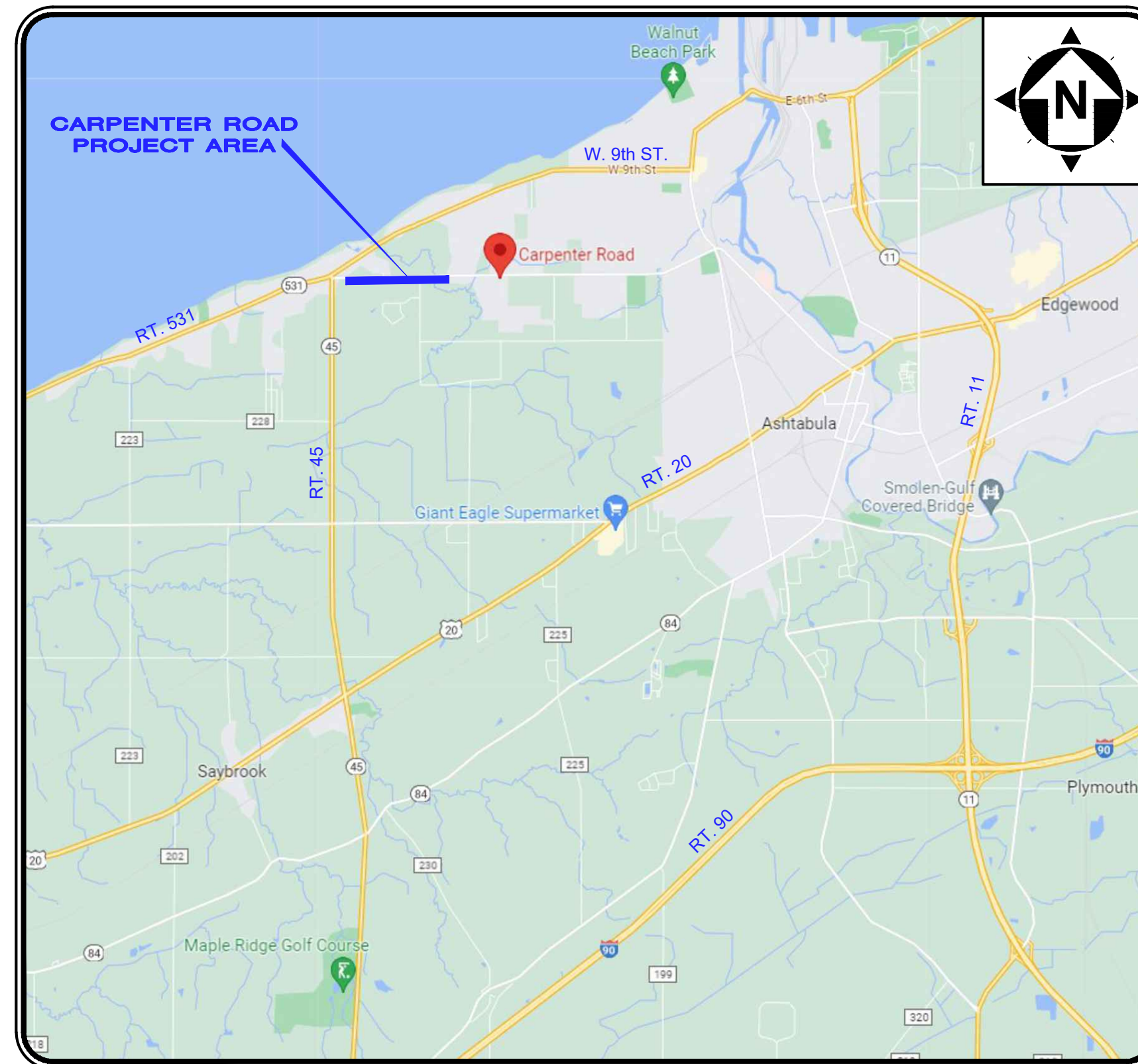
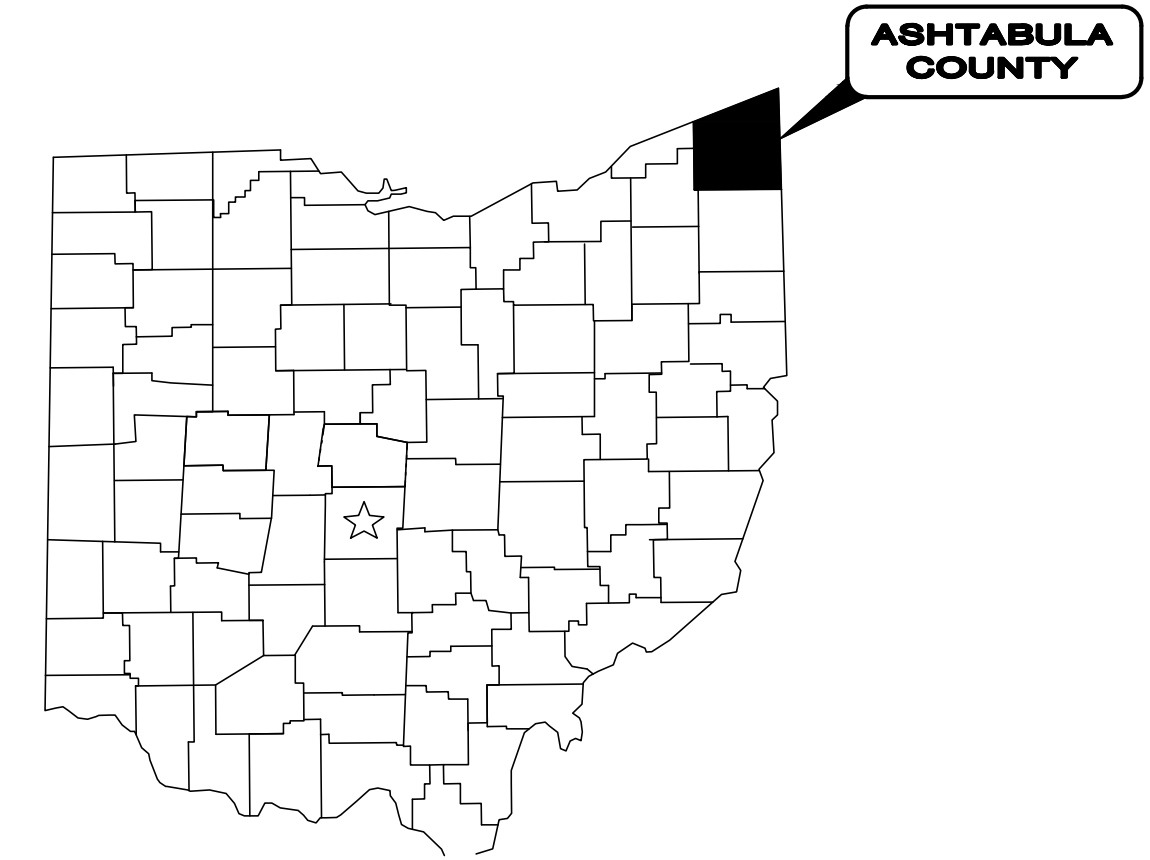


ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

CARPENTER ROAD SANITARY SEWER OVERFLOW ELIMINATION

SAYBROOK TOWNSHIP

JANUARY 2024



LOCATION MAP
SCALE: 1" = 5000'

- OEPA NOTES:**
1. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER DIRECT CONNECTIONS TO THE SANITARY OR STORM SEWER ARE PROHIBITED.
 2. THERE SHALL BE A MINIMUM 18" OF VERTICAL SEPARATION AND 10-FT HORIZONTAL SEPARATION BETWEEN THE SANITARY SEWERS AND THE STORM/WATER LINES.



ENGINEER'S PROJECT No. 231140

OWNER:

DIRECTOR, ACDES

DOUG STARKEY

DATE

1-4-2024

OFFICE:

ENVIRONMENTAL SERVICES
36 W. WALNUT STREET
JEFFERSON, OHIO 44047
(440) 576-3722 PHONE
(440) 576-3781 FAX

DEPARTMENTS:

WATER & SEWER DEPARTMENT
(440) 576-3722 PHONE
(440) 576-3781 FAX

ENGINEER:

CT CONSULTANTS, INC.
8150 STERLING COURT
MENTOR, OH 44060

(440) 951-9000 PHONE
(440) 951-7487 FAX

PROJECT SITE:

THE PROJECT AREA IS LOCATED ON CARPENTER ROAD, BETWEEN 4748 CARPENTER ROAD AND THE CARPENTER ROAD PUMP STATION. THE PROJECT SCOPE INCLUDES EXTENDING THE EXISTING FORCE MAIN DISCHARGING TO THE GRAVITY SEWER NEAR 4748 CARPENTER ROAD, APPROXIMATELY 2300-LF EAST TO A MANHOLE ALONG CARPENTER ROAD WITH NEW 10" FORCE MAIN. THE EXISTING PUMP IMPELLERS WILL BE MODIFIED WITHIN THE ELM STREET PUMP STATION TO ACCOMMODATE THE ADDED FORCE MAIN EXTENSION. APPROXIMATELY 380LF OF GRAVITY SANITARY SEWER IS PROPOSED TO BE EXTENDED FROM THE INTERSECTION OF SR45 AND CARPENTER ROAD, EAST TO A RE-COMMISSIONED FIRE STATION, ON EASTERN END OF CARPENTER ROAD.

ASHTABULA COUNTY APPROVALS:

[Signature] 1-9-24
COURT COMMISSIONER KATHRIN L. WHITTINGTON DATE

[Signature] 1-9-24
COURT COMMISSIONER CASEY R. KOZLOWSKI DATE

[Signature] 1-9-24
COURT COMMISSIONER J.P. DUCRO IV DATE

**OHIO 811 DESIGN SERIAL
NUMBER & UTILITY LIST:**

A331302256-00A, A331302269-00A, A331302280-00A, B312501539-00B, B312501539-00B, B312501541-00B, B312501549-00B, B312501552-00B, B312501797-00B

THE ILLUMINATING COMPANY
ATTN: JOHN ZASSICK
6896 MILLER ROAD
BRECKSVILLE, OH 44141
PHONE: 440-546-8706
JMZASSICK@FIRSTENERGYCORP.COM

WINDSTREAM COMMUNICATIONS
ATTN: JON HOBBY
205 SOUTH HAMBLEN STREET
CHARDON, OH 44024-1228
PHONE: (440) 285-5528
FAX: (440) 285-5468
JON.HOBBY@WINDSTREAM.COM

ENVIRONMENTAL SERVICES:
36 W. WALNUT STREET
JEFFERSON, OHIO 44047
PHONE: (440) 576-3722
FAX: (440) 576-3781

CHARTER COMMUNICATIONS:
3315 N. RIDGE ROAD E. SUITE #100
ASHTABULA, OHIO 44004
PHONE: (440)-261-4607
CELL: (440)-361-0024
jason.sprague@charter.com

DOMINION EAST OHIO
ATTN: 2nd FLOOR
RELOCATION DESIGN
320 SPRINGSIDE DRIVE, STE. 320
AKRON, OH 44333
PHONE: 330-664-2409
FAX: 888-504-0126
RELOCATION@DOMINIONENERGY.COM

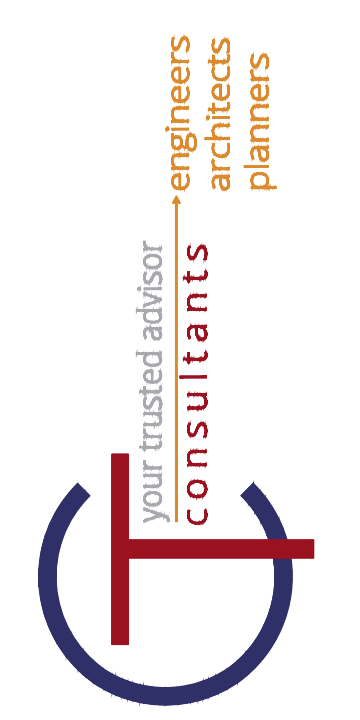
ASHTABULA COUNTY
DEPARTMENT OF
ENVIRONMENTAL SERVICES
36 WEST WALNUT STREET
JEFFERSON, OH 44057
PHONE: 440-576-3722
FAX: 440-576-3781

1. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



NOTE:

THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.



NO	REVISION	DATE

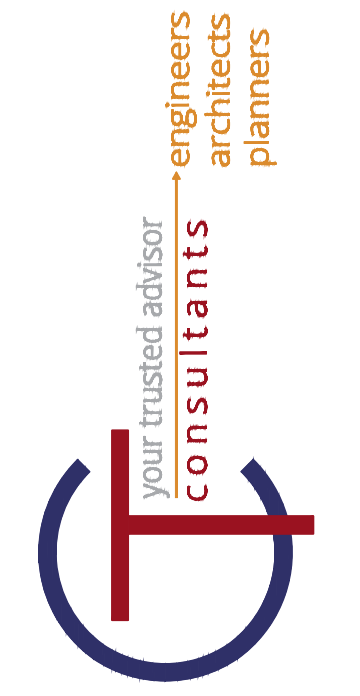
SCALE: AS SHOWN	DATE: 1/16/2024	DESIGNED BY: PAB	DRAWN BY: PAB	CHECKED BY: TEV
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ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY
SAYBROOK TOWNSHIP, OHIO

**GENERAL - 00 SERIES
COVER SHEET**

PROJECT NO:	
231140	
SHEET NAME	
00G-01	
SHEET	OF
1	22

[Signature]
PATRICK A. BLAKE P.E. No. E-88436 1/19/2024 DATE



PROJECT EXTENTS MAP

SCALE: 1" = 150'

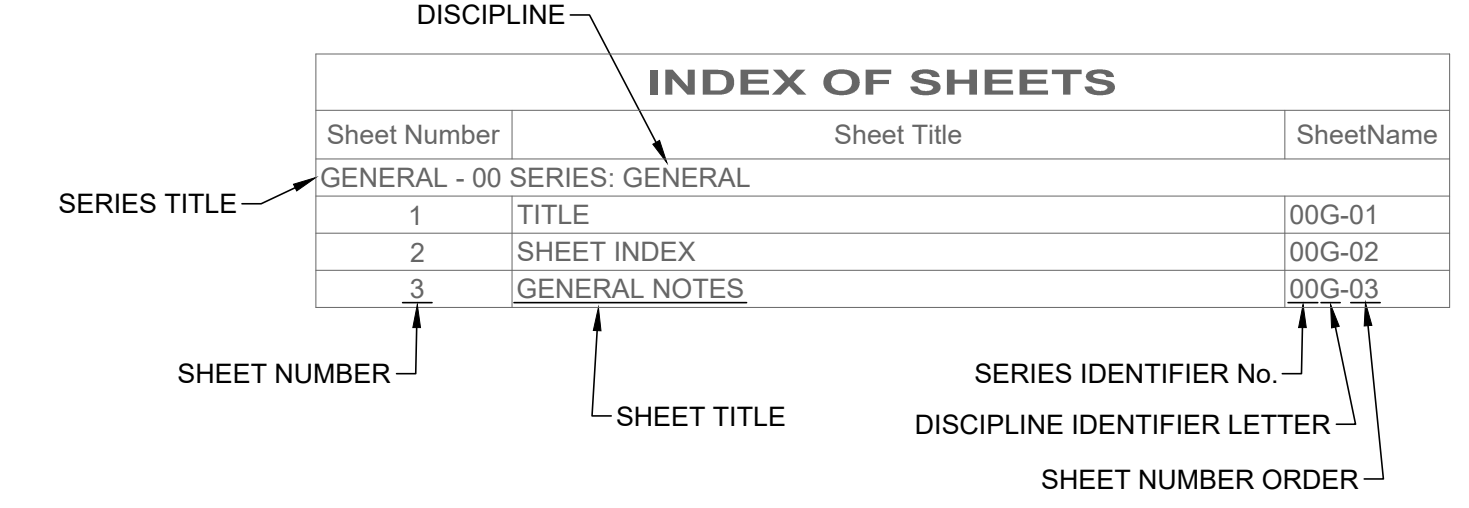
SERIES INFORMATION:

SERIES No.	DESCRIPTION:
00	GENERAL
01	WATER TANK SITE
02	WATER LINE SITE IMPROVEMENTS
10	WATER TANK FACILITY
20	CONSTRUCTION DETAILS
E	ELECTRICAL
SWP3	STORM WATER POLLUTION PREVENTION PLAN - SWP3 SERIES

DISCIPLINE INFORMATION:

IDENTIFIER:	DISCIPLINE:
G	GENERAL
C	CIVIL
S	STRUCTURAL
A	ARCHITECTURAL
D	PROCESS
M	MECHANICAL (PLUMBING & HVAC)
E	ELECTRICAL
Y	INSTRUMENTATION

INDEX EXPLANATION:



GENERAL SYMBOLOGY NOTES:

- THIS IS A STANDARD SHEET SHOWING COMMONLY USED SYMBOLOGY.
- ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE NEW IMPROVEMENTS SO AS TO HIGHLIGHT SPECIFIC TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- SYMBOLY OR DIAGRAMMATICAL LEGENDS MAY BE SHOWN ON INDIVIDUAL SHEETS FOR SCHEDULES, DIAGRAMS, DETAILS, SCHEMATICS OR EQUIPMENT.

DRAWING CODED NOTE TYPES:

- CT CONTRACTUAL NOTES ARE DEPICTED WITH A HEXAGON, SQUARE, CIRCLE OR TRIANGLE. ALL OTHER EXISTING WRITTEN CALLOUTS SHOWN ON THE REUSED SCANNED PLANS, SECTIONS & DETAILS ARE FOR EXISTING CONDITIONS AND REFERENCE ONLY, MANY OF THOSE NOTES FROM THE SCANNED DRAWINGS PERTAIN TO PREVIOUS WORK DONE.

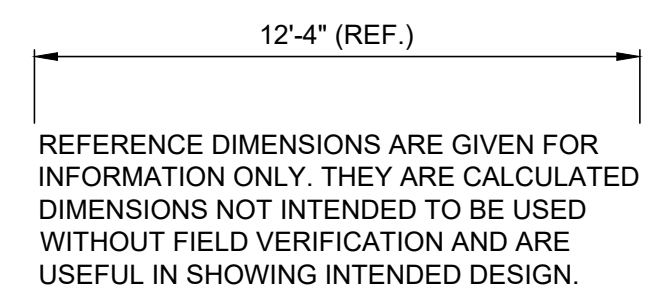
PLAN REVISIONS:

REVISION DESCRIPTION	1
REVISION DESCRIPTION	1
REVISION DESCRIPTION	2

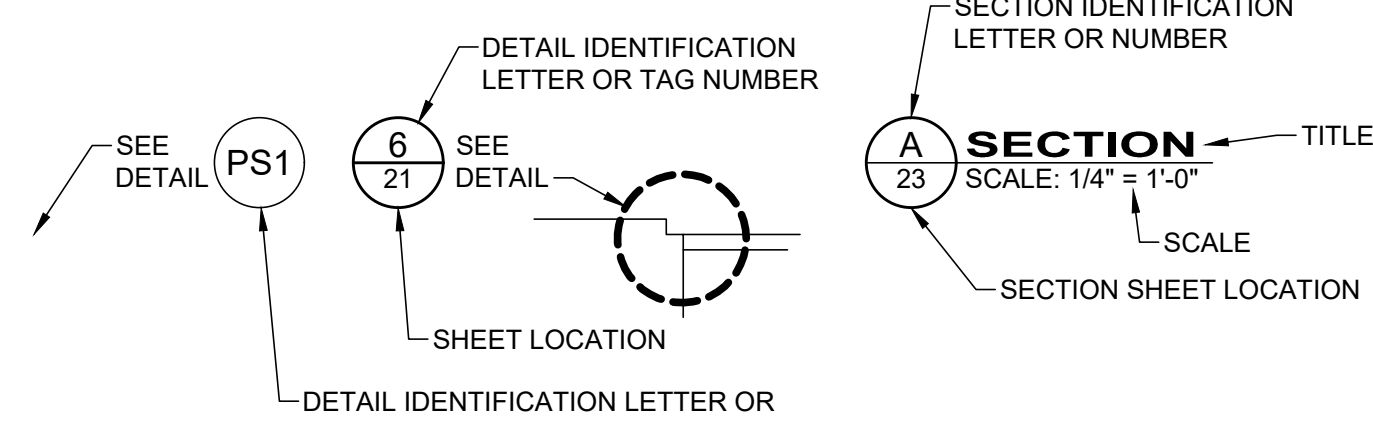
DEMOLITION CODED NOTES:

DEMOLITION DESCRIPTION	1
DEMOLITION DESCRIPTION	1
DEMOLITION DESCRIPTION	2

REFERENCE DIMENSION:



DETAIL REFERENCES:



GENERAL ABBREVIATIONS:

AR	AIR RELEASE VALVE	FRP	FIBERGLASS REINFORCED PLASTIC	PT	PRESSURE TEMPERATURE RELIEF
AV	AIR & VACUUM VALVE	FTG	FITTING	PV	PLUG VALVE
BA	BALL VALVE	GL	GLOBE VALVE	PVC	POLYVINYL CHLORIDE PIPE
BFV	BUTTERFLY VALVE	GS	GALVANIZED STEEL	R/W	RIGHT OF WAY
BK	BACKPRESSURE VALVE	GV	GATE VALVE	RJ	RESTRAINED JOINT
BM	BENCH MARK	HDPE	HIGH-DENSITY POLYETHYLENE PIPE	SAN	SANITARY
BP	BACKFLOW PREVENTER	KG	KNIFE GATE VALVE	SCH	SCHEDULE
CB	CATCH BASIN	KN	KNIFE VALVE	SB	SOIL BORING
CL	CENTER LINE	MH	MANHOLE	SDR	STANDARD DIAMETER RATIO
CO	CONE VALVE	MIN	MINIMUM	SS	STAINLESS STEEL
CPP	CORRUGATED PLASTIC PIPE	MJ	MECHANICAL JOINT	STA	STATION
CV	CHECK VALVE	MV	MUD VALVE	STL	STEEL PIPE
DIP	DUCTILE IRON PIPE	N	NORTHING	STM	STORM
E	EASTING	OH	OVERHEAD	SU	SURGE VALVE
EG	EXISTING GRADE	PD	PLUG DRAIN VALVE	SU	SOLENOID VALVE
EL	ELEVATION	PF	PRESSURE RELIEF	TYP	TYPICAL
EX	EXISTING	PG	PRESSURE REGULATOR	UG	UNDERGROUND
FG	FINISHED GRADE	PI	PINCH VALVE	VB	VALVE BOX
FH	FIRE HYDRANT	PR	PROPOSED	WAT	WATER
FL	FLANGED	PRV	PRESSURE REDUCING VALVE	WW	WATER VALVE

SITE SYMBOL LEGEND:

- EX:** (Existing symbols)
PR: (Proposed symbols)
- POST, MAILBOX
 - POST, SIGN
 - POST, SIGN - DOUBLE
 - POST, SIGN - DUAL
 - GEOTECH - SOIL BORING
 - BUSH
 - TREE, DECIDUOUS
 - TREE, EVERGREEN
 - TREE, STUMP
 - NAIL - MAG
 - PIN - IRON
 - PIPE - IRON
 - SPIKE
 - GAS METER
 - GAS VALVE
 - GAS VENT
 - POLE - ELECTRIC (POWER)
 - POLE - GENERAL
 - POLE - GUY
 - POLE - GUY ANCHOR
 - POLE - LIGHT
 - SANITARY CLEAN-OUT
 - SANITARY MANHOLE - 48"
 - SANITARY VENT
 - CATCH BASIN - 2X2
 - CURB INLET - 2X3
 - PLUG OR BULKHEAD
 - STORM CLEAN-OUT
 - STORM DRAIN
 - STORM MANHOLE - 48"
 - WATER HYDRANT, FDC
 - WATER HYDRANT, FIRE
 - WATER VALVE W/TEXT
 - WATER METER
 - WATER METER PIT

SITE LINE LEGEND:

- EX:** (Existing lines)
- RIGHT-OF-WAY (APPROXIMATE NOT SURVEYED)
 - PROPERTY LINE (APPROXIMATE NOT SURVEYED)
 - BUILDING OUTLINES
 - CONTOURS - MAJOR
 - CONTOURS - MINOR
 - DITCH CENTERLINE
 - SLOPE LINE
 - SLOPE - BREAKLINE
 - SLOPE - TOP
 - SLOPE - TOE
 - WATER CENTERLINE
 - WATER EDGE
 - EDGE OF ROAD
 - FENCE - GENERAL
 - FENCE - CHAIN LINK
 - GUIDE RAIL
 - TREE LINE
 - ELECTRIC LINE
 - ELECTRIC LINE - OH
 - ELECTRIC LINE - UG
 - GAS LINE
 - GAS SERVICE
 - SANITARY LINE
 - STORM LINE
 - WATER LINE
 - WATER SERVICE
 - CENTERLINE

- PR:** (Proposed lines)
- CENTERLINE
 - DRIVE CENTERLINE
 - PAVEMENT SAWCUT
 - GUIDE RAIL
 - DITCH CENTERLINE
 - STORM CULVERT LINE
 - EDGE OF PAVEMENT
 - CENTERLINE
 - PERMANENT CONSTRUCTION EASEMENT LINE (PCE)
 - TEMPORARY CONSTRUCTION EASEMENT LINE (TCE)
 - WORK LIMITS
 - DEMO - HASH
 - DEMO - "X"

GENERAL MATERIAL HATCHES:

- EXISTING ASPHALT ROADWAY (PLAN)
- PROPOSED ASPHALT DRIVEWAY REPLACEMENT (PLAN)
- PROPOSED GRAVEL DRIVEWAY REPLACEMENT (PLAN)
- PROPOSED CONCRETE DRIVEWAY REPLACEMENT (PLAN)
- DENOTES ITEM OR AREA FOR DEMOLITION

Sheet List Table		
Sheet Number	Sheet Title	Sheet Name
1	COVER SHEET	00G-01
2	SHEET INDEX	00G-02
3	GENERAL NOTES	00G-03
4	GENERAL NOTES	00G-04
5	P.S. MODIFICATION PLAN	10D-01
6	ELM DRIVE LIFT STATION PANEL DETAILS	10D-02
7	STA. 0+00 + TO STA. 4+50	PP-01
8	STA. 4+50 + TO STA. 9+75	PP-02
9	STA. 9+75 + TO STA. 14+50	PP-03
10	STA. 14+50 + TO STA. 19+60	PP-04
11	STA. 19+60 + TO STA. 24+00	PP-05
12	STANDARD DETAILS	SD-01
13	STANDARD DETAILS	SD-02
14	SECTION UNDER CARPENTER RD	20C-01
15	GENERAL NOTES	20C-02
16	FIRE STATION EXTENSION PLAN & PROFILE	20C-03
17	GENERAL DETAILS (1 OF 3)	20C-04
18	GENERAL DETAILS (2 OF 3)	20C-05
19	GENERAL DETAILS (3 OF 3)	20C-06
20	SWPPP NOTES	SWP-01
21	SWPPP DETAILS (1 OF 2)	SWP-02
22	SWPPP DETAILS (2 OF 2)	SWP-03

NO	DATE	REVISION	AS SHOWN	DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			R/LM	1/16/2024	R/LM	R/LM	PAS

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY, OHIO

GENERAL - 00 SERIES SHEET INDEX

PROJECT NO:	231140
SHEET NAME:	00G-02
SHEET:	2
OF:	22

GENERAL

- 1. THE CONTRACTOR SHALL PERFORM ALL OF THE WORK AND FURNISH ALL OF THE LABOR AND MATERIALS NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITIONS HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
2. ALL WORK COMPLETED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ACT AS WELL AS LOCAL REGULATIONS.
3. CONSTRUCTION MEANS AND METHODS AS WELL AS THE SAFETY AND PROTECTION OF PROPERTY, WORKERS, AND THE PUBLIC IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THROUGH THE USE OF PLATING, CONSTRUCTION FENCE, AND OTHER MEANS, THE CONTRACTOR SHALL SECURE THE CONSTRUCTION SITE.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. NO EXTRAS WILL BE PERMITTED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
5. THE CONTRACTOR MUST ALERT THE UTILITIES PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. AS THE CONTRACTOR ENCOUNTERS UTILITIES HE SHALL IMMEDIATELY NOTIFY THE FIELD REPRESENTATIVE AND TAKE THE NECESSARY AND PROPER STEPS TO PROTECT THE FACILITY AND ASSURE/RESTORE THE CONTINUANCE OF SERVICE.
6. THE CONTRACTOR SHALL NOTIFY THE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING. NO WORK SHALL BEGIN UNTIL A PRE-CONSTRUCTION MEETING HAS BEEN HELD.
7. A PRE-CONSTRUCTION VIDEO OF THE PROJECT AREA WILL BE REQUIRED AND SUBMITTED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS.
8. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED FROM 7:00 AM TO 7:00 PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE OWNER.
9. ACCESS TO ALL DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN UTILITY INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE COUNTY WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER.
11. ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY SYMBOL.
12. BEFORE THE COUNTY WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR WILL FURNISH THE COUNTY A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTOR HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
13. MATERIALS FOR "AS-DIRECTED" ITEMS SHALL NOT BE ORDERED OR DELIVERED TO THE PROJECT SITE OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
14. ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR CHECKING.
15. THE CONTRACTOR SHALL NOTIFY THE COUNTY POLICE AND FIRE DEPARTMENTS, ASHTABULA COUNTY ENGINEER, THE COUNTY REPRESENTATIVES AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.
16. THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC.. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.
17. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND/OR GRADE AREAS TO ELIMINATE THE PONDING OF WATER.
18. THE CONTRACTOR SHALL INSTALL INLET PROTECTION, SILT FENCE AND OTHER STORM WATER PROTECTION MEASURES TO KEEP SILT AND SEDIMENT FROM LEAVING THE SITE. TOPSOIL AND SEED DISTURBED AREAS AS SOON AS POSSIBLE.
19. ALL DISTURBED SIGNS, GUARDRAIL, MAIL AND/OR PAPER BOXES, DRIVES AND DRIVE CULVERTS SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED.
20. ALL DISTURBED AND/OR DAMAGED UTILITIES, STORM SEWER PIPES & APPURTENANCES, PAVEMENT, BERMS AND DITCHES SHALL BE REPAIRED AS DIRECTED.
21. THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS, OR ANY OTHER TYPE OF LAND MONUMENT. THE CONTRACTOR SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. THE CONTRACTOR SHALL REPLACE DESTROYED OR DISTURBED LAND MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.
22. PRESERVATION OF EXISTING VEGETATION SHALL TAKE PRECEDENCE OVER REMOVAL. REMOVE ONLY THOSE TREES AND SHRUBS NECESSARY TO COMPLETE CONSTRUCTION.
23. ALL ROAD SURFACES, LAWNS, APRONS, SHOULDERS, DRIVES, OR LANDSCAPING DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO PRE-CONSTRUCTION CONDITIONS OR BETTER BEFORE ACCEPTANCE OF WORK BY THE OWNER.
24. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY, WHEN ORDERED BY THE OWNER, WATER OR CALCIUM CHLORIDE FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
25. ALL SOIL AREAS DISTURBED SHALL BE TOPSOILED (4" THICK), SEEDED AND MULCHED. ALL TOPSOIL WORK INSIDE THE STREET RIGHT-OF-WAY SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT.
27. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE INSTALLING ANY PROPOSED CONDUIT. ANY ADJUSTMENTS NEEDED SHALL BE APPROVED BY THE ENGINEER.
28. ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
29. THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO (CURRENT EDITION), DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT

MAINTENANCE OF TRAFFIC NOTES:

- 1. MAINTAINING TRAFFIC/TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 "THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". AS A MINIMUM THE CONTRACTOR SHALL SUBMIT A CONTROL PLAN FOR REVIEW AND ACCEPTANCE BY THE COUNTY AND ENGINEER PRIOR TO BEGINNING WORK.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN TWO-WAY TRAFFIC, SAFE LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, INCLUDING PERSONS WITH DISABILITIES, TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR WILL FURNISH, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGGERS, SIGNING AND OTHER TRAFFIC CONTROLS TO ENSURE THE SAFETY OF PERSONS AND VEHICLES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS AS DEEMED NECESSARY BY THE ENGINEER AND IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). SUCH TIME AS THE AREA IS COMPLETELY BACKFILLED AND/OR THE PROJECT IS SUBSTANTIALLY COMPLETE.
3. THE CONTRACTOR WILL FURNISH AND INSTALL TRAFFIC COMPACTED SURFACE WITH ODOT 304 INCLUDING NECESSARY WATER FOR DUST CONTROL. THE COST FOR MAINTAINING TRAFFIC, TRAFFIC COMPACTED SURFACE AND DUST CONTROL SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.

PROTECTION AGAINST VANDALISM

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SITE SECURITY MEASURES AND / OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM UNTIL THE CONCRETE IS SUFFICIENTLY CURED AT NO ADDITIONAL COST.

