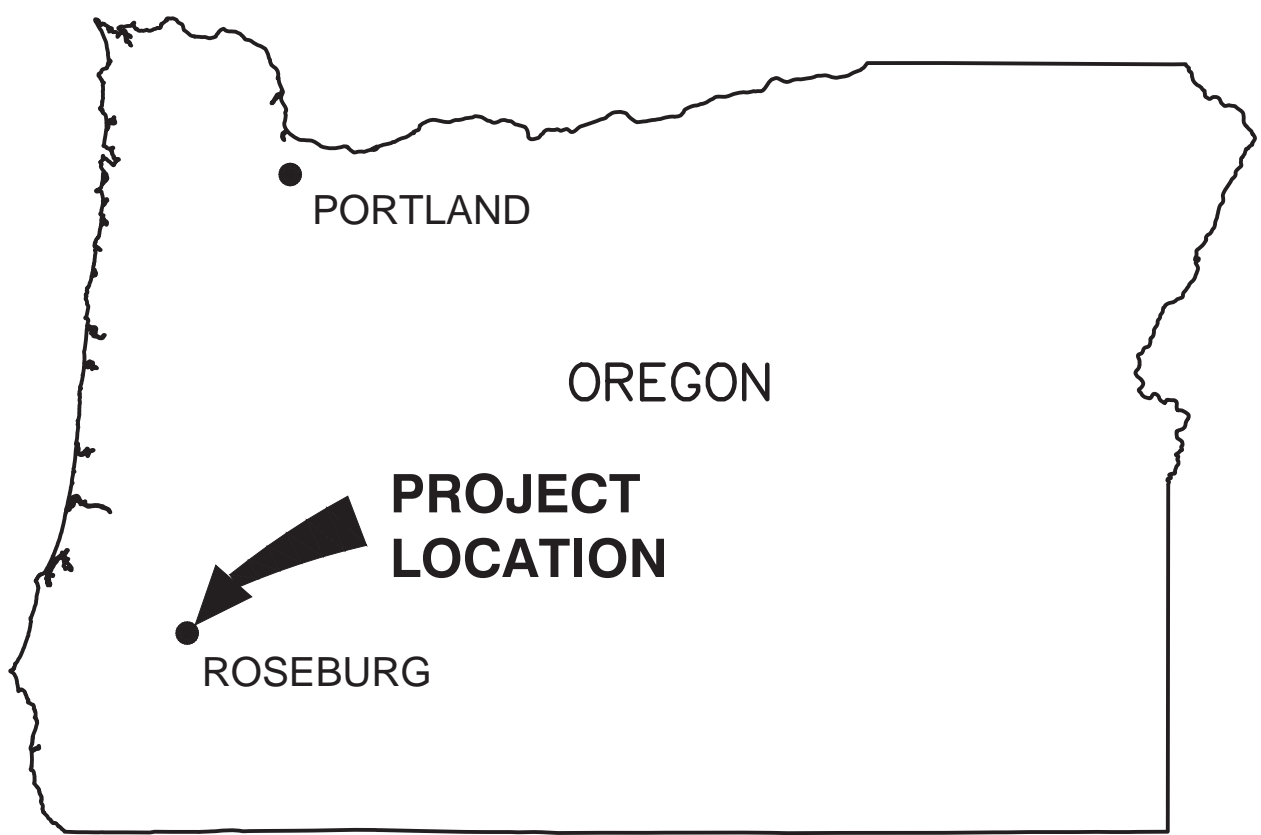


CITY OF ROSEBURG

WASHINGTON AVE BORE CROSSING

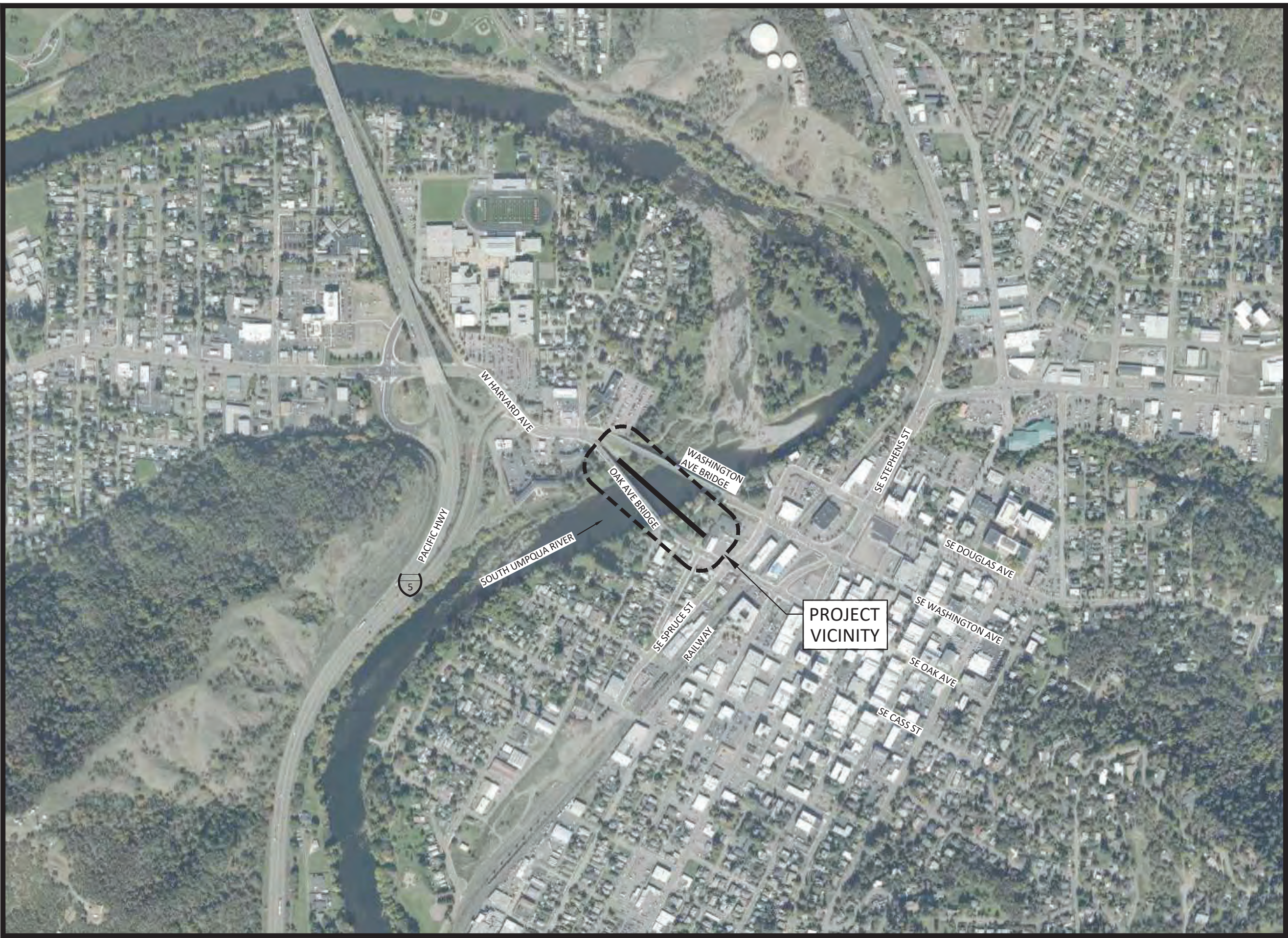
PROJECT #20WA05

ROSEBURG, OREGON



REGIONAL MAP

NTS



VICINITY MAP

NTS



INDEX OF DRAWINGS	
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G-2	GENERAL NOTES, SURVEY NOTES, ABBREVIATIONS, AND CONTACTS
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TC-3	ACCESS FROM BRIDGE DECK FOR PIPE ABANDONMENT TRAFFIC CONTROL PLAN
TC-4	TRAFFIC SIDEWALK RAMP DETAILS

0	4/30/2021	LE	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	



WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF ROSEBURG	DESIGNED <u>J. QUINN</u>	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING	DRAWN <u>K. RUSTON</u>	
COVER SHEET, REGIONAL MAP, VICINITY MAP AND INDEX OF DRAWINGS	CHECKED <u>L. ERICKSON</u>	DRAWING <b>G-1</b>
	DATE <u>04/30/2021</u>	







SHEET SYMBOLS				SITE PLAN LINE TYPES				SITE PLAN SYMBOLS				MISCELLANEOUS SYMBOLS				HATCH SYMBOLS							
<div>PLAN</div> <div>SCALE: 1/2"= 1'-0"</div> <div></div>								<div>ARROW INDICATES DIRECTION OF PLAN NORTH</div> <div>△ SURVEY CONTROL POINT (AS DESCRIBED)</div> <div>● FOUND PROPERTY CORNER MONUMENT</div> <div>○ SET 5/8"x30" IRON ROD W/ YPC MARKED "LAND MARK SURVEYING, INC."</div> <div>▲ OREGON DEPARTMENT OF TRANSPORTATION ALUMINUM CAP</div> <div>⊕ CHISELED "X" IN BRIDGE BENT - REFERENCE TO DONATION LAND CLAIM CORNER</div> <div>TREES-DECIDUOUS</div> <div>EXISTING GAS PIG</div> <div>EXISTING WATER BLOWOFF</div> <div>EXISTING WATER VALVE</div> <div>EXISTING WATER METER BOX</div> <div>• EXISTING HOSE BIBB</div> <div>Ⓢ EXISTING SANITARY MANHOLE (MH)</div> <div>EXISTING CLEANOUT</div> <div>EXISTING STORM MANHOLE</div> <div>□ EXISTING CATCH BASIN (CB)</div> <div>EXISTING TELEPHONE PEDESTAL</div> <div>⊙✕ EXISTING STREET LIGHT</div> <div>EXISTING ELECT. METER BASE</div> <div>EXISTING TRANSFORMER</div> <div>EXISTING HANDICAP PARKING SPACE</div> <div>EXISTING SIGN</div> <div>EXISTING FIRE HYDRANT</div> <div>EXISTING VAULT (AS NOTED)</div> <div>EXISTING UTILITY POLE</div> <div>EXISTING FIRE DEPARTMENT CONNECTION</div> <div>BOREHOLE LOCATION</div>				<div>CHANGE OF PIPE MTL</div> <div>OR END OF PIPE</div> <div>℄ CENTERLINE</div> <div>∅ DIAMETER</div> <div>∟ ANGLE</div> <div>℞ PLATE</div> <div>± PLUS/MINUS</div>											
<div>SECTION IDENTIFICATION</div> <div>(1) SECTION CUT ON DRAWING C102:</div> <div></div> <div>(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:</div> <div>SECTION VIEW</div> <div>SCALE: 1/2"= 1'-0"</div> <div></div> <div>DETAIL IDENTIFICATION</div> <div>(1) DETAIL CALL-OUT ON DRAWING C102:</div> <div></div> <div>(2) ON DRAWING C103 THIS SECTION IS IDENTIFIED AS:</div> <div>DETAIL</div> <div>SCALE: 1/2"= 1'-0"</div> <div></div> <div>*NOTE: IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING. DRAWING NUMBER IS REPLACED BY A LINE.</div>				<div>OVERHEAD POWER</div> <div>MAJOR CONTOUR</div> <div>MINOR CONTOUR</div> <div>EDGE OF WATERLINE</div> <div>SANITARY SEWER</div> <div>STORM DRAIN</div> <div>EDGE OF PAVEMENT</div> <div>EDGE OF GRAVEL</div> <div>GAS LINE</div> <div>WATER LINE</div> <div>TELEPHONE LINE</div> <div>COMMUNICATION LINE</div> <div>OVERHEAD ELECTRICAL/POWER</div> <div>UNDERGROUND ELECTRICAL</div> <div>PROPERTY LINE</div> <div>EASEMENT</div> <div>RIGHT OF WAY</div> <div>EXISTING FENCE LINE</div> <div>SILT FENCING</div>																			
<div>STANDARD DETAIL IDENTIFICATION</div> <div>(1) DETAIL CALL-OUT ON PLAN OR SECTION:</div> <div></div> <div>(2) ON DETAIL DRAWINGS, IDENTIFIED AS:</div> <div>DETAIL</div> <div></div> <div>IMAGE IDENTIFICATION</div> <div></div>				<div>WARNING</div> <div></div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.</div>				<div></div>															
												CITY OF ROSEBURG				DESIGNED <u>J. QUINN</u>				WORK DESIGNATION			
												WASHINGTON AVE BORE CROSSING				DRAWN <u>K. RUSTON</u>							
												STANDARD SYMBOLS				CHECKED <u>L. ERICKSON</u>				DRAWING			
																DATE <u>04/30/2021</u>				G-3			





PLAN

SCALE: 1"= 80'-0"



0	4/30/2021	LE	ISSUED FOR BID
REV	DATE	BY	DESCRIPTION



WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

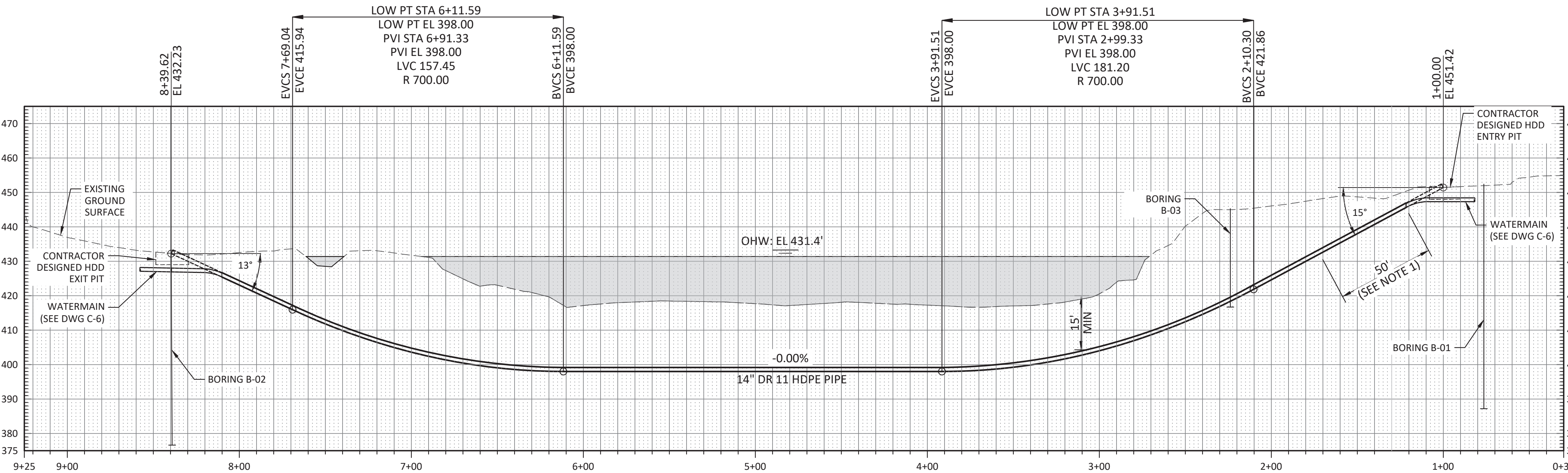
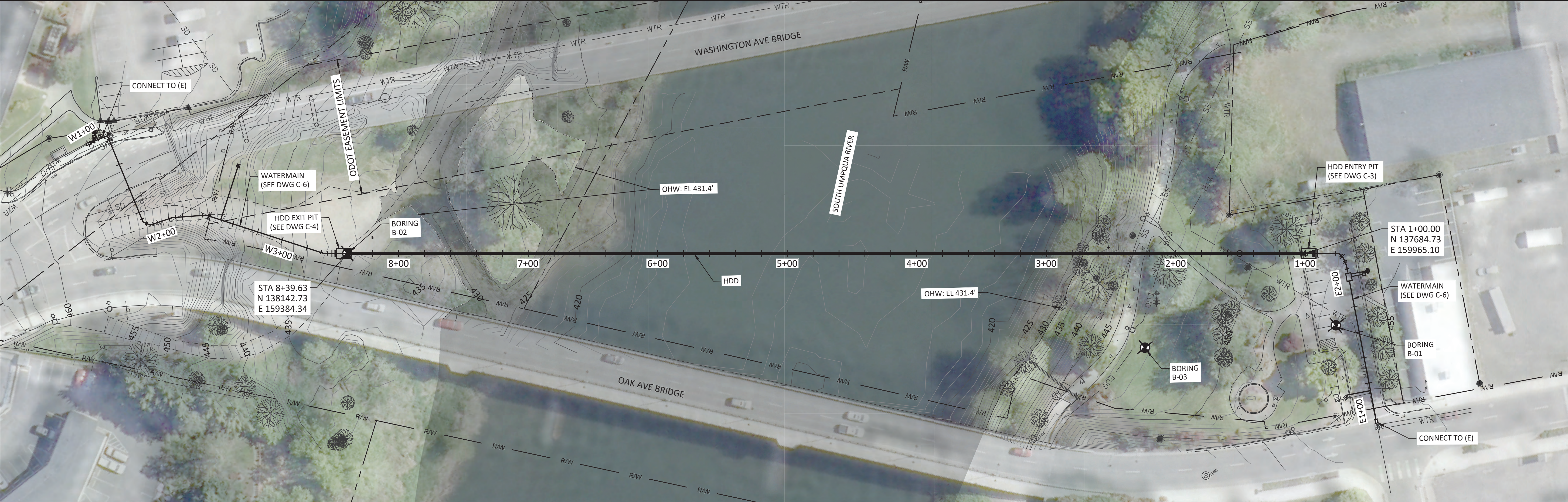


CITY OF ROSEBURG
WASHINGTON AVE BORE CROSSING
PROJECT LAYOUT

DESIGNED	J. QUINN
DRAWN	K. RUSTON
CHECKED	L. ERICKSON
DATE	04/30/2021

WORK DESIGNATION
DRAWING
C-1





- NOTES:
- CONTRACTOR SHALL GROUT THE ANNULAR SPACE BETWEEN THE PIPELINE AND EXCAVATED BOREHOLE.

0	4/30/2021	LE	ISSUED FOR BID
REV	DATE	BY	DESCRIPTION



WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF ROSEBURG		DESIGNED <u>J. QUINN</u>	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN <u>K. RUSTON</u>	
HDD PLAN AND PROFILE		CHECKED <u>L. ERICKSON</u>	DRAWING
		DATE <u>04/30/2021</u>	C-2





PLAN

SCALE: 1"= 20'



NOTES:

1. MODIFICATIONS TO WORK AREA LIMITS MUST BE COORDINATED WITH THE CITY AND WILL NEED TO REMAIN WITHIN CITY RIGHT OF WAY.
2. RESTORE SIDEWALK, CURB, GUTTER, AND PAVEMENT IF REMOVED OR DAMAGED.
3. ALL TREES SHALL BE PROTECTED FROM DAMAGE FROM CONSTRUCTION ACTIVITIES.
4. INSTALL AND MAINTAIN SECURITY FENCING AROUND CONSTRUCTION WORK AREA PERIMETERS
5. COVER PIT WITH STEEL PLATE OR APPROVED EQUIVALENT DURING NON-WORK HOURS.
6. INSTALL SECONDARY CONTAINMENT FOR DRILLING FLUIDS PRIOR TO START OF DRILLING.

0	4/30/2021	LE	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	

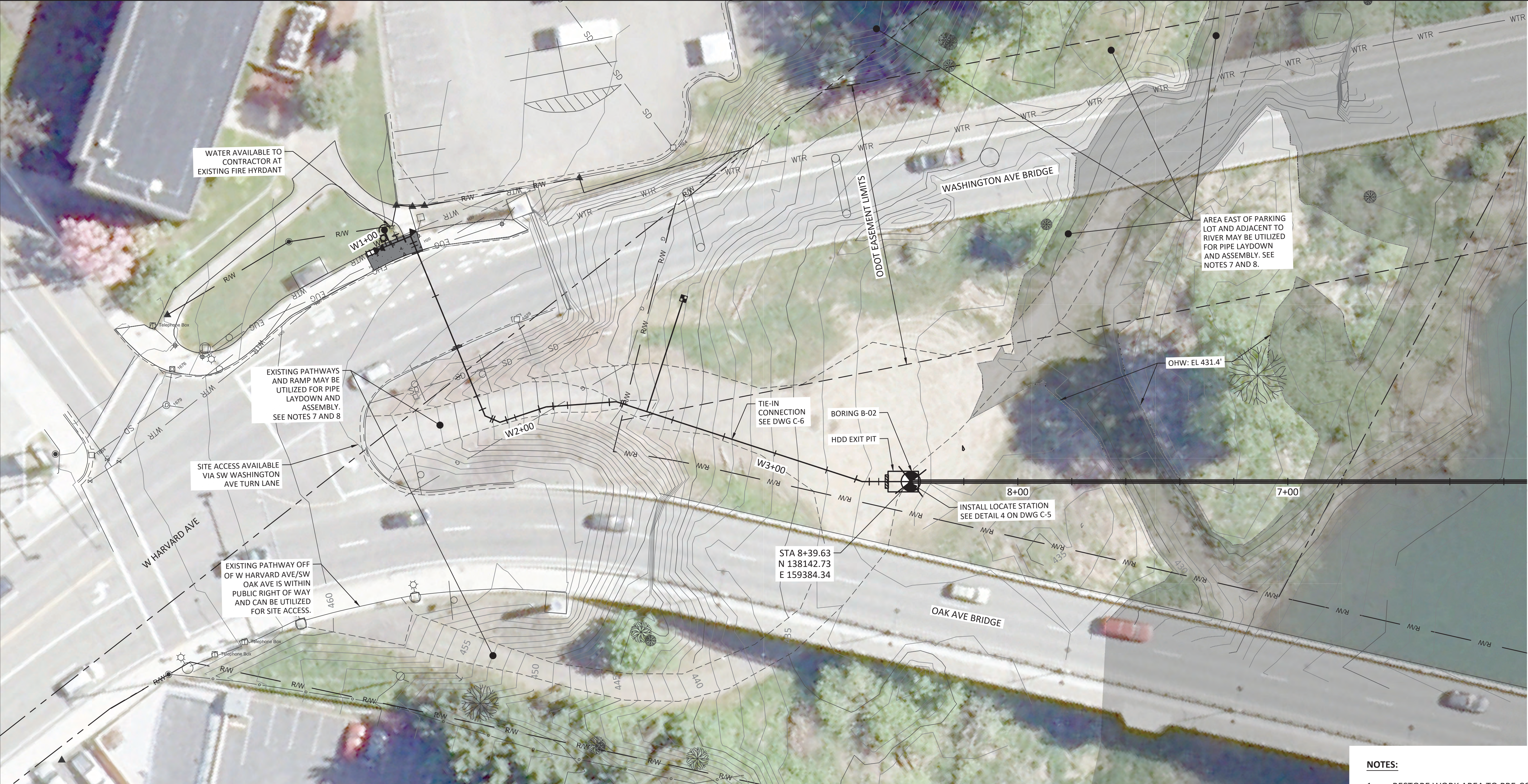


WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF ROSEBURG		DESIGNED	J. QUINN	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN	K. RUSTON	
HDD ENTRY		CHECKED	L. ERICKSON	DRAWING
		DATE	04/30/2021	C-3





**PLAN**  
SCALE: 1"= 20'

- NOTES:**
1. RESTORE WORK AREA TO PRE-CONSTRUCTION CONDITIONS.
  2. ALL TREES SHALL BE PROTECTED FROM DAMAGE FROM CONSTRUCTION ACTIVITIES.
  3. INSTALL AND MAINTAIN SECURITY FENCING AROUND CONSTRUCTION WORK AREA PERIMETERS.
  4. COVER PIT WITH STEEL PLATE OR APPROVED EQUIVALENT DURING NON-WORK HOURS.
  5. INSTALL SECONDARY CONTAINMENT FOR DRILLING FLUIDS PRIOR TO START OF DRILLING.
  6. EXCAVATION OR PLACEMENT OF FILL WITHIN OR BELOW OHV LIMITS IS NOT PERMITTED.
  7. MAINTAIN AND ALLOW ACCESS FOR PRIVATE PROPERTY OWNER AND HIS ASSOCIATES THROUGH THE WORK AREA AT ALL TIMES. NO EQUIPMENT SHALL BE STORED IN SUCH A MANNER THAT IT BLOCKS ACCESS TO THE SITE OR ALONG THE EXISTING GRAVEL ROADWAY ADJACENT TO THE RIVER.
  8. THE CITY HAS OBTAINED TEMPORARY CONSTRUCTION EASEMENTS WITH PROPERTY OWNERS AT THE HDD EXIT LOCATION. CONTRACTOR SHALL SUBMIT ITS PLAN FOR CONSTRUCTION STAGING AND PIPE LAYDOWN TO THE CITY FOR APPROVAL BEFORE STARTING WORK. COORDINATE AND OBTAIN CITY APPROVAL FOR LAYDOWN AND ASSEMBLY OF PIPE EAST OF EXISTING PARKING LOT AND ADJACENT TO RIVER
  9. DO NOT EXCEED HDPE PIPE MANUFACTURER'S WRITTEN RECOMMENDATION FOR BEND RADIUS DURING PIPE LAYDOWN, ASSEMBLY, AND PULLBACK.

