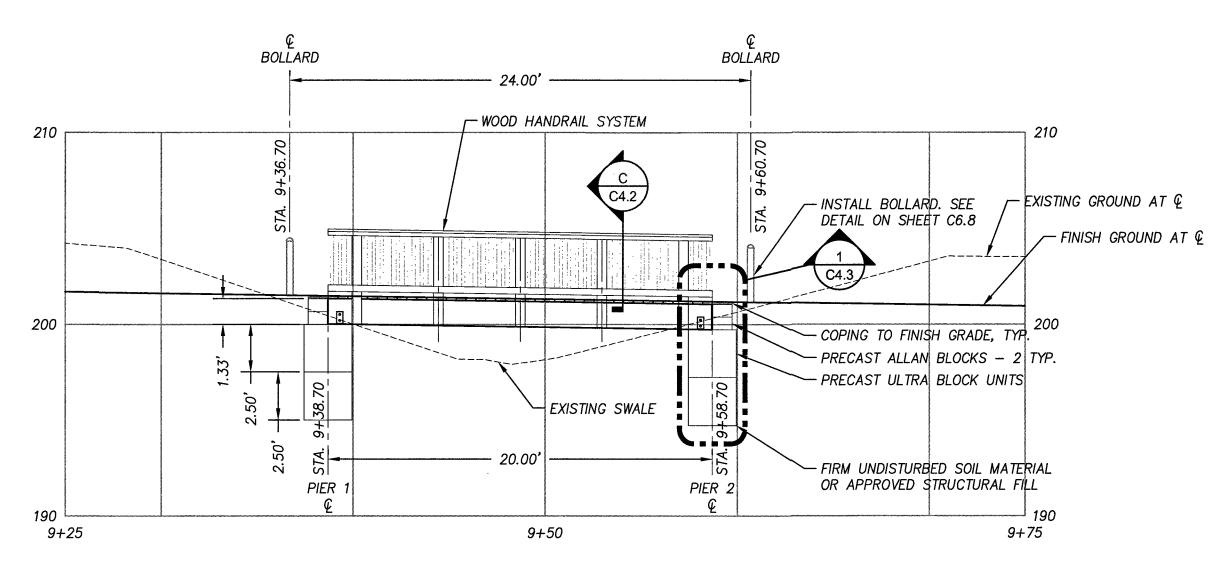
- PRESSURE TREATED (P.T.) LUMBER: 1. PROVIDE PRESSURE TREATED (P.T.) LUMBER AT ALL MEMBERS IN CONTACT WITH CONCRETE OR MASONRY.
- 2. PROVIDE PRESSURE TREATED (P.T.) LUMBER AT ALL MEMBERS PERMANENTLY EXPOSED TO OPEN AIR CONDITIONS.
- 3. PRESSURE TREATED LUMBER THAT IS CUT OR BORED SHALL BE TREATED TO RESIST ROT AND DETERIORATION. 4. ALL CONNECTORS AND FASTENERS SECURED TO PRESSURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED.

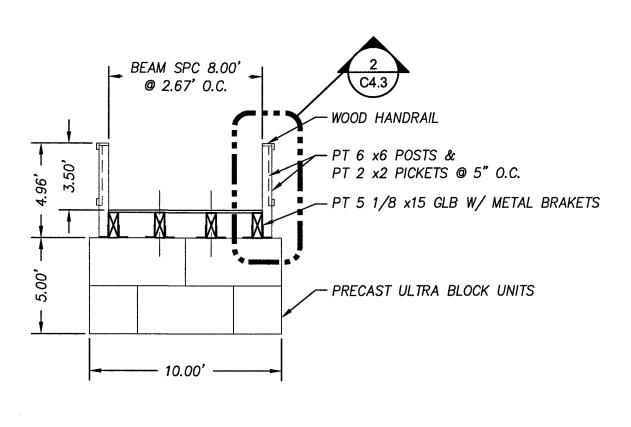
- 1. MINIMUM FRAMING SCREWS SHALL CONFORM TO AISI SPECIFICATIONS & IBC / OSSC.
- 2. ALL SCREW ATTACHMENTS SHALL PENETRATE MATERIAL 3 THREADS MINIMUM.

NAILS & FASTENERS:

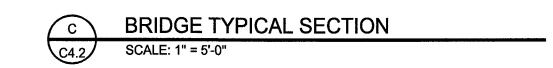
- 1. NAILING INDICATED ON PLANS AND DETAILS ARE "COMMON" NAILS. MINIMUM FRAMING NAILING SHALL CONFORM TO 2009 IBC TABLE 2304.9.1. SEE DETAILS FOR ADDITIONAL TYPICAL NAILING REQUIREMENTS.
- SUBSTITUTION OF NAILS OTHER THAN "COMMON" IS NOT PERMITTED WITHOUT PRIOR APPROVAL.
- 2. POWER DRIVEN NAILS OTHER THAN "COMMON" IS NOT PERMITTED WITHOUT PRIOR APPROVAL. 3. ALL BOLTED CONNECTIONS SHALL BE MADE WITH MACHINE BOLTS (M.B.) CONFORMING TO ASTM A307. ALL BOLTS
- AND LAGS SHALL BE INSTALLED WITH STANDARD WROUGHT WASHERS, UNLESS NOTED OTHERWISE.
- . JOIST HANGERS, HOLDOWNS, AND OTHER FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON COMPANY. ALL HARDWARE IS TO BE FASTENED PER MANUFACTURER'S SPECIFICATIONS, U.N.O.
- SILLS AT WALLS SHALL BE BOLTED TO CONCRETE WITH SIMPSON TITEN HD 1/2" (4" CONC. EMBED) WITH 1/4" x 3" x 3" GALVANIZED PLATE WASHER BETWEEN SILL PLATE AND NUT AT 4'-0" O.C. MAXIMUM WITHIN 1'-0" OF SILL PLATE ENDS, CORNERS OR SPLICES, UNLESS DETAILED OTHERWISE.

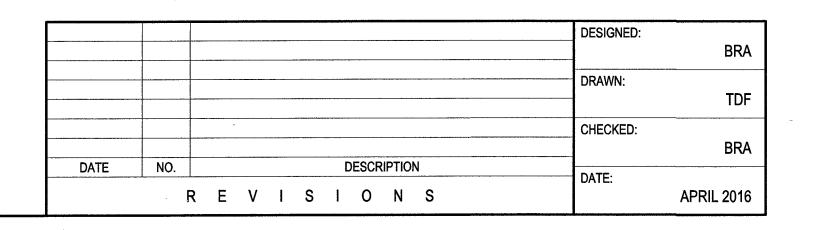






PEDESTRIAN BRIDGE PROFILE SCALE: 1" = 5'-0"









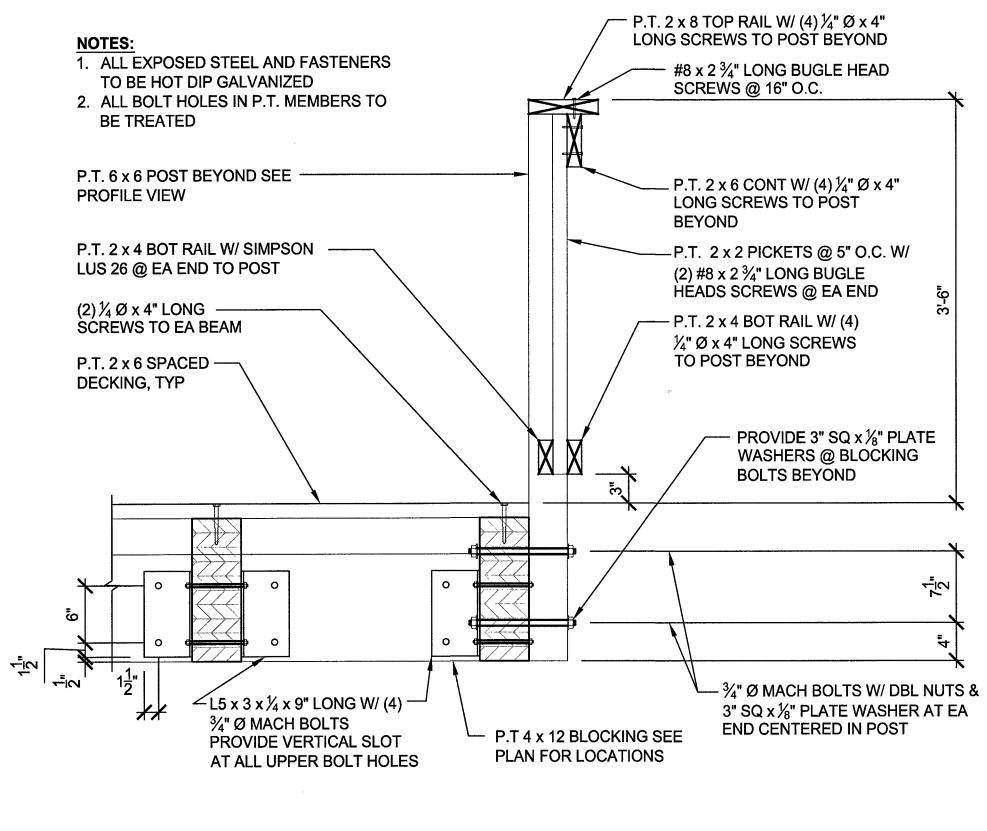
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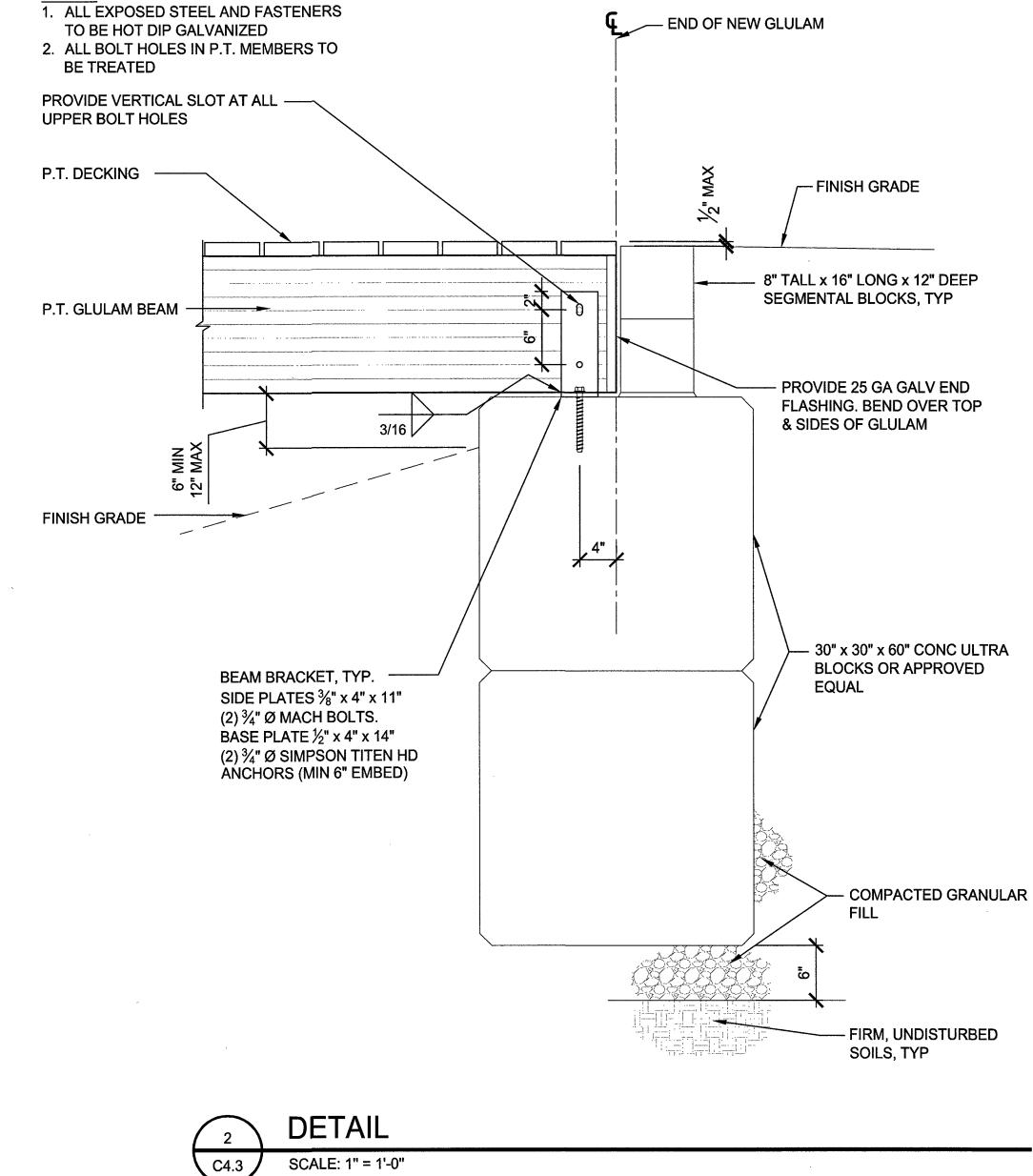
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

PEDESTRIAN BRIDGE PROFILE WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

BID SET

JOB NO. SHR-13





DETAIL SCALE: 1" = 1'-0"

DESIGNED: BRA CHECKED: DATE DESCRIPTION R E V I S I O N S **APRIL 2016**



Harper HHPR Houf Peterson Righellis Inc.

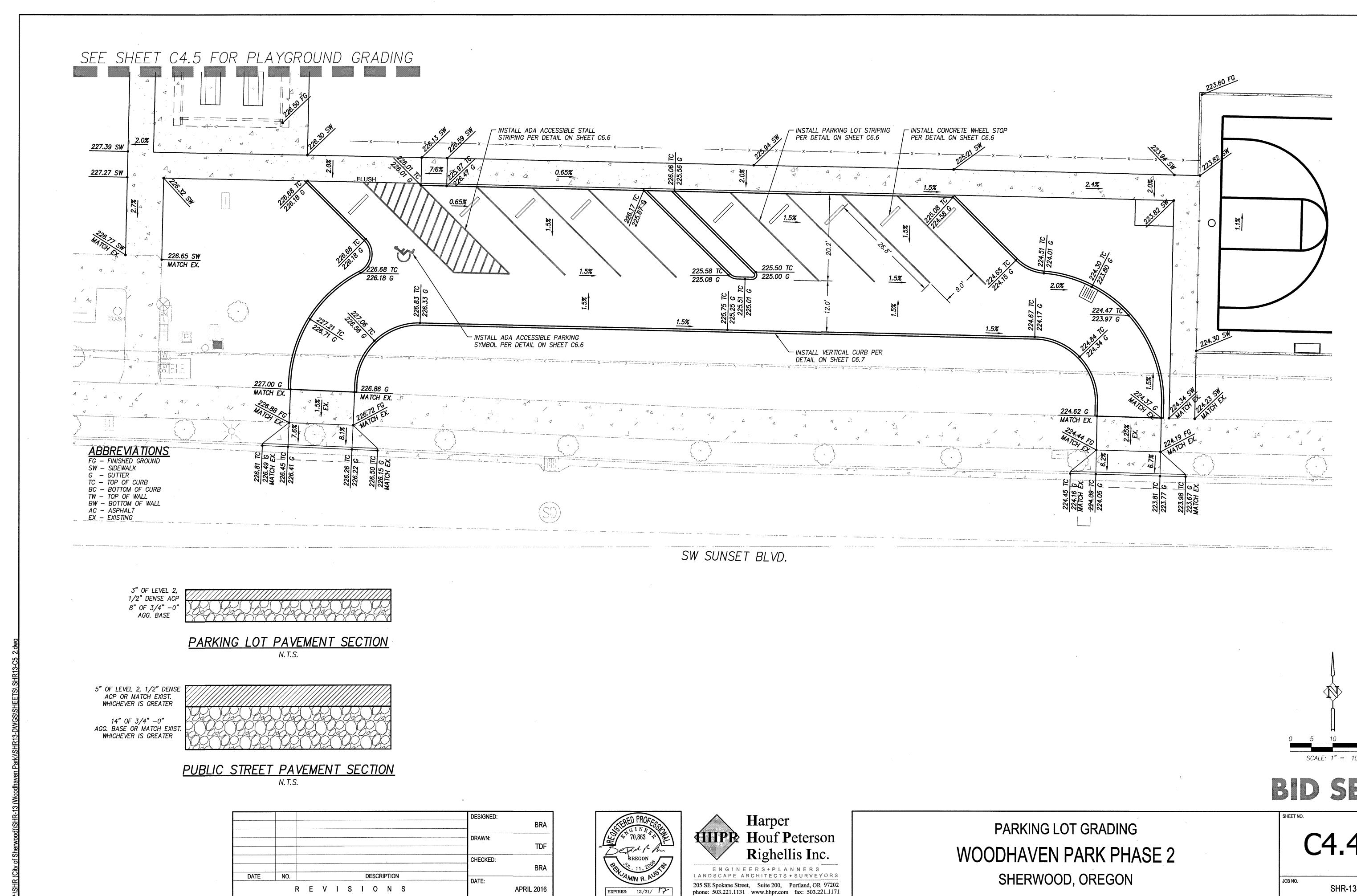
ENGINEERS + PLANNERS
LANDSCAPE ARCHITECTS + SURVEYORS 205 SE Spokane Street, Suite 200, Portland, OR 97202 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