SANITARY SEWER & FORCEMAIN NOTES:

- 1. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT THE FLOW OF ALL EXISTING SEWERS AND LATERALS WILL BE MAINTAINED AT ALL TIMES.
2. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A SET OF AS-BUILT DRAWINGS WITH THE LOCATIONS AND ELEVATIONS OF ALL SANITARY SEWER, GAS SERVICES, STORM SEWERS/DRAINS, WATER SERVICES AND ALL OTHER UNDERGROUND UTILITIES ENCOUNTERED FOR THE ENTIRE PROJECT.
3. WHERE THE PLANS PROVIDE FOR THE PROPOSED SEWER TO BE CONNECTED TO OR CROSS EITHER OVER OR UNDER AN EXISTING UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING UTILITY, BOTH LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. THERE WILL BE NO EXTRA PAYMENT FOR THE ABOVE WORK. COORDINATE ANY FIELD ADJUSTMENTS WITH THE ENGINEER PRIOR TO COMMENCEMENT OF THE CHANGE.
4. ALL SANITARY SEWER MATERIALS AND CONSTRUCTION ITEMS (MANHOLES, MAINLINES, JOINTS AND LATERALS) SHALL BE NEW AND IN ACCORDANCE WITH THE STATE OF OHIO EPA REGULATIONS AND THE ASHTABULA COUNTY SANITARY ENGINEER'S STANDARDS.
5. SHOP DRAWINGS OF ALL MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR TO PURCHASE.
6. NO CONSTRUCTION IS PERMITTED UNTIL WRITTEN AUTHORIZATION HAS BEEN RECEIVED FROM THE OHIO E.P.A.
7. THE CONTRACTOR SHALL SCHEDULE INSPECTION WITH REGULATORY AGENCIES SUCH THAT WORK PROGRESS IS NOT AFFECTED BY INSPECTION REQUIREMENTS.
8. EXCAVATION OUTSIDE NORMAL WORK LIMITS SHALL NOT BE COMMENCED WITHOUT APPROVAL OF THE ENGINEER.
9. ROOF DRAINS, FOUNDATION DRAINS, AND ANY OTHER CLEAR-WATER DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER SYSTEM.
10. SANITARY SEWER FORCEMAIN SHALL BE C900 (UNLESS OTHERWISE NOTED).

MATERIAL SPECIFICATION: ASTM D-1784
BEDDING SPECIFICATION: ASTM D-2321

- 11. BUILDERS AND CONTRACTORS MUST HOLD TO THE GRADES AND ELEVATIONS ESTABLISHED BY THE ENGINEER.
12. SANITARY SEWER MUST MAINTAIN A MINIMUM 18 INCH VERTICAL CLEARANCE AT ANY WATERLINE CROSSING OR CONCRETE ENCASEMENT AS INDICATED IN PLAN.
13. CONTRACTORS MUST CONDUCT INFILTRATION OR EXFILTRATION TESTS IN ACCORDANCE WITH OHIO EPA REGULATIONS AND IN THE PRESENCE OF A DESIGNATED REPRESENTATIVE OF THE ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES. CONTRACTOR IS TO CHOOSE THE METHOD OF CONDUCTING THE LEAKAGE TESTS AND MUST RECEIVE APPROVAL PRIOR TO STARTING CONSTRUCTION. EXFILTRATION OR INFILTRATION SHALL NOT EXCEED THE OHIO EPA LIMIT OF 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF SEWER PER DAY. TESTING SHALL ALSO BE IN ACCORDANCE WITH SPECIFICATIONS.
14. IF APPROVED BY THE COUNTY, AIR TESTING MAY BE PERFORMED ON SANITARY PIPE (INSTEAD OF EXFILTRATION/INFILTRATION TESTING). AIR TESTING SHALL COMPLY WITH ASTM F1417 FOR PLASTIC PIPE. TESTING SHALL ALSO BE IN ACCORDANCE WITH SPECIFICATIONS.
15. GRANULAR BACKFILL SHALL BE USED OVER MAINS AND LATERALS WITHIN PAVEMENT LIMITS, WITHIN 5 FEET OF PAVEMENT EDGE OR WITHIN THE 1:1 ZONE OF INFLUENCE OF PAVEMENT.
16. BACKFILL MATERIAL EXTENDING MORE THAN SIX (6) INCHES ABOVE THE LEVEL OF THE SIDES OF THE TRENCH, MUST BE REMOVED FROM THE JOB SITE. ANY PAVEMENT CUT, DAMAGED OR UNDERMINED BY EXCAVATION, SHALL BE REMOVED AND REPLACED. TEMPORARY PAVEMENT REPLACEMENTS SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR. PERMANENT REPLACEMENT MUST BE COMPLETED AS SOON AS PRACTICAL.
17. GRANULAR BEDDING SHALL BE USED PER SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
18. TOP ELEVATIONS OF MANHOLES, AS INDICATED ON THE PLAN AND PROFILE ARE APPROXIMATE AND SHOULD BE USED FOR BIDDING PURPOSES ONLY. ACTUAL TOP ELEVATIONS SHALL BE MEASURED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHOULD NOTE THAT NO EXTRAS WILL BE AWARDED NOR SHALL ANY DEDUCTION BE MADE FOR MANHOLES WHOSE AS-BUILT DEPTHS MAY VARY FROM THOSE SHOWN ON PLANS. ADJUSTMENT OF THE CASTING HEIGHT MAY BE MADE WITH CONCRETE GRADE RINGS. MAXIMUM ADJUSTMENT IS 9". NO CHANGE IN PAYMENT WILL OCCUR DUE TO AS-BUILT DEPTHS VARYING FROM PLAN DEPTHS. MANHOLE LIDS SHALL BE 0.5" ABOVE PAVED SURFACES AND TWO (2) INCHES ABOVE UNPAVED GROUND (UNLESS OTHERWISE NOTED IN THE PLANS). NO EXTRAS WILL BE PROVIDED FOR FIELD ADJUSTMENT OF MANHOLES.
19. INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A FLEXIBLE, WATERTIGHT GASKET, OR ANY WATERTIGHT CONNECTION ARRANGEMENT THAT COMPLIES WITH ASTM C-923 AND ALLOWS FOR DIFFERENTIAL SETTLEMENT TO TAKE PLACE BETWEEN THE PIPE AND THE MANHOLE WALL.
20. LOCATION AND LENGTHS OF ALL LATERALS SHALL BE GIVEN ON ALL CUT SHEETS AND AS-BUILT DRAWINGS.
21. HYDROSTATIC PRESSURE TESTING OF THE SANITARY FORCEMAIN WILL BE REQUIRED. HYDROSTATIC TEST FOR PVC FORCEMAINS SHALL CONFORM TO AWWA C605. MINIMUM TEST DURATION SHALL BE 2-HOURS AT 125% OPERATING PRESSURE.

JACK AND BORE NOTES:

- 1. FOR JACK AND BORE UNDERNEATH THE ROADWAY, THE CONTRACTOR SHALL INCLUDE PROVISIONS FOR SUPPORT OF EXISTING PAVEMENTS AND STRUCTURES WHEN STAGING AND INSTALLING THE BORING AND RECEIVING PITS. SUPPORT OF THE BORING AND RECEIVING PITS SHALL EXTEND TO FINISH GRADE, TO MINIMIZE IMPACTS TO NEARBY PAVEMENTS OR UTILITIES. BEFORE BORING, THE CONTRACTOR SHALL CONFIRM DEPTHS AND LOCATIONS OF EXISTING BURIED UTILITIES WITHIN THE EXTENTS OF THE JACK AND BORE WORK AREA. EXISTING UTILITIES LOCATION AND DEPTHS SHOWN HEREIN ARE PER BEST AVAILABLE COUNTY AND UTILITY RECORDS. IF CONDITIONS OR LOCATIONS OF UTILITIES DIFFER FROM PLAN, CONTRACTOR SHALL NOTIFY ENGINEER BEFORE PERFORMING THE BORE.

ROADWAY EXCAVATION AND PAVEMENT

- 1. ALL PAVEMENT REMOVAL AND REPLACEMENT, NEW PAVEMENT AND ASSOCIATED ROADWAY WORK WILL BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, CURRENT ISSUE, WITH THE MODIFICATIONS AS SET FORTH IN THESE SPECIFICATIONS.
2. CURB AND DRIVE APRONS THAT NEED TO BE REPLACED SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EACH RESPECTIVE ITEM.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

- 1. THE CONTRACTOR WILL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES AND IN CASE OF DISTURBANCE, HE SHALL ENGAGE A REGISTERED SURVEYOR TO REPLACE THEM AT HIS EXPENSE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THEIR LOSS OR DISTURBANCE.

SUBSURFACE CONDITIONS

- 1. IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID. CONTACT THE COUNTY TO MAKE ARRANGEMENTS.

STATIONING AND LOCATIONS

- 1. ALL LOCATIONS AND ITEMS CALLED OUT BY STATION ARE SUBJECT TO ADJUSTMENT IN THE FIELD AS APPROVED BY THE ENGINEER.

SANITARY, STORM, AND WATER SERVICE CONNECTIONS

- 1. THE FOLLOWING NOTES APPLY TO SANITARY, STORM, AND WATER CONNECTIONS
a. LOCATIONS OF EXISTING SERVICE CONNECTIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING CONNECTIONS AT NO ADDITIONAL COST TO THE COUNTY. THE CONTRACTOR SHALL RECORD ACTUAL LOCATION INFORMATION ON HIS RECORD DRAWINGS AS CONSTRUCTION OCCURS.
b. THERE SHALL BE NO ADDITIONAL PAYMENT MADE FOR SAW CUTTING, EXCAVATION OR BACKFILL, INCLUDING MATERIALS AND LABOR FOR, PIPING, CAPS, BULKHEADS AND APPURTENANCES PLACED FOR LATERALS WHICH ARE DETERMINED TO BE INACTIVE AND THUS ARE TO BE ABANDONED.
c. NO INACTIVE LATERALS SHALL BE RECONNECTED TO THE SEWER.
2. THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL SUPPLY ALL PIPE AND ADAPTERS TO CONNECT TO EXISTING PIPING. THE ADAPTERS MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
4. EXISTING SEWER AND WATER SERVICE CONNECTIONS SHALL BE PROTECTED AND MAINTAINED IN SERVICE. ANY EXISTING WATERLINE, SANITARY SEWER, AND GAS LINE, IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

METER BOXES, VALVES BOXES, STRUCTURES ADJUSTED TO GRADE

- 1. ALL EXISTING MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER METER BOXES, WATER VALVE BOXES, GAS VALVE BOXES OR OTHER EXISTING UTILITY APPURTENANCES WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO THE PROPOSED GRADE AND FLUSH WITH THE NEW SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS OF WORK EXCEPT WHEN BID AS A SEPARATE ITEM. CONTRACTOR TO SUPPLY 1" RISER FOR ALL VALVE BOXES ADJUSTED TO GRADE.

EXISTING UTILITIES

- 1. EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE PRIOR TO BID SUBMISSION.
2. THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.
3. THE LOCATIONS OF THE UNDERGROUND UTILITIES ARE PLOTTED ACCORDING TO THE INFORMATION FURNISHED BY THE UTILITIES CONCERNED AND THE COUNTY DOES NOT GUARANTEE THE ACCURACY THEREOF. CONTRACTOR ALSO TO COORDINATE HIS WORK WITH THE DOMINION EAST OHIO GAS COMPANY, CLEVELAND ELECTRIC, ALL-TEL AND TIC FOR GAS LINE AND/OR POLE RELOCATION.
4. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE COUNTY INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS. CABLE (CEI, OBT & TV) RELOCATION AND SUPPORT. COST SHALL BE INCLUDED IN OTHER BID ITEMS.
5. WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THAT OF THE COUNTY.
6. DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.
7. BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE COUNTY, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE COUNTY, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS. THE UTILITY OWNERSHIPS ARE LISTED ON THE COVER SHEET.
8. WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.
9. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
10. IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

NOISE CONTROL

- 1. CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WEEKDAY DAYTIME HOURS UNLESS APPROVED 48 HOURS IN ADVANCE BY THE COUNTY.

LANDSCAPING BEDS, PLANTINGS AND TREE PROTECTION/REMOVAL

- 1. ANY LANDSCAPING BEDS, PLANTINGS AND TREES DISTURBED BY CONSTRUCTION ACTIVITIES BEYOND THE RIGHT-OF-WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR REPLACED AS DIRECTED BY THE COUNTY.
2. ALL TREES WITHIN THE RIGHT-OF-WAY SHALL THAT ARE IN CONFLICT WITH CONSTRUCTION TO BE REMOVED BY THE CONTRACTOR. TREES GREATER THAN 12" IN DIAMETER THAT ARE REMOVED ARE TO BE PAID FOR EACH TREE. TREES LESS THAN 12" IN DIAMETER THAT ARE REMOVED ARE TO BE INCLUDED IN THE COST OF THE INSTALLED ITEMS.

SALVAGED ITEMS

- 1. THE COUNTY SHALL RECEIVE ALL SALVAGED ITEMS SUCH AS MANHOLE CASTINGS, FIRE HYDRANTS, VALVE CAPS, ETC. THE COUNTY HAS THE RIGHT OF FIRST REFUSAL FOR ALL STEEL REMOVED FROM THE PROJECT.

RESTORATION

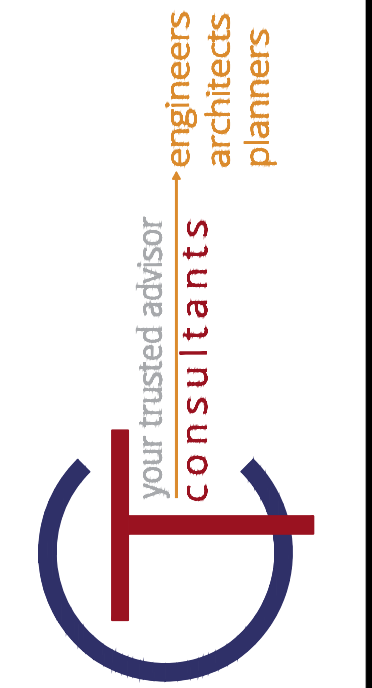
- 1. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORKDAY.
2. ALL EXISTING STORM AND SANITARY SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
3. ALL DEWATERING FLOWS ARE TO BE KEPT FREE OF SILT, SEDIMENT, DEBRIS AND OTHER POLLUTANTS THROUGH APPROPRIATE MEANS (SETTLING BASINS, FILTERS, ETC.).


Table with 2 columns: REVISION, DATE. Multiple empty rows for tracking changes.

Table with 2 columns: SCALE, AS SHOWN; DATE, 1/16/2024; DESIGNED BY, PAB; DRAWN BY, RLM; CHECKED BY, PAB.

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO
GENERAL - 00 SERIES
GENERAL NOTES

Table with 2 columns: PROJECT NO., SHEET NAME, SHEET, OF. Values: 231140, 00G-03, 3, 22.

EROSION & SEDIMENTATION CONTROL NOTES:

1. CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS CAUSED FROM CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS OR BETTER. FOR DISTURBED LAWN AREAS, THE CONTRACTOR SHALL INSTALL COMPACTED, SCREENED, IMPORTED TOPSOIL TO PROVIDE A SMOOTH TRANSITION FROM THE ROAD SURFACE TO THE NON-PAVED SURFACE. SEE STANDARD DETAILS AND THE FOLLOWING NOTES FOR REQUIRED SEED MIX.
 - 1.1 ALL GRASS AREAS ARE TO BE RESTORED UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.
 - 1.2 THE COMPOSITION OF SEED MIXTURE SHALL CONFORM TO THE PROJECT SPECIFICATIONS FOR SEEDING.
2. EROSION CONTROL SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS OR ORDERED BY THE GOVERNING AGENCY DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH USE OF EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S).
3. TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORK OPERATIONS. CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN DURING DESIGN STAGE THAT REQUIRE ADDITIONAL OR MODIFIED TEMPORARY OR PERMANENT BMP'S SHALL BE APPROVED BY THE ENGINEER.
4. TRENCH DEWATERING OR DEWATERING GROUND WATER WHICH CONTAINS SEDIMENT SHALL PASS THROUGH AN EFFECTIVE SEDIMENT CONTROL DEVICE. THIS MAY INCLUDE DEWATERING INTO SUMP PIT, FILTER BAG, OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATER SHALL NOT BE DISCHARGED TO STREAMS OR THE STORM SEWER SYSTEM. SEE ENVIRONMENTAL GUIDELINES AND REQUIREMENTS FOR ADDITIONAL STORAGE, TESTING, AND DISPOSAL REQUIREMENTS PRIOR TO DISCHARGING/RELEASING DEWATERING FLOWS.
5. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ON-SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL..
6. THESE NOTES AND DRAWINGS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL.
7. ADDITIONAL EROSION CONTROL BMP'S MAY BE MANDATED BY THE GOVERNING AGENCY AT ANY TIME DURING THIS PROJECT AS UNFORESEEN SITUATIONS MAY ARISE THAT WARRANT FURTHER EROSION AND SEDIMENT CONTROL PRACTICES.

OFF-SITE TRACKING:

1. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL INGRESS AND EGRESS LOCATIONS TO ELIMINATE OFF-SITE VEHICLE TRACKING OF SEDIMENTS. SEDIMENTS SHALL BE REMOVED FROM ROADWAYS AT LEAST DAILY, OR MORE OFTEN IF REQUESTED BY THE OWNER OR ENGINEER.

PROHIBITED CONSTRUCTION ACTIVITIES:

THE CONTRACTOR SHALL NOT USE CONSTRUCTION METHODS, ACTIVITIES, OR OPERATIONS THAT MAY NEGATIVELY IMPACT THE NATURAL ENVIRONMENT OR THE PUBLIC HEALTH AND SAFETY. PROHIBITED CONSTRUCTION METHODS, ACTIVITIES, OR OPERATIONS INCLUDE BUT ARE NOT LIMITED TO:

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
2. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
3. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS.
4. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
5. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM.
6. REMOVAL OF TREES AND BUSHES, OR DAMAGING VEGETATION OUTSIDE THE LIMITS OF THE CONSTRUCTION AREA.
7. DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.
8. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED BY THE ENGINEER FOR SAID PURPOSES.

CONTAMINATED SOILS:

1. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LAND FILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY. (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). NOTE THAT STORM WATER RUN OFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
2. OPEN BURNING IS NOT ALLOWED.

EROSION/SEDIMENT/DUST CONTROL PRACTICES:

1. DISTURBED LAND SHALL BE TEMPORARILY STABILIZED BY SEEDING AND/OR MULCHING.
2. BACKFILL TRENCHES IMMEDIATELY AFTER EXCAVATION. SEED AND MULCH TRENCHES WITHIN TWO WEEKS AFTER TRENCHES ARE BACKFILLED.

SPILL CONTROL AND CLEANUP:

1. ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS THAT ARE CLEARLY LABELED. PREFERABLY, THE CONTAINERS WILL BE STORED IN A COVERED TRUCK OR TRAILER THAT PROVIDES SECONDARY CONTAINMENT FOR THE PRODUCTS.
2. BULK STORAGE TANKS HAVING A CAPACITY OF GREATER THAN 55 GALLONS WILL BE PROVIDED WITH SECONDARY CONTAINMENT.
3. PERSONNEL ON-SITE WILL BE MADE AWARE OF CLEANUP PROCEDURES AND THE LOCATION OF SPILL CLEANUP EQUIPMENT.
4. ALL SPILLS WILL BE CLEANED UP USING APPROPRIATE ABSORBENT MATERIALS AND EXCAVATION AS NECESSARY. CLEANUP WASTE WILL BE CHARACTERIZED AND DISPOSED OF ACCORDINGLY.

TEMPORARY SEEDING:

1. SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SEEDING AND STRAW MULCHING ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH SPECIFICATIONS OF THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL.
2. DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR A PERIOD OF TWENTY-ONE (21) DAYS OR LONGER SHALL BE STABILIZED WITH SEEDING AND STRAW MULCHING, OR OTHER APPROPRIATE MEANS, WITHIN SEVEN (7) DAYS AFTER EARTH MOVING CEASES. PERMANENT SOILS STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
3. STABILIZE AREAS WITHIN FIFTY (50) FEET OF ANY STREAM OR WETLAND WITHIN TWO (2) DAYS ON ALL INACTIVE DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR FOURTEEN (14) DAYS OR LONGER.
4. SEEDED AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED 80% COVER SHALL BE RESEEDING AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH STRAW MULCH WHEN SUB-CONDITIONS PROHIBIT SEEDING.

EXCAVATION, BACKFILL, AND COMPACTION

1. ALL UTILITY LINES (i.e. STORM SEWERS, STORM LATERALS, SANITARY LATERALS, WATER MAINS, WATER SERVICE CONNECTIONS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OBT CONDUITS, CABLE T.V. LINES) CROSSING THE PROPOSED IMPROVEMENTS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF PAVEMENT. WORK WILL NOT BEGIN UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.

ENVIRONMENTAL PROTECTION - PROHIBITED CONSTRUCTION ACTIVITIES

1. LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.
2. INDISCRIMINATE, ARBITRARY OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR OUTSIDE THE EASEMENT LIMITS.
3. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, STREAM CORRIDORS, WETLANDS OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
4. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, WETLANDS, SURFACE WATERS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
5. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.
6. DAMAGING ANY VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
7. DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS OR AT UNSPECIFIED LOCATIONS.
8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
9. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.
10. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND THE CONSENT OF THE ENGINEER.
11. OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 A.M. AND 4:30 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.
12. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS:
 - BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES.
 - BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE.
 - BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.



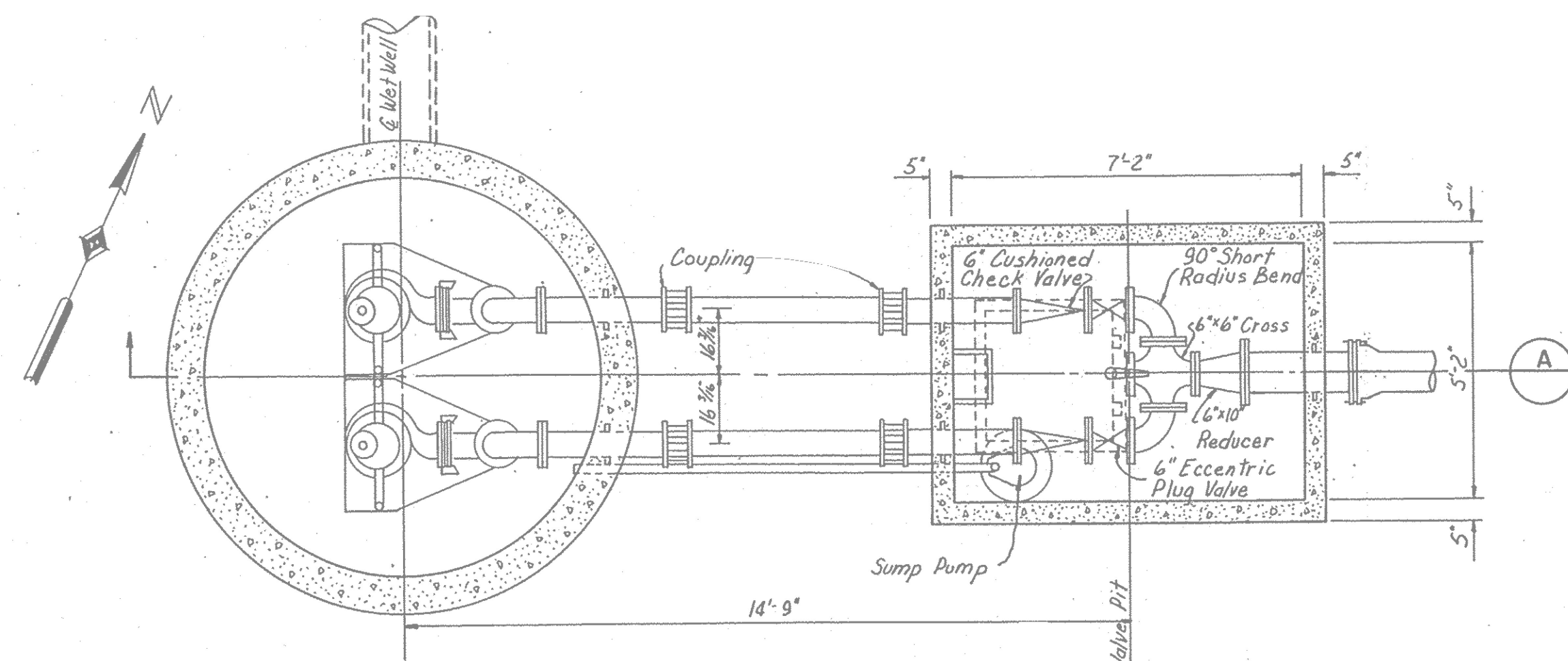
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ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO

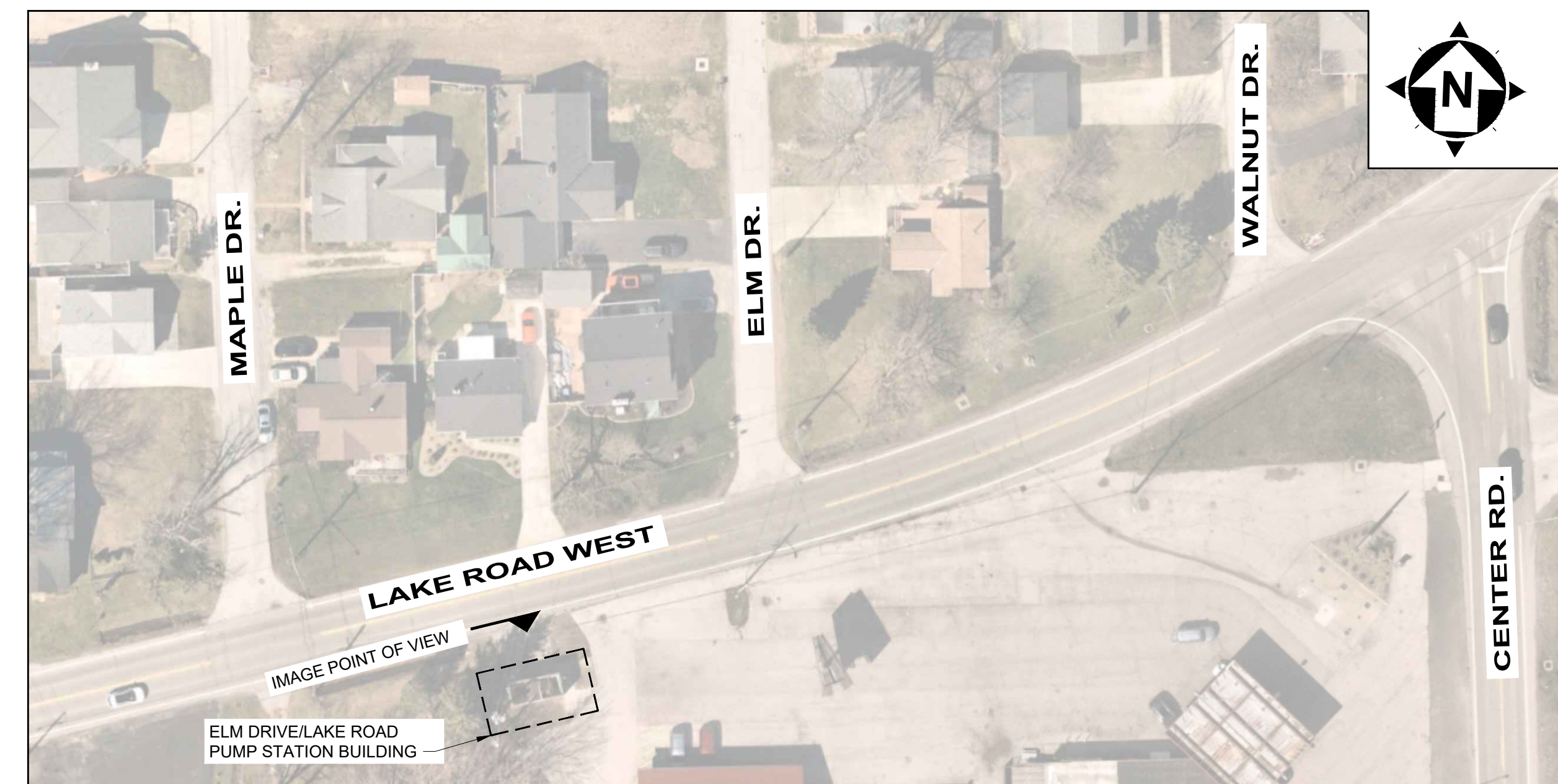
GENERAL - 00 SERIES

GENERAL NOTES

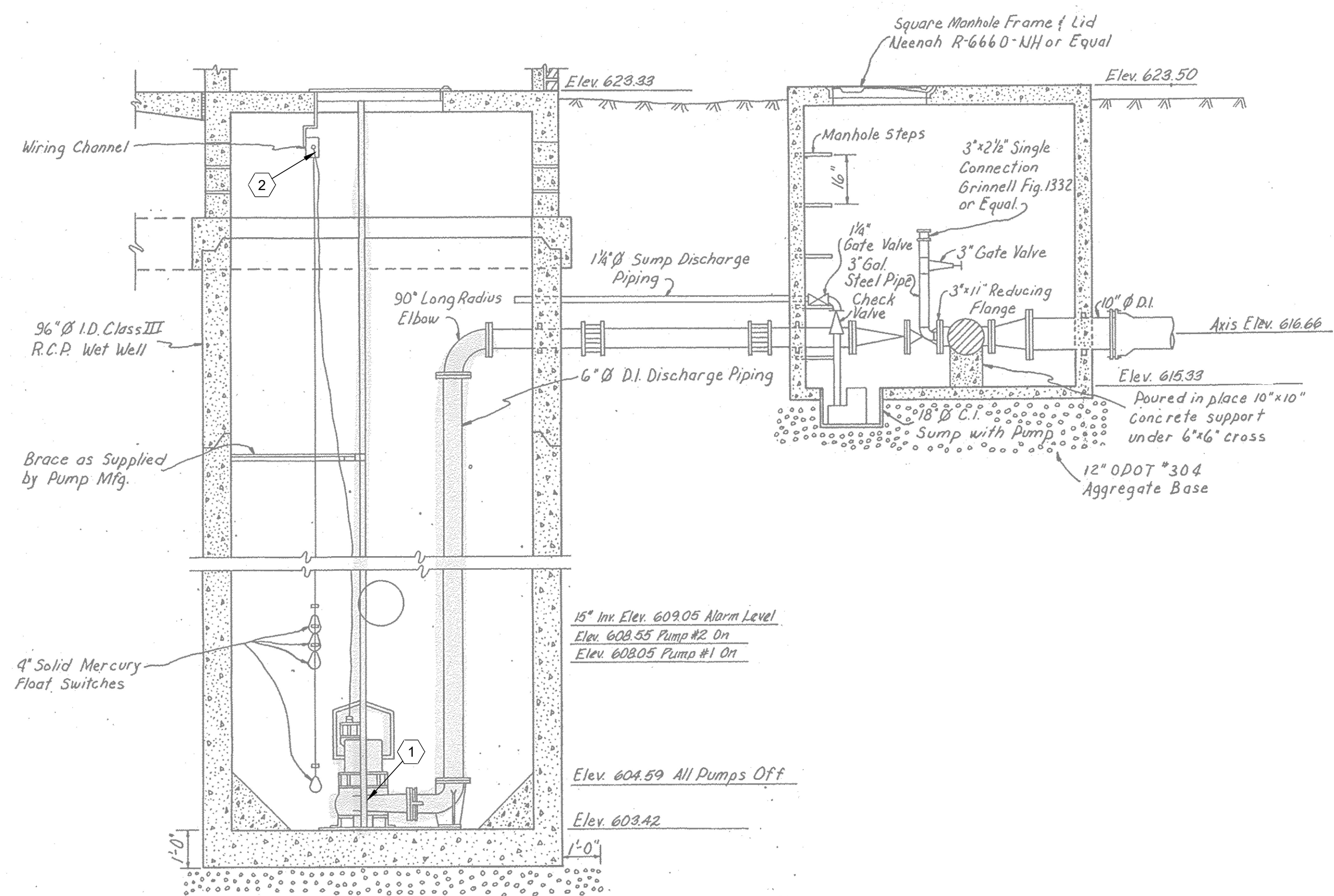
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ELM DRIVE/LAKE ROAD PUMP STATION WET WELL & VALVE VAULT PLAN DETAIL
NOT TO SCALE