0	4/30/2021	LE	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	

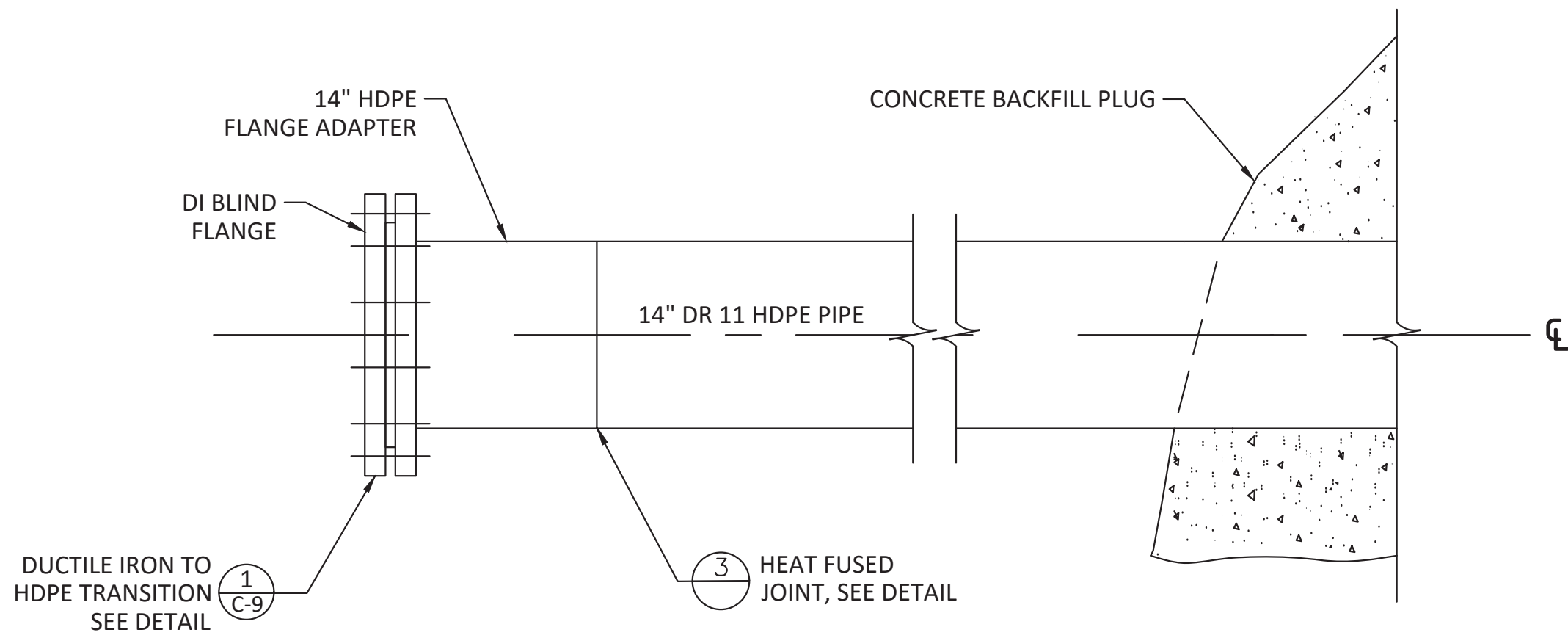


**WARNING**  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

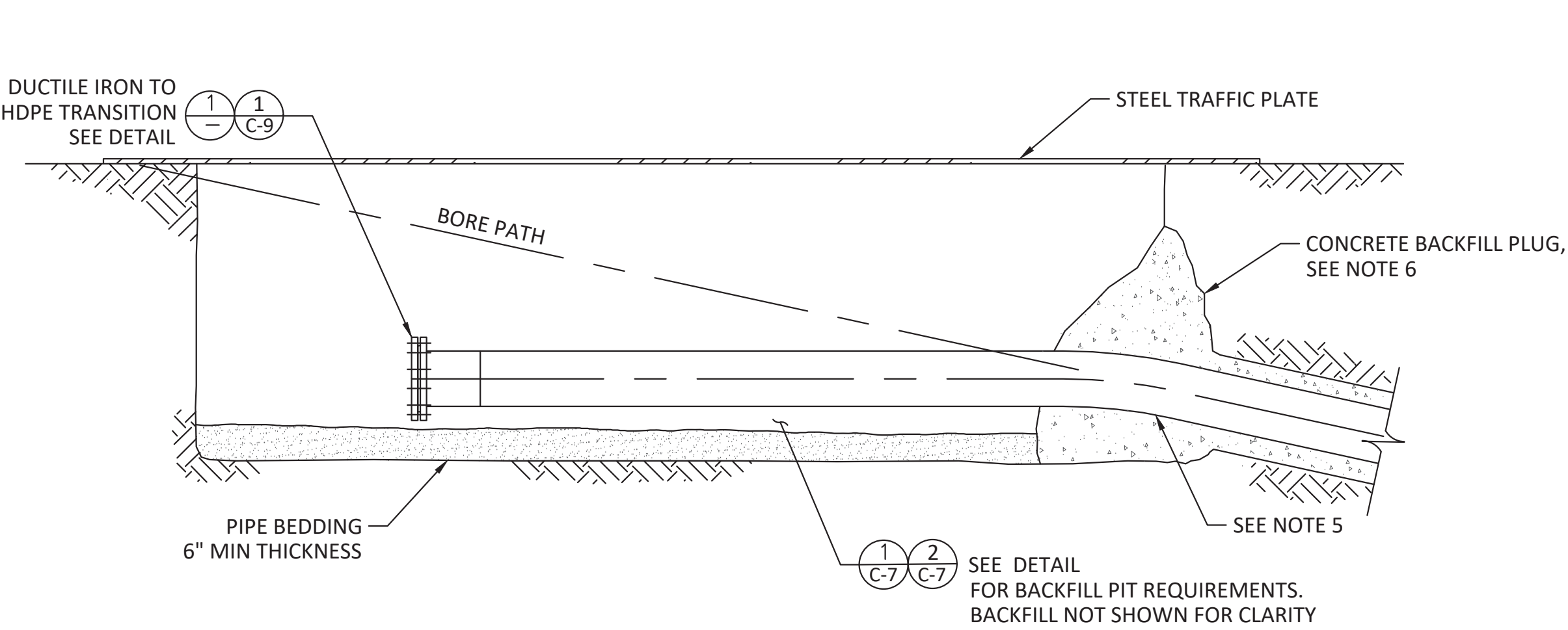


CITY OF ROSEBURG		DESIGNED	J. QUINN	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN	K. RUSTON	
HDD EXIT		CHECKED	L. ERICKSON	DRAWING
		DATE	04/30/2021	C-4

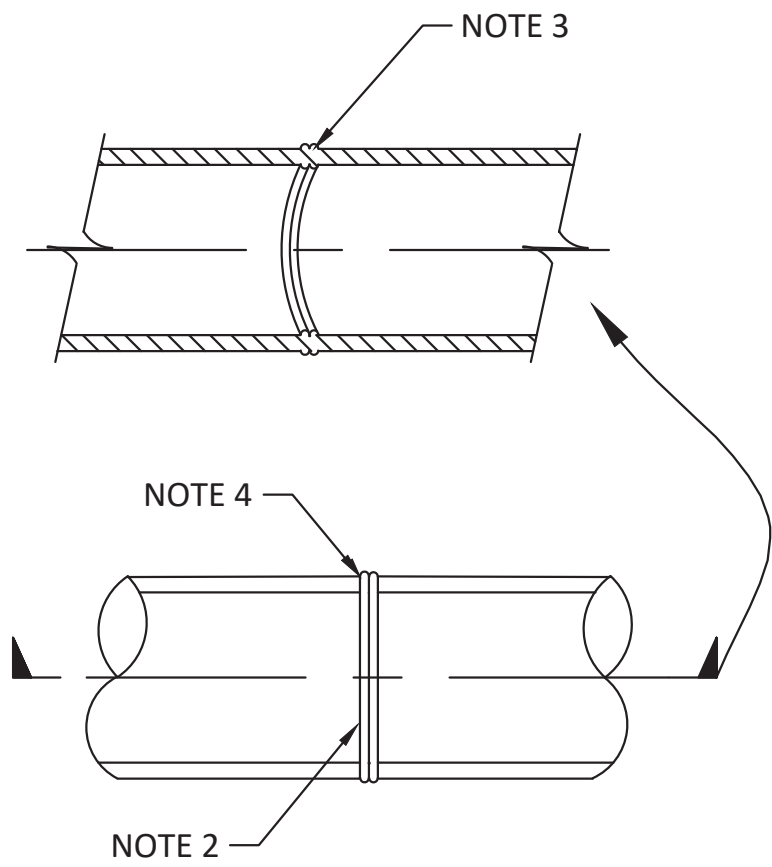




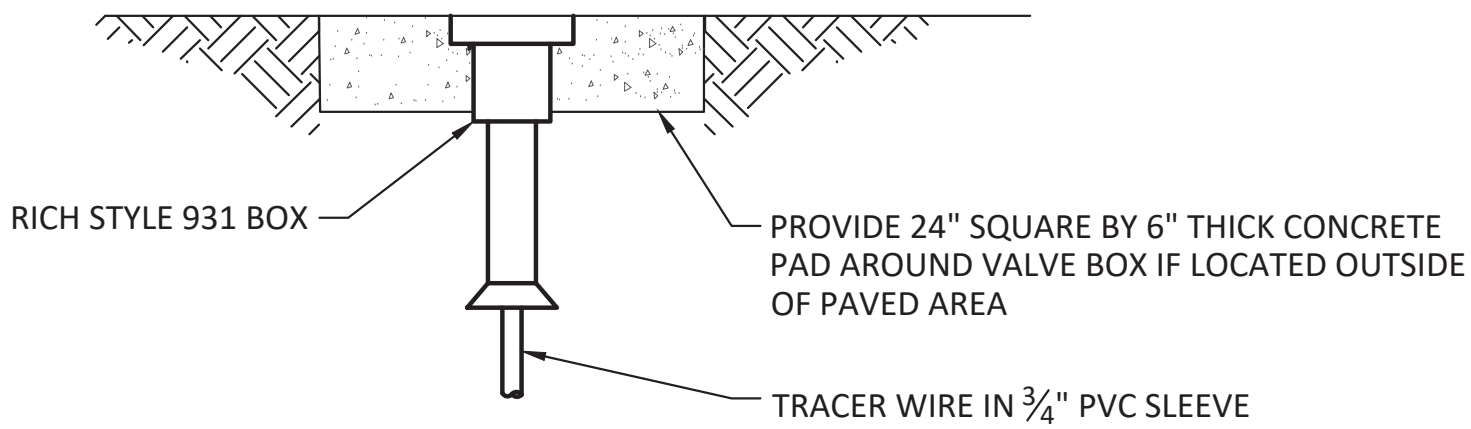
HDPE FLANGE ADAPTER DETAIL 1  
SCALE: NTS



HDD TERMINATION/PIT DETAIL 2  
SCALE: NTS



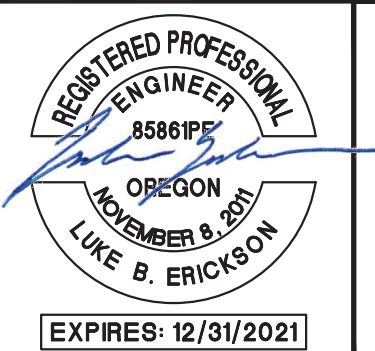
TYPICAL HDPE JOINT HEAT FUSION DETAIL 3  
SCALE: NTS



LOCATE STATION DETAIL 4  
SCALE: NTS

- NOTES:
1. REMOVE DRILL MUD BEFORE PLACING CONCRETE BACKFILL PLUG, PIPE BEDDING, BACKFILLING, AND INSTALLATION OF FLANGE AND BACKER RING.
  2. DOUBLE ROLL BACK BEAD.
  3. MELT, PRESSURE AND ALIGNMENT PER MANUFACTURER'S RECOMMENDATIONS.
  4. ALIGNMENT-NO GAP OR VOIDS.
  5. MAINTAIN MINIMUM RADIUS OF CURVATURE OF INSTALLED HDPE PIPE AS SHOWN ON DWG C-6.
  6. CONCRETE BACKFILL PLUG SHALL EXTEND A MINIMUM OF 3 FEET INTO THE BORE AND 2 FEET INTO THE PIT FOR A TOTAL MINIMUM PLUG LENGTH OF 5 FEET. PLUG SHALL PROVIDE MINIMUM 2 FEET COVER ABOVE TOP OF PIPE WITHIN THE PIT.

0	4/30/2021	LE	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	

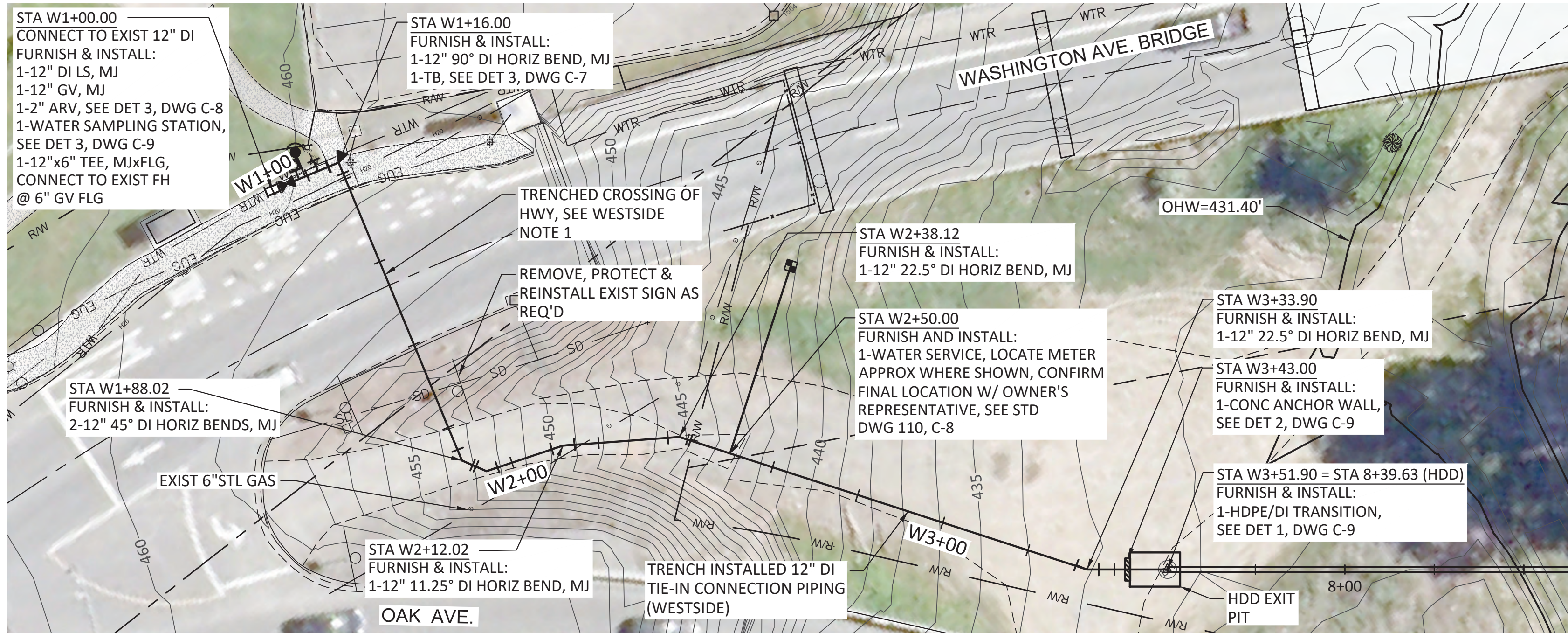


WARNING  
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



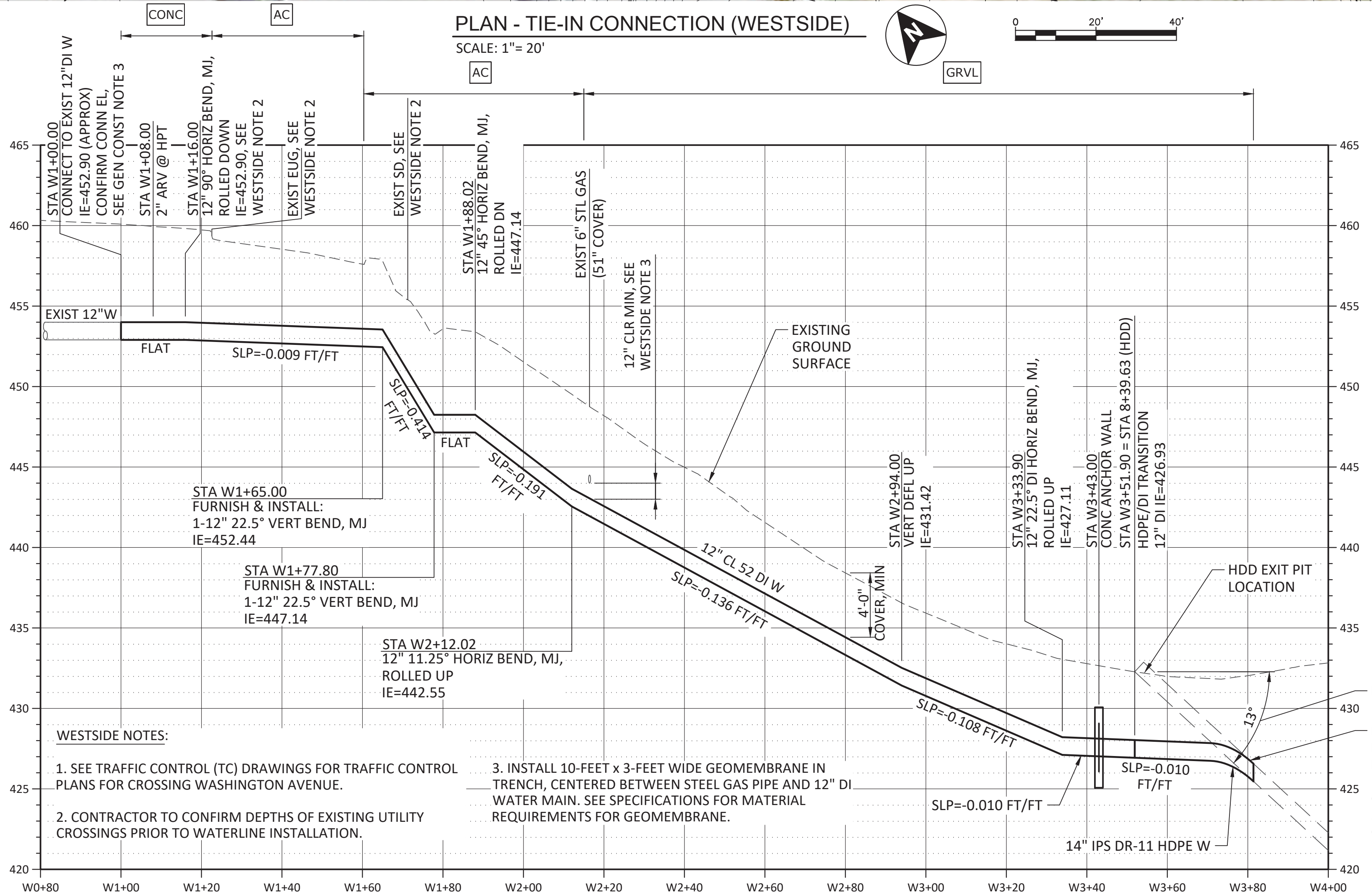
CITY OF ROSEBURG		DESIGNED	J. QUINN	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN	K. RUSTON	
HDD DETAILS		CHECKED	L. ERICKSON	DRAWING
		DATE	04/30/2021	C-5





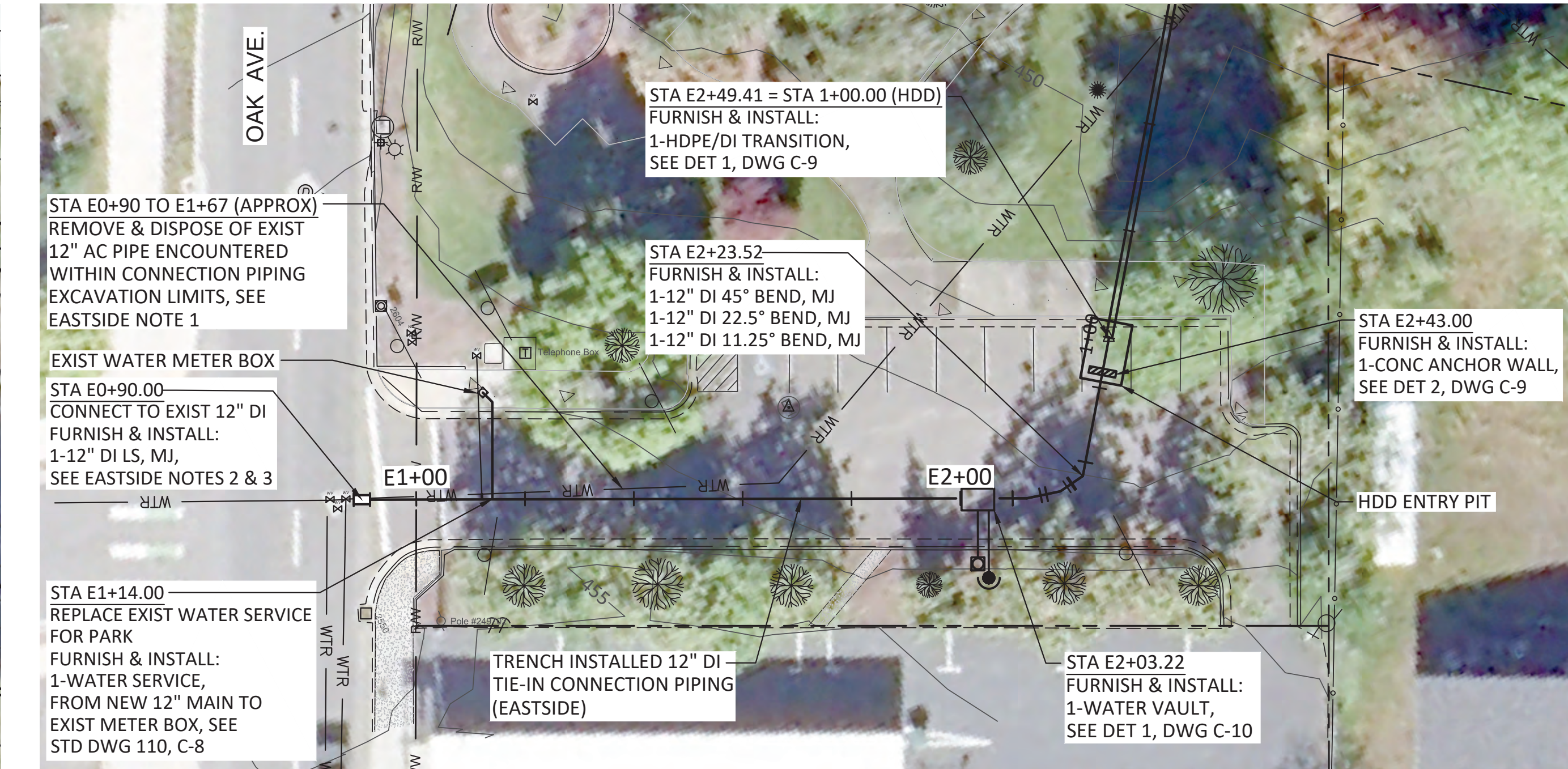
PLAN - TIE-IN CONNECTION (WESTSIDE)

SCALE: 1"= 20'



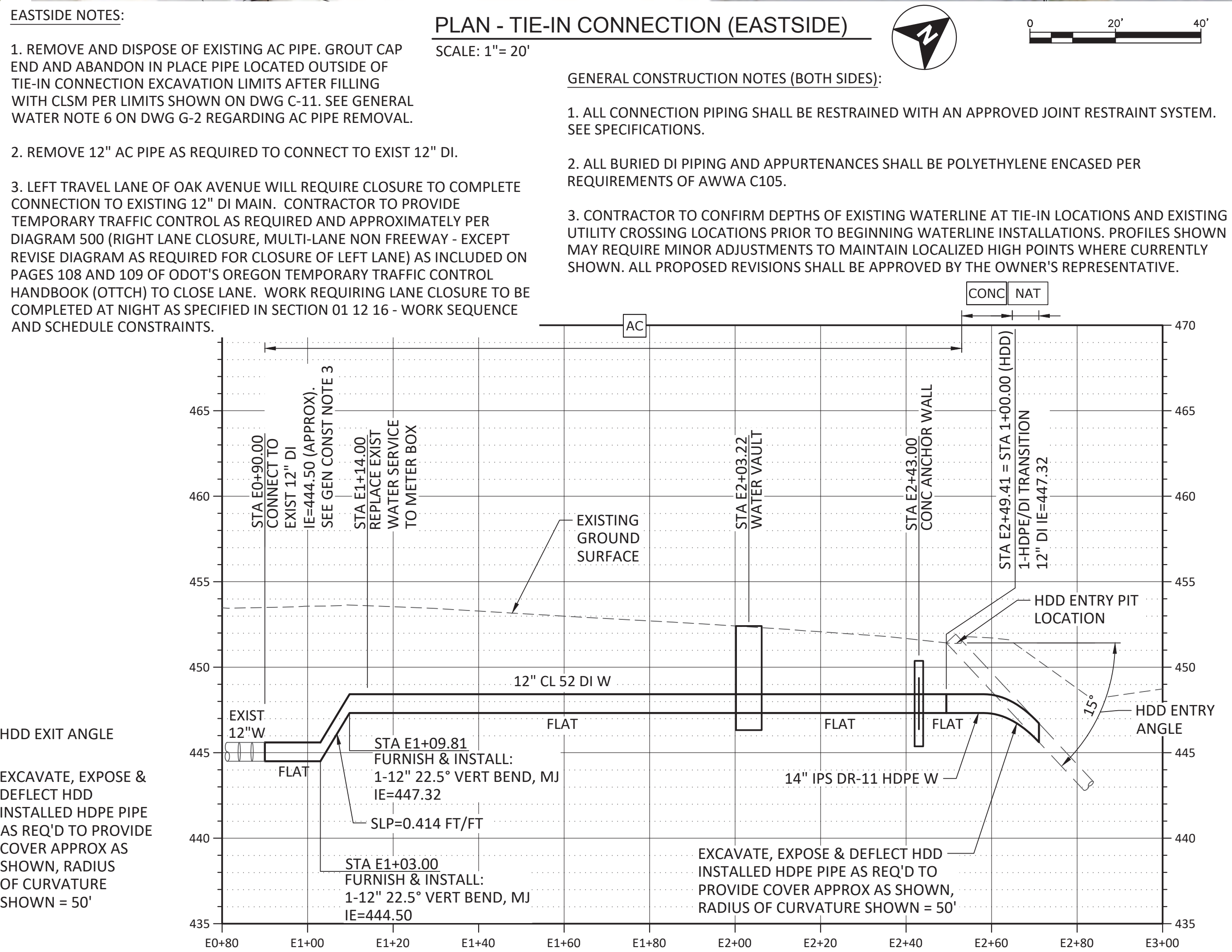
PROFILE - TIE-IN CONNECTION (WESTSIDE)