BID SET

BRIDGE DETAILS WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

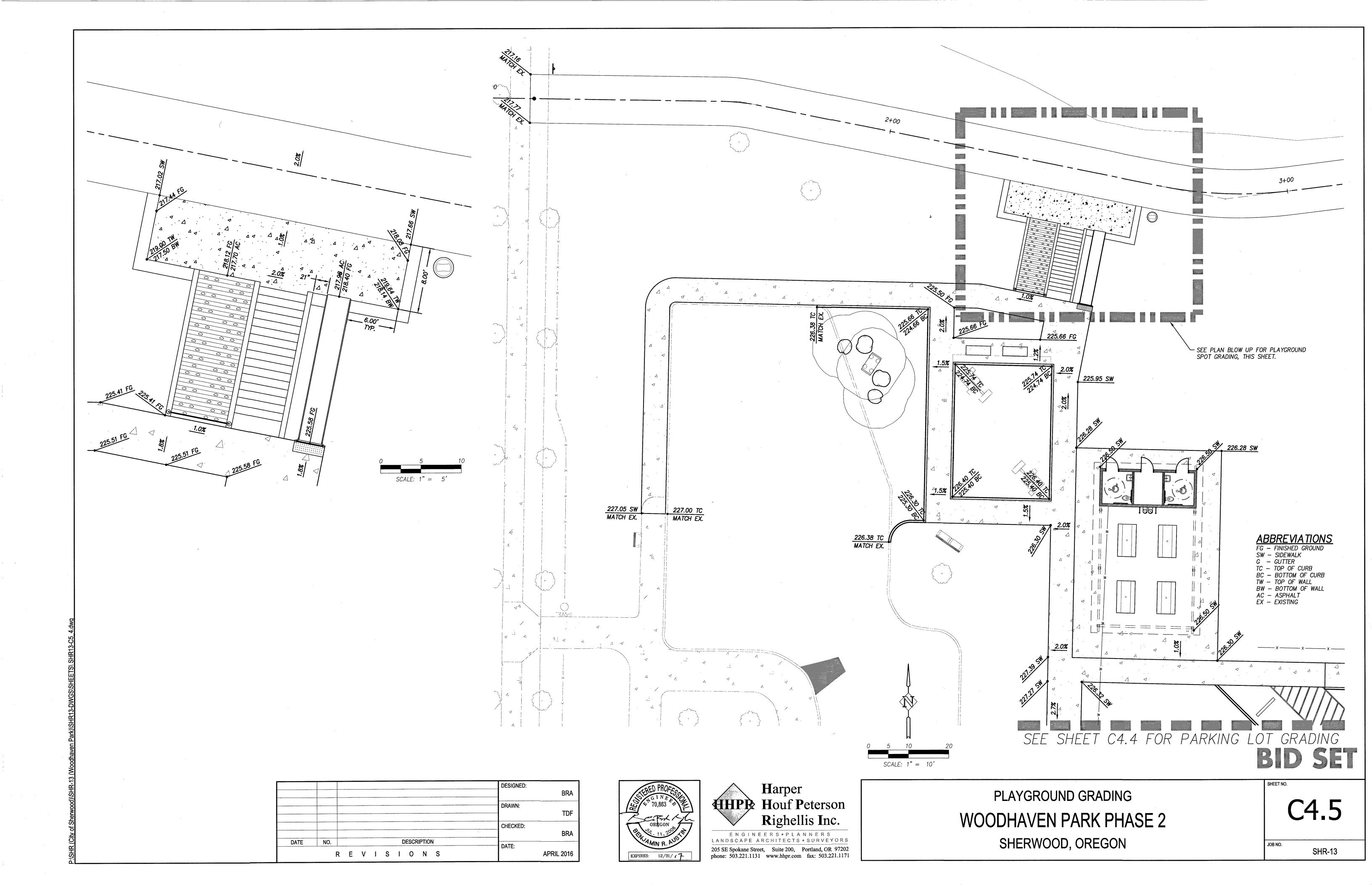
C4.3

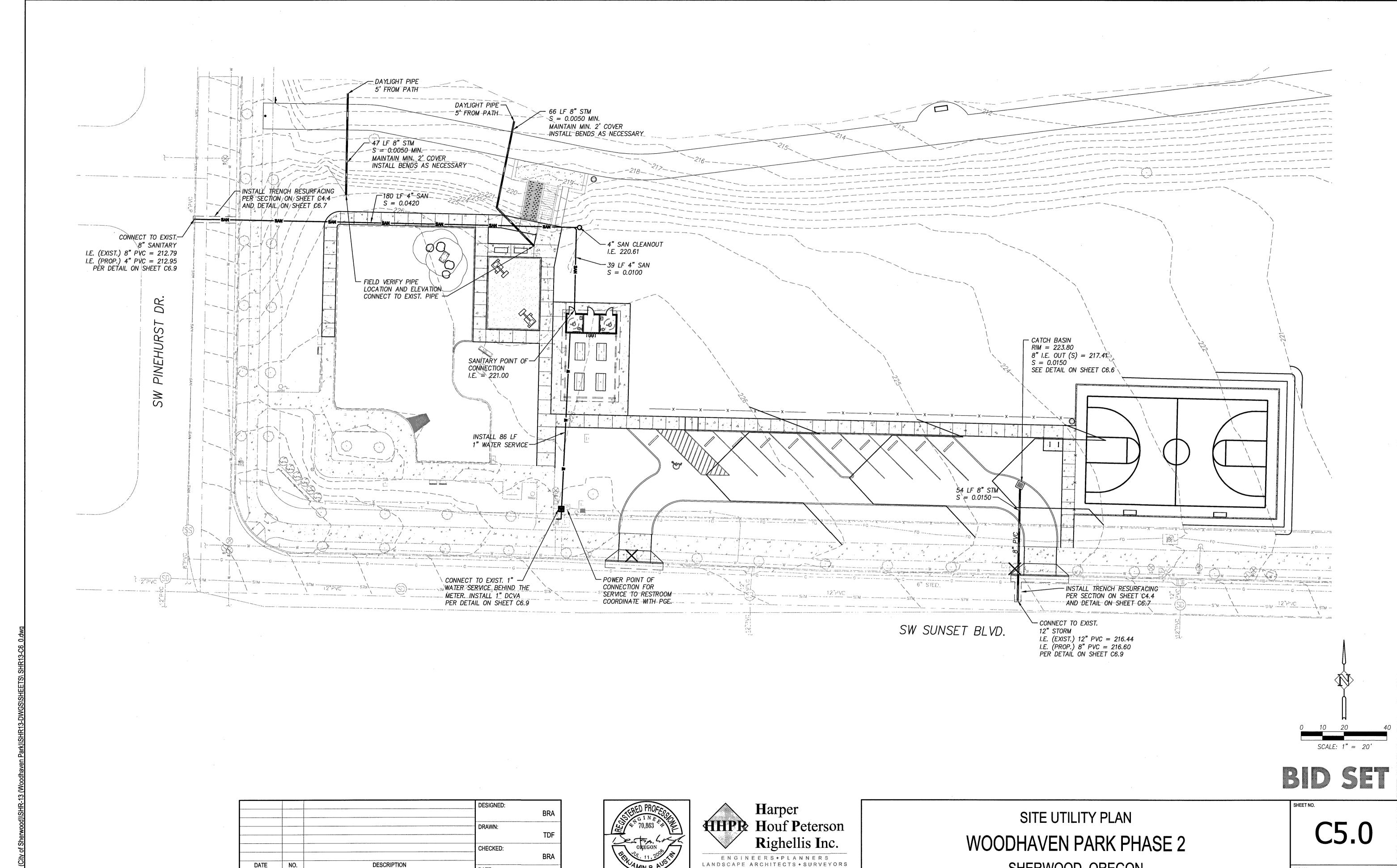
JOB NO. SHR-13



R E V I S I O N S

APRIL 2016





205 SE Spokane Street, Suite 200, Portland, OR 97202 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

DATE

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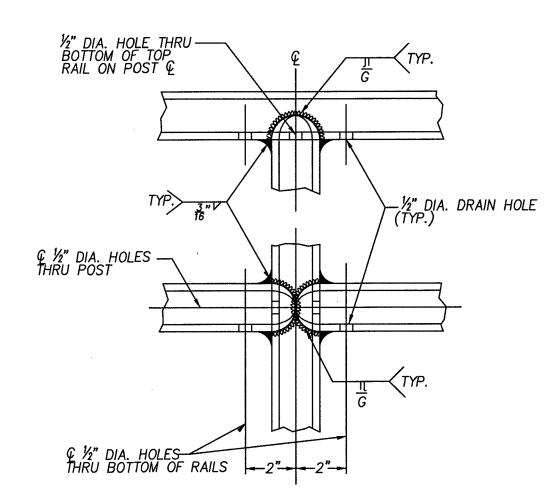
APRIL 2016

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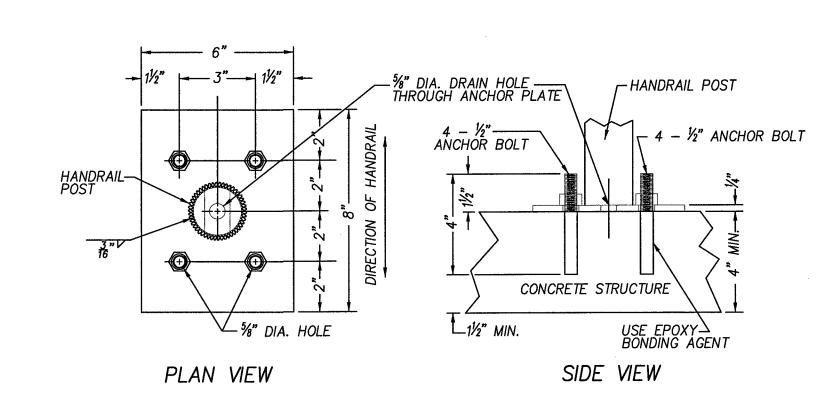
SHERWOOD, OREGON

SHR-13

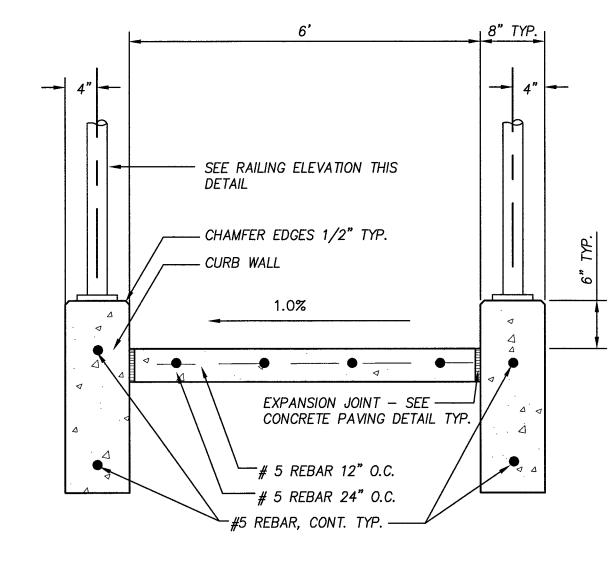
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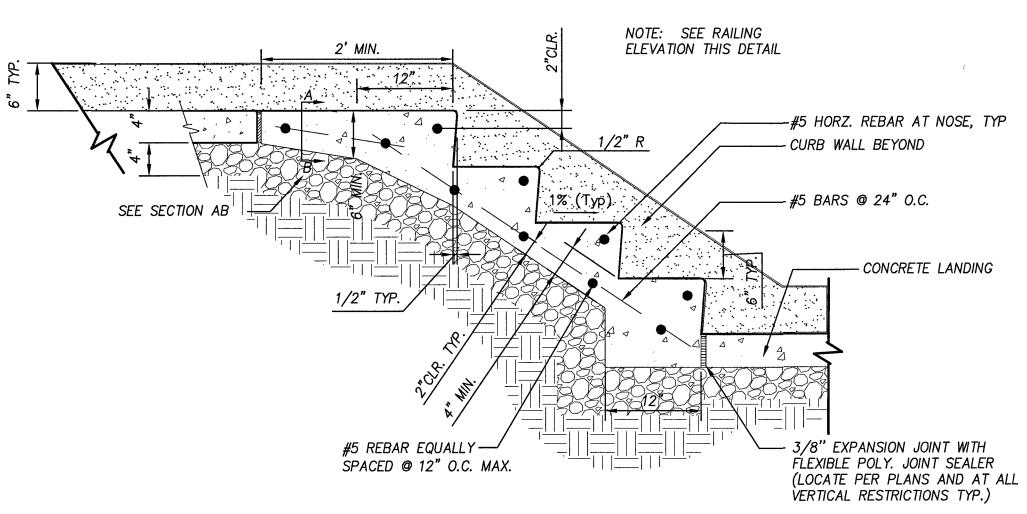
WELD DETAILS FOR STEEL PIPE N.T.S.



WELD DETAILS FOR STEEL PIPE N.T.S.



SECTION AB



SECTION

STAIR AND HANDRAIL DETAIL

(1.) ALL PIPE SHALL BE SCH.40 STEEL PIPE.

(2.) GRIND ALL WELDED JOINTS SMOOTH.

(3.) HOT—DIP GALVANIZE ALL PARTS AFTER FABRICATION. (4.) PIPE SHALL FOLLOW ALIGNMENT OF STAIR NOSINGS.

(5.) PROVIDE SHOP DRAWINGS BEFORE FABRICATION. (6.) SEE ANCHOR PLATE DETAIL FOR POST CONNECTION TO CONCRETE.

(7.) STEPS IN FLIGHT MUST HAVE UNIFORM TREAD RUNS AND

UNIFORM RISER HEIGHTS.

(8.) TREADS SHALL BE 11"MIN, 12"MAX. RISERS SHALL BE 5"MIN, 7"MAX.

(9.) LANDINGS BETWEEN FLIGHTS OF STEPS MUST HAVE SAME WIDTH AS STEPS AND A MIN LENGTH OF 4'-0".

(10.) FLIGHTS OF 4 OR MORE STEPS SHALL HAVE HANDRAILS ON BOTH SIDES.

(11) HANDRAILS SHALL BE CONTINUOUS ACROSS LANDINGS BETWEEN FLIGHTS OF STEPS. 12) TREAD SLOPES OUTWARD AT 1%.

(13) STEP WIDTH SHALL MATCH WIDTH OF EXISTING WALK, BUT SHALL BE NO LESS THAN 2'-6"WIDE (14) HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS

(15) STAIR NOSING AND TREADS SHALL HAVE A SLIP RESISTANT SURFACE. (16) STAIRS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE 2009 OREGON

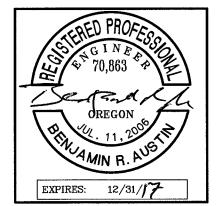
STRUCTUAL SPECIALTY CODE.

_11/4" DIAMETER STEEL PIPE 1'-0" --- CURB WALL BEYOND

HANDRAIL ELEVATION

N.T.S.

DESIGNED: BRA CHECKED: DESCRIPTION DATE NO. **APRIL 2016** REVISIONS





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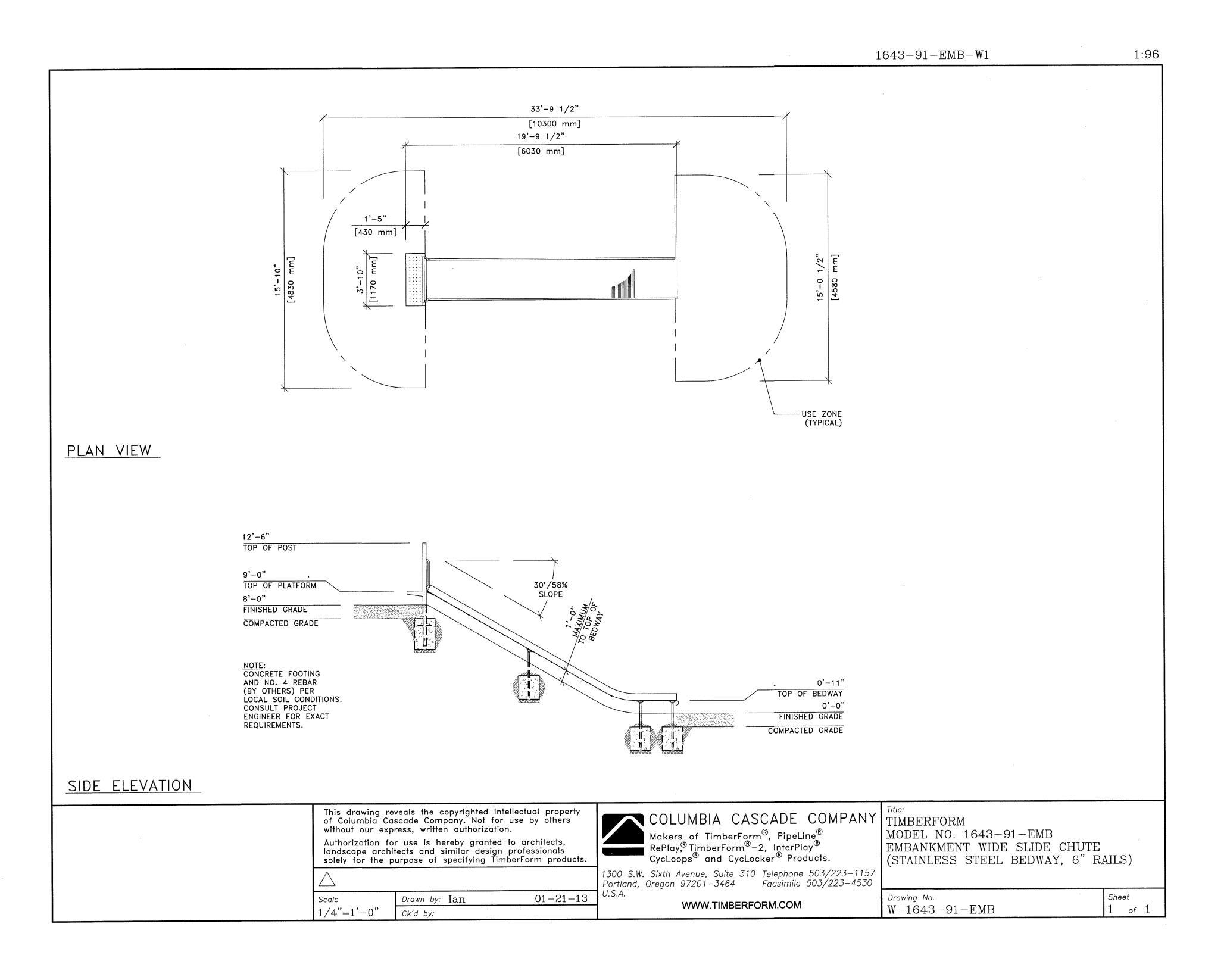
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

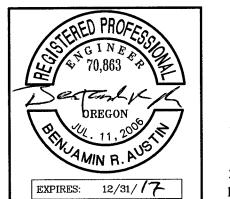
PLAYGROUND DETAIL - STAIRS WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

BID SET

JOB NO.

