

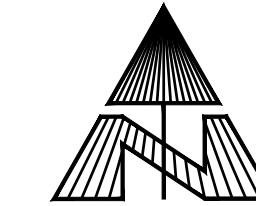
PORT OF TOLEDO BOATYARD

SCHEDULE 1: CORE SANITARY SEWER SYSTEM AND PUMP STATIONS

SCHEDULE 2: BOAT WASHDOWN WASTEWATER TREATMENT



VICINITY MAP
NOT TO SCALE




SHEET INDEX:

SHEET NUMBER	SHEET NAME	SHEET DESCRIPTION
01	G01	COVER SHEET
02	G02	SCHEDULE 1
03	G03	CITY OF TOLEDO STANDARD NOTES
04	G04	CITY OF TOLEDO STANDARD NOTES
05	S01	FORCE MAIN PLAN
06	S02	FORCE MAIN PLAN
07	S03	FORCE MAIN PLAN
08	S04	FORCE MAIN PLAN
09	S05	FORCE MAIN PLAN
10	S06	FORCE MAIN PLAN
11	BR01	BRIDGE CROSSING PLAN
12	PS01	SITE LAYOUT PS-01 AND PS-02
13	PS02	SITE LAYOUT PS-03
14	PS03	SOLIDS TANK AND PUMP STATION DETAILS
15	PS04	PUMP STATION PS-03 DETAILS
16	CD01	CITY OF TOLEDO STANDARD DETAILS
17	CD02	CITY OF TOLEDO STANDARD DETAILS
18	WD01	SCHEDULE 2
19	WD02	WASHDOWN PAD LAYOUT
20	WD03	WASHDOWN PAD DETAILS

NO.	DATE	REVISIONS

PORT OF TOLEDO
PROJECT SITE:
496 NE HWY 20, UNIT 1,
TOLEDO, OR 97123



COVER SHEET

BOATYARD - SANITARY SEWER PROJECT



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13467 SW SUMMERWOOD DR.
TIGARD, OR 97225
(503)-333-3470
WALTER L. COOK P.E.

DATE 7/25/2022	PROJ. NO.:
SCALE: 1" = 150'	XXX
DRAWN BY: MJJ	CHECKED BY: WLC

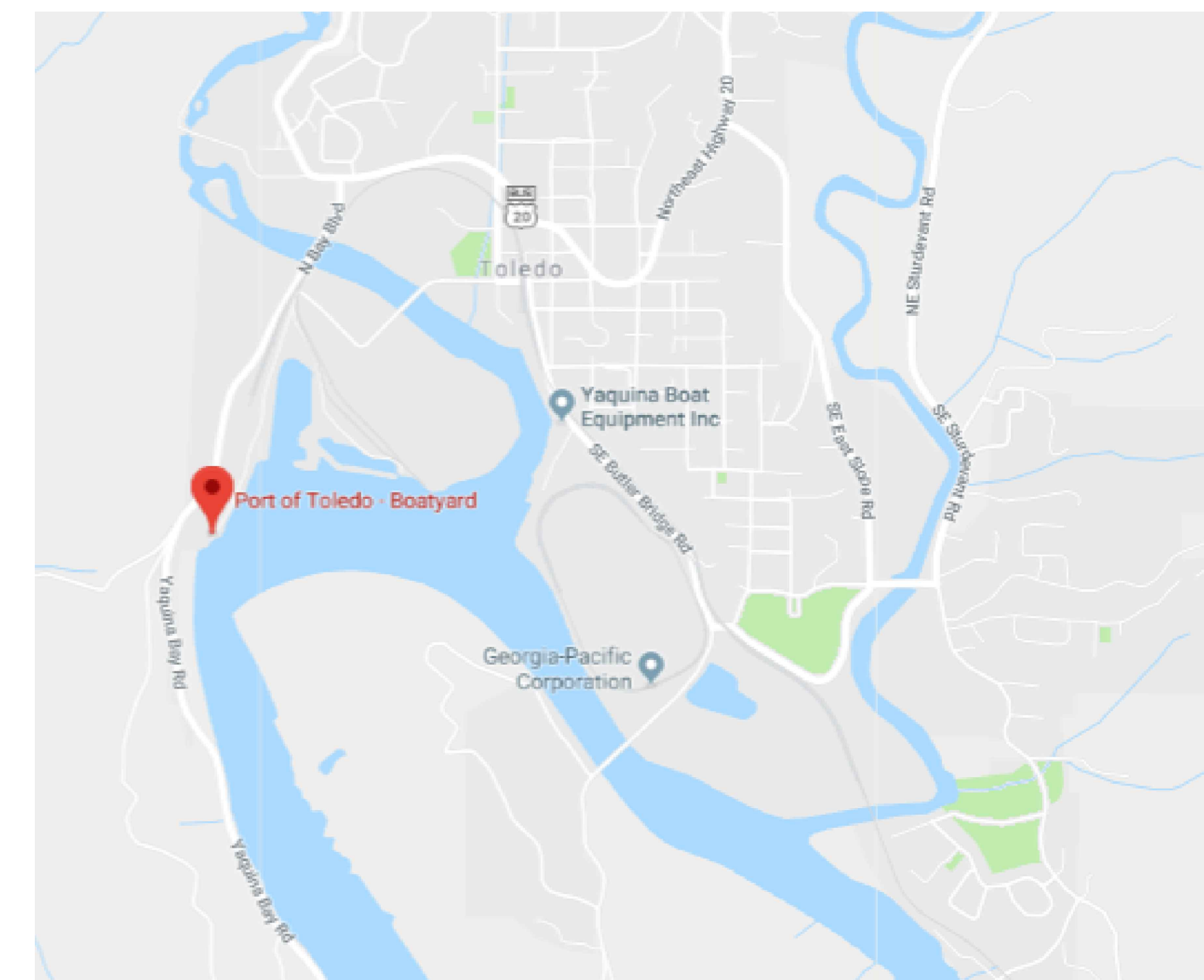
SHEET NO
G01
1 OF 20

SCHEDULE 1: CORE SANITARY SEWER AND PUMP STATIONS

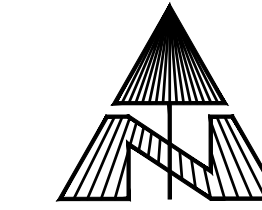
SEWER SYSTEM STANDARD GENERAL NOTES:

- ALL SEWER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF THE CITY OF TOLEDO DESIGN AND CONSTRUCTION STANDARDS, ASCE STANDARDS, OREGON ADMINISTRATIVE RULES (OAR), AND THE OREGON PLUMBING SPECIALTY CODE (OPSC).
- LOCATIONS SHOWN FOR EXISTING UTILITIES ARE BASED ON AVAILABLE INFORMATION AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION; POT HOLE ALL EXISTING UTILITIES AS REQUIRED TO AVOID CONFLICTS WITH THE PROPOSED SEWER LINE; AND INFORM THE ENGINEER OF ANY DISCREPANCIES IN THE PLANS.
- THE CONTRACTOR SHALL CALL THE OREGON UTILITY NOTIFICATION CENTER (811) AT LEAST 48 HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE BEGINNING EXCAVATION. 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. COPIES OF THE RULES ARE AVAILABLE THROUGH THE NOTIFICATION CENTER. IF ADDITIONAL INFORMATION IS DESIRED, YOU MAY CONTACT THE WATER DEPARTMENT AT 541-336-2247.
- THE CONTRACTOR SHALL NOTIFY THE PORT OF TOLEDO AT 541-336-5207 A MINIMUM 48 HOURS (TWO BUSINESS DAYS) PRIOR TO CONSTRUCTION. WEEKENDS AND HOLIDAYS ARE NOT TO BE COUNTED AS PART OF NOTIFICATION TIME.
- ALL SEWER SERVICE LINES SHALL HAVE A MINIMUM COVER OVER THE TOP OF THE PIPE OF 30 INCHES ON IMPROVED ROADS AND 42 INCHES ON UNIMPROVED AREAS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPER HORIZONTAL AND VERTICAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATERLINES AS REQUIRED BY THE OREGON HEALTH AUTHORITY, PUBLIC HEALTH DIVISION, OAR 333-061-0050.
- PRIOR TO BEING PLACED IN SERVICE, ALL SEWER LINES AND SERVICES SHALL BE LEAK TESTED. A REPRESENTATIVE MUST BE PRESENT DURING PRESSURE TESTING, FLUSHING AND DISINFECTION.
- THE CONTRACTOR SHALL PROTECT ALL SEWER APPURTENANCES DURING CONSTRUCTION. ANY TESTED AND APPROVED SEWER SERVICE THAT IS DISTURBED PRIOR TO THE CITY'S FINAL ACCEPTANCE OF ALL PUBLIC IMPROVEMENTS SHALL BE REMOVED AND REPLACED AT THE DEVELOPER'S EXPENSE.

- IN THE EVENT OF A CONFLICT OR CHANGE IN CONDITIONS, THE PORT OF TOLEDO RESERVES THE RIGHT TO MAKE FIELD ADJUSTMENTS TO THE LOCATION OF A SEWER LINE OR APPURTENANCE AS REQUIRED FOR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CURRENT EDITION OF DEQ "EROSION PREVENTION AND SEDIMENT CONTROL STANDARDS" AND CITY OF TOLEDO GRADING AND EROSION CONTROL PERMITS. COORDINATE EROSION CONTROL MEASURES WITH THE CITY OF TOLEDO INSPECTOR.
- TRAFFIC CONTROL IN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ODOT "MANUAL ON TRAFFIC PRACTICES HANDBOOK FOR LOCAL ROADS AND STREETS IN OREGON." DURING THE WORK DAY, ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL CONFINE PUBLIC IMPROVEMENT WORK TO THE DEDICATED RIGHT-OF-WAY AND UTILITY EASEMENT AREAS.
- DURING CONSTRUCTION, THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF ENGINEER APPROVED STAMPED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.

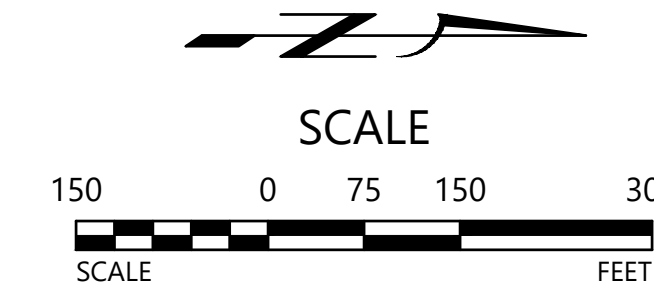
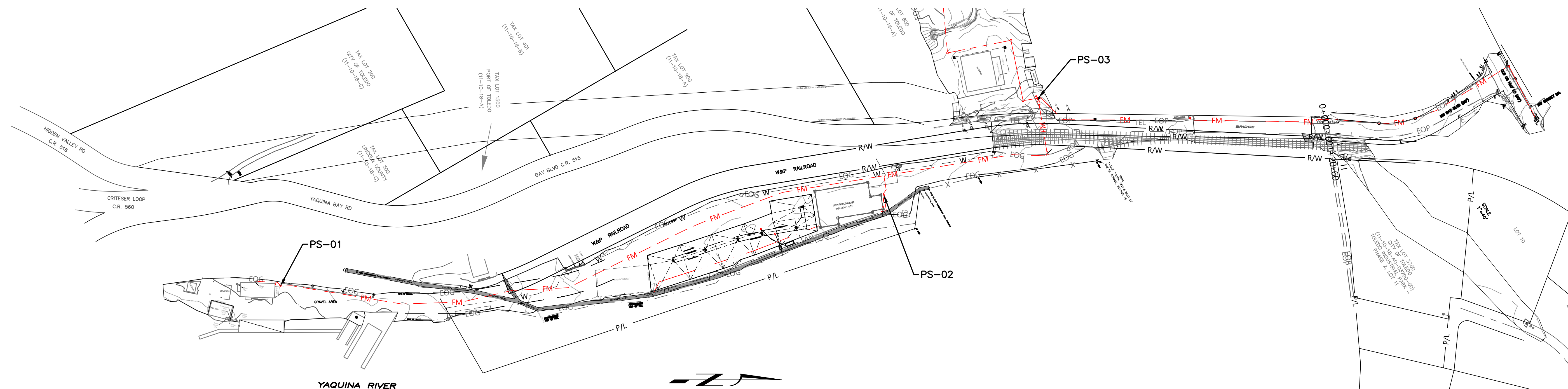


VICINITY MAP
NOT TO SCALE



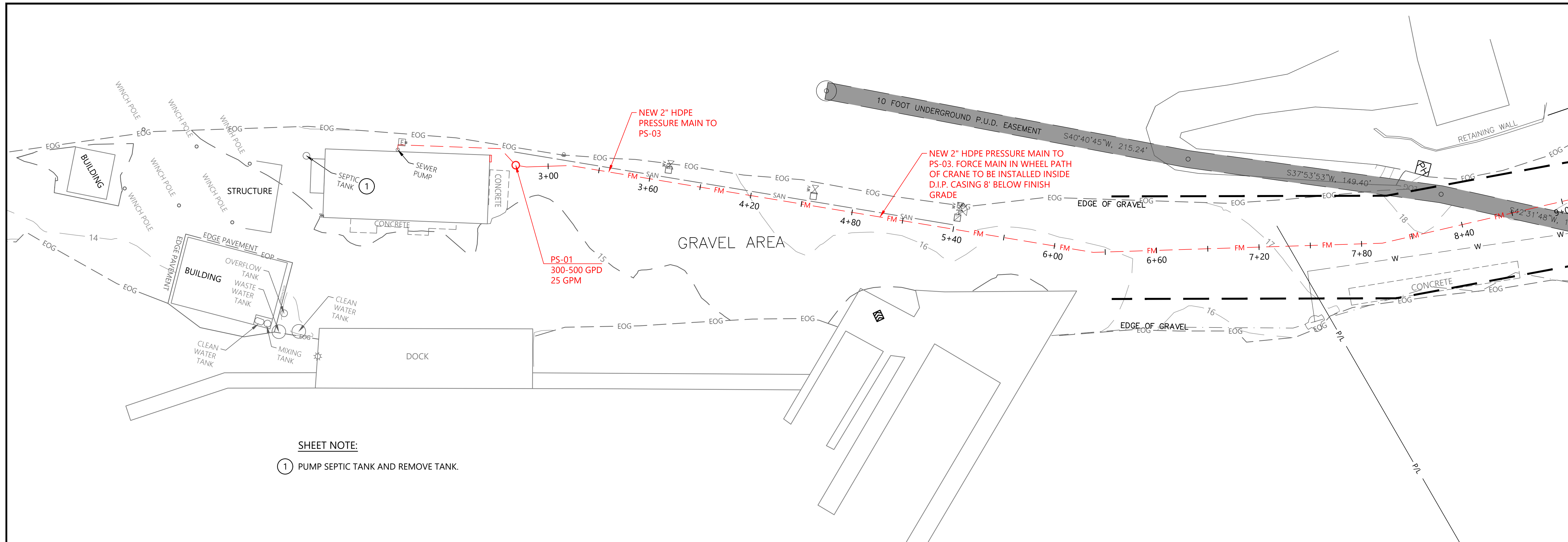
PUMP DATA

	PS-01	PS-02	PS-03	PS-04
Flow(GPM)	25	25	50	75
TDH in feet at Flow	40	20	40	20
Wet Well	BCPBPACKR8	BCPBPACKR8	RC-509	BCPBPACKR8
	Xylem	Xylem	Old Castle	Xylem
Gould Pump	1GD51G4BA	1GD51G4DA	3SDX12H4HF	1GD51G4DA
FLYGT			NP 3069 SG 3 ADAPTIVE 276	
	Simplex	Simplex	Duplex	Simplex
Pump On (elevation)	7'	12'	8.67'	10'
Pump Off (elevation)	5'	10'	8.17'	8'
Alarm (elevation)	8'	13'	9.67'	11'

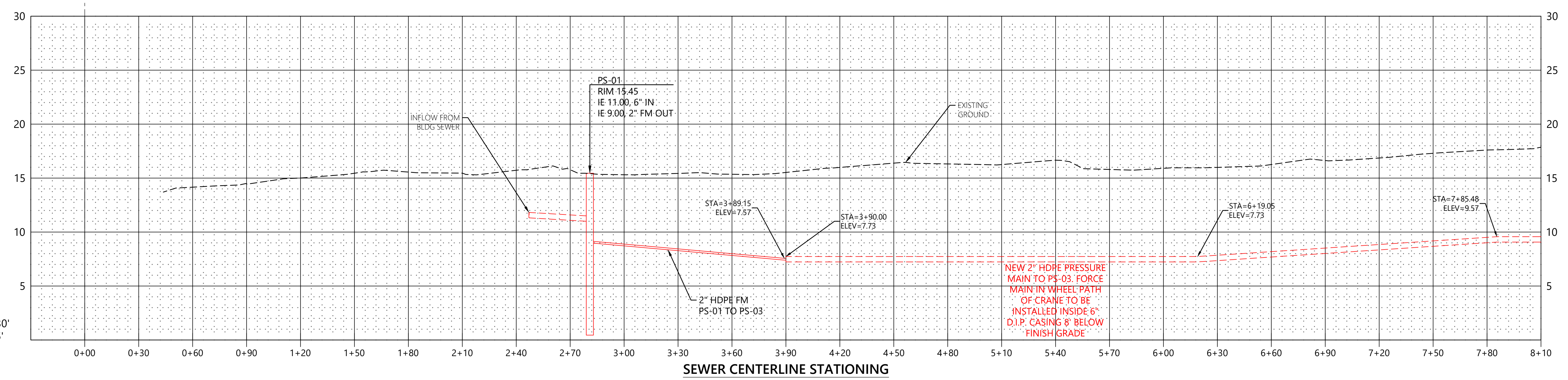


BID DRAWINGS -
7/10/23

BOATYARD - SANITARY SEWER PROJECT	REVISIONS DATE NO.
PORT OF TOLEDO PROJECT SITE: 496 NE HWY 20, UNIT 1, TOLEDO, OR 97123	
 SCHEDULE 1	
 Water Environment Resources Inc. simple solutions... excellent results	
13467 SW SUMMERWOOD DR. TIGARD, OR 97225 (503)-333-3470 WALTER L. COOK P.E.	
DATE: 7/25/2022 SCALE: 1" = 150' PROJ. NO.: XXX DRAWN BY: M.JJ CHECKED BY: WLC SHEET NO:	
G02 2 OF 20	



SHEET NOTE:
 ① PUMP SEPTIC TANK AND REMOVE TANK.

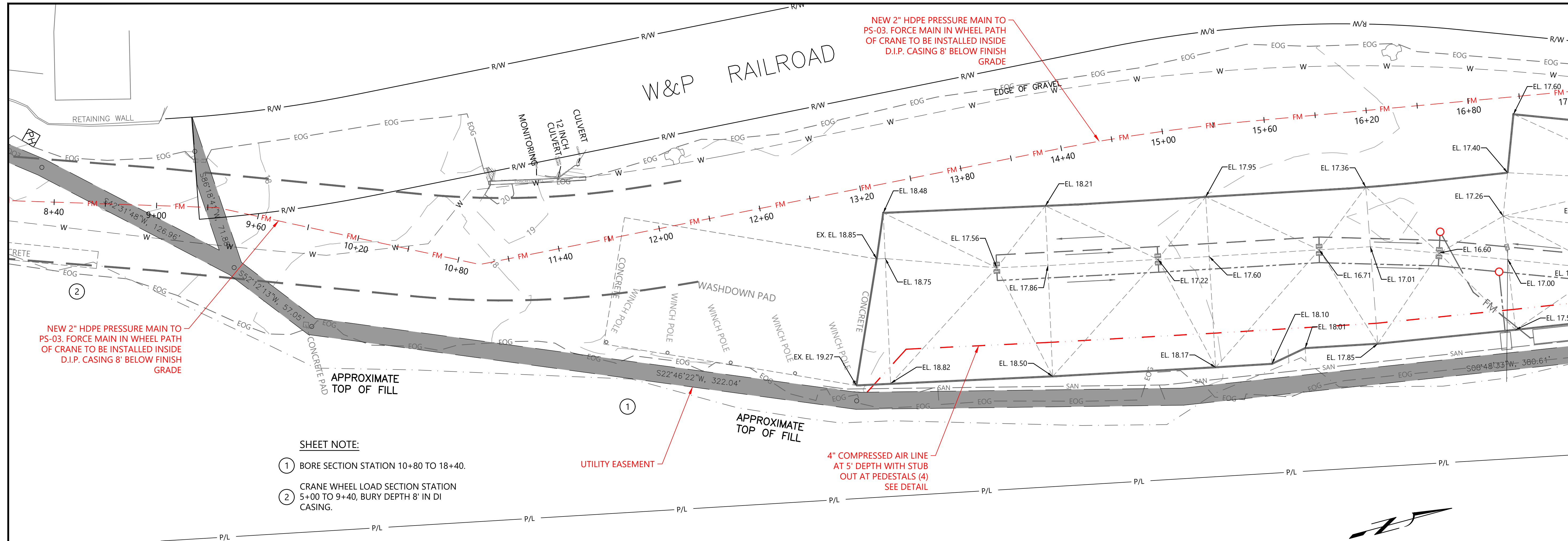


PROFILE:
 HORIZ 1"=30'
 VERT 1"=5'

SEWER CENTERLINE STATIONING

BID DRAWINGS -
 7/10/23

PORT OF TOLEDO	
PROJECT SITE: 496 NE HWY 20, UNIT 1, TOLEDO, OR 97123	
FORCE MAIN PLAN	
13467 SW SUMMERWOOD DR. TIGARD, OR 97225 (503)-333-3470 WALTER L. COOK P.E.	
DATE 7/25/2022	PROJ. NO.:
SCALE: 1" = 30'	XXX
DRAWN BY: MJJ	CHECKED BY: WLC
SHEET NO	
S01 5 OF 20	



NEW 2" HDPE PRESSURE MAIN TO PS-03. FORCE MAIN IN WHEEL PATH OF CRANE TO BE INSTALLED INSIDE D.I.P. CASING 8' BELOW FINISH GRADE

NEW 2" HDPE PRESSURE MAIN TO PS-03. FORCE MAIN IN WHEEL PATH OF CRANE TO BE INSTALLED INSIDE D.I.P. CASING 8' BELOW FINISH GRADE

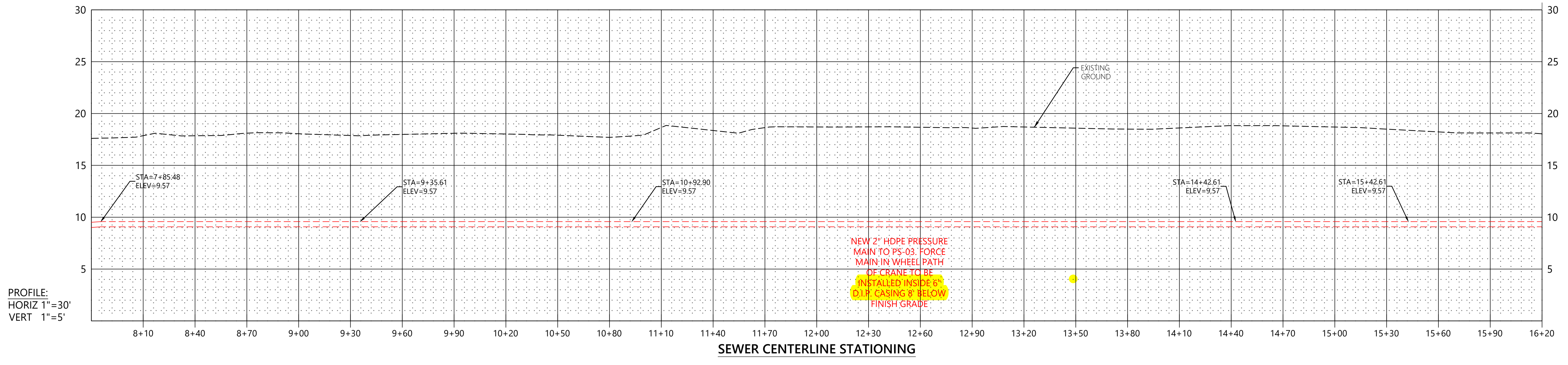
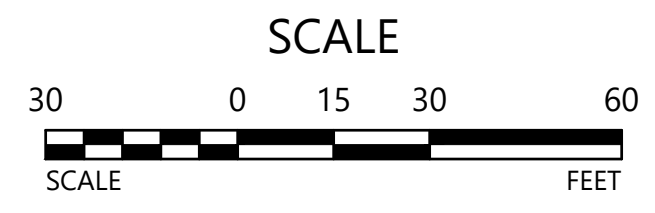
4" COMPRESSED AIR LINE AT 5' DEPTH WITH STUB OUT AT PEDESTALS (4) SEE DETAIL

- SHEET NOTE:**
- ① BORE SECTION STATION 10+80 TO 18+40.
 - ② CRANE WHEEL LOAD SECTION STATION 5+00 TO 9+40, BURY DEPTH 8' IN DI CASING.