SCALE: 1"=20' H  
1"=5' V



PLAN - TIE-IN CONNECTION (EASTSIDE)

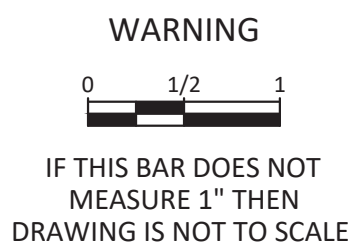
SCALE: 1"= 20'



PROFILE - TIE-IN CONNECTION (EASTSIDE)

SCALE: 1"=20' H  
1"=5' V

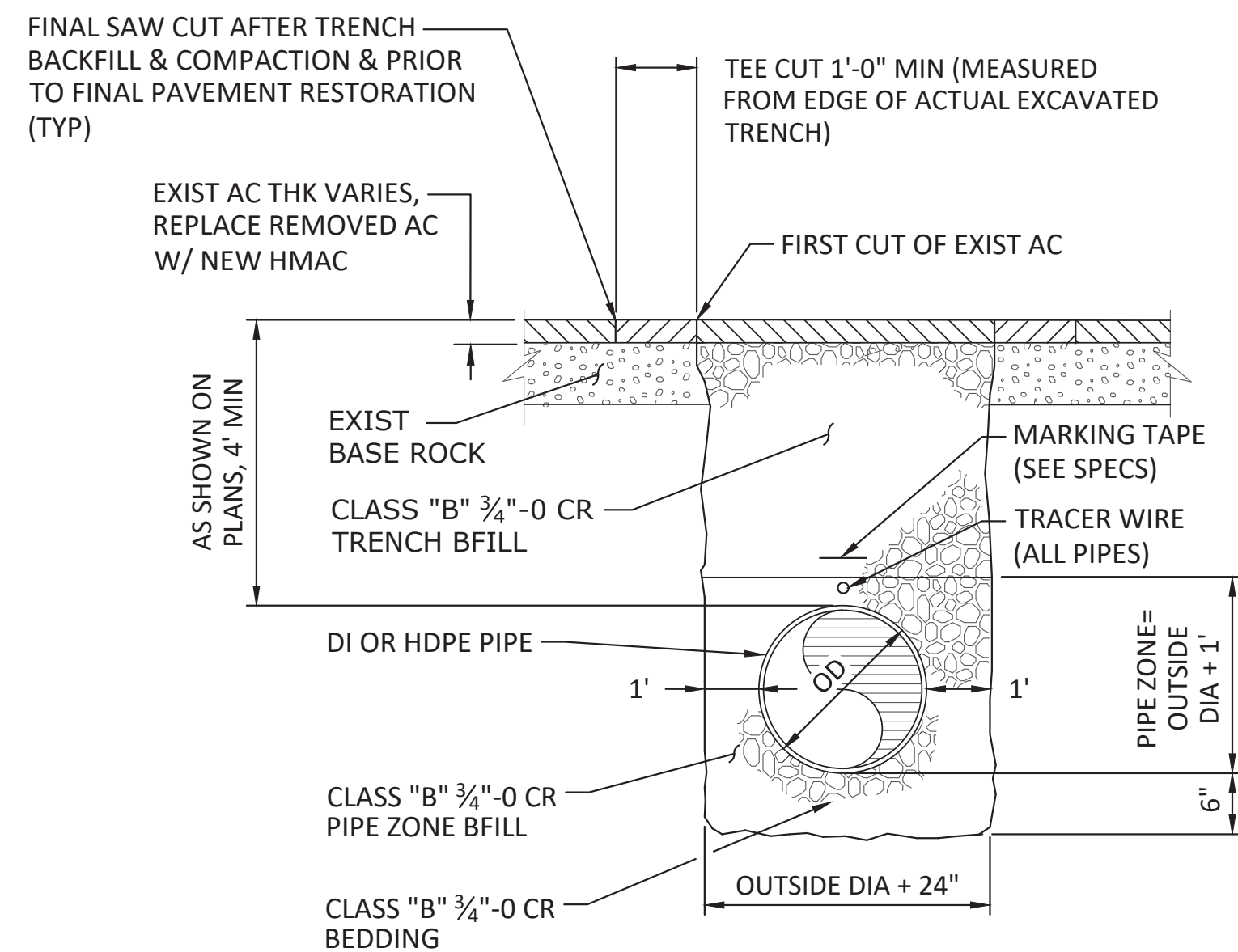
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REV	DATE	BY	DESCRIPTION		



CITY OF ROSEBURG
WASHINGTON AVE BORE CROSSING
CONNECTIONS TO EXISTING BURIED PIPING PLAN AND PROFILE - EAST AND WEST ENDS

DESIGNED	B. FALK	WORK DESIGNATION
DRAWN	K. HARJALA	DRAWING
CHECKED	J. LUCE	C-6
DATE	04/30/2021	





- NOTES:

1. USE ¾"-0 CRUSHED ROCK BEDDING AND PIPE ZONE BACKFILL AT ALL LOCATIONS. COMPACT TO ACHIEVE 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-99.

2. FURNISH AND INSTALL ¾"-0 CR TRENCH BACKFILL TO PAVEMENT BASE OR EXISTING GRADE. COMPACT ALL ¾"-0 BACKFILL IN LIFTS TO ACHIEVE 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-99.

3. REFER TO SPECIFICATIONS FOR OTHER BACKFILL/ BEDDING REQUIREMENTS.

4. REPLACE REMOVED ASPHALT WITH LEVEL 3, 1/2" DENSE HMAC. MATCH EXISTING AC THICKNESS OR 8" ON WASHINGTON AVENUE, 6" ON OAK AVENUE, AND 3" ELSEWHERE, WHICHEVER IS THICKER. FOR TRENCH PATCH PAVING ON WASHINGTON AVENUE AND OAK AVENUE, MAXIMUM AC BASE COURSE LIFTS SHALL BE 3"; MAX WEARING COURSE LIFT SHALL BE 2".

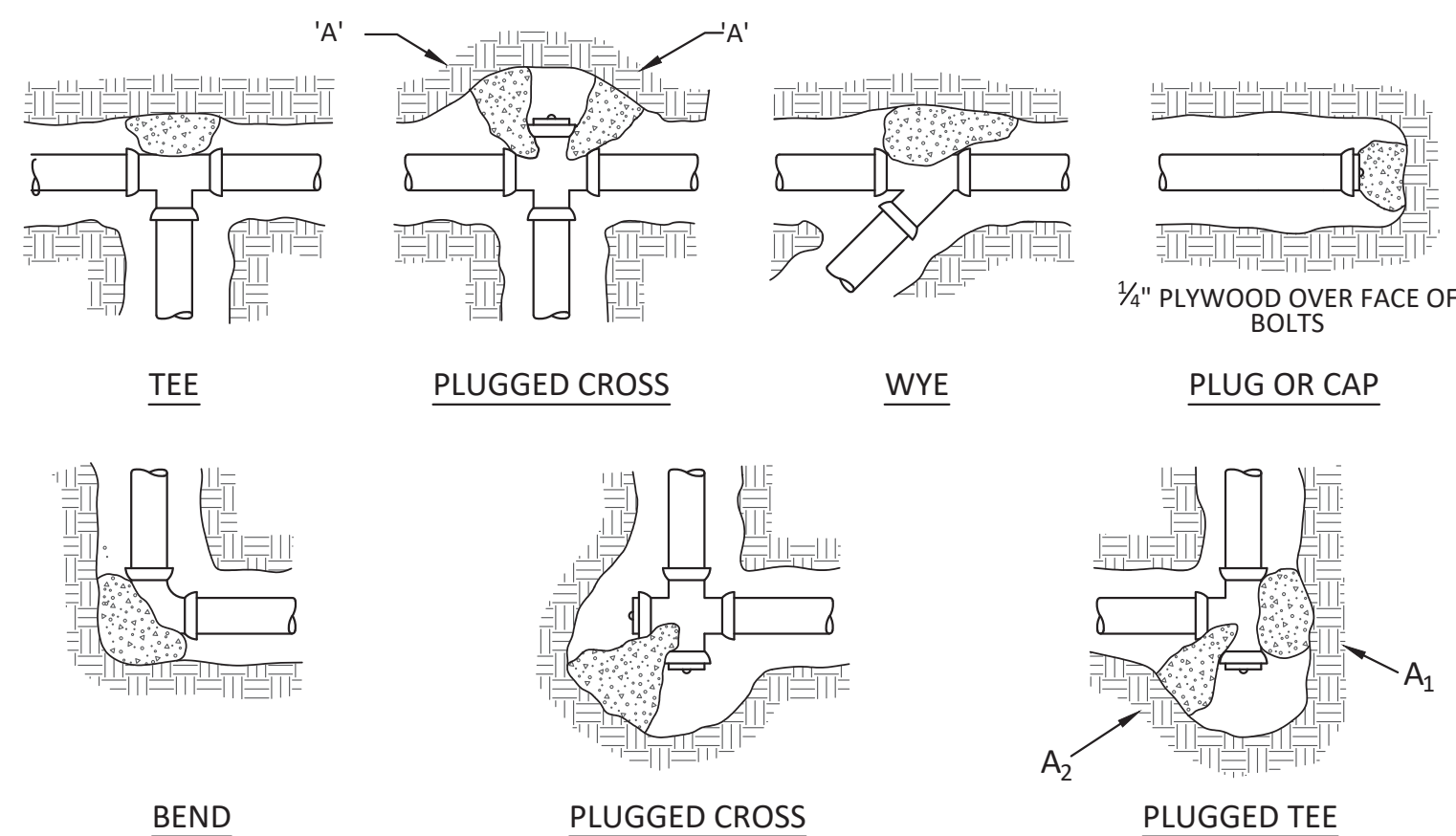
5. AT THE END OF EACH WORKDAY, ALL OPEN TRENCHES SHALL BE BACKFILLED TO THE TOP OF THE TRENCH. PRIOR TO OPENING TO TRAFFIC ALL TRENCHES WITHIN THE ROADWAY SHALL BE TEMPORARILY OR PERMANENTLY PAVED TO MATCH THE ADJACENT PAVEMENT GRADE. TEMPORARY TRENCH PAVEMENT SHALL BE 2-INCH THICK MINIMUM.

6. REPLACE EXISTING GRAVEL BASE DISTURBED BY THE TRENCHING AND TREE CUTTING OPERATIONS.

7. INSTALL MARKER BALLS IN TRENCH BACKFILL IN REQUIRED LOCATIONS. SEE GENERAL WATER NOTE 7, DRAWING G-2.

## SINGLE PIPE TRENCH DETAIL - ROADWAYS AND SIDEWALKS

SCALE: NTS



- NOTES:

1. CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.

2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES. INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING BLOCKING.

3. THE REQUIRED THRUST BEARING AREAS FOR SPECIAL CONNECTIONS ARE SHOWN ENCIRCLED ON THE PLANS; e.g. 15 INDICATES 15 SQUARE FEET BEARING AREA REQUIRED

4. IF NOT SHOWN ON PLANS, REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED IN TABLE, ADJUSTED IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIFICATIONS.

5. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS DETAIL.

6. CONCRETE SHALL BE 3000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.

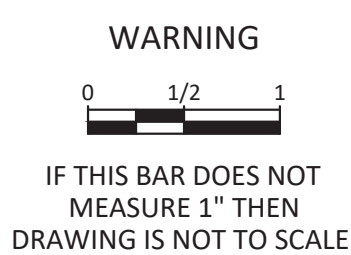
7. BEARING AREAS WHERE EXISTING PIPE WILL BE ABANDONED IN PLACE, AS SHOWN ON PLANS, SHALL INCLUDE  $\frac{1}{2}$ " STEEL PLATE AT THE BASE OF THE THRUST BLOCK. THE MINIMUM BEARING AREA OF THE STEEL PLATE SHALL BE BASED ON DATA FROM THE TABLE.

BEARING AREA, 'A', OF THRUST BLOCKS IN SQUARE FEET							
FITTING SIZE	TEE, WYE, PLUG OR CAP	90° BEND, PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22° BEND	11.25° BEND
	A	A	A <sub>1</sub>	A <sub>2</sub>	A	A	A
4	1.4	1.9	2.7	1.9	1.0	-	-
6	2.8	4.0	5.6	4.0	2.1	1.1	-
8	4.8	6.8	9.6	6.8	3.7	1.9	0.9
10	7.3	10.3	14.5	10.3	5.6	2.8	1.4
12	10.3	14.5	20.4	14.5	7.9	4.0	2.0
14	13.8	19.5	27.5	19.5	10.6	5.4	2.7
16	17.8	25.2	35.5	25.2	13.6	7.0	3.5
18	22.4	31.7	44.7	31.7	17.1	8.7	4.4
20	27.5	38.9	54.8	38.9	21.0	10.7	5.4
24	39.2	55.5	78.3	55.5	30.0	15.3	7.7

\*ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA=(TEST PRESSURE/150) X (2000/SOIL BEARING STRESS) X (TABLE VALUE).

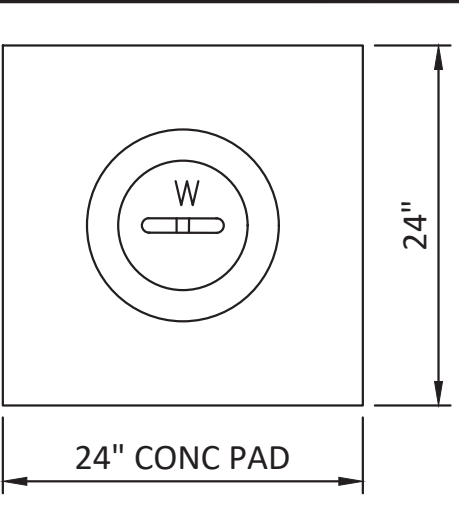
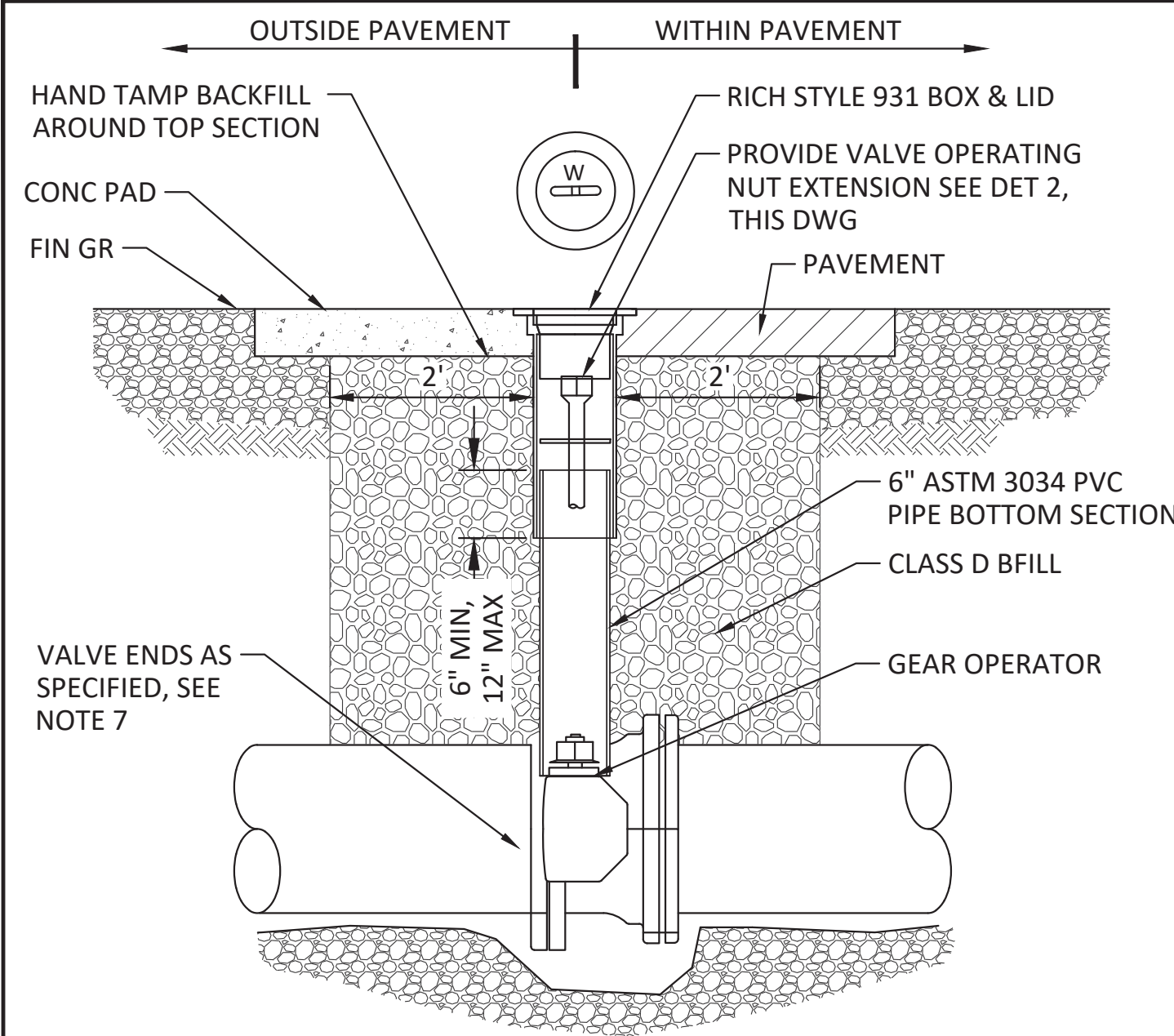
## STANDARD THRUST BLOCK DETAILS

SCALE: NTS



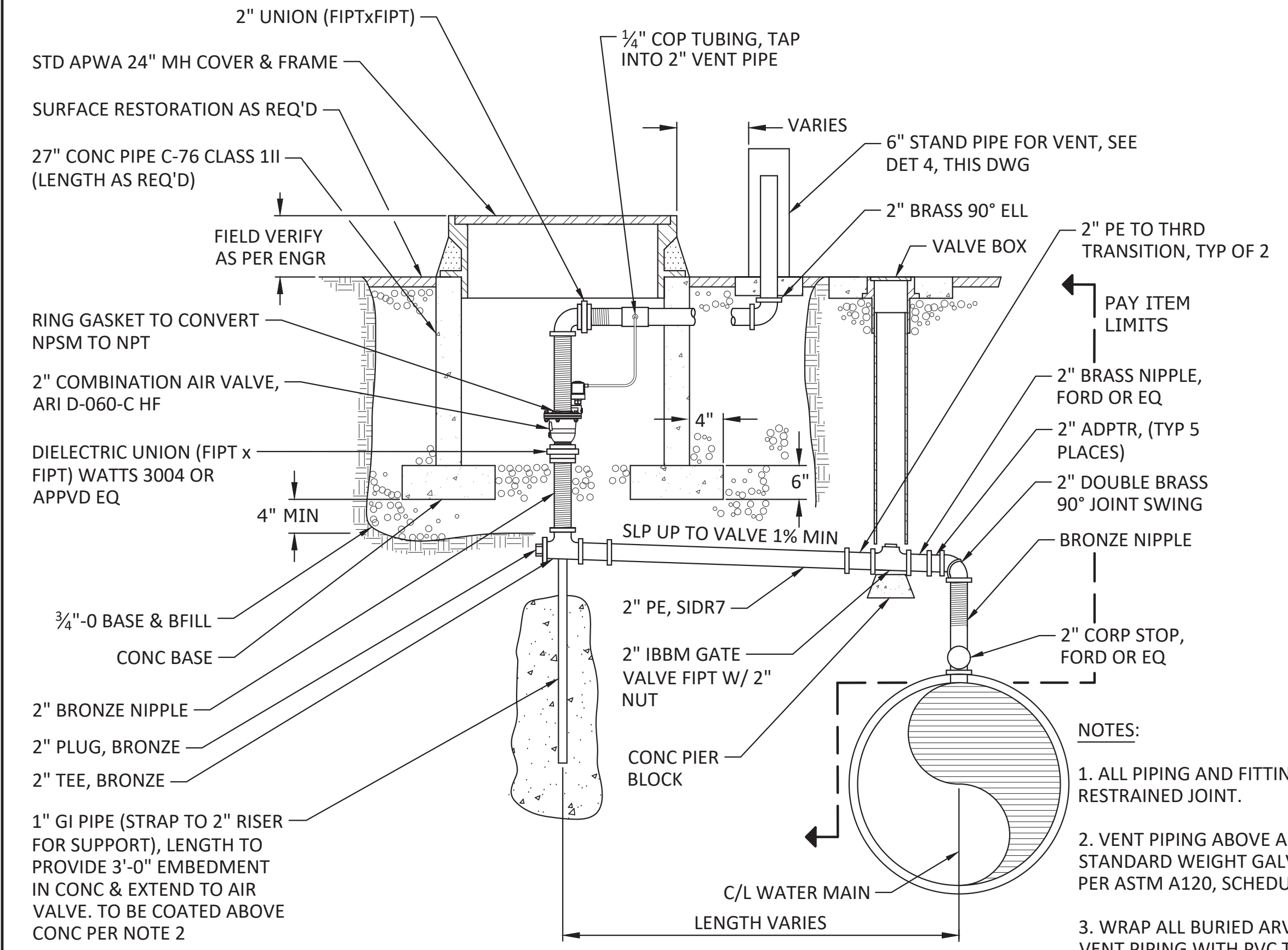
CITY OF ROSEBURG	DESIGNED <u>B. FALK</u>	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING	DRAWN <u>K. HARJALA</u>	
CONNECTION PIPING DETAILS - 1	CHECKED <u>J. LUCE</u>	DRAWING
	DATE <u>04/30/2021</u>	<b>C-7</b>



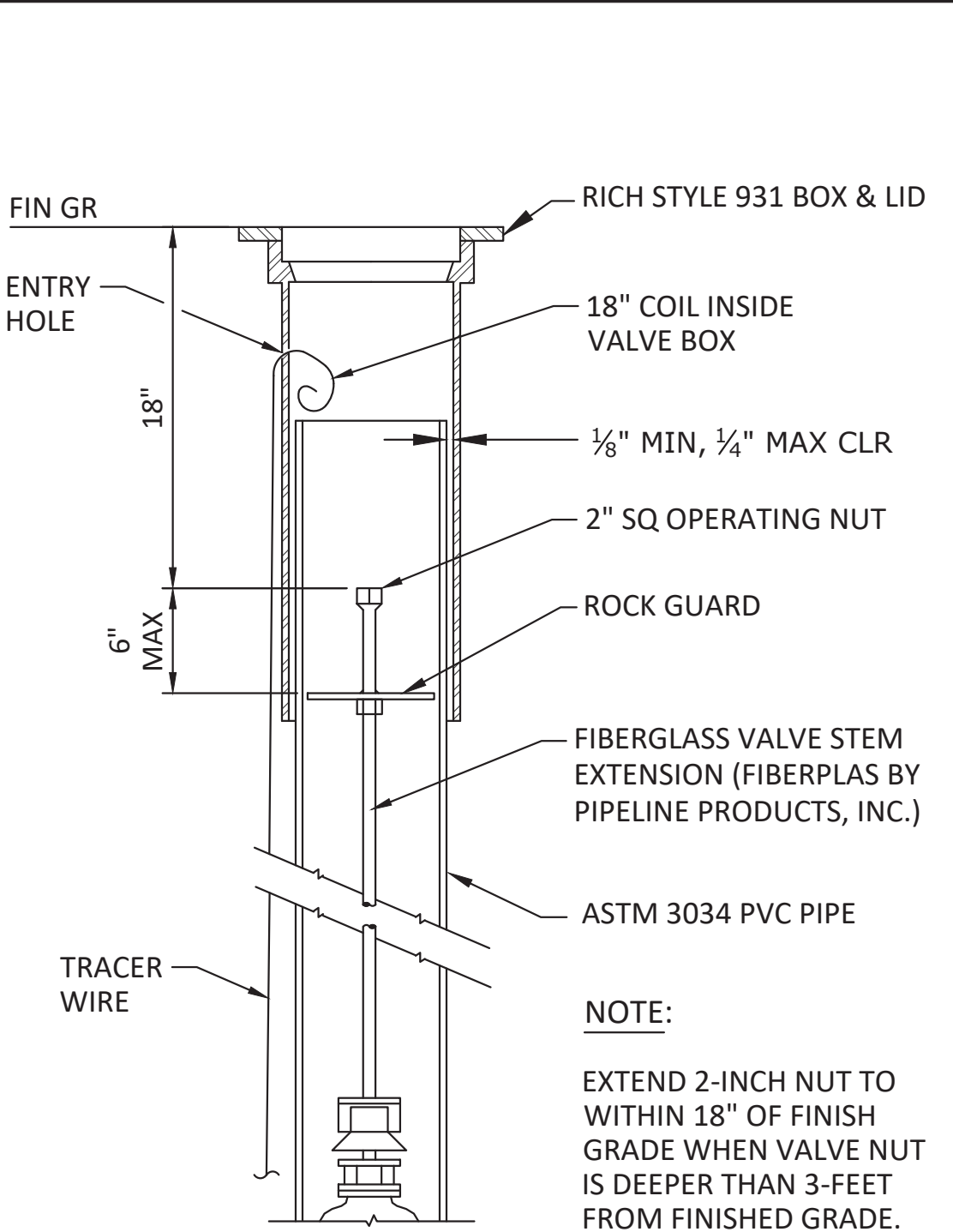


- NOTES:
- 1. VALVE BOX NOT TO REST ON OPERATING ASSEMBLY.
  - 2. OPERATING NUT EXTENSION REQUIRED WHEN VALVE NUT IS DEEPER THAN 3- FEET FROM FINISHED GRADE.
  - 3. CENTER VALVE BOX ON AXIS OF OPERATING NUT.
  - 4. PROVIDE 24-INCH SQUARE BY 6-INCH THICK CONCRETE PAD AROUND VALVE BOX OUTSIDE OF PAVED AREAS AS SHOWN IN CONCRETE PAD DETAIL.
  - 5. ORIENT GEAR OPERATOR TO CENTERLINE SIDE IN ROADWAYS.
  - 6. USE CLASS B TRENCH BACKFILL A MINIMUM OF 2- FEET EACH SIDE OF VALVE
  - 7. WRAP VALVE AND PIPING WITH POLYETHYLENE TUBING.