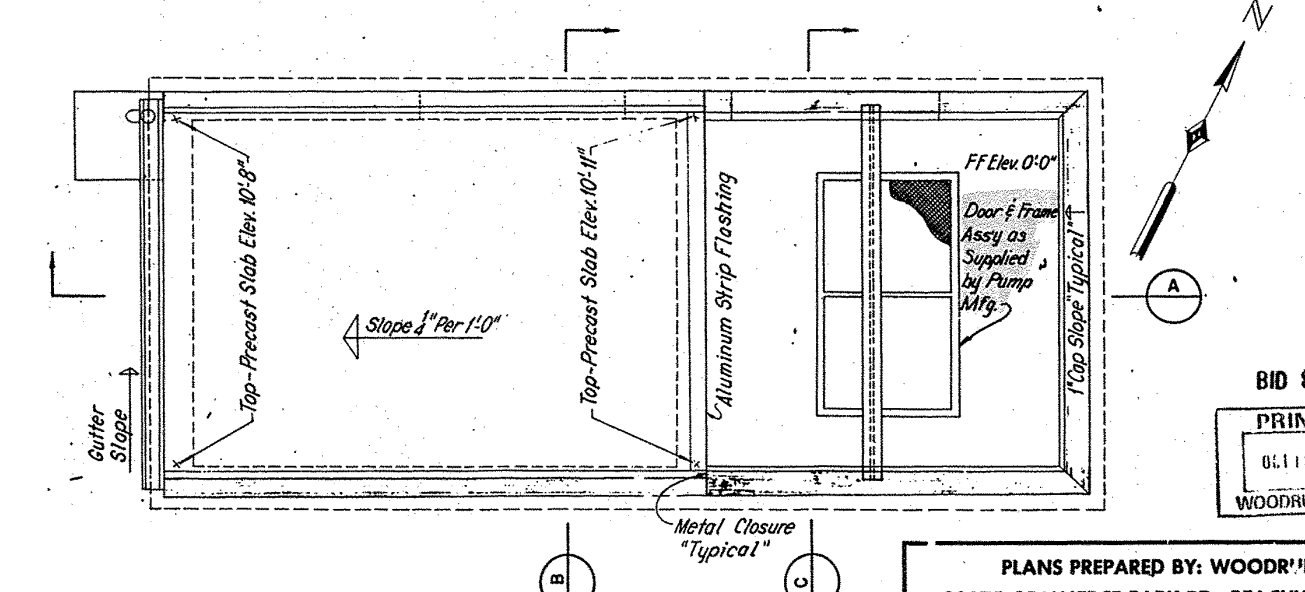
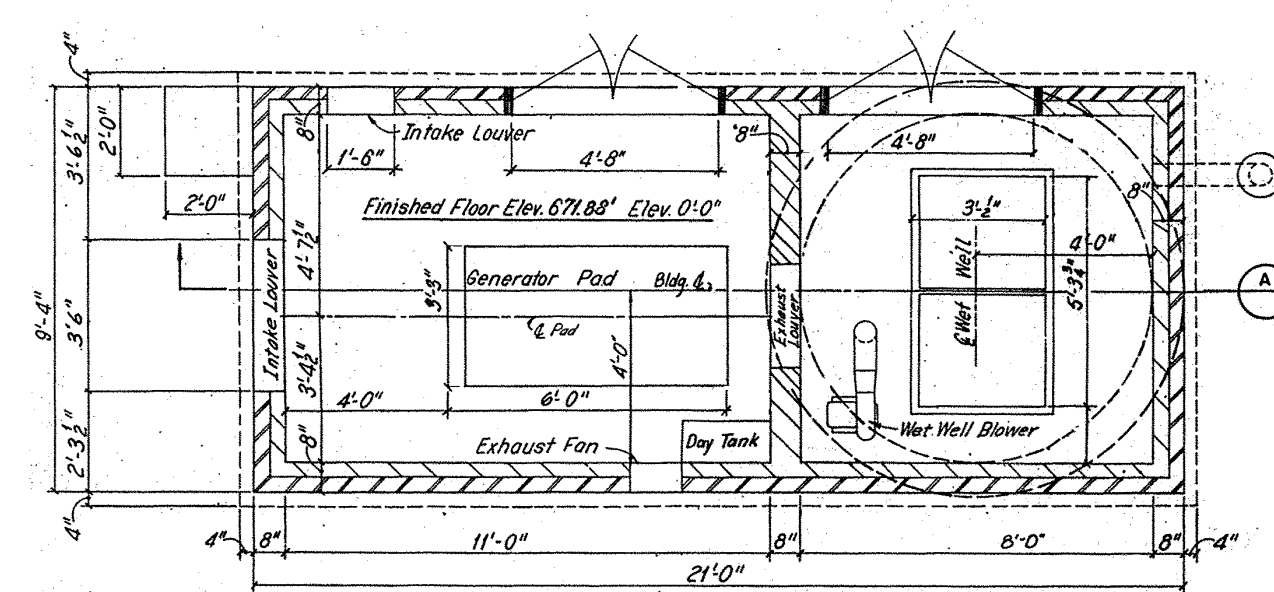
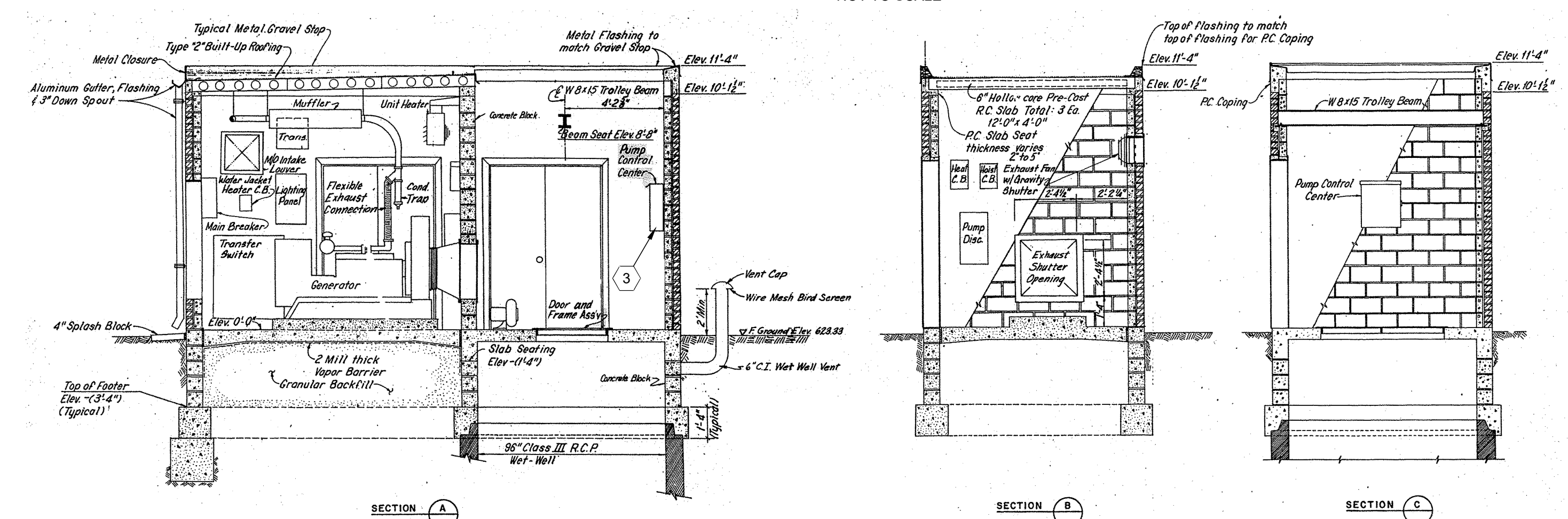
ELM DRIVE/LAKE ROAD PUMP STATION LOCATION MAP
NOT TO SCALE



ELM DRIVE/LAKE ROAD PUMP STATION WET WELL & VALVE VAULT SECTION DETAIL
NOT TO SCALE



ELM DRIVE/LAKE ROAD PUMP STATION DETAIL
NOT TO SCALE

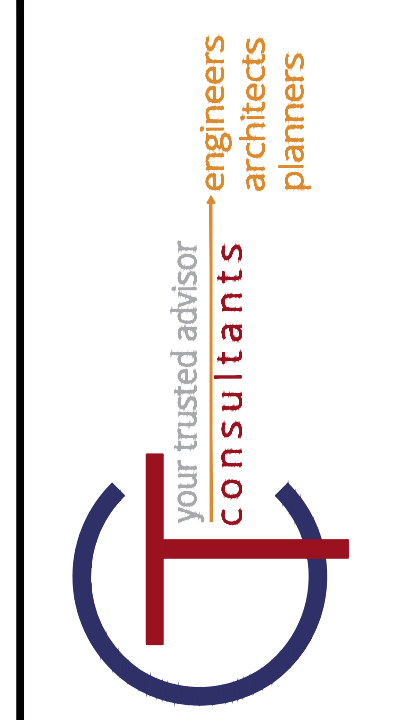
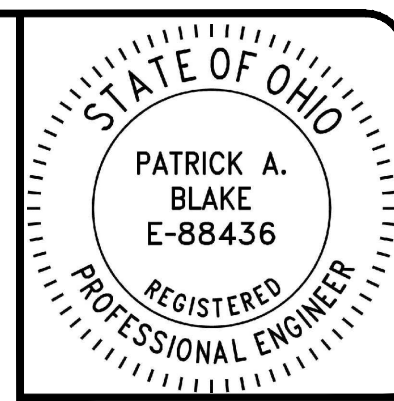


GENERAL NOTES:

1. THE EXISTING ELM DRIVE PUMP STATION CROSS SECTIONS, WET WELL AND VALVE VAULT DETAILS AND STRUCTURE DETAILS ARE PER CONSTRUCTION PLANS PREPARED BY WOODRUFF, INC., CIRCA 1984. DETAILS ARE SHOWN FOR INTENT AND MAY NOT REFLECT THE CURRENT CONDITIONS, DIMENSIONS, OR EXACT EQUIPMENT WITHIN THE STATION. THE CONTRACTOR SHALL CONFIRM CONDITIONS WITHIN THE PUMP STATION IN THE FIELD PRIOR TO START OF CONSTRUCTION.
2. EXISTING SITE AREA AROUND THE PUMP STATION STRUCTURE HAS NOT BEEN TOPOGRAPHICALLY SURVEYED. AERIAL PHOTOGRAPHY HAS BEEN COMPILED FROM NEARMAP PHOTOGRAPHY DATED MARCH 2023.
3. PER ASHTABULA COUNTY RECORDS, EXISTING PUMPS WITHIN THE STATION ARE MEYERS 4VC150M4 15 HP PUMPS, 480 VOLT MOTORS RATED AT 1750 RPM.
4. MODIFICATIONS TO THE PUMPS SHALL PERFORMED BY AN AUTHORIZED MEYERS PUMP SERVICE CENTER.
5. ASHTABULA COUNTY OWNS A BACKUP PUMP FOR THIS STATION THAT IS KEPT IN STORAGE. CONTRACTOR SHALL ENSURE MODIFICATIONS MADE TO THE PUMP ASSEMBLIES WITHIN THE PUMP STATION ARE ALSO MADE TO THE SPARE PUMP SO IT RETAINS COMPATIBILITY WITH THE PUMPS WITHIN THE STATION.

CODED NOTES:

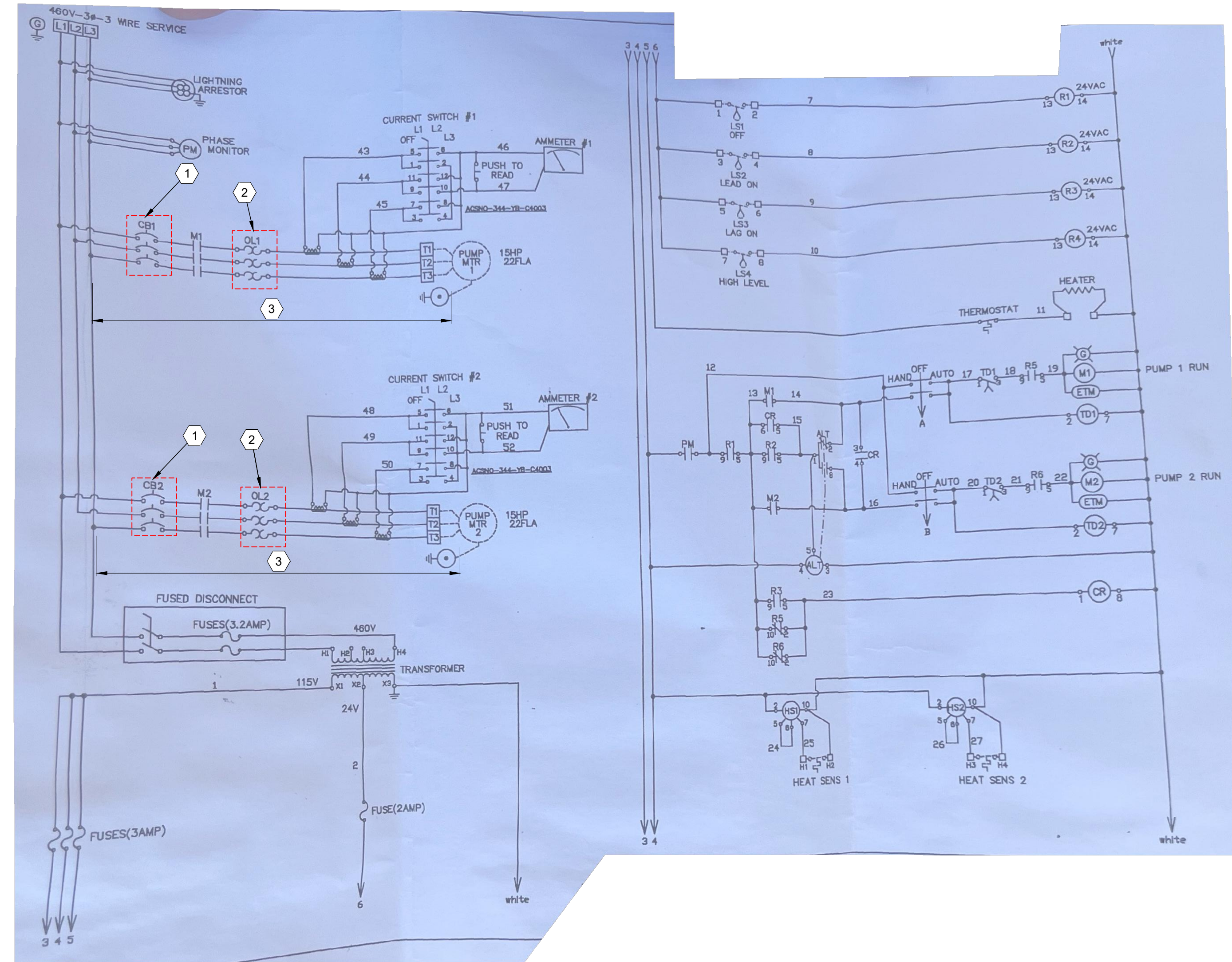
1. CONTRACTOR SHALL REPLACE THE EXISTING PUMP IMPELLERS WITH 9.25" DIAMETER IMPELLERS, AND REPLACE LOWER SEALS PER MANUFACTURER RECOMMENDATIONS. (2 WITHIN THE PUMP STATION, ONE SPARE PUMP OFF-SITE).
2. PUMP POWER CONNECTION SHALL HAVE WIRING UPGRADED FROM 10# TO 8# AWG PER MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL UPGRADE EXISTING CIRCUIT BREAKERS, OVERLOAD PROTECTION, AND CONDUCTION WIRING FROM PUMPS THROUGH THE PANEL PER MANUFACTURER RECOMMENDATIONS.



NO	DATE	REVISION

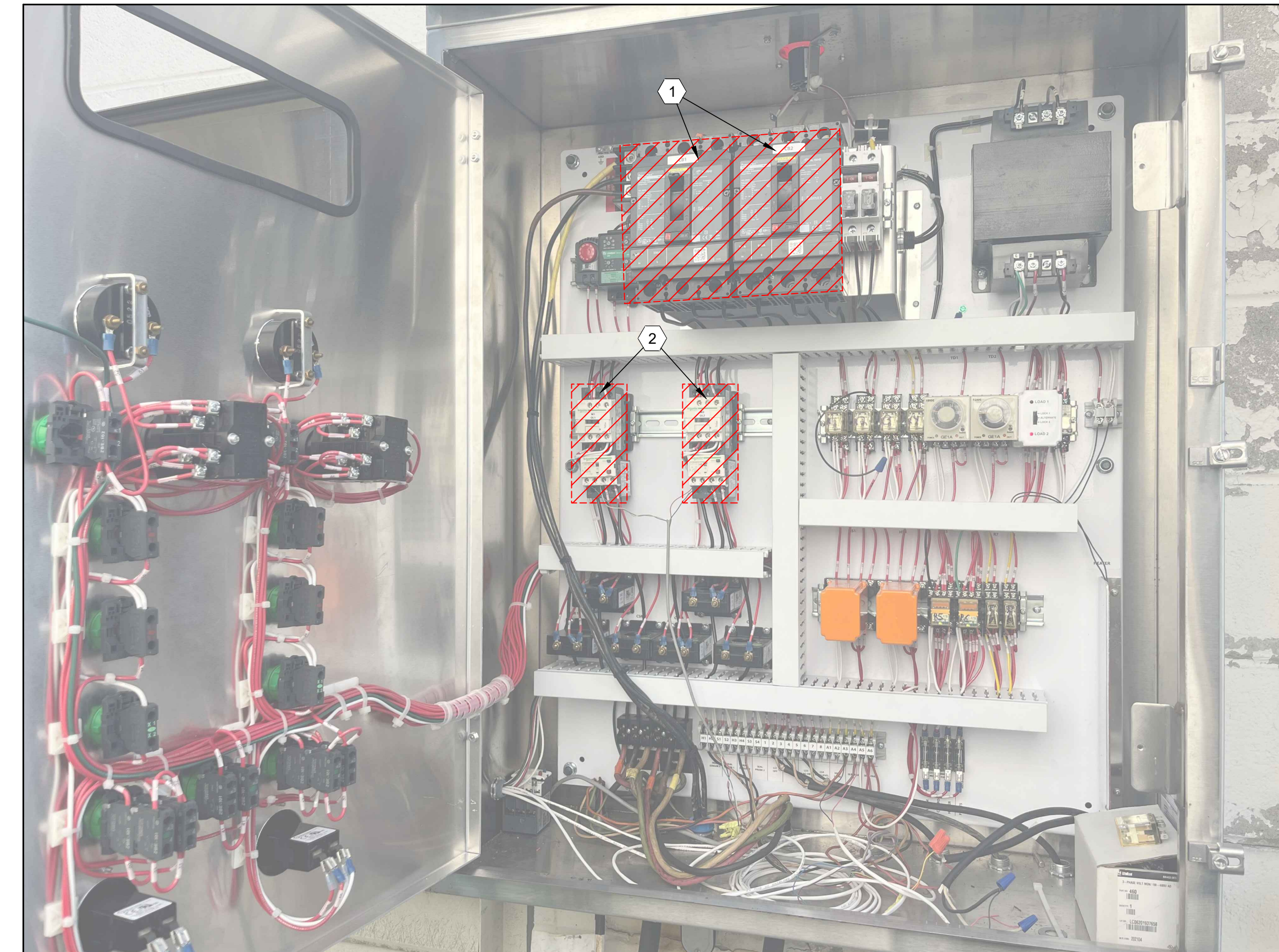
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO
ELM DRIVE P.S. - 10 SERIES
P.S. MODIFICATION PLAN

PROJECT NO:	231140
SHEET NAME:	10D-01
SHEET OF:	5 22



ELM DRIVE/LAKE ROAD P.S. LINE DIAGRAM DETAIL

NOT TO SCALE



ELM DRIVE/LAKE ROAD P.S. CONTROL PANEL DETAIL

NOT TO SCALE

GENERAL NOTES:

1. THE EXISTING ELM DRIVE PUMP STATION ELECTRICAL DIAGRAMS ARE PER RECORD PLANS PREPARED BY OHIO ELECTRIC CONTROL, INC. DATED MARCH 2021. DETAILS ARE SHOWN FOR INTENT AND MAY NOT REFLECT EXACT EQUIPMENT WITHIN THE STATION. THE CONTRACTOR SHALL CONFIRM CONDITIONS WITHIN THE PUMP STATION IN THE FIELD PRIOR TO START OF CONSTRUCTION. PROPOSED MODIFICATIONS WITHIN THE PANEL ARE BASED ON RECOMMENDATIONS FROM MANUFACTURERS. THE CONTRACTOR IS TO CONFIRM EXTENT OF MODIFICATIONS REQUIRED TO ACCOMMODATE THE UPGRADES TO THE PUMPS. ALL EQUIPMENT AND MATERIALS TO MODIFY THE PANEL ARE TO BE COORDINATED BY THE CONTRACTOR.

CODED NOTES:

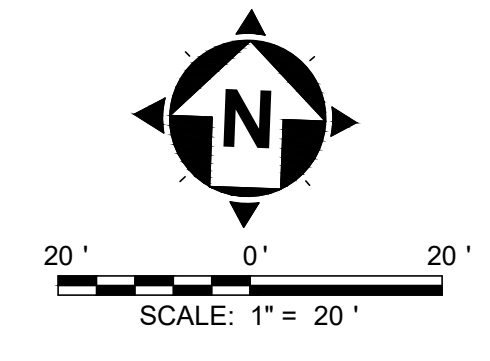
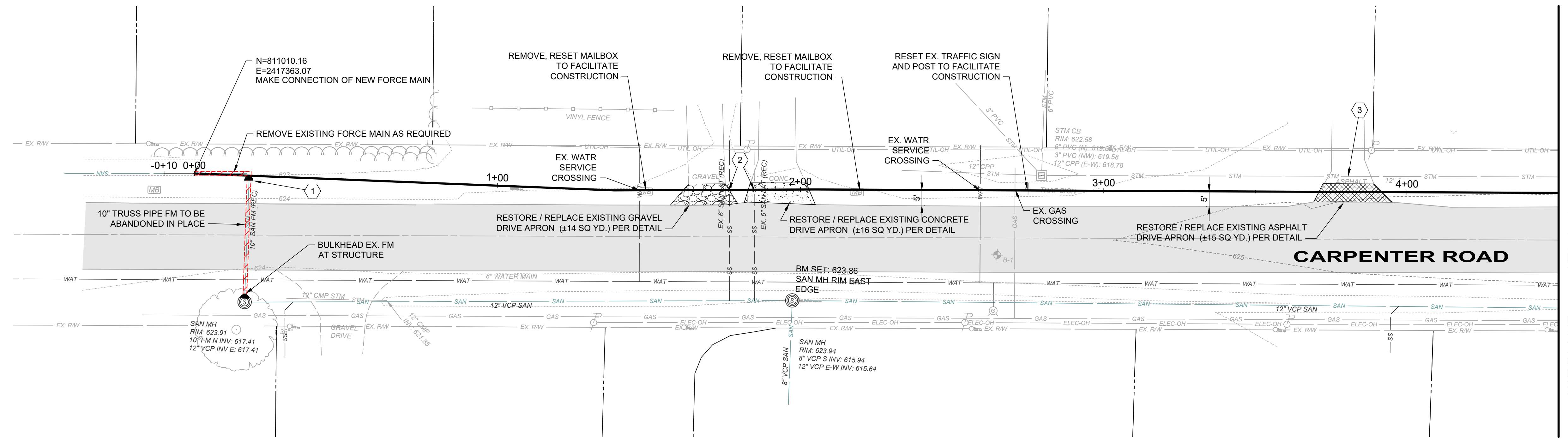
1. CONTRACTOR SHALL UPGRADE EXISTING CIRCUIT BREAKERS PER MANUFACTURER RECOMMENDATIONS.
2. CONTRACTOR SHALL UPGRADE OVERLOAD PROTECTION PER MANUFACTURER RECOMMENDATIONS.
3. CONTRACTOR SHALL UPGRADE EXISTING CONDUCTION WIRES FROM PUMPS THROUGH CIRCUIT BREAKERS FROM 10 GAUGE TO 8 GAUGE PER MANUFACTURER'S RECOMMENDATIONS.

NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 1/16/2024	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO
ELM DRIVE P.S. - 10 SERIES
ELM DRIVE LIFT STATION PANEL DETAILS

PROJECT NO:	231140
SHEET NAME	10D-02
SHEET OF	6 22

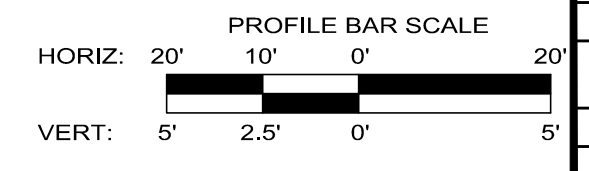
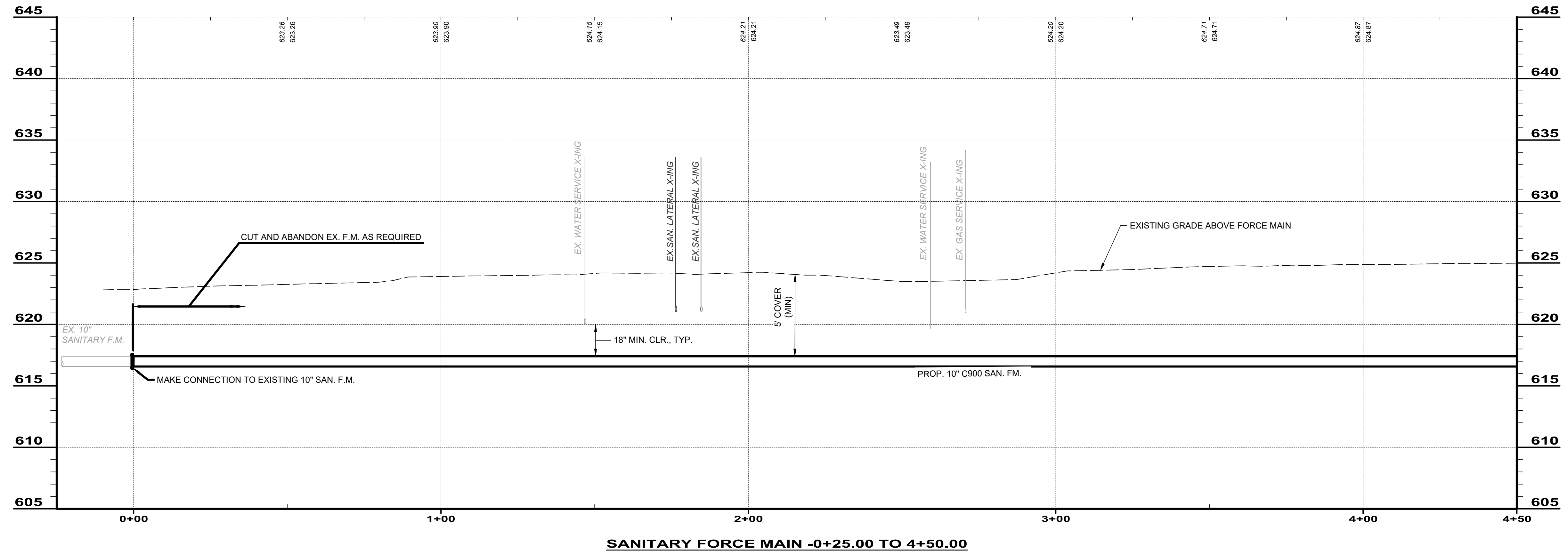


GENERAL NOTES:

- RIGHT-OF-WAY LINES AND PARCEL BOUNDARY LINES ARE PER ASHTABULA COUNTY GIS RECORDS AND ARE SHOWN FOR INTENT.
- THE EXISTING UNDERGROUND UTILITIES WERE OBTAINED FROM VARIOUS SOURCES INCLUDING, BUT NOT LIMITED TO, FIELD OBSERVATIONS (E.G. ABOVE GROUND FEATURES, FLAGGED OR PAINTED MARKED UNDERGROUND UTILITIES) AND RECORDS MADE AVAILABLE (E.G. ORIGINAL CONSTRUCTION PLANS, AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICE MAPS, GIS DATABASES, AERIAL PHOTOGRAPHY) TO CREATE A COMPOSITE DRAWING OF EXISTING CONDITIONS. ALTHOUGH GRAPHICALLY SHOWN AS ACCURATELY AS POSSIBLE FROM THE INFORMATION MADE AVAILABLE, THERE IS NO GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED, OF THE COMPLETENESS, CORRECTNESS OR ACCURACY OF SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.

CODED NOTES:

- CONTRACTOR SHALL CUT AND CAP EXISTING FORCE MAIN ONCE NEW CONNECTION IS IN PLACE AND BULKHEAD WITHIN THE EXISTING MANHOLE STRUCTURE. FILL WITH GROUT AND ABANDON IN PLACE.
- EXISTING SANITARY LATERALS AND LOCATIONS ARE PER RECORD AS BUILT DRAWINGS DATED DECEMBER 1984. CONTRACTOR SHALL CONFIRM PRESENCE AND DEPTH OF EXISTING SANITARY SEWER LATERALS PRIOR TO START OF CONSTRUCTION AND MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN EXISTING LATERAL AND NEW FORCE MAIN EXTENSION.
- CONTRACTOR SHALL RESTORE EXISTING STORM DRIVEWAY CULVERTS IF IMPACTED FROM FORCE MAIN CONSTRUCTION.



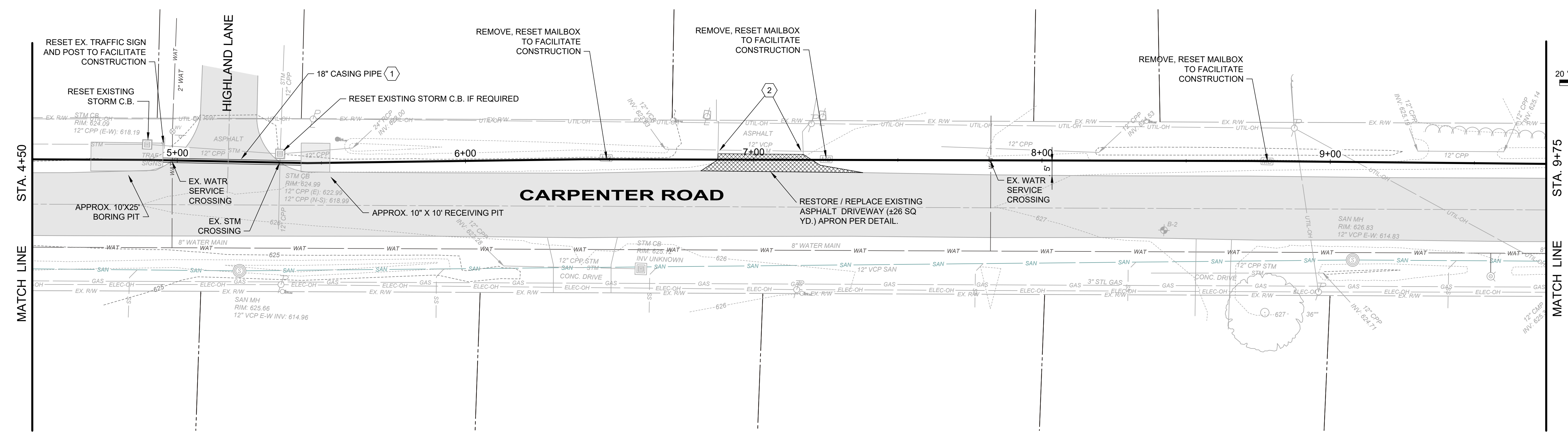
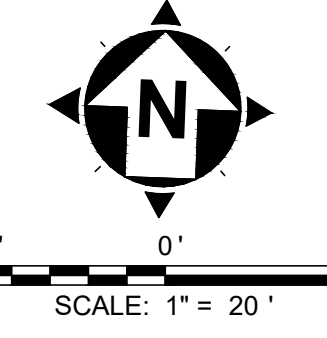
NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 01/19/24	DESIGNED BY: PAB	DRAWN BY: PAB	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT
 OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY
 SAYBROOK TOWNSHIP, OHIO

PLAN AND PROFILE - PP SERIES
 STA. 0+00 + TO STA. 4+50

PROJECT NO: 231140	
SHEET NAME PP-01	
SHEET 7	OF 22



GENERAL NOTES:

- RIGHT-OF-WAY LINES AND PARCEL BOUNDARY LINES ARE PER ASHTABULA COUNTY GIS RECORDS AND ARE SHOWN FOR INTENT.
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CODED NOTES:

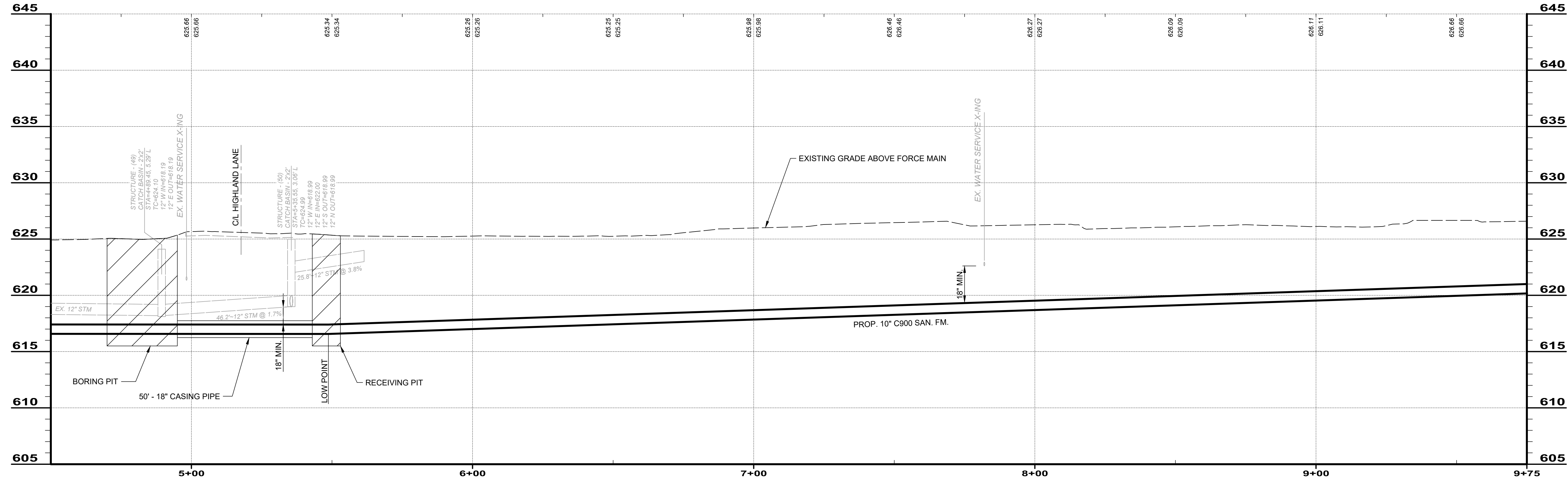
- CONTRACTOR SHALL BORE APPROXIMATELY 50-LF UNDERNEATH HIGHLAND LANE TO INSTALL NEW FORCE MAIN EXTENSION. REFER TO BORE AND CASING PIPE DETAILS.
- CONTRACTOR SHALL RESTORE EXISTING STORM DRIVEWAY APRON CULVERTS IF IMPACTED FROM FORCE MAIN CONSTRUCTION.