UTILITY EASEMENT

APPROXIMATE TOP OF FILL

APPROXIMATE TOP OF FILL



PROFILE:
HORIZ 1"=30'
VERT 1"=5'

SEWER CENTERLINE STATIONING

NO.	DATE	REVISIONS

SHIPYARD - SANITARY SEWER PROJECT

PORT OF TOLEDO
PROJECT SITE:
496 NE HWY 20, UNIT 1,
TOLEDO, OR 97123

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WALTER L. COOK P.E.

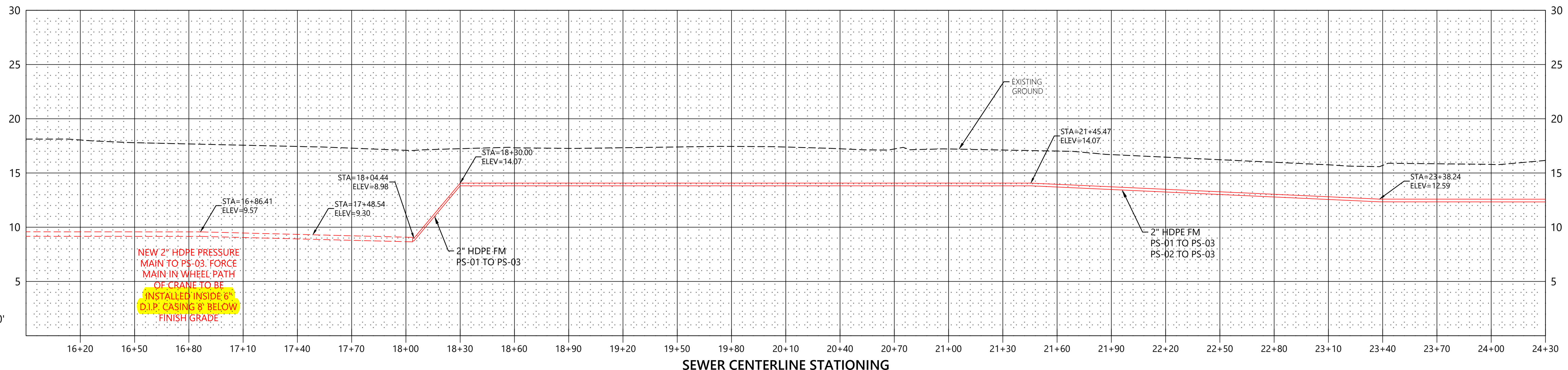
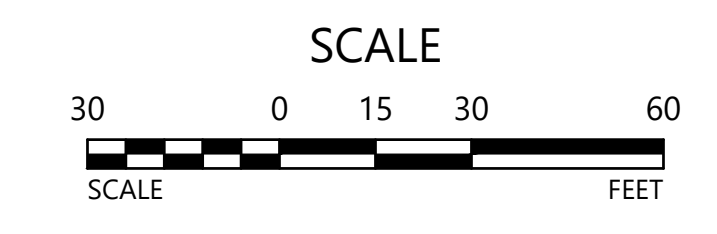
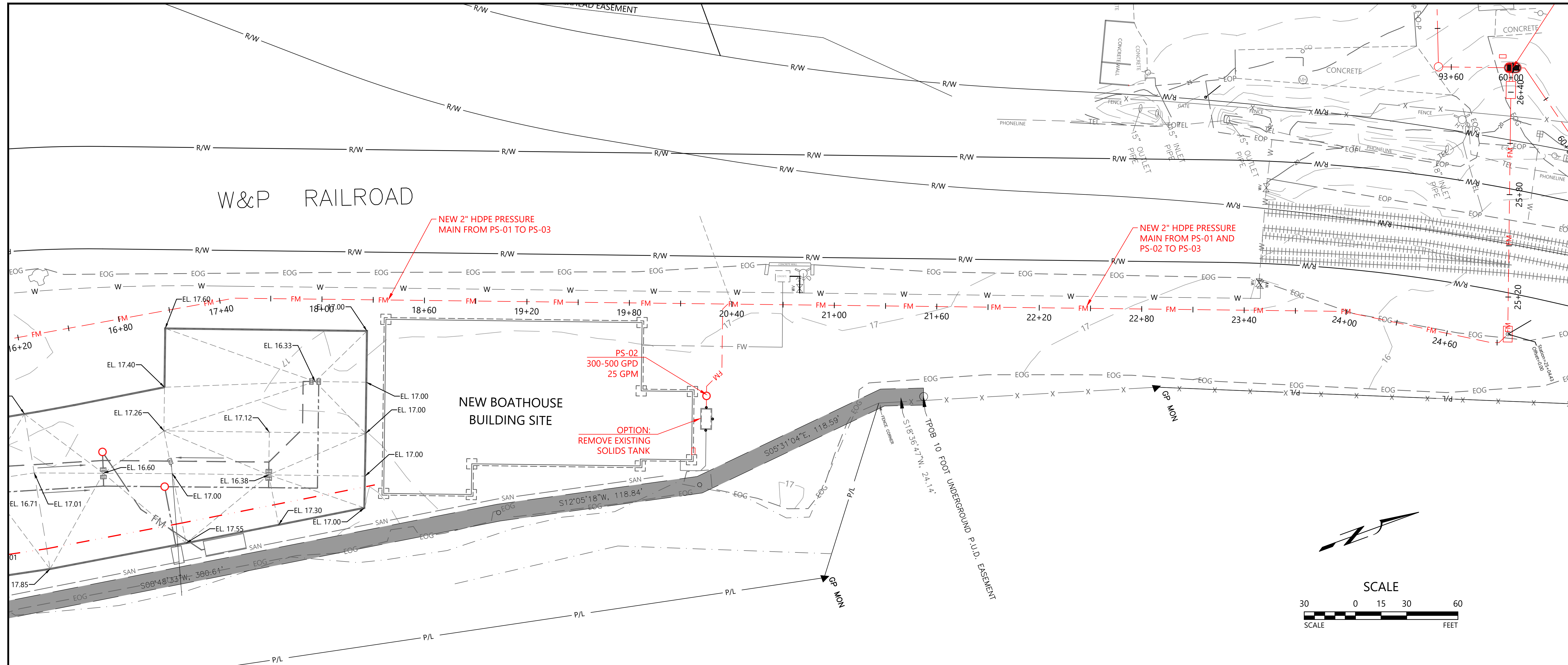
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SCALE: 1" = 30'
DRAWN BY: MJJ
SHEET NO:

PROJ. NO.: XXXX
CHECKED BY: WLC

S02
6 OF 20

BID DRAWINGS -
7/10/23

PT_PP1.dwg



PROFILE:
HORIZ 1"=30'
VERT 1"=5'

SEWER CENTERLINE STATIONING

BID DRAWINGS -
7/10/23

NO.	DATE	REVISIONS

PORT OF TOLEDO
PROJECT SITE:
496 NE HWY 20, UNIT 1,
TOLEDO, OR 97123

SHIPYARD - SANITARY SEWER PROJECT

FORCE MAIN PLAN

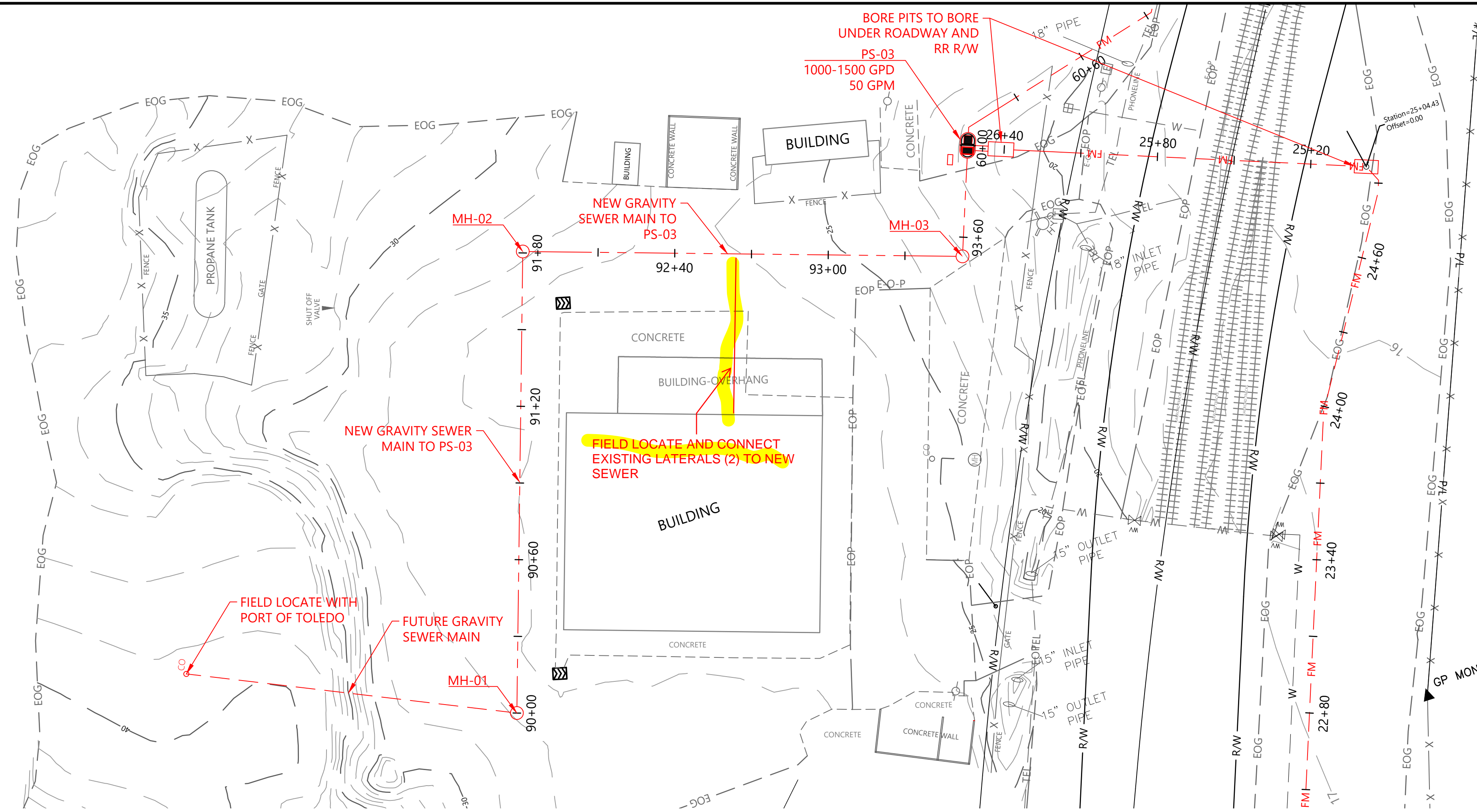
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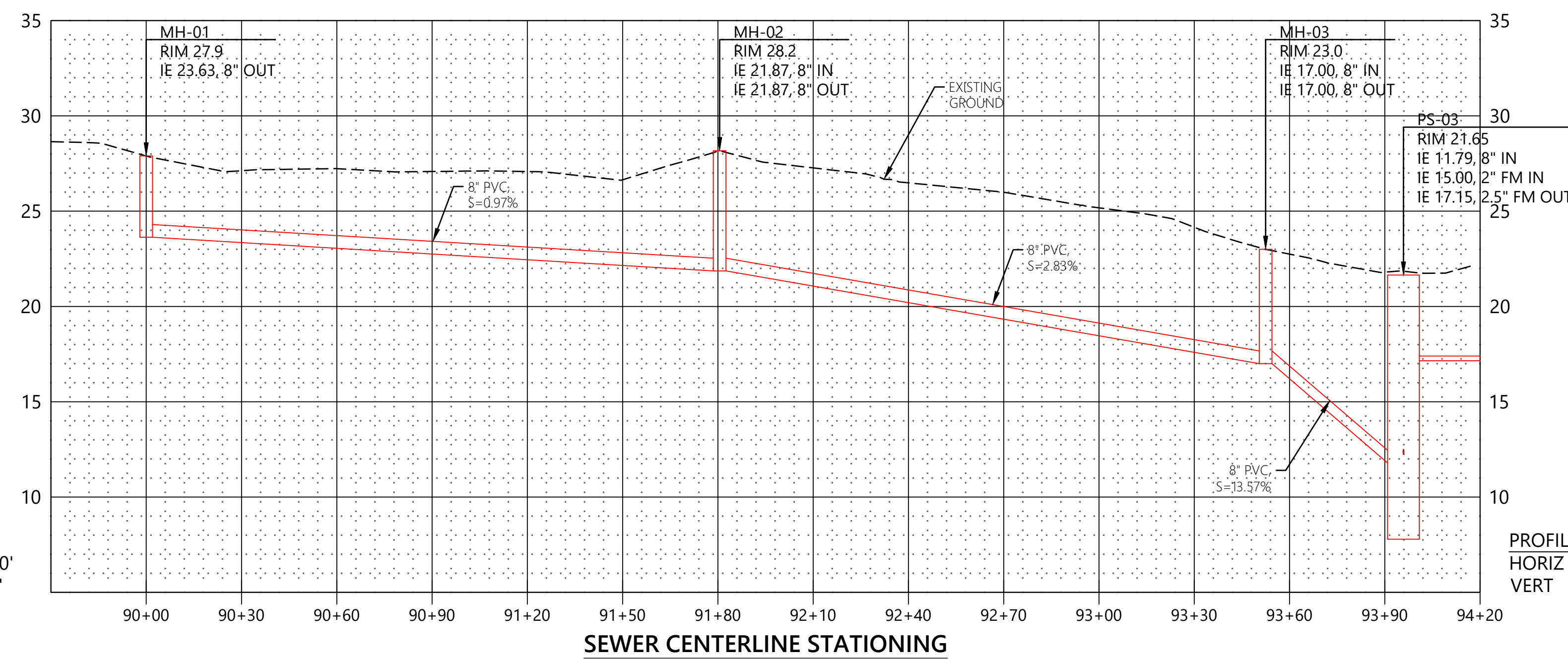
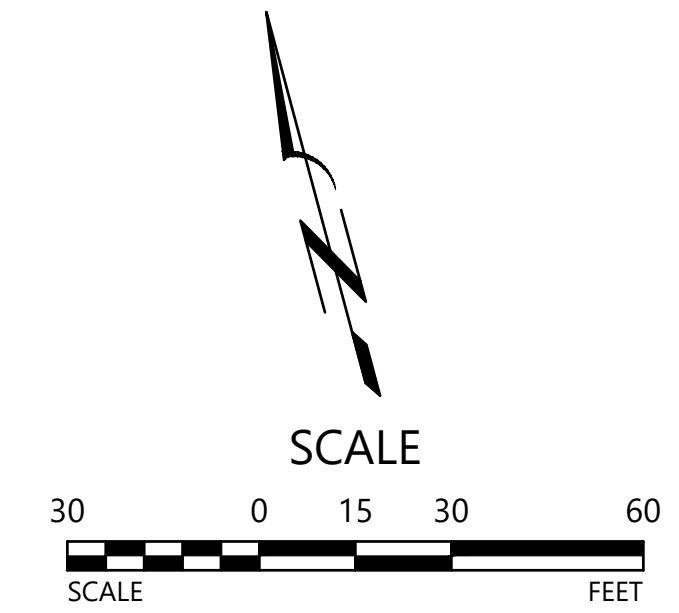
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SCALE: 1" = 30'	XXX
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SHEET NO	

S03
7 OF 20

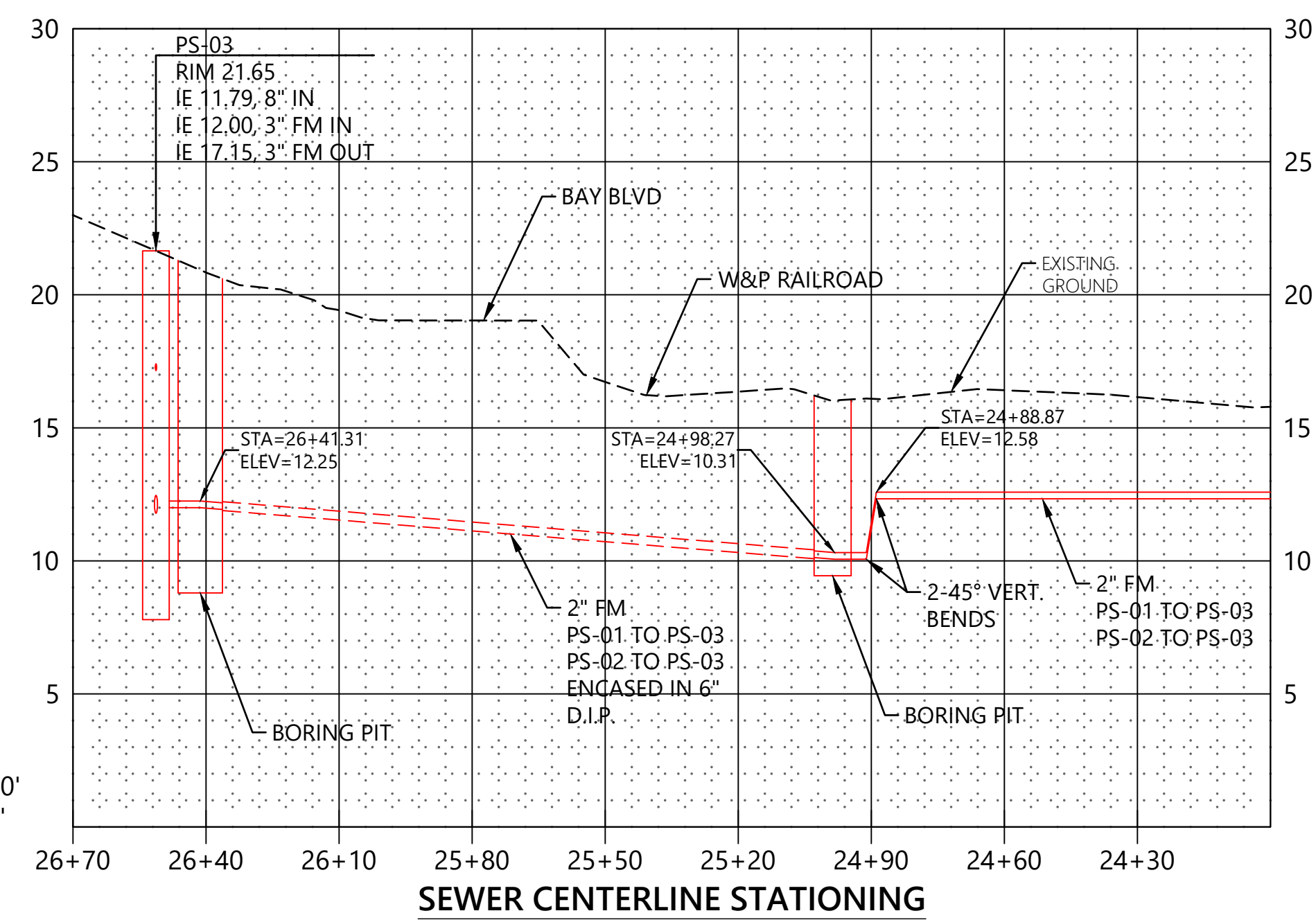
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- SHEET NOTES:**
- RAILROAD CROSSINGS SHALL BE IN ACCORDANCE WITH UPRR STANDARDS INCLUDING AREMA CHAPTER 1 APPLICABLE SECTIONS.
 - REFER TO UPRR PERMIT CROSSING DRAWING SET.
 - CONDUCT ALL WORK IN ACCORDANCE WITH THE APPROVED UPRR PERMIT APPLICATION.
 - CONTACT PWR FOR FLAGGING PERMIT AND REQUIREMENTS.
 - CONNECT EXISTING BUILDING LATERALS STA. 90+60 - 93+00.
 - DEMO EXISTING ONSITE SEWAGE SYSTEM.



PROFILE:
HORIZ 1"=30'
VERT 1"=5'

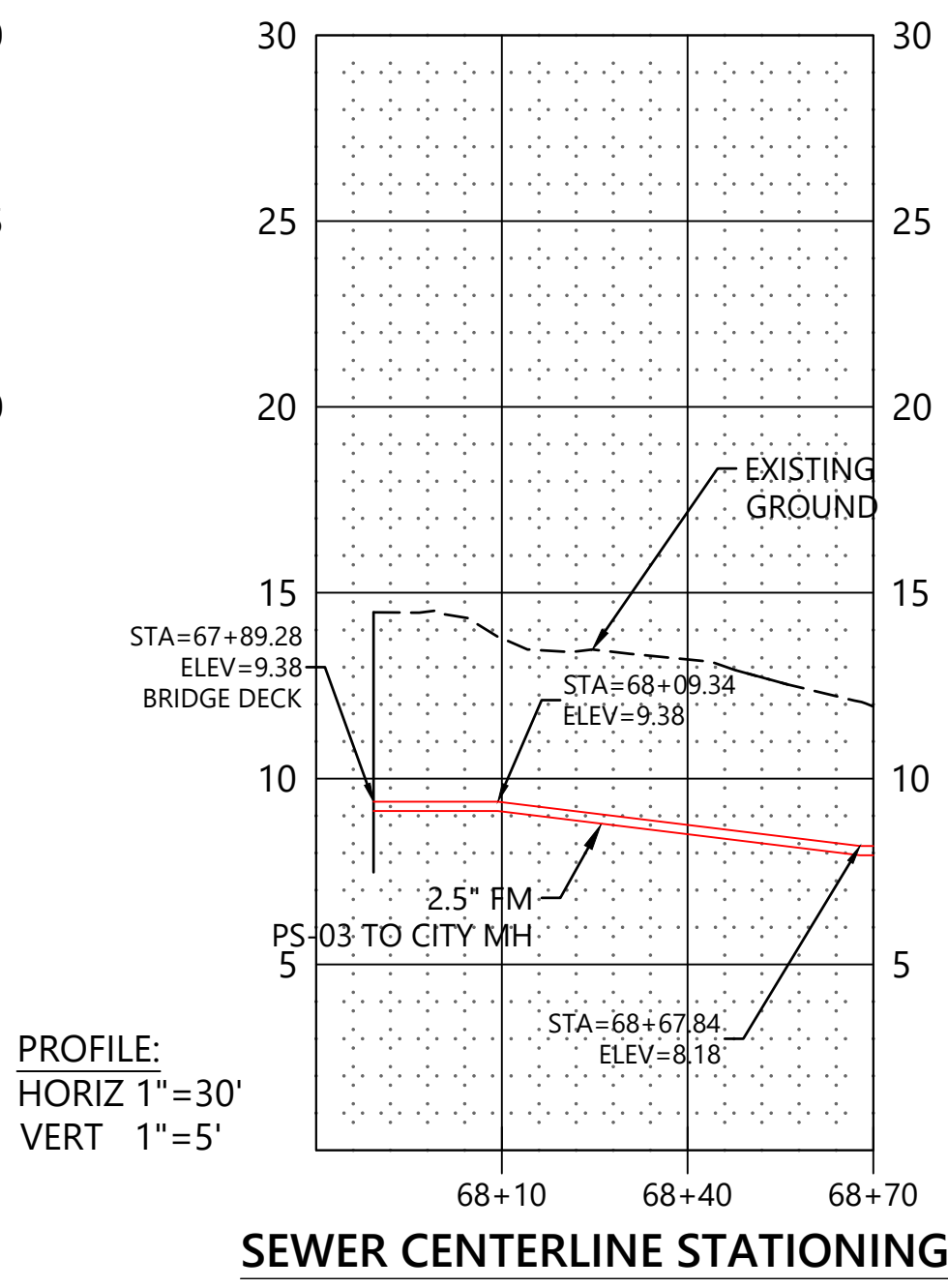
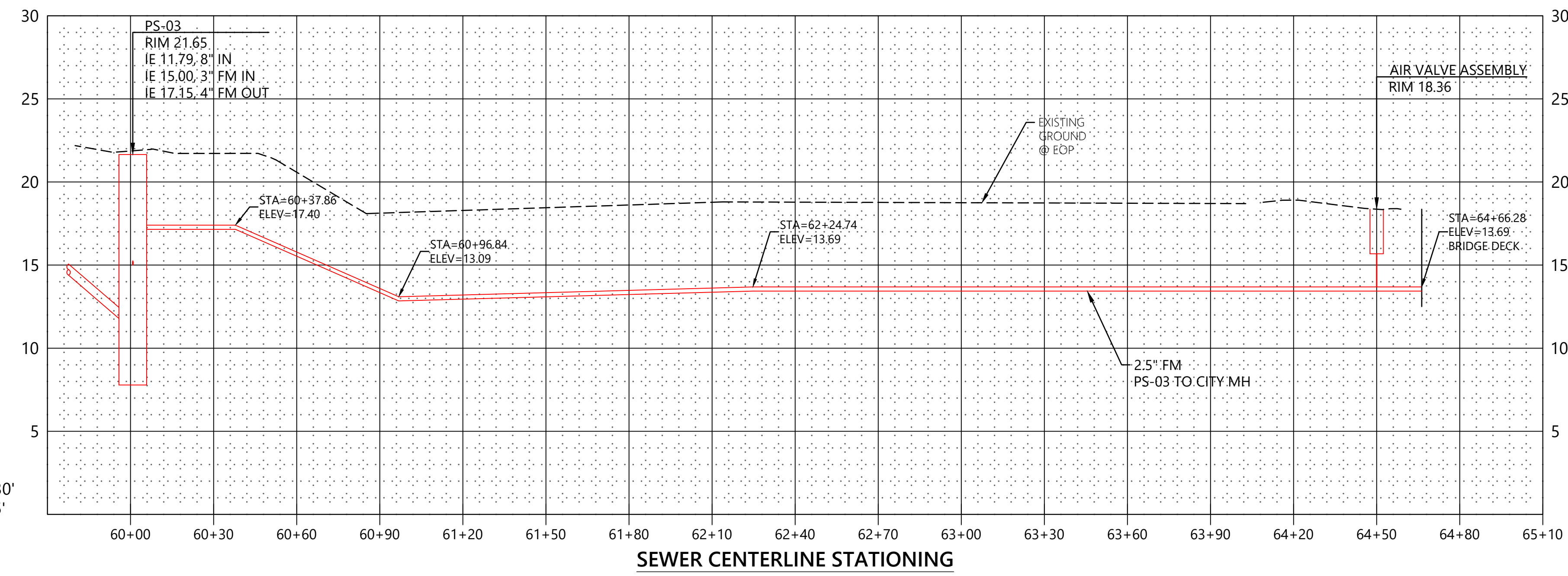
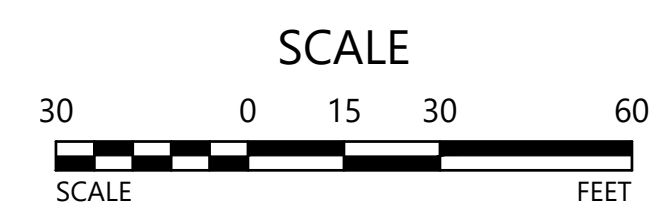
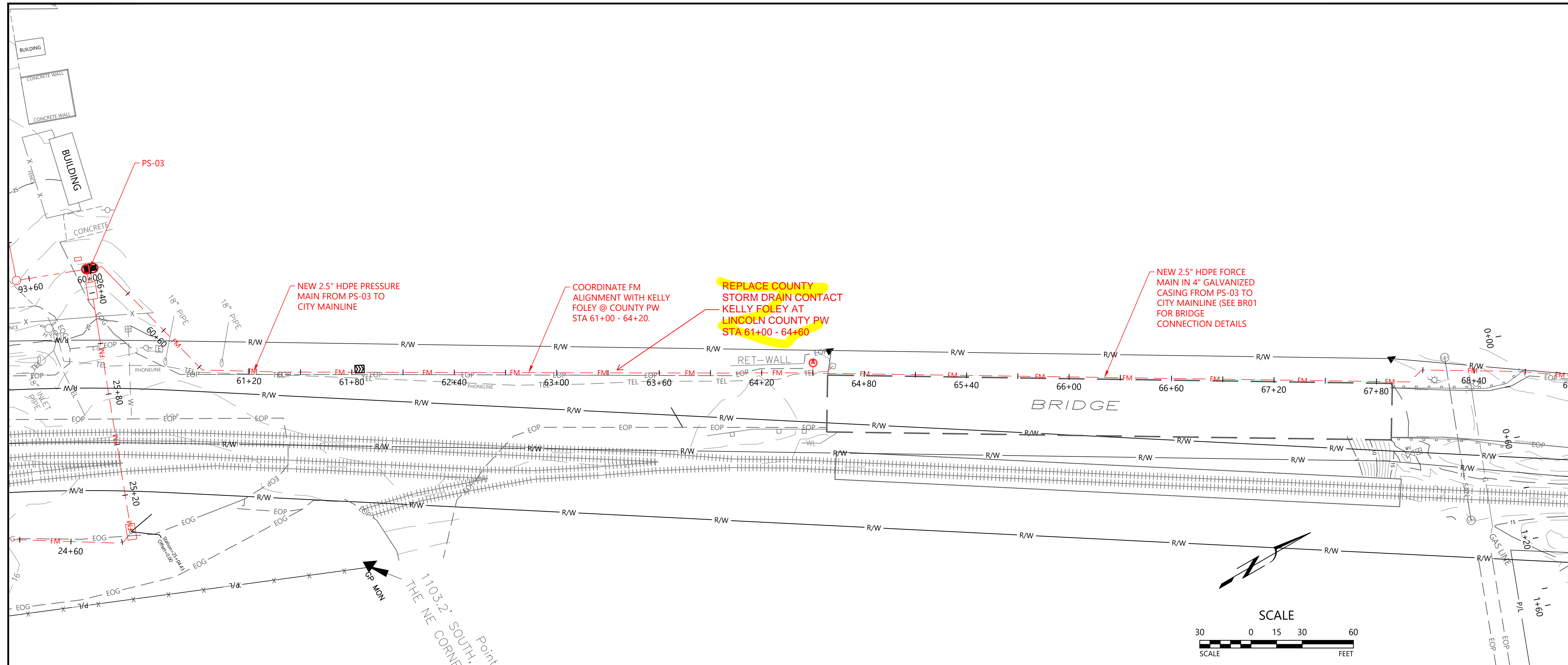