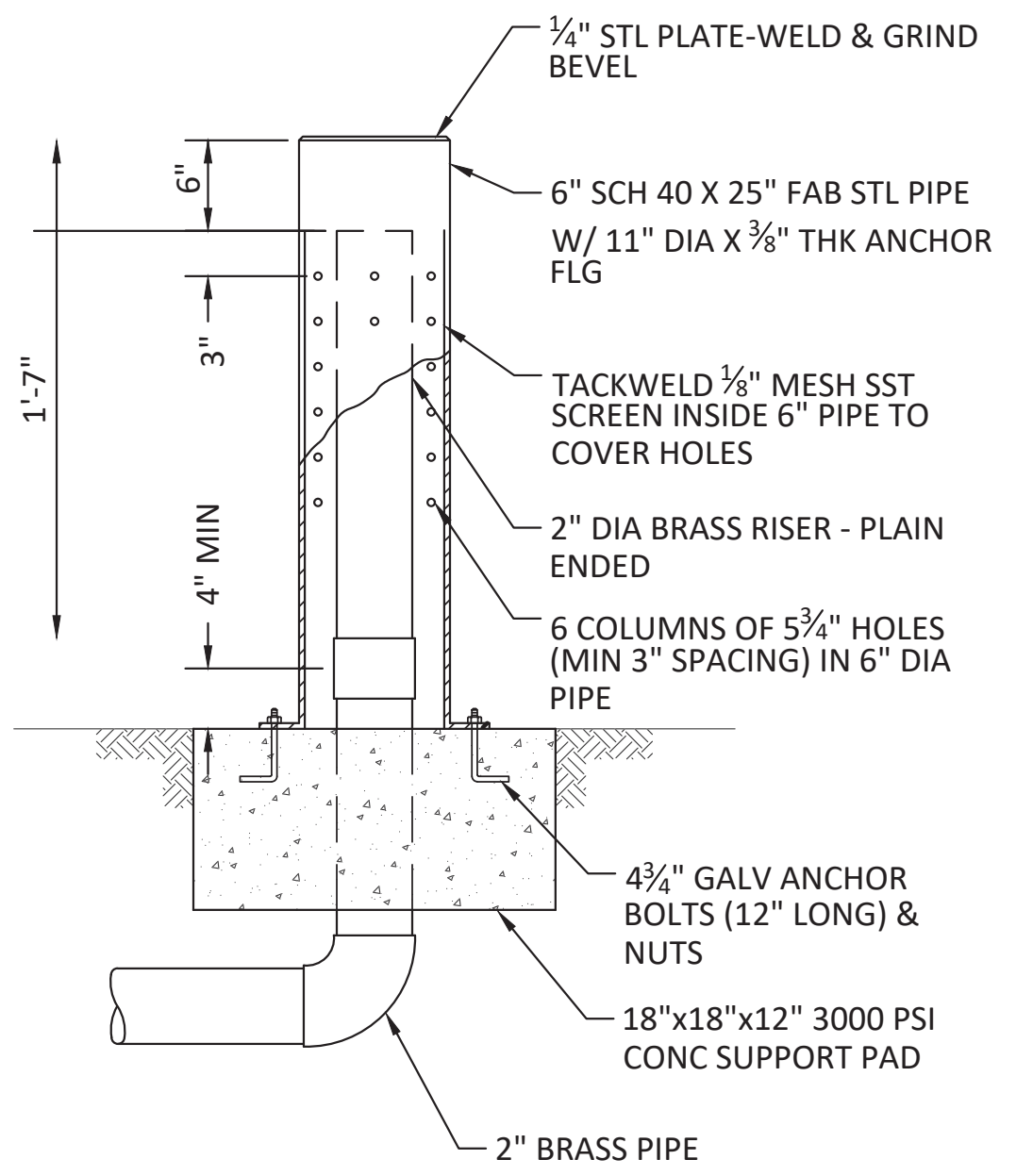
VALVE BOX DETAIL  
SCALE: NTS



2" AIR RELEASE VALVE  
SCALE: NTS



OPERATING NUT EXTENSION  
SCALE: NTS



- NOTE:
- 1. COMPLETE STANDPIPE ASSEMBLY TO BE HOT DIPPED GALVANIZED.

6" STAND PIPE FOR VENT  
SCALE: NTS

TYPICAL 1" METER INSTALLATION ASSEMBLY

PLAN  
N.T.S.

SECTION  
N.T.S.

ITEM	SIZE	DESCRIPTION	TYPE	QTY
1	AS REQ'D	SERVICE SADDLE	ROMAC 1", CC THD	1
2	1"	CORP STOP	FORD, F1001 (CC x PACK JOINT)	1
3	1"	SERVICE PIPE, IPS	200 p.s.i. POLYETHYLENE SIDR7 (PE 3408)	AS REQ'D
4	1"	ANGLE STOP	FORD, KV63-444W (PACK JOINT)	1
5	1"	METER	EXISTING OR AS SUPPLIED BY CITY	1
6	1"	STRAIGHT CHECK VALVE	FORD, H38-444 (METER NUT x MIPT)	1
7	1"	VALVE	BRONZE, HAND WHEEL, FIPT	1
8	—	CUSTOMER SERVICE	PER STATE PLUMBING CODE	—
9	—	METER BOX	DPW METER BOX 486WB AND LID 486C	1
10	NO. 12	TONE WIRE	ELECTRICAL THHN STRANDED COPPER WIRE, COIL 12" IN METER BOX.	AS REQ'D

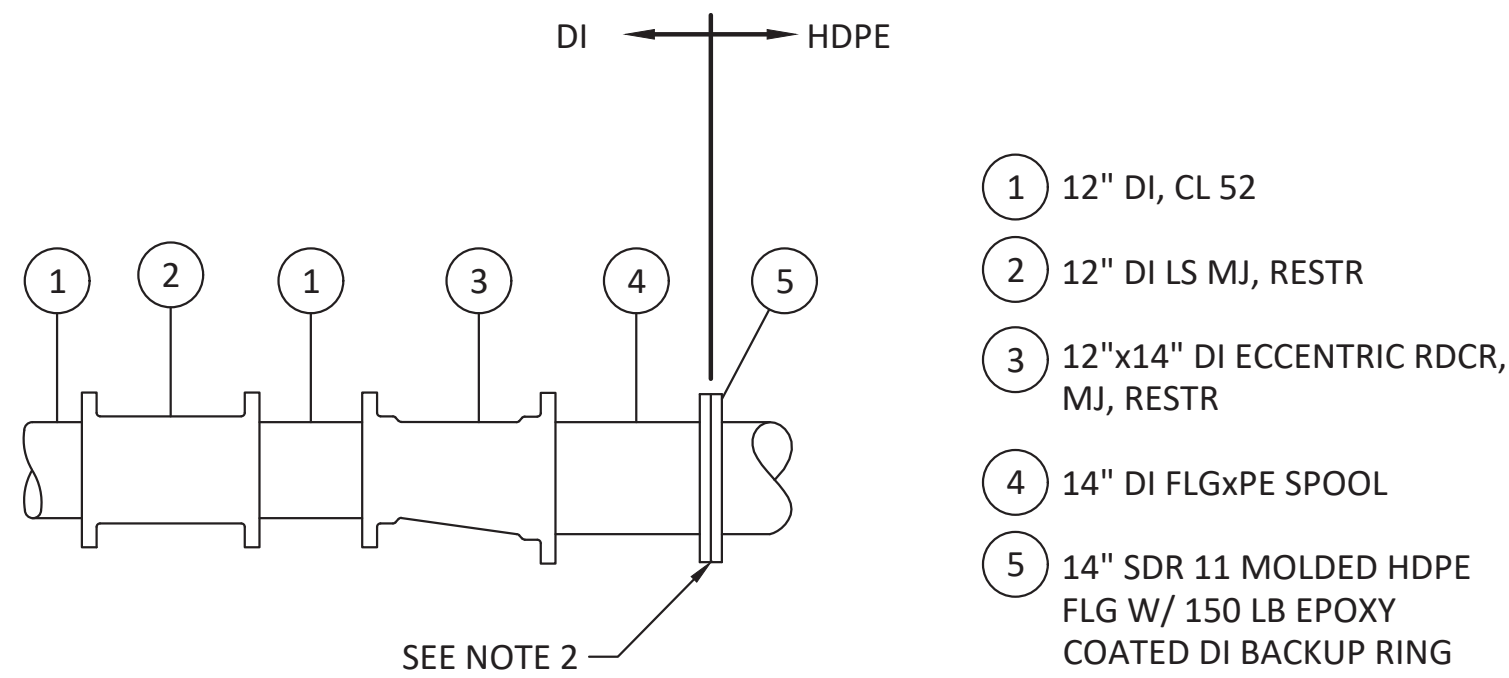
NOTES:

- △ OR APPROVED EQUAL. SEE GENERAL SPECIFICATIONS.
- △ TYPE AS APPROVED BY MANUFACTURER FOR WATER MAIN TYPE & SIZE.
- △ PLACE 12" OF 3/4"-0" OF CRUSHED ROCK IN THE BOTTOM OF THE METER BOX HOLE.
- △ TOP OF METER SHALL BE 4" TO 6" BELOW BOTTOM OF LID.

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 2/9/1992 REV: 4/6/2001	STANDARD DWG. NO. 110
------------------	------------------	---------------------------------	-----------------------

Path: G:\PDX\_Projects\20\2937 - Roseburg - Washington Ave HDD\CAD\Sheets\20-2937-OR-DETS.dwg Plot date: Apr 27, 2021 12:24pm, CAD User: kent.harjala



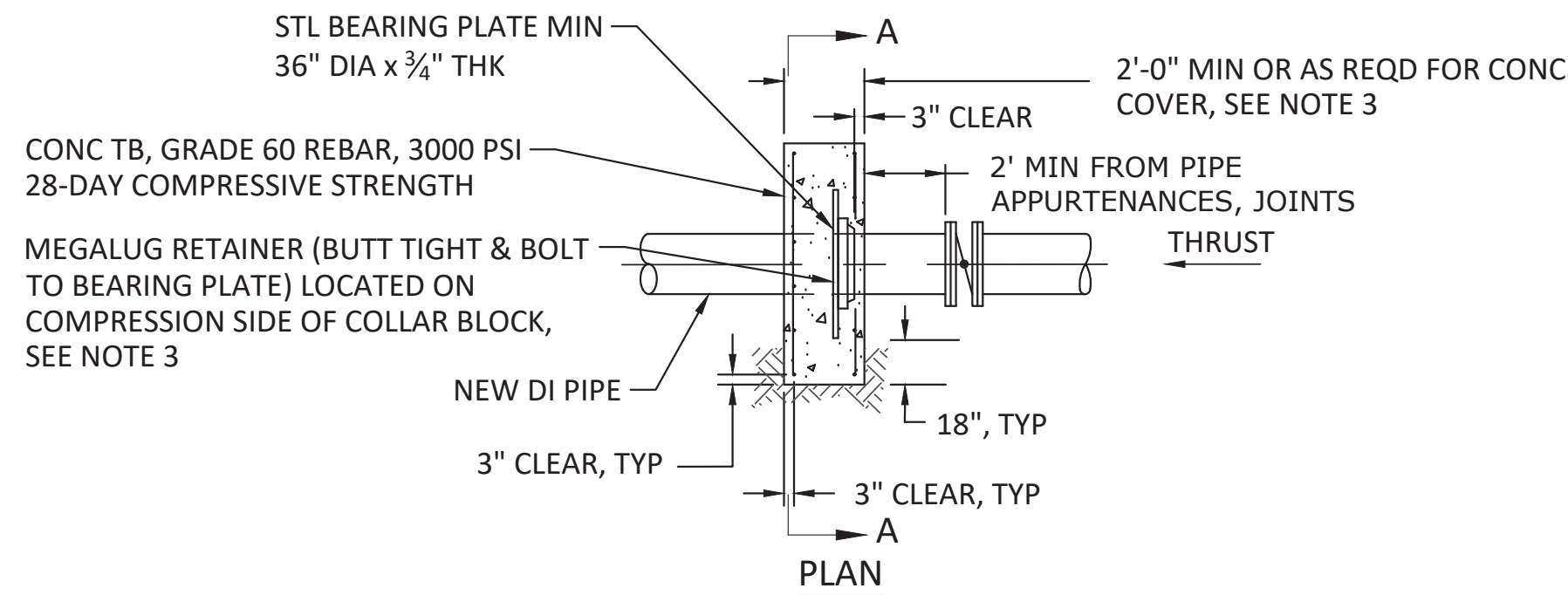
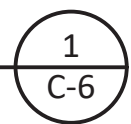


NOTES:

1. ALL BURIED DI PIPE FITTINGS AND APPURTENANCES TO BE POLY BAGGED PER AWWA C105 DI BACKUP RINGS AND FASTENERS TO BE WRAPPED WITH WAX TAPE. INSTALL WAX TAPE PRIOR TO POLYBAGGING.
2. SEE SPECIFICATIONS FOR HDPE FLANGE JOINT CONNECTION PROCEDURE.

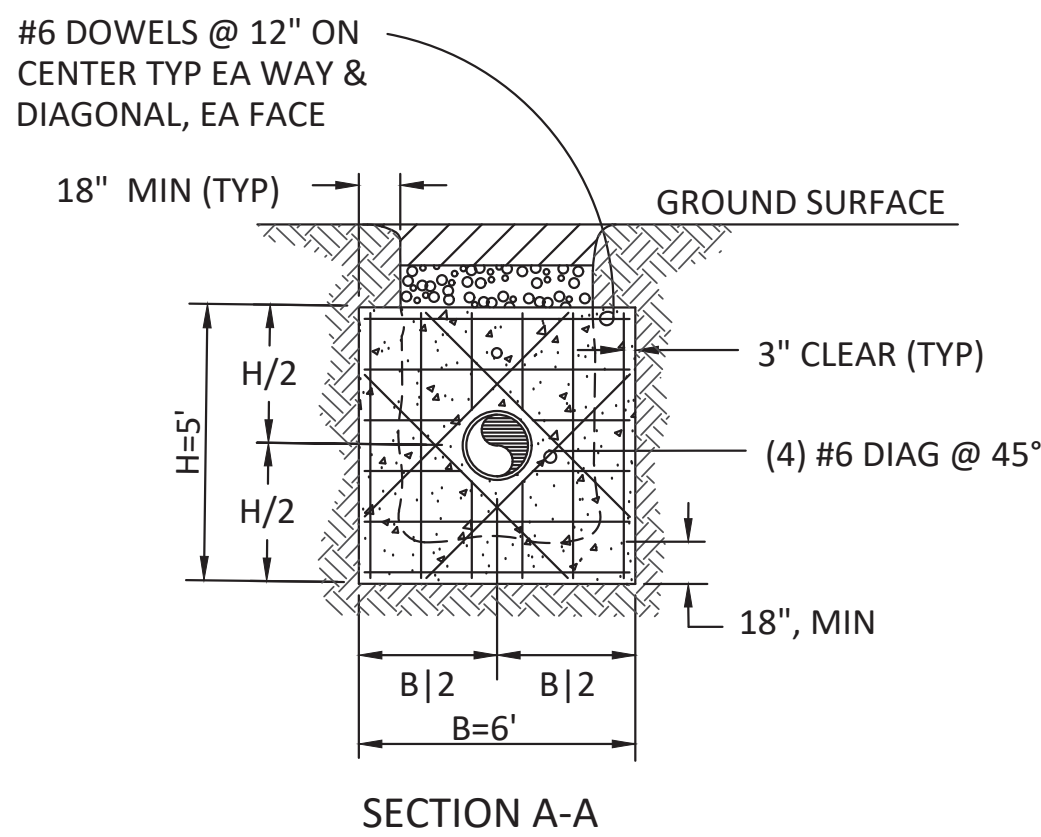
DI TO HDPE TRANSITION

SCALE: NTS



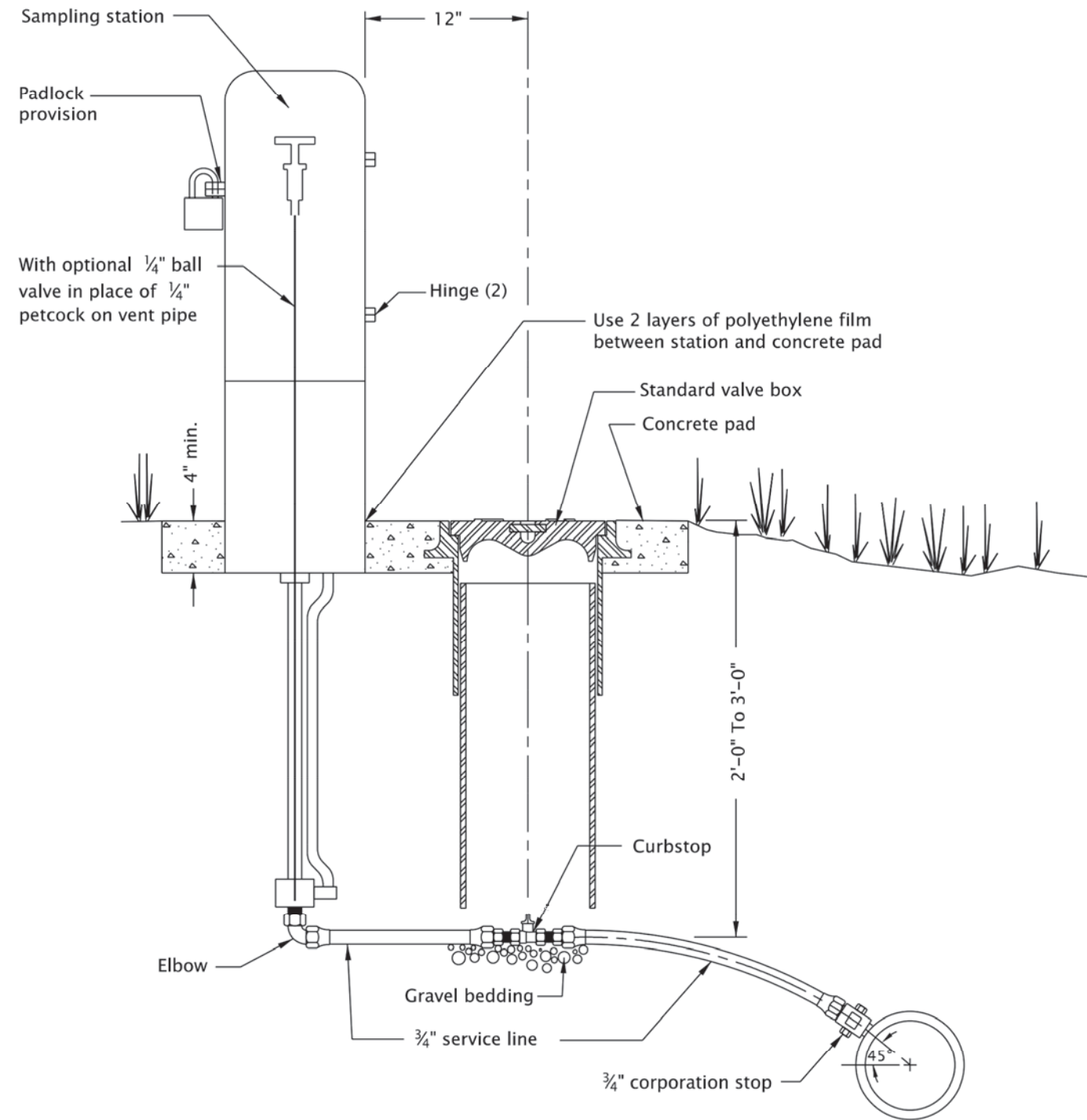
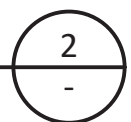
NOTES:

1. ALL CONCRETE SHALL BE COMMERCIAL GRADE CONCRETE, 3,000 PSI COMPRESSIVE STRENGTH OR GREATER.
2. CONCRETE BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH ON SIDES AND BOTTOM OR 95% COMPACTED GRANULAR BACKFILL.
3. PROVIDE POLYETHYLENE (PE) ENCASEMENT FOR ALL PIPING AND RESTRAINT DEVICES IN CONTACT WITH CONCRETE AND WITHIN 1 FOOT OF ANCHOR WALL. PROVIDE MINIMUM OF 3" CONCRETE COVER OVER RESTRAINT DEVICES WITHIN ANCHOR WALL.



CONCRETE ANCHOR WALL

SCALE: NTS



WATER SAMPLING STATION DETAIL

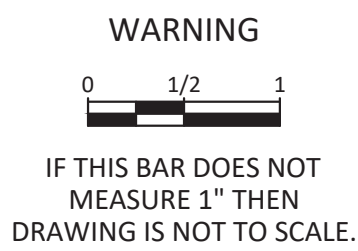
SCALE: NTS

Effective Date: June 1, 2021 – November 30, 2021

RD282

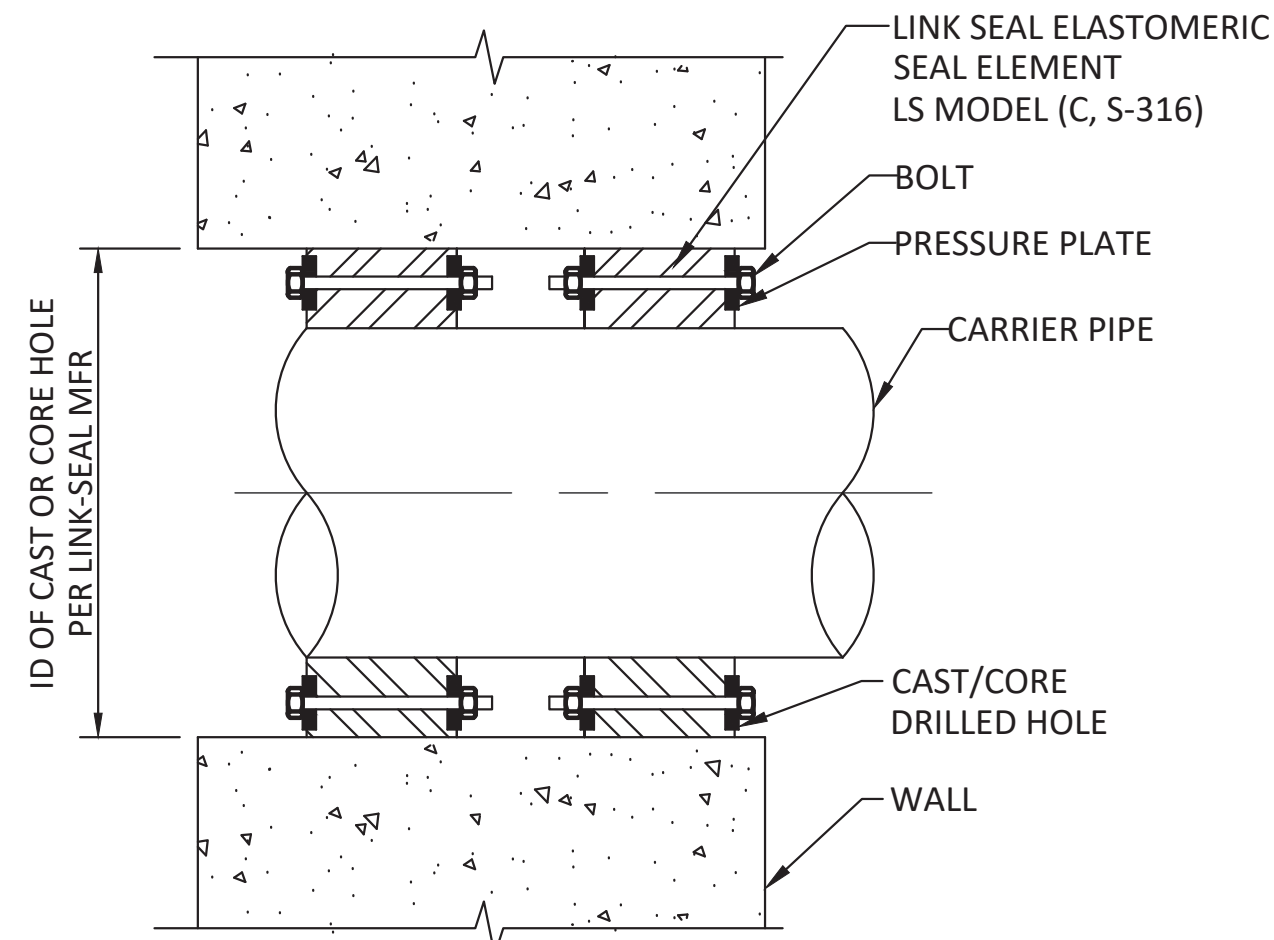
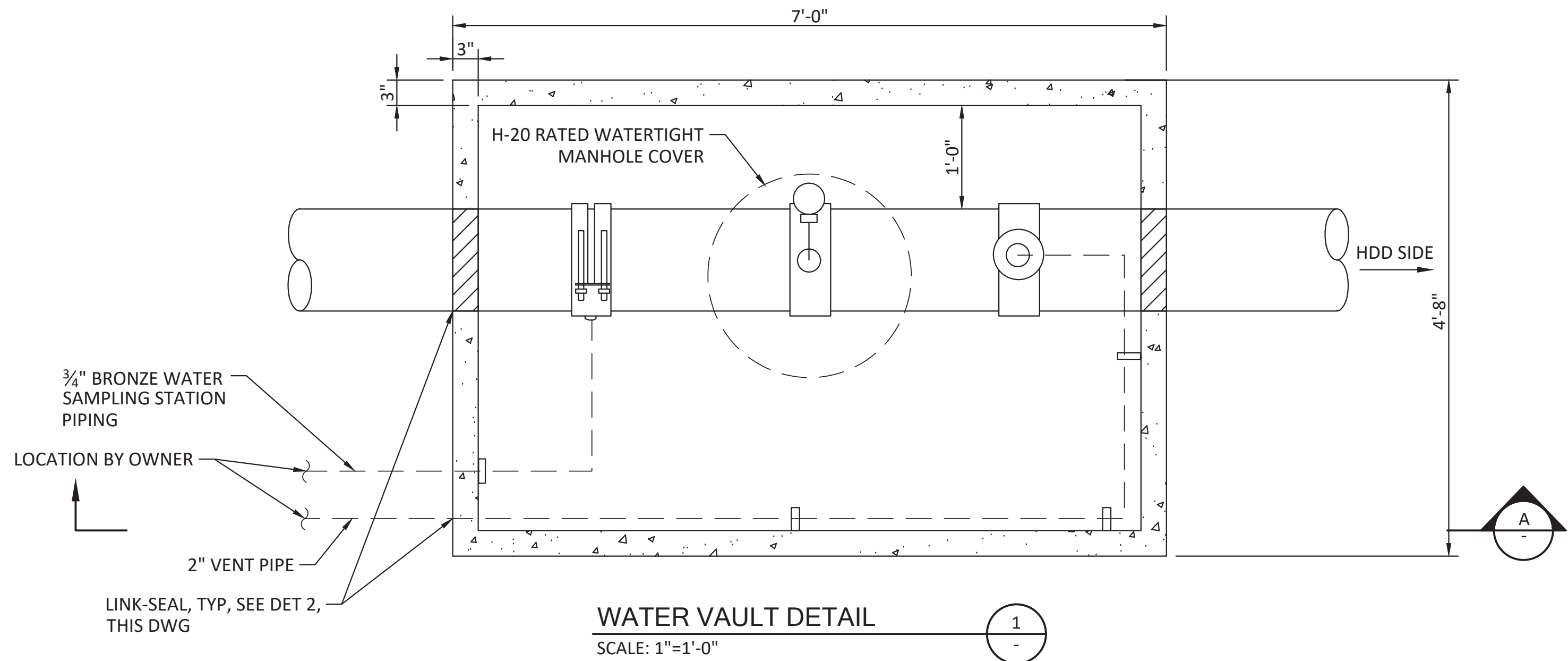
GENERAL NOTES FOR ALL DETAILS ON THIS SHEET: 1. Provide insulation and additional depth when specified for freeze protection. 2. See project plans for details not shown.	
CALC. BOOK NO. <u>N/A</u>	SDR DATE <u>25-JUL-2017</u>
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.	
OREGON STANDARD DRAWINGS	
WATER SAMPLING STATION	
2021	
DATE	REVISION DESCRIPTION