C6.0





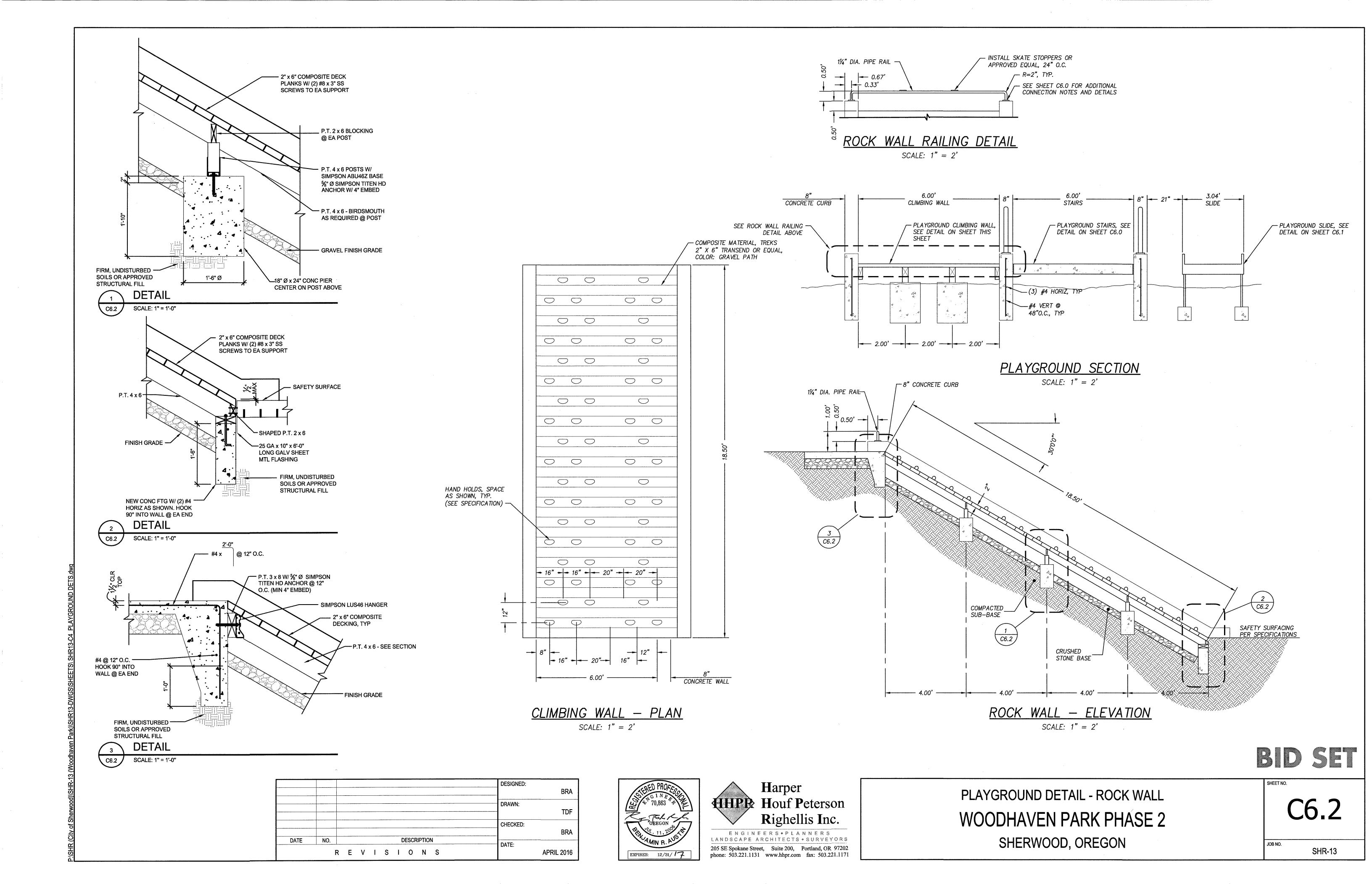


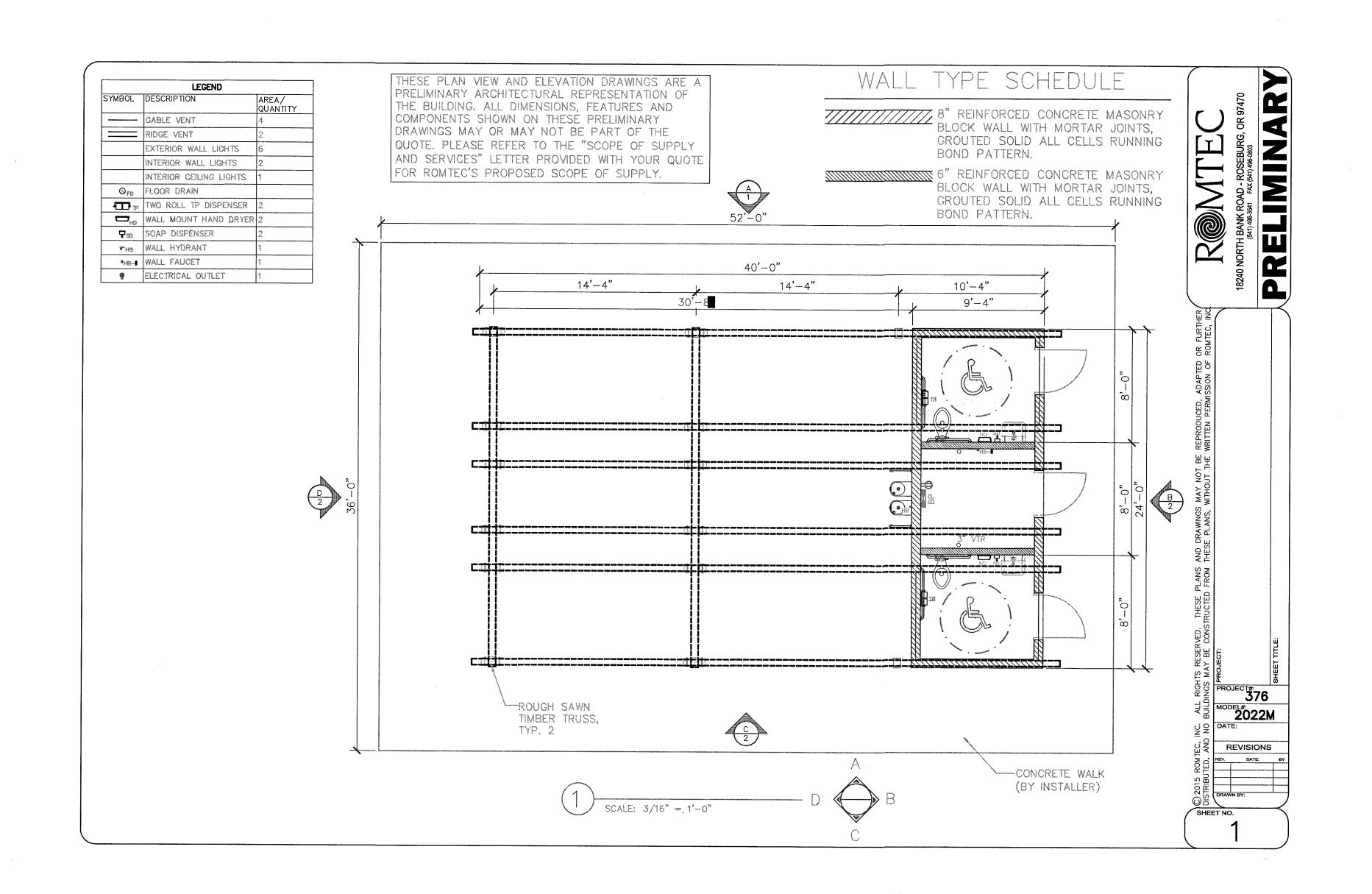
PLAYGROUND DETAIL - SLIDE
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

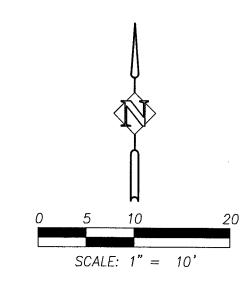
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C6.

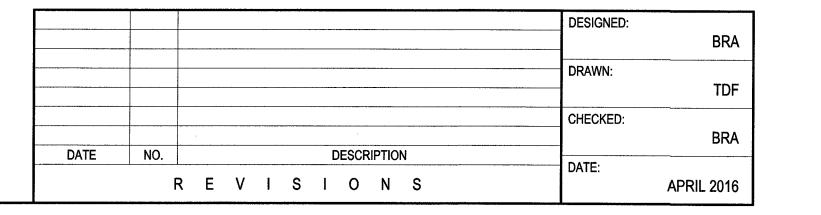
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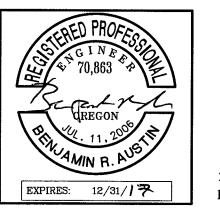






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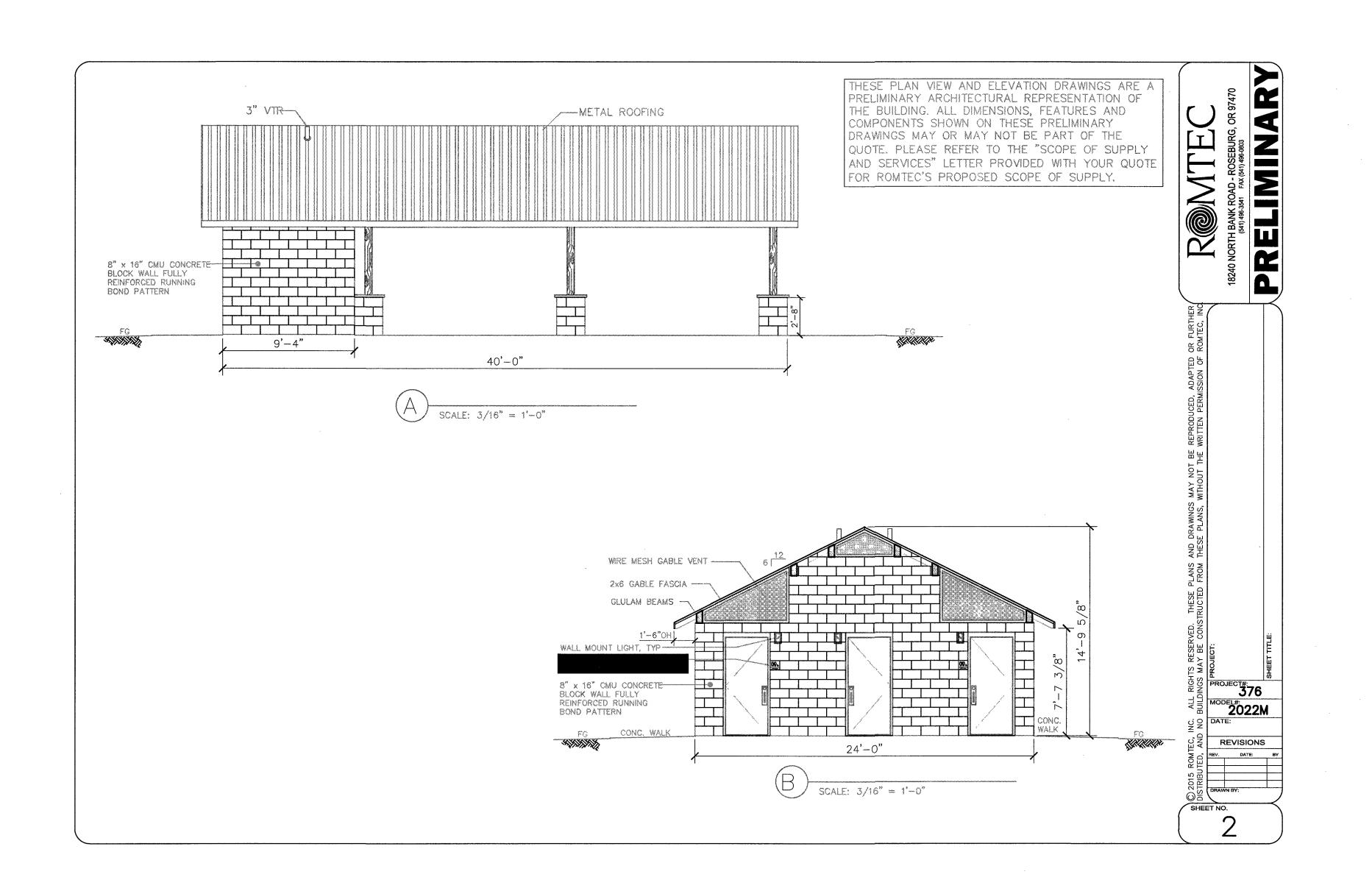




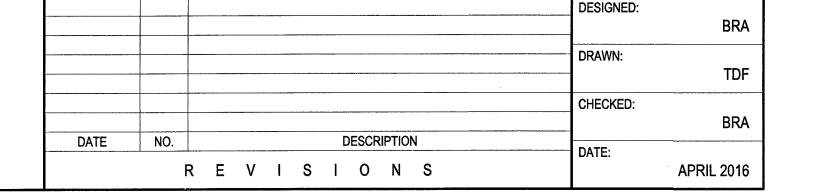


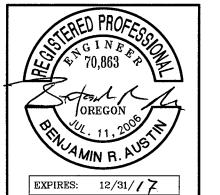
ROMTEC PAVILLION DETAIL 1 OF 3
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

C6.3



BID SET

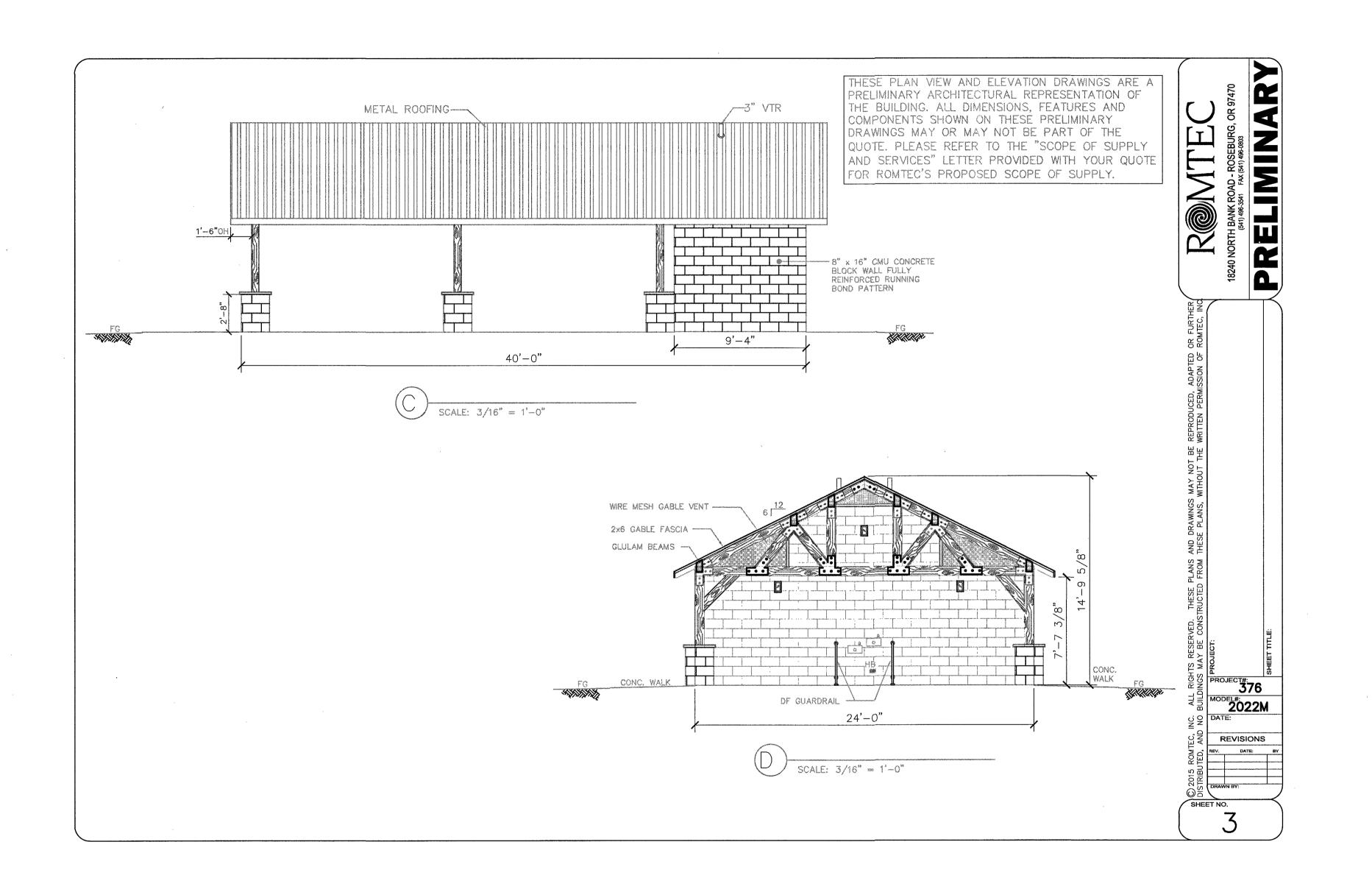


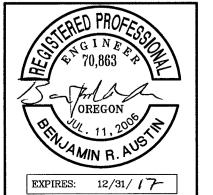




ROMTEC PAVILLION DETAIL 2 OF 3
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

C6.4







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LANDSCAPE ARCHITECTS * SURVEYORS

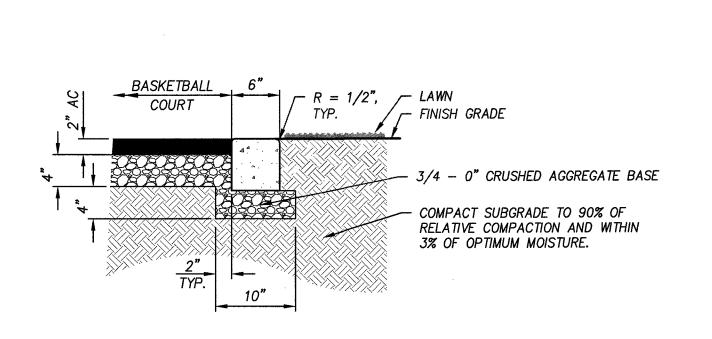
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BID SET

ROMTEC PAVILLION DETAIL 3 OF 3
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

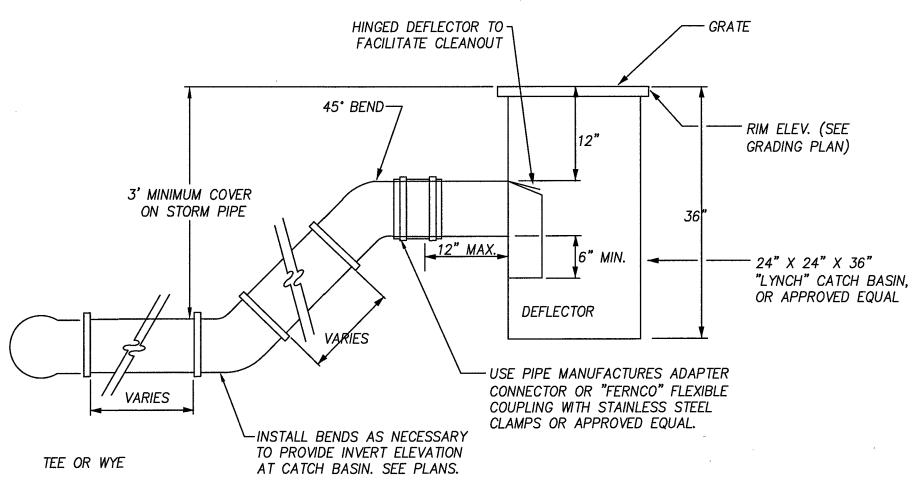
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JOB NO.

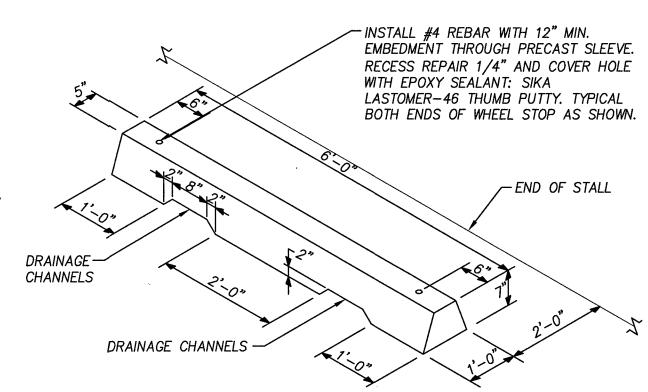


1. PROVIDE WEAKENED PLANE JOINTS 1" DEEP AT 5'-0" O.C. PROVIDE EXPANSION JOINTS AT 10'-0" INTERVALS AND WHERE JOINS CONCRETE WALK.

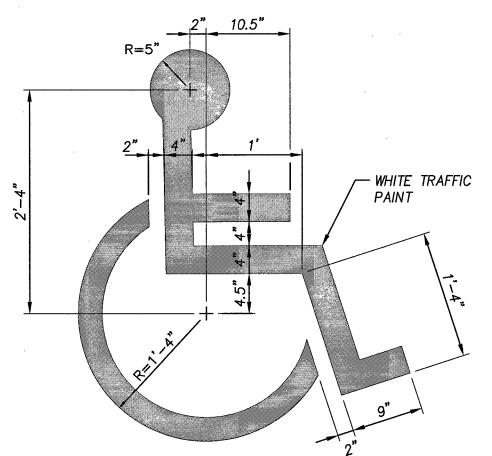
CONCRETE MOW STRIP



<u>CATCH BASIN - LYNCH</u>



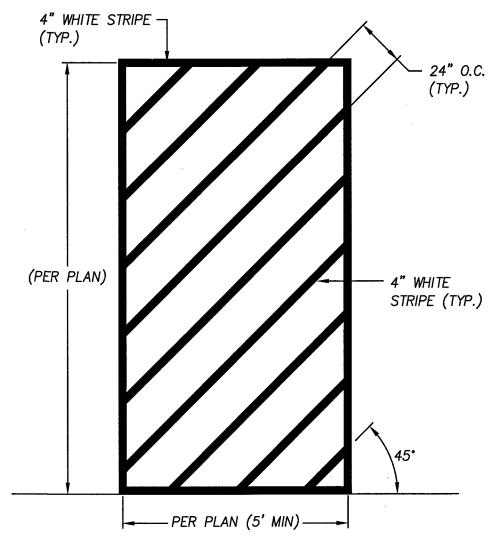
PRECAST CONCRETE WHEEL STOP



1. SYMBOL AND PAINT SHALL MEET CURRENT A.D.A. ACCESSIBILITY

GUIDELINE REQUIREMENTS. 2. SYMBOL SHALL HAVE A BLUE BACKGROUND MEETING CURRENT A.D.A. ACCESSIBILITY GUIDELINE REQUIREMENTS.