PROFILE:
HORIZ 1"=30'
VERT 1"=5'

<p>SHIPYARD - SANITARY SEWER PROJECT</p>	<p>PORT OF TOLEDO</p>								
<p>PROJECT SITE: 496 NE HWY 20, UNIT 1, TOLEDO, OR 97123</p>									
<p>FORCE MAIN PLAN</p>									
<p>13467 SW SUMMERWOOD DR. TIGARD, OR 97225 (503)-333-3470 WALTER L. COOK P.E.</p>									
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DATE: 7/25/2022									
SCALE: 1" = 30'	PROJ. NO.: XXX								
DRAWN BY: MJJ	CHECKED BY: WLC								
SHEET NO									
<p>S04</p>									
<p>8 OF 20</p>									

BID DRAWINGS -
7/10/23

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PROFILE:
HORIZ 1"=30'
VERT 1"=5'

PROFILE:
HORIZ 1"=30'
VERT 1"=5'

NO.	DATE	REVISIONS

SHIPYARD - SANITARY SEWER PROJECT

PORT OF TOLEDO
PROJECT SITE:
496 NE HWY 20, UNIT 1,
TOLEDO, OR 97123

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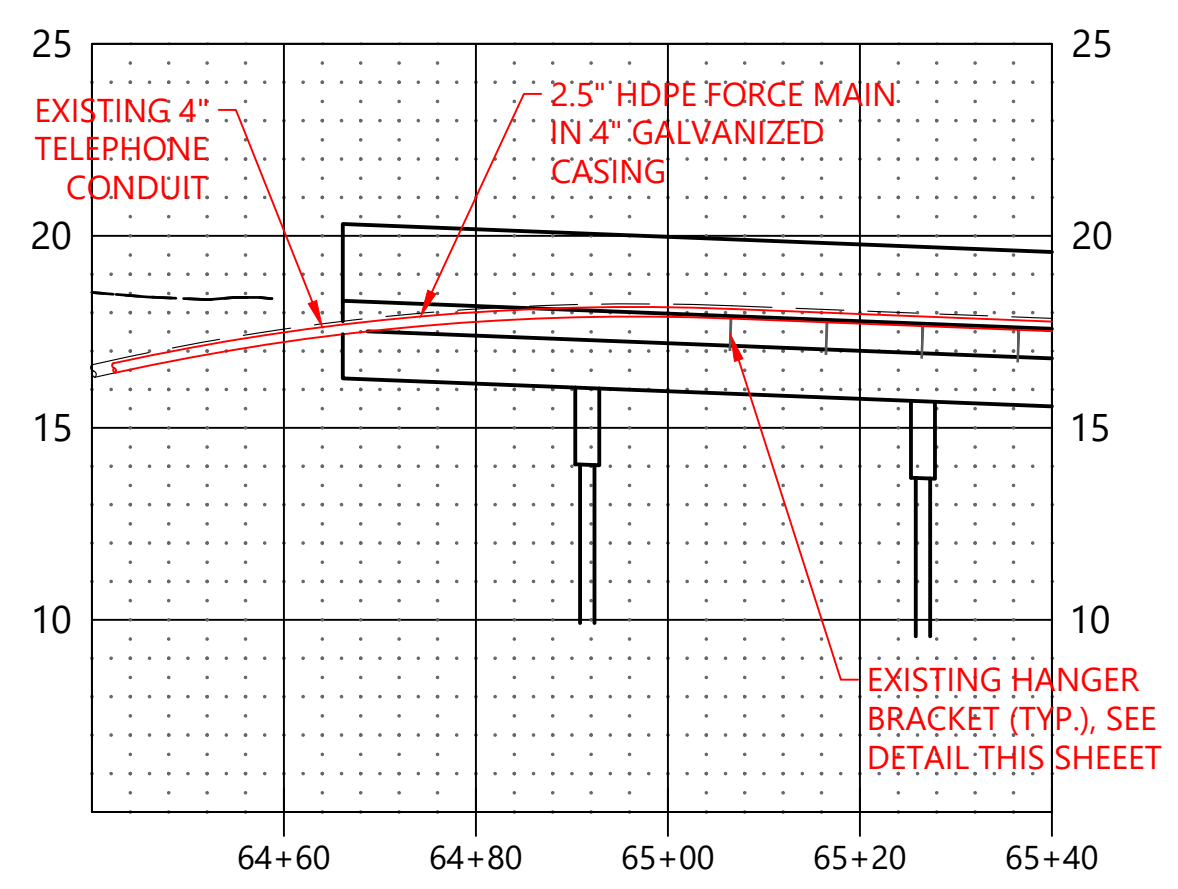
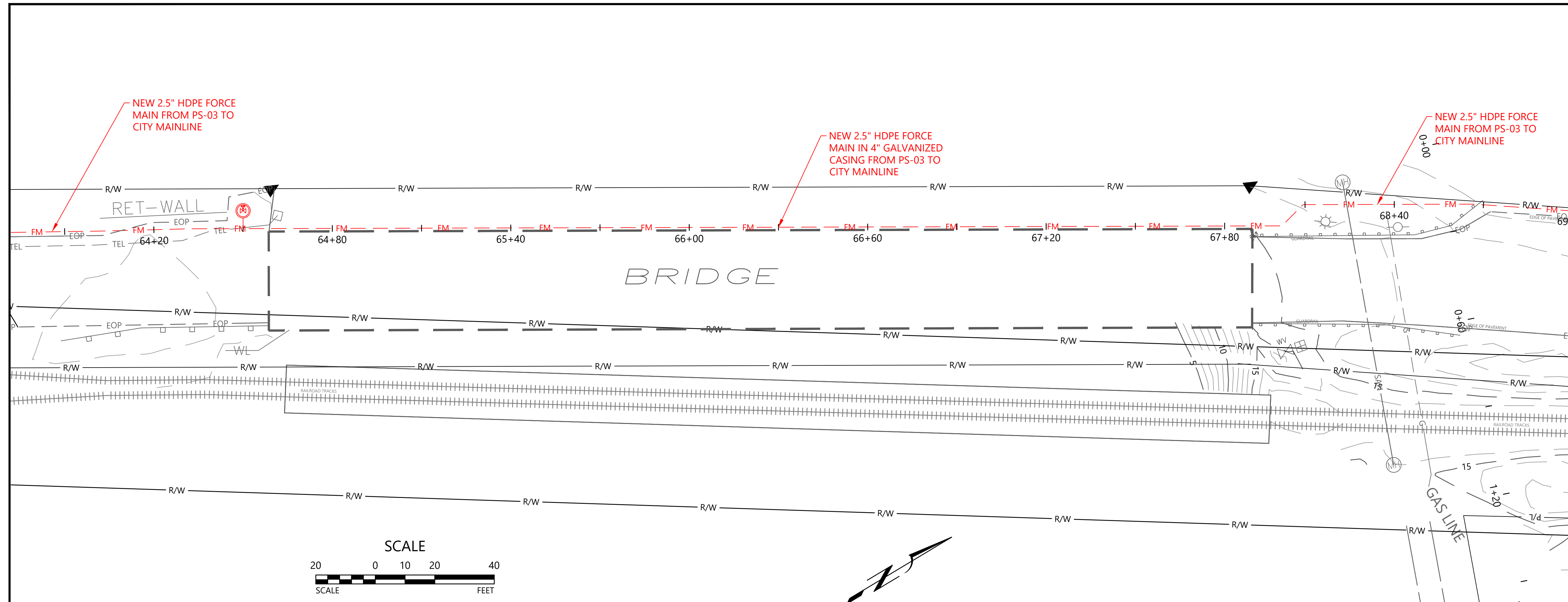
13467 SW SUMMERWOOD DR.
TIGARD, OR 97225
(503)-333-3470
WALTER L. COOK P.E.

DATE: 7/25/2022
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PROJ. NO.: XXX
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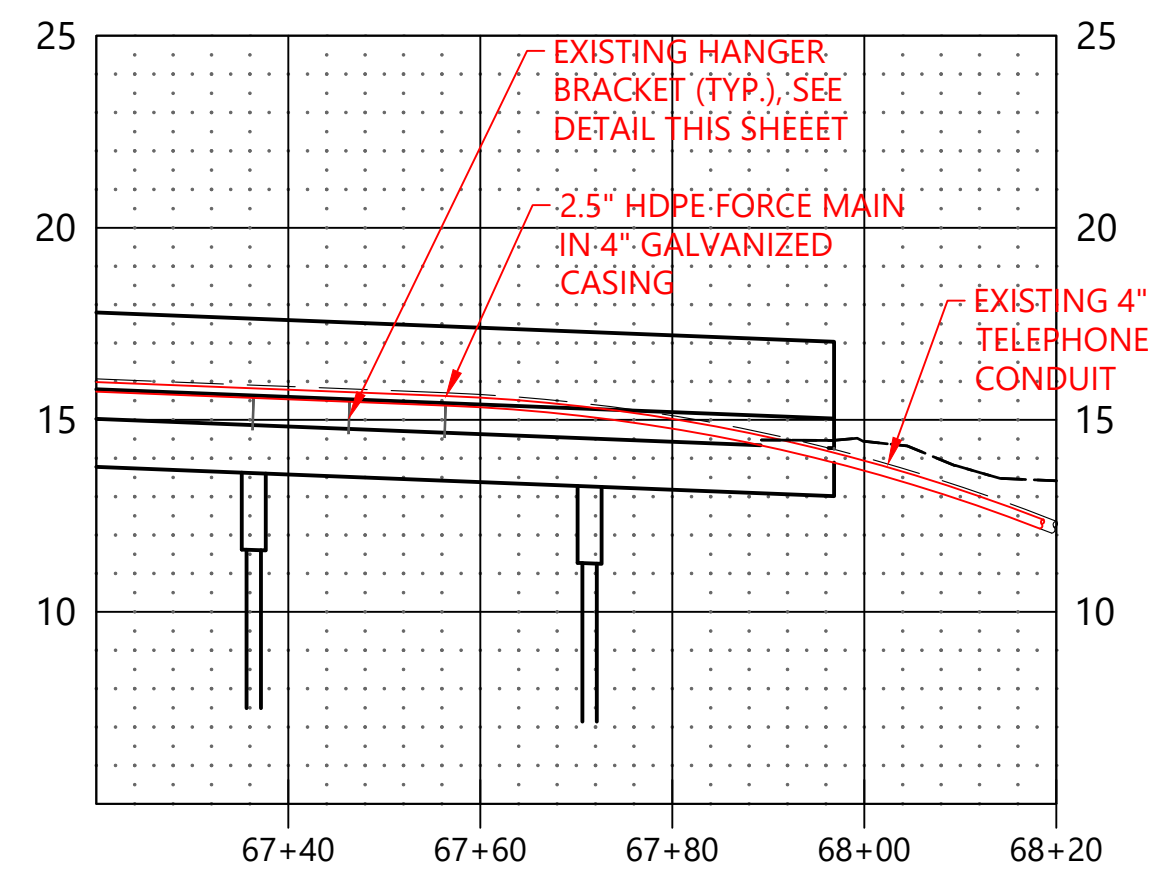
S05
9 OF 20

BID DRAWINGS -
7/10/23

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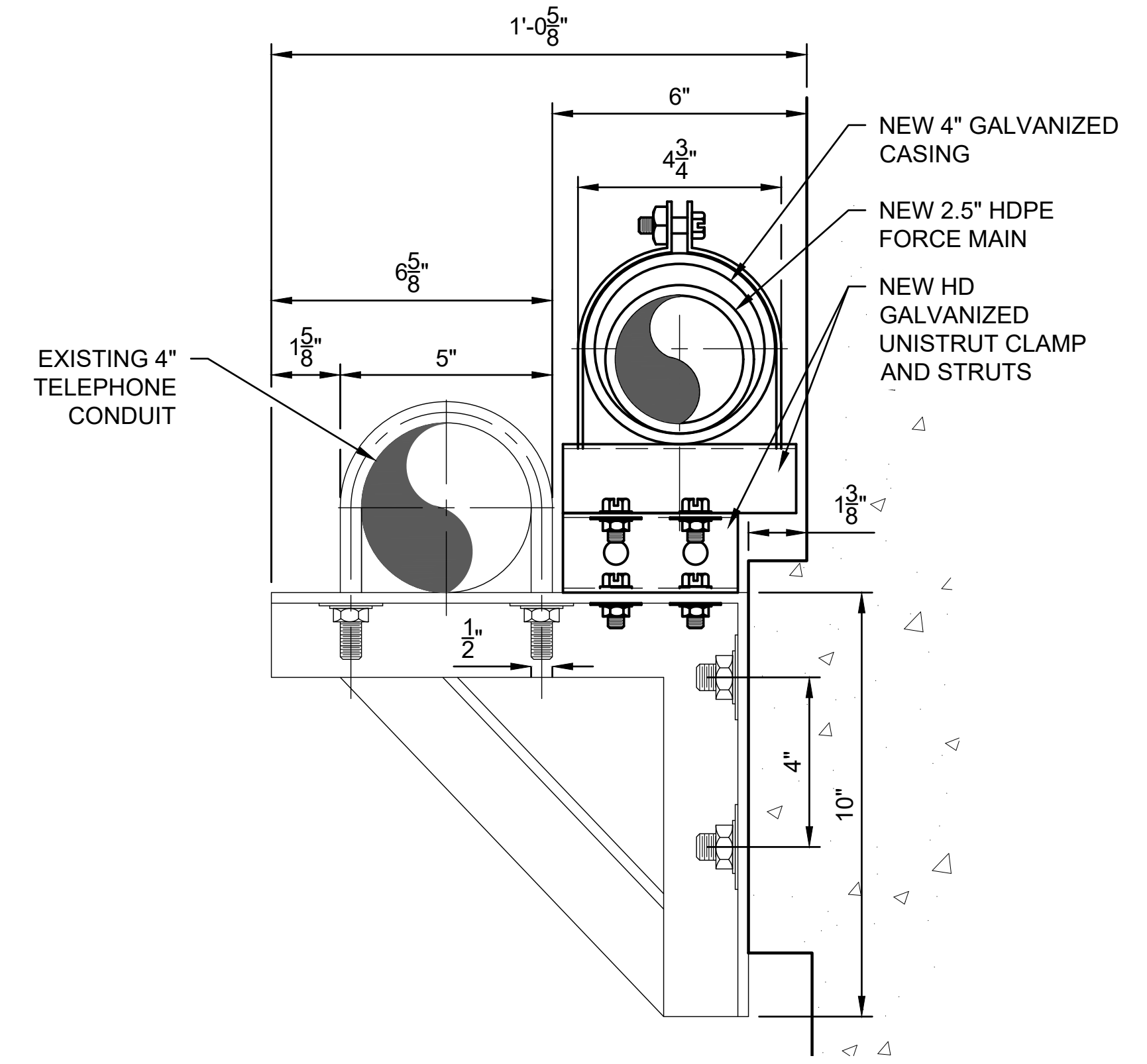
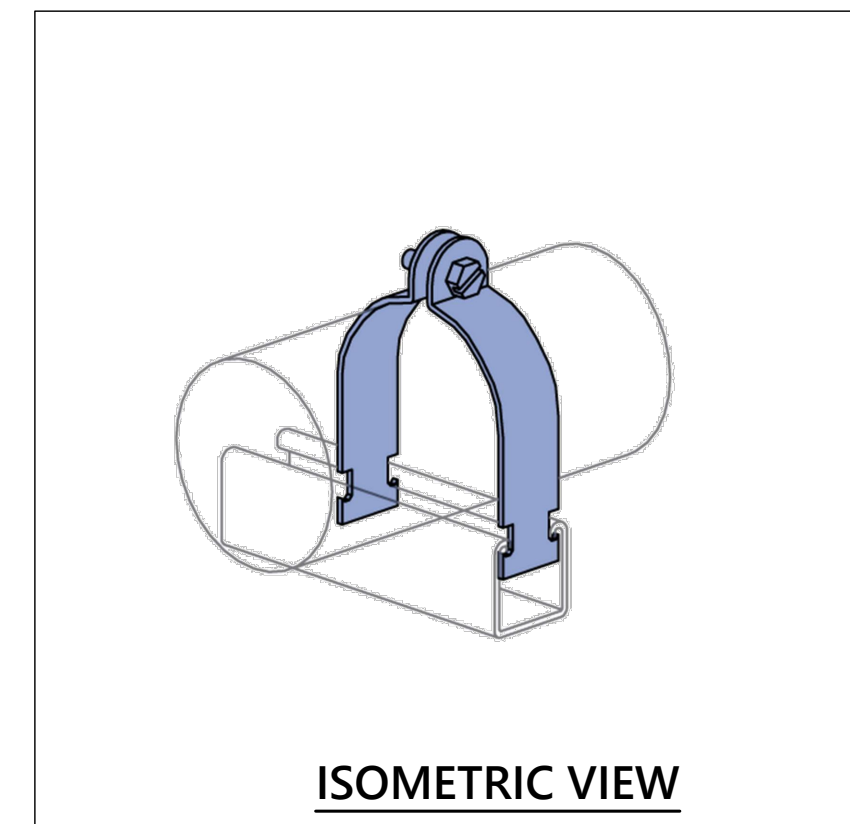
SOUTH END BRIDGE



NORTH END BRIDGE

FORCE MAIN BRIDGE ATTACHMENT NOTES

1. ALL WORK IS TO BE IN CONFORMANCE WITH ODOT, LINCOLN COUNTY AND OTHER APPLICABLE CODES AND STANDARDS.
2. COORDINATE BRIDGE WORK WITH LINCOLN COUNTY BRIDGE ENGINEER, KELLY FOLEY 541-270-3746 AND PORT OF TOLEDO MANAGER BUD SHOEMAKE.
3. SUBMIT WORK PLAN TO LINCOLN COUNTY AND PORT OF TOLEDO.
4. SUBMIT TRAFFIC MANAGEMENT PLAN INCLUDING USE OF FLAGGERS FOR TRAFFIC CONTROL.
5. VERIFY INTEGRITY OF EXISTING HANGERS INCLUDING IMBEDDED ANCHORS.
6. REFERS TO ENGINEER SPECIFICATION AND CALCULATIONS FOR USE OF EXISTING BRIDGE PIPE HANGERS.
7. ALL NEW CONDUIT AND UNISTRUT PARTS TO BE HD GALVANIZED TREATED FOR CORROSION PROTECTION OR AS OTHERWISE REQUIRED BY THE COUNTY AND PORT.
8. PREVENT ALL DEBRIS AND OTHER CONTAMINANTS FROM ENTERING THE YAQUINA RIVER/ DEPOT SLOUGH.
9. OBTAIN ALL ADDITIONAL PERMITS FOR WORKING OVER WATER IF REQUIRED.



BRACKET DETAIL
NTS

BID DRAWINGS -
7/10/23

NO.	DATE	REVISIONS

SHIPYARD - SANITARY SEWER PROJECT

PORT OF TOLEDO
PROJECT SITE:
496 NE HWY 20, UNIT 1,
TOLEDO, OR 97123

BRIDGE CROSSING PLAN

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WALTER L. COOK P.E.