0	4/30/2021	JRL	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	



CITY OF ROSEBURG		DESIGNED <u>B. FALK</u>	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN <u>K. HARJALA</u>	
CONNECTION PIPING DETAILS - 3		CHECKED <u>J. LUCE</u>	DRAWING
		DATE <u>04/30/2021</u>	C-9





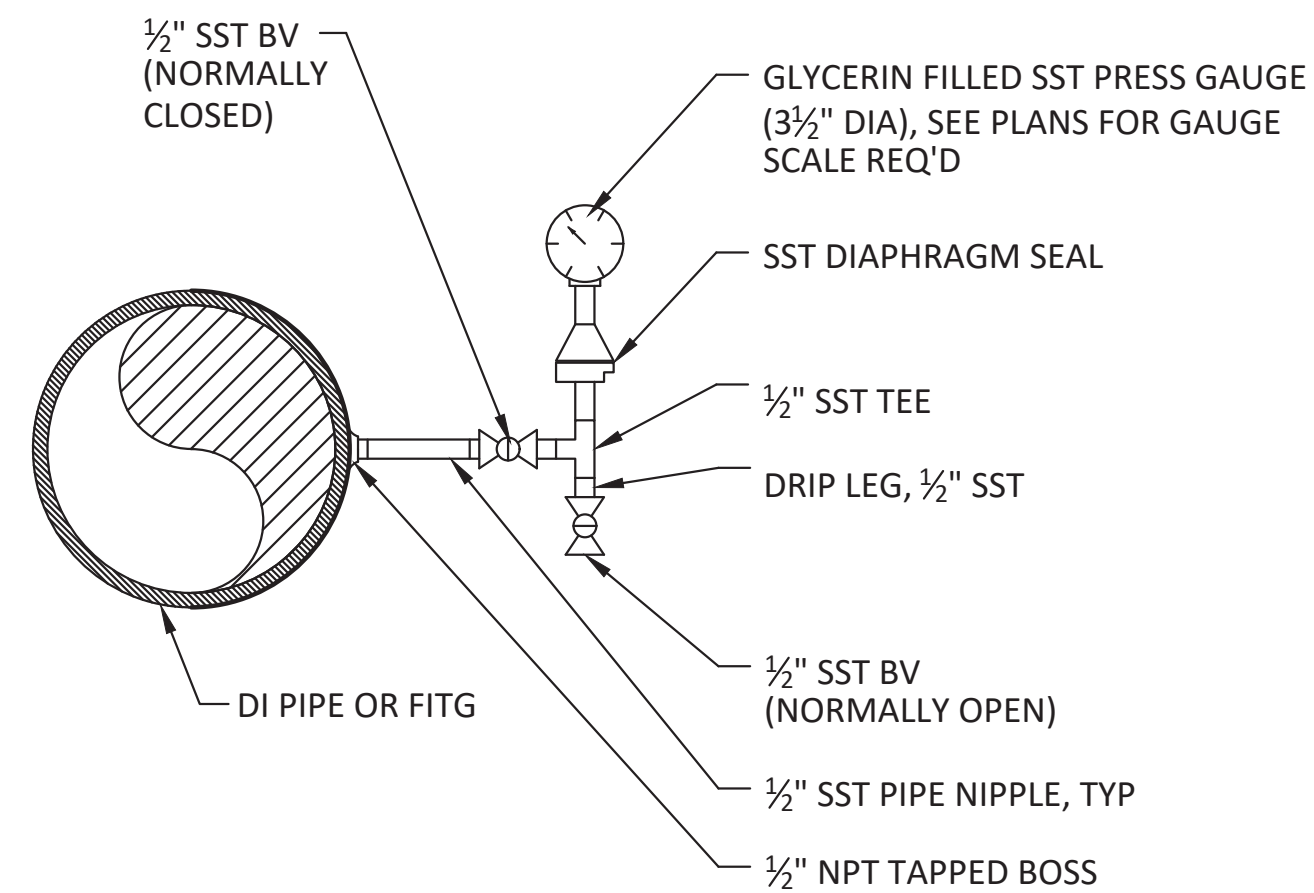
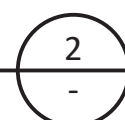
CAST/CORE DRILLED WALL OPENING

NOTE:

1. PROVIDE TWO LINK SEALS AT EACH PENETRATION.

LINK-SEAL DETAIL

SCALE: NTS

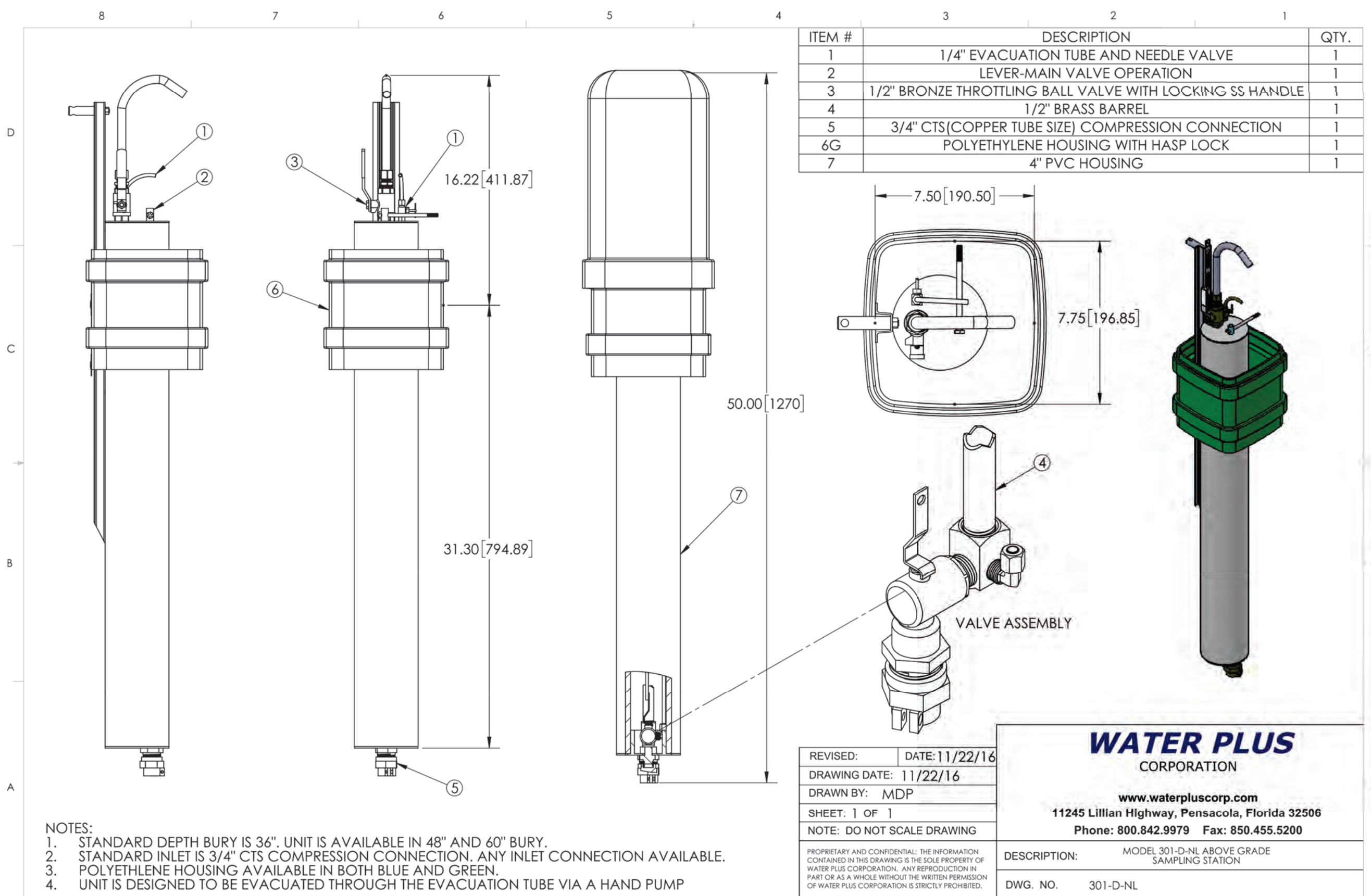
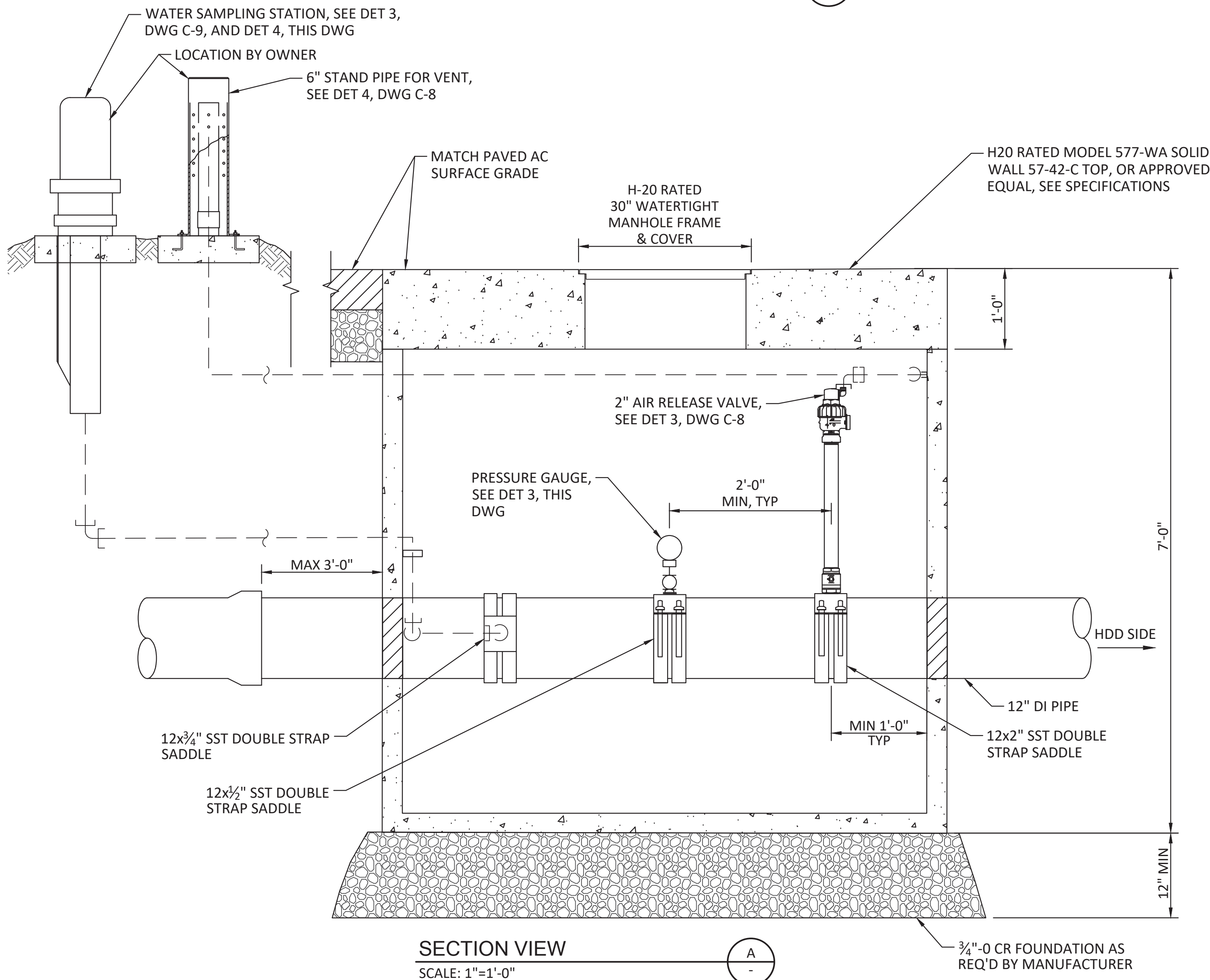
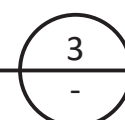


NOTES:

1. ALL PIPE AND FITTINGS SHALL BE STAINLESS STEEL WITH THREADED ENDS.
2. INSTALL PRESSURE GAUGE AND DIAPHRAGM SEAL PER MANUFACTURER'S REQUIREMENTS.

PRESSURE GAUGE DETAIL

SCALE: NTS



SAMPLING STATION

SCALE: NTS



REV	DATE	BY	DESCRIPTION
0	4/30/2021	JRL	ISSUED FOR BID



WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF ROSEBURG	DESIGNED	B. FALK	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING	DRAWN	K. HARJALA	
CONNECTION PIPING DETAILS - 4	CHECKED	J. LUCE	DRAWING
	DATE	04/30/2021	C-10





PHOTO 1 - WATER PIPE COUPLING

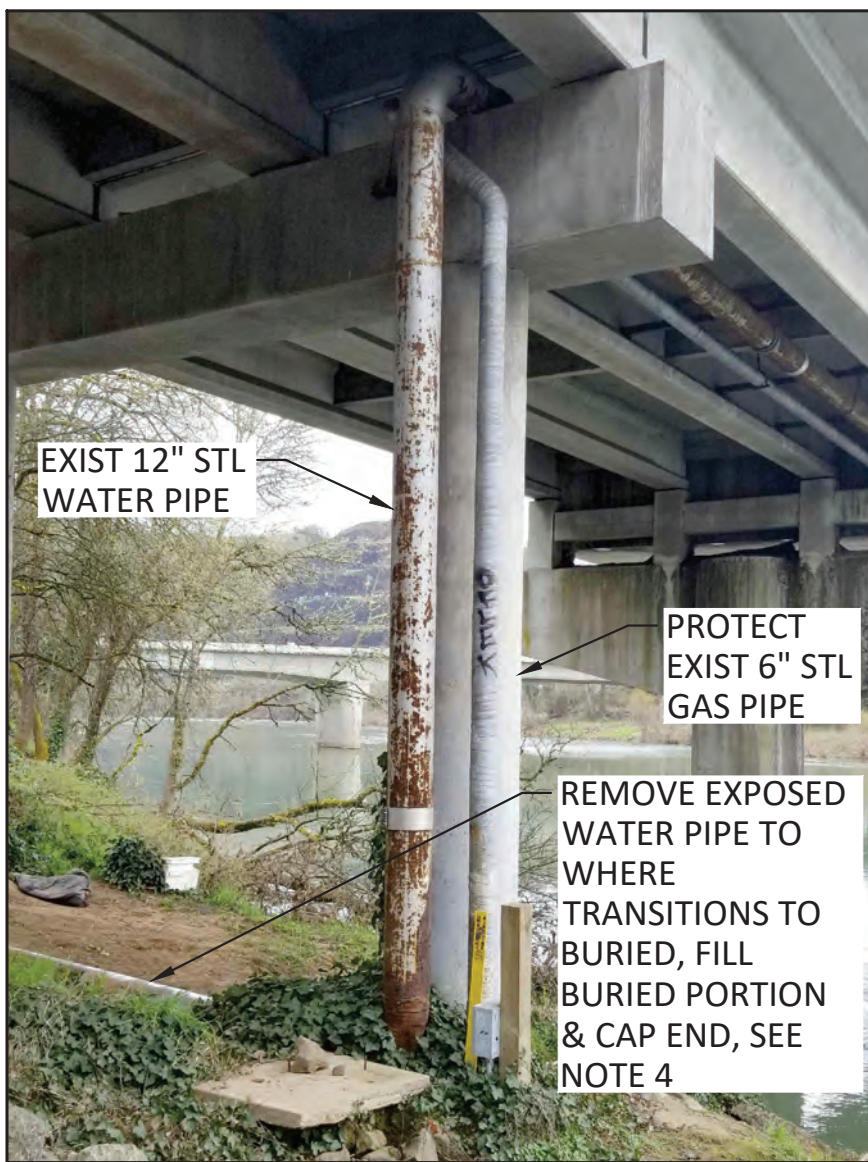
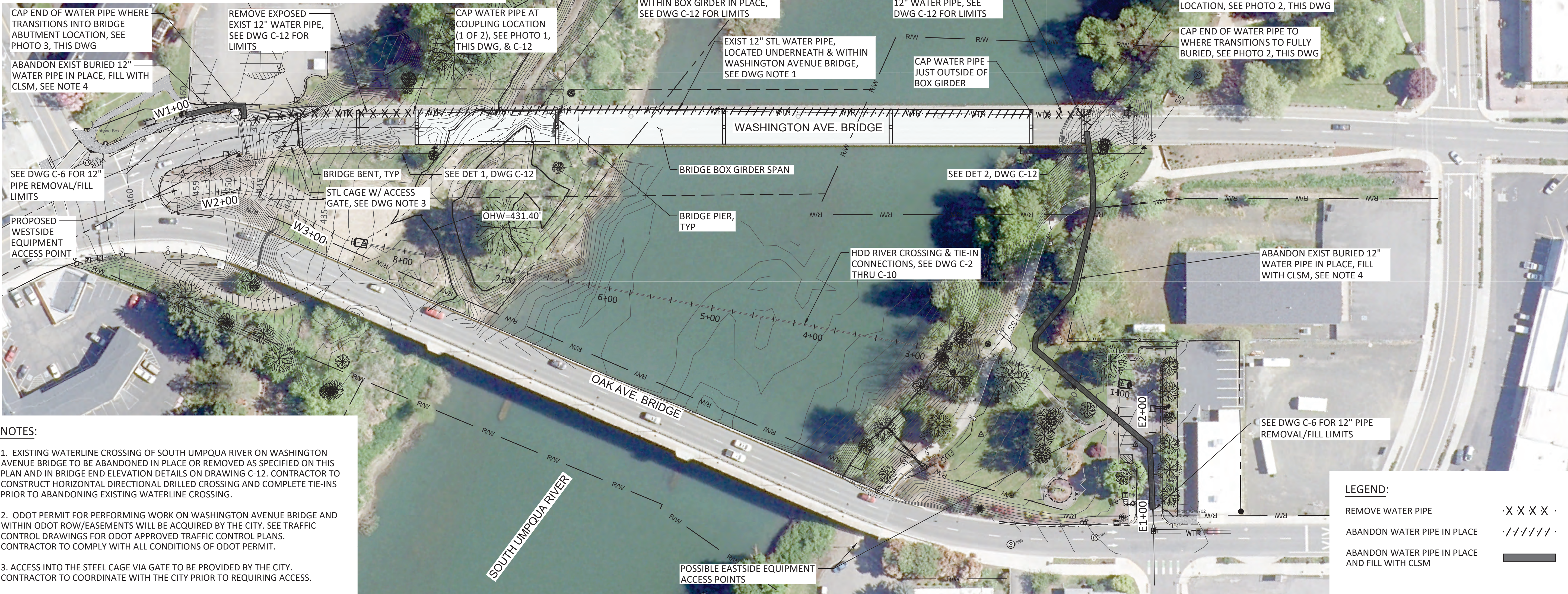


PHOTO 2 - WATER PIPE DROP DOWN

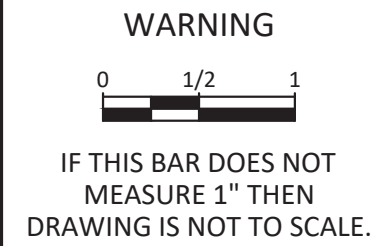


PHOTO 3 - WATER PIPE INTO BRIDGE ABUTMENT



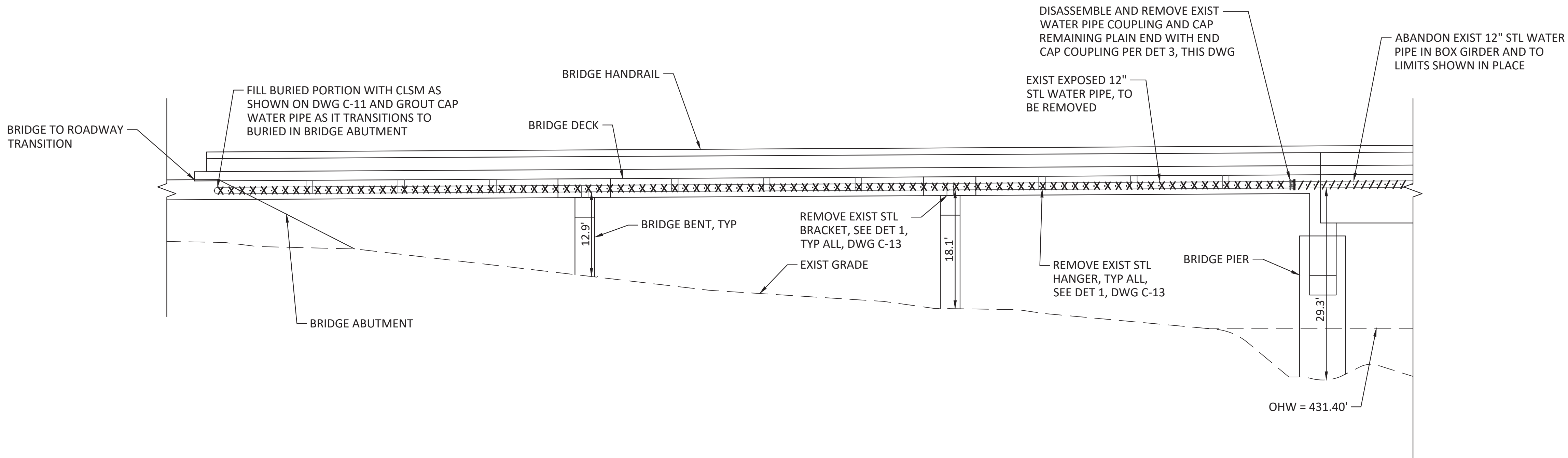
- NOTES:
- EXISTING WATERLINE CROSSING OF SOUTH UMPQUA RIVER ON WASHINGTON AVENUE BRIDGE TO BE ABANDONED IN PLACE OR REMOVED AS SPECIFIED ON THIS PLAN AND IN BRIDGE END ELEVATION DETAILS ON DRAWING C-12. CONTRACTOR TO CONSTRUCT HORIZONTAL DIRECTIONAL DRILLED CROSSING AND COMPLETE TIE-INS PRIOR TO ABANDONING EXISTING WATERLINE CROSSING.
  - ODOT PERMIT FOR PERFORMING WORK ON WASHINGTON AVENUE BRIDGE AND WITHIN ODOT ROW/EASEMENTS WILL BE ACQUIRED BY THE CITY. SEE TRAFFIC CONTROL DRAWINGS FOR ODOT APPROVED TRAFFIC CONTROL PLANS. CONTRACTOR TO COMPLY WITH ALL CONDITIONS OF ODOT PERMIT.
  - ACCESS INTO THE STEEL CAGE VIA GATE TO BE PROVIDED BY THE CITY. CONTRACTOR TO COORDINATE WITH THE CITY PRIOR TO REQUIRING ACCESS.
  - FILL EXISTING BURIED 12" PIPING WITH CLSM TO LIMITS SHOWN PRIOR TO PLUGGING ENDS AND ABANDONING IN PLACE. SEE SPECIFICATION SECTION 33 11 50 - EXISTING PIPE ABANDONMENT.