NO	REVISION	DATE

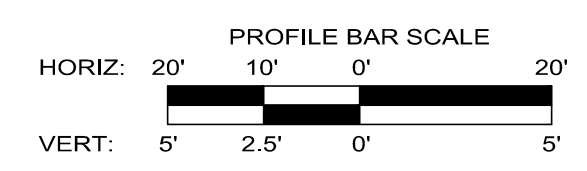
SCALE: AS SHOWN	DATE: 01/19/24	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT
 OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY
 SAYBROOK TOWNSHIP, OHIO

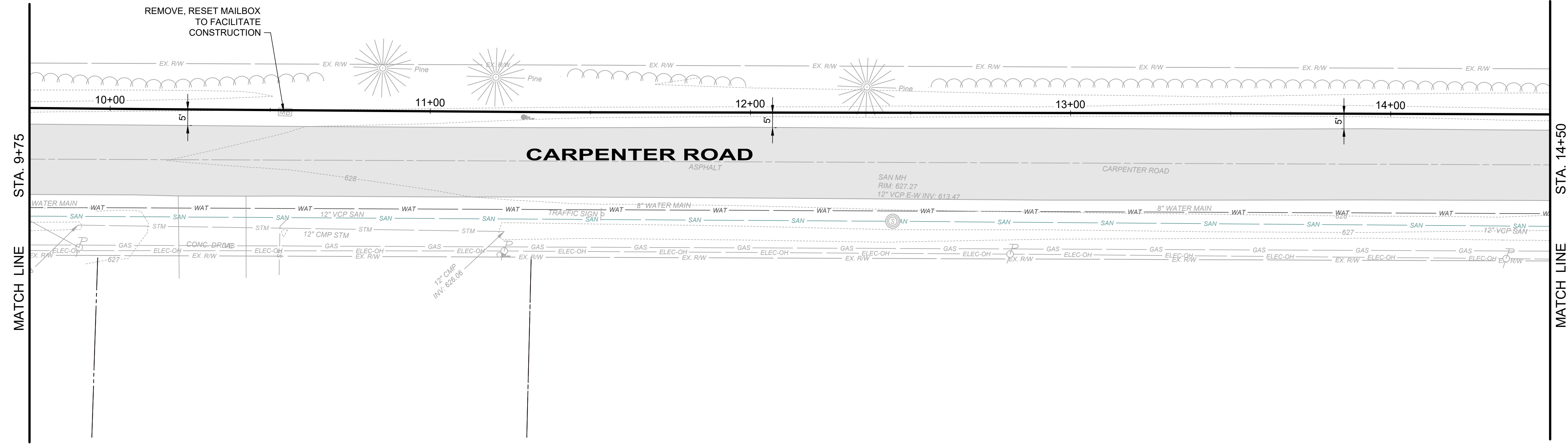
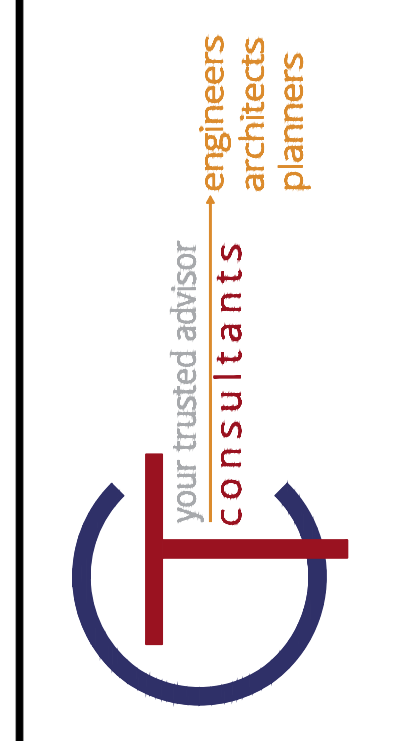
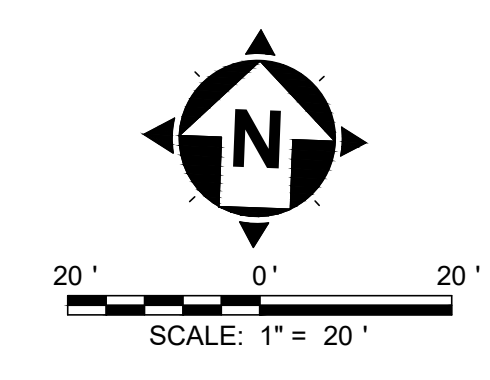
PLAN AND PROFILE - PP SERIES
STA. 4+50 + TO STA. 9+75



SANITARY FORCE MAIN 4+50.00 TO 9+75.00



PROJECT NO: 231140	
SHEET NAME PP-02	
SHEET 8	OF 22



GENERAL NOTES:

1. RIGHT-OF-WAY LINES AND PARCEL BOUNDARY LINES ARE PER ASHTABULA COUNTY GIS RECORDS AND ARE SHOWN FOR INTENT.
2. THE EXISTING UNDERGROUND UTILITIES WERE OBTAINED FROM VARIOUS SOURCES INCLUDING, BUT NOT LIMITED TO, FIELD OBSERVATIONS (E.G. ABOVE GROUND FEATURES, FLAGGED OR PAINTED MARKED UNDERGROUND UTILITIES) AND RECORDS MADE AVAILABLE (E.G. ORIGINAL CONSTRUCTION PLANS, AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICE MAPS, GIS DATABASES, AERIAL PHOTOGRAPHY) TO CREATE A COMPOSITE DRAWING OF EXISTING CONDITIONS. ALTHOUGH GRAPHICALLY SHOWN AS ACCURATELY AS POSSIBLE FROM THE INFORMATION MADE AVAILABLE, THERE IS NO GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED, OF THE COMPLETENESS, CORRECTNESS OR ACCURACY OF SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.

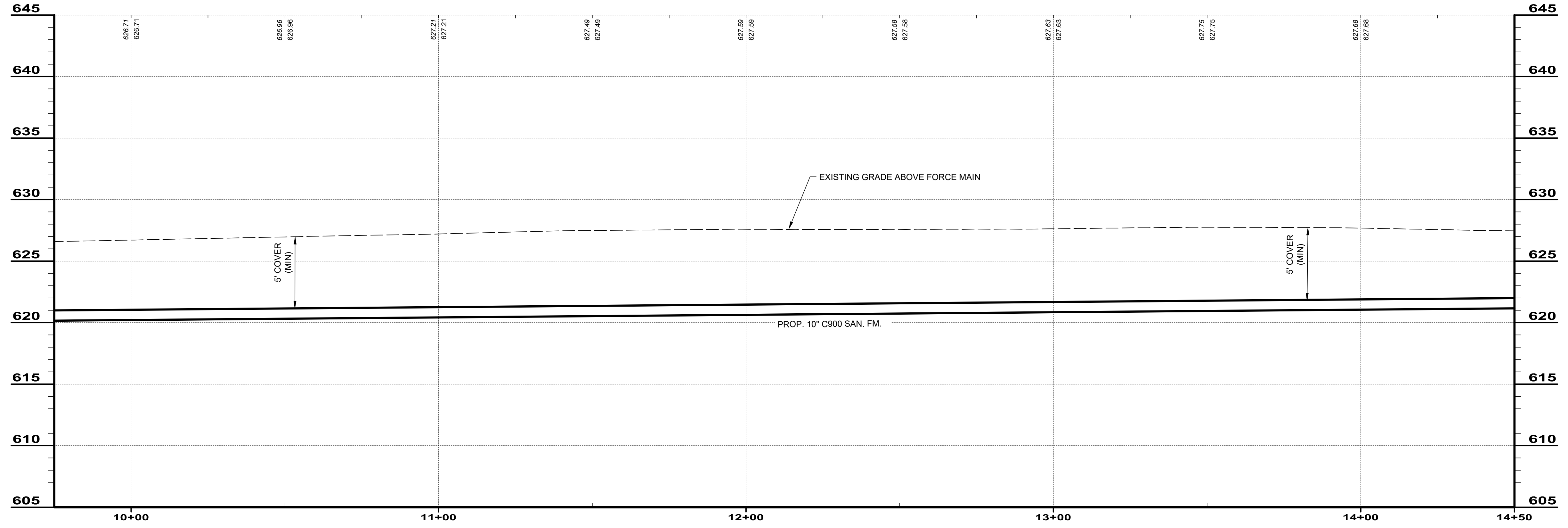
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SCALE: AS SHOWN	DATE: 01/19/24	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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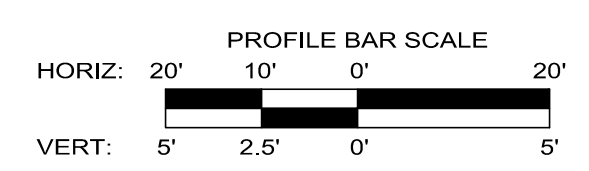
ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY
SAYBROOK TOWNSHIP, OHIO

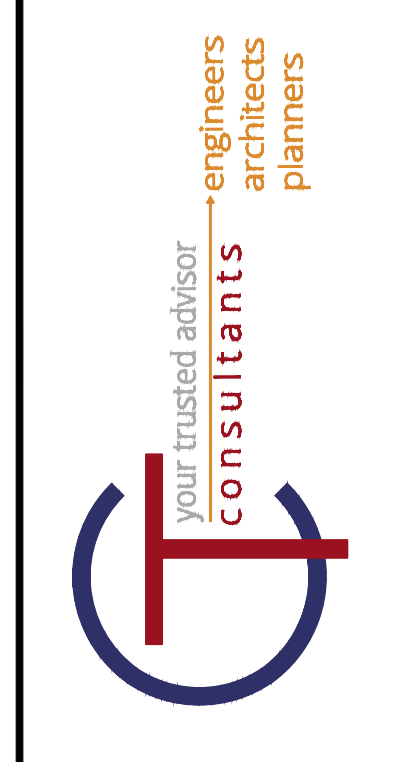
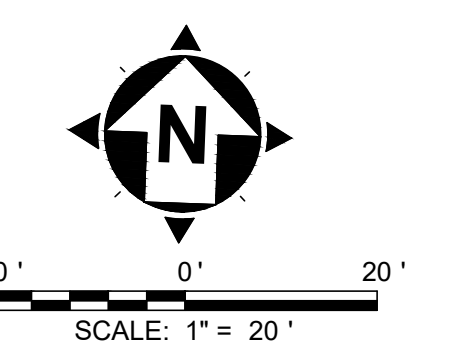
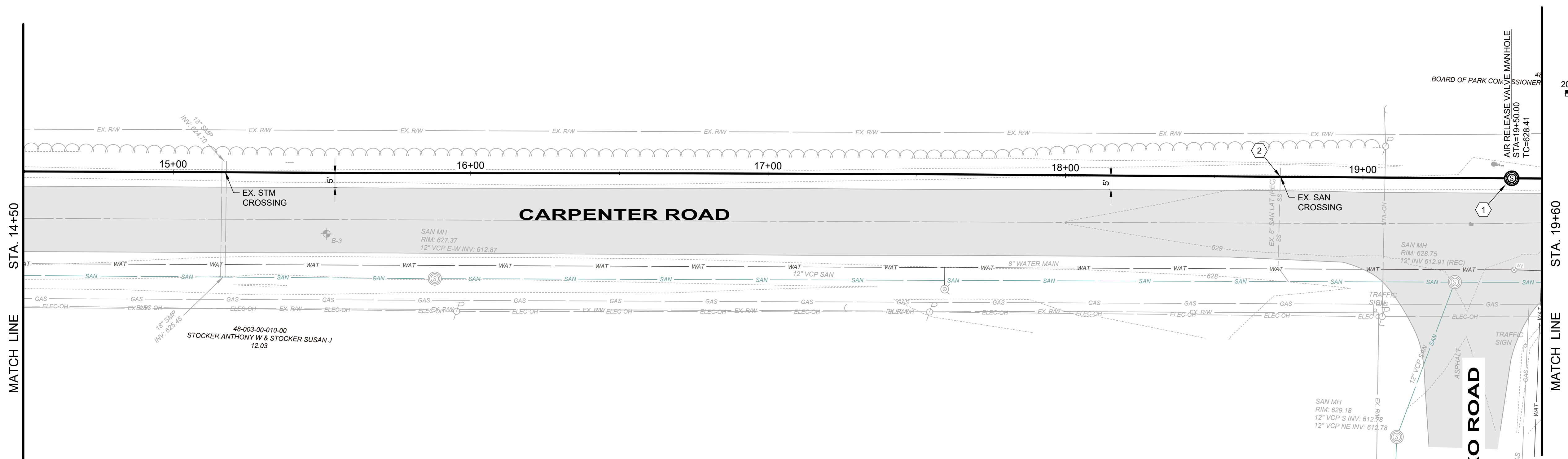
PLAN AND PROFILE - PP SERIES
STA. 9+75 + TO STA. 14+50

PROJECT NO: 231140	
SHEET NAME PP-03	
SHEET 9	OF 22



SANITARY FORCE MAIN 9+75.00 TO 14+50.00



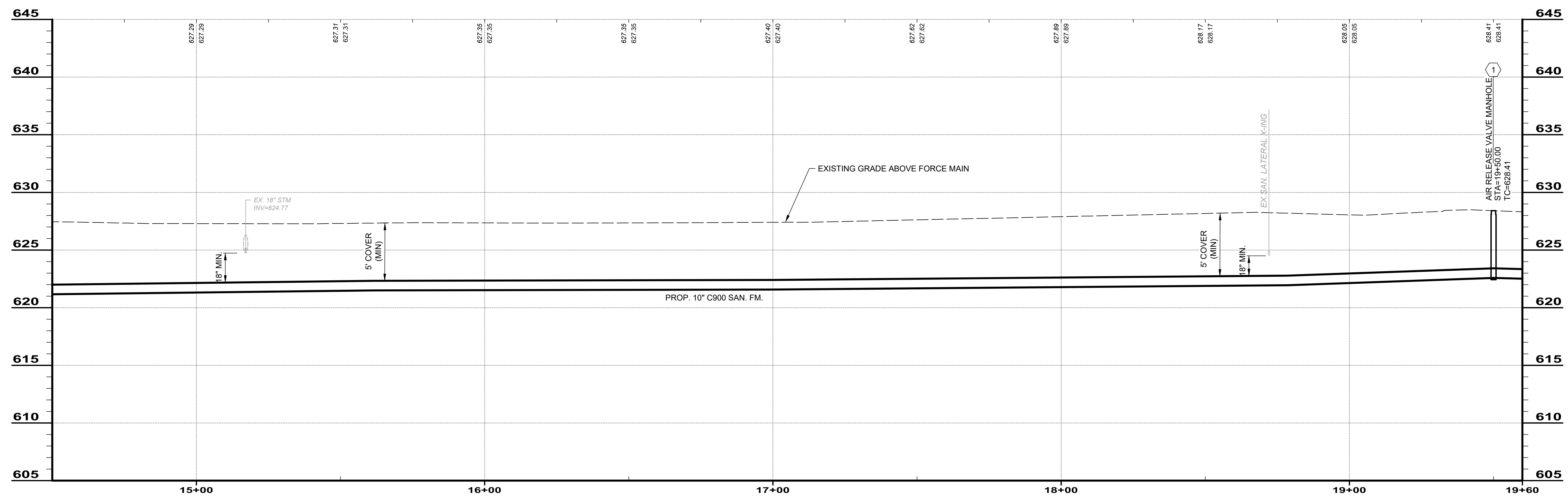


GENERAL NOTES:

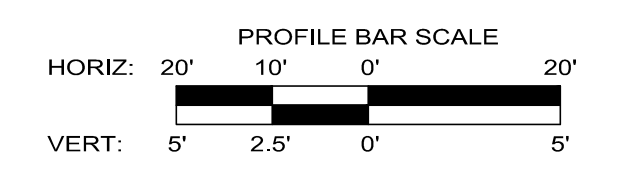
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CODED NOTES:

- CONTRACTOR SHALL INSTALL COMBINATION AIR RELIEF VALVE VAULT MANHOLE PER DETAIL.
- EXISTING SANITARY LATERALS AND LOCATIONS ARE PER RECORD AS BUILT DRAWINGS DATED DECEMBER 1984. CONTRACTOR SHALL CONFIRM PRESENCE AND DEPTH OF EXISTING SANITARY SEWER LATERALS PRIOR TO START OF CONSTRUCTION AND MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN EXISTING LATERAL AND NEW FORCE MAIN EXTENSION.



SANITARY FORCE MAIN 14+50.00 TO 19+60.00



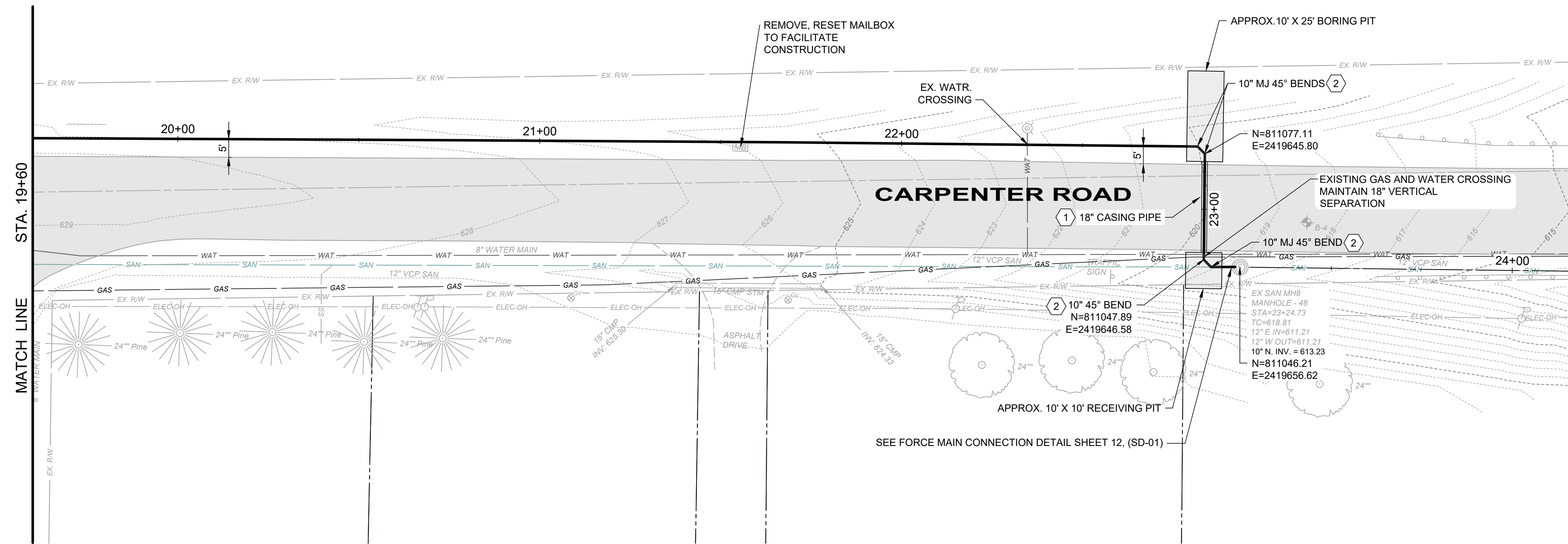
NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 01/19/24	DESIGNED BY: PAB	DRAWN BY: PAB	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY
SAYBROOK TOWNSHIP, OHIO

PLAN AND PROFILE - PP SERIES
STA. 14+50 + TO STA. 19+60

PROJECT NO: 231140	
SHEET NAME PP-04	
SHEET 10	OF 22

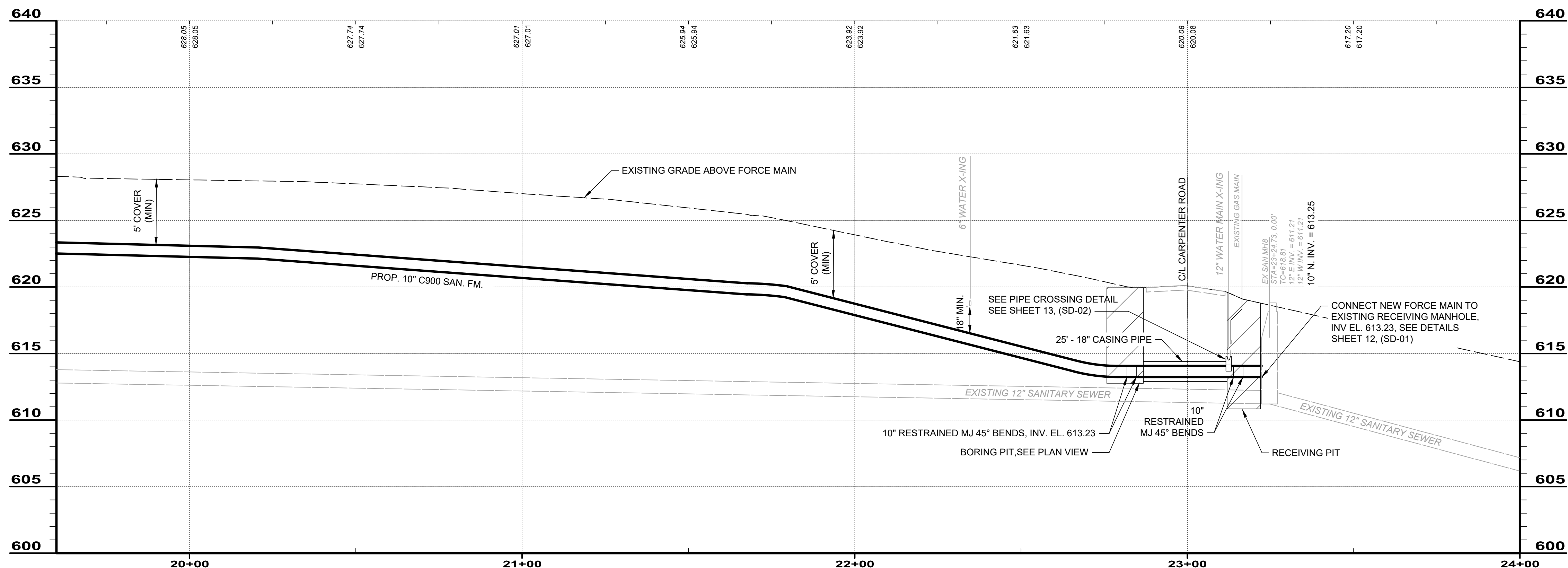


GENERAL NOTES:

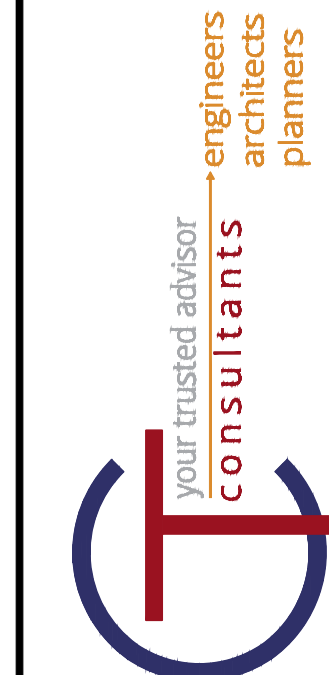
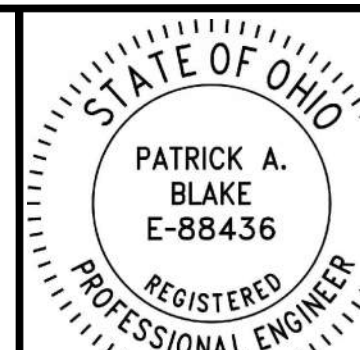
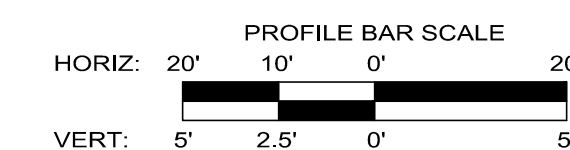
- RIGHT-OF-WAY LINES AND PARCEL BOUNDARY LINES ARE PER ASHTABULA COUNTY GIS RECORDS AND ARE SHOWN FOR INTENT.
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CODED NOTES:

- CONTRACTOR TO BORE APPROXIMATELY 25 LF UNDERNEATH CARPENTER ROAD TO INSTALL NEW FORCE MAIN EXTENSION. REFER TO BORE AND CASING PIPE DETAILS, SHEET 13, (SD-02).
- 10" 45° MJ FITTINGS WITH RESTRAINED JOINTS, EBAA IRON 19MJG900 RESTRAINT OR EQUAL.



SANITARY FORCE MAIN 19+60.00 TO 24+00.00

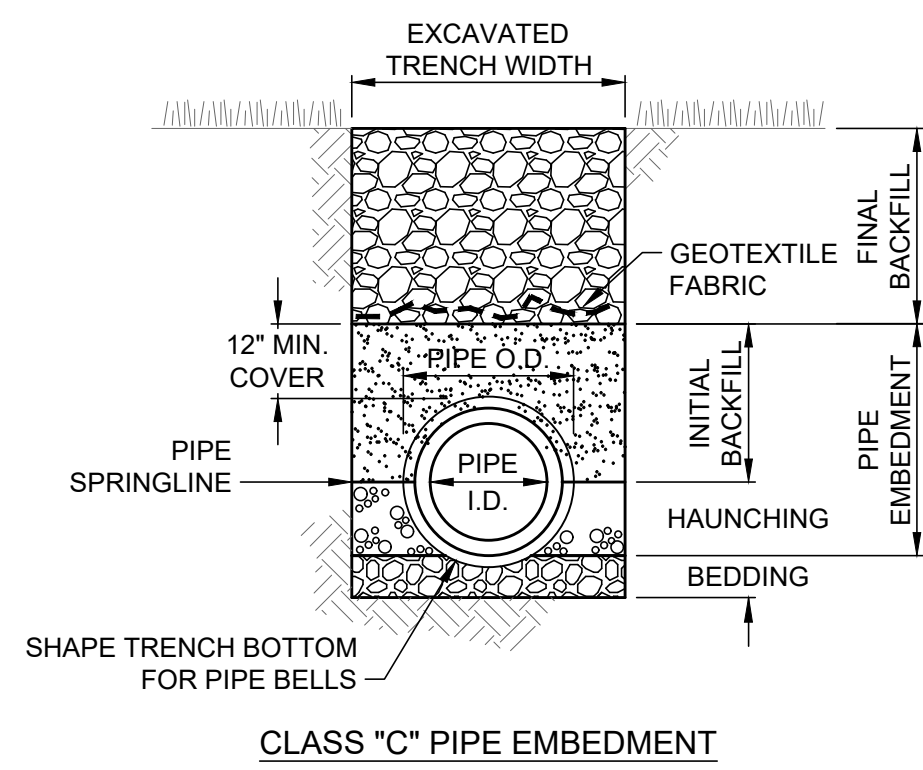


NO	REVISION	DATE

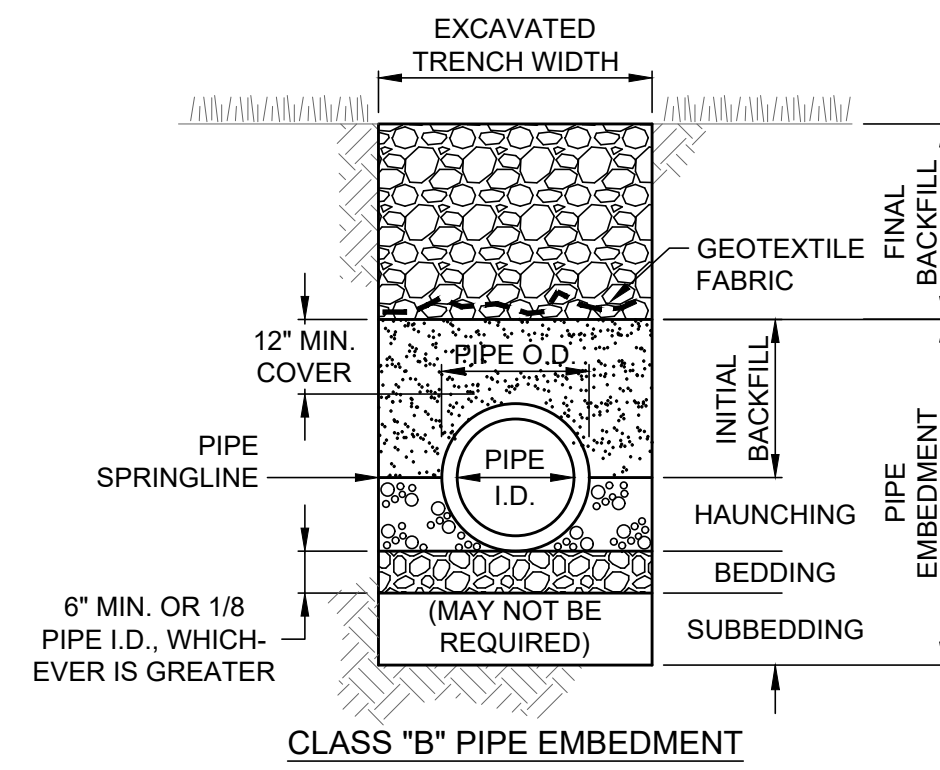
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ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO
PLAN AND PROFILE - PP SERIES
STA. 19+60 + TO STA. 24+00

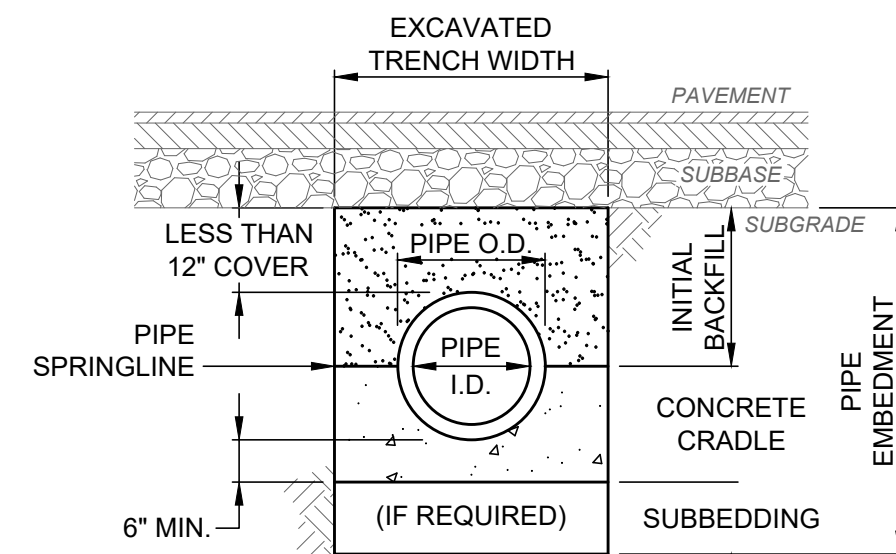
PROJECT NO:	
231140	
SHEET NAME	
PP-05	
SHEET	OF
11	22



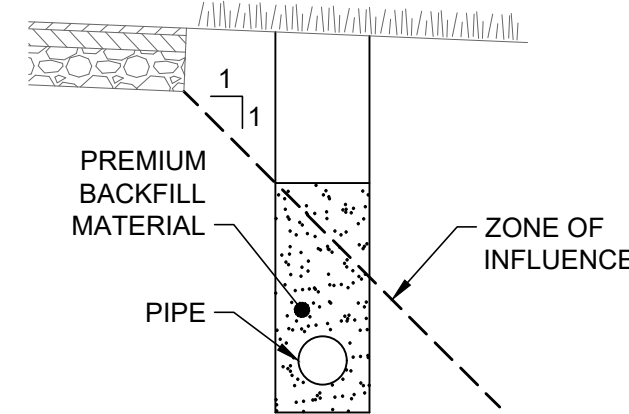
CLASS "C" PIPE EMBEDMENT



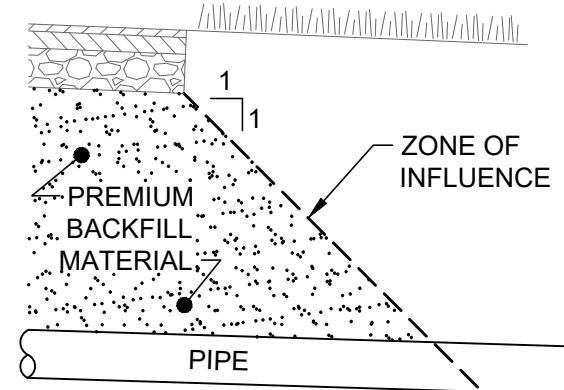
CLASS "B" PIPE EMBEDMENT



CLASS "A" PIPE EMBEDMENT



PARALLEL ZONE OF INFLUENCE



TRANSVERSE ZONE OF INFLUENCE

TRENCHING, EMBEDMENT AND BACKFILL DETAIL

SCALE: NONE

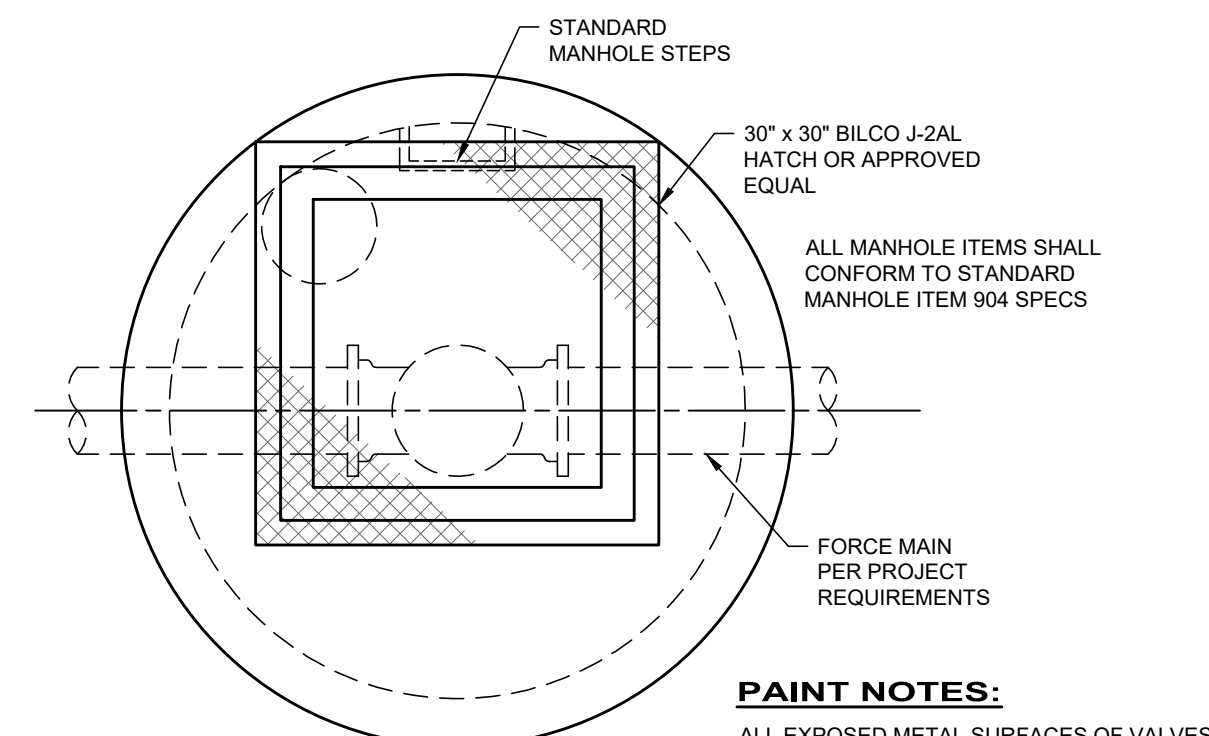
NOTES:

- EXCAVATED TRENCH WIDTH: MEASURED FROM BOTTOM OF TRENCH TO 12" OVER TOP OF PIPE (WITHIN THE PIPE EMBEDMENT), THE MIN. TRENCH WIDTH SHALL BE 9" AND THE MAX. SHALL BE:
 - O.D.+24" FOR 24" AND SMALLER I.D. PIPE
 - O.D.+30" FOR 27" THRU 72" I.D. PIPE
 - O.D.+48" FOR 84" AND LARGER I.D. PIPE
- FINAL BACKFILL: ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE SHALL BE PREMIUM BACKFILL (ODOT ITEM 304 LIMESTONE). PAVEMENT INCLUDES ROADWAY, SHOULDER AND DRIVEWAY, BUT NOT SIDEWALK. NO SLAG OR SLACKER AGGREGATES ALLOWED. IN ALL OTHER AREAS, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL.
- PIPE EMBEDMENT:

CLASS "A": SHALL BE USED FOR ALL PIPES UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12" OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS QC-1. THE INITIAL BACKFILL SHALL BE NO. 57 COURSE INTERLOCKING LIMESTONE AGGREGATE.