DATE
7/25/2022

SCALE: 1" = 20'

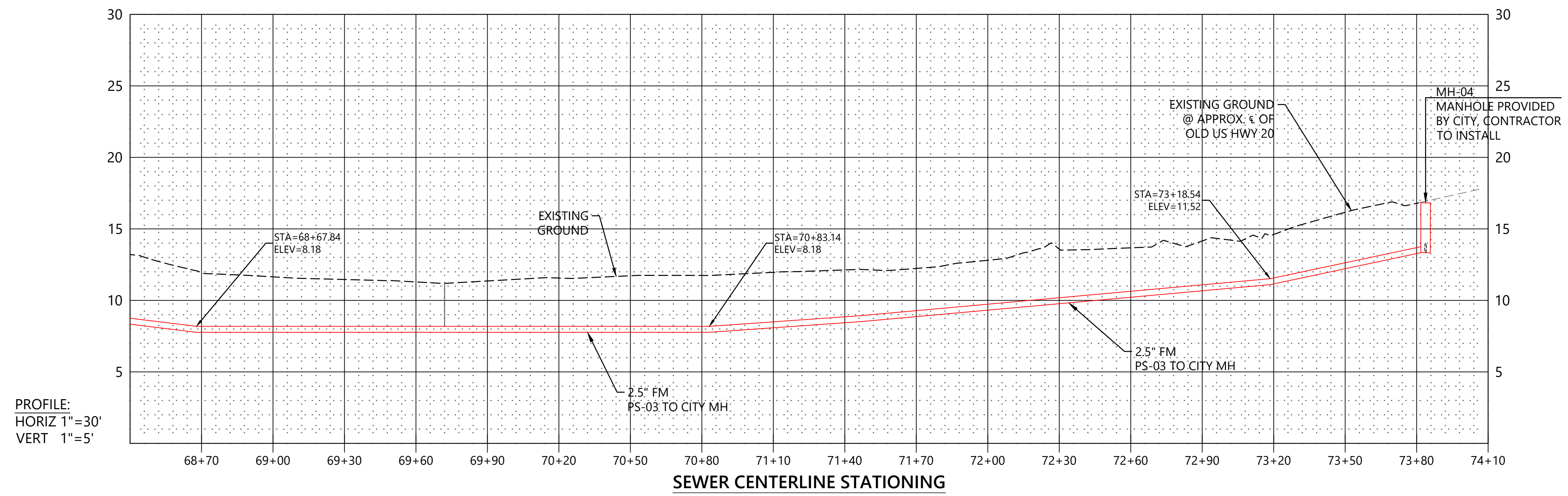
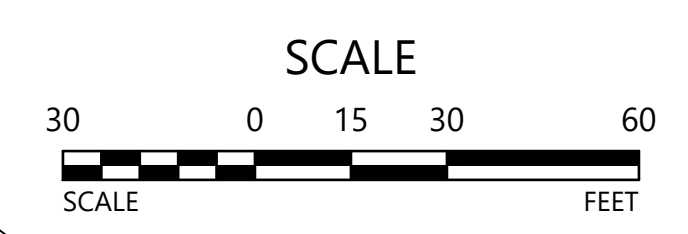
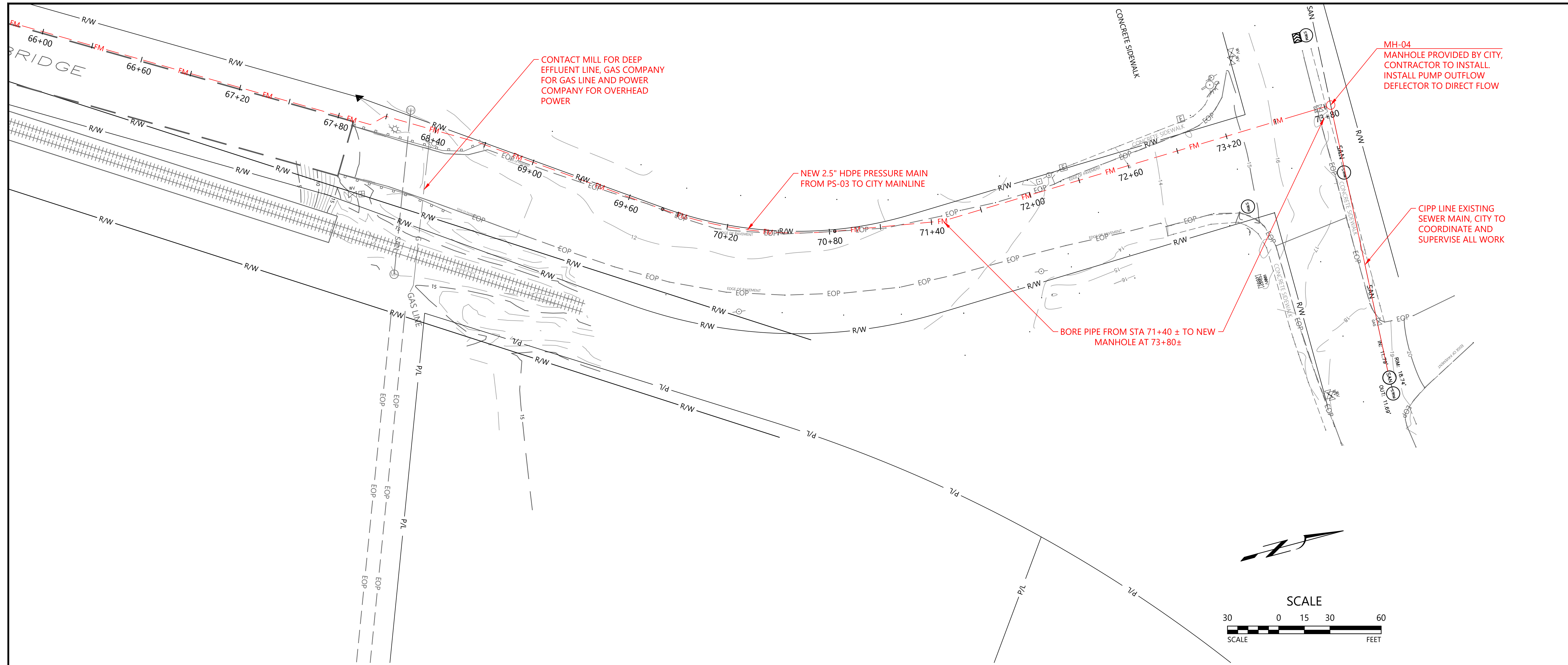
DRAWN BY: MJJ

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PROJ. NO.: XXX

SHEET NO

BR01
11 OF 20



PROFILE:
HORIZ 1"=30'
VERT 1"=5'

MH-04
MANHOLE PROVIDED BY CITY,
CONTRACTOR TO INSTALL
INSTALL PUMP OUTFLOW
DEFLECTOR TO DIRECT FLOW

CIPP LINE EXISTING
SEWER MAIN, CITY TO
COORDINATE AND
SUPERVISE ALL WORK

BORE PIPE FROM STA 71+40 ± TO NEW
MANHOLE AT 73+80 ±

NEW 2.5" HDPE PRESSURE MAIN
FROM PS-03 TO CITY MAINLINE

CONTACT MILL FOR DEEP
EFFLUENT LINE, GAS COMPANY
FOR GAS LINE AND POWER
COMPANY FOR OVERHEAD
POWER

NO.	DATE	REVISIONS

PORT OF TOLEDO
 PROJECT SITE:
 496 NE HWY 20, UNIT 1,
 TOLEDO, OR 97123

**SHIPYARD - SANITARY
SEWER PROJECT**

FORCE MAIN PLAN

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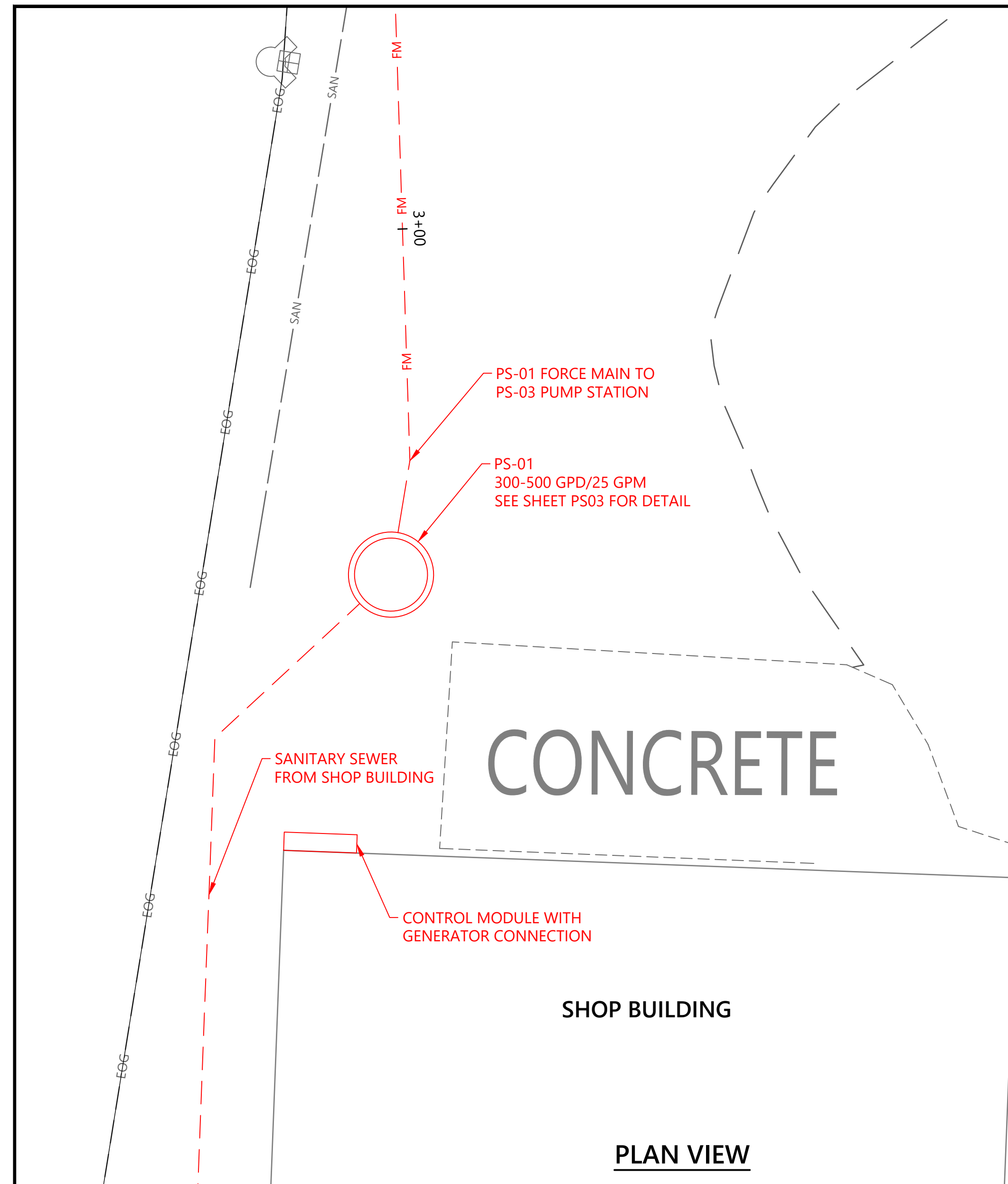
DATE 7/25/2022	PROJ. NO.:
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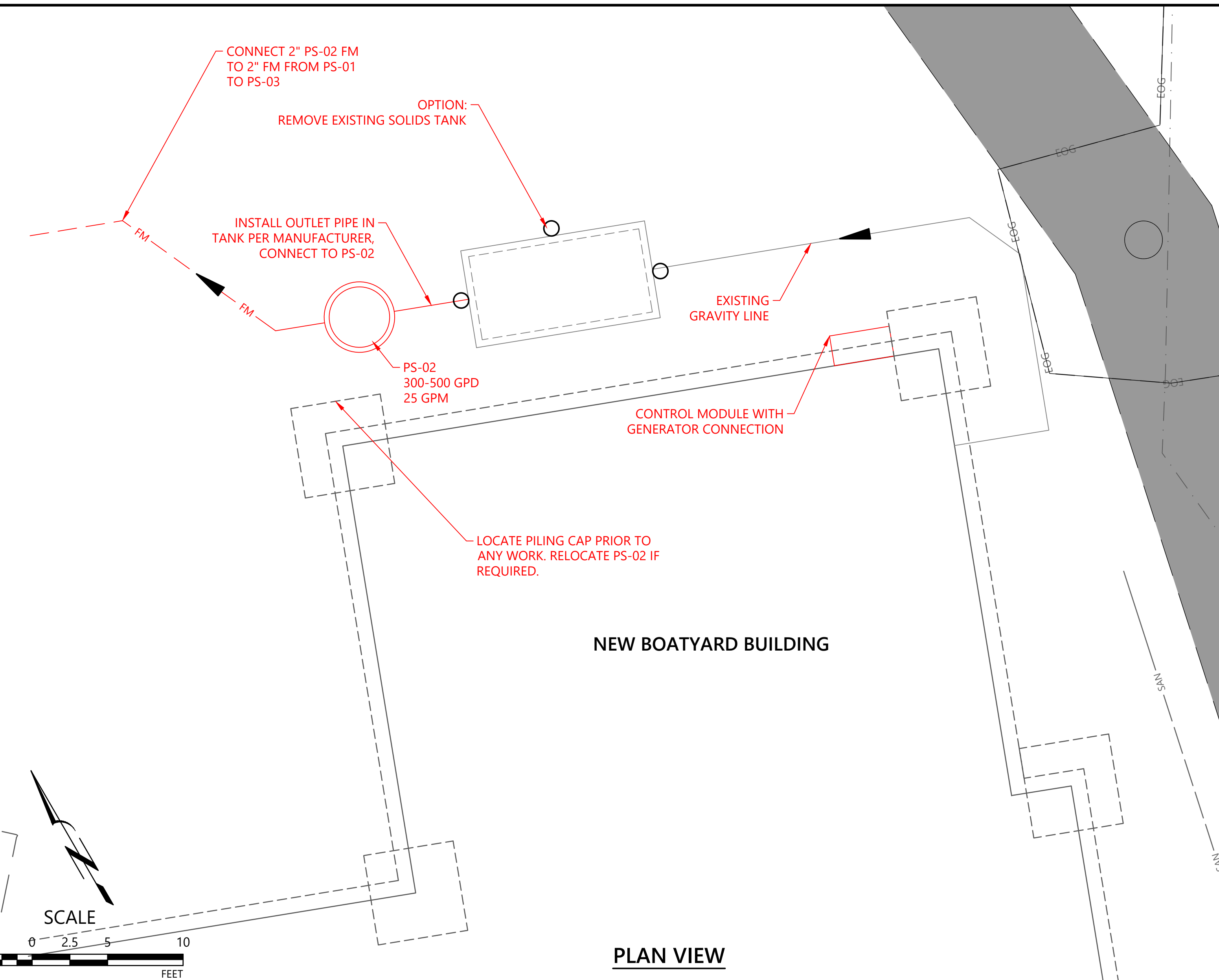
S06
10 OF 20

BID DRAWINGS -
7/10/23

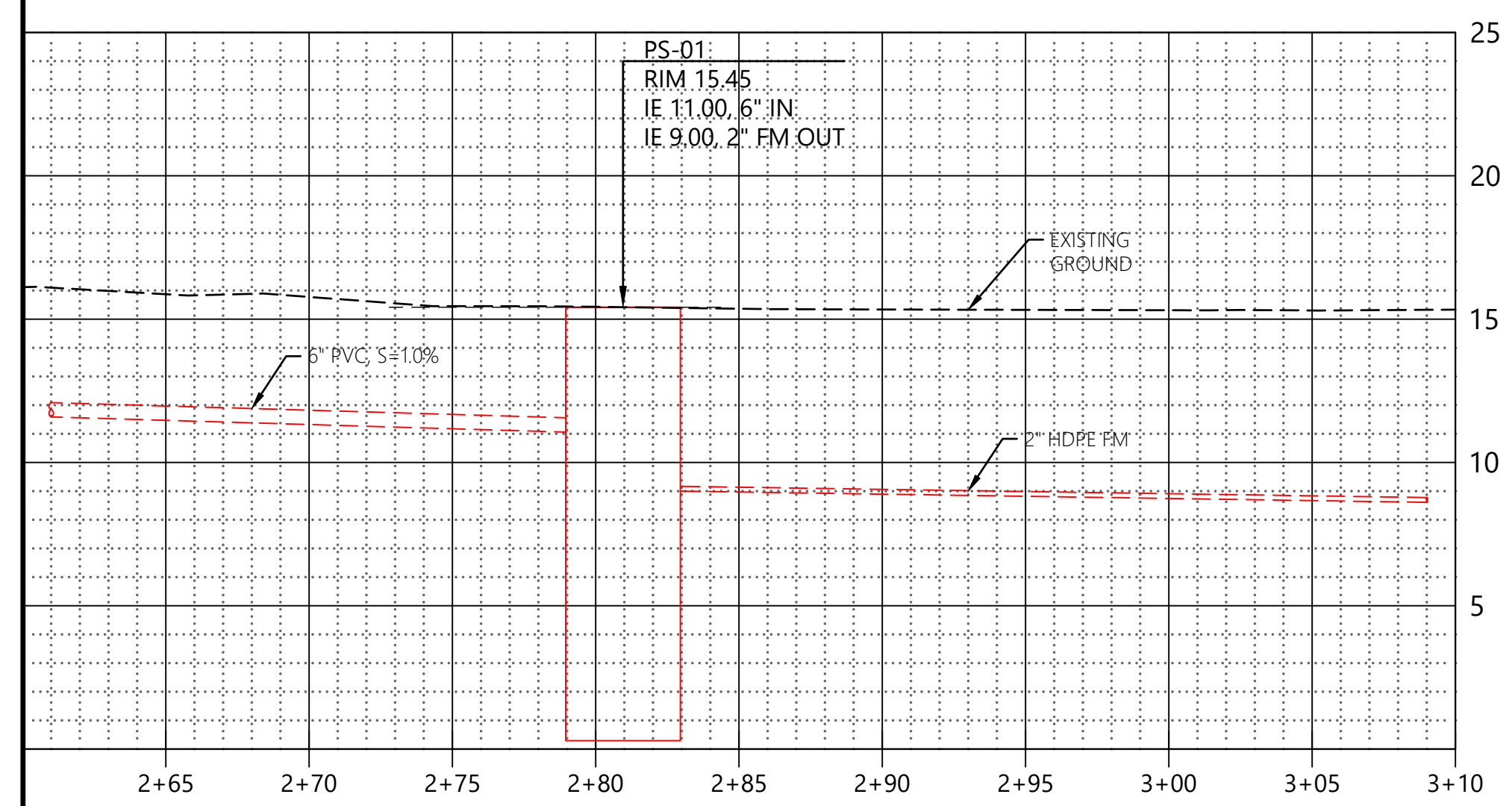
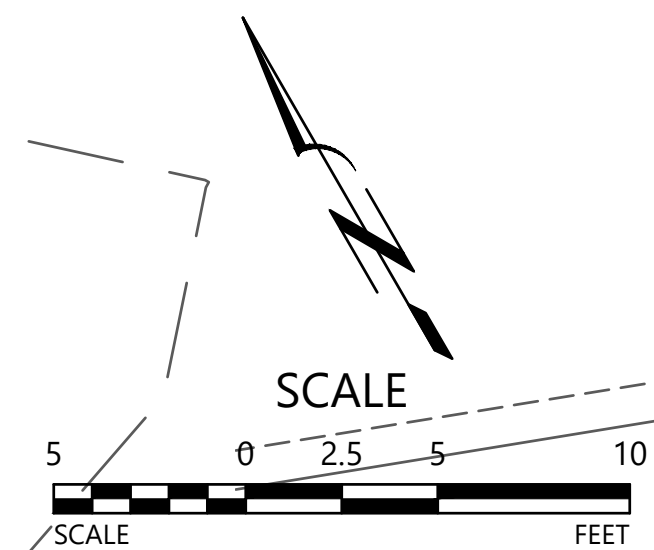
PT_PP1.dwg



PLAN VIEW

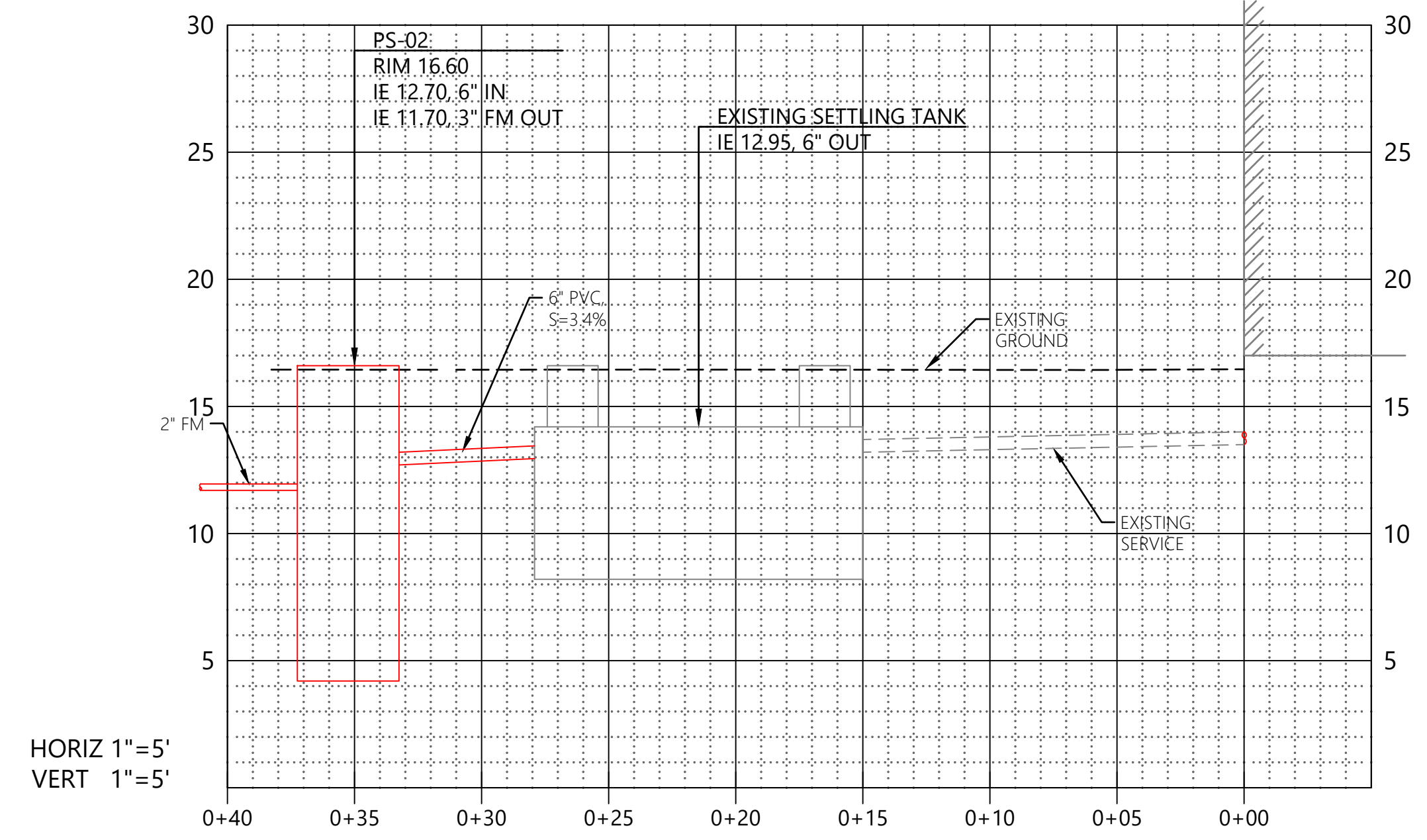


PLAN VIEW



SEWER CENTERLINE STATIONING

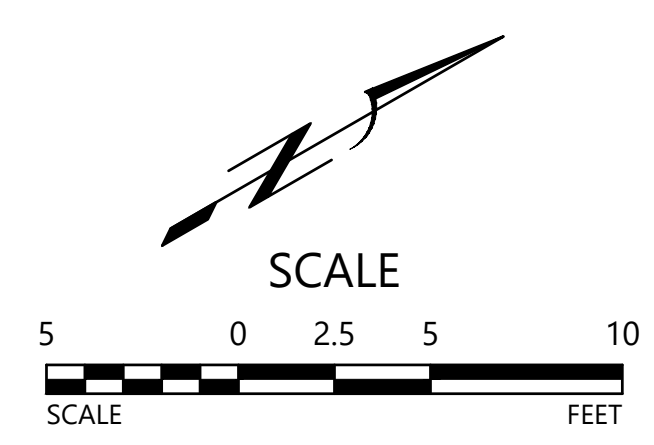
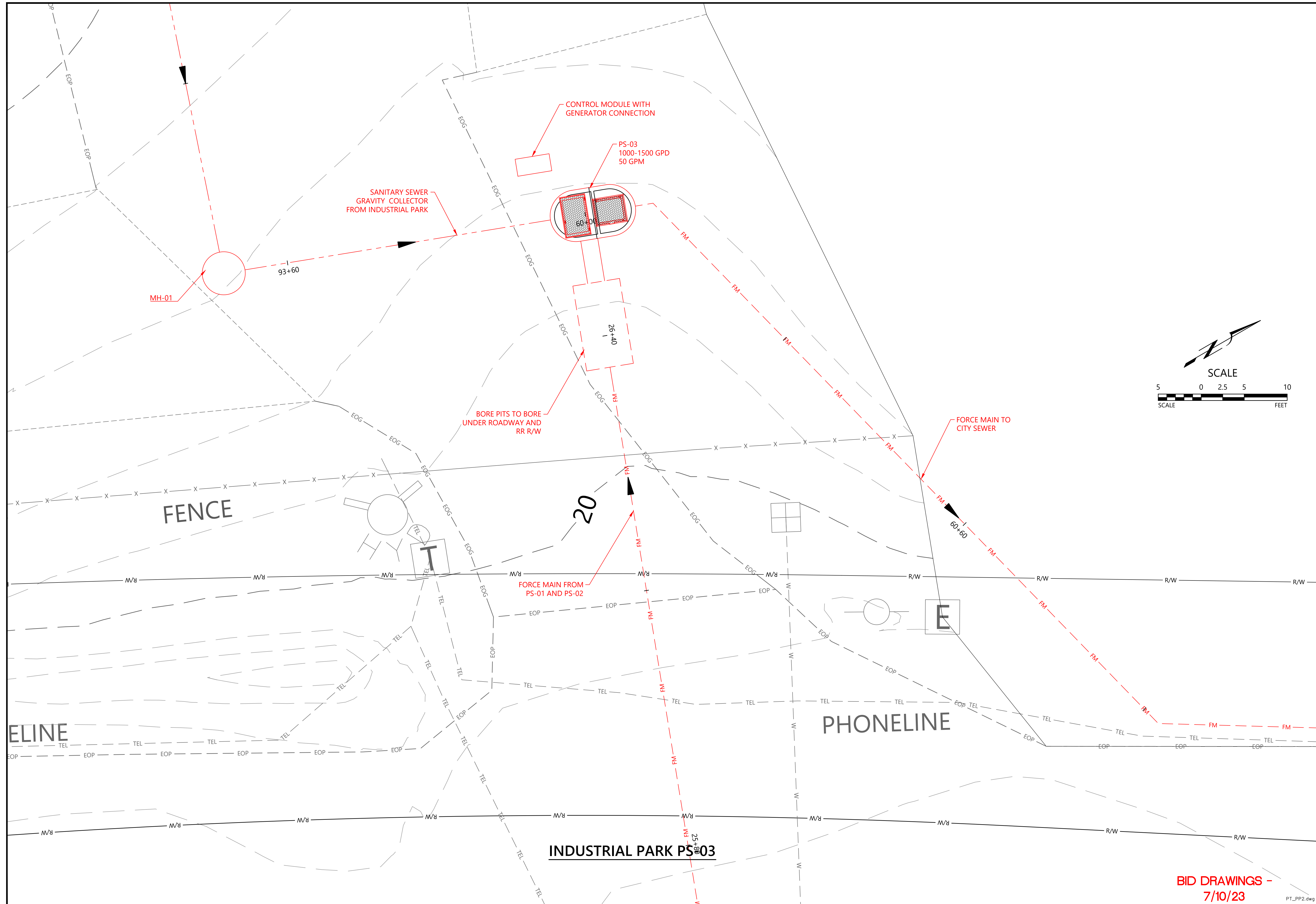
SOUTH BOATYARD PS-01



ELEVATION VIEW
NORTH BOATYARD PS-02

BID DRAWINGS -
7/10/23

PORT OF TOLEDO PROJECT SITE: 496 NE HWY 20, UNIT 1, TOLEDO, OR 97123		NO. _____ DATE _____ REVISIONS _____
SHIPYARD - SANITARY SEWER PROJECT SITE LAYOUT PS-01 AND PS-02		
Water Environment Resources Inc. simple solutions... excellent results 13467 SW SUMMERWOOD DR. TIGARD, OR 97225 (503)-333-3470 WALTER L. COOK P.E.		
DATE: 7/25/2022 SCALE: 1" = 5' DRAWN BY: MJJ SHEET NO: _____		PROJ. NO.: XXX CHECKED BY: WLC
PS01 12 OF 20		



NO.	DATE	REVISIONS

SHIPYARD - SANITARY SEWER PROJECT

PORT OF TOLEDO
 PROJECT SITE:
 496 NE HWY 20, UNIT 1,
 TOLEDO, OR 97123



SITE LAYOUT PS-03

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 TIGARD, OR 97225
 (503)-333-3470
 WALTER L. COOK P.E.