0	4/30/2021	JRL	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	



CITY OF ROSEBURG		DESIGNED	B. FALK	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN	K. HARJALA	
BRIDGE PIPE ABANDONMENT - OVERALL PLAN		CHECKED	J. LUCE	DRAWING
		DATE	04/30/2021	C-11

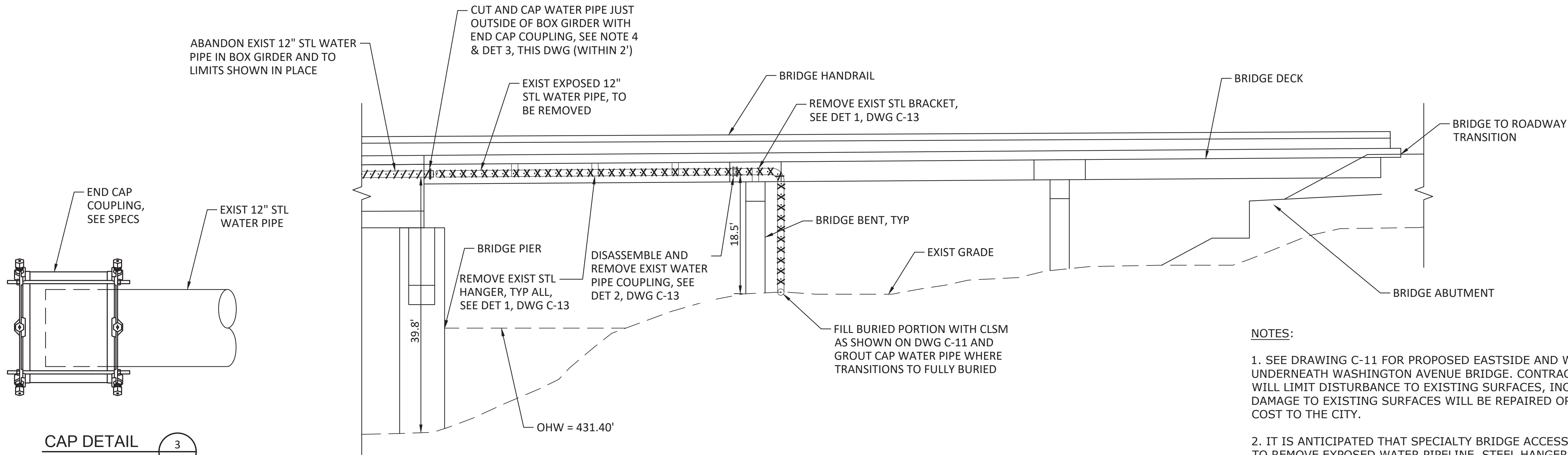




WEST BRIDGE END ELEVATION (VIEW NORTH)

SCALE: NTS

1  
-



CAP DETAIL

SCALE: NTS

3  
-

LEGEND:

REMOVE WATER PIPE      x x x x x x

ABANDON WATER PIPE IN PLACE      -/-/-/-/-/-/-/-

EAST BRIDGE END ELEVATION (VIEW NORTH)

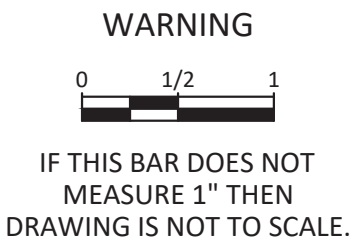
SCALE: NTS

2  
-

NOTES:

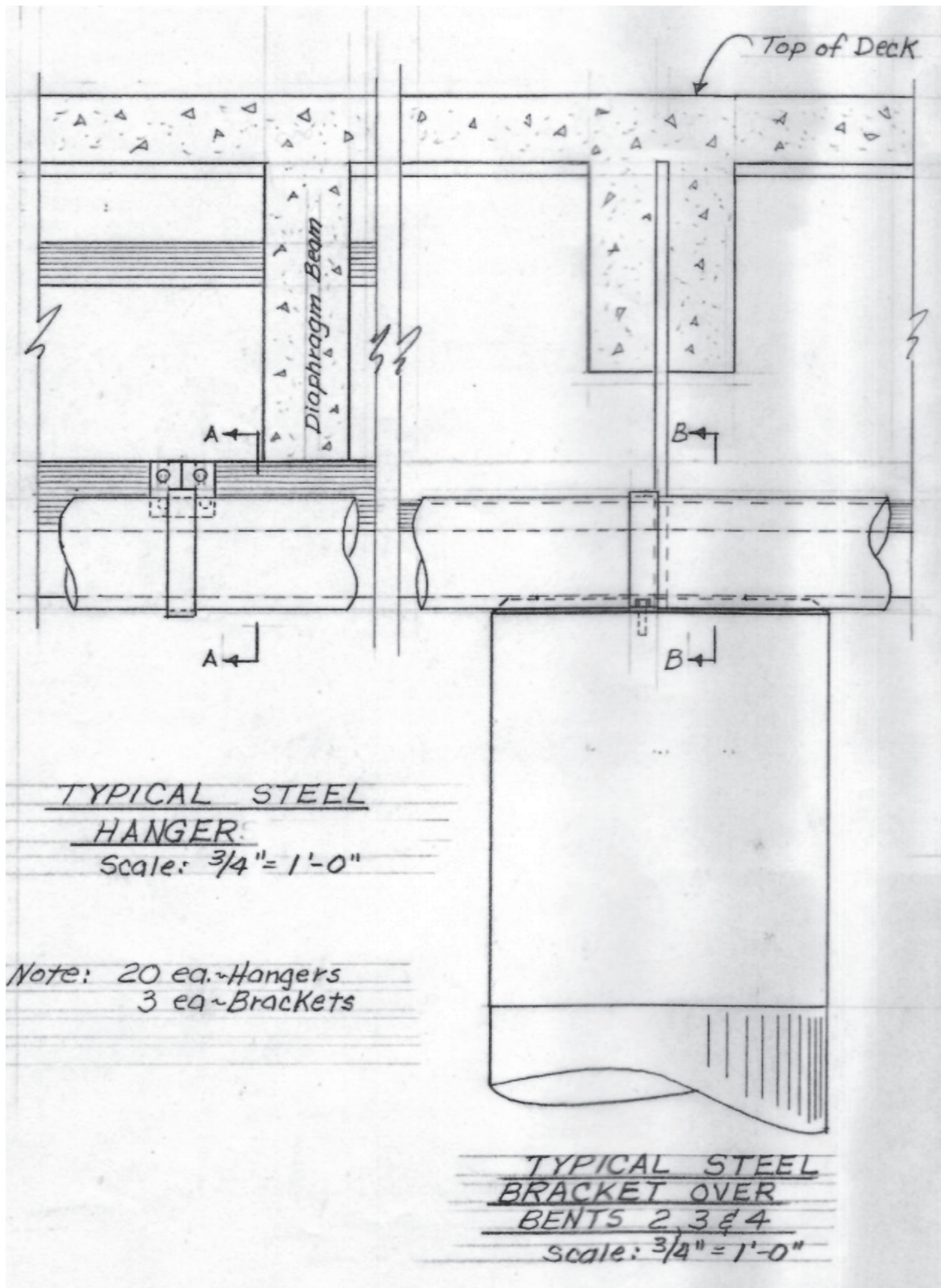
- SEE DRAWING C-11 FOR PROPOSED EASTSIDE AND WESTSIDE EQUIPMENT ACCESS LOCATIONS TO UNDERNEATH WASHINGTON AVENUE BRIDGE. CONTRACTOR TO SELECT EQUIPMENT TO PERFORM WORK THAT WILL LIMIT DISTURBANCE TO EXISTING SURFACES, INCLUDING CONCRETE SIDEWALK ACCESS PATHS. ALL DAMAGE TO EXISTING SURFACES WILL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
- IT IS ANTICIPATED THAT SPECIALTY BRIDGE ACCESS EQUIPMENT SET ON BRIDGE DECK WILL BE REQUIRED TO REMOVE EXPOSED WATER PIPELINE, STEEL HANGER AND BRACKET PIPE SUPPORTS, AND INSTALL COUPLING CAPS WHERE LOCATION UNDERNEATH BRIDGE IS INACCESSIBLE FROM GROUND SURFACE BELOW. CONTRACTOR SHALL SUBMIT A WORK PLAN DETAILING SPECIFIC EQUIPMENT AND METHODS PROPOSED TO REMOVE EXISTING EXPOSED PIPELINE AND SUPPORTS FOR REVIEW. CONTRACTOR'S WORK PLAN WILL REQUIRE APPROVAL FROM ODOT BEFORE WORK SHALL COMMENCE.
- CONTRACTOR TO COORDINATE LANE CLOSURES ON WASHINGTON AVENUE BRIDGE WITH ODOT ACCORDING TO TRAFFIC CONTROL PLANS ON TC DRAWINGS.
- CUT WATER PIPE TO HAVE FLUSH VERTICAL FACE PRIOR TO CAPPING.

0	4/30/2021	JRL	ISSUED FOR BID	
REV	DATE	BY		DESCRIPTION



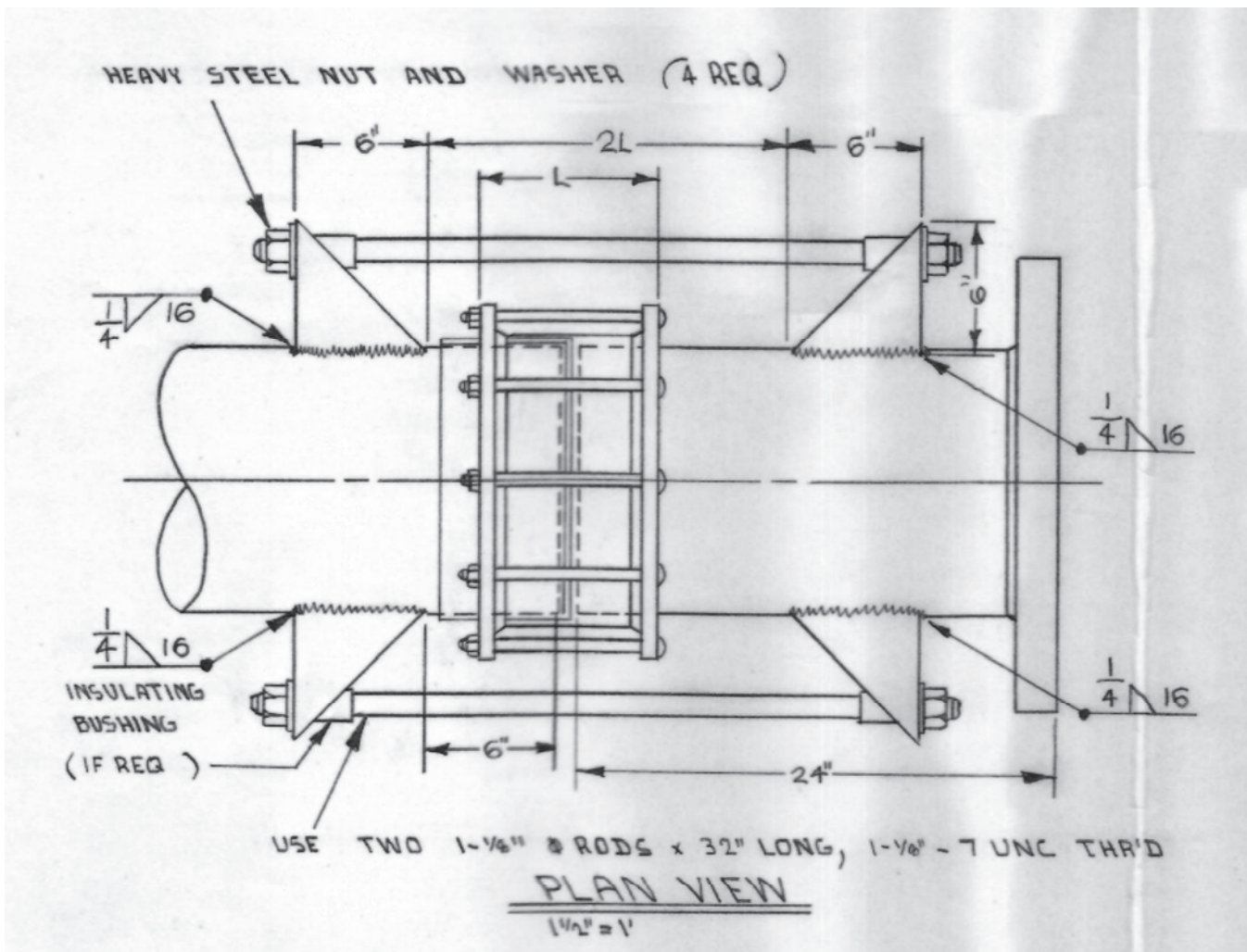
CITY OF ROSEBURG		DESIGNED	B. FALK	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN	K. HARJALA	
BRIDGE PIPE ABANDONMENT - BRIDGE END ELEVATIONS		CHECKED	J. LUCE	DRAWING
		DATE	04/30/2021	C-12





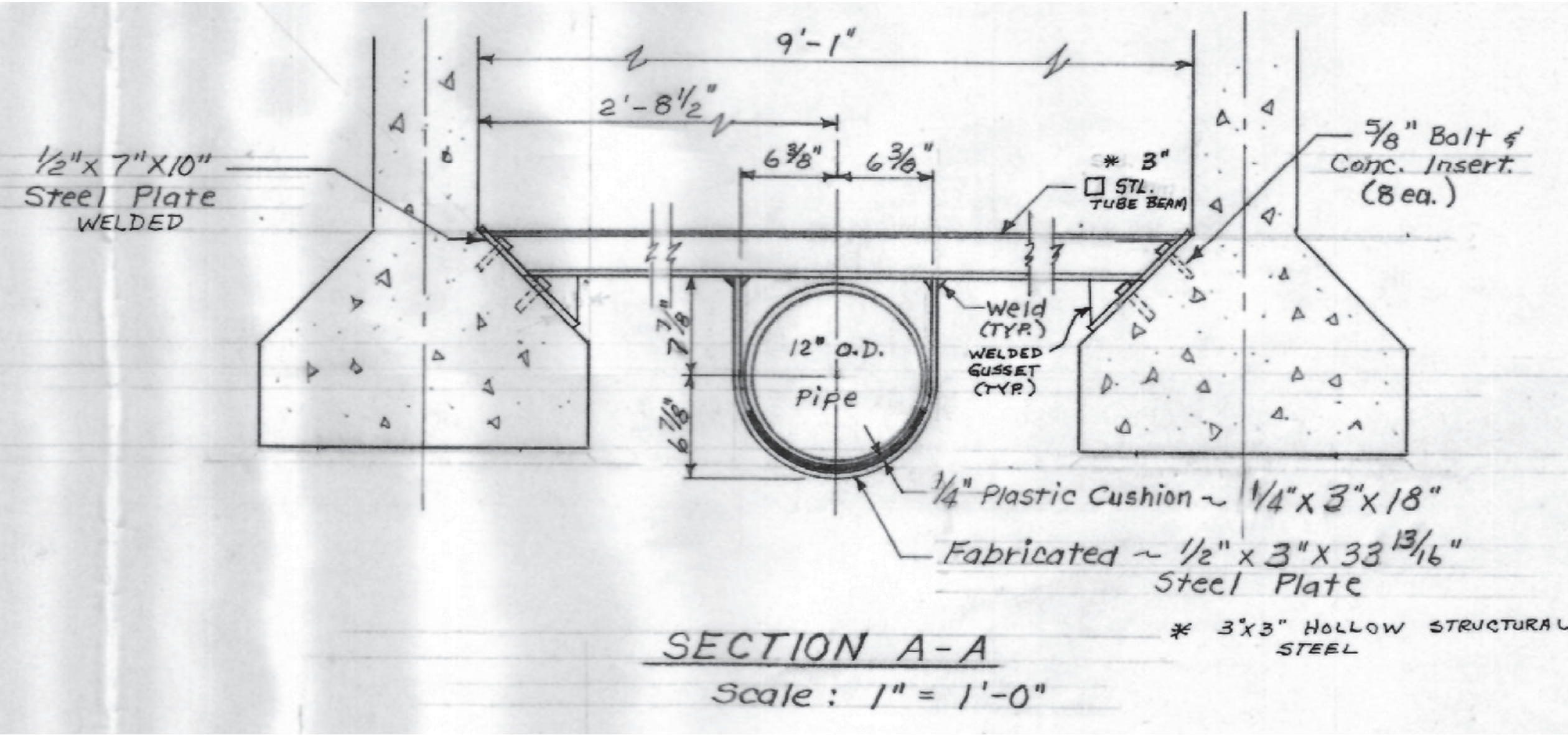
STEEL HANGER AND BRACKET

SCALE: NTS



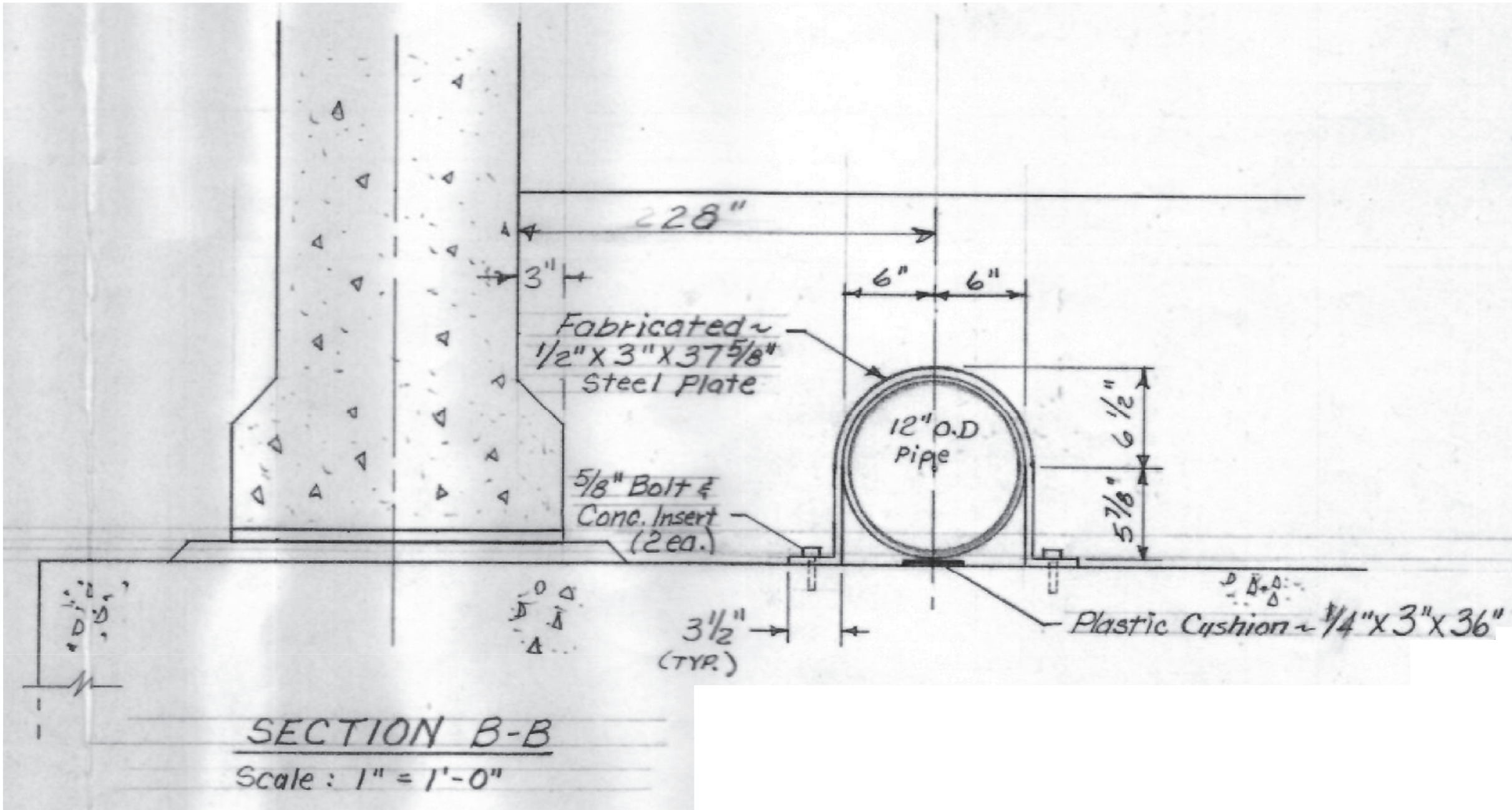
COUPLING

SCALE: NTS



SECTION VIEW

SCALE: NTS



SECTION VIEW

SCALE: NTS

REV	DATE	BY	DESCRIPTION
0	4/30/2021	JRL	ISSUED FOR BID



WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

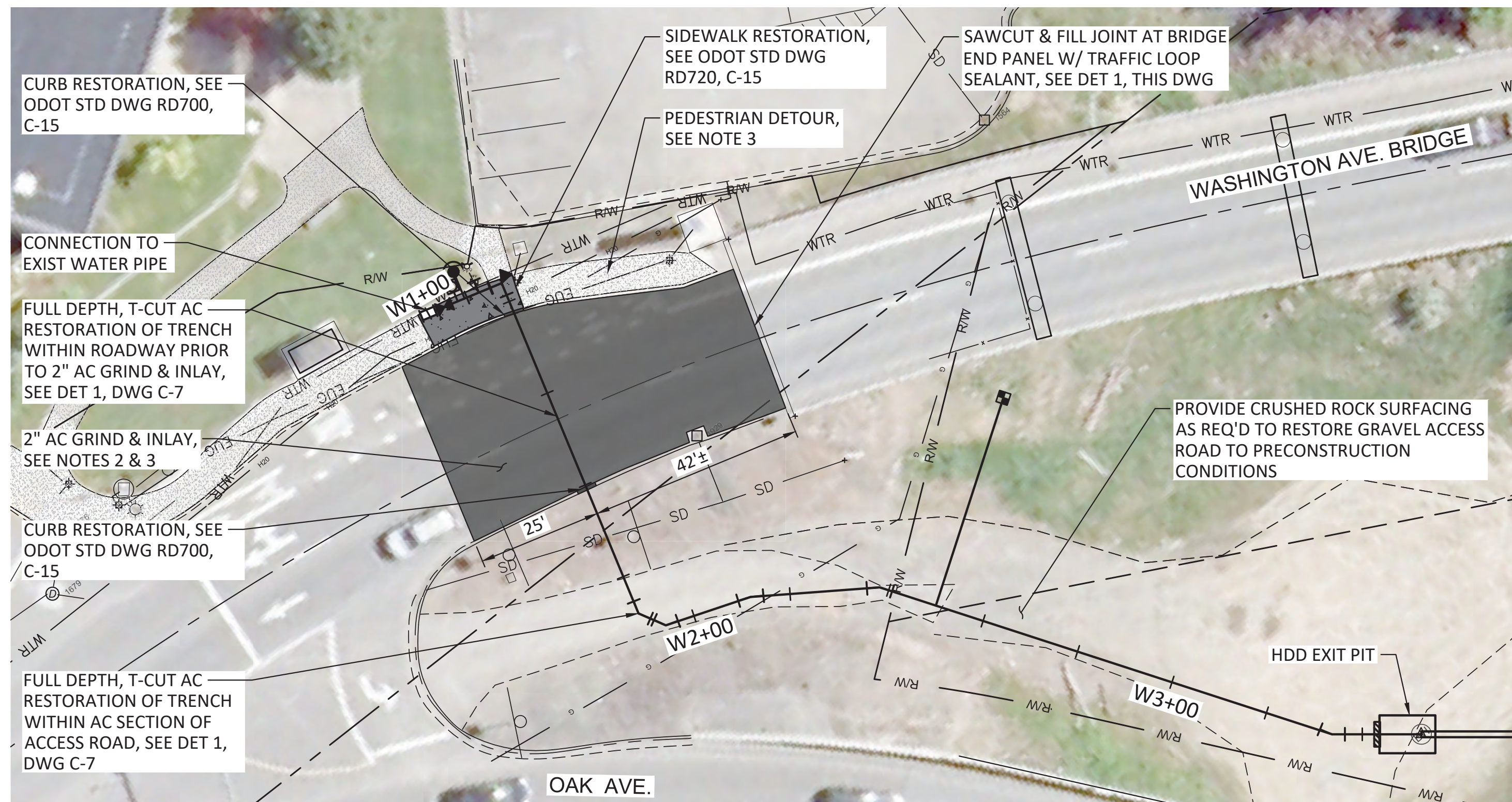


CITY OF ROSEBURG  
WASHINGTON AVE BORE CROSSING  
BRIDGE PIPE ABANDONMENT - EXISTING PIPING AND SUPPORTS DETAILS

DESIGNED B. FALK  
DRAWN K. HARJALA  
CHECKED J. LUCE  
DATE 04/30/2021

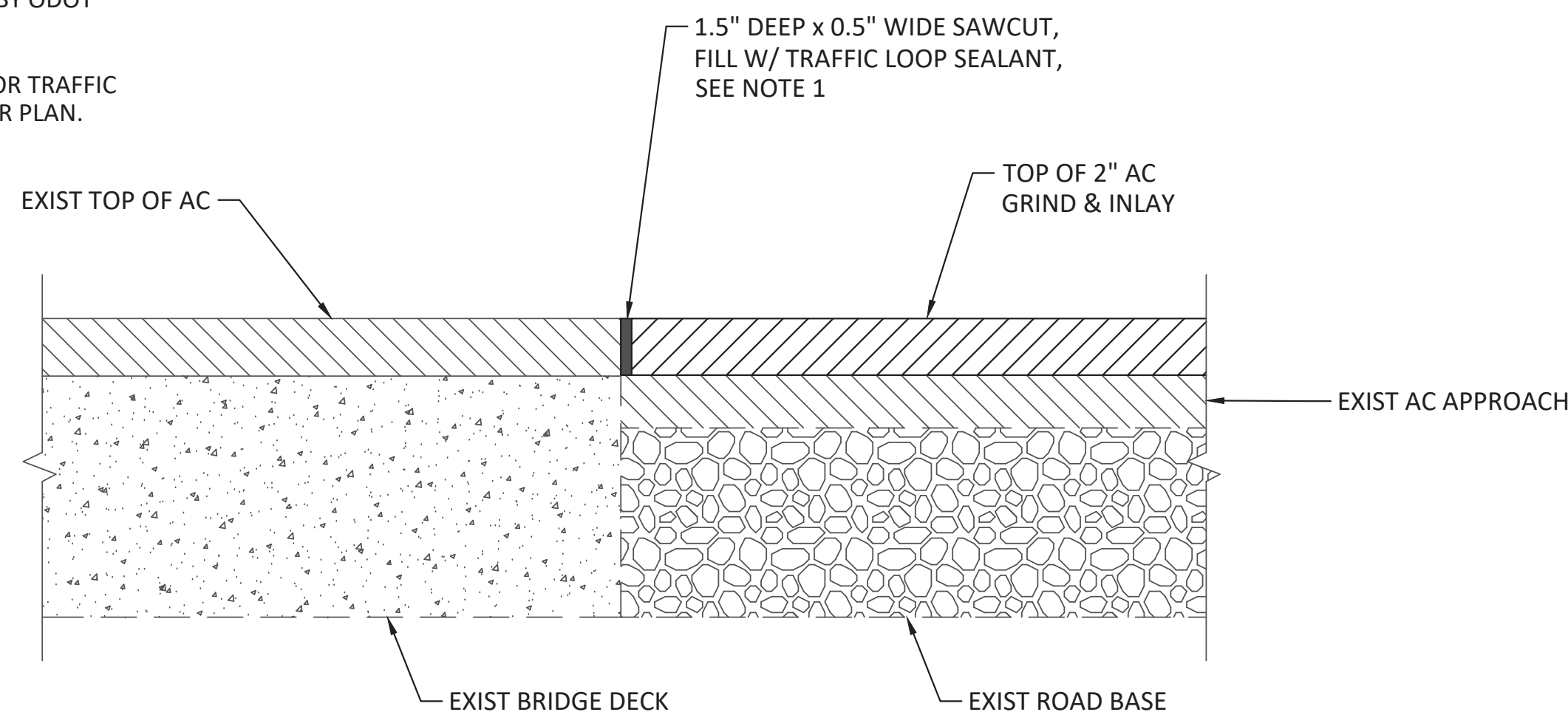
WORK DESIGNATION  
DRAWING  
C-13





NOTES:

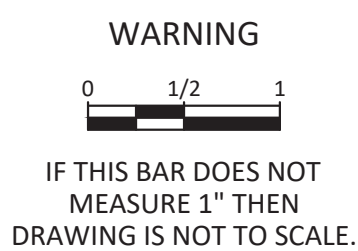
1. GRIND AND INLAY APPROXIMATELY 265 SQUARE YARDS OF ASPHALT CONCRETE.
2. REPLACE ALL STRIPING AND PAVEMENT MARKINGS AS REQUIRED. STRIPING AND PAVEMENT MARKINGS SHALL BE SELECTED FROM ODOT QPL. CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTAL FOR PROPOSED STRIPING AND PAVEMENT MARKINGS FOR REVIEW AND APPROVAL BY ODOT PRIOR TO INSTALLATION.
3. SEE DRAWINGS TC-1 THROUGH TC-3 FOR TRAFFIC CONTROL PLAN AND PEDESTRIAN DETOUR PLAN.