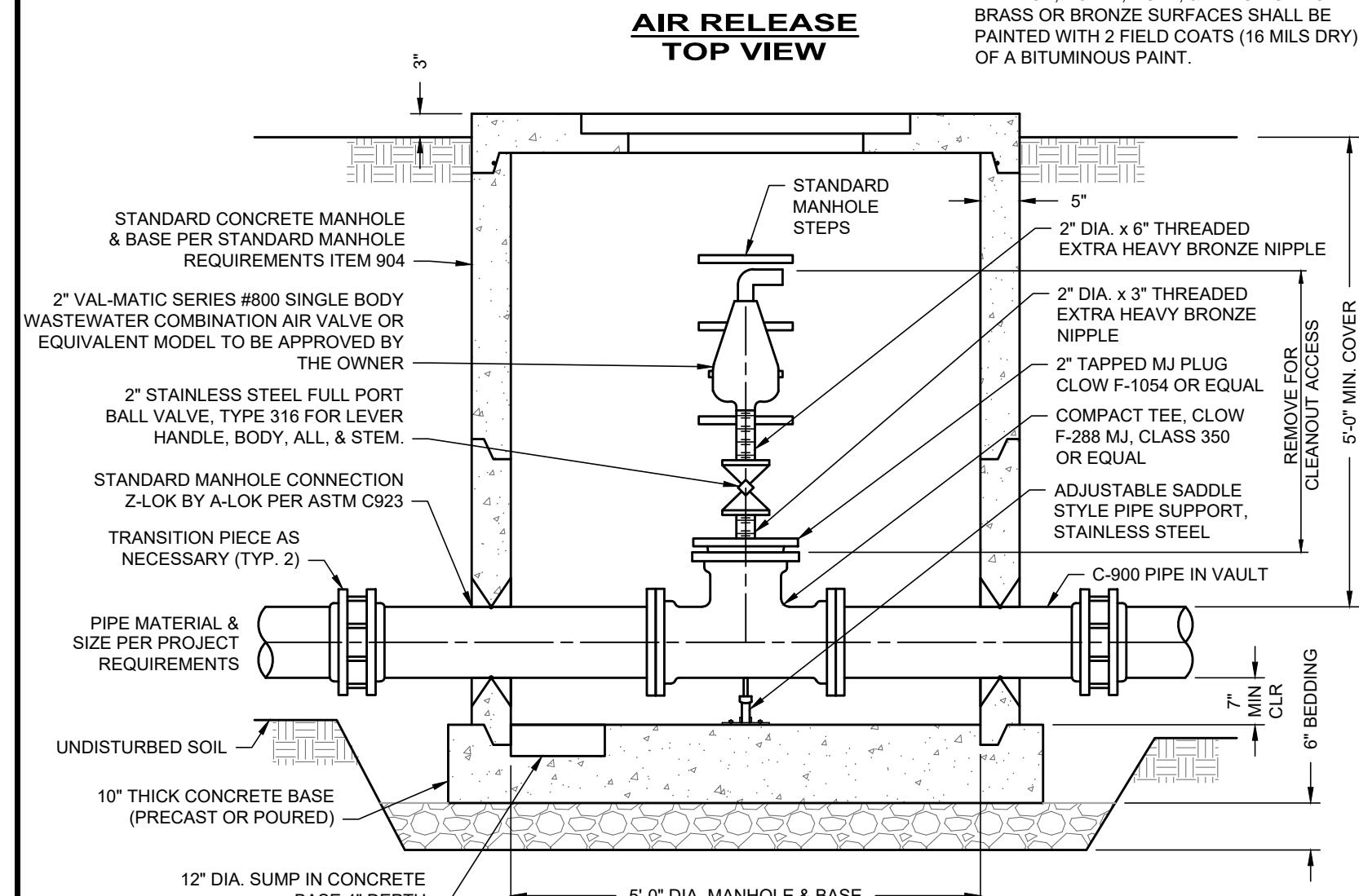
CLASS "B": SHALL BE USED FOR ALL PIPES UNLESS OTHERWISE NOTED ON THE PLANS. BEDDING AND HAUNCHING SHALL BE NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE. IN AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE. IN ALL OTHER AREAS, THE INITIAL BACKFILL MAY BE SUITABLE ON-SITE MATERIAL FOR RIGID PIPE, AND SHALL BE NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE FOR FLEXIBLE PIPE.

CLASS "C": SHALL BE USED ONLY FOR DUCTILE IRON WATER MAIN OR FORCE MAIN. THE PIPE EMBEDMENT SHALL BE NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. IN ALL OTHER AREAS, THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL. BEDDING IS NOT REQUIRED. WHERE ROCK OR SHALE IS ENCOUNTERED, BEDDING SHALL BE 6" MIN. OF NO. 8 OR 57 COURSE INTERLOCKING LIMESTONE AGGREGATE OR SAND.
- SUBBEDDING: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
- GEOTEXTILE FABRIC SHALL BE PER ODOT 712.09, TYPE A, AND INSTALLED AFTER ALL INITIAL BACKFILL.
- CLAY TRENCH DAMS SHALL BE REQUIRED FOR EACH LATERAL UPSTREAM OF EVERY MANHOLE, AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.



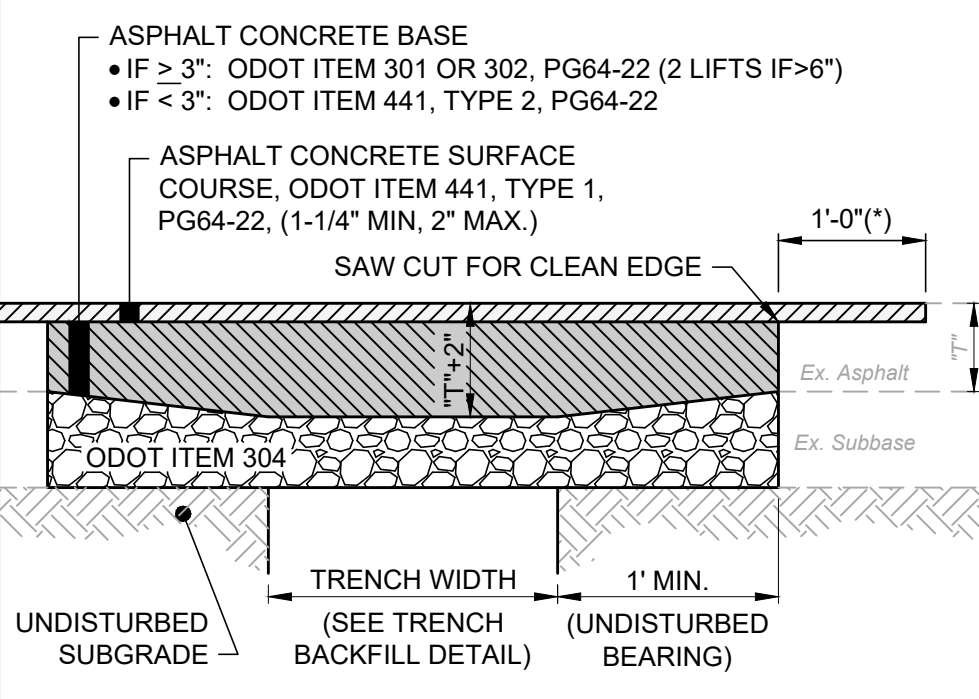
PAINT NOTES:

ALL EXPOSED METAL SURFACES OF VALVES, FITTINGS, BOLTS, NUTS, & BRACING EXCEPT BRASS OR BRONZE SURFACES SHALL BE PAINTED WITH 2 FIELD COATS (16 MILS DRY) OF A BITUMINOUS PAINT.



F.M. CLEANOUT WITH COMBINATION AIR RELEASE VALVE IN VAULT

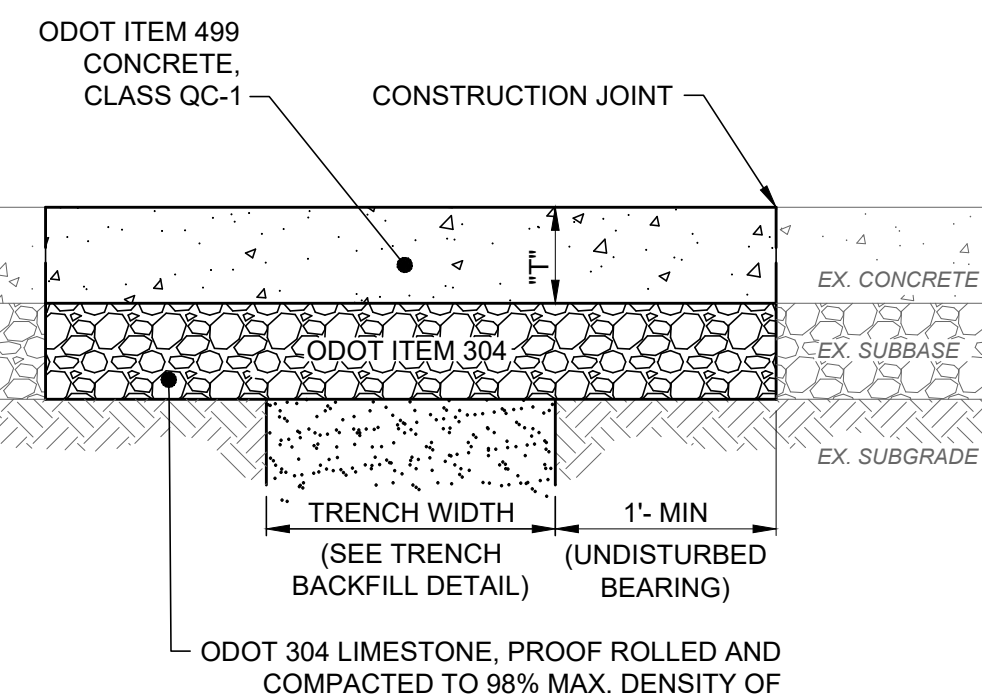
NOT TO SCALE



- NOTES:**
- TACK COAT SHALL BE APPLIED TO THE EXPOSED EX. ASPHALT BASE COURSE AND ALL SIDES OF PATCH.
 - A SEALANT SHALL BE APPLIED AROUND THE EDGE OF PATCH.

REPAIR AND REPLACEMENT OF ASPHALT APRON DETAIL

SCALE: NONE

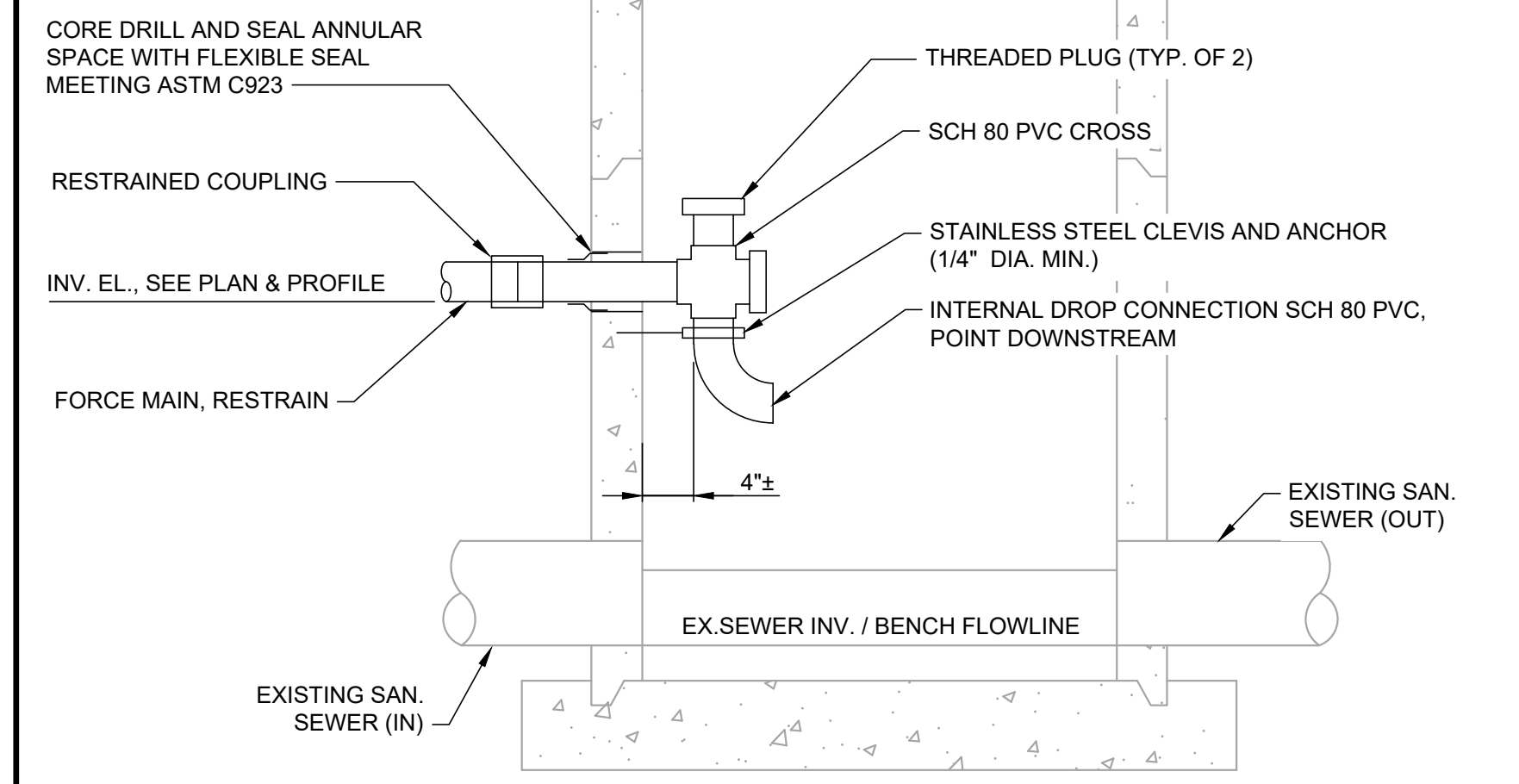


- NOTES:**
- IN NO CASE SHALL THE THICKNESS OF THE CONCRETE "T" BE LESS THAN THE EXISTING DRIVEWAY PAVEMENT THICKNESS.

REPAIR AND REPLACEMENT OF CONCRETE APRON DETAIL

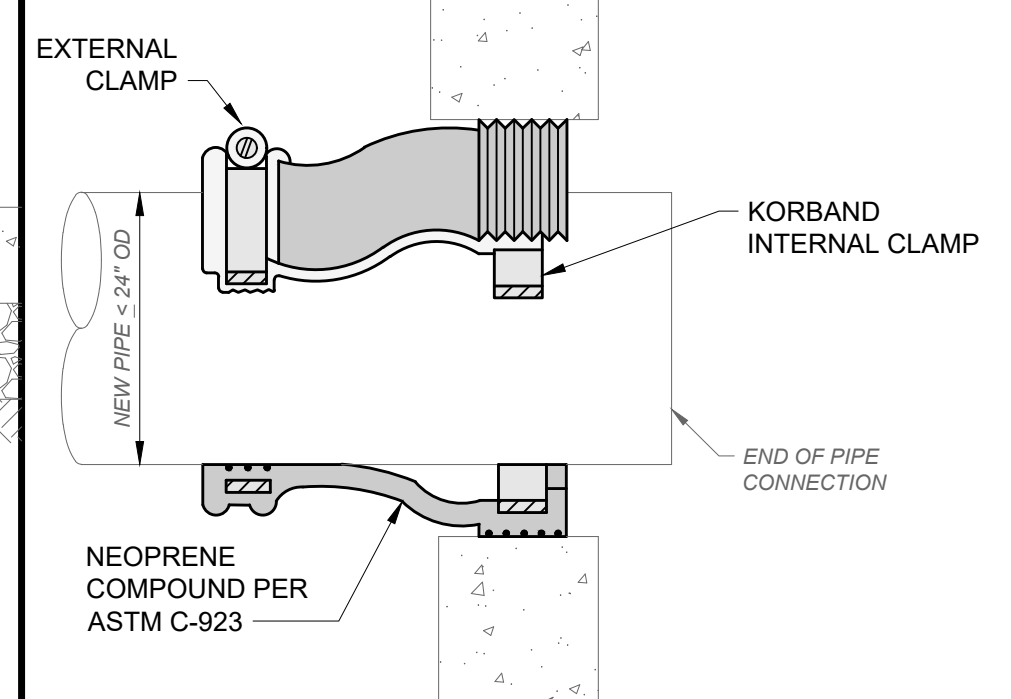
SCALE: NONE

- NOTES:**
- FORCEMAIN PENETRATION SHALL BE INSTALLED TO NOT INTERFERE WITH ACCESS TO MANHOLE STEPS, IF PRESENT IN THE EXISTING MANHOLE STRUCTURE.



FORCEMAIN DETAIL AT RECEIVING MANHOLE

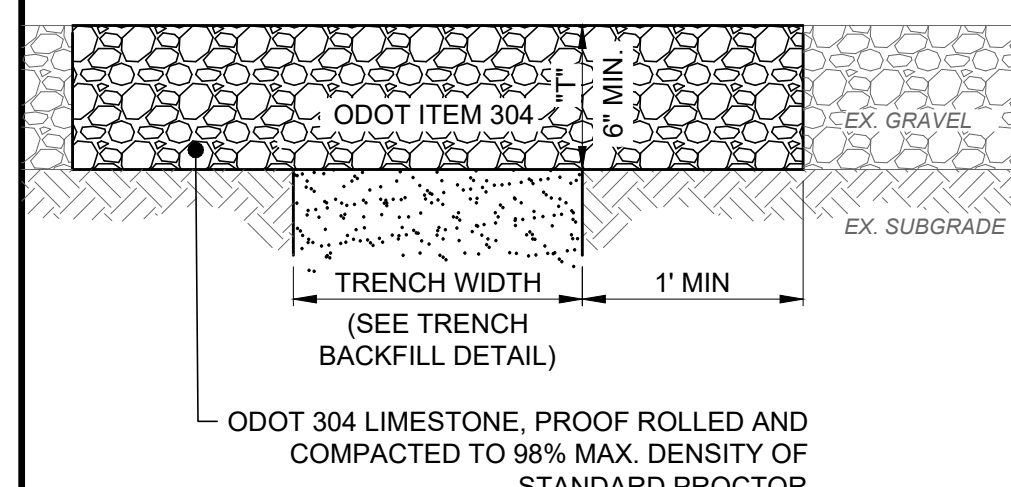
NOT TO SCALE



- NOTES:**
- MAXIMUM LENGTH OF PIPE CONNECTION FOR PVC, RCP OR VCP SHALL BE 24".

SANITARY SEWER FLEXIBLE GASKET DETAIL

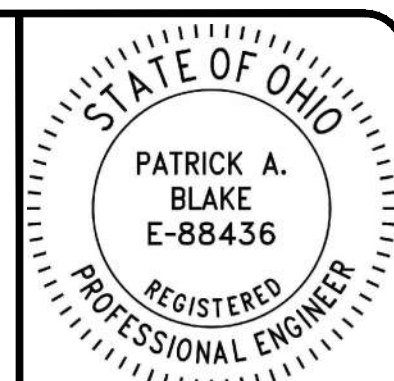
SCALE: NONE



- NOTES:**
- IN NO CASE SHALL THE THICKNESS OF THE GRAVEL "T" BE LESS THAN THE EXISTING DRIVEWAY GRAVEL THICKNESS.

REPAIR OF AGGREGATE APRON DETAIL

SCALE: NONE



NO	REVISION	DATE

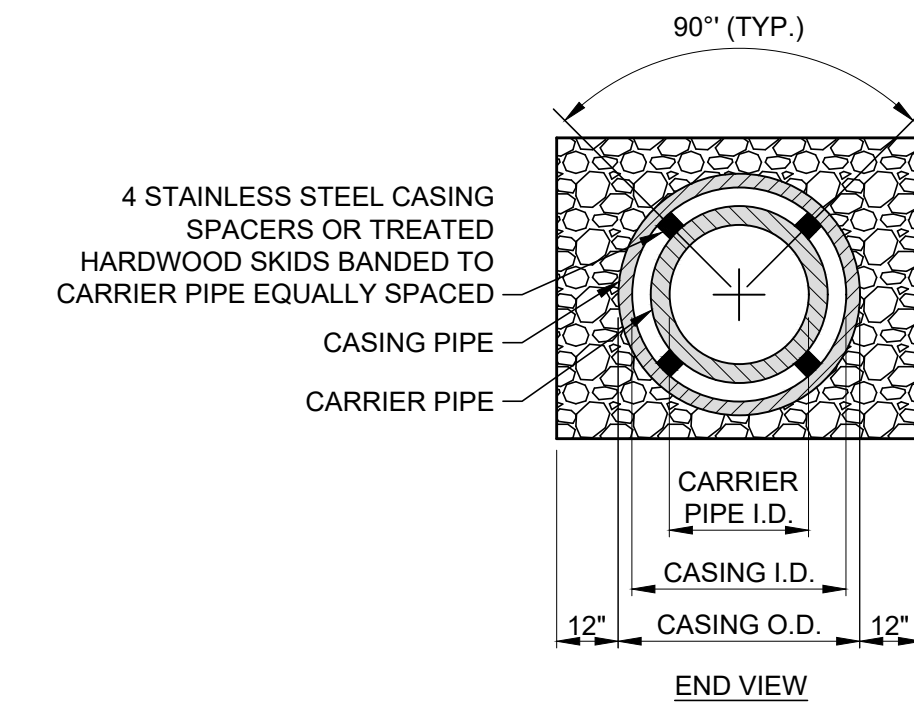
SCALE: AS SHOWN	DATE: 01/19/24	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO

STANDARD DETAILS - SD SERIES

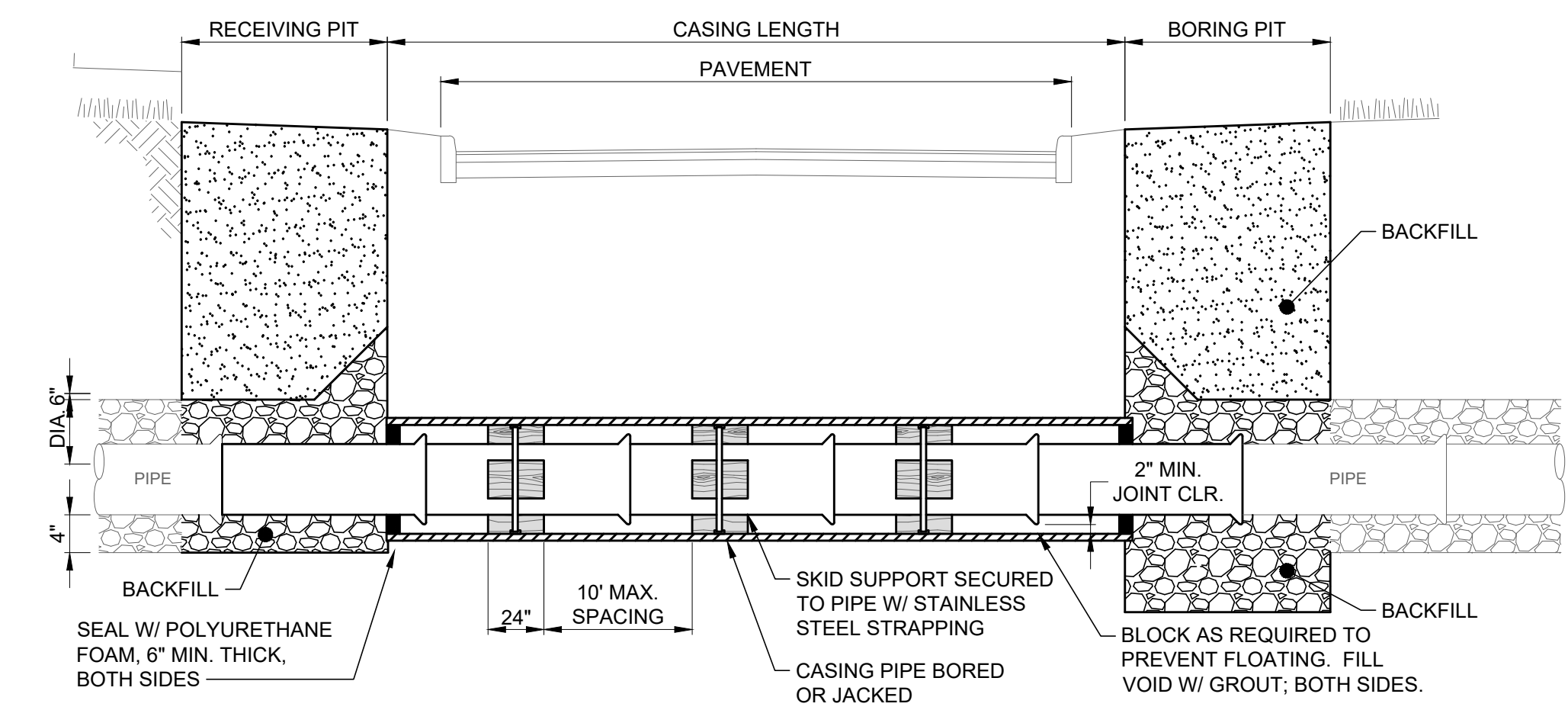
STANDARD DETAILS

PROJECT NO:	231140
SHEET NAME:	SD-01
SHEET OF:	12 22

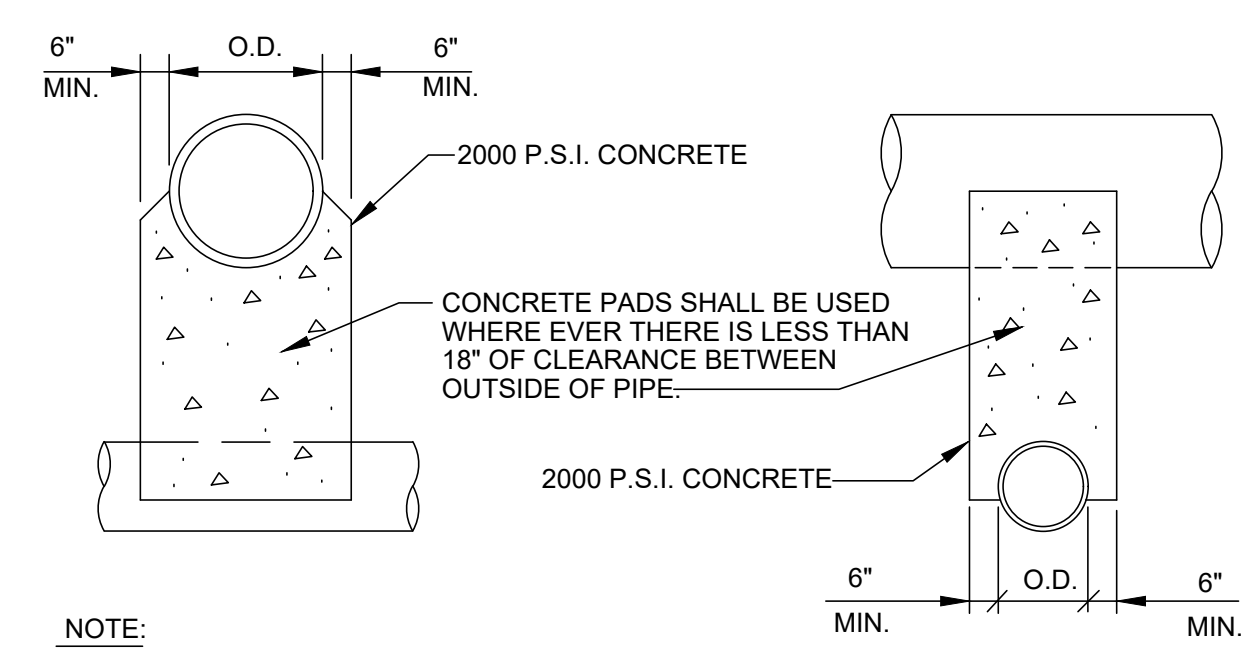


- NOTES:
- THIS DETAIL IS FOR DIMENSION CONTROL ONLY; SEE UTILITY PLAN FOR LENGTHS, CONFIGURATION AND PIPE SIZES.
 - CASING PIPE SHALL BE A MINIMUM OF SCHEDULE 40 STEEL.

CARRIER PIPE I.D.	CASING PIPE I.D.
4"	8"
6"	10"
8"	16"
12"	20"
24"	36"
30"	42"



BORED CROSSING WITH CASING DETAIL
SCALE: NONE



NOTE:
UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHERE TWO PIPES (SEWER & WATER) CROSS EACH OTHER, A CONCRETE PAD AND CRADLE SEPARATOR SHALL BE PLACED BETWEEN THEM AS INDICATED ABOVE. WHERE PERMISSION IS GRANTED TO OMIT THE CONCRETE PADS, GRANULAR BACKFILL SHALL BE TAMPED IN 6" LAYERS AROUND BOTH PIPES. SUCH TAMPED BACKFILL SHALL BE CONTINUOUS FROM THE CRADLE OF THE LOWER PIPE TO THE TOP OF THE UPPER PIPE AND AT THE BOTTOM SHALL EXTEND IN BOTH DIRECTIONS, FOR THE FULL WIDTH OF THE TRENCH.

PIPE CROSSING DETAIL
11/88 SD-2-16



NO	REVISION	DATE

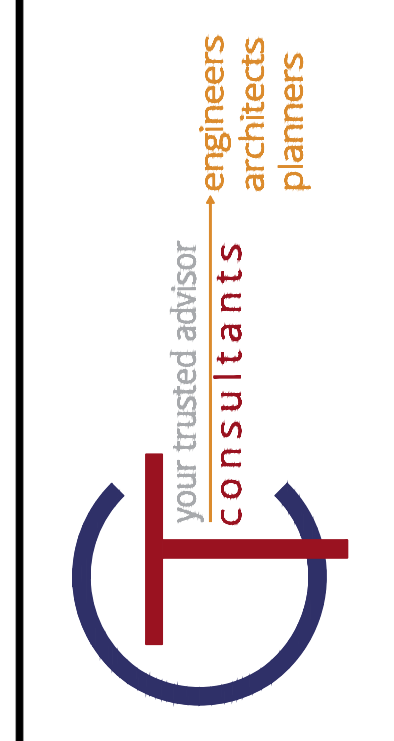
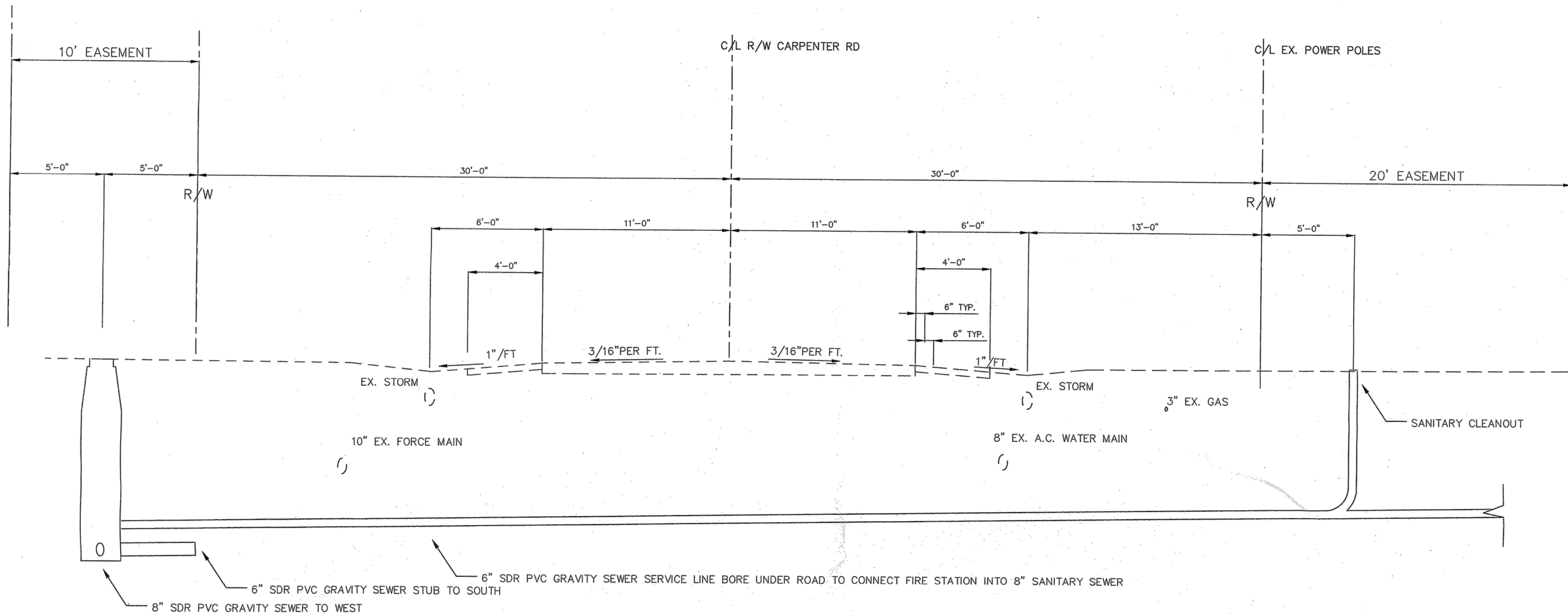
SCALE: AS SHOWN	DATE: 01/19/24	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO

STANDARD DETAILS - SD SERIES

STANDARD DETAILS

PROJECT NO:	
231140	
SHEET NAME	
SD-02	
SHEET	OF
13	22



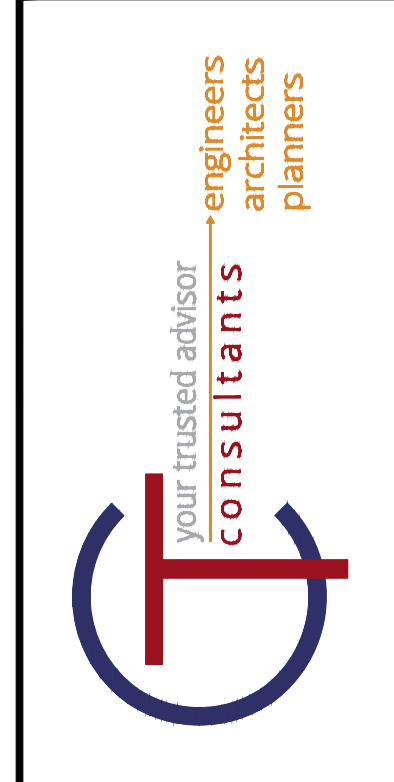
NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 1/16/2024	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT
 OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY
 SAYBROOK TOWNSHIP, OHIO

FIRE STATION SAN - 20 SERIES
SECTION UNDER CARPENTER RD

PROJECT NO:		231140
SHEET NAME		20C-01
SHEET	OF	
14	22	



NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 1/16/2024	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO

FIRE STATION SAN - 20 SERIES

GENERAL NOTES

PROJECT NO:	
231140	
SHEET NAME	
20C-02	
SHEET	OF
15	22

UNDERGROUND UTILITIES LOCATION

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE ASHTABULA COUNTY ENGINEERS OFFICE DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED IN THESE PLANS. THE FOLLOWING UTILITIES HAVE INSTALLATIONS WITHIN THE RIGHT-OF-WAY OF THIS PROJECT.