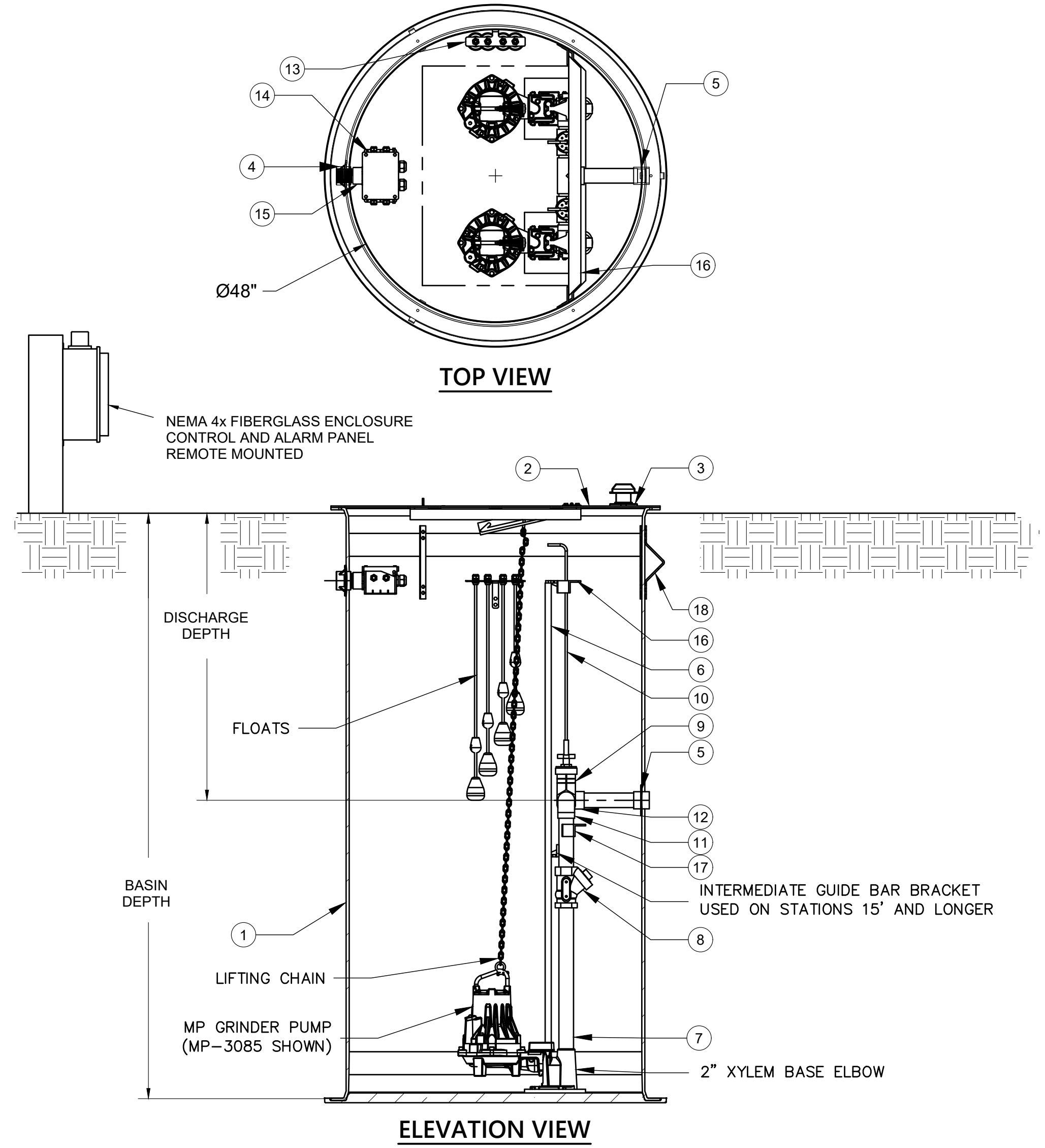
DATE 7/25/2022	PROJ. NO.:
SCALE: 1" = 5'	XXX
DRAWN BY: MJJ	CHECKED BY: WLC

SHEET NO
PS02
13 OF 20

BID DRAWINGS - 7/10/23

PT_PP2.dwg

18	I.E. STEEL MINI LUG		
17	ALUMINUM SHIPPING BRACE FOR 48" BASIN		
16	UPPER ALUMINUM GUIDE BAR BRACE		
15	2" SCH80 PVC PIPE		
14	3/4" x 5/8" x 4" WATER-TIGHT J-BOX, (3) 1/2" AND (1) 1" GRIPS		
13	SST FLOAT BRACKET W/(4) CORD GRIPS		
12	2" SCH80 PVC TEE		
11	2" SCH80 PVC 90° ELBOW		
10	304 SST VALVE EXTENSION HANDLE		
9	2" SCH80 PVC GATE VALVE		
8	2" CAST IRON BALL CHECK VALVE		
7	2" SCH80 PVC PIPE		
6	3/4" 304 SST GUIDE BAR		
5	2" SST THREADED NPT COUPLING - DISCHARGE		
4	2" NPT BOLT-ON COMPOSITE FG COUPLING - ELECTRICAL		1
3	2" PLASTIC THREADED FLANGE VENT		2
2	1/4" ALUMINUM HATCH COVER		1
1	48" FIBERGLASS BASIN W/ FG ANTI-FLOAT		1
ITEM	DESCRIPTION	PART NUMBER	QTY

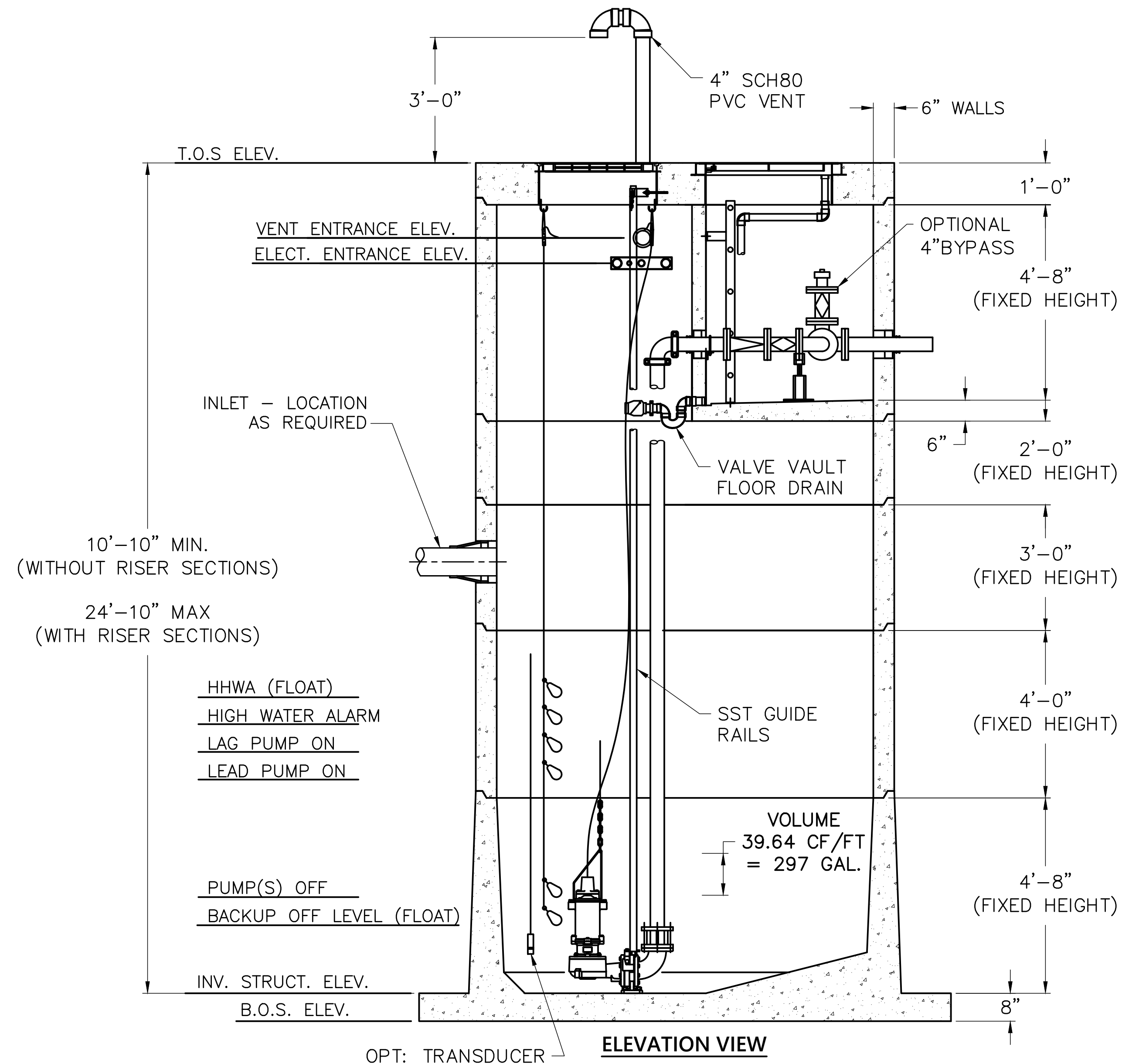
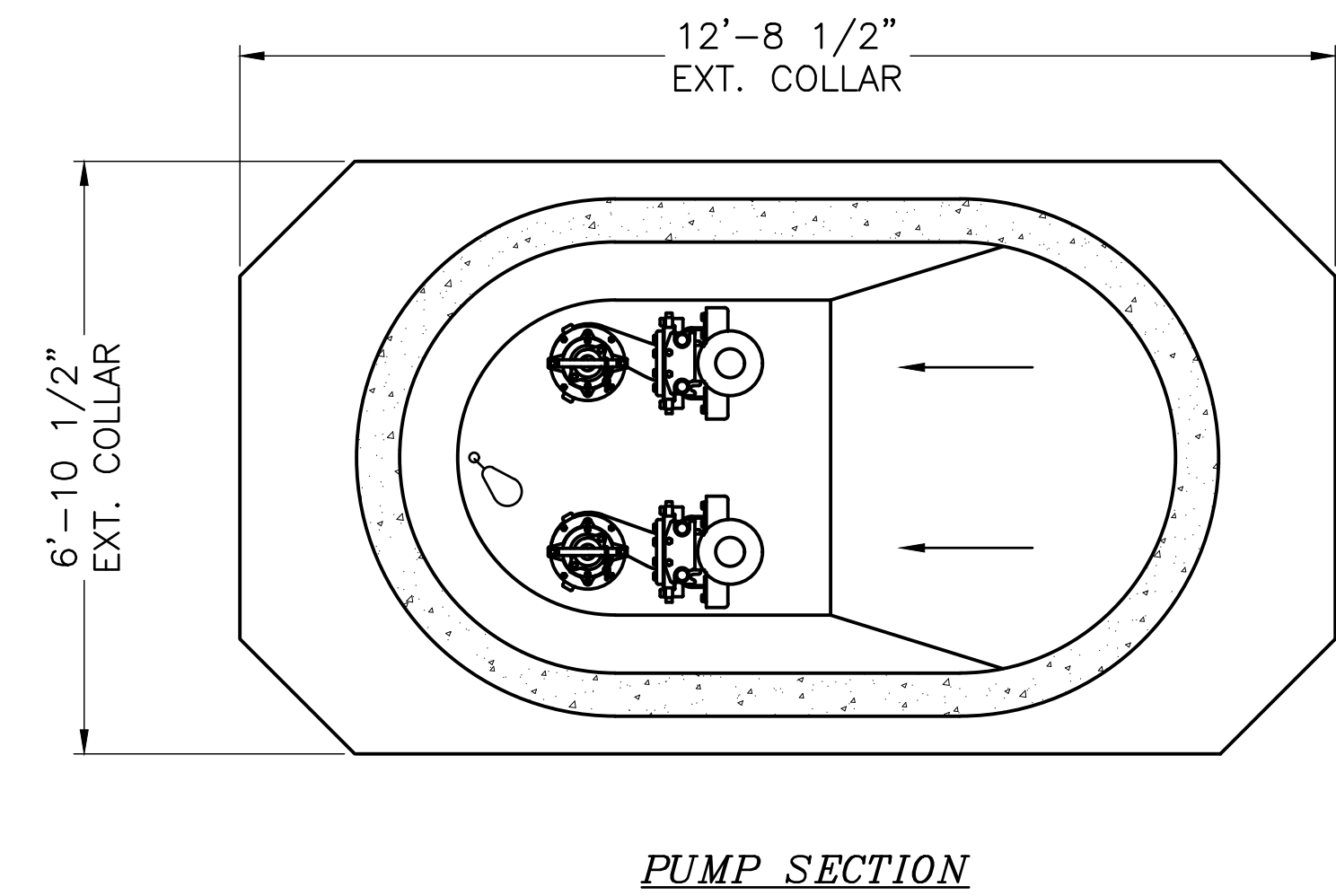
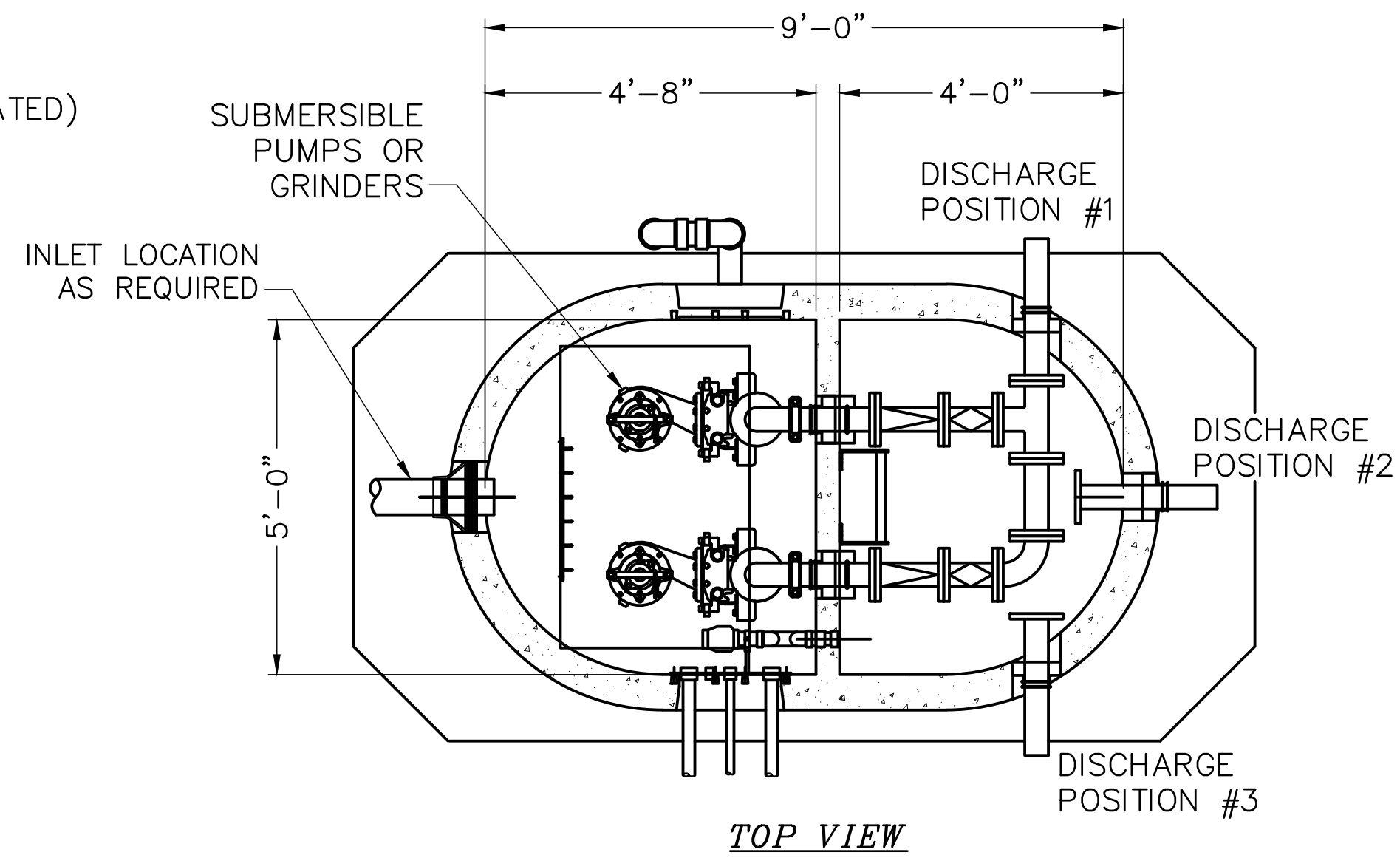
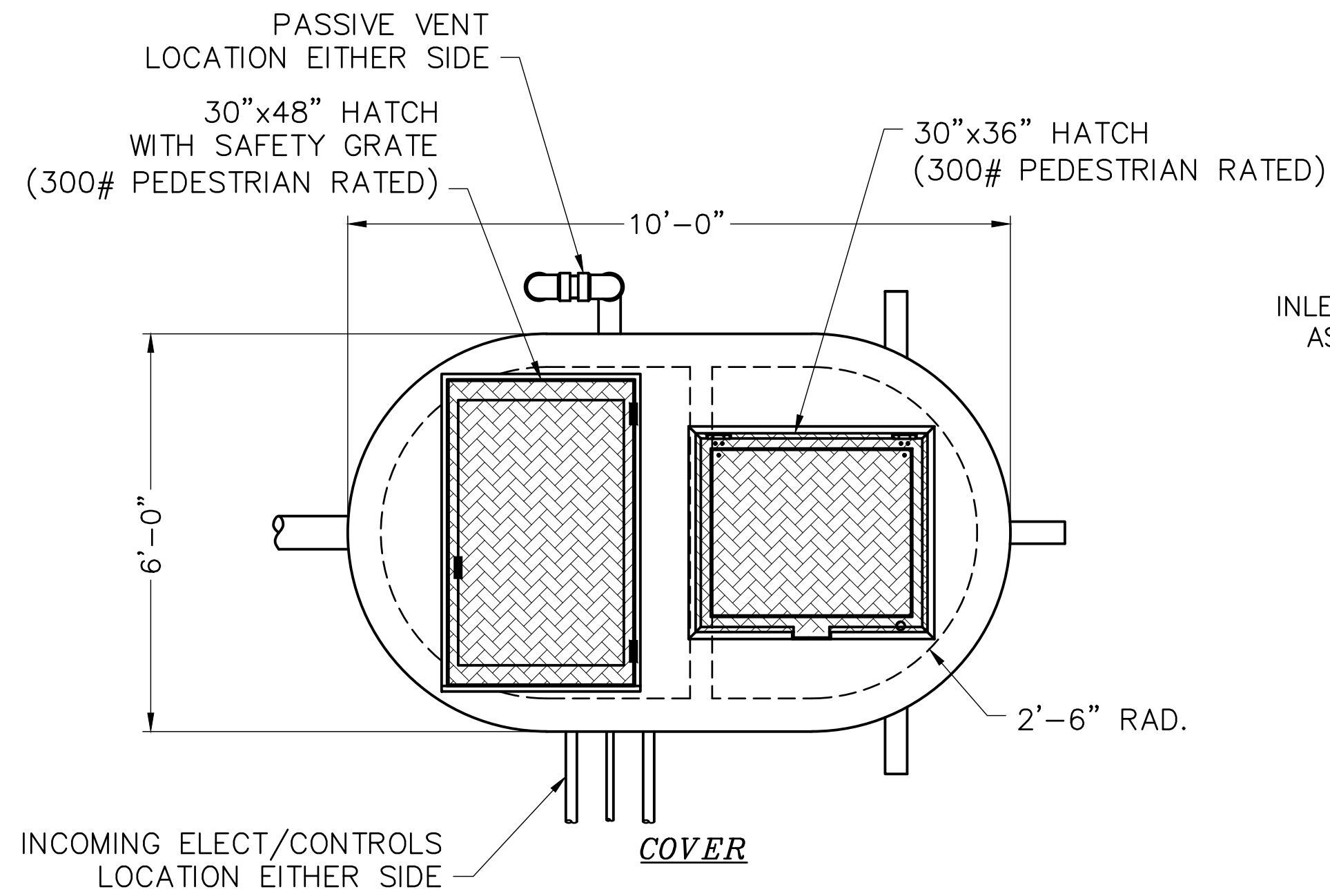