NOTES:

1. TRAFFIC LOOP SEALANT SHALL BE SELECTED FROM ODOT QPL. CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTAL FOR PROPOSED SEALANT FOR REVIEW AND APPROVAL BY ODOT PRIOR TO INSTALLATION.

0	4/30/2021	JRL	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	



CITY OF ROSEBURG	DESIGNED <u>B. FALK</u>	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING	DRAWN <u>K. HARJALA</u>	
SURFACE RESTORATION PLAN - EAST AND WEST ENDS	CHECKED <u>J. LUCE</u>	DRAWING <b>C-14</b>
	DATE <u>04/30/2021</u>	



0	4/30/2021	JRL	ISSUED FOR BID		
REV	DATE	BY	DESCRIPTION		

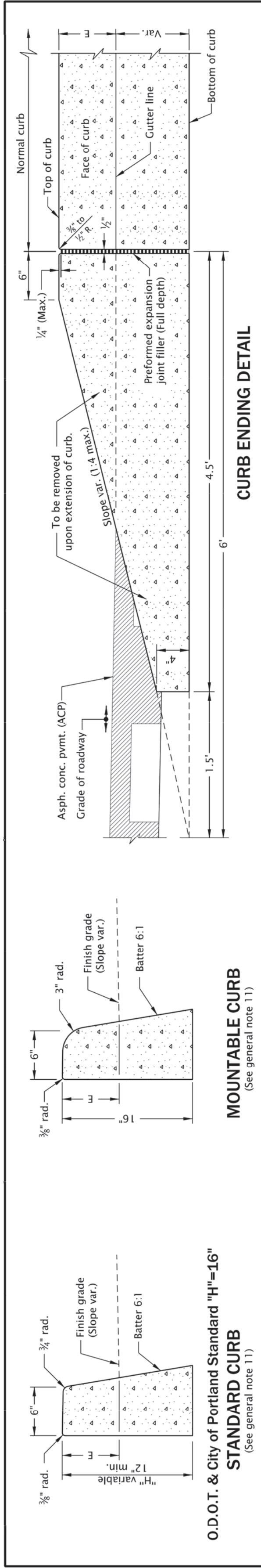


RENEWS 12-31-22

WARNING  
0 1/2 1  
IF THIS BAR DOES NOT  
MEASURE 1" THEN  
DRAWING IS NOT TO SCALE.

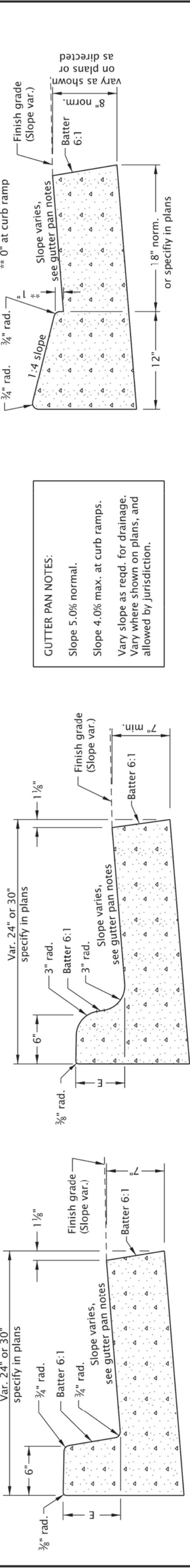


CITY OF ROSEBURG			DESIGNED	B. FALK	WORK DESIGNATION  DRAWING <b>C-15</b>
WASHINGTON AVE BORE CROSSING			DRAWN	K. HARJALA	
SURFACE RESTORATION DETAILS - 1			CHECKED	J. LUCE	
			DATE	04/30/2021	



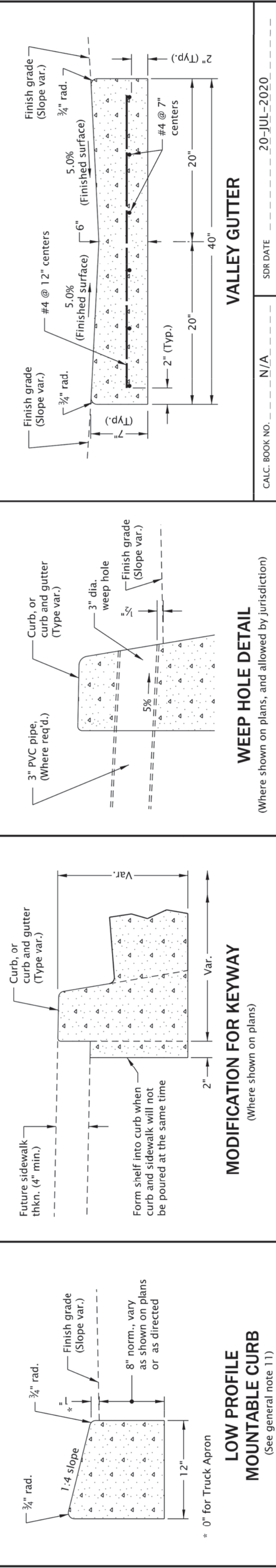
MOUNTABLE CURB  
(See general note 11)

O.D.O.T. & City of Portland Standard "H"=16"  
STANDARD CURB  
(See general note 11)



MOUNTABLE CURB AND GUTTER

CURB AND GUTTER



LOW PROFILE MOUNTABLE CURB AND GUTTER  
(Where shown on plans)

VALLEY GUTTER

WEEP HOLE DETAIL  
(Where shown on plans, and allowed by jurisdiction)

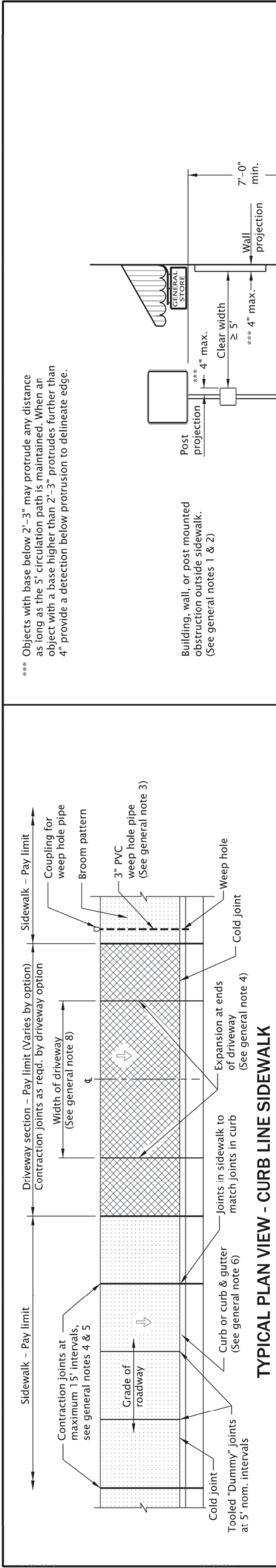
MODIFICATION FOR KEYWAY  
(Where shown on plans)

LOW PROFILE  
MOUNTABLE CURB  
(See general note 11)

<p>GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:</p> <ol style="list-style-type: none"> <li>Curb exposure "E" = 6" to 9", as measured vertically from flowline to highest point on curb. Vary as shown on plans or as directed. O.D.O.T. standard "E" = 7".</li> <li>Const. curb expansion joints at 200' maximum spacing, and at points of tangency, and at ends of each driveway.</li> <li>Const. curb contraction joints at 15' maximum spacing, and at ends of each inlet and curb ramp.</li> <li>Transitions shall be used to connect curbs of different exposures "E". ("E" is the total vertical dimension of those curb surfaces having a slope of 1:1 or steeper). Minimum desirable transition length shall be 20' for each 1" difference in "E".</li> </ol>	
RD700	RD700

Effective Date: June 1, 2021 – November 30, 2021

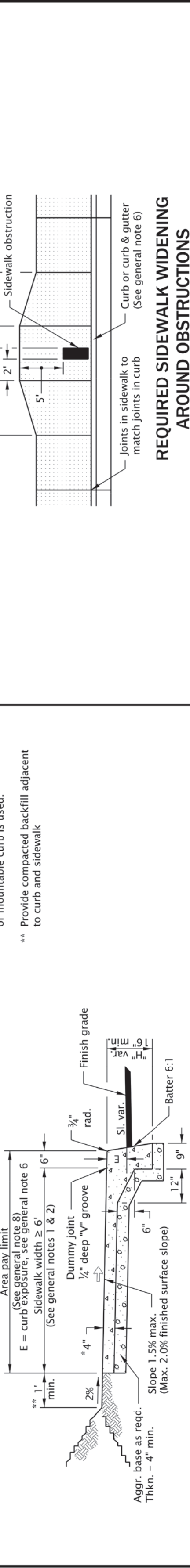
RD700



TYPICAL PLAN VIEW - CURB LINE SIDEWALK



TYPICAL CURB SIDEWALK CROSS SECTION



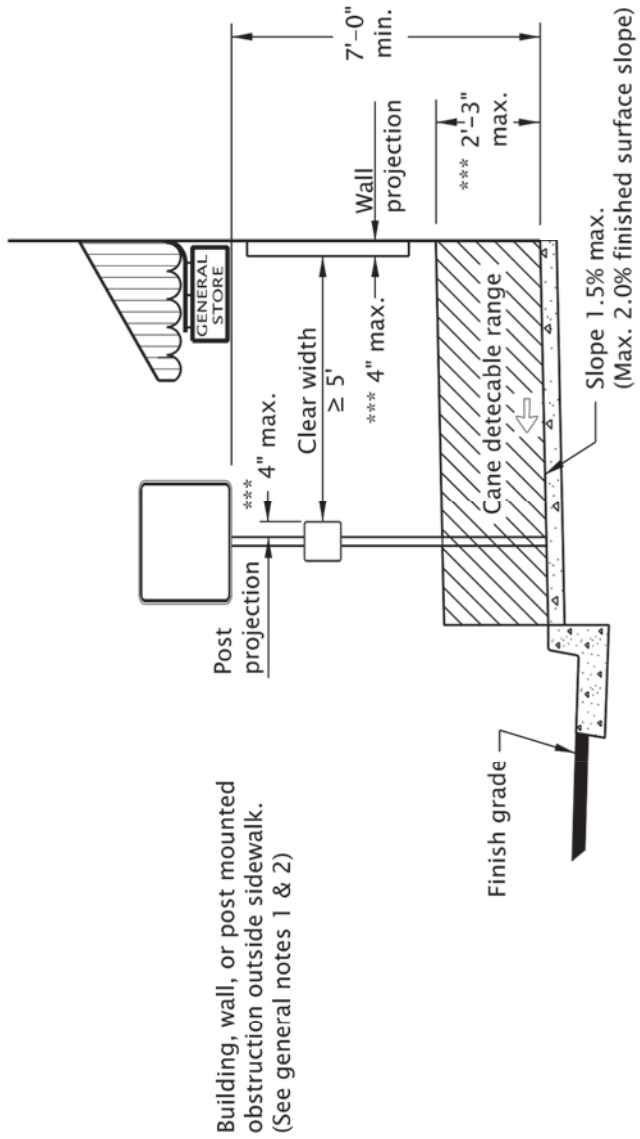
TYPICAL MONOLITHIC CURB & SIDEWALK CROSS SECTION

<p>GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:</p> <ol style="list-style-type: none"> <li>Include additional paved or unpaved 2' shy distance to vertical faces higher than 5' such as retaining walls, sound walls, fences and buildings.</li> <li>Curb type and sidewalk width as shown on plans or as directed.</li> <li>On sidewalks 8' and wider, provide a longitudinal joint at the midpoint.</li> <li>Place contraction joint over top of pipe. See Std. Dwg. RD700 for weep hole details.</li> <li>Provide expansion joints around poles, posts, boxes, at ends of each driveway, and other fixtures which protrude through or against the structures.</li> <li>For sidewalk, monolithic curb &amp; sidewalk, const. expansion joints at 45' maximum spacing. See Std. Dwg. RD722 for expansion joints details.</li> <li>Const. contraction joints at 15' maximum spacing, and at ends of each curb ramp.</li> <li>See Std. Dwg. RD722 for contraction joints details.</li> <li>For curb details, see Std. Dwg. RD700 &amp; RD701.</li> <li>ODOT standard E=7".</li> </ol>	
RD720	RD720

Effective Date: June 1, 2021 – November 30, 2021

RD720

\*\*\* Objects with base below 2'-3" may protrude any distance as long as the 5' circulation path is maintained. When an object with a base higher than 2'-3" protrudes further than 4" provide a detection below protrusion to delineate edge.



CLEAR CIRCULATION PATH

\* Min. 4" or as specified in plans. A thickness ≥ 6" if sidewalk is intended as portion of a driveway or mountable curb is used.

\*\* Provide compacted backfill adjacent to curb and sidewalk

REQUIRED SIDEWALK WIDENING  
AROUND OBSTRUCTIONS

- Sidewalk details are based on applicable ODOT standards.
- Fully lowered sidewalk shown; see project plans for the driveway design specified. For driveway details not shown, see Std. Dwg. RD725, RD730, RD735, RD740, RD745 & RD750.
- See project plans for details not shown.

LEGEND	
	Sidewalk pay limit.
	Driveway pay limit, varies by option, (See general note 8).
	Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)

E = curb exposure, see general note 6



0	4/30/2021	JRL	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	



RENEWS 12-31-22

WARNING

0

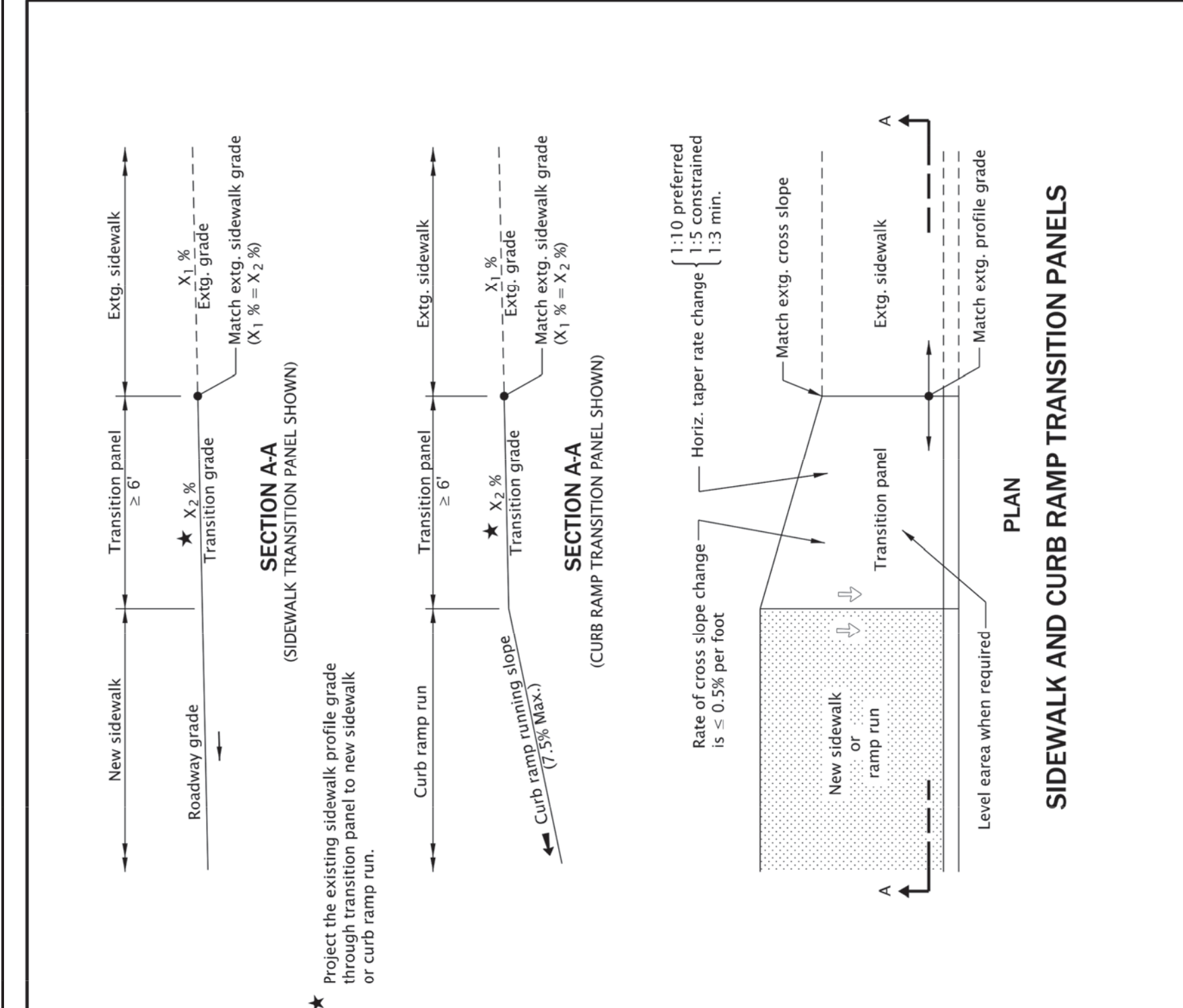
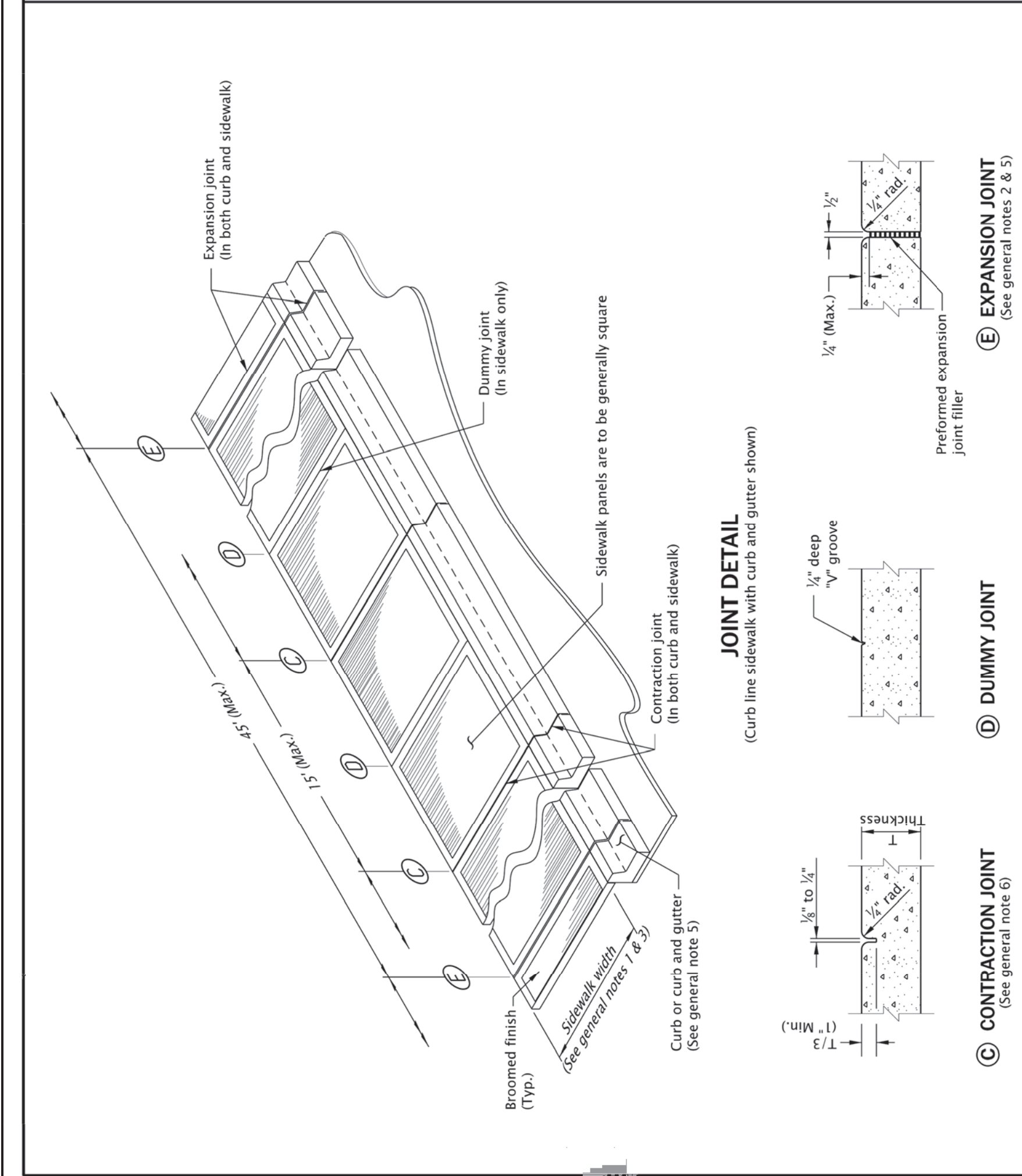
1/2

1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CITY OF ROSEBURG		DESIGNED	B. FALK	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN	K. HARJALA	
SURFACE RESTORATION DETAILS - 2		CHECKED	J. LUCE	DRAWING
		DATE	04/30/2021	C-16



GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. See Std. Dwg. RD720 & RD721 for concrete sidewalk details. See project plans for sidewalk width, placement and design specified.

2. Provide expansion joints around poles, boxes, at ends of each driveway and other fixtures which protrude through or against the structures. For sidewalk, monolithic curb and sidewalk, construction expansion joints at 45' max. spacing.

3. On sidewalks 8' and wider, provide a longitudinal joint at the midpoint of sidewalk panel.

4. See Std. Dwg. RD700 & RD701 for concrete curb details. See project plans for the curb design specified.

5. For curb ramps, do not place expansion joints within the limits of curb ramps and between separate concrete pours.

6. Const. contraction joints at 15' max. spacing, and at each curb ramp, driveway, sidewalk and curb.

LEGEND:

New sidewalk or ramp run

Slope 1.5% max.  
(Max. 2.0% finished surface slope)  
(Normal sidewalk cross slope)

Slope 2.5% max.  
(Max. 8.3% finished surface slope)

Zero exposure

CALC. BOOK NO. N/A

SR DATE 20-JUL-2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

SIDEWALK JOINTS AND TRANSITION PANELS

DATE 2021

REGION DESCRIPTION

RD722

Effective Date: June 1, 2021 – November 30, 2021

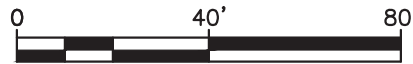




LEGEND

- INLET PROTECTION - TYPE 3
- INLET PROTECTION - TYPE 10
- DRAINAGE FLOW DIRECTION
- SEDIMENT FENCE

PLAN  
SCALE: 1"= 40'



0	4/30/2021	JRL	ISSUED FOR BID	
REV	DATE	BY	DESCRIPTION	



WARNING  
0 1/2 1  
IF THIS BAR DOES NOT  
MEASURE 1" THEN  
DRAWING IS NOT TO SCALE.