ACCESSIBLE PARKING SYMBOL



STRIPING NOTES:

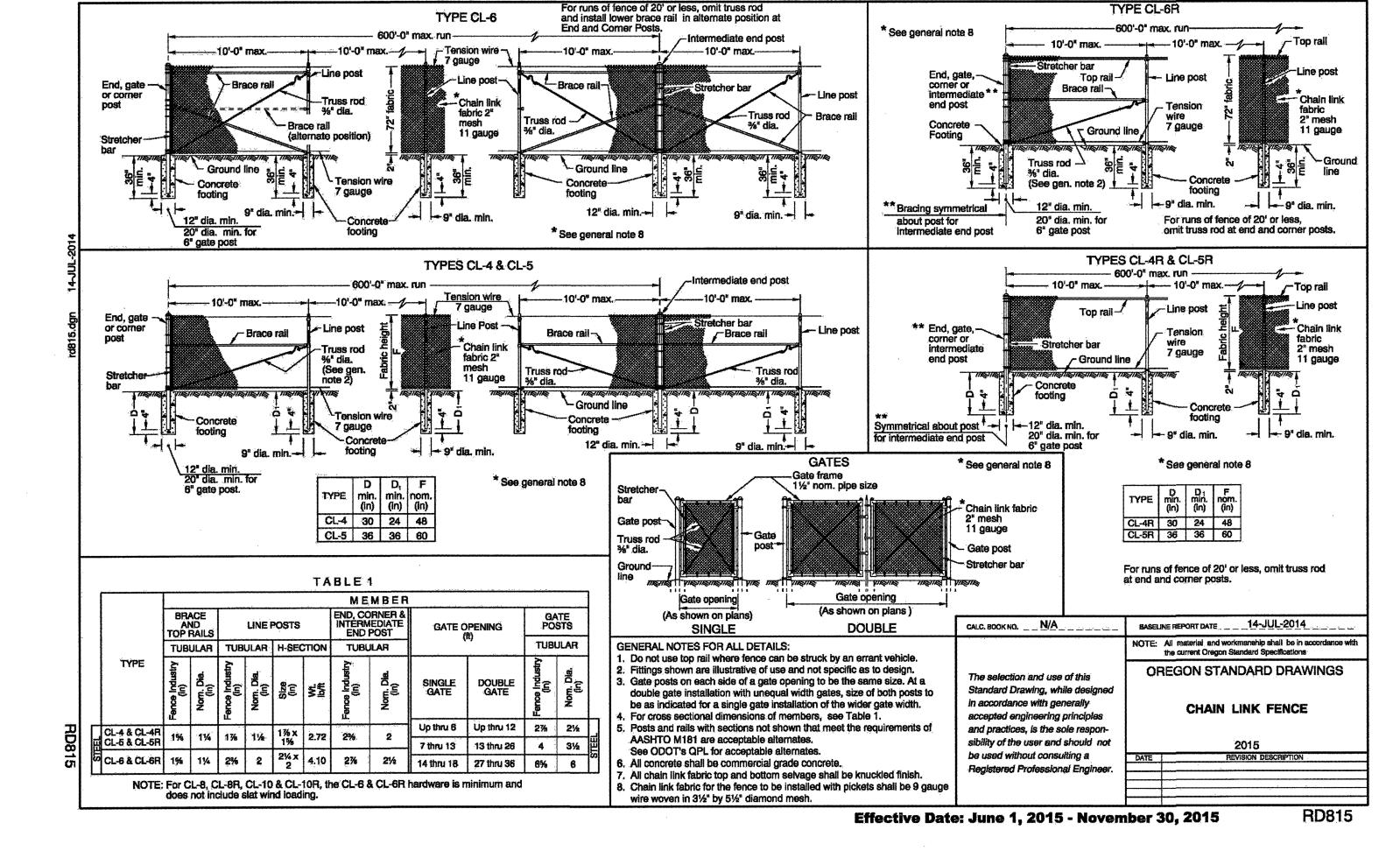
ALL PARKING LOT STRIPING SHALL BE PAINT.

TRAFFIC MARKING PAINT SHALL BE INDUSTRY STANDARD: ASSHTO M-248, TYPE 3F

ACCEPTABLE TRAFFIC PAINTS:

FULLER O'BRIEN: TRAFFIC LINE PAINT, 382-12 GENERAL: TRU-TEST SUPREME ZONE MARKING PAINT, 1010 WHITE AND 1012 YELLOW PPG INDUSTRIES: PITTSBURG TRAFFIC AND ZONE MARKING PAINT 22 LINE, WHITE AND YELLOW RODDA: TRAFFIC PAINT, WHITE 671 AND YELLOW 670 SHERWIN WILLIAMS: WHITE B29 W1 AND YELLOW B29 Y2

ACCESSIBLE STALL STRIPING



DESIGNED: BRA DRAWN: TDF CHECKED: **BRA** DESCRIPTION DATE NO. REVISIONS **APRIL 2016**



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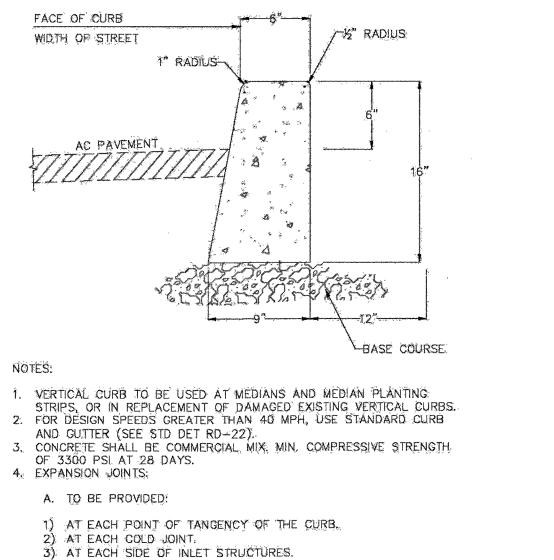
TYPE CL-6R

STANDARD DETAILS WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

BID SET

C6.6

JOB NO.



4) AT EACH END OF DRIVEWAYS.

4. CONTRACTION JOINTS:

WHICHEVER IS GREATER.

Any alteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings.

City of

Sherwood

5) AT LOCATIONS NECESSARY TO LIMIT SPACING TO 45 FEET.

5. BASE ROCK: 34"-0", COMPACTED TO 95% MAX DENSITY, BASE ROCK

STANDARD DRAWING TITLE

STANDARD VERTICAL CURB

SCALE

N.T.S.

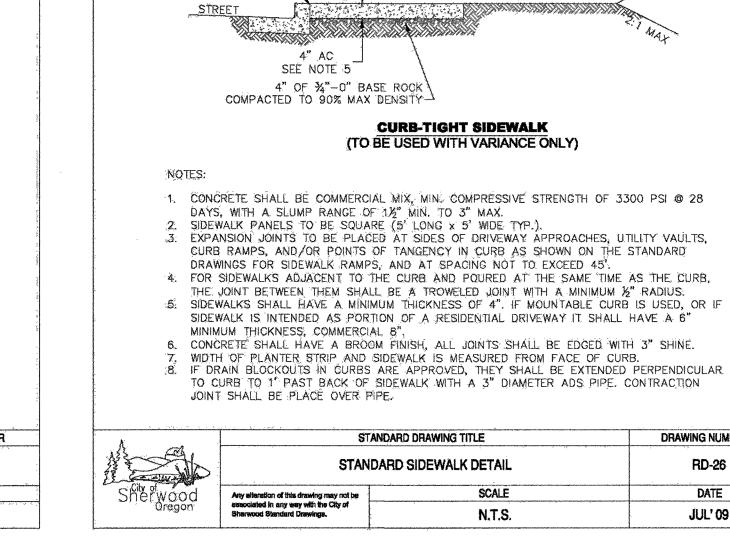
SHALL BE TO SUBGRADE OF STREET STRUCTURE OR 4" IN DEPTH,

B. MATERIAL TO BE PRE-MOLDED, ASPHALT IMPREGNATED,

NON-EXTRUDING, WITH A THICKNESS OF & INCH.

B. THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/2",

A. SPACING TO BE NOT MORE THAN 15 FEET,



RD-21

DATE

JUL' 09

5' PLANTER STRIP 5' TO 8' SIDEWALK 1

SEE NOTE 5

4" OF ¾"-0" BASE ROCK COMPACTED TO 90% MAX DENSITY-

SIDEWALK WITH PLANTER STRIP

(FOR ALL NEW CONSTRUCTION)

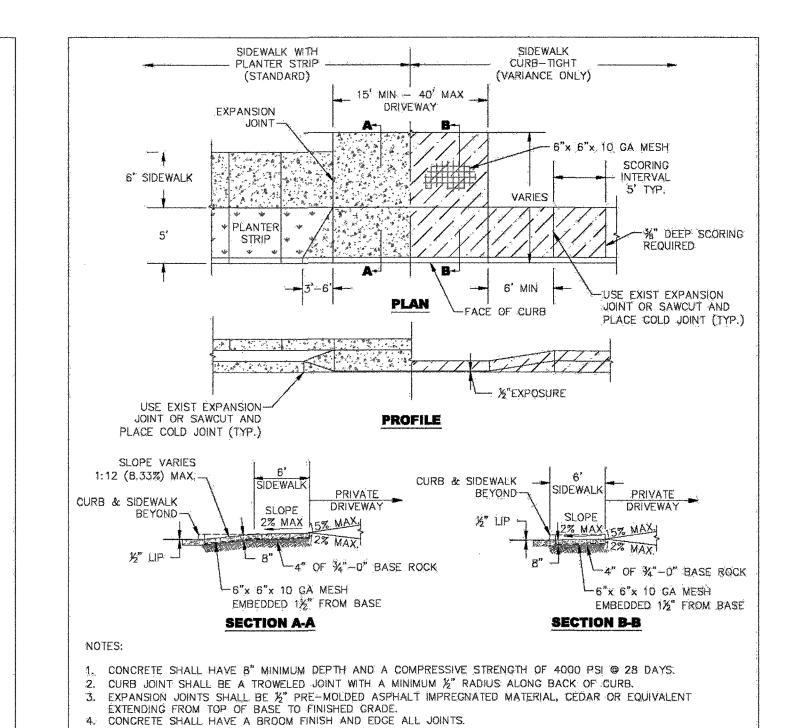
SCALE

N.T.S.

STERILIZE AND COMPACT SUBGRADE-

6' TO 8' SIDEWALK

SLOPE TO STREET



	STANDARD	DRAWING NUMBER	
	STANDARD COMME		
Sherwood	Any siteration of this drawing may not be	SCALE	DATE
Oregan	associated in any way with the City of Sherwood Standard Drawings.	N.T.S.	JUL'09

WINGS OF THE COMMERCIAL DRIVEWAY WHICH ARE A PORTION OF THE SIDEWALK SHALL NOT EXCEED A SLOPE OF

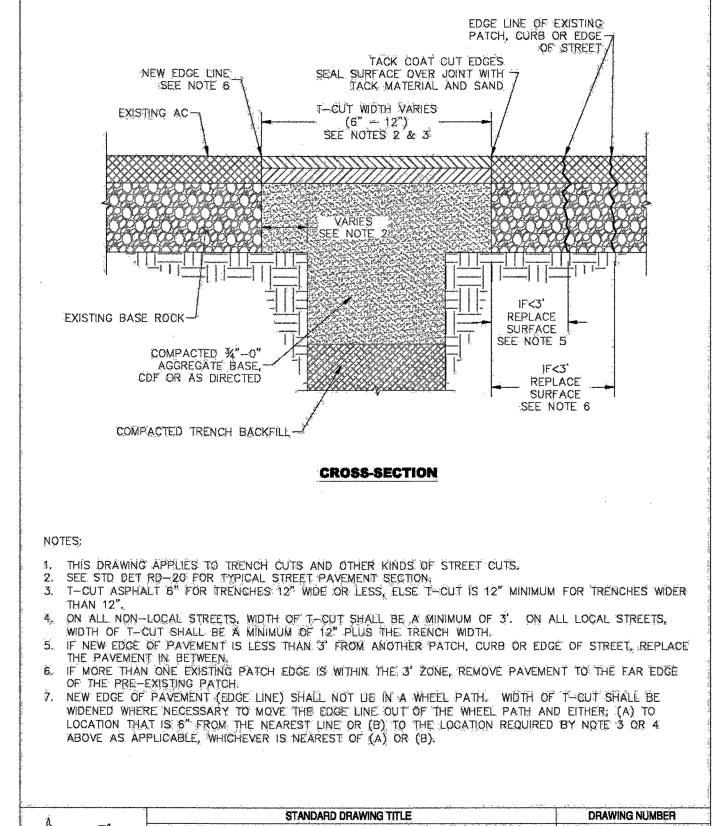
ODOT STANDARD DRAWINGS FOR COMMERCIAL DRIVEWAYS MAY BE USED WHEN PRE-APPROVED BY CITY ENGINEER:

5. WEEPHOLES ARE NOT TO BE PLACED IN WINGS.

6. IF CURBING IS BEING REMOVED TO INSTALL DRIVEWAY AND CUTTER SHOULD BECOME SEPARATED FROM THE

DRIVING SURFACE IN EXCESS OF X5", THEN THE GUTTER SHALL ALSO BE REMOVED AND REPLACED.

9. SLOPE OF THE DRIVEWAY MAY BE AWAY FROM THE CURB WHEN PRE-APPROVED BY THE CITY ENGINEER.



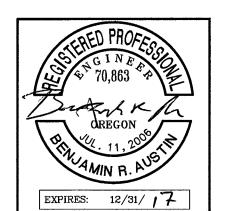
ASPHALT PAVEMENT TRENCH RESTORATION

Any elteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings.

SCALE

N.T.S.

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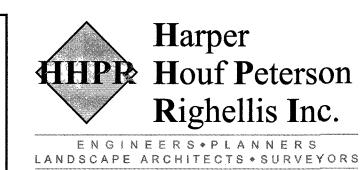


DRAWING NUMBER

RD-26

DATE

JUL' 09



205 SE Spokane Street, Suite 200, Portland, OR 97202

phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

CITY OF SHERWOOD STANDARD DETAILS - 1 OF 3 WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

C6.7

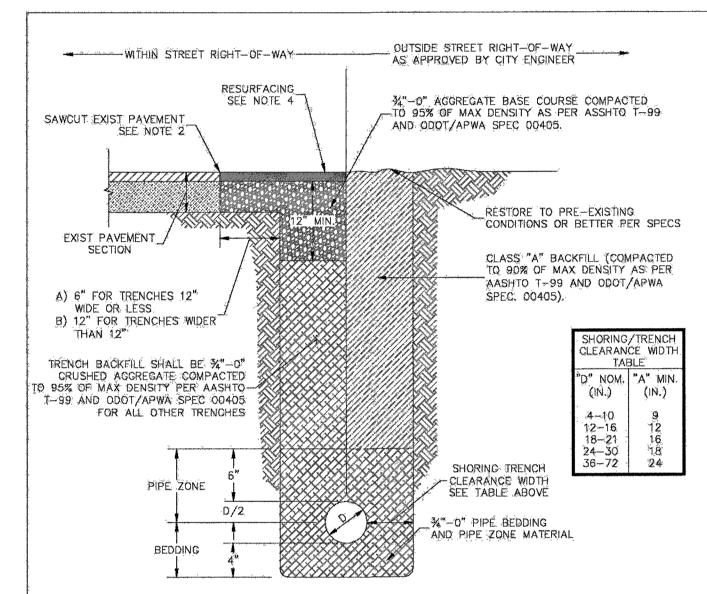
JOB NO.

BID SET

RD-45

DATE

JUL' 09



- THESE TRENCH BACKFILL REQUIREMENTS APPLY TO ALL PUBLIC UTILITY PIPES: FOR ADDITIONAL REQUIREMENTS, SEE CITY STANDARD DESIGN MANUAL SECTION 210,19.

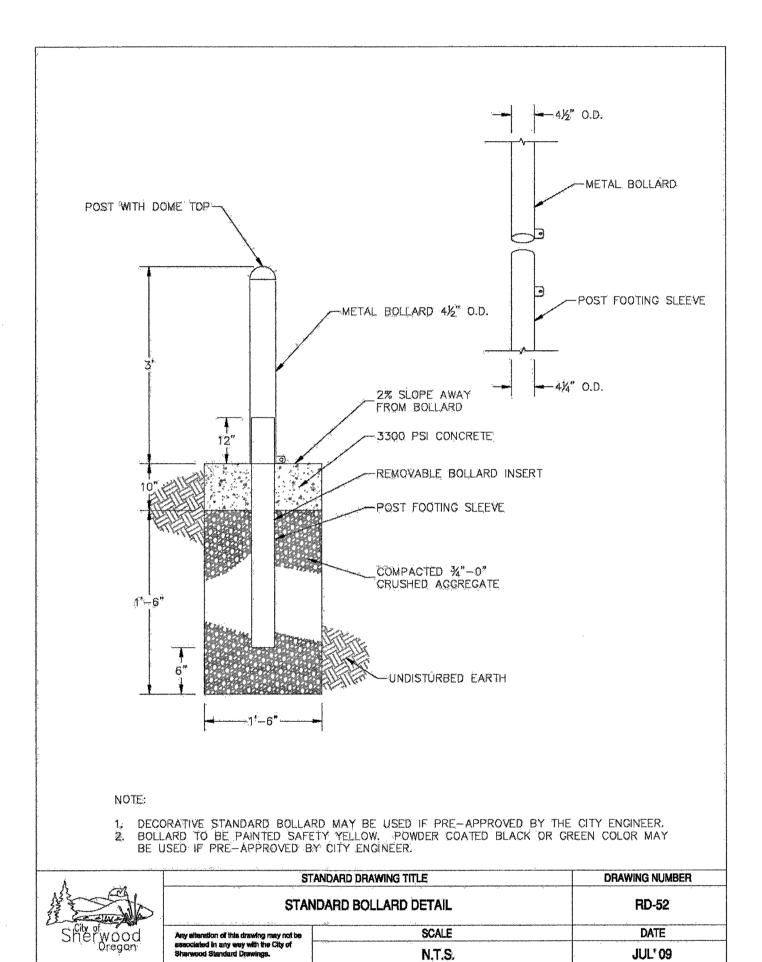
 2. SAWCUT EXISTING AC PAVEMENT FULL DEPTH. SAWCUT EXISTING PCC PAVEMENT ACCORDING TO CITY STANDARD
- J. FOR PCO PAVEMENT REQUIRED WIDTH OF OUT, SEE CITY STANDARD DETAILS.