**TYPICAL PUMP STATION PS-01 AND PS-02
DETAIL**

**BID DRAWINGS -
7/10/23**

PT_PS01.dwg

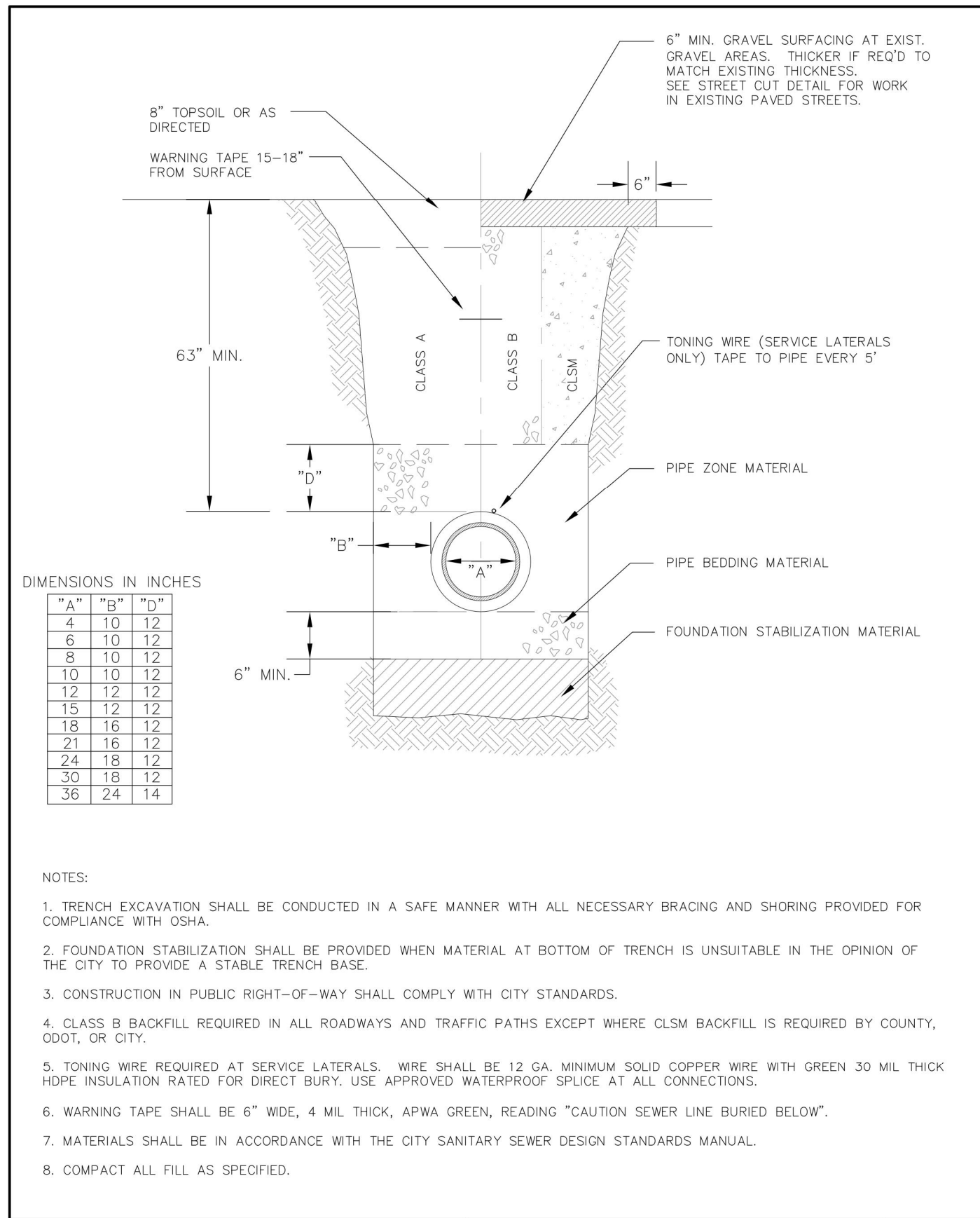
PORT OF TOLEDO PROJECT SITE: 496 NE HWY 20, UNIT 1, TOLEDO, OR 97123		SHIPYARD - SANITARY SEWER PROJECT	NO. _____ DATE _____	REVISIONS _____ _____ _____
Water Environment Resources Inc. <i>simple solutions... excellent results</i>		SOLIDS TANK AND PUMP STATION DETAILS		
13467 SW SUMMERWOOD DR. TIGARD, OR 97225 (503)-333-3470 WALTER L. COOK P.E.		DATE: 7/25/2022 SCALE: 1/2" = 1'-0" DRAWN BY: MJJ CHECKED BY: WLC SHEET NO:		
PS03 14 OF 20				



REF:
 6'φ=28.27 CF/FT
 8'φ=50.26 CF/FT
 RC509=39.64 CF/FT
 297 Gal/Vert. FT

OPT: TRANSDUCER
ONELIFT™ PUMP STATION PS-03 DETAIL

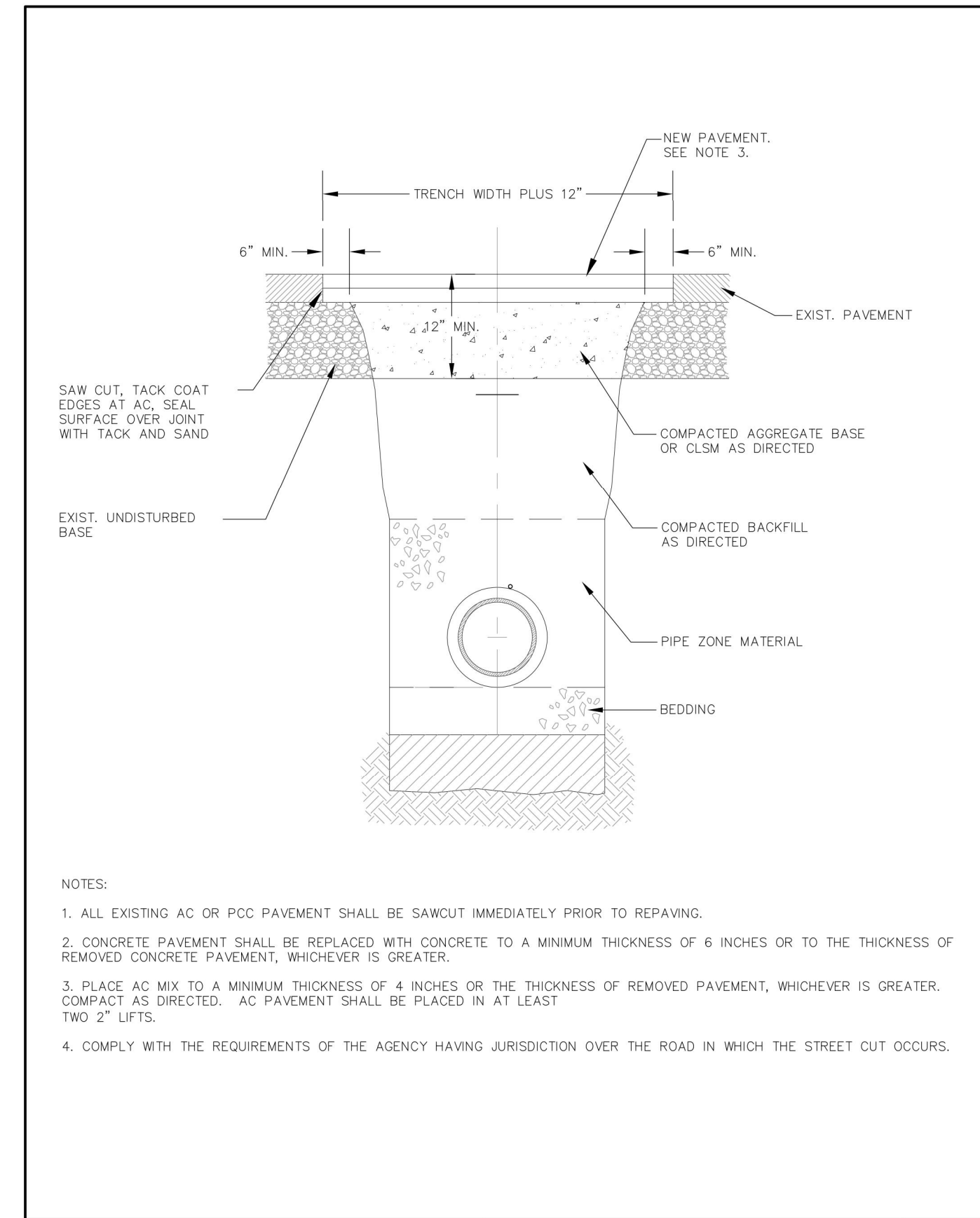
PORT OF TOLEDO PROJECT SITE: 496 NE HWY 20, UNIT 1, TOLEDO, OR 97123	SHIPYARD - SANITARY SEWER PROJECT
 20	REVISIONS DATE NO.
 Water Environment Resources Inc. simple solutions... excellent results	
13467 SW SUMMERWOOD DR. TIGARD, OR 97225 (503)-333-3470 WALTER L. COOK P.E.	
DATE: 7/25/2022 SCALE: 1/2" = 1'-0" DRAWN BY: MJJ SHEET NO:	
PROJ. NO.: PROJ.# CHECKED BY: WLC	
PS04 15 OF 20	



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**TYPICAL TRENCH DETAIL
SANITARY SEWER**

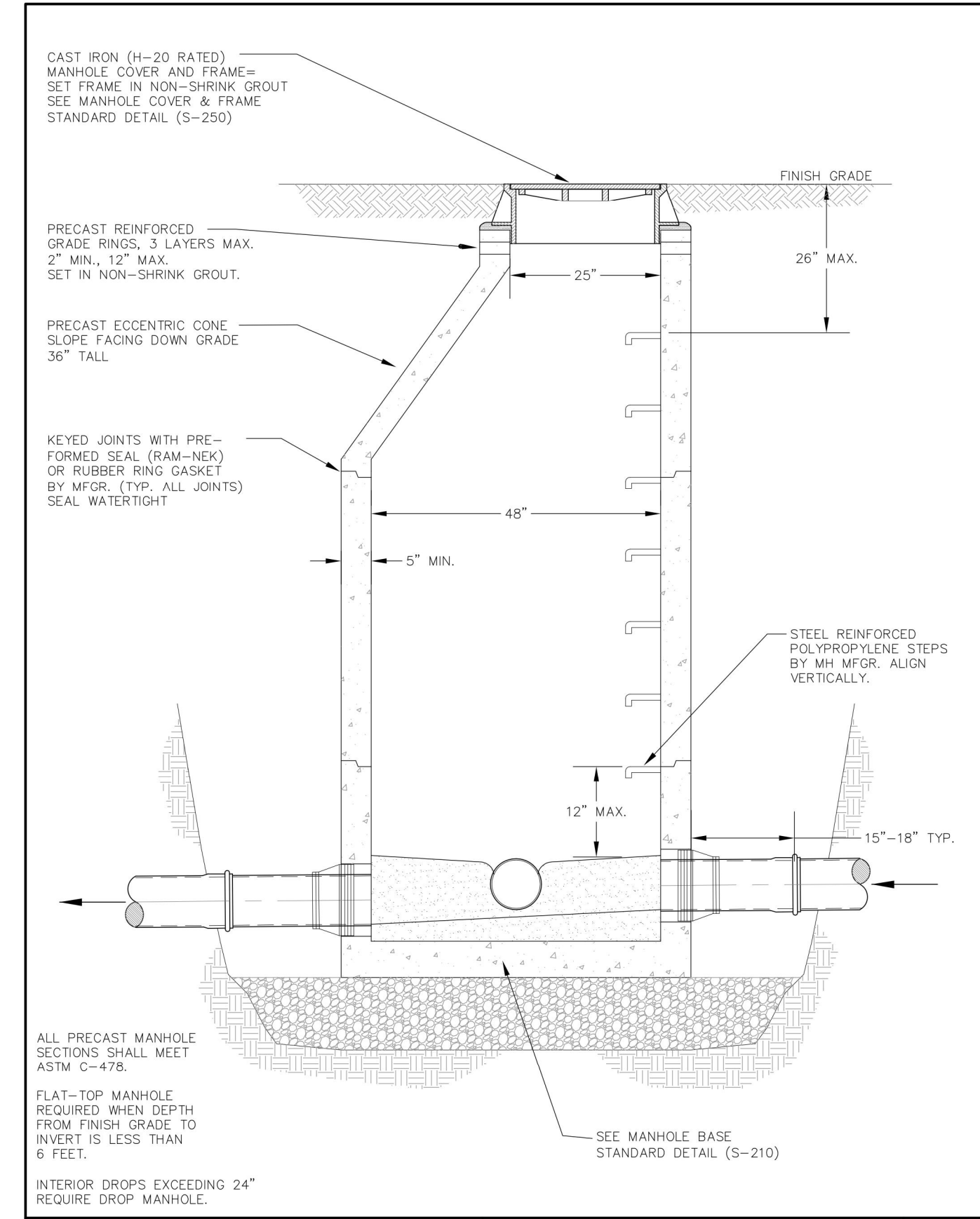
DETAIL NO. **S-100**
04/30/2009



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**STREET CUT
STANDARD DETAIL**

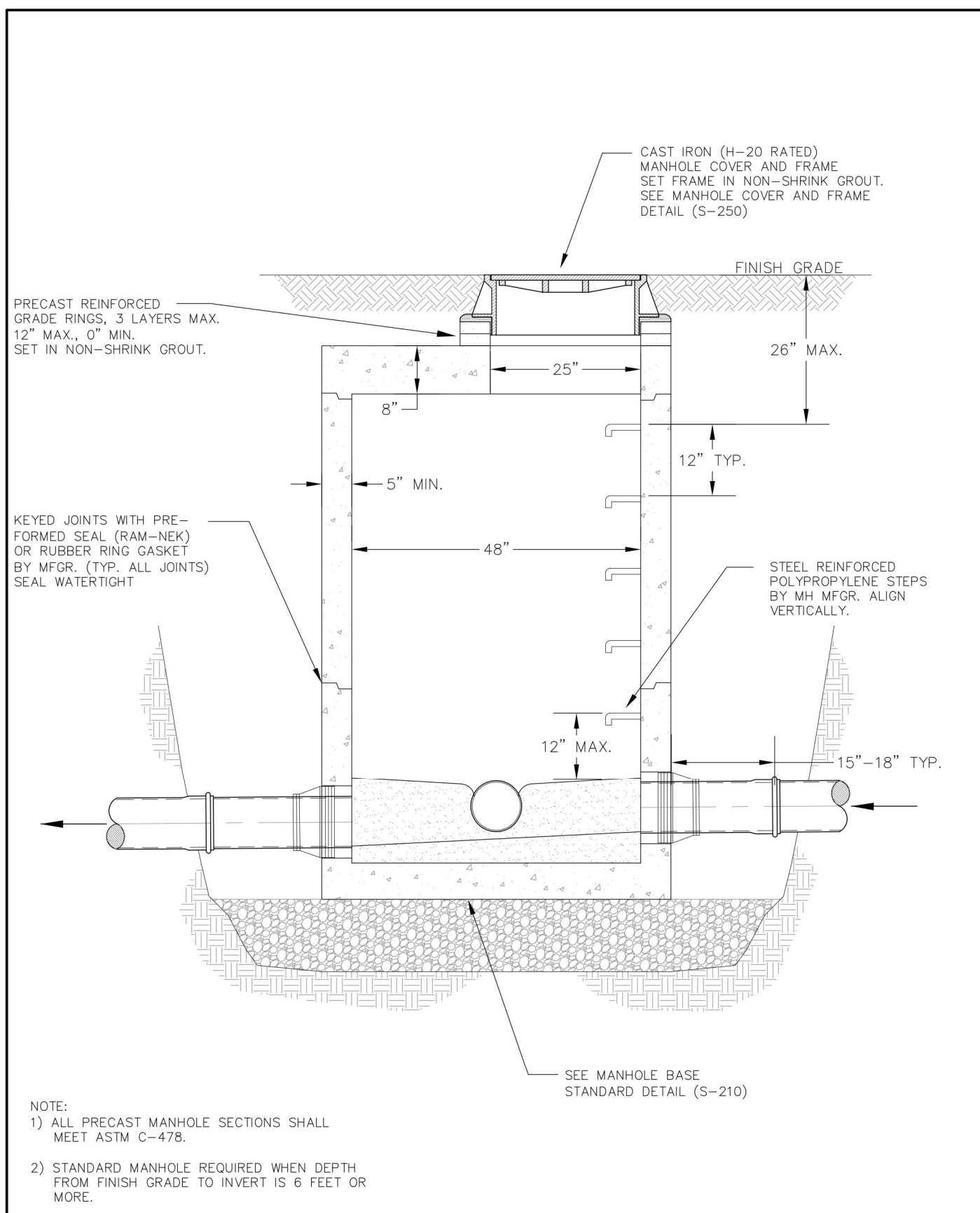
DETAIL NO. **S-105**
04/30/2009



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**STANDARD MANHOLE
PIPES LESS THAN 24" DIAM.**

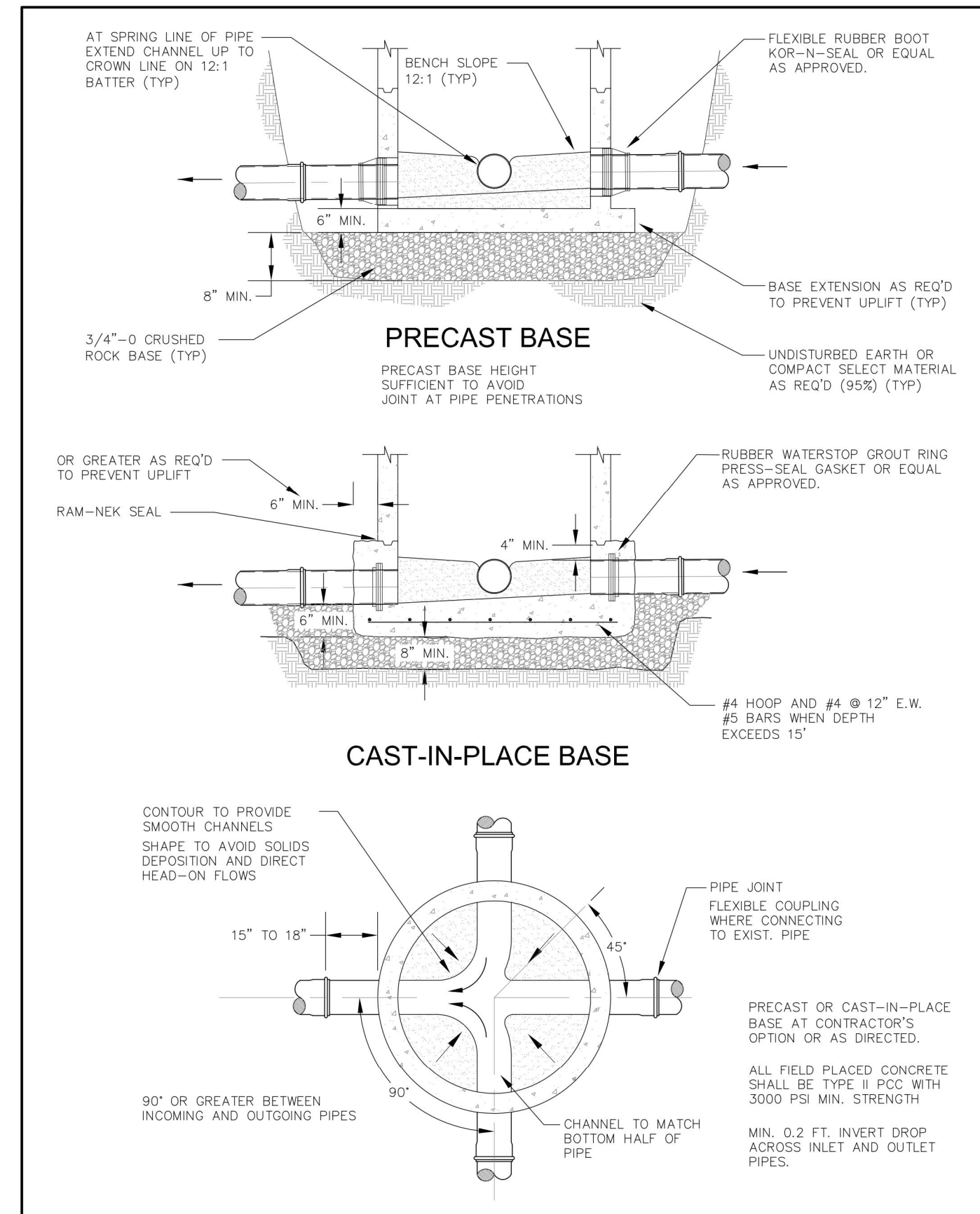
DETAIL NO. **S-200**
04/30/2009



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**FLAT-TOP MANHOLE
PIPES LESS THAN 24" DIAM.**

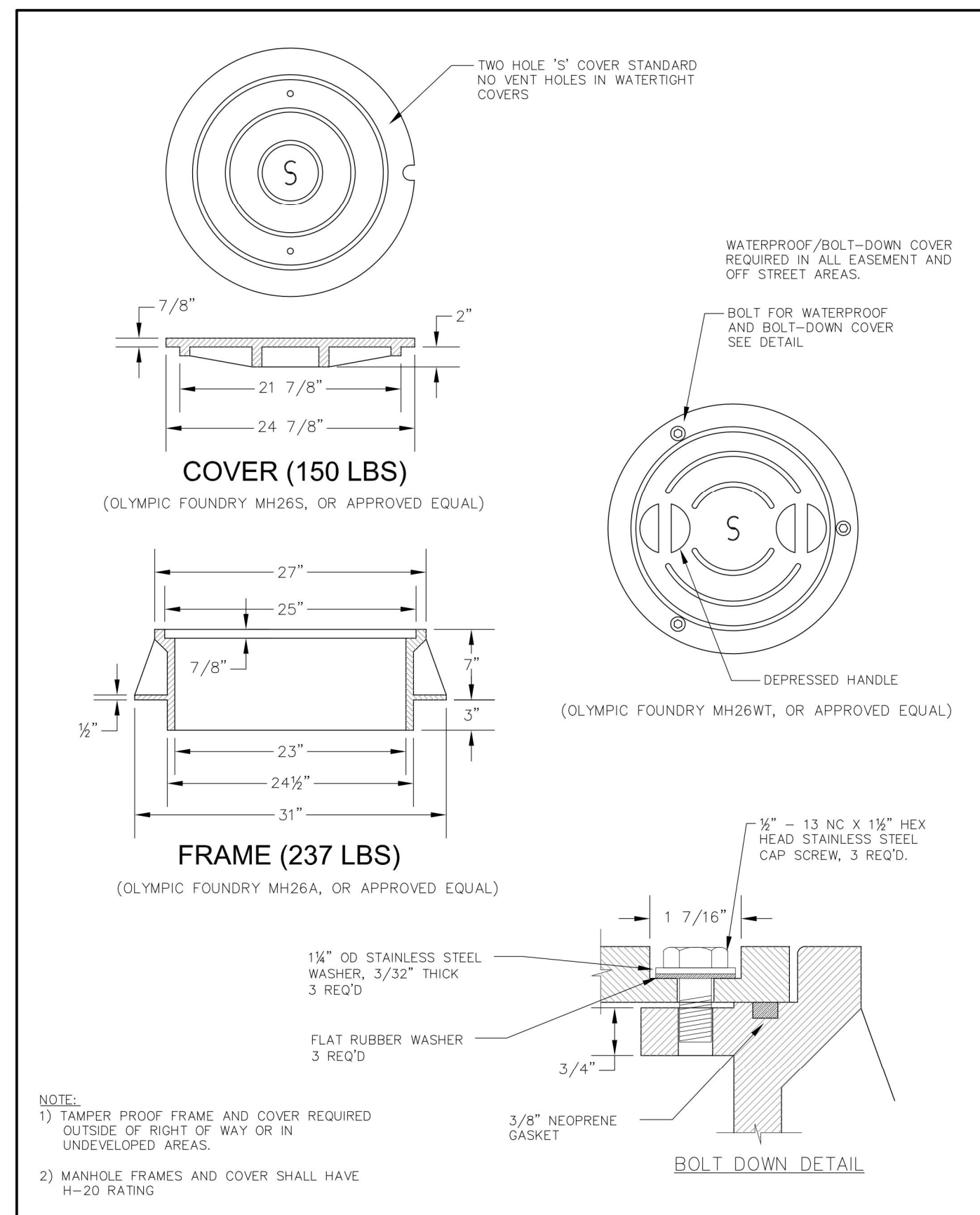
DETAIL NO. **S-205**
04/30/2009



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**MANHOLE BASE
STANDARD DETAILS**

DETAIL NO. **S-210**
04/30/2009



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**MANHOLE COVER AND
FRAME DETAILS**

DETAIL NO. **S-250**
04/30/2009

PORT OF TOLEDO
PROJECT SITE:
496 NE HWY 20, UNIT 1,
TOLEDO, OR 97123

**SHIPYARD - SANITARY
SEWER PROJECT**

CITY OF TOLEDO STANDARD DETAILS

DATE: 7/25/2022
SCALE: NTS
DRAWN BY: MJJ
SHEET NO:

PROJ. NO.: XXX
CHECKED BY: WLC

13467 SW SUMMERWOOD DR.
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CD01
16 OF 20

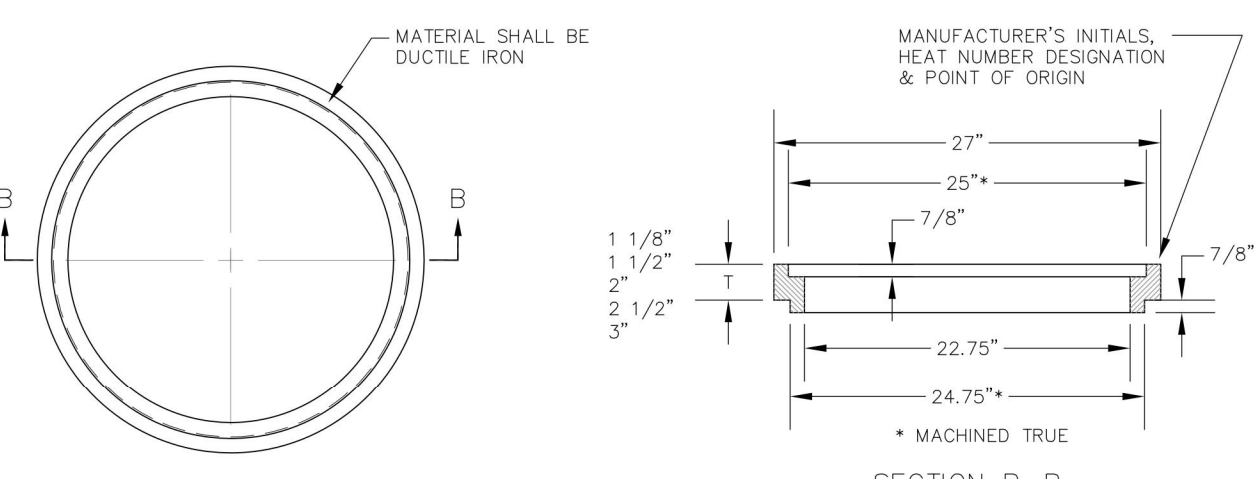
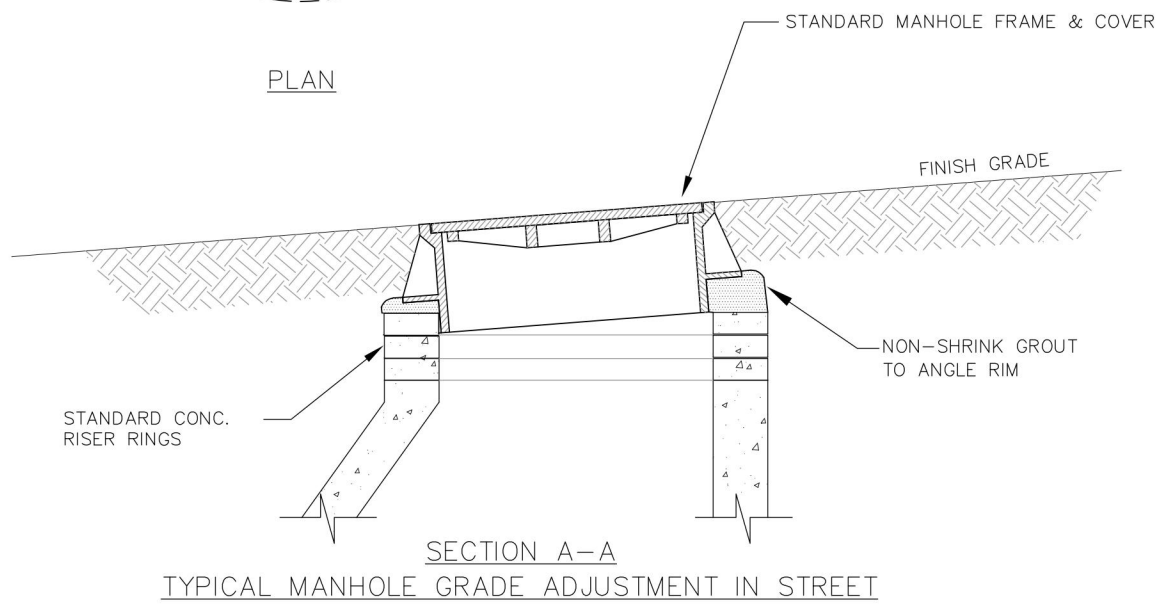
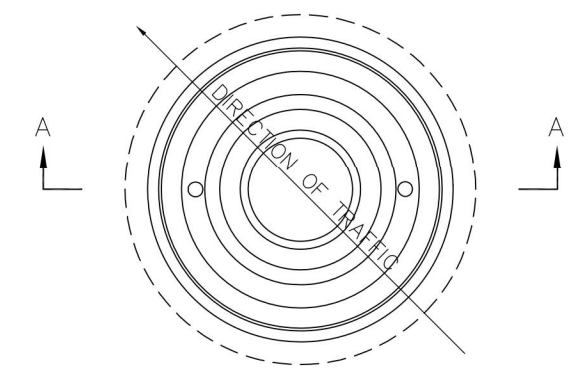
REVISIONS

NO.