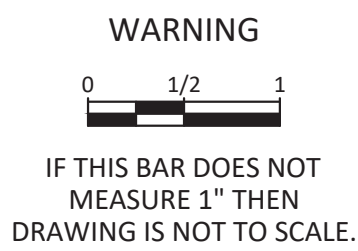
CITY OF ROSEBURG  
WASHINGTON AVE BORE CROSSING  
EROSION AND SEDIMENT CONTROL PLAN

DESIGNED B. FALK  
DRAWN K. HARJALA  
CHECKED J. LUCE  
DATE 04/30/2021

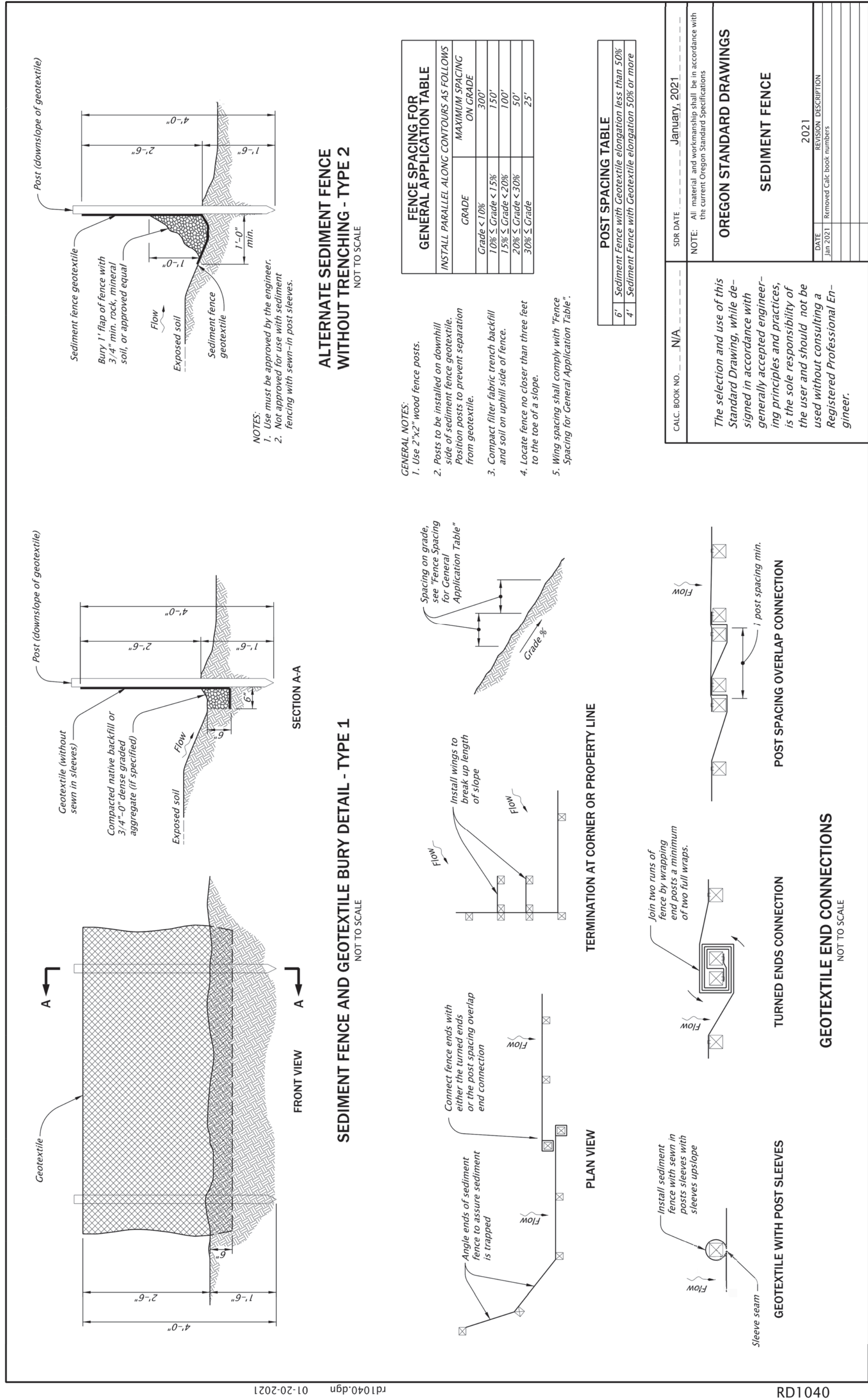
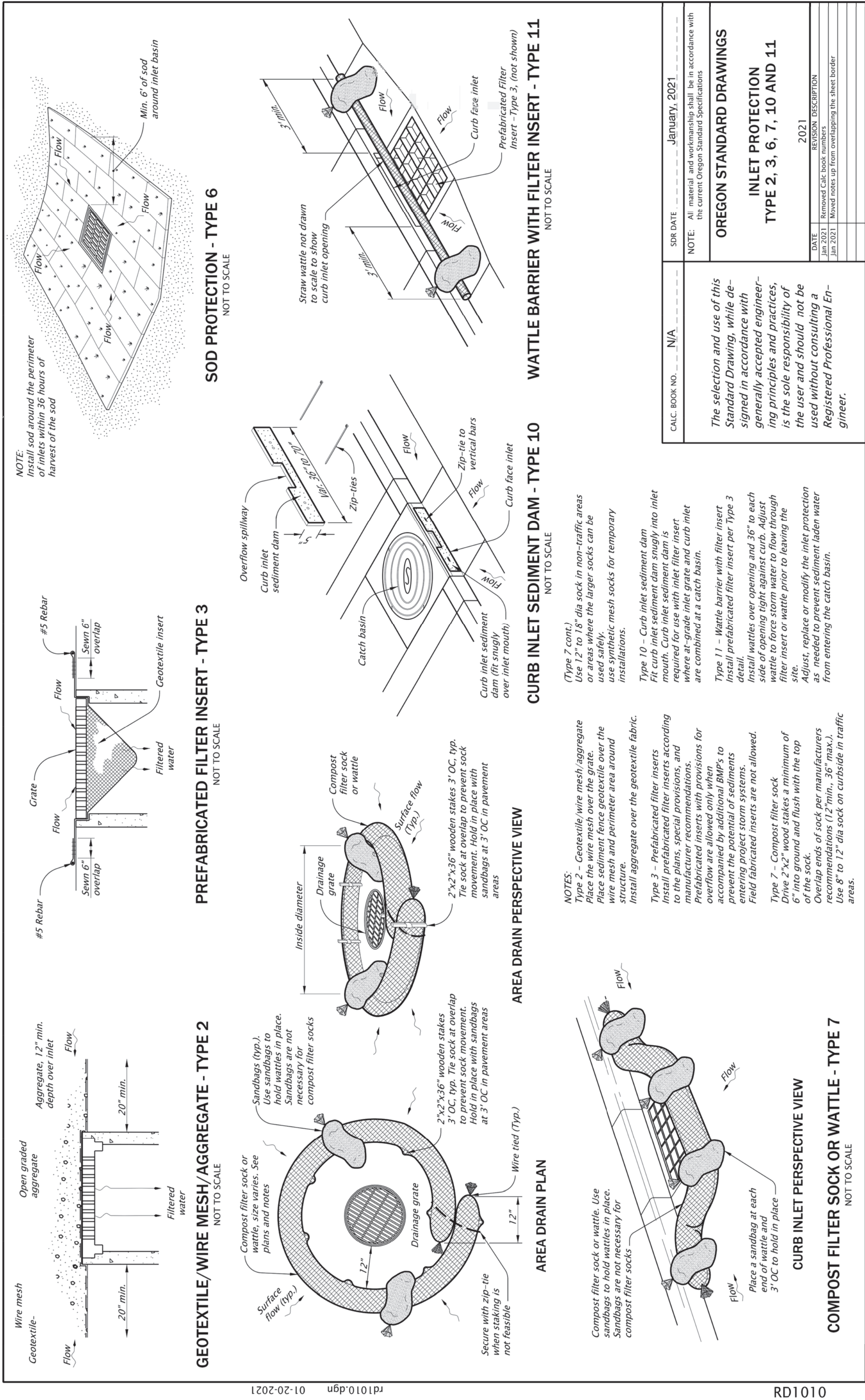
WORK DESIGNATION  
DRAWING  
ESC-1



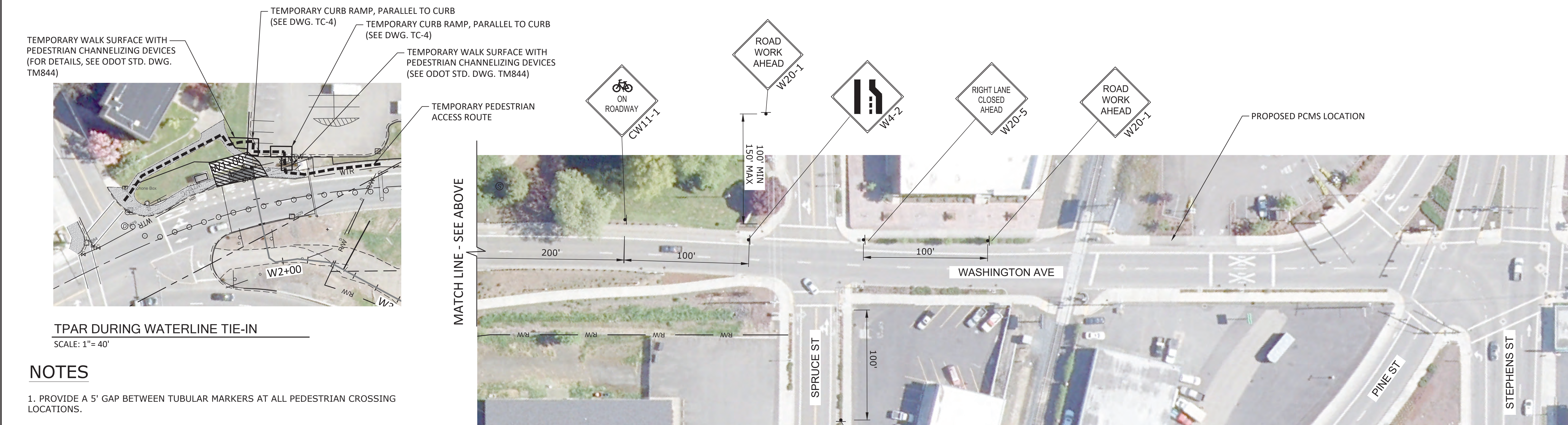
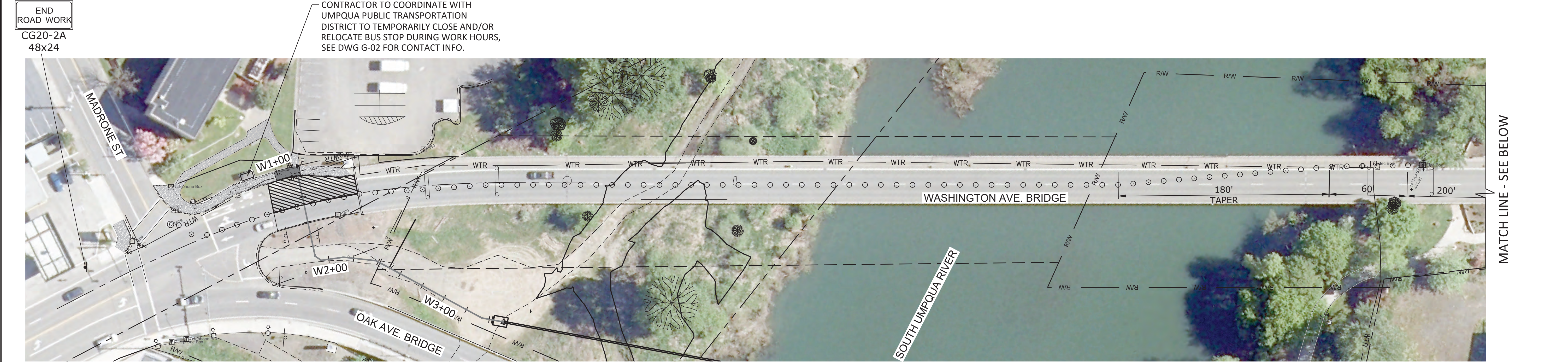
0	4/30/2021	JRL	ISSUED FOR BID
REV	DATE	BY	DESCRIPTION



CITY OF ROSEBURG	DESIGNED	B. FALK	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING	DRAWN	K. HARJALA	
EROSION AND SEDIMENT CONTROL DETAILS	CHECKED	J. LUCE	DRAWING <b>ESC-2</b>
	DATE	04/30/2021	







TPAR DURING WATERLINE TIE-IN  
SCALE: 1"= 40'

NOTES

1. PROVIDE A 5' GAP BETWEEN TUBULAR MARKERS AT ALL PEDESTRIAN CROSSING LOCATIONS.
2. SEE ODOT STD. DWG. TM800, TM820, TM821, TM842, TM843, TM844 AND TM851 FOR STANDARD LANE CLOSURES AND TEMPORARY SIGN DETAILS NOT SHOWN ON PLANS.
3. SEE ODOT STD. DWG. TM841, TM843, TM850, AND TM852 FOR INTERSECTION AND TRAVEL LANE WORK ZONE DETAILS.
4. PLACE CHANNELIZING DEVICES AROUND INTERSECTION RADII AND CONSTRUCTION ACCESSES AT 10' SPACING.
5. WORK TO BE PERFORMED AT NIGHT. SEE SPECIFICATION SECTION 01 12 16. WORK SEQUENCE AND SCHEDULE CONSTRAINTS FOR ALLOWABLE WORK HOURS.
7. PCMS TO BE IN PLACE AT LEAST 1 WEEK BEFORE CONSTRUCTION ACTIVITIES BEGIN.
8. SEE DRAWINGS C-6 AND C-14 FOR WATER LINE TRENCH CROSSING AND TIE-IN, AND GRIND AND INLAY WORK, RESPECTIVELY.

RIGHT LANE CLOSURE PLAN - STAGE 1  
SCALE: 1"= 40'

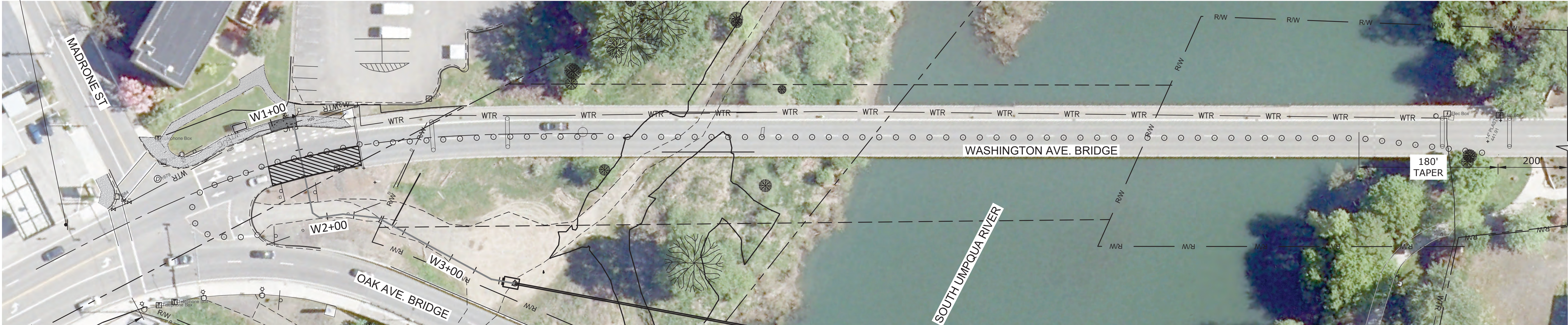
LEGEND

- ○ ○ ○ ○ ○ 28" TUBULAR MARKERS ON 20' MAX SPACING
- ▨ UNDER CONSTRUCTION
- ⚠ TEMPORARY SIGN

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END  
ROAD WORK  
CG20-2A  
48x24



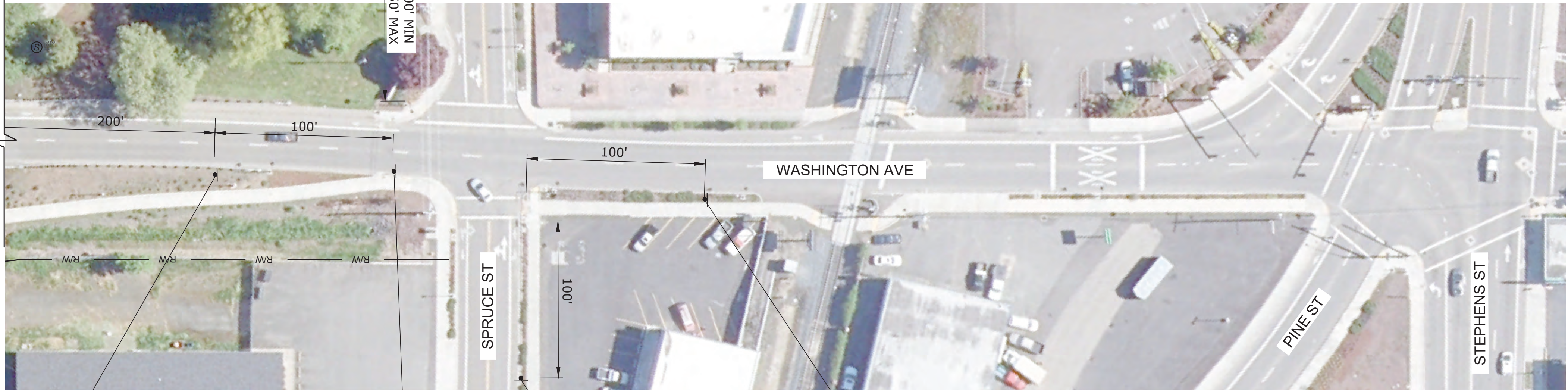
NOTES

1. PROVIDE A 5' GAP BETWEEN TUBULAR MARKERS AT ALL PEDESTRIAN CROSSING LOCATIONS.
2. SEE ODOT STD. DWG. TM800, TM820, TM821, TM842, TM843, TM844 AND TM851 FOR STANDARD LANE CLOSURES AND TEMPORARY SIGN DETAILS NOT SHOWN ON PLANS.
3. SEE ODOT STD. DWG. TM841, TM843, TM850, AND TM852 FOR INTERSECTION AND TRAVEL LANE WORK ZONE DETAILS.
4. PLACE CHANNELIZING DEVICES AROUND INTERSECTION RADII AND CONSTRUCTION ACCESSES AT 10' SPACING.
5. WORK TO BE PERFORMED AT NIGHT. SEE SPECIFICATION SECTION 01 12 16. WORK SEQUENCE AND SCHEDULE CONSTRAINTS FOR ALLOWABLE WORK HOURS.
6. PCMS TO BE IN PLACE AT LEAST 1 WEEK BEFORE CONSTRUCTION ACTIVITIES BEGIN.
7. SEE DRAWINGS C-6 AND C-14 FOR WATER LINE TRENCH CROSSING AND TIE-IN, AND GRIND AND INLAY WORK, RESPECTIVELY.

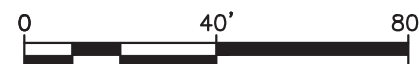
LEGEND

- ○ ○ ○ ○ ○ 28" TUBULAR MARKERS ON 20' MAX SPACING
- UNDER CONSTRUCTION
- TEMPORARY SIGN

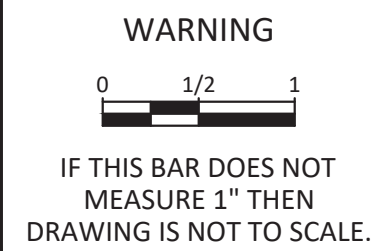
MATCH LINE - SEE ABOVE



LEFT LANE CLOSURE PLAN - STAGE 2  
SCALE: 1"= 40'

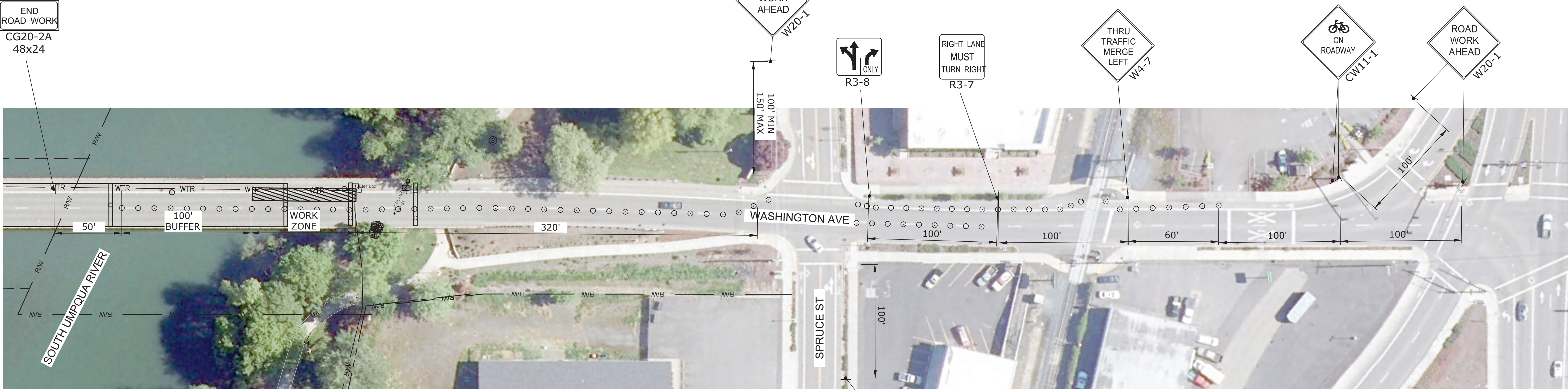


REV	DATE	BY	DESCRIPTION
0	4/30/2021	CSL	ISSUED FOR BID



CITY OF ROSEBURG		DESIGNED	A. MADRIGAL	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING		DRAWN	K. LIEBE	
GRIND/INLAY AND TRENCH CROSSING TRAFFIC CONTROL PLAN - STAGE 2		CHECKED	C. LINK	DRAWING
		DATE	04/30/2021	TC-2





NOTES

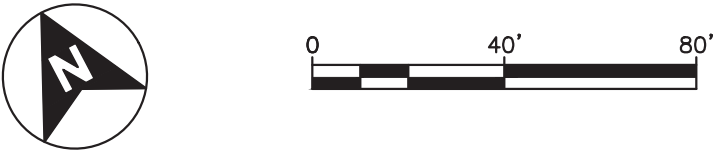
- 1. PROVIDE A 5' GAP BETWEEN TUBULAR MARKERS AT ALL PEDESTRIAN CROSSING LOCATIONS.
- 2. SEE ODOT STD. DWG. TM800, TM820, TM821, TM842, TM843, TM844 AND TM851 FOR STANDARD LANE CLOSURES AND TEMPORARY SIGN DETAILS NOT SHOWN ON PLANS.
- 3. SEE ODOT STD. DWG. TM841, TM843, TM850, AND TM852 FOR INTERSECTION AND TRAVEL LANE WORK ZONE DETAILS.
- 4. PLACE CHANNELIZING DEVICES AROUND INTERSECTION RADII AND CONSTRUCTION ACCESSSES AT 10' SPACING.
- 5. WORK TO BE PERFORMED AT TBD. SEE SPECIFICATION SECTION 01 12 16, WORK SEQUENCE AND SCHEDULE CONSTRAINTS FOR ALLOWABLE WORK HOURS.
- 6. EXTEND RIGHT LANE CLOSURE AND PROVIDE SIMILAR TRAFFIC CONTROL FOR POSSIBLE WORK ZONE LOCATED ON WEST END OF BRIDGE TO ACCESS AND ABANDON/REMOVED EXPOSED PIPING THERE, IF REQUIRED. SEE DRAWINGS C-11 AND C-12 FOR BRIDGE PIPE ABANDONMENT WORK REQUIREMENTS.

LEGEND

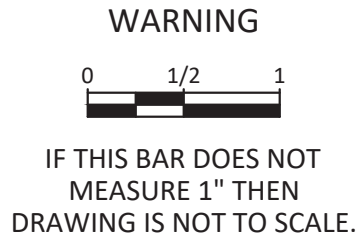
- ○ ○ ○ ○ ○ 28" TUBULAR MARKERS ON 20' MAX SPACING
- ▨ UNDER CONSTRUCTION
- ⚡ TEMPORARY SIGN

LANE CLOSURE PLAN - PIPE ON BRIDGE  
ABANDONMENT/REMOVAL

SCALE: 1"= 40'



0	4/30/2021	CSL	ISSUED FOR BID
REV	DATE	BY	DESCRIPTION

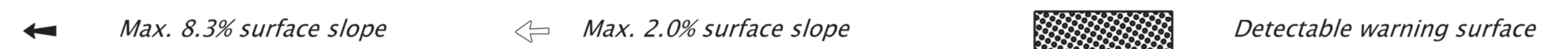


CITY OF ROSEBURG	DESIGNED A. MADRIGAL	WORK DESIGNATION
WASHINGTON AVE BORE CROSSING	DRAWN K. LIEBE	
ACCESS FROM BRIDGE DECK FOR PIPE ABANDONMENT TRAFFIC CONTROL PLAN	CHECKED C. LINK	DRAWING
	DATE 04/30/2021	TC-3





- ① *Clear width shall be greater than or equal to 48 inches. The sidewalk ramp surface shall be firm, stable and slip-resistant. The ramp surface shall have a 8.3% max. finished surface slope.*
- ② *Detectable edging with a min. 6 inch height shall be placed along the ramp run when there is a vertical drop exceeding 6 inches or is adjacent to a slope exceeding 1:3 (v:h).*
- ③ *Detectable edging with 6 inch min. height and contrasting color shall be placed on all turning spaces where the walkway changes direction.*
- ④ *Sidewalk ramps and turning spaces shall have a 2.0% max. finished cross slope.*
- ⑤ *Clear space of 48 inch x 48 inch or greater shall be provided above and below the sidewalk ramp.*
- ⑥ *The sidewalk ramp walkway edge shall be marked with a contrasting color, 4 inch wide stripe. The marking is optional where contrasting detectable edging is used.*
- ⑦ *Provide an approved means to prevent water from accumulating at the bottom of the ramp, or overflowing onto the ramp surface.*
- ⑧ *Lateral joints or gaps between surfaces shall be less than 0.5 inch wide. Surface slopes that meet at grade break shall be flush. See edge treatment detail.*
- ⑨ *Changes between surface heights shall not exceed 0.5 inch. Lateral edges should be vertical up to 0.25 inch high, and beveled at 1:2 (v:h) between 0.25 inch and 0.5 inch height. See edge treatment detail.*
- ⑩ *Install a min. 2 ft wide detectable warning surface at pedestrian street crossings. Omit detectable warning surfaces at end of sidewalk transitions that are not at a crosswalk.*
- ⑪ *Side flares where provided shall have 10% max. slope.*
- ⑫ *The sidewalk ramp surface shall be capable of supporting a min. surface load of approximately 800 pounds.*
- ⑬ *The sidewalk ramp shall be either self-balasting or include an anchoring system capable of keeping the platform stationary under pedestrians traffic including motorized wheelchairs.*
- ⑭ *The sidewalk ramp platform shall be free of sharp or rough edges or abrasive elements that may harm pedestrians.*



## TEMPORARY SIDEWALK RAMP DETAILS

SCALE: NTS

[illegible]