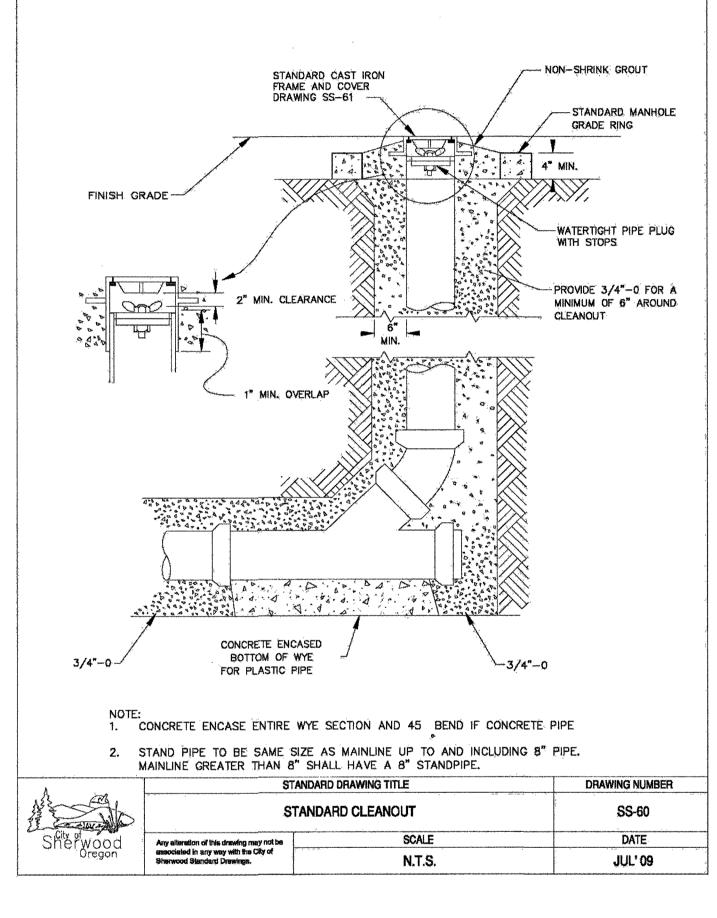
 4. MATCH EXISTING PAVEMENT MATERIAL(S). THICKNESS SHALL BE AS FOLLOWS:
- COLLECTOR STREETS, CONCRETE PATCHING MATERIAL SHALL BE HIGH EARLY STRENGTH CLASS 5000 PS PCC
- 4.2. FOR EXISTING AC PAVEMENT, RESURFACE TO A MINIMUM OF 31/2" OF LEVEL 2, 1/2" DENSE HMAC OR EXISTING AC THICKNESS PLUS 2", WHICHEVER IS GREATER, BUT DO NOT EXCEED 6". COMPACT AC IN 2" MAX LIFTS TO 91%
- OF MAXIMUM DENSITY (RICE).

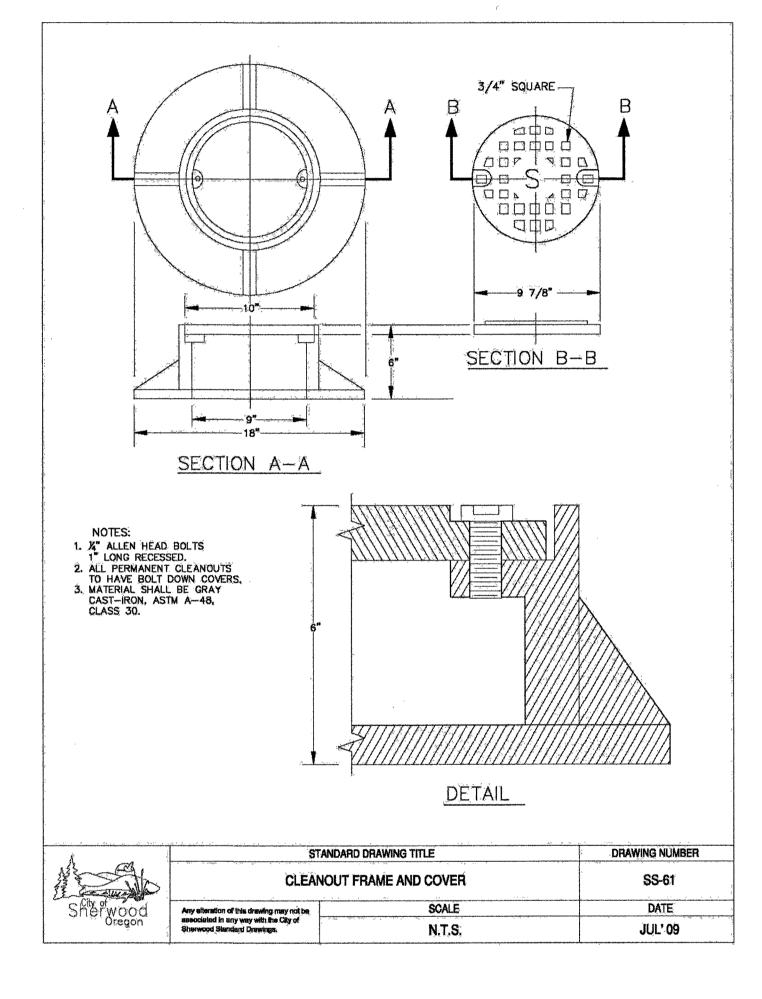
 5. ALL CUT EDGES OF AC SHALL BE SAND SEALED WITH CRS-1 OR CRS-2 EMULSIFIED ASPHALT OR EQUIVALENTS

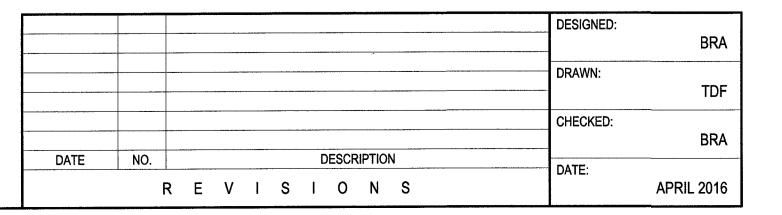
 6. FOR CONDUIT TRENCH REQUIREMENTS SEE CITY STANDARD DETAIL RD-46.

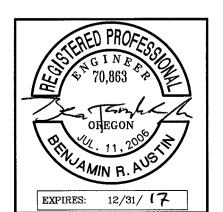
ħ .	STANDA	DRAWING NUMBER			
	STANDARD PIPE TRENCH B	STANDARD PIPE TRENCH BACKFILL AND SURFACE RESTORATION			
Sherwood	Any alteration of this drawing may not be	SCALE	DATE		
Oregon	associated in any way with the City of Sherwood Standard Drawings.	N.T.S.	JUL'09		









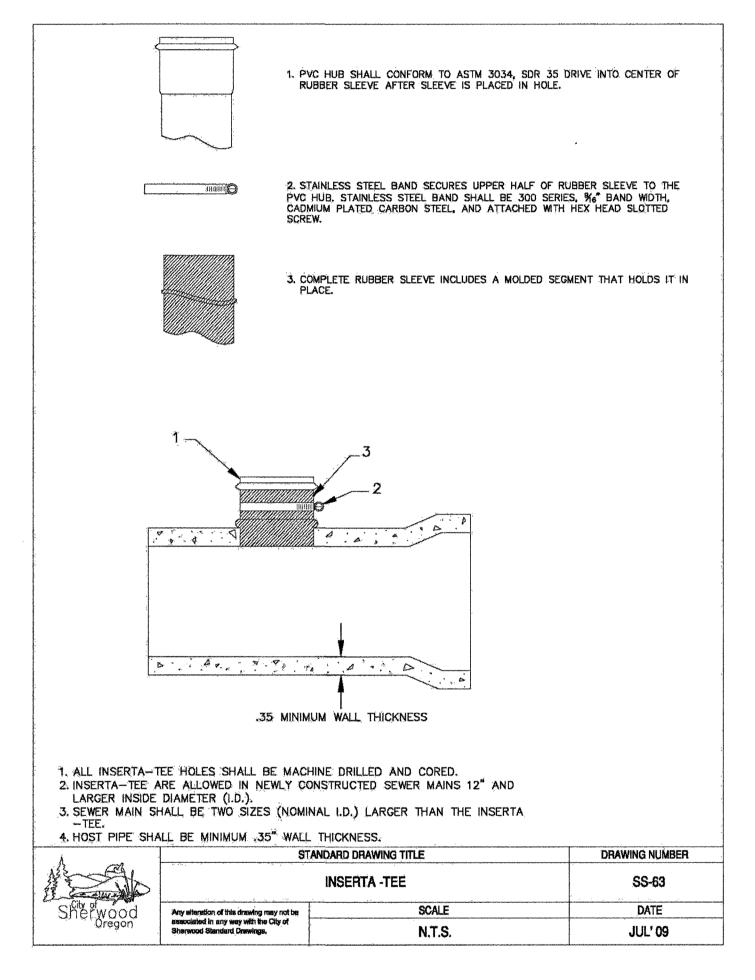


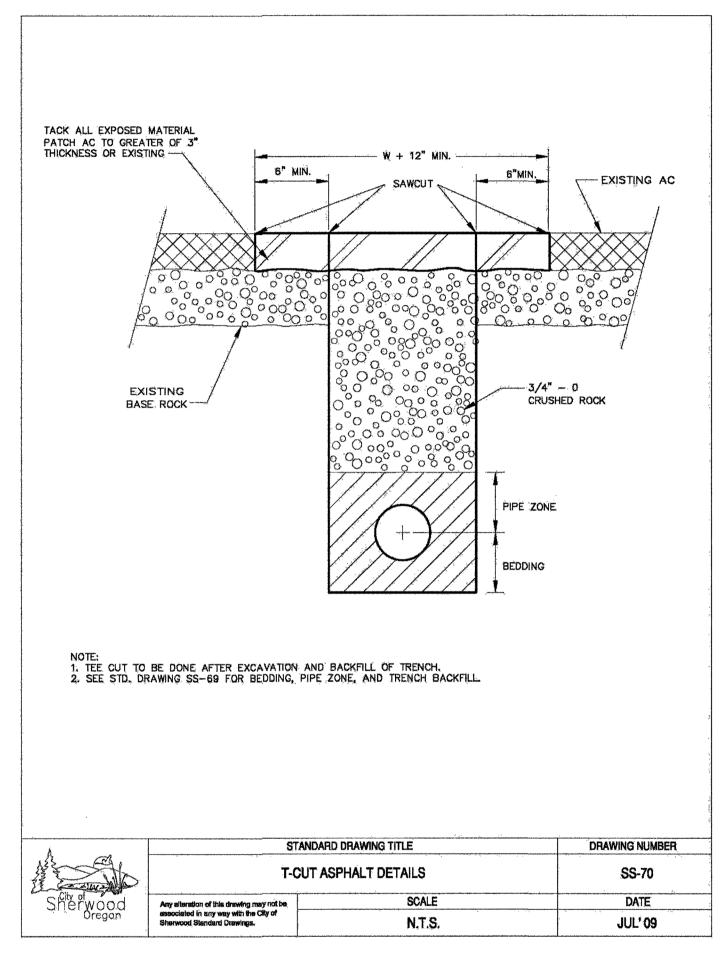


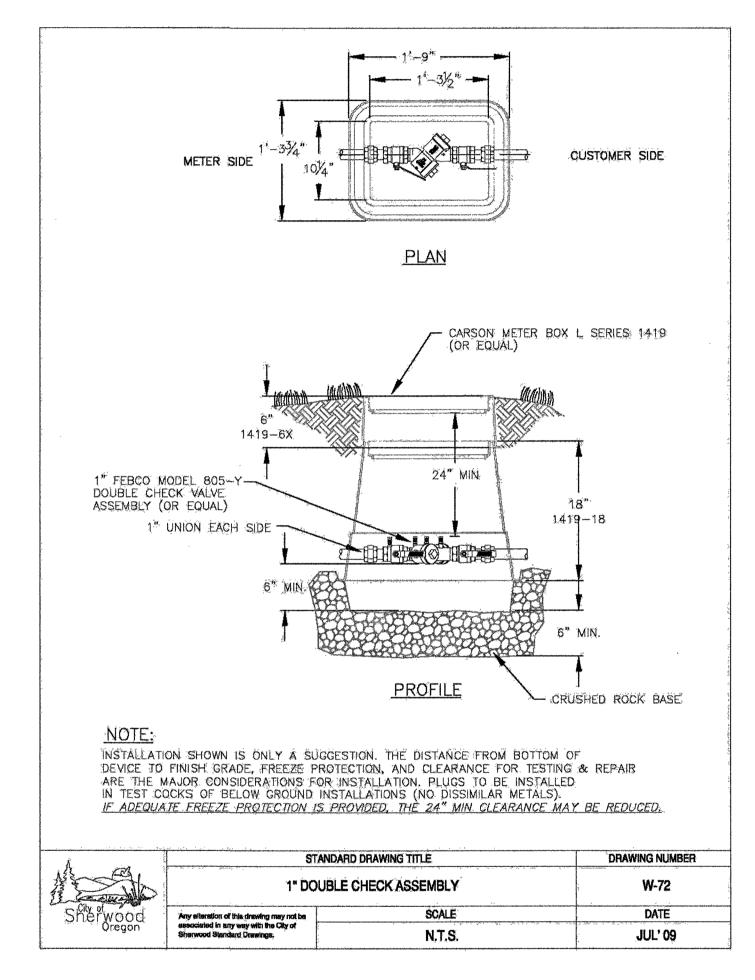
CITY OF SHERWOOD STANDARD DETAILS - 2 OF 3 WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

BID SET

JOB NO. SHR-13











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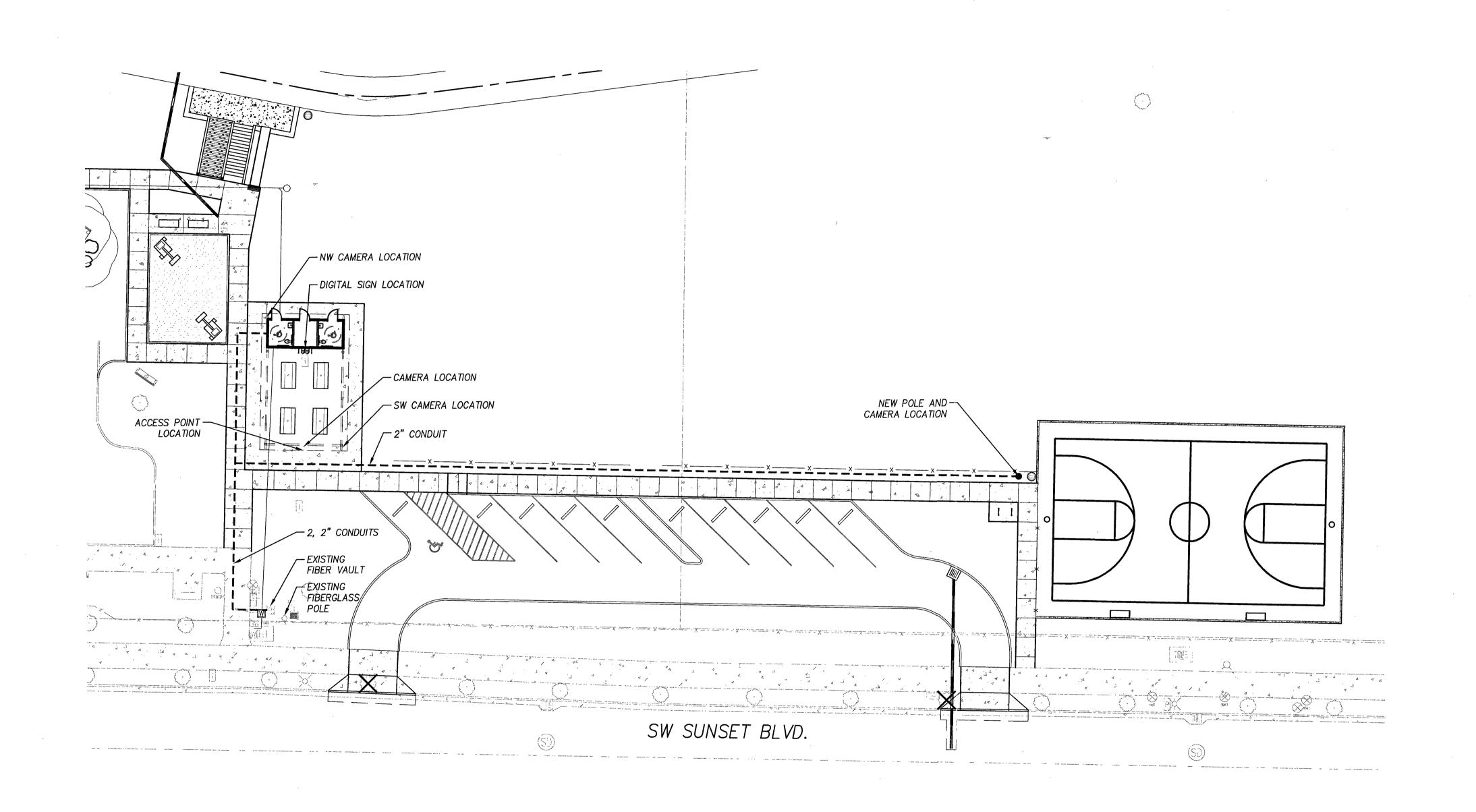
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

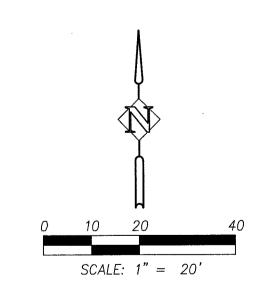
CITY OF SHERWOOD STANDARD DETAILS - 3 OF 3
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

C6.9

JOB NO.

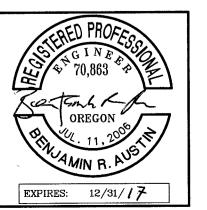
BID SET





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DATE	NO.	DESCRIPTION	DATE:
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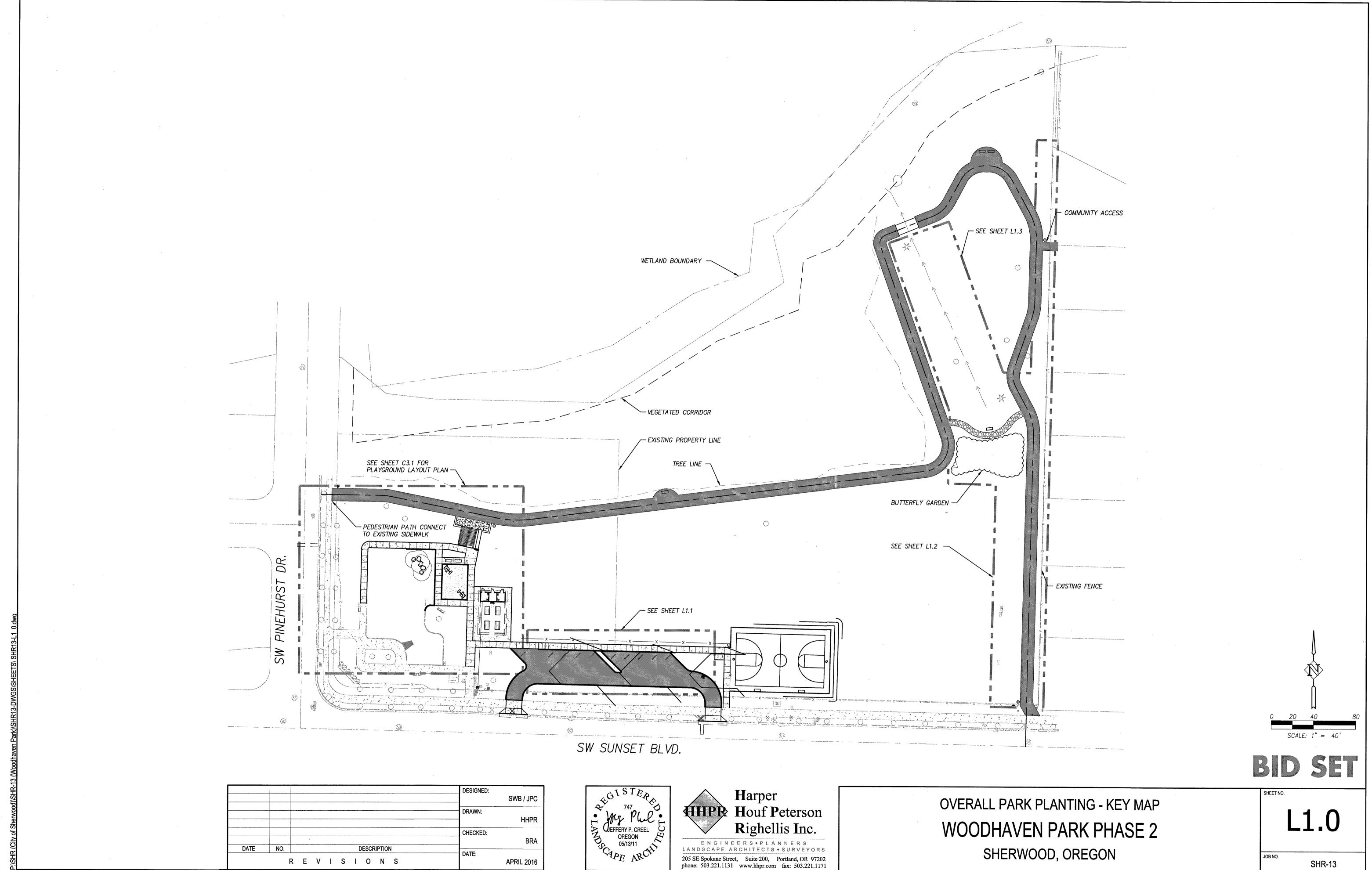