DATE

**BID DRAWINGS -
7/10/23**

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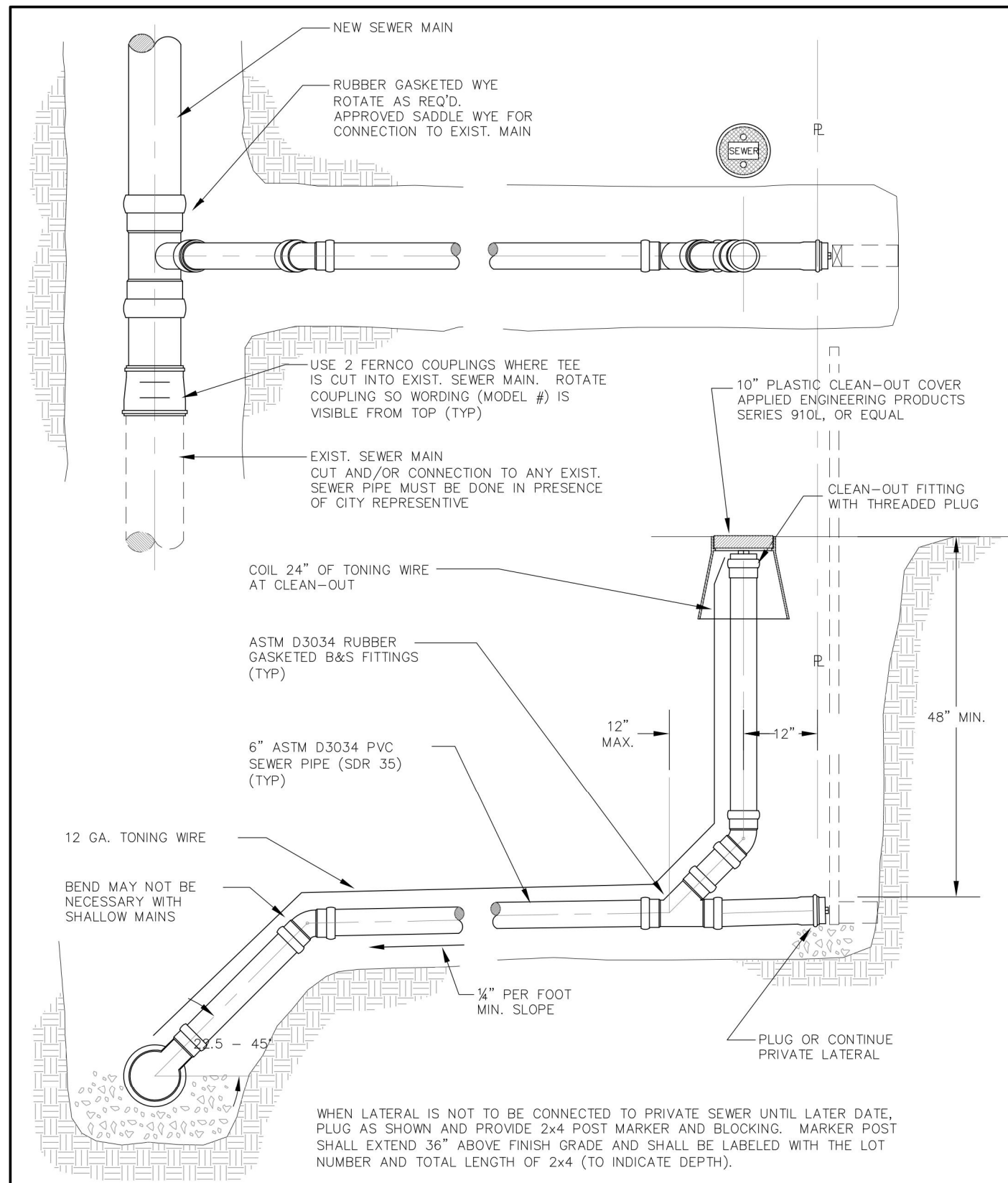


MANHOLE ADJUSTMENT RINGS FOR RESURFACING

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MANHOLE FRAME GRADE ADJUSTMENT

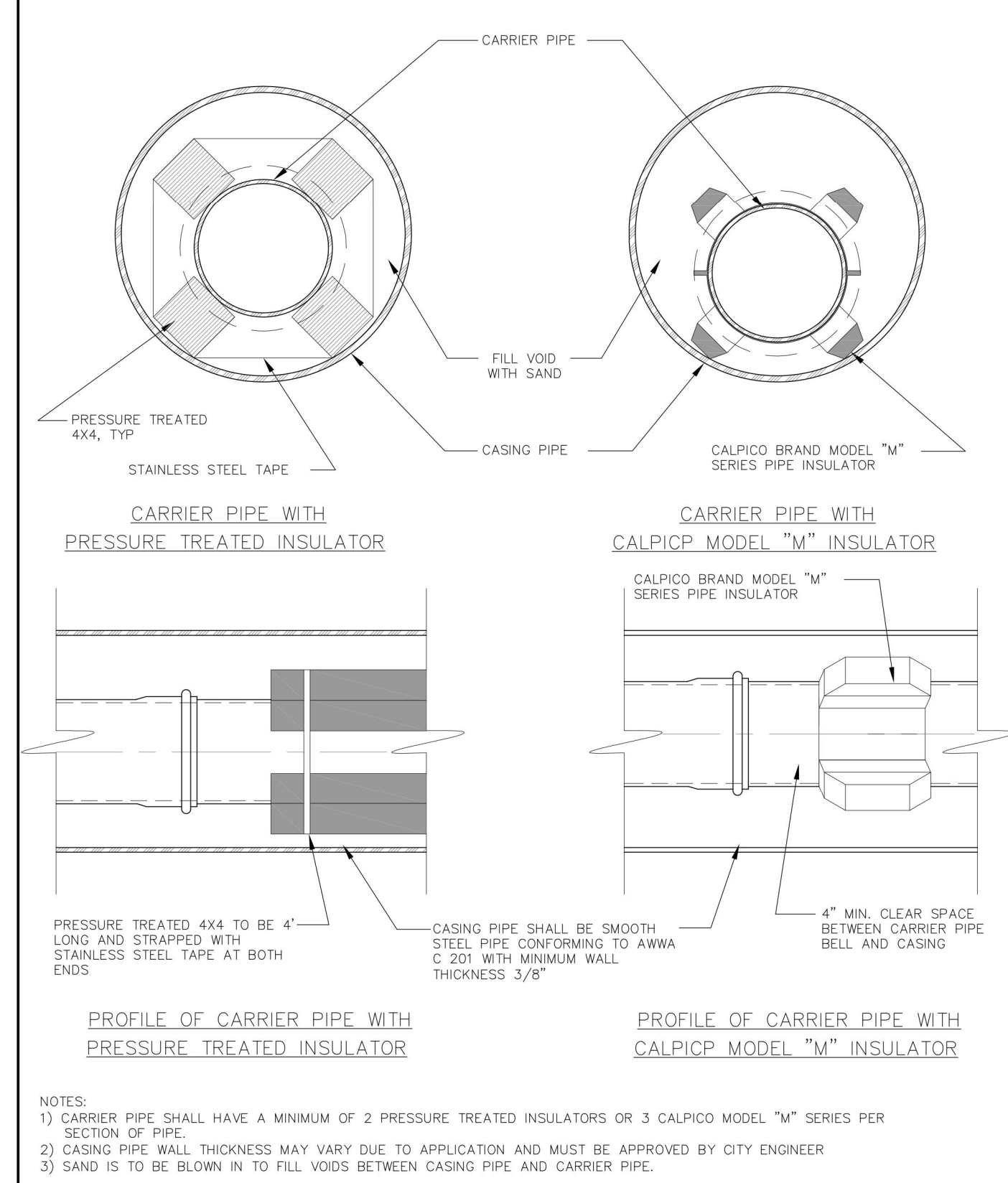
DETAIL NO.
S-260
04/30/2009



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STANDARD SERVICE CONNECTION AND LATERAL

DETAIL NO.
S-300
04/30/2009



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TYPICAL PIPE CASING DETAIL

DETAIL NO.
S-400
04/30/2009

PORT OF TOLEDO

PROJECT SITE:
496 NE HWY 20, UNIT 1,
TOLEDO, OR 97123



CITY OF TOLEDO STANDARD DETAILS

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WALTER L. COOK P.E.

DATE
7/25/2022
SCALE: NTS
DRAWN BY: MJJ
SHEET NO

PROJ. NO.: XXX
CHECKED BY: WLC

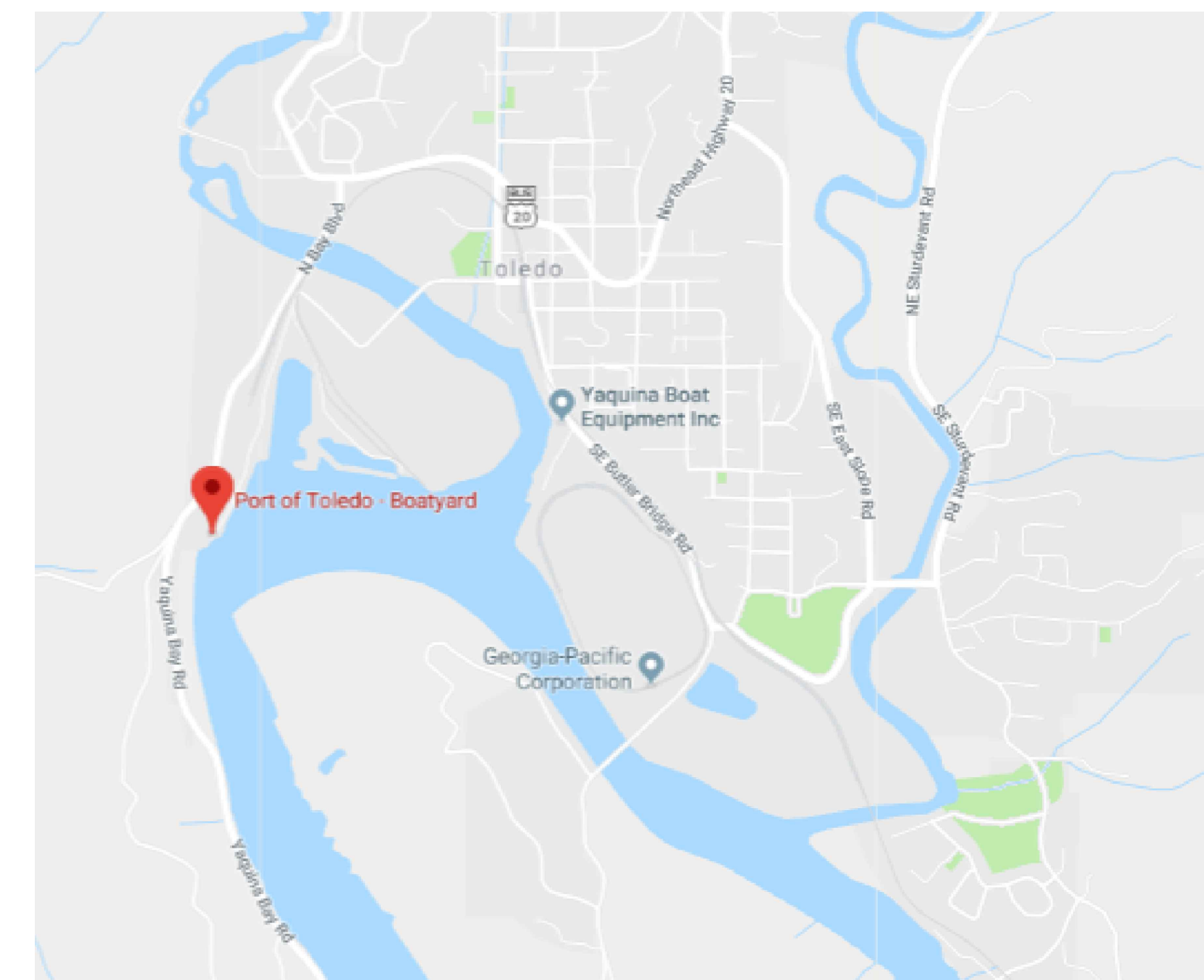
BID DRAWINGS -
7/10/23

CD02
17 OF 20

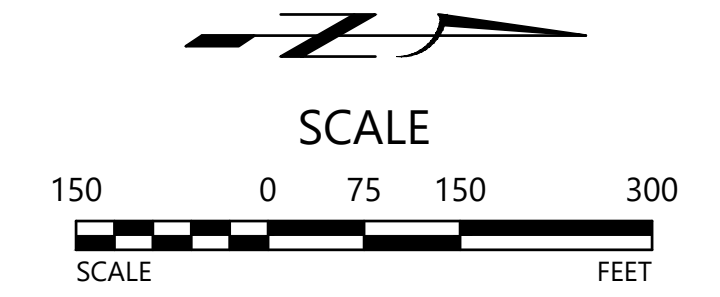
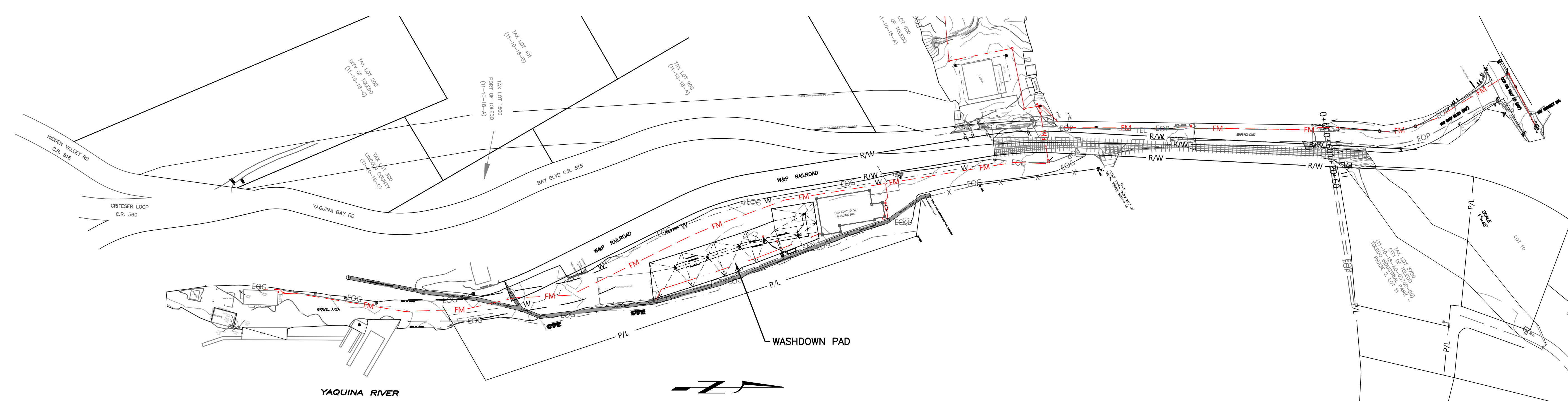
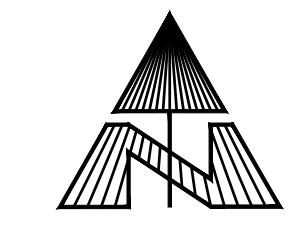
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NO.	DATE	REVISIONS