TIME WARNER CABLE 7757 AUBURN RD., SUITE 8 CONCORD, OH 44077 (440) 998-2148	WINDSTREAM COMMUNICATIONS 4616 PARK AVE. ASHTABULA, OH 44004 (440) 993-1700	FIRST ENERGY/THE ILLUMINATING COMPANY 6896 MILLER RD. BRECKSVILLE, OH 44141 1-800-589-3101
SPRINT COMMUNICATIONS 3801 ELM RD. WARREN, OH 44483 1-800-325-6224	DOMINION EAST OHIO 7001 CENTER RD. ASHTABULA, OH. 44004 (440) 992-5100	

UTILITIES NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND FACILITY SHOWN IN THE PLANS.

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATION SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

CONSTRUCTION LIMITS

THE WORK REQUIRED TO COMPLETE THE CONSTRUCTION OF THIS PROJECT AS DEPICTED IN THE PLANS SHALL NOT EXTEND BEYOND THE EXISTING RIGHT OF WAY LIMITS OR EASEMENT AREAS.

ESTIMATED QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEERS DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING THE COMPLETION OF THIS PROJECT.

PROFILE AND ALIGNMENT

THE PROPOSED SANITARY SEWER SHALL FOLLOW THE ALIGNMENT AND PROFILE AS SHOWN IN THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

CONSTRUCTION LAYOUT STAKES

THE COUNTY WILL ESTABLISH THE BENCHMARK.

SUPPLEMENTAL SPECIFICATIONS FOR WORK

ALL WORK MUST BE INSPECTED AND APPROVED BY THE COUNTY AT LEAST 48 HOURS BEFORE INSTALLATION. ALL WORK AND MATERIALS FURNISHED SHALL CONFORM TO THE CONSTRUCTION PLANS AND THE SUPPLEMENTAL SPECIFICATION IN THE CONTRACT DOCUMENT FOR THIS PROJECT OR IF REFERRED TO THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED JANUARY 1, 2013.

ELEVATION DATUM

ALL ELEVATIONS AER BASED ON U. S. G. S. DATUM

INGRESS AND EGRESS OF PROPERTY OWNERS

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE INGRESS AND EGRESS AT ALL TIMES FOR ANY OF THE ADJACENT PROPERTY OWNERS--THE EXISTING ROAD SHALL REMAIN OPEN.

ITEM 659: SEEDING AND MULCHING

WHEN NECESSARY, AS DETERMINED BY THE ENGINEER, SUITABLE TOP SOIL SHALL BE SUPPLIED BY THE CONTRACTOR PRIOR TO THE APPLICATION OF SEED, FERTILIZER AND LIME.

ITEM 659: SEEDING AND MULCHING (CONT.)

THE FOLLOWING SEED MIXTURE SHALL BE USED THROUGHOUT THE LIMITS OF THIS PROJECT IN LIEU OF THE MIXTURES LISTED IN 659.09-1:

CLASS-TYPE	SEEDS	LB/1000 SQ. FT.
1-LAWN MIXTURE	KENTUCKY BLUEGRASS	3
	CREeping RED FESCUE	3
	ANNUAL RYE GRASS	2
	PERENNIAL RYE GRASS	2
2-ROADSIDE MIXTURE	KENTUCKY BLUEGRASS	1.5
	KENTUCKY 31 FESCUE	2
	PERENNIAL RYE GRASS	1.5

AGRICULTURAL LIME AND COMMERCIAL FERTILIZER, AS PER 659
 THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED FORWARD
 TO THE GENERAL SUMMARY FOR THIS ITEM OF WORK:

ITEM 659 SEEDING AND MULCHING	<u>360 SY</u>
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EXISTING DRAINAGE CONNECTIONS

EXISTING ROOF, FOOTER, YARD, OR OTHER DRAINS DISTURBED BY THE PROPOSED WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING TO A STORM SEWER, MANHOLE, CATCH BASIN OR OUTLETING REGRADED DITCH. THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.

PAYMENT SHALL BE INCLUDED IN THIS UNIT PRICE BID FOR THE GRAVITY SEWER, COMPLETE IN PLACE.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR SANITARY SEWER COMPLETE IN PLACE.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE COUNTY, REPRESENTATIVES OF THE COUNTY AND THE CONTRACTOR ALONG WITH LOCAL REPRESENTATIVES SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED BY A FIELD OBSERVATION. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING.

ALL NEW CONDUITS, INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED AS PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE COUNTY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO FULL SATISFACTION OF THE COUNTY ENGINEER AND THE TOWNSHIP.

IN ADDITION, ITEM 603, CONDUIT SHALL INCLUDE THE REMOVAL AND/OR INSTALLATION OF ANY MISCELLANEOUS DRAINAGE STRUCTURES DETAILED ON THE PLAN OR OTHER DRAINAGE TO BE USED FOR REPLACEMENT AND/OR UTILIZATION OF EXISTING TILED FRONTAGES AND DRIVE PIPES.

TYPE, SIZE AND LOCATION OF MISCELLANEOUS DRAINAGE NOT DETAILED ON PLANS SHALL BE AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION.

EXCAVATION AND EMBANKMENT NEEDED FOR THE INSATLLATION OF CONDUIT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SANITARY SEWER, COMPLETE IN PLACE.

EROSION CONTROL NOTES

SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SEEDING AND MULCHING TO ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH DDOT ITEM 659 AND/OR AS SPECIFIED BY THE DDNR RAINWATER AND LAND DEVELOPMENT MANUAL.

TEMPORARY SEEDING SHALL BE APPLIED WITHIN ALL NEW ROADWAY AREAS, UTILITY EASEMENTS AND/OR AREAS REQUIRING ONLY TEMPORARY SEEDING. AND SHALL BE PERFORMED AS SOON AS GRADING IS COMPLETED AND READY FOR RELEASE.

THE CONTRACTOR SHALL SCHEDULE AND MAINTAIN EROSION CONTROL ITEMS IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.

APPROPRIATE EROSION CONTROL METHODS MUST BE IN PLACE PRIOR TO ANY EARTHWORK COMMENCING.

DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR A PERIOD OF TWENTY-ONE (21) DAYS OR LONGER SHALL BE STABILIZED WITH SEEDING AND MULCHING, OR OTHER APPROPRIATE MEANS, WITHIN SEVEN (7) DAYS AFTER EARTH MOVING CEASES. PERMANENT SOILS STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND AFTER ALL RAINSTORMS PRODUCING 1/4" PER 24 HOURS. ALL MEASURES SHALL BE REMOVED AFTER THE SITE IS STABILIZED AND/OR AS DIRECTED BY GOVERNING AGENCIES.

2.) THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATION AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS.

3.) TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED ON THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. TEMPORARY CONTROL MEASURES WILL BE USED WHEN AND AS DIRECTED BY THE ENGINEER TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN DURING THE DESIGN STAGE. THAT ARE NEEDED PRIOR TO INSTALLATION OR PERMANENT CONTROL FEATURES, OR THAT ARE NEEDED TEMPORARILY TO CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICES.

4.) EXISTING VEGETATIVE GROWTH SHALL REMAIN UNDISTURBED AS LONG AS POSSIBLE. THE CONTRACTOR SHALL SEED AND MULCH ALL AREAS DISTURBED BY THE CONSTRUCTION AND WHICH ARE EXPOSED FOR MORE THAN 30 DAYS. SEEDING AREAS WILL BE INSPECTED, AND AREAS WHERE THE SEED HAS NOT PRODUCED A GOOD COVER SHALL BE RESEDED AS NECESSARY BY THE COUNTY. STABILIZE AREAS WITH MULCH WHEN CONDITIONS PROHIBIT SEEDING.

5.) TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL SUBSEQUENTLY BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER. TEMPORARY AND PERMANENT EROSION CONTROL FEATURES SHALL BE CHECKED AFTER EACH MEASURABLE RAINFALL AND RE-ESTABLISHED AS NECESSARY.

6.) ADDITIONAL EROSION CONTROLS MAY BE MANDATED.

7.) ROUTINE INSPECTION WILL BE CONDUCTED ON ALL EROSION CONTROL PRACTICES FOR THIS PROJECT.

8.) INFILTRATION TRENCHES AND OR INFILTRATION BASINS FOR WATER QUALITY POST CONSTRUCTION BMP'S SHALL BE IN ACCORDANCE WITH DDOT L&D MANUAL VOLUME 2 SECTION 1115.

9.) THESE NOTES AND DRAWINGS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF DDOT.

EROSION CONTROL NOTES:

THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON ANY RECEIVING WATERS. IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE AREAS ARE STABILIZED.

INSTALLATION OF PERIMETER FILTER FABRIC FENCE SHALL BE CONCURRENT WITH CLEARING AND GRUBBING AND/OR GRADING OPERATIONS.

ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND.

AREAS TO REMAIN DORMANT FOR MORE THAN 45 DAYS SHOULD BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING, EROSION CONTROL MATTING OR OTHER APPROPRIATE EROSION CONTROL MEASURES.

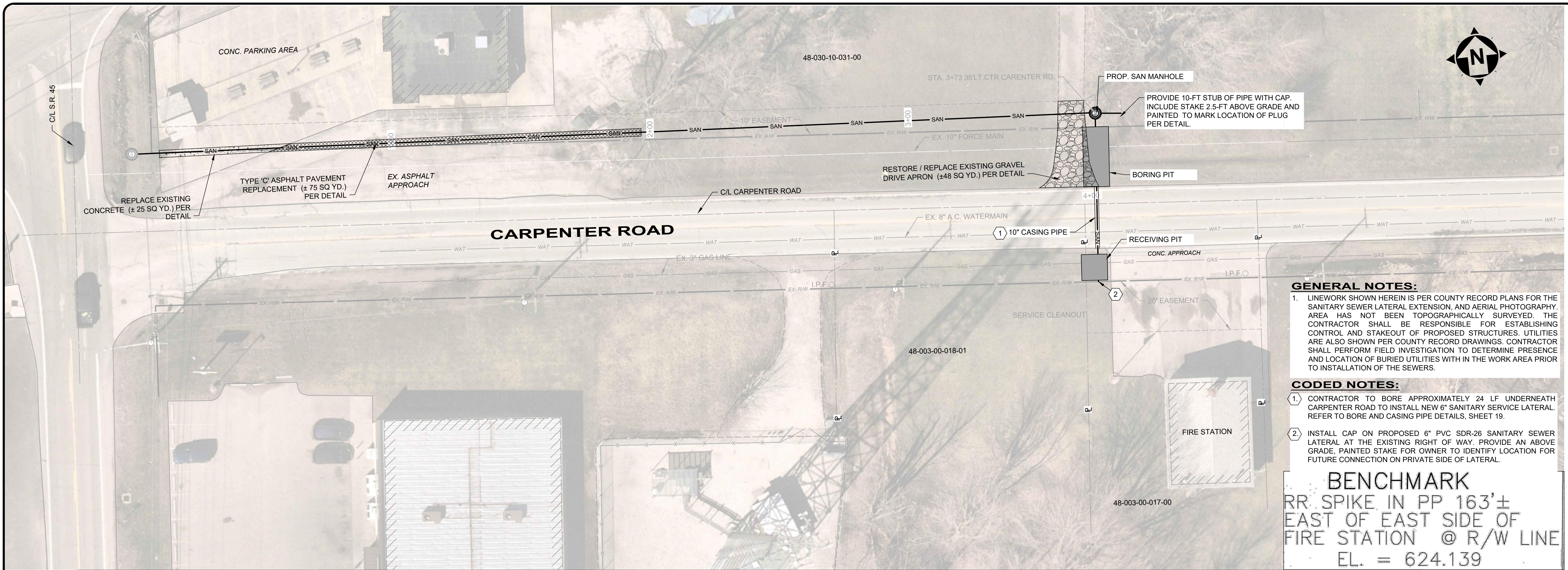
REPAIRS:

ANY EROSION CONTROL MEASURES, STRUCTURES, DEVICES OR RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN SEVEN (7) DAYS.

THE COST FOR ALL EROSION PROTECTION SHALL BE INCLUDED IN THE SANITARY SEWER, COMPLETE IN PLACE.

GENERAL COMMENTS:

THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN PROXIMITY TO THE EXISTING AND/OR RELOCATED FACILITY. SECTIONS 105.06 AND 107.17 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS INCLUDED HEREWITH AS PART OF THE SPECIFICATIONS, REQUIRE THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.



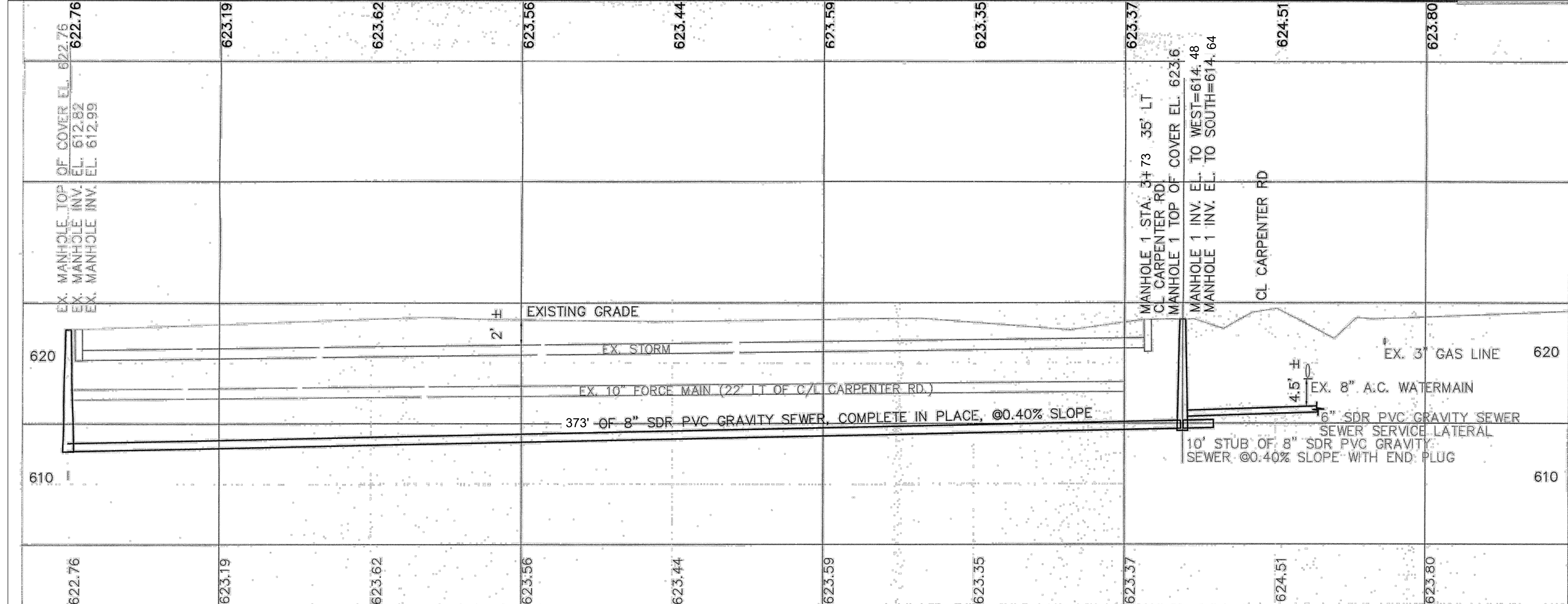
GENERAL NOTES:

- LINEWORK SHOWN HEREIN IS PER COUNTY RECORD PLANS FOR THE SANITARY SEWER LATERAL EXTENSION, AND AERIAL PHOTOGRAPHY. AREA HAS NOT BEEN TOPOGRAPHICALLY SURVEYED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING CONTROL AND STAKEOUT OF PROPOSED STRUCTURES. UTILITIES ARE ALSO SHOWN PER COUNTY RECORD DRAWINGS. CONTRACTOR SHALL PERFORM FIELD INVESTIGATION TO DETERMINE PRESENCE AND LOCATION OF BURIED UTILITIES WITHIN THE WORK AREA PRIOR TO INSTALLATION OF THE SEWERS.

CODED NOTES:

- CONTRACTOR TO BORE APPROXIMATELY 24 LF UNDERNEATH CARPENTER ROAD TO INSTALL NEW 6" SANITARY SERVICE LATERAL. REFER TO BORE AND CASING PIPE DETAILS, SHEET 19.
- INSTALL CAP ON PROPOSED 6" PVC SDR-26 SANITARY SEWER LATERAL AT THE EXISTING RIGHT OF WAY. PROVIDE AN ABOVE GRADE, PAINTED STAKE FOR OWNER TO IDENTIFY LOCATION FOR FUTURE CONNECTION ON PRIVATE SIDE OF LATERAL.

BENCHMARK
 RR SPIKE IN PP 163'±
 EAST OF EAST SIDE OF
 FIRE STATION @ R/W LINE
 EL. = 624.139



NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 1/16/2024	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT
 OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY
 SAYBROOK TOWNSHIP, OHIO

FIRE STATION SAN.- 20 SERIES

FIRE STATION EXTENSION PLAN & PROFILE

PROJECT NO:	
231140	
SHEET NAME	
20C-03	
SHEET	OF
16	22

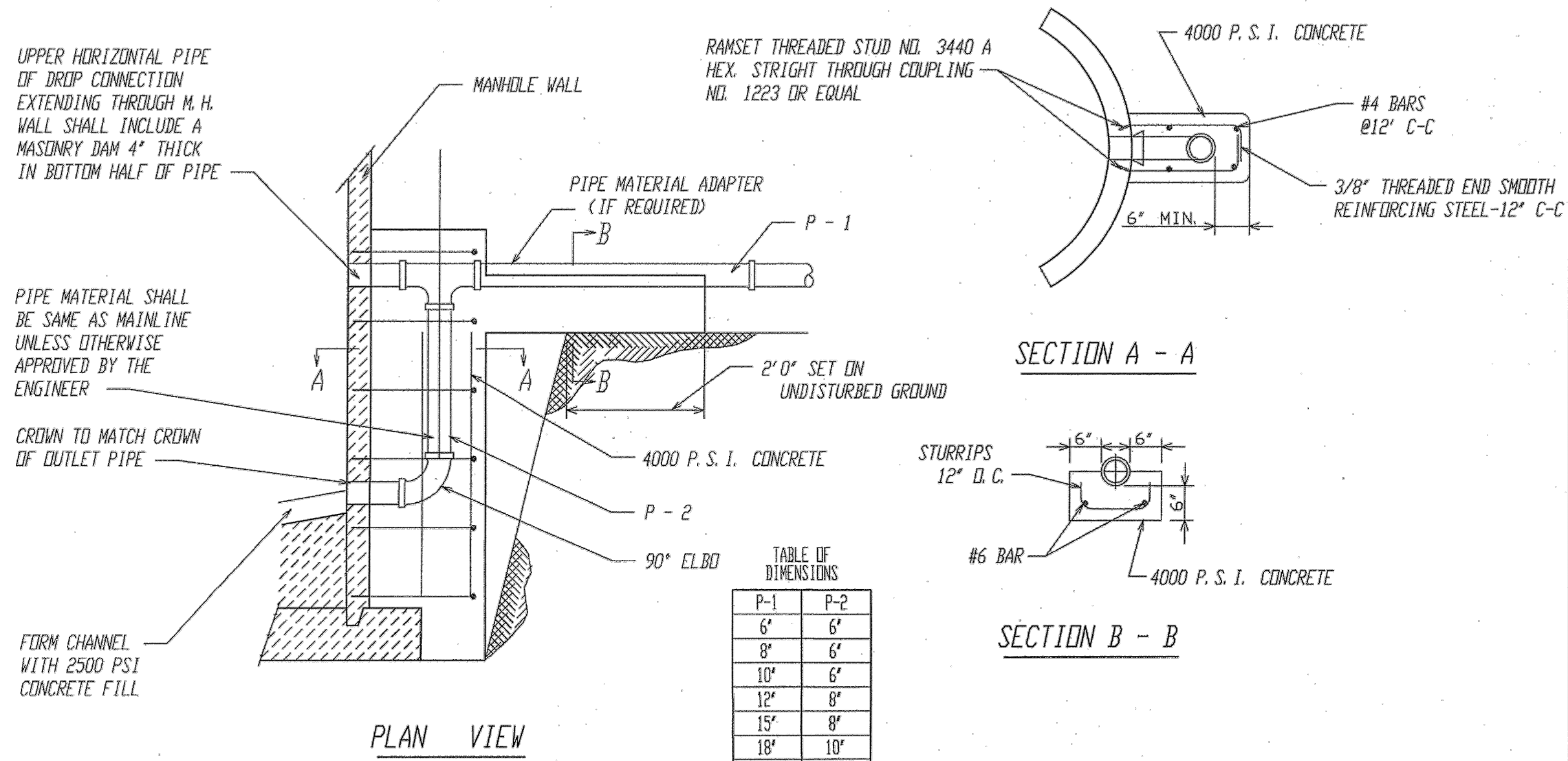
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SCALE: AS SHOWN	DATE: 1/16/2024	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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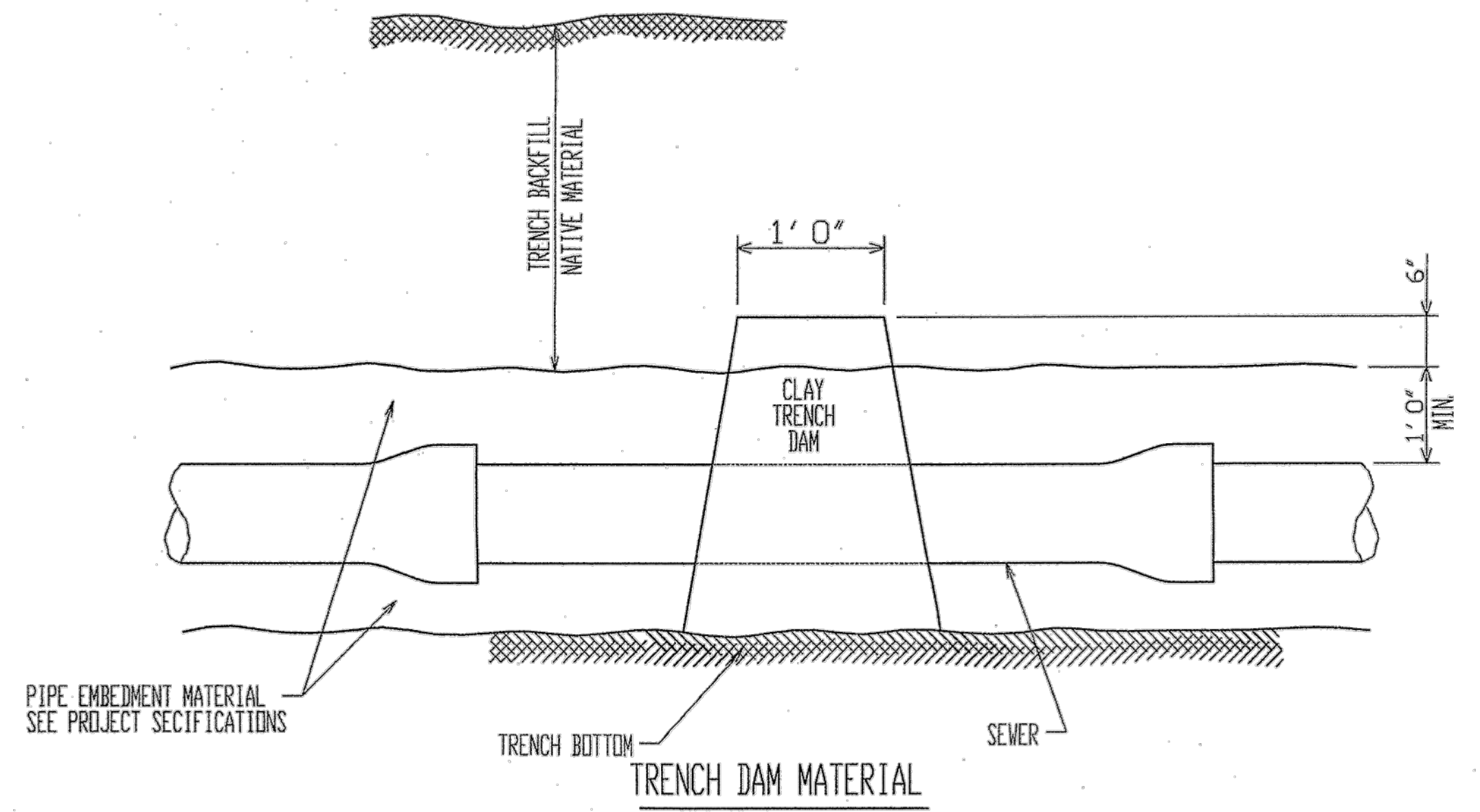
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO

FIRE STATION SAN - 20 SERIES
GENERAL DETAILS (1 OF 3)

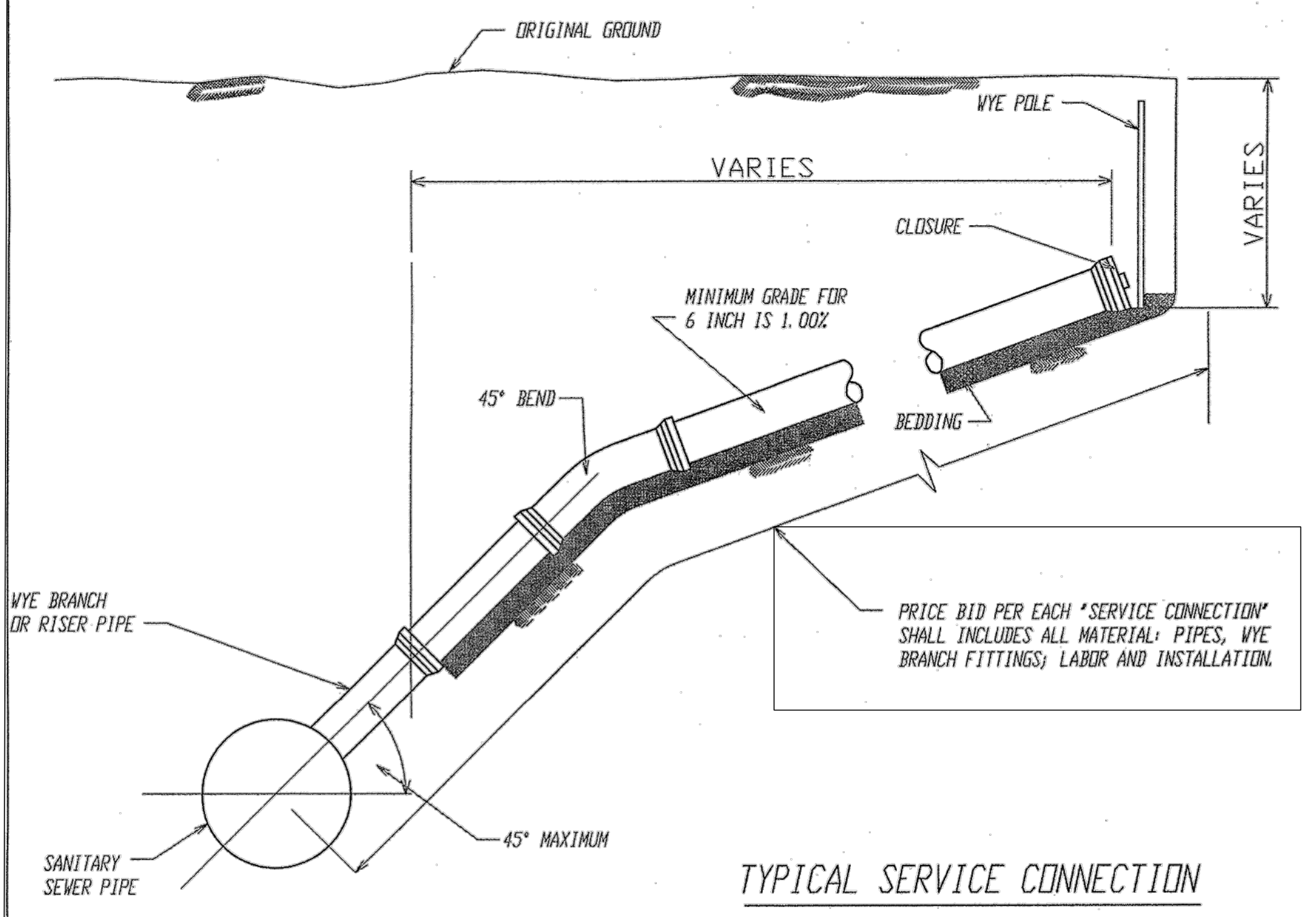
PROJECT NO:	231140
SHEET NAME:	20C-04
SHEET OF:	17 OF 22