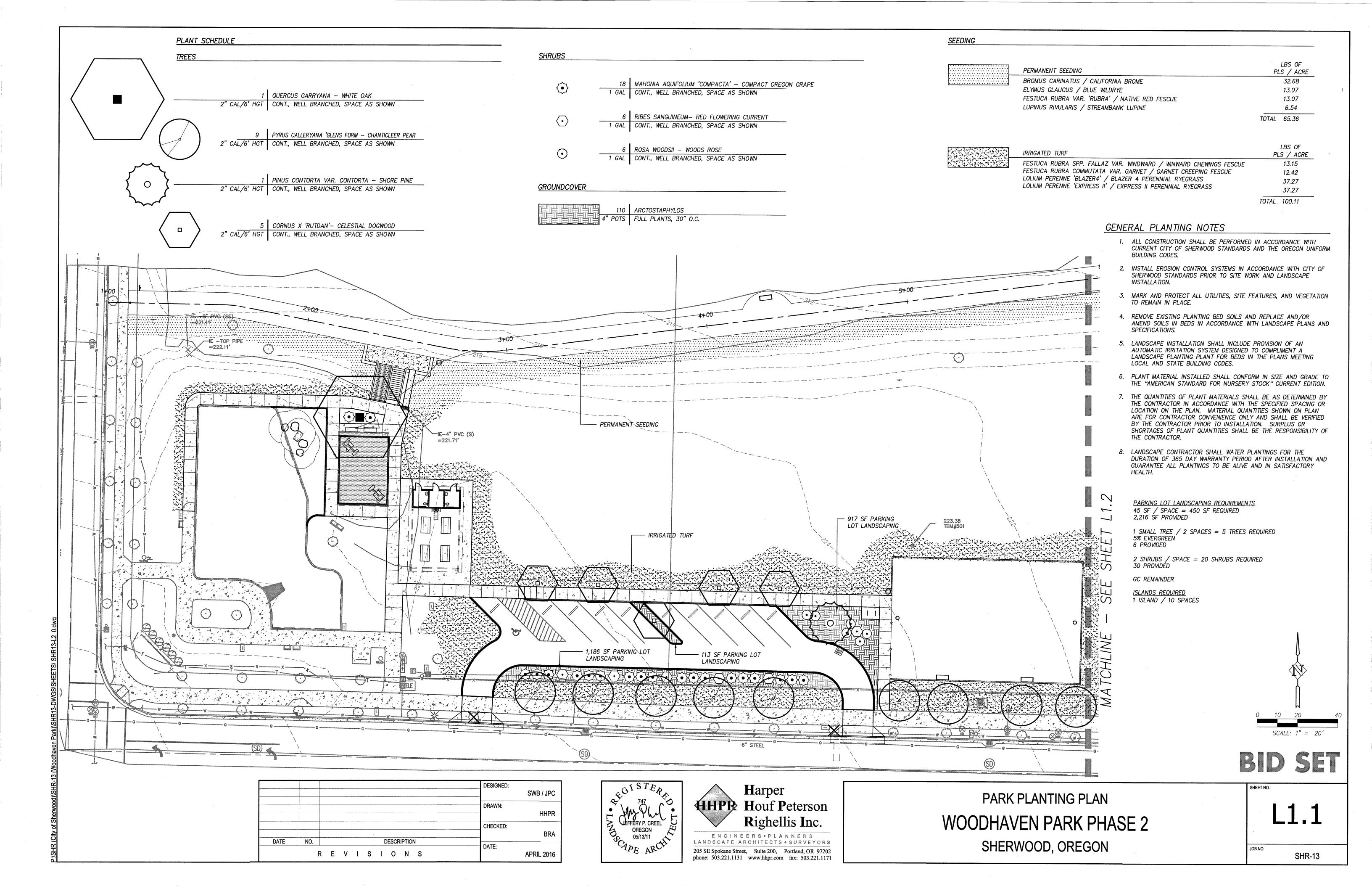
ENGINEERS * PLANNERS
LANDSCAPE ARCHITECTS * SURVEYORS

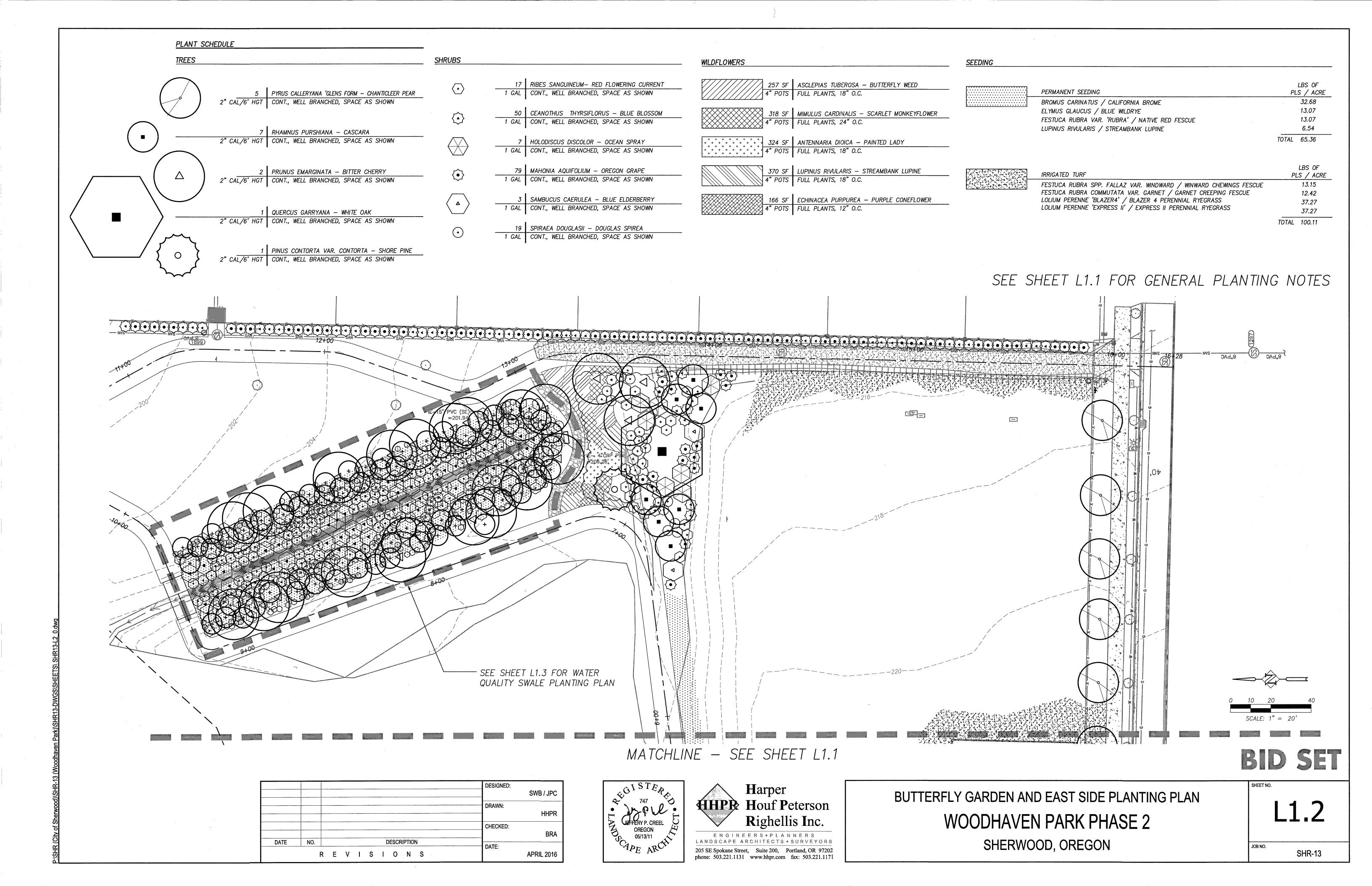
205 SE Spokane Street, Suite 200, Portland, OR 97202
phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

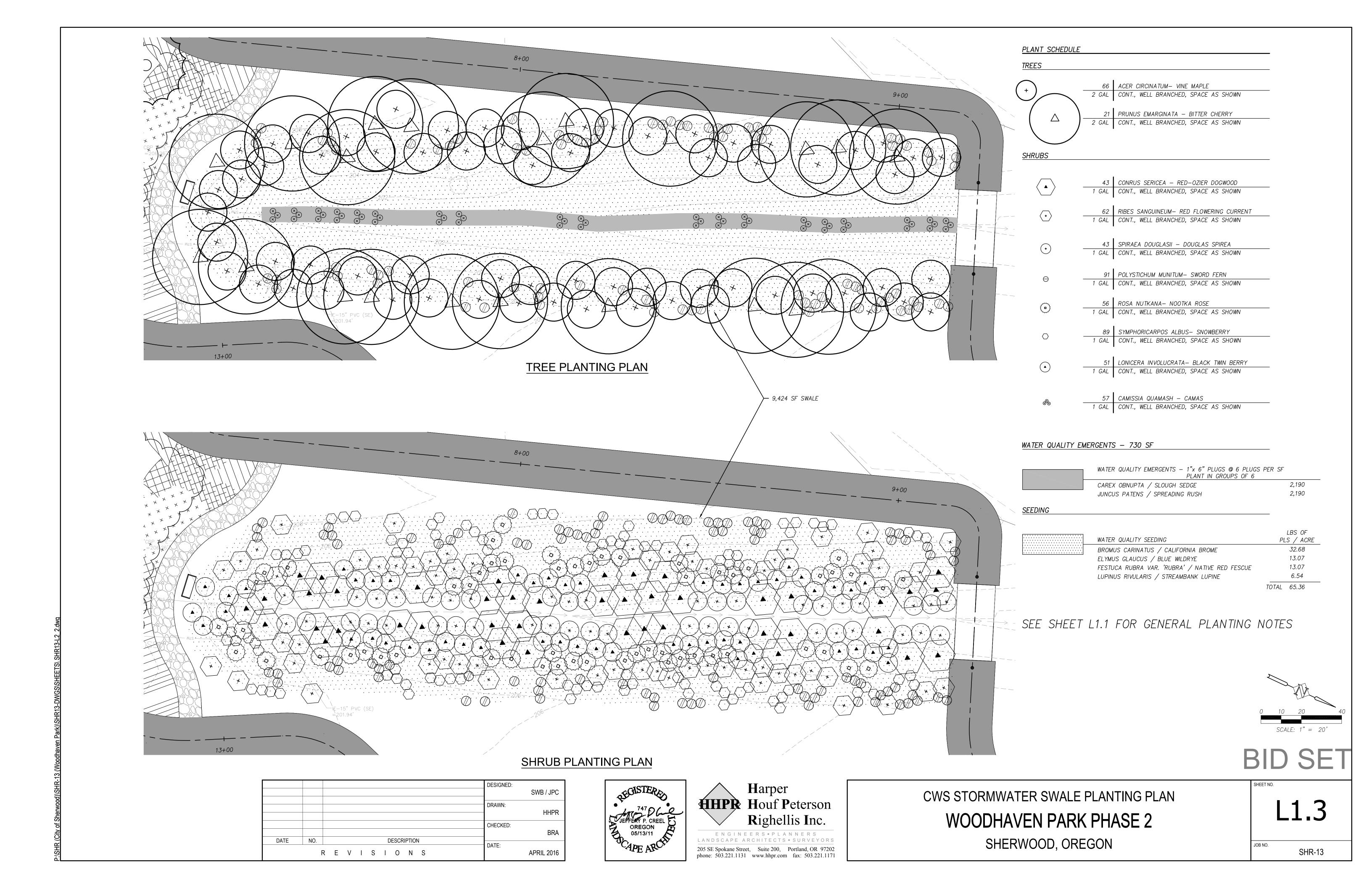
SITE SECURITY AND I.T.
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

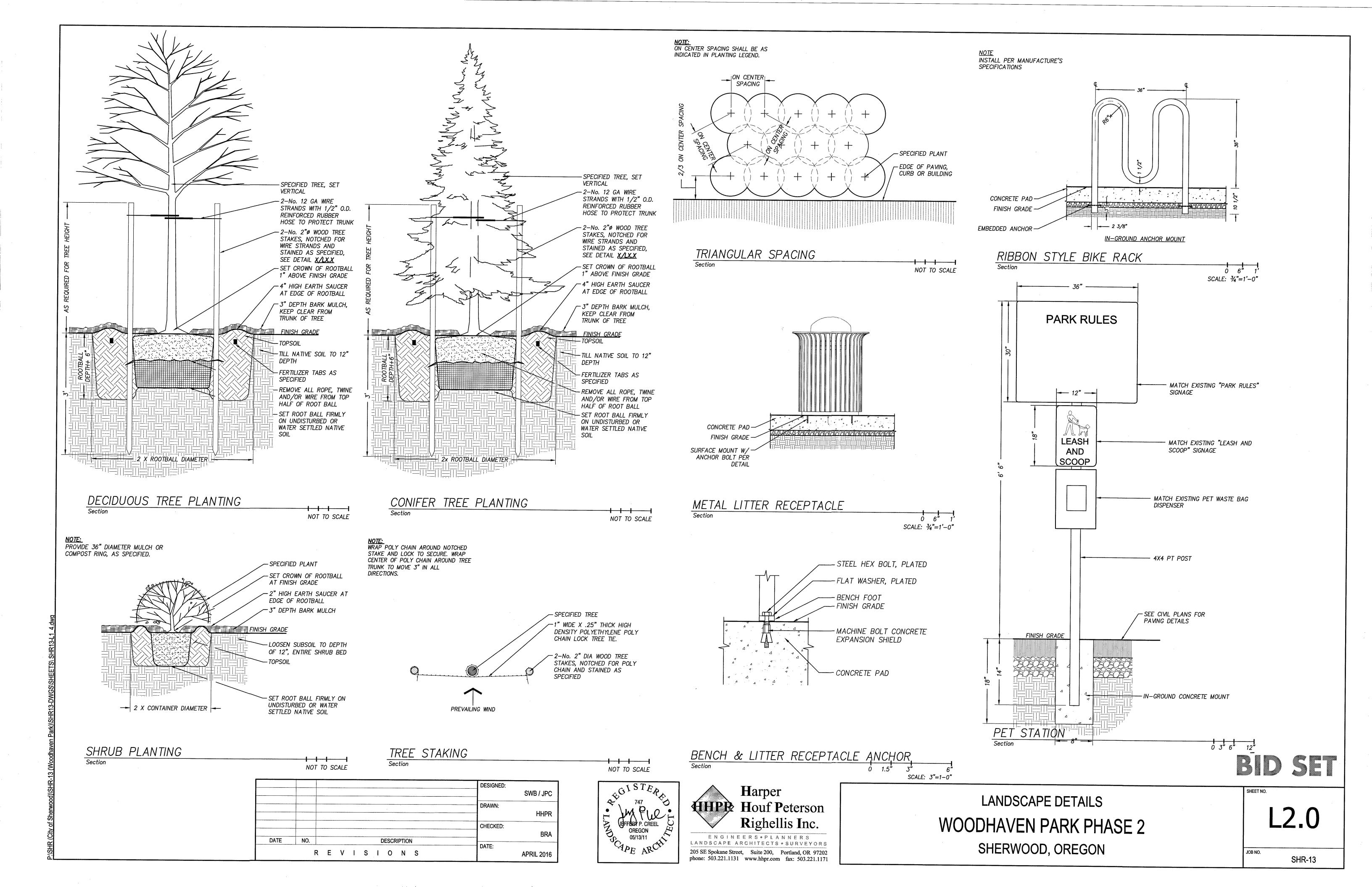
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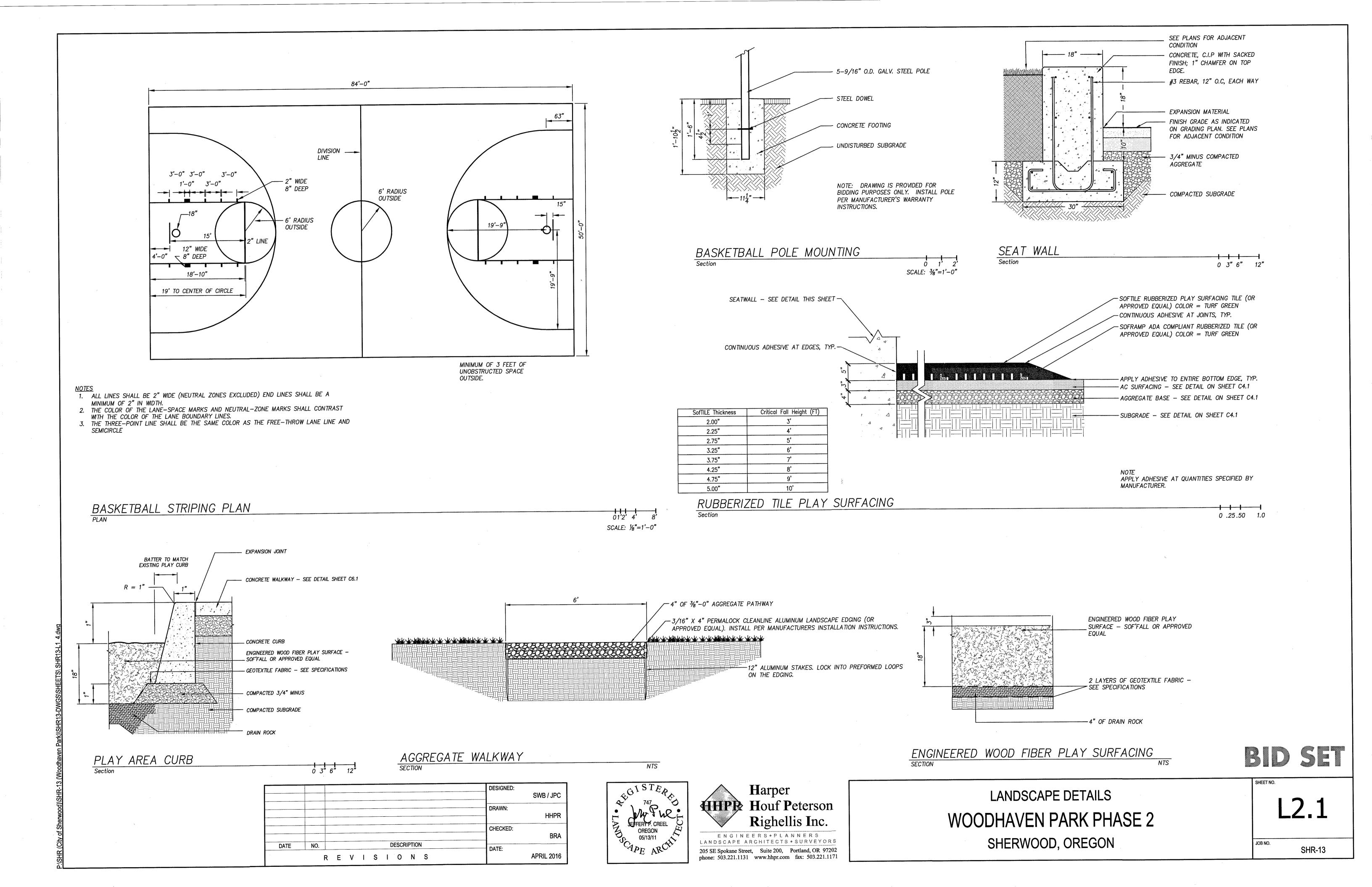