SCHEDULE 2: BOAT WASHDOWN PAD & WASHDOWN WATER TREATMENT



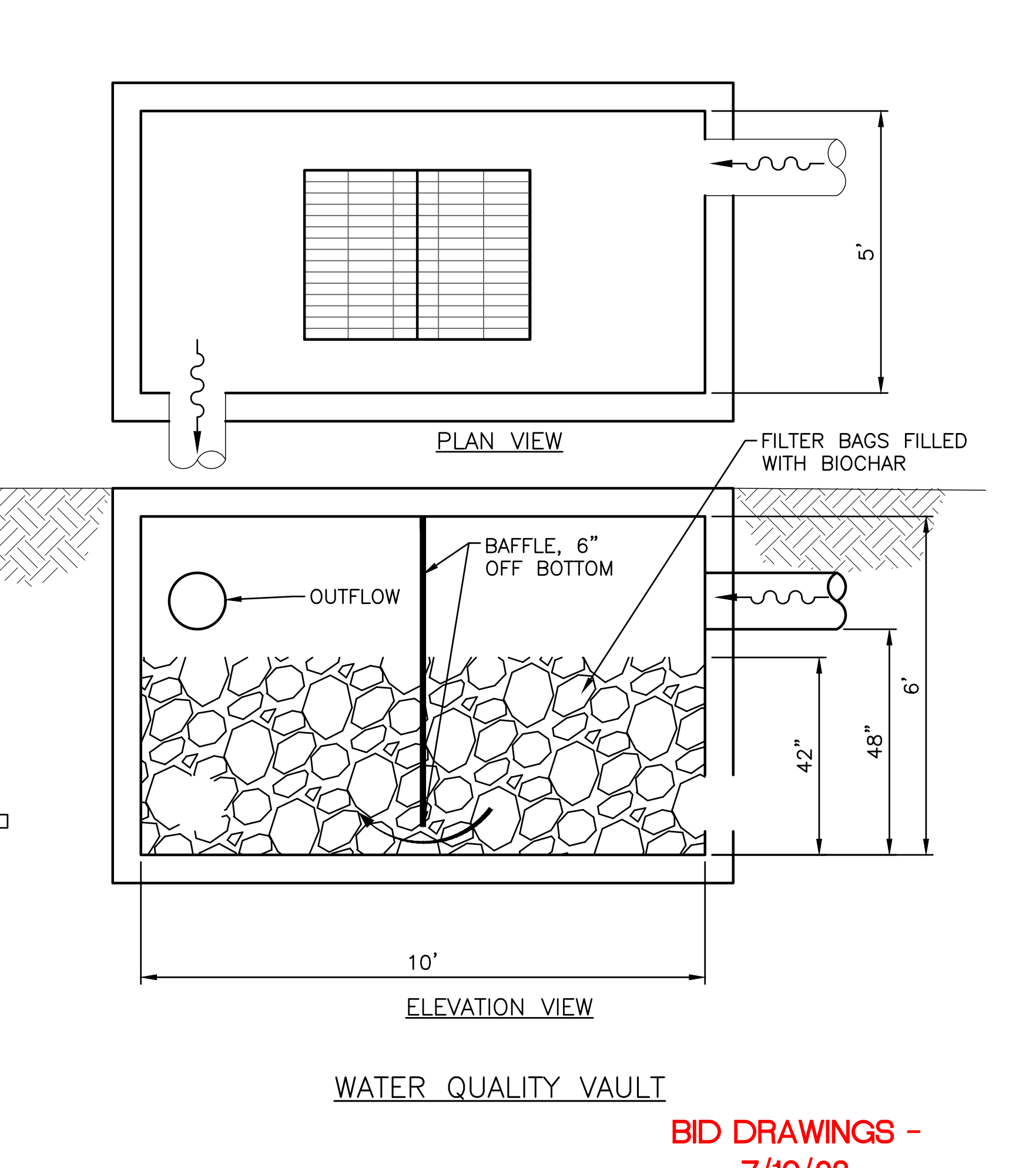
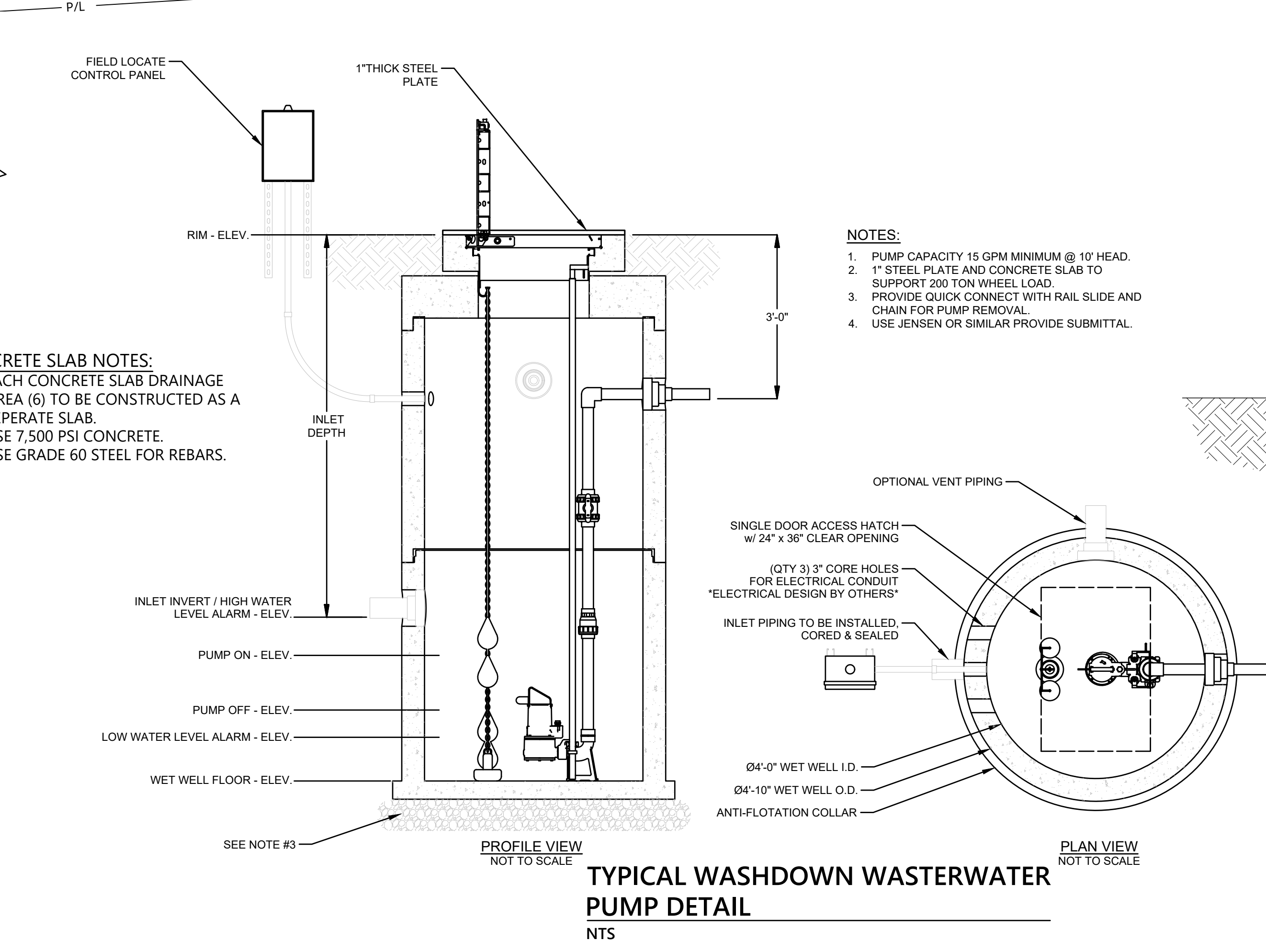
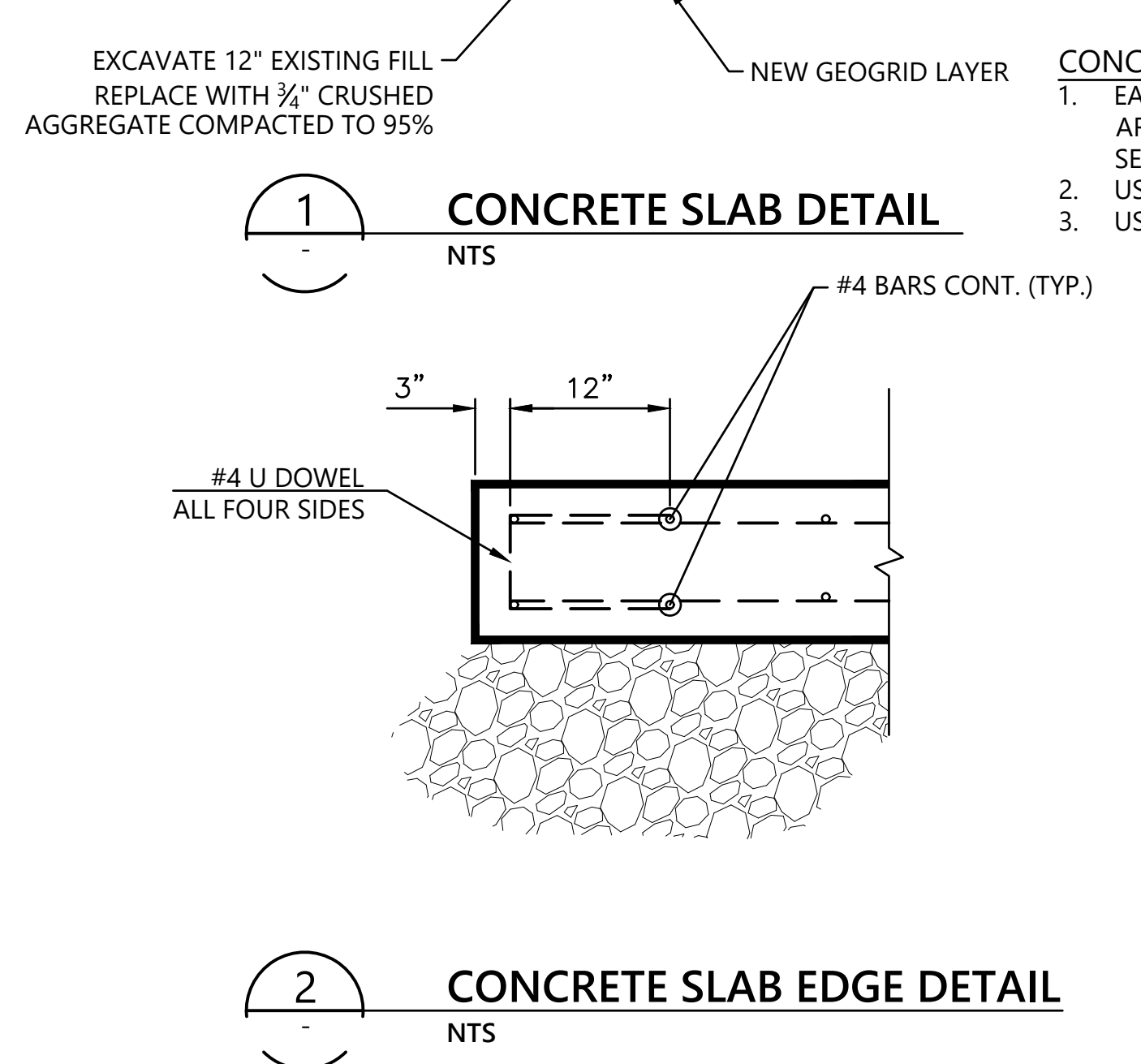
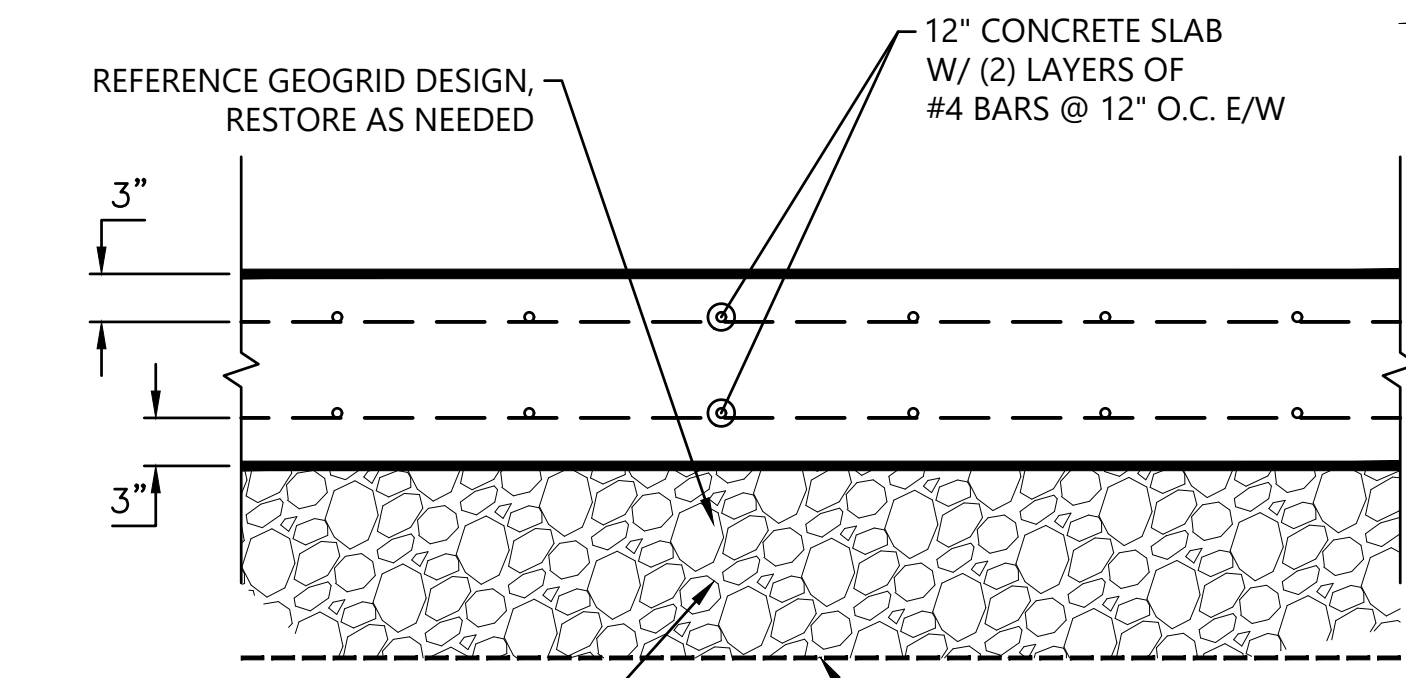
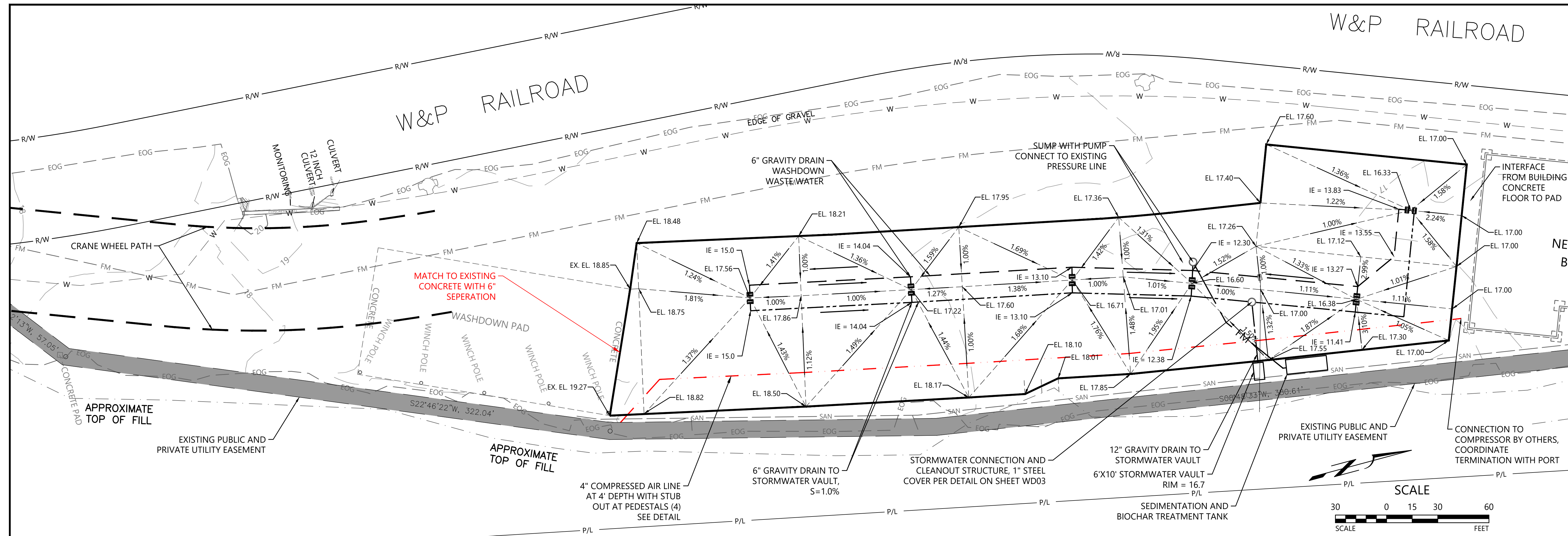
VICINITY MAP
NOT TO SCALE



NO.		DATE		REVISIONS	
BOATYARD - SANTARY SEWER PROJECT					
PORT OF TOLEDO					
PROJECT SITE: 496 NE HWY 20, UNIT 1, TOLEDO, OR 97123					
SCHEDULE 2					
13467 SW SUMMERWOOD DR. TIGARD, OR 97225 (503)-333-3470 WALTER L. COOK P.E.					
DATE 7/25/2022		PROJ. NO.:			
SCALE: 1" = 150'		XXX			
DRAWN BY: MJJ		CHECKED BY: WLC			
SHEET NO		WDO1 18 OF 20			

BID DRAWINGS -
7/10/23

PT_G1.dwg



NO.	DATE	REVISIONS

SHIPYARD - SANITARY SEWER PROJECT

PORT OF TOLEDO

PROJECT SITE:
496 NE HWY 20, UNIT 1,
TOLEDO, OR 97123

WASHDOWN PAD LAYOUT

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(503)-333-3470
WALTER L. COOK P.E.

DATE: 7/25/2022

SCALE: 1" = 30'

PROJ. NO.: XXX

DRAWN BY: M.J.

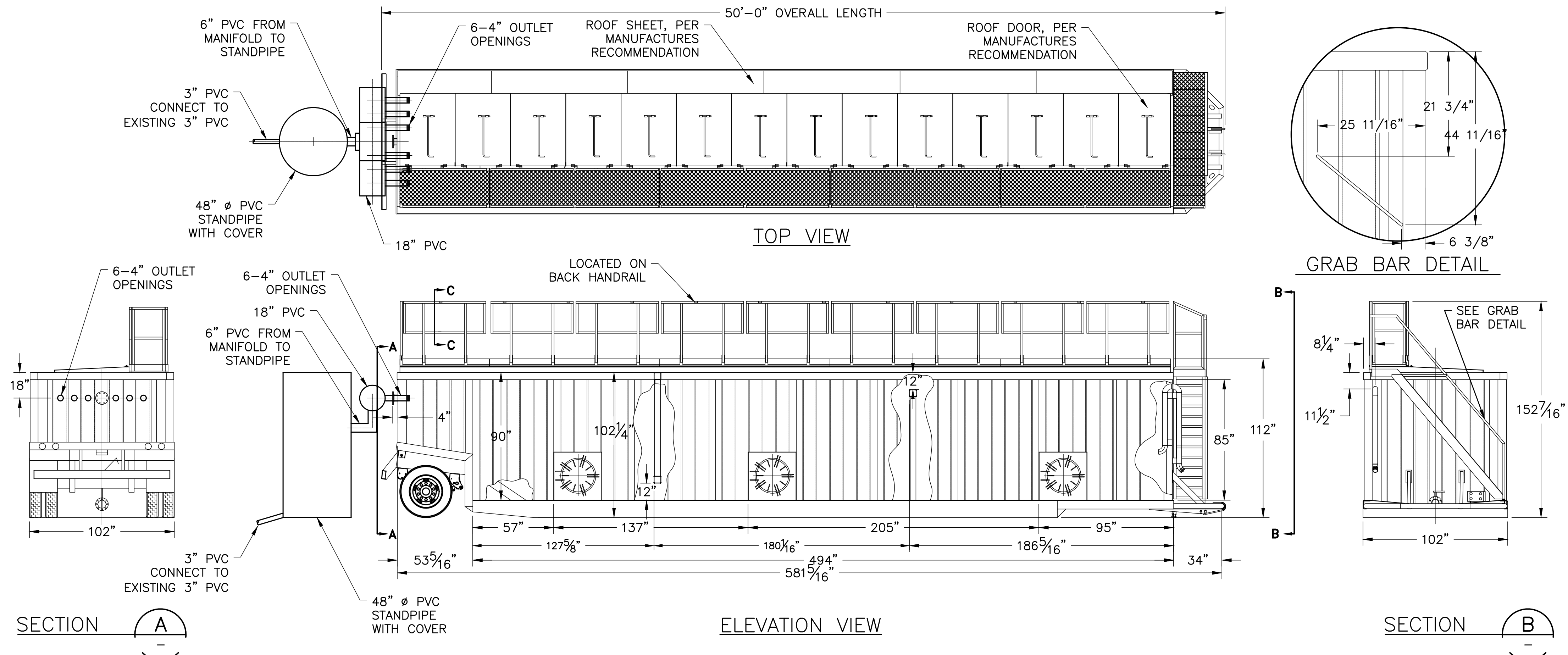
CHECKED BY: WLC

SHEET NO: WD02

19 OF 20

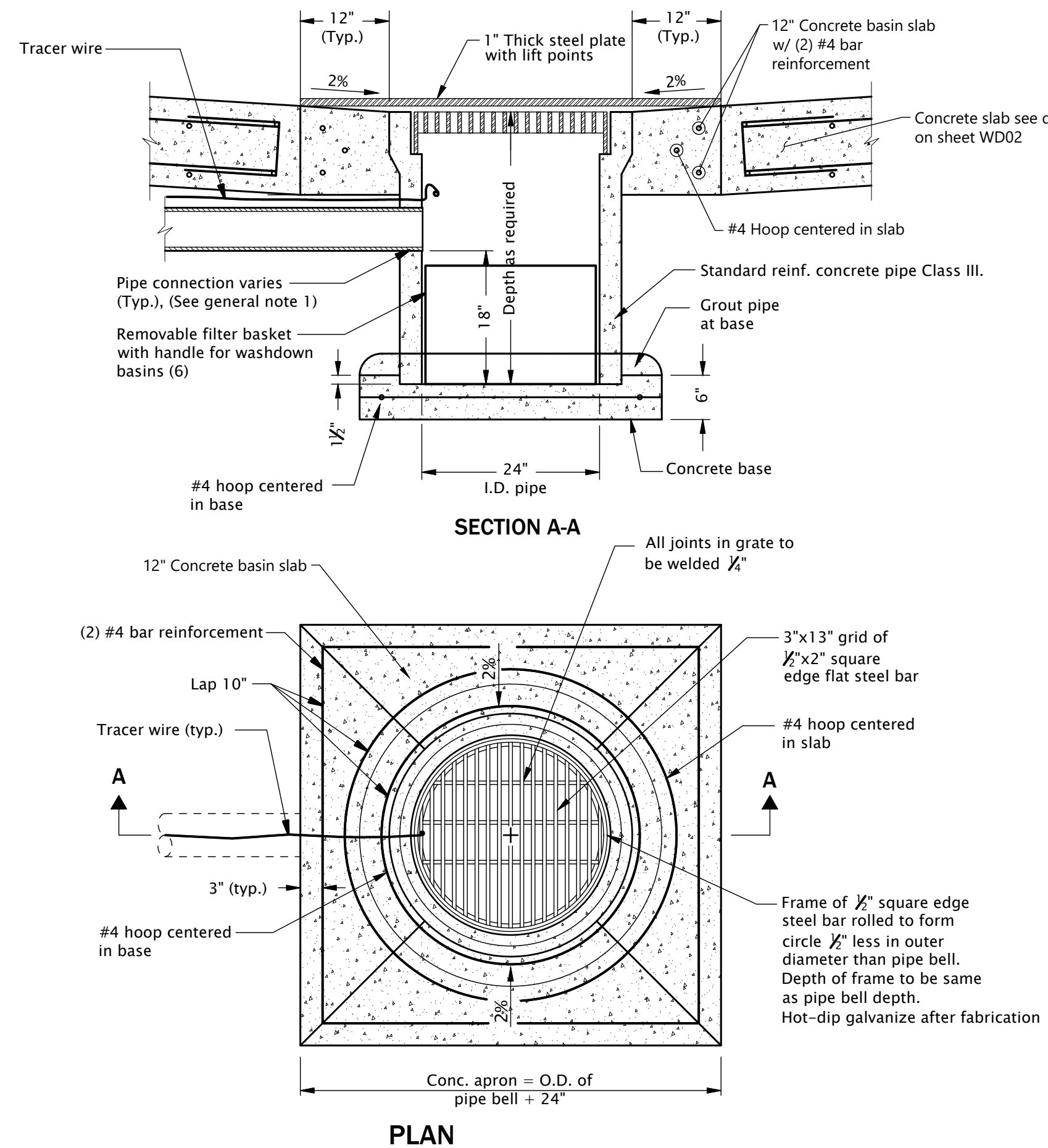
BID DRAWINGS - 7/10/23

PT_PP1.dwg



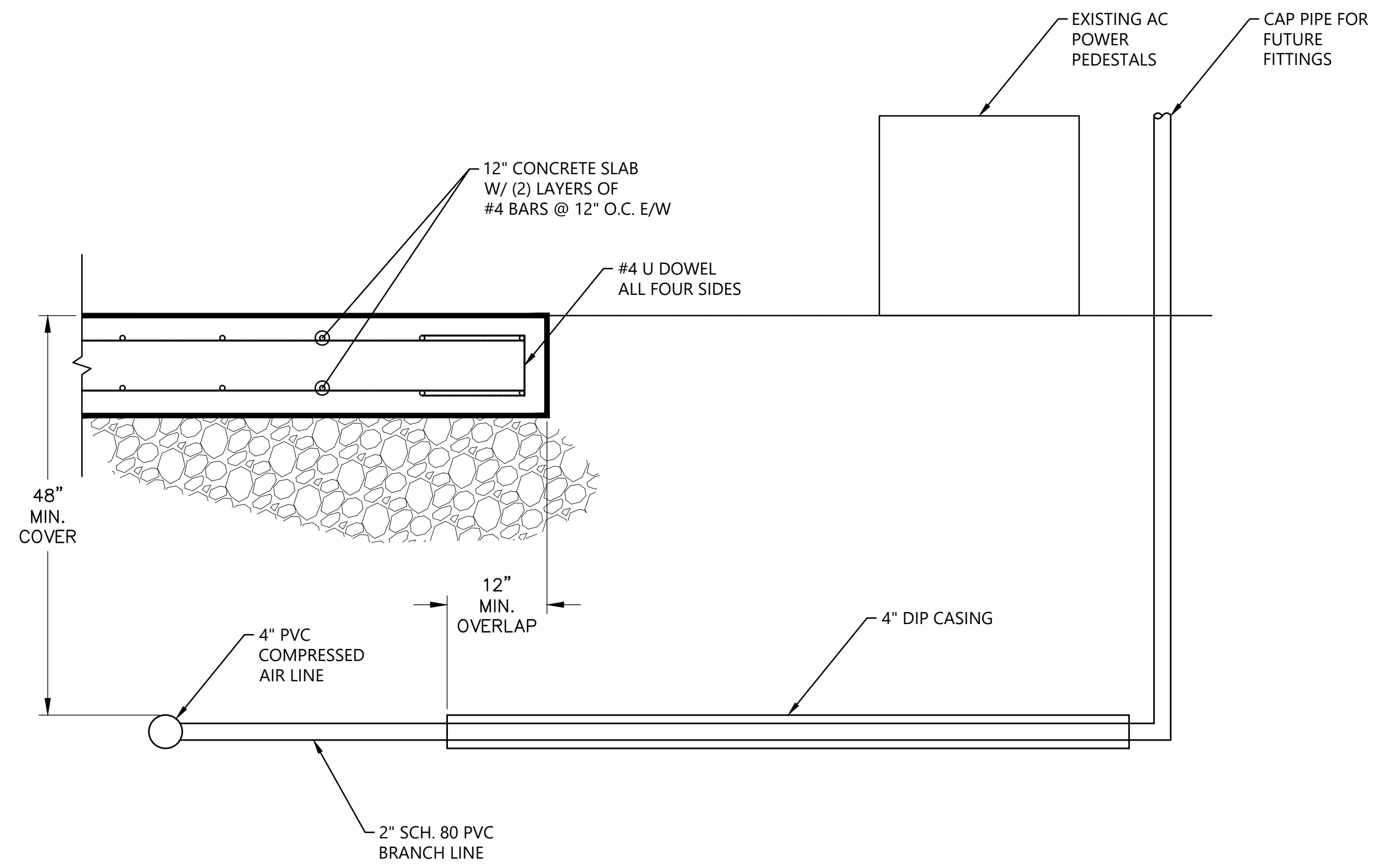
- NOTES:**
1. MINIMUM TANK SIZE - 15,000 GALLONS WITH A MINIMUM WIDTH OF 8' AND MINIMUM DEPTH OF 7'.
 2. LADDER AND CATWALK AS SHOWN.
 3. (3) ACCESS PORTS AS SHOWN.
 4. (3) BAFFLES AS SHOWN.
 5. UNITED RENTALS/BAKER TANK OR RAIN FOR RENT OR SIMILAR.
 6. FULLY RECONDITIONED TANK IS ACCEPTABLE.
 7. PROVIDE SUBMITTAL FOR APPROVAL.

SEDIMENTATION AND BIOCHAR TREATMENT TANK DETAIL



TYPICAL AREA DRAINAGE BASIN DETAIL

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
1. WHEN FLEXIBLE PIPE IS USED, INSTALL RESILIENT CONNECTORS CONFORMING TO REQUIREMENTS OF ASTM C923.
 2. PRECAST CONCRETE INLETS MAY BE USED WHEN SPECIFIED OR APPROVED. ALL PRECAST INLETS SHALL CONFORM TO REQUIREMENTS OF ASTM C913.
 3. ANCHOR VERTICAL LEG OF INLET PIPE IF NOT A GLUED JOINT.
 4. ALL REINFORCEMENT SHALL BE 2" CLEAR OF NEAREST FACE OF CONC., UNLESS OTHERWISE SHOWN.
 5. ALL CONCRETE SHALL BE COMMERCIAL GRADE CONCRETE.
 6. LOCATION, ELEVATION, DIAMETER, SLOPE, AND NUMBER OF PIPE(S) VARIES, SEE PROJECT PLANS.
 7. PROVIDE DRAINAGE INLET DETAIL, MINIMUM DIMENSIONS 2' x 2' x 30" DEPTH.
 8. DRAINAGE PIPE TO BE 6".
 9. 1" STEEL PLATE WITH 12" CONCRETE SUPPORT AS SHOWN REQUIRED FOR 200 TON CRANE WHEEL LOAD.



COMPRESSED AIR PIPE DETAIL

NO.		DATE		REVISIONS	
PORT OF TOLEDO PROJECT SITE: 496 NE HWY 20, UNIT 1, TOLEDO, OR 97123					
BOATYARD - SANITARY SEWER PROJECT					
WASHDOWN PAD DETAILS					
13467 SW SUMMERWOOD DR. TIGARD, OR 97225 (503)-333-3470 WALTER L. COOK P.E.					
DATE 6/2/16		SCALE:		PROJ. NO.:	
NTS		DRAWN BY:		PROJ.#	
MJJ		MJJ		CHECKED BY:	
SHEET NO		WLC		WLC	
WD03 20 OF 20					

BID DRAWINGS - 7/10/23

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