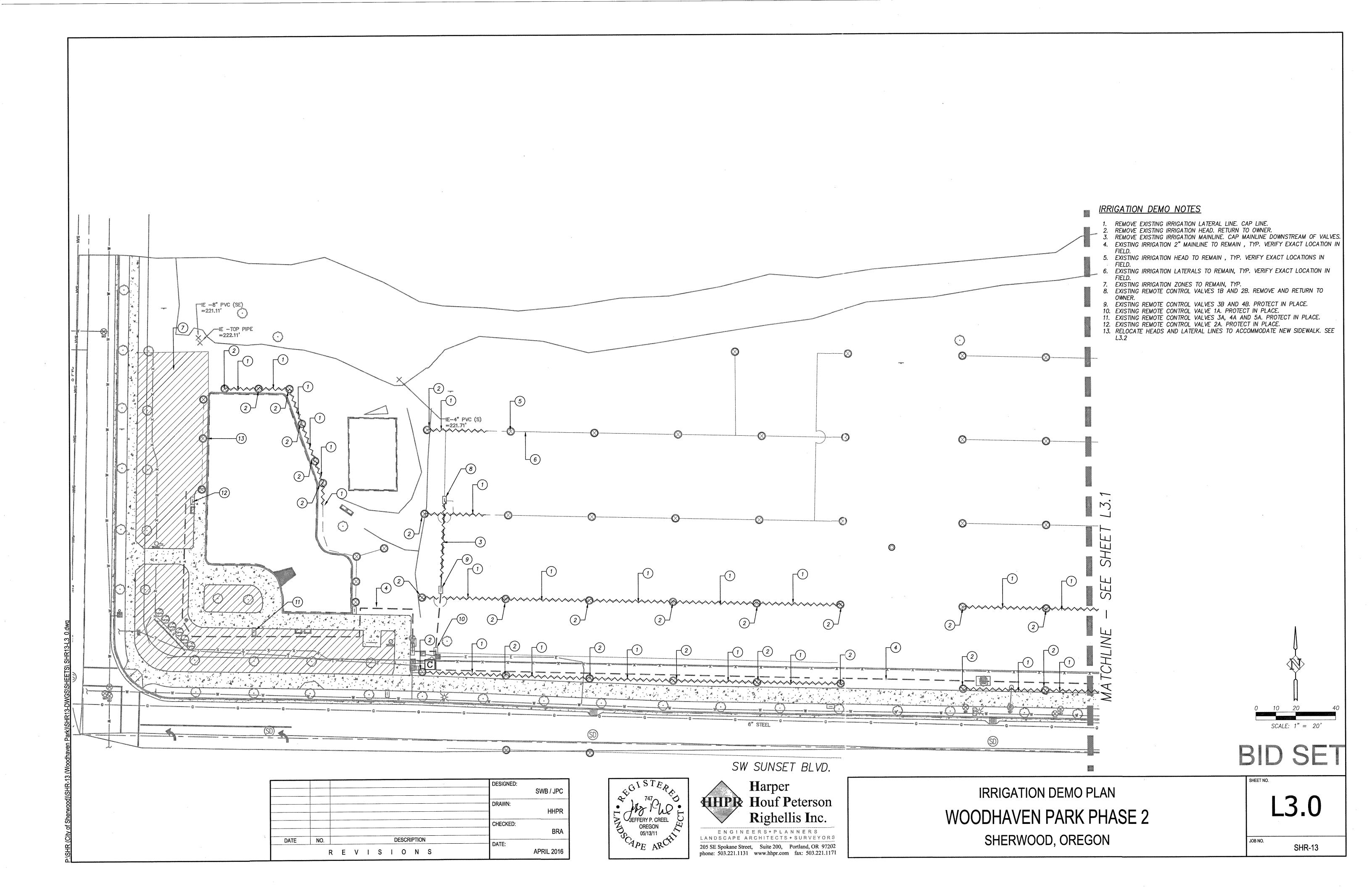






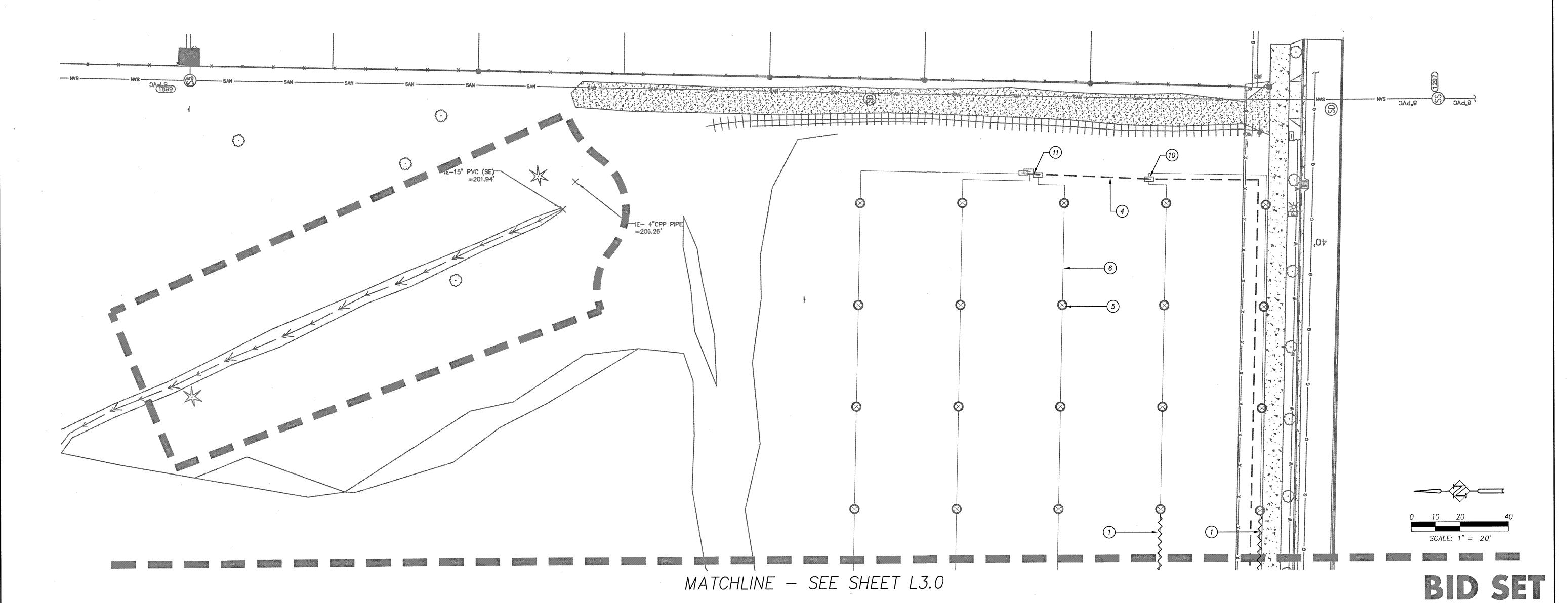






IRRIGATION DEMO NOTES

- REMOVE EXISTING IRRIGATION LATERAL LINE. CAP LINE. 2. REMOVE EXISTING IRRIGATION HEAD. RETURN TO OWNER.
- 3. REMOVE EXISTING IRRIGATION MAINLINE. CAP MAINLINE DOWNSTREAM OF
- 4. EXISTING IRRIGATION 2" MAINLINE TO REMAIN , TYP. VERIFY EXACT LOCATION IN FIELD.
- 5. EXISTING IRRIGATION HEAD TO REMAIN , TYP. VERIFY EXACT LOCATIONS IN
- 6. EXISTING IRRIGATION LATERALS TO REMAIN, TYP. VERIFY EXACT LOCATION IN
- 9. EXISTING IRRIGATION ZONES TO REMAIN, TYP. 10. EXISTING REMOTE CONTROL VALVES 7B, 8B AND 9B. PROTECT IN PLACE. 11. EXISTING REMOTE CONTROL VALVES 5B AND 6B. PROTECT IN PLACE.



SWB / JPC CHECKED: DATE NO. DESCRIPTION R E V I S I O N S **APRIL 2016**

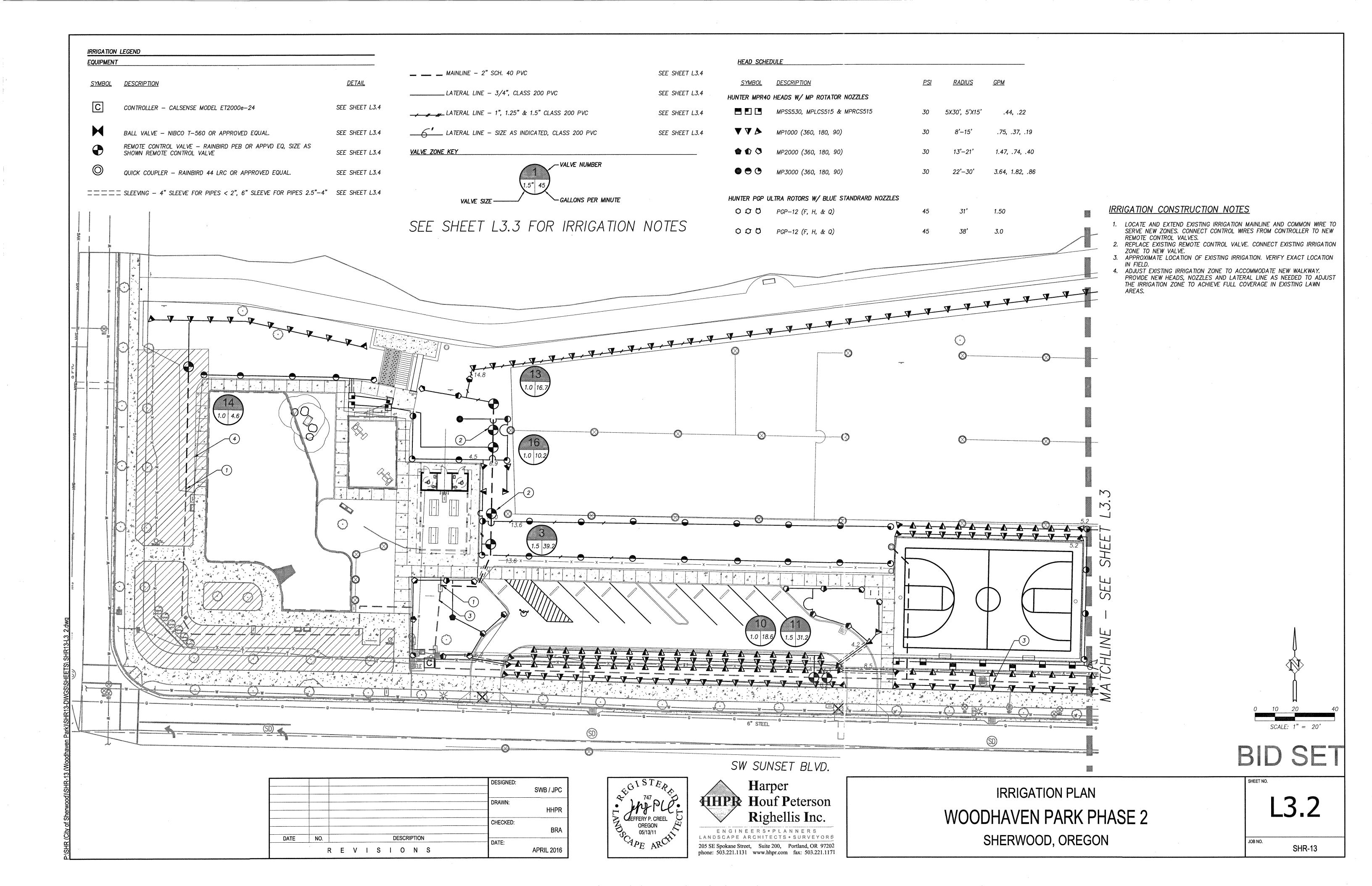




IRRIGATION DEMO PLAN WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

SHR-13

ENGINEERS + PLANNERS
LANDSCAPE ARCHITECTS + SURVEYORS 205 SE Spokane Street, Suite 200, Portland, OR 97202 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171



IRRIGATION NOTES

- 1. THE CONTRACTOR SHALL INSPECT THE SITE AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
- 2. IRRIGATION PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. PLACE LINES IN A COMMON TRENCH WHENEVER POSSIBLE. FIELD ADJUST LINES TO AVOID CONFLICT WITH UTILITIES.
- 3. IRRIGATION IS COORDINATED WITH THE PLANTING PLAN AND SITE IMPROVEMENTS AND IS DESIGNED WITH TRIANGULAR SPACING GIVING HEAD TO HEAD COVERAGE. COORDINATE IRRIGATION HEAD LAYOUT WITH NEW PLANT MATERIALS, LOCATE SPRAY HEADS 30" FROM BASE OF TREE. DO NOT ALTER HEAD LOCATION, PIPE LAYOUT, OR VALVE LOCATION WITHOUT WRITTEN APPROVAL FROM THE CONSTRUCTION MANAGER. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES OCCUR BETWEEN THE PLANS AND FIELD CONDITIONS.
- 4. ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND PROPERLY ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND MINIMIZATION OF OVER SPRAY ONTO WALKS, BUILDINGS, PARKING AREAS, ETC.
- 5. ALL PIPE SIZES INDICATED ARE MINIMUMS. CONTRACTOR MAY NOT DECREASE PIPE SIZE. LARGER PIPE SIZES MAY BE USED AT NO ADDITIONAL COST TO OWNER.
- 6. INSTALL ALL IRRIGATION PIPE AND CONTROL WIRES IN MINIMUM 4" PVC SLEEVE BELOW ALL PAVED SURFACES UNLESS OTHERWISE INDICATED ON THE PLANS. INSTALL SLEEVES PRIOR TO PLACEMENT OF PAVEMENTS AND PAVEMENT SUB-BASE.
- 7. COORDINATE IRRIGATION POINTS OF CONNECTION AND LOCATION OF AUTOMATIC CONTROL VALVES WITH PROJECT MANAGER. COORDINATE ALL WORK WITH OTHER TRADES, I.E. ELECTRICAL, MASONRY, ETC.
- 8. CONTRACTOR TO PROGRAM AUTOMATIC CONTROLLER TO ALLOW FOR THE EQUIVALENT OF 1" OF WATER PER WEEK, OR PER SITE AND PLANTING NEEDS FOR BEST PLANT HEALTH.
- 9. ALL PIPES SHALL BE TRENCHED. PROVIDE POSITIVE DRAINAGE OF MAINLINE. PLACE MANUAL DRAIN AT LOW POINTS IN MAINLINE. IDENTIFY LOCATIONS ON AS-BUILTS.
- 10. USE 45° ELLS INSTEAD OF 90° ELLS ON ALL MAINLINES 2-1/2" AND LARGER. INSTALL CONCRETE THRUST BLOCKS AT ALL MAINLINE CHANGES IN DIRECTION. POUR MINIMUM OF 1 CUBIC FOOT OF CONCRETE ON UNDISTURBED SOIL. WRAP PIPE IN PLASTIC WRAP PRIOR TO COVERING WITH CONCRETE.
- 11. CONTRACTOR TO INSTALL CONTROLLER AND ACCESSORIES AS REQUIRED. CONTRACTOR TO FURNISH CONTROL WIRES FROM VALVES TO CONTROLLER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 110 VOLT SERVICE FROM BUILDING AND CONNECTION TO CONTROLLER SERVICE.

CHECKED:

APRIL 2016

DESCRIPTION

REVISIONS

DATE

NO.

12. INSTALL ONE (1) ADDITIONAL RED CONTROL WIRE AND ONE (1) ADDITIONAL WHITE CONTROL WIRE FROM CONTROLLER TO END OF MAINLINE.

IRRIGATION CONSTRUCTION NOTES

1. LOCATE AND EXTEND EXISTING IRRIGATION MAINLINE TO SERVE NEW ZONES. CONNECT NEW COMMON & CONTROL WIRES FROM CONTROLLER TO NEW REMOTE CONTROL VALVES.

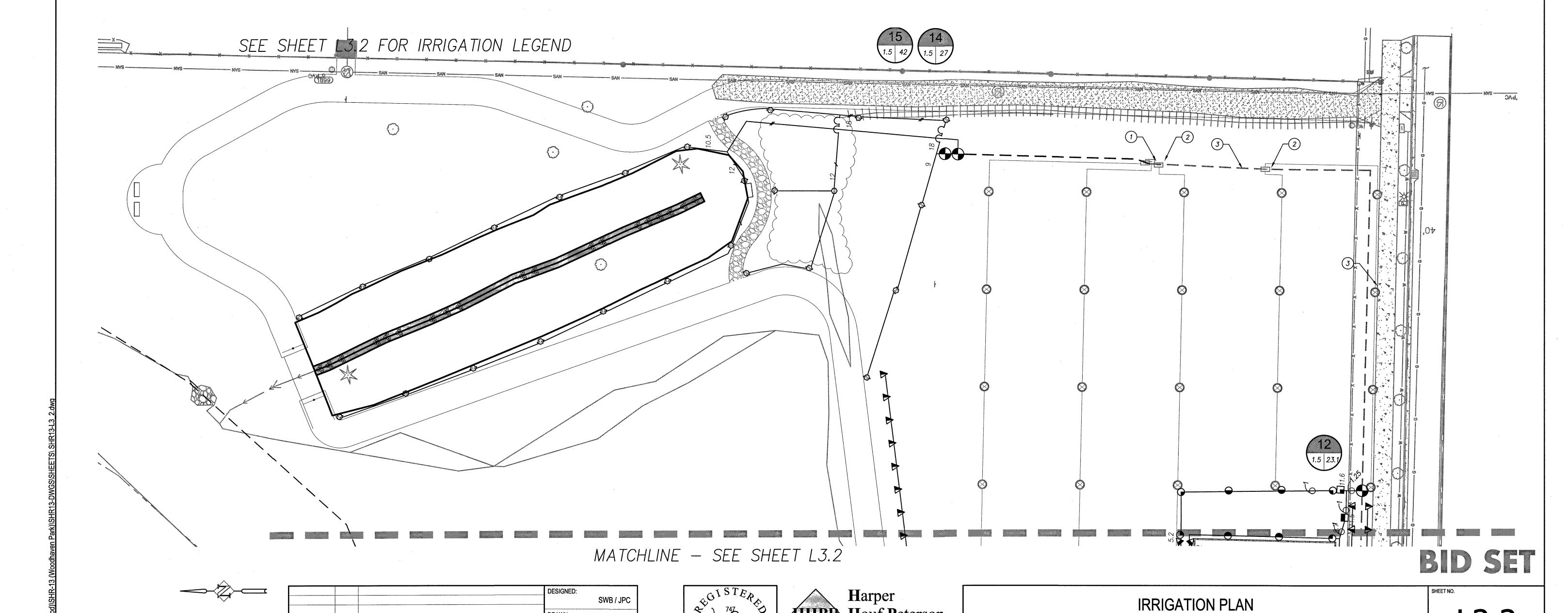
WOODHAVEN PARK PHASE 2

SHERWOOD, OREGON

L3.3

SHR-13

- 2. CONNECT EXISTING REMOTE CONTROL VALVES TO NEW CONTROLLER.
- 3. APPROXIMATE LOCATION OF EXISTING IRRIGATION. VERIFY EXACT LOCATION IN FIELD.
- 4. CONNECT NEW REMOTE CONTROL VALVE TO EXISTING MAINLINE AND NEW CONTROLLER.

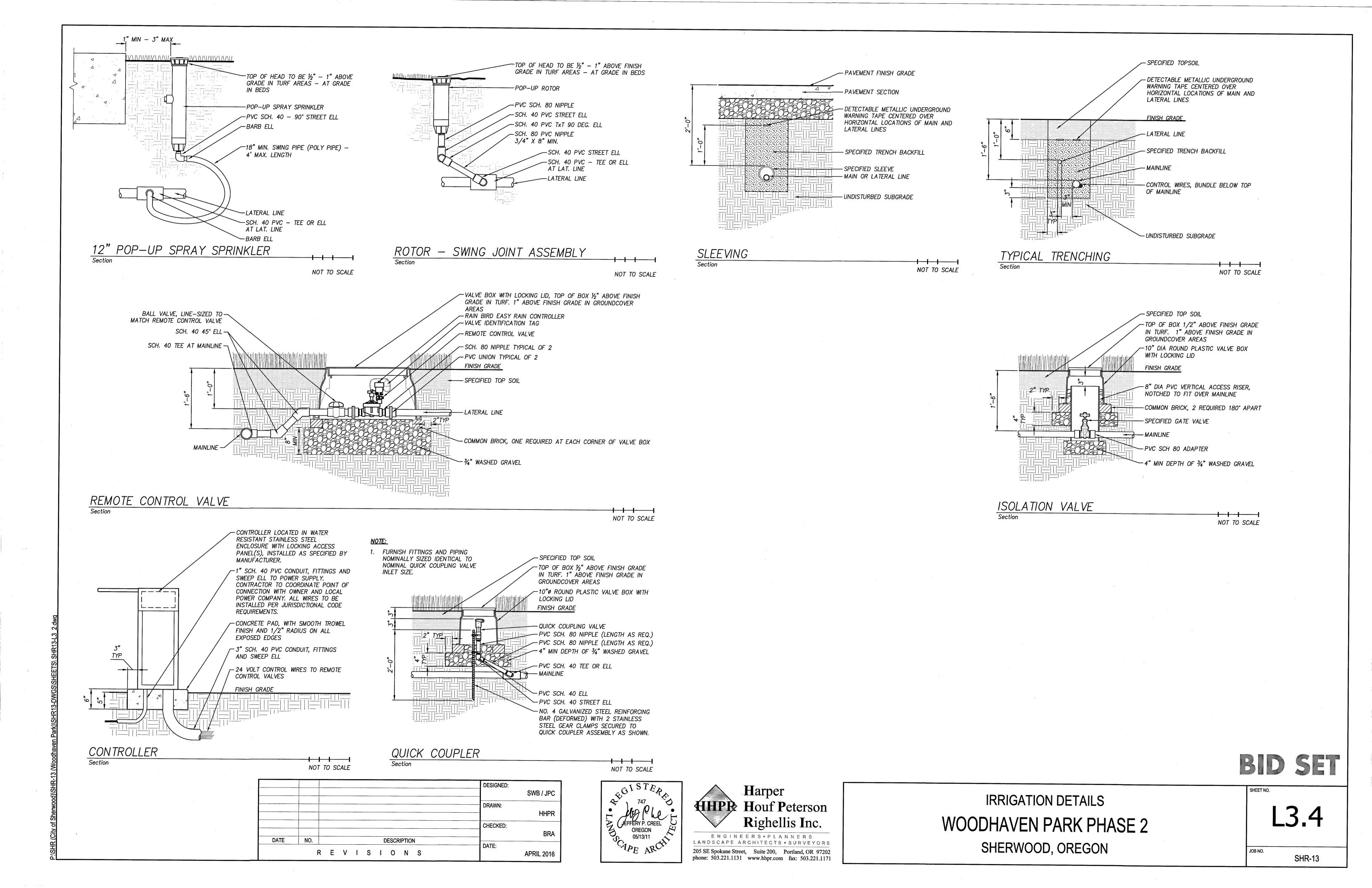


HHPR Houf Peterson

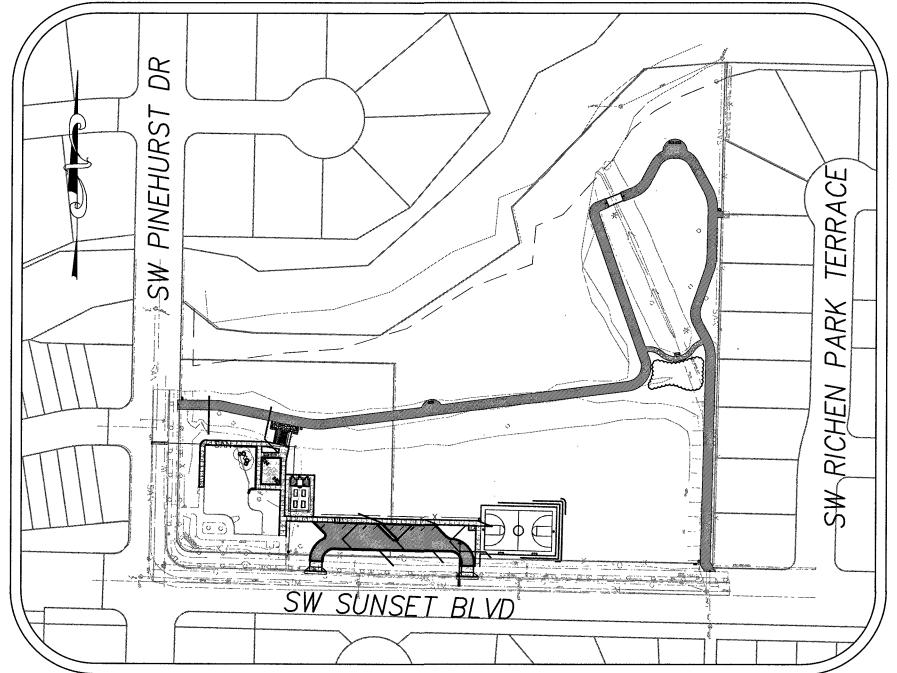
ENGINEERS * PLANNERS

205 SE Spokane Street, Suite 200, Portland, OR 97202

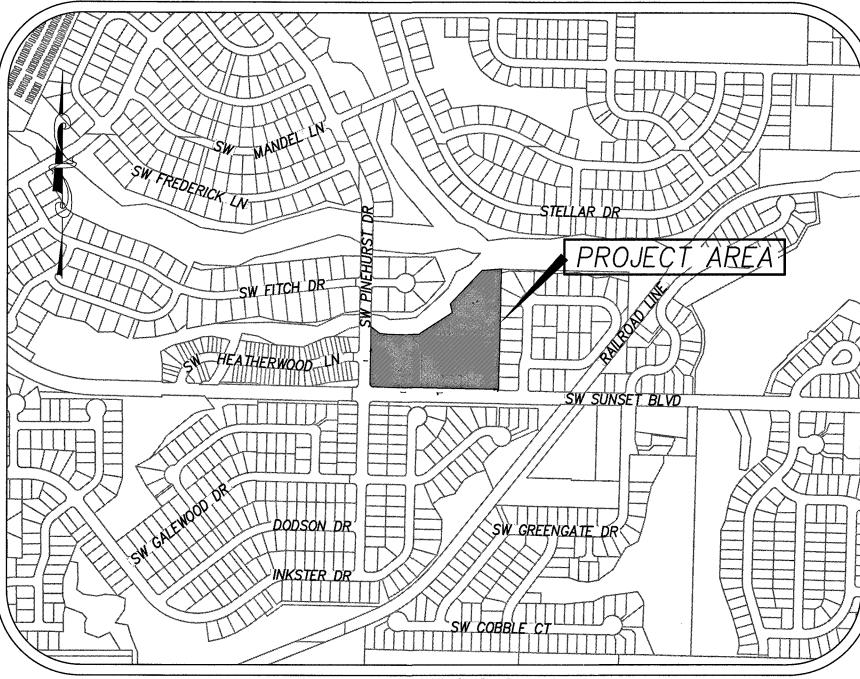
Righellis Inc.



WOODHAVEN PARK PHASE 2 EROSION AND SEDIMENT CONTROL PLAN



SITE MAP NOT TO SCALE



VICINITY MAP NOT TO SCALE

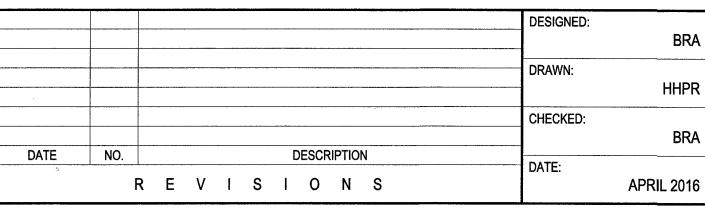
PROJECT LOCATION:

WOODHAVEN PARK SHERWOOD, OR 97140 WASHINGTON COUNTY, OREGON

LATITUDE = N45-20-59, LONGITUDE = W122-51-20

ATTENTION EXCAVATORS:

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 THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.



DEVELOPER

DEVELOPER/COMPANY: CITY OF SHERWOOD CONTACT: KRISTEN SWITZER COMMUNITY SERVICES DIRECTOR ADDRESS: 22560 SW PINE STREET SHERWOOD, OR 97140

PHONE: 503-625-4210 EMAIL: SWITZERK@SHERWOODOREGON.GOV

PLANNING / ENGINEERING / SURVEYING FIRM

ENGINEERING FIRM: HARPER HOUF PETERSON RIGHELLIS INC. CONTACT: BEN AUSTIN ADDRESS: 205 SE SPOKANE STREET STE 200

PORTLAND, OREGON 97202 PHONE: 503-221-1131 EMAIL: BENA@HHPR.COM

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

* PARTIALLY DEVELOPED PARK

DEVELOPED CONDITIONS

COMMUNITY PARK

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

- * CLEARING (WEEK 1 3)
- * MASS GRADING (WEEK 3 6)
- * UTILITY INSTALLATION (WEEK 3 6)
- * SITE CONSTRUCTION (WEEK 6 10)
- * FINAL STABILIZATION (WEEK 10 12)

TOTAL SITE AREA = 6.19 ACRES

TOTAL DISTURBED AREA = 1.0 ACRES

SITE SOIL CLASSIFICATION: PREDOMINATELY QUATAMA LOAM.

THESE SOILS HAVE A LOW SUSCEPTIBILITY TO EROSION, EROSION CONTROL

RECEIVING WATER BODIES

CEDAR CREEK

PROPERTY DESCRIPTION:

STREET LOCATION: SW SUNSET BLVD. AT SW PINEHURST DR. TAX LOT AND MAP NO.: TL 1800 AND TL1900: MAP 2S 1 31 DB EXISTING USE: NEIGHBORHOOD PARK EXISTING ZONE DESIGNATION: LDR-PUD SITE AREA: 6.19 AC.

PERMITTEE'S SITE INSPECTOR:

COMPANY/AGENCY: CITY OF SHERWOOD CONTACT: ANDREW STIRLING PHONE: 503-925-2307 E-MAIL: STIRLINGA@SHERWOODOREGON.COM DESCRIPTION OF EXPERIENCE: 5 YEARS OF CONSTRUCTION AND EROSION AND SEDIMENT CONTROL INSPECTION

STANDARD EROSION AND SEDIMENT **CONTROL PLAN DRAWING NOTES:**

- All permit registrants must implement the ESCP. Failure to implement any of the control measures or practices described in The ESCP measures shown on this plan are minimum requirements for anticipated site conditions. During the construction
- period, upgrade these measures as needed to comply with all applicable local, state, and federal erosion and sediment
- Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent. 4. Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of
- Identify, mark, and protect (by fencing off or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas.
- 6. Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used.
- Erosion and sediment control measures including perimeter sediment control must be in place before vegetation is disturbed and must remain in place and be maintained, repaired, and promptly implemented following procedures established for the duration of construction, including protection for active storm drain inlets and catch basins and appropriate non-stormwater
- Establish concrete truck and other concrete equipment washout areas before beginning concrete work. Direct all wash water into a pit or leak-proof container. Handle wash water as waste, concrete discharge to water of the state is prohibited.
- 9. Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses and
- for all roadways including gravel roadways. 10. Establish material and waste storage areas, and other non-stormwater controls.
- 11. Prevent tracking of sediment onto public or private roads using BMPs such as: graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing
- 12. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site.
- 13. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, leftover paints, solvents, and glues from construction
- 14. Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies.
- 15. Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil.
- 16. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize
- nutrient releases to surface waters. Exercise caution when using time—release fertilizers within any waterway riparian zone. 17. If a stormwater treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system. location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before

operating the treatment system. Obtain plan approval before operating the treatment system. Operate and maintain the

- treatment system according to manufacturer's specifications. 18. At the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters.
- 19. Construction activities must avoid or minimize excavation and creation of bare ground during wet weather October 01
- 20. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence
- Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height. and
- Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. 23. Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the
- sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean up of sediment shall be performed according to the Oregon Division of State Lands required timeframe. 24. The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments.
- 25. Provide permanent erosion control measures on all exposed areas. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. However, do remove all temporary erosion control measures as exposed areas become stabilized, unless doing so conflicts with local requirements. Properly dispose of construction materials and waste, including sediment retained by temporary BMPs.
- 26. If vegetative seed mixes are specified, seeding must take place no later that September 1; the type and percentages of seed in the mix must be identified on the plans.
- 27. All pumping of sediment laden water shall be discharged over an undisturbed, preferably vegetated area, and through a sediment control BMP i.e. (filter bag) 28. All exposed soils must be covered during the wet weather period, October 01 - May 31.
- 29. If waters of the state is within the project site or within 50 feet of the project boundary, maintain the existing natural buffer within the 50-foot zone for the duration of the permit coverage, or maintain less than the entire existing natural buffer and provide additional erosion and sediment control BMPs.

GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-CN PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-CN PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-CN PERMIT. THIS ESCP AND

BMP MATRIX FOR CONSTRUCTION PHASES

REFER TO DEO GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

	CLEARING	MASS GRADING	UTILITY INSTALLATION	SITE CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT. 1 - MAY 31ST)
EROSION PREVENTION						
PRESERVE NATURAL VEGETATION	X	Х	X	Х	X	X
GROUND COVER		X	X	X	X	X
HYDRAULIC APPLICATIONS				,		
PLASTIC SHEETING	X	X	Х	Х		Х
MATTING		3.05.1				
DUST CONTROL	X	X	Х	Х		
TEMPORARY/ PERMANENT SEEDING	X	X	X	X	Х	X
BUFFER ZONE						
IER:						····
SEDIMENT CONTROL						
SEDIMENT FENCE (PERIMETER)	Х	Х	Х	Х		X
SEDIMENT FENCE (INTERIOR)	1	-				
STRAW WATTLES						
FILTER BERM						
INLET PROTECTION	X	X	Х	X		X
DEWATERING						
SEDIMENT TRAP						
NATURAL BUFFER ENCROACHMENT	* X	* X	*X	* X	*X	* X
ER:						
RUN OFF CONTROL						
CONSTRUCTION ENTRANCE	Х	X	X	X		X
PIPE SLOPE DRAIN						
OUTLET PROTECTION						
SURFACE ROUGHENING						
CHECK DAMS	X	X	Х	X	X	Х
IER:						
POLLUTION PREVENTION						
PROPER SIGNAGE	X	X	X	X	-	X
HAZ WASTE MGMT	X	$\frac{\hat{\mathbf{x}}}{\mathbf{x}}$	X	x		X
SPILL KIT ON-SITE	X	X	X	x	· · · · · · · · · · · · · · · · · · ·	x
CONCRETE WASHOUT AREA	$\hat{\mathbf{x}}$	$-\hat{\mathbf{x}}$	X	x		X
IER:	1					^
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** SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP's WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEFD TO REVISE THE ESC PLAN. AN ACTION PLAN WILL BE SUBMITTED.

201

	INSPECTION FREQUENCY:	INITIAL /SIZA
	SITE CONDITION	MINIMUM FREQUENCY
1.	ACTIVE PERIOD	WEEKLY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING. AT LEAST ONCE EVERY MONTH, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2.	PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3.	INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY MONTH.
4.	PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.
5.	PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO FROZEN CONDITIONS.	MONTHLY, RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

SHEET INDEX

EROSION AND SEDIMENT CONTROL PLANS

- ESC COVER SHEET
- ESC CLEARING AND DEMOLITION
- ESC GRADING AND UTILITY
- EC4 ESC DETAILS

- HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-CN PERMIT
 - REQUIREMENTS. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT REQUIREMENTS.
- RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.

ESC - COVER SHEET WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

EC₁

SHR-13

EXPIRES: 12/31/17



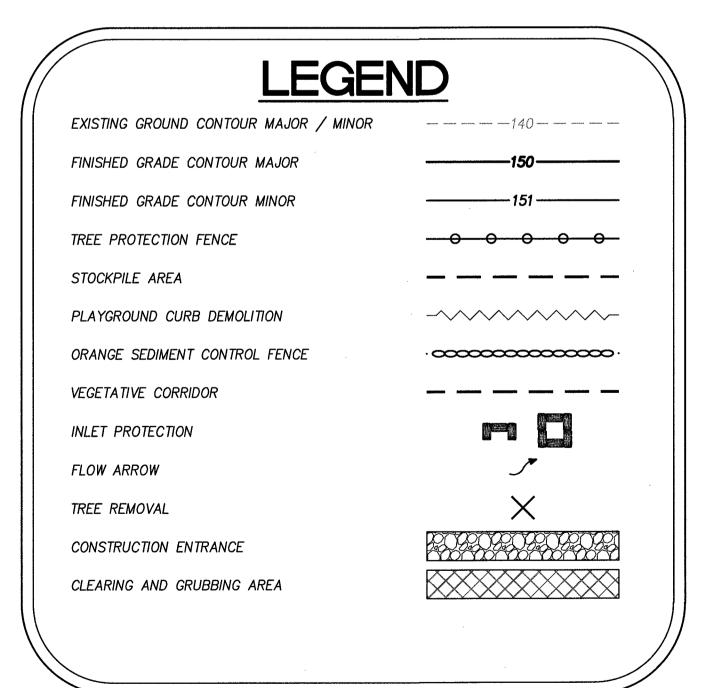
Harper HHPP Houf Peterson Righellis Inc.

LANDSCAPE ARCHITECTS + SURVEYORS 205 SE Spokane Street, Suite 200, Portland, OR 97202 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

- 1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE <u>SEDIMENT FENCE</u>, <u>BERMS CONSTRUCTED OUT OF</u> MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED <u>MATERIALS.</u>
- 3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
- 4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.
- * NOTE: PRE-DEVELOPED RUN-OFF SHEET FLOWS EASTERLY INTO ON-SITE DRAINAGE AND NORTHERLY ONTO ADJACENT PROPERTIES.

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

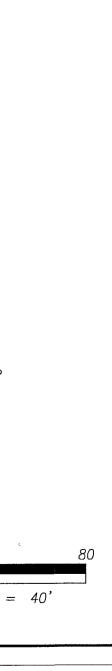




DESCRIPTION

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DATE NO.

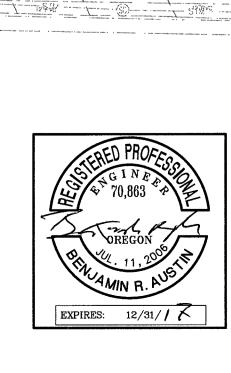


DESIGNED:

DRAWN:

CHECKED:

APRIL 2016





205 SE Spokane Street, Suite 200, Portland, OR 97202 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

SW SUNSET BLVD.

- VEGETATED CORRIDOR

ESC - CLEARING AND DEMOLITION WOODHAVEN PARK PHASE 2 SHERWOOD, OREGON

EC2