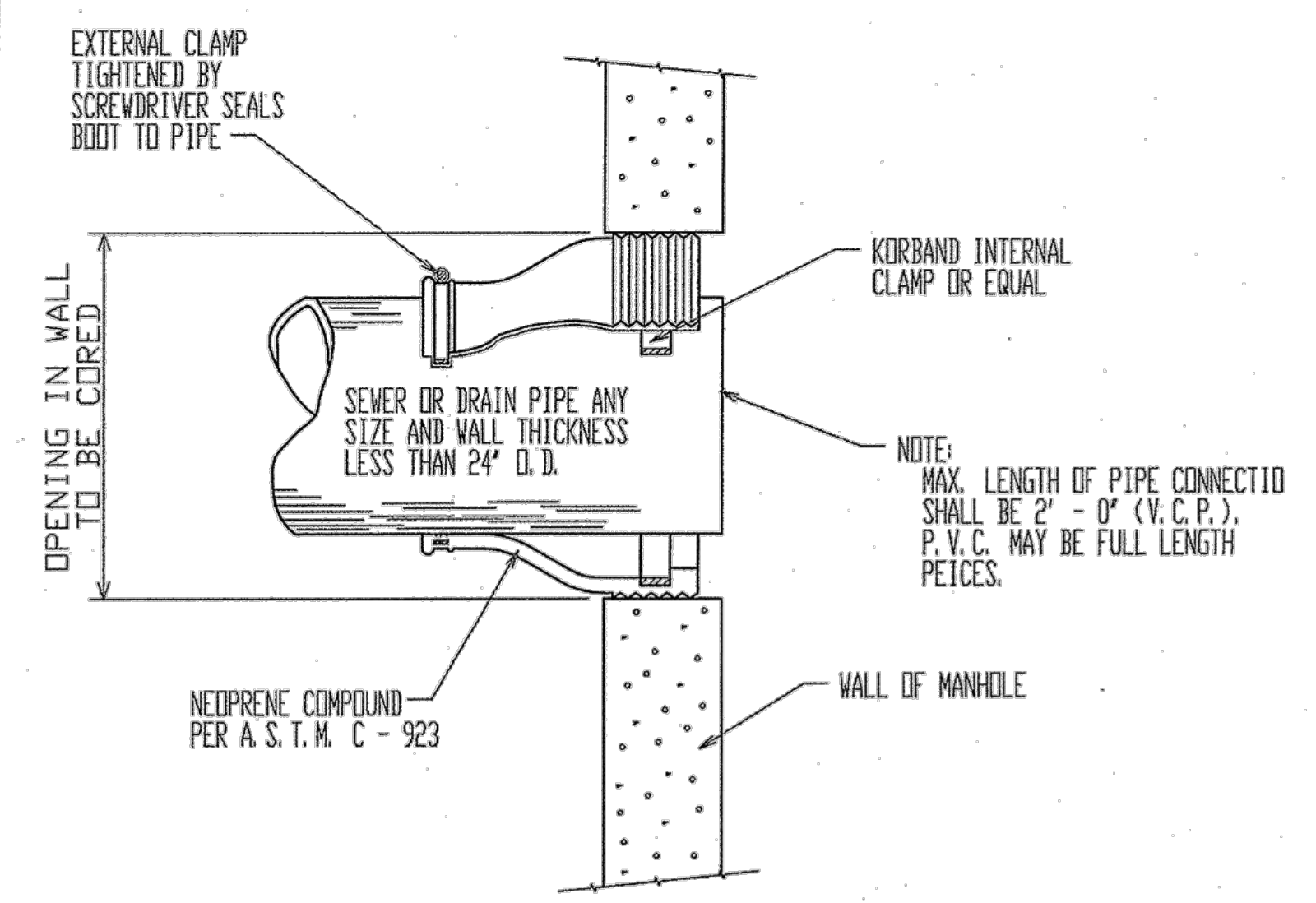
STANDARD PRECAST SANITARY MANHOLE DROP CONNECTION



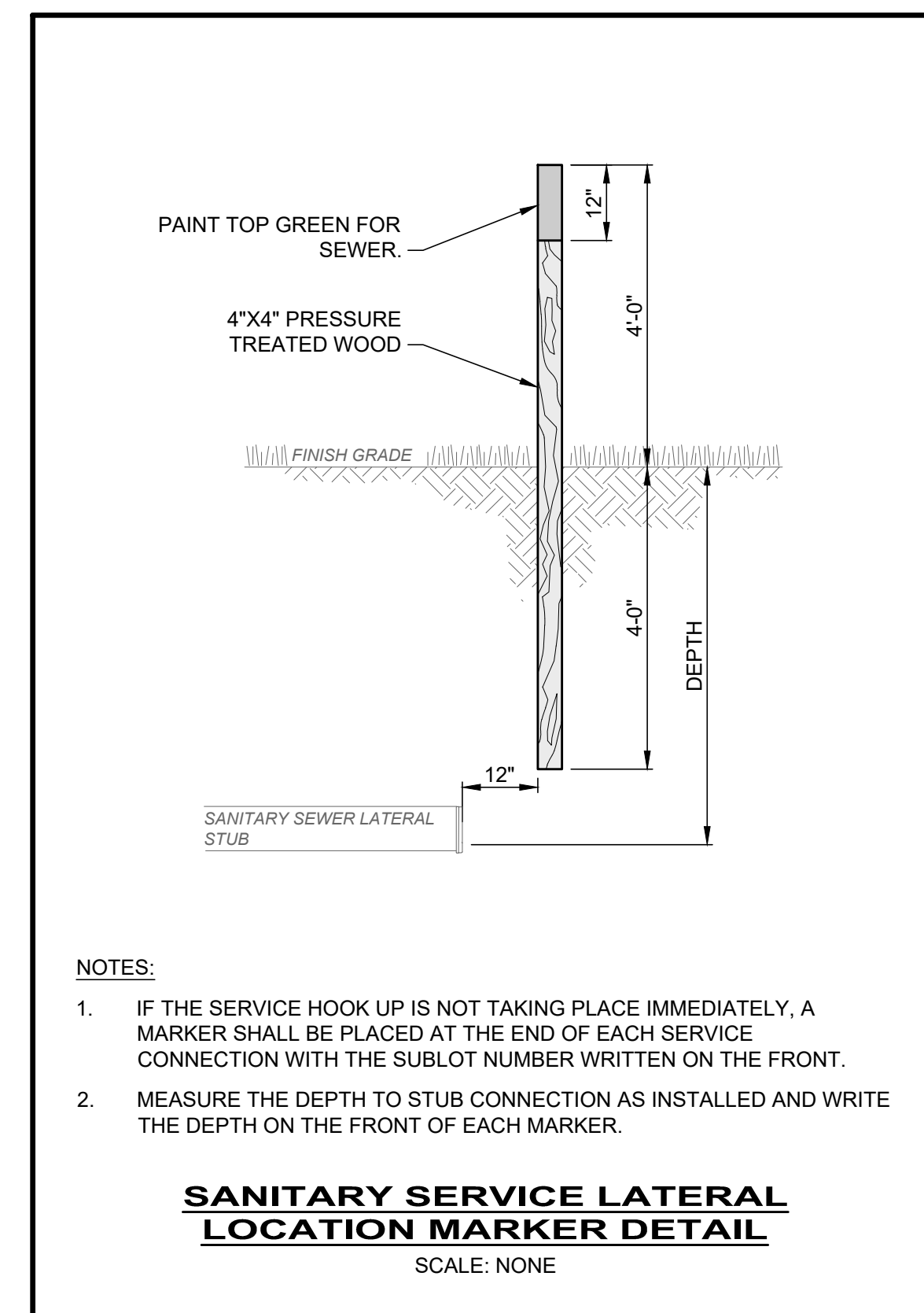
PIPE EMBEDMENT MATERIAL SEE PROJECT SPECIFICATIONS



TYPICAL SERVICE CONNECTION

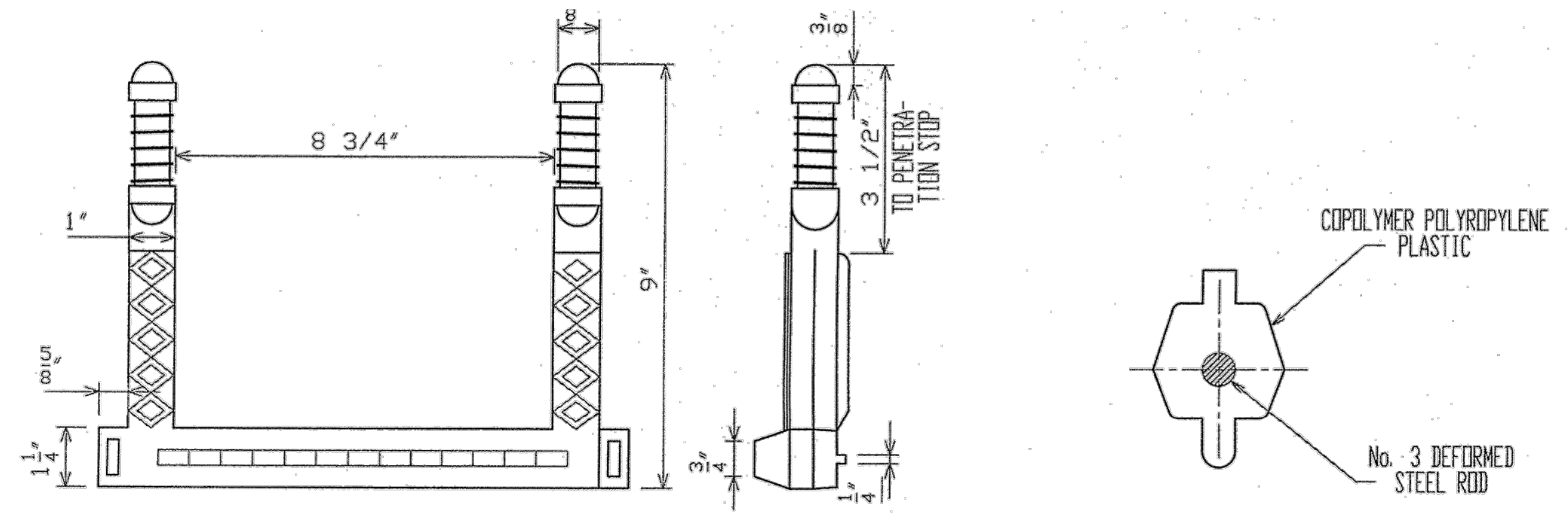


SANITARY SEWER FLEXIBLE GASKET DETAIL



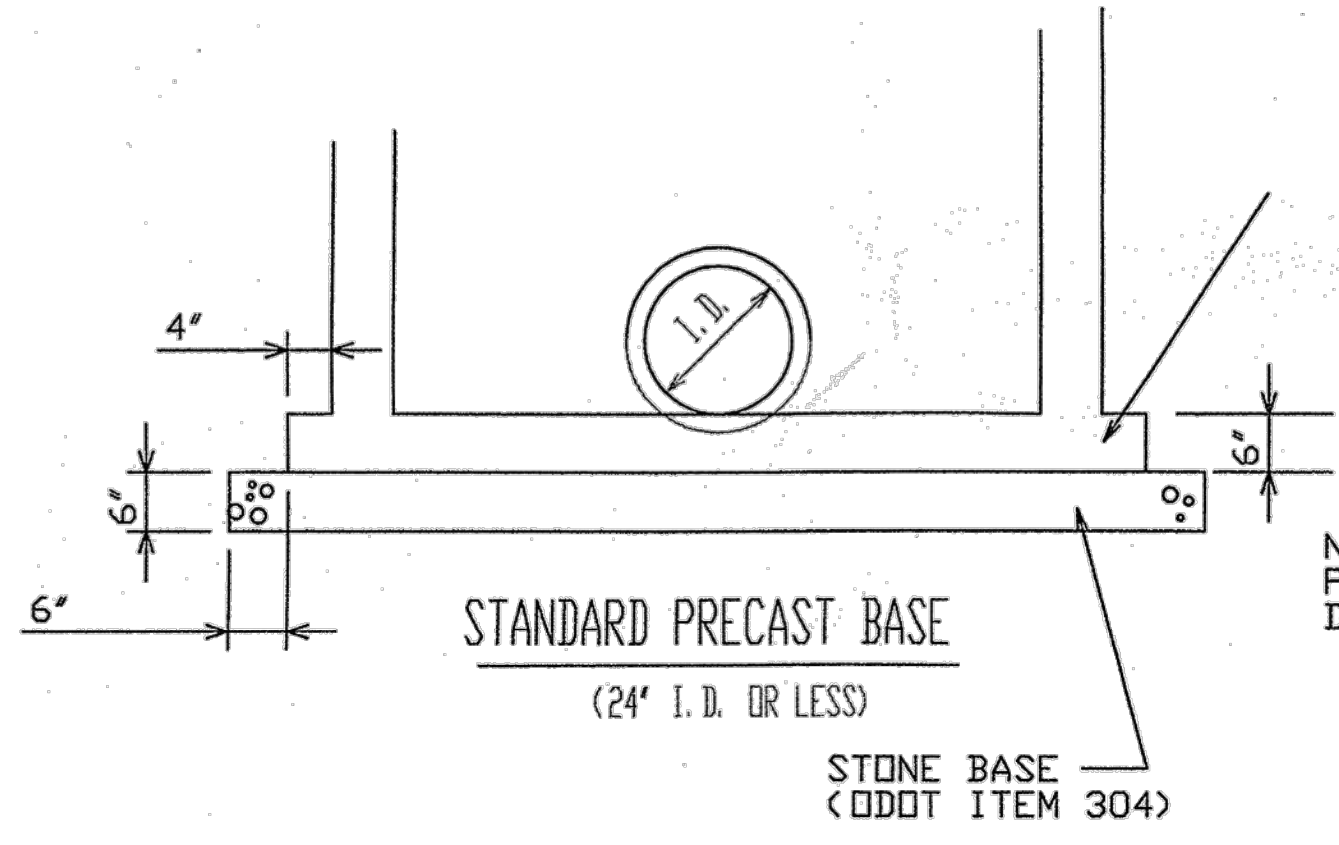
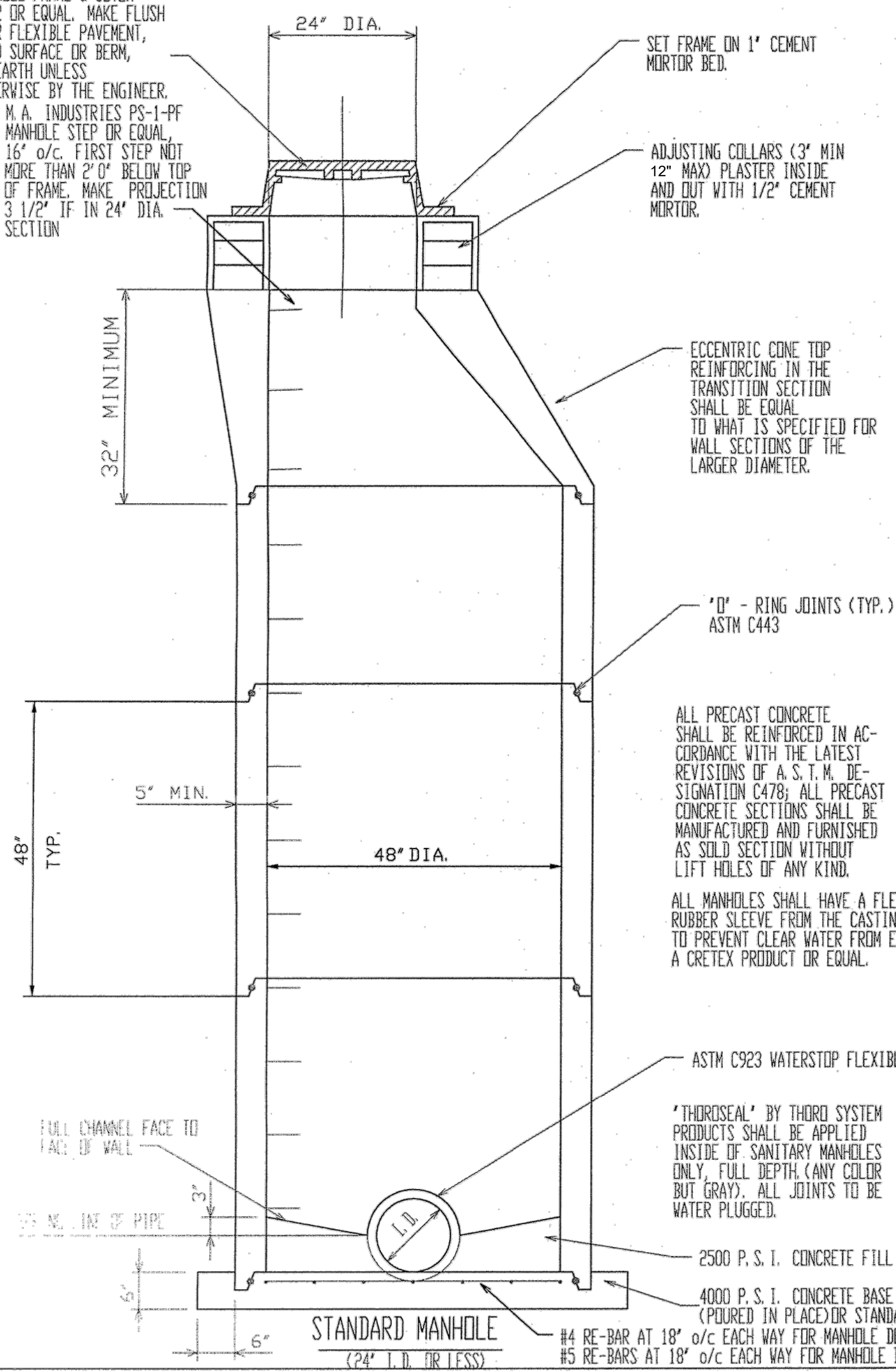
- NOTES:
- IF THE SERVICE HOOK UP IS NOT TAKING PLACE IMMEDIATELY, A MARKER SHALL BE PLACED AT THE END OF EACH SERVICE CONNECTION WITH THE SUBLOT NUMBER WRITTEN ON THE FRONT.
 - MEASURE THE DEPTH TO STUB CONNECTION AS INSTALLED AND WRITE THE DEPTH ON THE FRONT OF EACH MARKER.

SANITARY SERVICE LATERAL LOCATION MARKER DETAIL
 SCALE: NONE



STANDARD MANHOLE STEP DETAIL (N.T.S.)

STANDARD MANHOLE FRAME & COVER
 NEENAH R-1782 OR EQUAL. MAKE FLUSH
 WITH RIGID OR FLEXIBLE PAVEMENT,
 TRAVELED ROAD SURFACE OR BERM,
 OR 3" ABOVE EARTH UNLESS
 DIRECTED OTHERWISE BY THE ENGINEER.
 M. A. INDUSTRIES PS-1-PF
 MANHOLE STEP OR EQUAL,
 16" o/c. FIRST STEP NOT
 MORE THAN 2" BELOW TOP
 OF FRAME. MAKE PROJECTION
 3 1/2" IF IN 24" DIA.
 SECTION



PRECAST CONCRETE BOTTOM
 INTEGRAL WITH BASE RISER
 SECTION (MONOLITHIC).

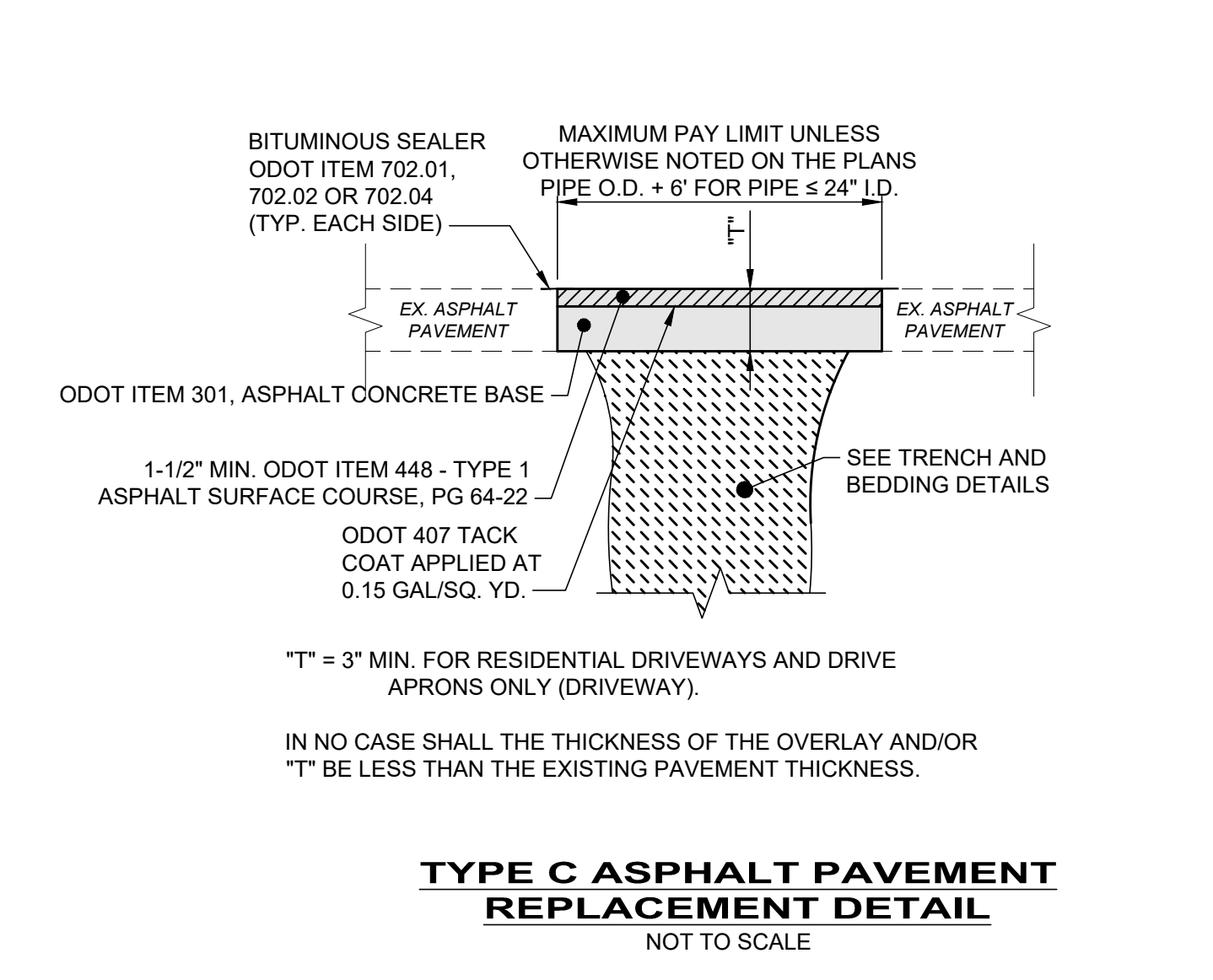
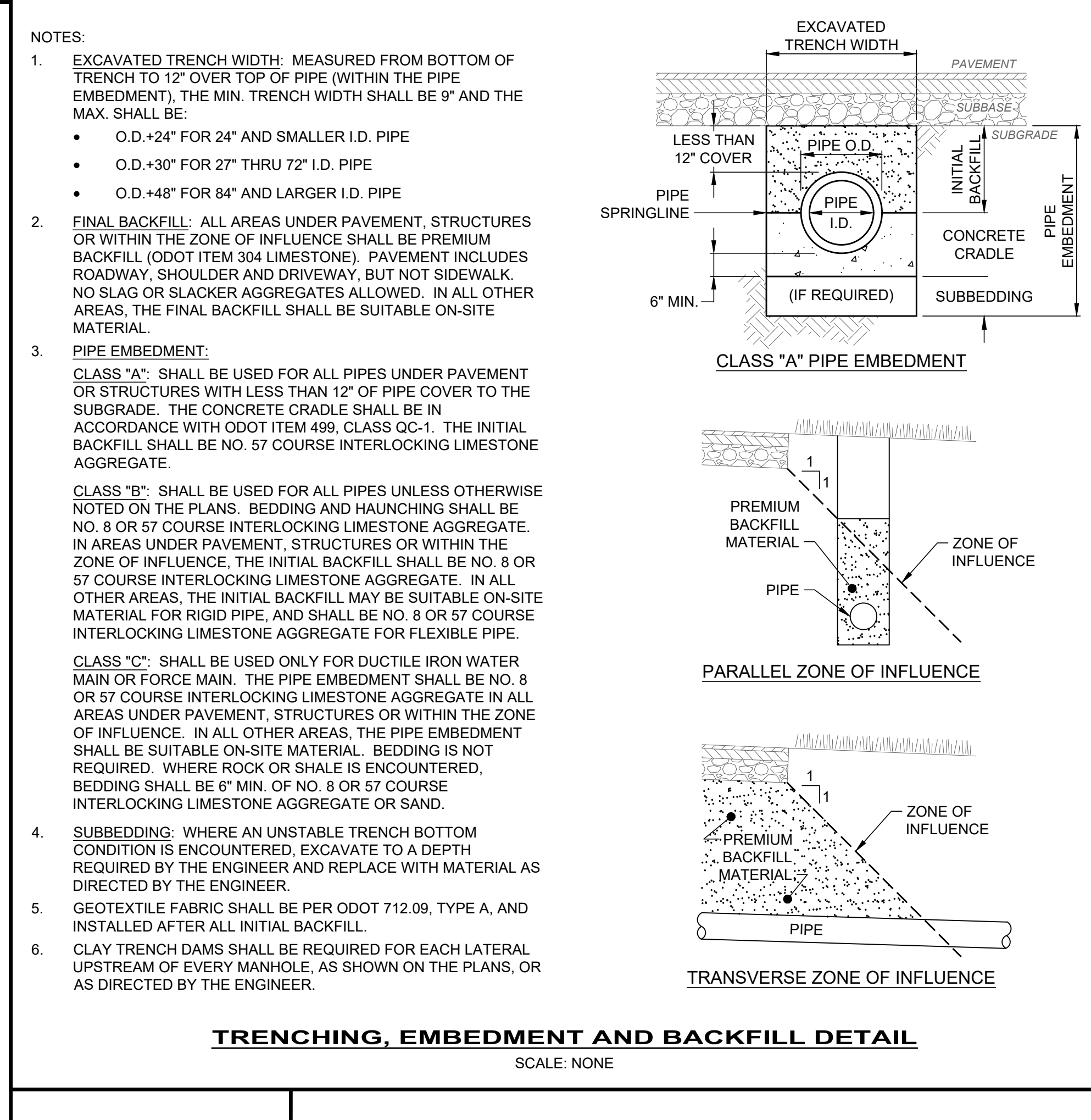
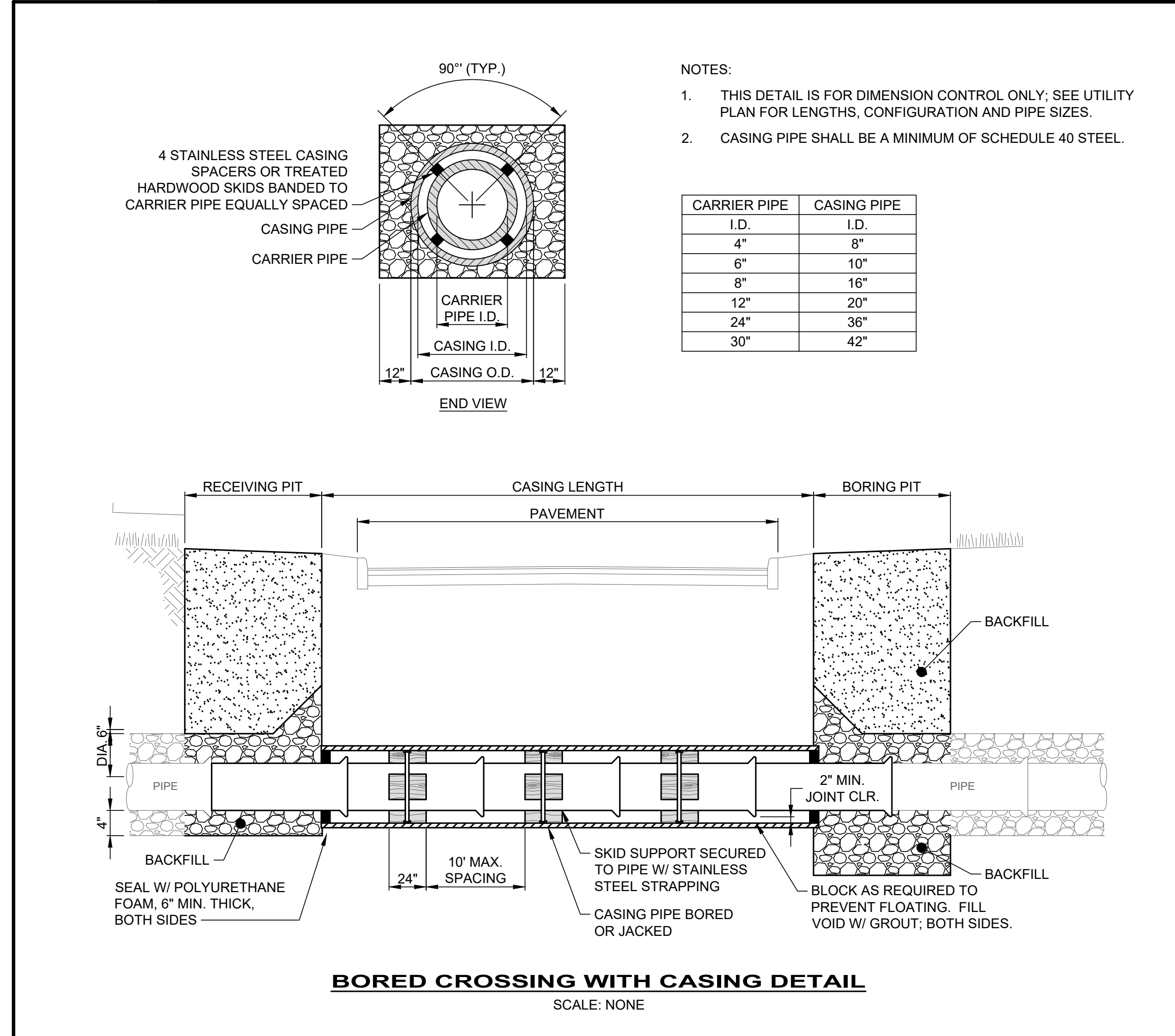
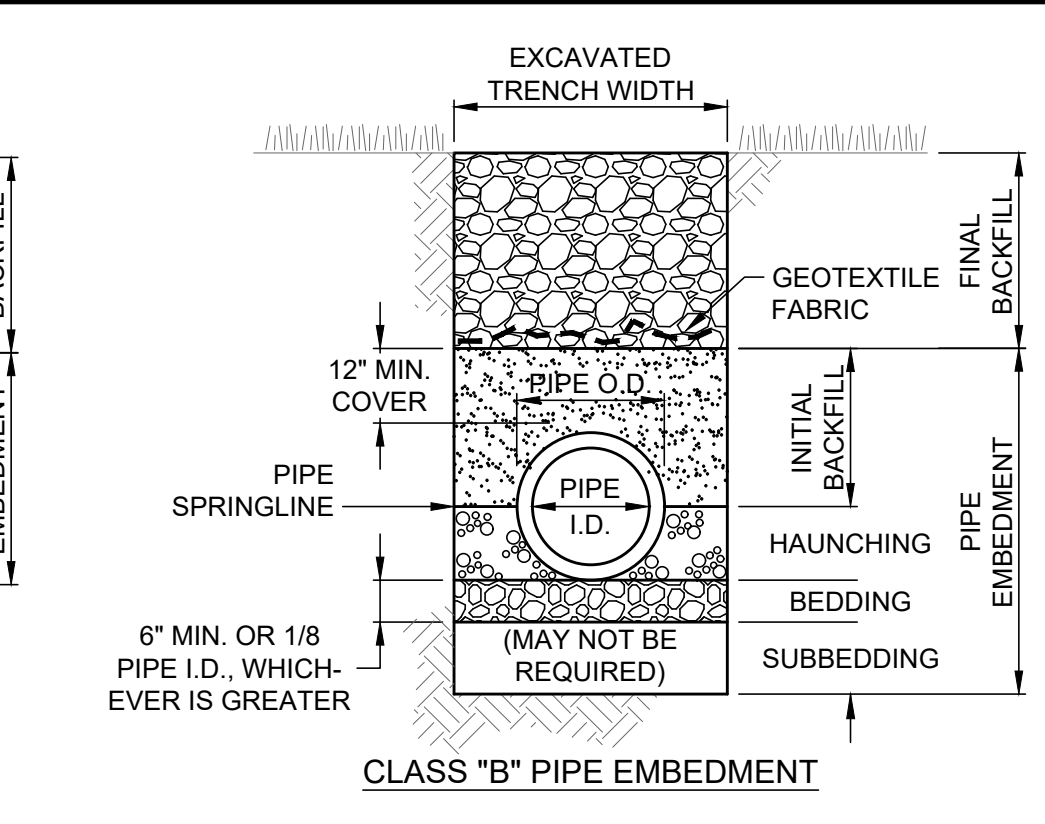
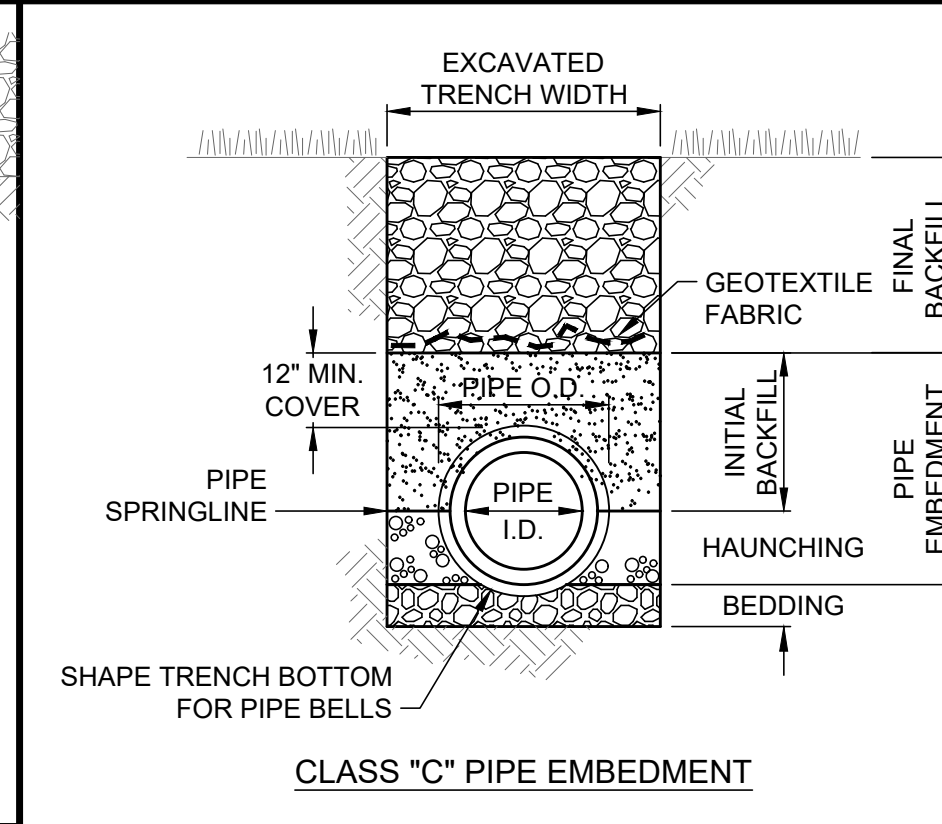
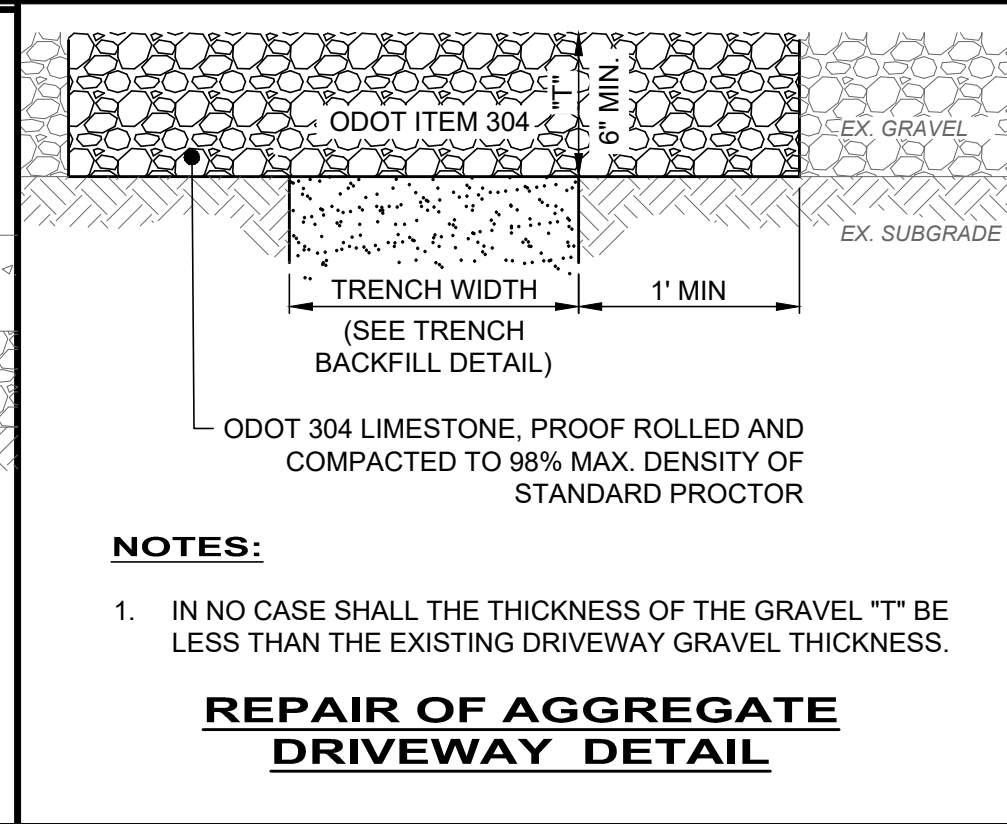
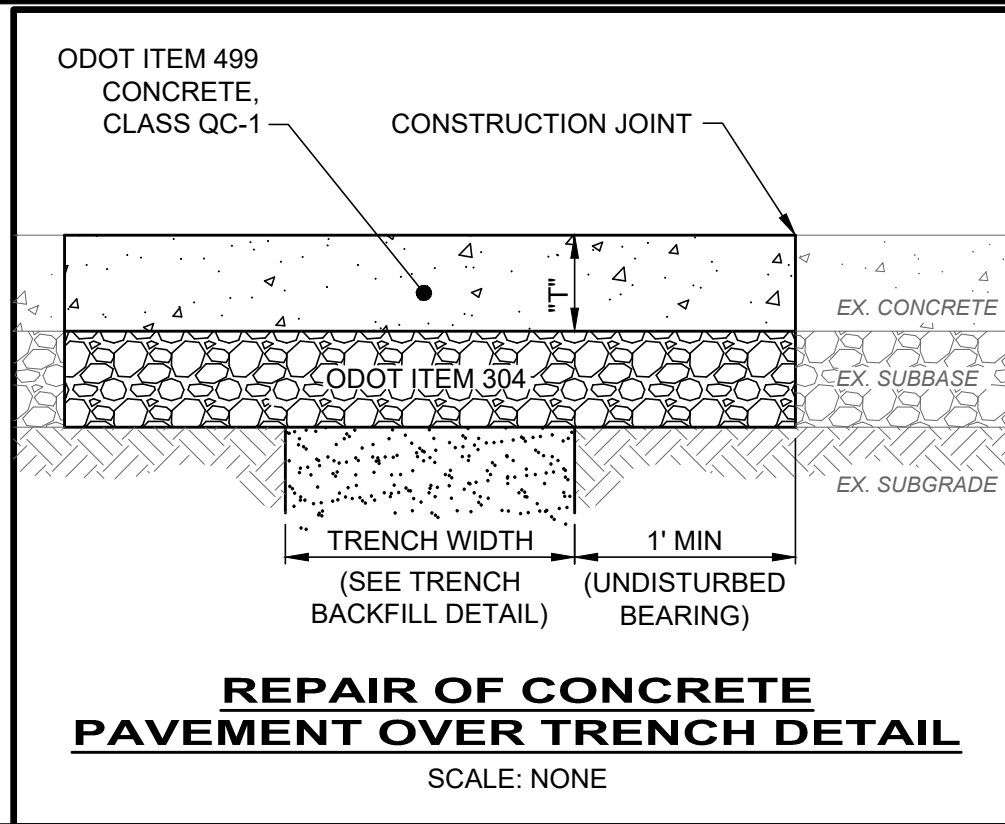
NOTE:
 PROVIDE 12" BASE SLAB WHEN MANHOLE
 DEPTH EXCEEDS 20' (FT.).

NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 1/16/2024	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT
 OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO
FIRE STATION SAN - 20 SERIES
GENERAL DETAILS (2 OF 3)

PROJECT NO:	231140
SHEET NAME	20C-05
SHEET	OF
18	22



STATE OF OHIO
PATRICK A. BLAKE
E-88436
REGISTERED PROFESSIONAL ENGINEER

Your trusted advisor
engineers
architects
planners
consultants

NO.	REVISION	DATE

SCALE: AS SHOWN	DATE: 1/16/2024	DESIGNED BY: FAB	DRAWN BY: RLM	CHECKED BY: FAB
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ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO

FIRE STATION SAN - 20 SERIES GENERAL DETAILS (3 OF 3)

PROJECT NO:	231140
SHEET NAME:	20C-06
SHEET OF:	19 22

PROJECT INFORMATION

PROJECT INFORMATION:
CARPENTER ROAD SANITARY SEWER OVERFLOW ELIMINATION
TOWNSHIP OF SAYBROOK, ASHTABULA COUNTY COUNTY, OHIO 44047

OWNER INFORMATION:
ASHTABULA COUNTY OF ENVIRONMENTAL SERVICES (ACDES)
A: 36 WEST WALNUT STREET, ASHTABULA, OHIO 44047
B: CONTACT: DOUGLAS STARKEY
C: 440-576-3725

SITE-CIVIL ENGINEER INFORMATION:
CT CONSULTANTS, INC.
8150 STERLING COURT
MENTOR, OHIO 44060
CONTACT: PATRICK A. BLAKE, PE
PHONE: 440-951-9000
EMAIL: PBLAKE@CTCONSULTANTS.COM

GENERAL CONTRACTOR INFORMATION:

Form with fields for BUSINESS NAME, STREET ADDRESS, CITY, STATE, ZIP CODE, PERSON RESPONSIBLE FOR AMENDING THE SWP3, NAME, PHONE, EMAIL.

ESTIMATED CONSTRUCTION START DATE: 02/15/2024
ESTIMATED CONSTRUCTION COMPLETION DATE: 7/15/2024

TYPE OF CONSTRUCTION ACTIVITY:
(X) NEW () MAINTENANCE () REDEVELOPMENT

DESCRIPTION OF PROJECT:
CONSTRUCTION OF A NEW SANITARY FORCE MAIN EXTENSION AND GRAVITY SEWER AND LATERAL AT FIREHOUSE #2, REPAIR DRIVEWAYS, CATCH BASINS, AND STORM SEWERS IF DISTURBED BY THE PROJECT.

SOIL DISTURBING ACTIVITIES INCLUDE:
EROSION AND SEDIMENT CONTROL INSTALLATION; CLEARING AND GRUBBING, TRENCHING FOR NEW UTILITIES, EARTHWORK GRADING; AND INSTALLATION OF NEW UTILITIES AND NEW PAVEMENT.

EROSION CONTROL TIMETABLE

Table with columns for DESCRIPTION and CALENDAR YEAR (J, F, M, A, M, J, J, A, S, O, N, D). Rows include STABILIZATION TYPE, TEMPORARY SEEDING, PERMANENT SEEDING, SODDING, MULCHING, PAVING.

IRRIGATION NEEDED

GENERAL NOTES

- 1. THE CONTRACTOR IS REQUIRED TO DEVELOP THE SWP3 FOR THIS PROJECT AND SUBMIT FOR APPROVAL TO THE SWCD SHOWING THE ITEMS LISTED BELOW. SOME SWP3 ITEMS MAY ALREADY BE SHOWN ON THE SWP3, BUT MOVED TO BETTER SUIT THE CONTRACTOR'S MEANS AND METHODS.
LIMITS OF EARTH DISTURBING ACTIVITY
CONSTRUCTION ENTRANCE(S)
EROSION AND SEDIMENT CONTROL MEASURES
INLET PROTECTIONS
CONCRETE WASHOUT PIT(S)
EQUIPMENT STAGING
FUEL STORAGE AND VEHICLE FUELING AREA
CONSTRUCTION TRAILER(S)
SANITATION FACILITY
MATERIAL STOCKPILE LOCATION(S)
CHEMICAL COMPOUND MIXING AND STORAGE AREA
ANY OTHER EROSION CONTROL REQUIRED
ALL WORK REQUIRED TO IMPLEMENT THE SWP3 INCLUDING INSPECTION FEES, MAINTENANCE AND REPAIRS SHALL BE DONE BY AND AT THE EXPENSE OF THE CONTRACTOR.
THE CONTRACTOR SHALL AMEND THE SWP3 WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT REQUIRES INSTALLATION OF BMPS OR MODIFICATION TO EXISTING BMPS.
ADDITIONAL OR DIFFERENT BMPS MAY BE NEEDED AS CONSTRUCTION PROGRESSES OR AS REQUIRED BY THE OWNER, SWCD OR OHIO EPA.
PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE LAND DISTURBED AT ANY ONE TIME AND LEAVE EXISTING VEGETATION IN PLACE AS LONG AS POSSIBLE.

ADMINISTRATIVE NOTES

- 1. A NOI IS NOT REQUIRED FOR THIS PROJECT BECAUSE THE TOTAL LAND DISTURBANCE IS LESS THAN 1 ACRE AND IS NOT PART OF A LARGER COMMON DEVELOPMENT.
THE CONTRACTOR SHALL FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE OHIO EPA NPDES CONSTRUCTION SITE STORMWATER GENERAL PERMIT OHC000006 AND THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL, AND BE RESPONSIBLE FOR ALL NPDES TERMS AND CONDITIONS UNTIL A NOT IS FILED.
NO CONSTRUCTION ACTIVITIES MAY BEGIN UNTIL ALL OF THE FOLLOWING OCCUR:
OHIO EPA NPDES AUTHORIZATION LETTER RECEIVED
THE CONTRACTOR FILES A CO-PERMITTEE APPLICATION TO THE OHIO EPA
THE CONTRACTOR ATTENDS A PRE-CONSTRUCTION MEETING WITH THE SWCD TO DISCUSS OHIO EPA NPDES PERMIT REQUIREMENTS
OHIO EPA APPLICATION FORMS (I.E. NOI, NOT, CO-PERMITTEE NOINOT, INDIVIDUAL LOT NOINOT AND PERMIT TRANSFER) ARE ONLY ACCESSIBLE ELECTRONICALLY VIA THE OHIO EPA STREAMS APPLICATION SUBMITTAL SYSTEM USING AN INDIVIDUAL EBUSINESS CENTER ACCOUNT. VISIT THE OHIO EPA'S ELECTRONIC BUSINESS SERVICES WEBSITE FOR MORE INFORMATION, GUIDANCE AND REPORTING QUESTIONS.
THE CONTRACTOR SHALL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND COMPLETING INSPECTION AND MAINTENANCE REPORTS. THE CONTRACTOR SHALL COMPLETE A "DELEGATION OF AUTHORITY FOR STORMWATER POLLUTION PREVENTION PLAN" AND PROVIDE A COPY TO THE OWNER AND SWCD.
ALL PROCEDURES AND REQUIREMENTS CONTAINED IN THIS SWP3 APPLY TO ALL GENERAL AND SUBCONTRACTORS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT, INFORM, REQUIRE AND ENFORCE ALL ASPECTS AND PROCEDURES OF THE SWP3. THE CONTRACTOR SHALL HAVE ALL SUBCONTRACTORS THAT ARE OR MAY BE ENGAGED IN ACTIVITIES THAT COULD IMPACT STORMWATER COMPLETE A "SUBCONTRACTOR AGREEMENT FOR EROSION AND SEDIMENT CONTROL", AND PROVIDE A COPY TO THE OWNER AND SWCD. EACH CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL FINES, DAMAGES AND LIABILITY RESULTING FROM FAILURE TO PROVIDE THE REQUIRED POLLUTION CONTROL.
THE CONTRACTOR SHALL KEEP ON-SITE COPIES OF THE NOI, NPDES, SW3P AND INSPECTION LOGS/REPORTS.
ALL EROSION AND SEDIMENT CONTROL WORK SHALL BE SUBJECT TO INSPECTION BY THE SWCD AND OHIO EPA.

EROSION CONTROL NOTES

- 1. SPECIAL MEASURES SHALL BE TAKEN TO STABILIZE DRAINAGE CHANNELS AND STORM WATER OUTFALLS.
DIVERT SURFACE RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHEREVER PRACTICABLE.
STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN THE TIME FRAMES IN THE FOLLOWING TABLES:

Table for PERMANENT STABILIZATION with columns for AREA REQUIRING PERMANENT STABILIZATION and TIME FRAME TO APPLY CONTROLS.

Table for TEMPORARY STABILIZATION with columns for AREA REQUIRING TEMPORARY STABILIZATION and TIME FRAME TO APPLY CONTROLS.

OTHER WASTE CONTROL NOTES

- 1. SOIL STOCKPILES SHALL BE RINGED WITH SILT FENCE ALONG THE BOTTOM FOOTPRINT. IF THE STOCKPILE WILL BE INACTIVE FOR 14 DAYS OR MORE, THE SURFACE SHALL BE SEEDED OR STABILIZED WITHIN 7 DAYS OF LAST DISTURBANCE.
CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS. ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, MUST BE DISPOSED OF IN A CONCRETE WASHOUT AREA TO COLLECT AND HARDEN.
OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES MUST BE MINIMIZED. THE CONTRACTOR SHALL SWEEP ALL ADJACENT ROADS TO REMOVE MUD, DIRT OR ROCK TRACKED FROM THE SITE AT THE END OF EACH WORK DAY OR AS REQUIRED DURING THE DAY. DUMP TRUCKS HAULING MATERIAL FROM THE SITE SHALL BE COVERED WITH A TARPULIN.
IT IS PROHIBITED TO BURN, BURY OR POUR ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS SOLID OR LIQUID WASTE INCLUDING TRASH, CONSTRUCTION DEBRIS, SOLVENTS, PAINT, DIESEL FUEL, GASOLINE, MOTOR OIL, HYDRAULIC FLUID, CEMENT CURING COMPOUND, ANTIFREEZE OR OTHER TOXIC OR HAZARDOUS WASTE. WASTE MATERIALS SHALL BE COLLECTED IN A SECURELY LIDDED DUMPSTER, DISPOSED OF IN AN APPROVED LANDFILL AND EMPTIED AS NECESSARY.
FUEL TANKS, DRUMS AND OTHER CONTAINERS HOLDING CHEMICALS MUST BE STORED WITHIN A DIKED AREA WITH A VOLUME OF AT LEAST 110% OF THE LARGEST TANK. A DIKED AREA IS NOT NECESSARY IF A SELF-CONTAINED SPILL PROOF TANK IS USED.
THE CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES AT THE SITE. SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS 1 TIME PER WEEK, OR MORE OFTEN IF NECESSARY.
ANY TOXIC OR HAZARDOUS MATERIAL SPILL, REGARDLESS OF SIZE, MUST BE REPORTED WITHIN 30 MINUTES TO THE LOCAL FIRE DEPARTMENT AND OHIO EPA.
CONTAMINATED SOIL, SOIL WHERE CONSTRUCTION CHEMICALS HAVE BEEN SPILLED OR HAZARDOUS WASTE MATERIALS MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
STORMWATER THAT COMES IN CONTACT WITH CONTAMINATED SOIL OR HAS A VISIBLE SHEEN MUST BE COLLECTED BY A VACUUM TRUCK AND DISPOSED OF AS A WASTE WATER.

TMDLS AND BMPS SELECTED

- 1. APPLICABLE TMDLS FOR THE PROJECT:
(X) PHOSPHORUS (X) AMMONIA (X) HABITAT
(X) NITROGEN (X) BACTERIA (X) FLOW
(X) SEDIMENT/TOTAL SUSPEND SOLIDS
(X) DISSOLVED OXYGEN/ORGANIC ENRICHMENT
THE FOLLOWING BMPS ARE SELECTED TO ADDRESS APPLICABLE TMDLS FOR THE PROJECT:
A. CONSTRUCTION SITE:
(X) DEMARCATATE PROTECTED AREA BEFORE CONSTRUCTION
(X) MAINTAIN PORTABLE TOILET AND EMPTY W/OUT SPILL
(X) PROPER STORAGE OF LANDSCAPE FERTILIZER
(X) M54 MONTHLY INSPECTIONS DURING CONSTRUCTION
(X) RESOLVE NON-COMPLIANCE SW3P INSPECTION ITEMS
(X) FINAL INSPECTION TO ENSURE BMP IMPLEMENTATION
B. TEMPORARY EROSION CONTROL:
(X) DEWATERING
C. TEMPORARY SEDIMENT CONTROL:
(X) SILT FENCE (X) INLET PROTECTION
(X) FILTER SOCK
D. SOIL STABILIZATION:
(X) DUST CONTROL (X) PHASED DISTURBANCE
(X) MULCHING (X) CLEARING AND GRUBBING
(X) SODDING (X) TEMPORARY SEEDING
(X) TOPSOILING (X) PERMANENT SEEDING
(X) GRADE TREATMENT
(X) TEMPORARY ROLLED EROSION CONTROL PRODUCTS
(X) TREE AND NATURAL AREA PRESERVATION
E. POLLUTION PREVENTION AND GOOD HOUSEKEEPING:
(X) ROUTINE FACILITY INSPECTIONS
(X) VISUAL ASSESSMENT OF STORM WATER DISCHARGE
(X) ANNUAL COMPREHENSIVE SITE INSPECTION
(X) CLEAN CATCH BASINS
(X) STORE WASTE IN LIDDED CONTAINERS
F. POST-CONSTRUCTION:
(X) LOW IMPACT DEVELOPMENT

PERMIT CLOSURE REQUIREMENTS

- 1. FINAL STABILIZATION REQUIRES THE CONTRACTOR TO REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROLS FROM THE SITE AND ALL SEDIMENT TRAPPED BY THOSE CONTROLS BE PERMANENTLY STABILIZED.
THE CONTRACTOR SHALL COMPLETE A "FINAL CERTIFICATION AND NOTIFICATION FOR EROSION AND SEDIMENT CONTROL" UPON PROJECT COMPLETION AND PROVIDE A COPY TO THE OWNER AND SWCD.
ONCE CONSTRUCTION ACTIVITIES HAVE CEASED AND THE SITE REACHES FINAL STABILIZATION, THE CONTRACTOR MUST TERMINATE THE NPDES PERMIT COVERAGE BY FILING A NOT WITH THE OHIO EPA WITHIN 45 DAYS OF FINAL STABILIZATION. FINAL STABILIZATION IS DEFINED AS AN ESTABLISHED VEGETATIVE GROUND COVER OF AT LEAST 70% GROWTH DENSITY, OR OTHER MEANS OF PERMANENT STABILIZATION, OVER ALL AREAS DISTURBED DURING CONSTRUCTION.
THE CONTRACTOR MUST MAINTAIN ALL REPORTS FOR 3 YEARS AFTER THE NOT IS FILED, AND PROVIDE DIGITAL COPIES TO THE OWNER AND SWCD.

SEDIMENT CONTROL NOTES

- 1. INLET PROTECTION AND SEDIMENT BARRIERS MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING.
PERIMETER SEDIMENT BARRIERS MUST BE INSTALLED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF CLEARING AND GRUBBING, AND CONTINUE TO FUNCTION UNTIL ALL DISTURBED UPLAND AREAS ARE STABILIZED.
SEDIMENT CONTROLS MUST POND RUNOFF TO BE CONSIDERED FUNCTIONAL.
SEDIMENT-LADEN TRENCH OR GROUND WATER MUST PASS THROUGH A SEDIMENT-SETTLING POND OR BE DEWATERED IN-PLACE USING A SUMP PIT, FILTER BAG OR OTHER COMPARABLE METHOD, PRIOR TO DISCHARGE FROM THE SITE.
TRENCH AND GROUND WATER FREE FROM SEDIMENT OR OTHER POLLUTANTS MAY BE DISCHARGED WITHOUT TREATMENT, PROVIDED THIS WATER DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.
SETTLED MATERIAL SHALL BE DISPOSED OF IN A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL.

MAINTENANCE REQUIREMENTS

- 1. BMPS SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL UPSLOPE AREAS THEY CONTROL ARE STABILIZED.
THE CONTRACTOR SHALL PROVIDE A QUALIFIED PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROLS, POSSESS THE TECHNICAL SKILLS TO ASSESS SITE CONDITIONS THAT COULD IMPACT STORM WATER QUALITY, AND CAN ASSESS THE EFFECTIVENESS OF ANY BMP SELECTED.
A QUALIFIED PERSON MUST INSPECT BMPS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL IN A 24-HOUR PERIOD TO DETERMINE IF THE SWP3 WAS PROPERLY IMPLEMENTED.
THE QUALIFIED PERSON MUST PREPARE A WRITTEN REPORT AFTER EACH INSPECTION SUMMARIZING INSPECTION RESULTS INCLUDING THE FOLLOWING:
DATE OF INSPECTION
NAME AND QUALIFICATION OF THE INSPECTOR
WEATHER CONDITIONS
LOCATIONS WHERE IN-STREAM OR OFF-SITE SEDIMENTATION OR OTHER POLLUTANTS WERE OBSERVED.
LOCATIONS OF BMPS NEEDING MAINTENANCE.
LOCATIONS OF BMPS FAILING TO OPERATE CORRECTLY OR PROVIDE ADEQUATE PROTECTION.
LOCATION OF AREAS IN NEED OF ADDITIONAL BMPS NOT IN PLACE AT THE TIME OF INSPECTION.
CORRECTIVE ACTIONS REQUIRED, CHANGES TO THE SW3P AND IMPLEMENTATION DATES.
GRADING AND STABILIZATION ACTIVITY LOG
EROSION AND SEDIMENT CONTROL AMENDMENT LOG
ALL INCIDENCES OF NON-COMPLIANCE MUST BE IDENTIFIED IN THE REPORT. IF A REPORT DOES NOT IDENTIFY INCIDENCES OF NON-COMPLIANCE, IT MUST CONTAIN A CERTIFICATION THE SITE IS IN COMPLIANCE AT THE TIME OF INSPECTION.
BMP MAINTENANCE OR REPAIR MUST BE COMPLETED WITHIN 3 DAYS, AND OF THE INSPECTION THAT REVEALED A DEFICIENCY.
WHEN AN INSPECTION REVEALS A BMP IS NOT EFFECTIVE AND A MORE APPROPRIATE BMP IS REQUIRED, THE SW3P SHALL BE AMENDED, THE NEW BMP INSTALLED WITHIN 10 DAYS OF THE INSPECTION THAT REVEALED THE DEFICIENCY, AND THE "STORMWATER POLLUTION PREVENTION PLAN AMENDMENT LOG" FORM COMPLETED.
WHEN AN INSPECTION REVEALS A BMP HAS NOT BEEN INSTALLED, BUT IS REQUIRED TO PROVIDE ADEQUATE CONTROL, IT MUST BE INSTALLED PRIOR TO THE NEXT STORM EVENT WHICH PRODUCES RUNOFF, BUT IN NO CASE LATER THAN 10 DAYS FROM THE INSPECTION THAT REVEALED THE DEFICIENCY.
THE INSPECTION FREQUENCY MAY BE REDUCED TO 1 TIME PER MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER WEATHER (I.E. SUSTAINED SNOW COVER OR FROZEN GROUND CONDITIONS). A WAIVER OF INSPECTION REQUIREMENTS IS AVAILABLE UNTIL 1 MONTH BEFORE THAWING CONDITIONS ARE EXPECTED IF ALL THE FOLLOWING CONDITIONS ARE MET:
A. FROZEN CONDITIONS ARE ANTICIPATED TO CONTINUE FOR EXTENDED PERIODS OF TIME (I.E. MORE THAN 1 MONTH).
B. SOIL DISTURBANCE ACTIVITIES HAVE BEEN SUSPENDED.
C. THE BEGINNING AND ENDING DATES OF THE WAIVER PERIOD ARE DOCUMENTED IN THE SW3P.
ONCE A DEFINABLE AREA HAS BEEN FULLY STABILIZED, IT MAY BE MARKED ON THE SWP3 AND NO FURTHER INSPECTION REQUIREMENTS ARE REQUIRED FOR THAT AREA OF THE SITE.
INSPECTIONS SHALL BE PERFORMED UNTIL A NOT IS FILED WITH THE OHIO EPA.

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

- 1. HOLD A PRE-CONSTRUCTION MEETING TO DISCUSS OHIO EPA NPDES PERMIT REQUIREMENTS.
CONTRACTOR SUBMITS CONSTRUCTION SCHEDULE FOR CONSTRUCTION ACTIVITIES.
BEGIN INSPECTION, MAINTENANCE, RECORD KEEPING AND SITE POSTING OF BMPS.
ESTABLISH STAGING AREA AND NON-SEDIMENT BMPS.
INSTALL SILT FENCE, INLET PROTECTION.
INSTALL OTHER TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS AS SOON AS POSSIBLE, BUT NO LATER THAN 7 DAYS AFTER FIRST SOIL DISTURBANCE. INSPECT AND MAINTAIN BMPS FOR THE PROJECT DURATION UNTIL UPSLOPE AREAS ARE PERMANENTLY STABILIZED.
BEGIN SITE DEMOLITION AND CONSTRUCTION.
INSTALL DEWATERING MEASURES.
BEGIN EARTHWORK OPERATIONS.
APPLY TEMPORARY SEED.
INSTALL STORM SEWERS AND INLETS.
CONSTRUCT REMAINING UTILITIES INCLUDING SANITARY, WATER, ELECTRIC, GAS AND PHONE.
INSTALL PAVING.
INSPECT AND CLEAN EXISTING AND NEW STORM SEWERS AND INLETS.
APPLY PERMANENT SEED.
INSTALL LANDSCAPING.
CONTINUE INSPECTIONS, MAINTENANCE, RECORD KEEPING, AND SITE POSTING UNTIL FINAL STABILIZATION ACHIEVED.
REMOVE TEMPORARY BMPS FROM STORM SEWER AND INLETS, AND OPEN GUTTERS AND DITCHES TO OBTAIN FREE DRAINAGE.
DISPOSE OF ALL DEBRIS AND WASTE MATERIAL.

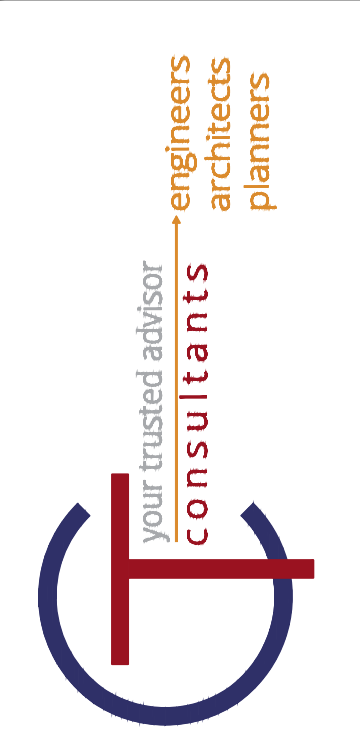


Table with columns for DATE, REVISION, NO.

Table with columns for SCALE, DATE, DESIGNED BY, DRAWN BY, CHECKED BY.

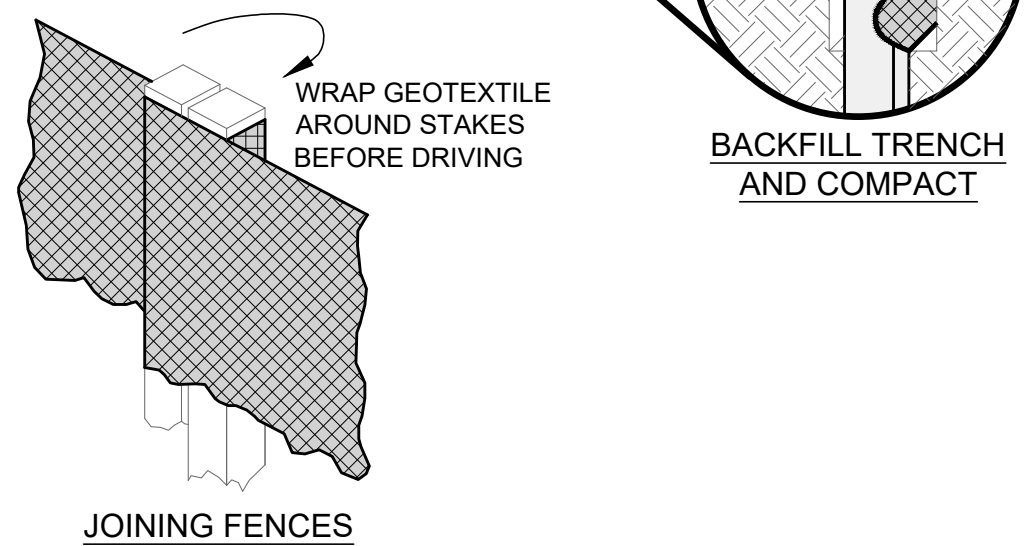
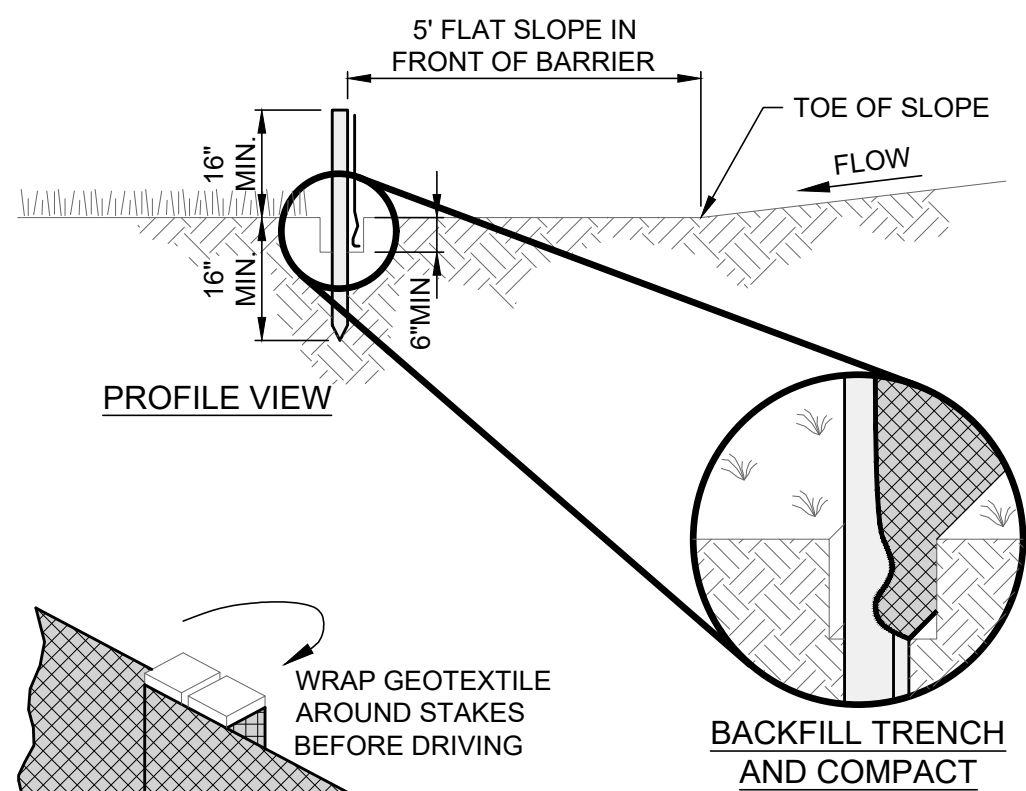
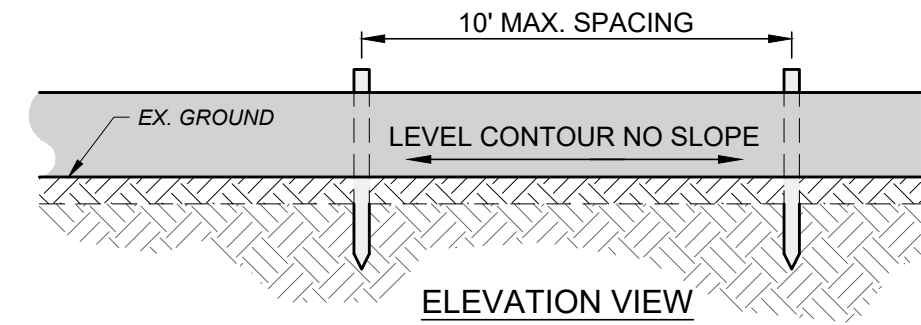
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
ASHTABULA COUNTY
SWPPP - 30 SERIES
SWPPP NOTES

Table with columns for PROJECT NO., SHEET NAME, SHEET, OF.

- THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
- SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH VEGETATION. PERFORM SOIL TESTS TO PREDICT THE NEED FOR LIME OR FERTILIZER. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS
- APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING, AND LIGHTLY TAMPING INTO PLACE.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.
- INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND RE-MULCH AS NEEDED.

TEMPORARY SEEDING SPECIES SELECTION			
DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 - AUGUST 15	OATS	3	128
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
AUGUST 16 - OCTOBER 31	PERENNIAL RYEGRASS	2	40
	TALL FESCUE	1	40
	RYE	3	112
NOVEMBER 1 - FEBRUARY 28	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
	WHEAT	3	120
	TALL FESCUE	1	40
	PERENNIAL RYEGRASS	1	40
	TALL FESCUE	1	40
ONLY MULCH OR DORMANT SEEDING.			

TEMPORARY SEEDING NOTES



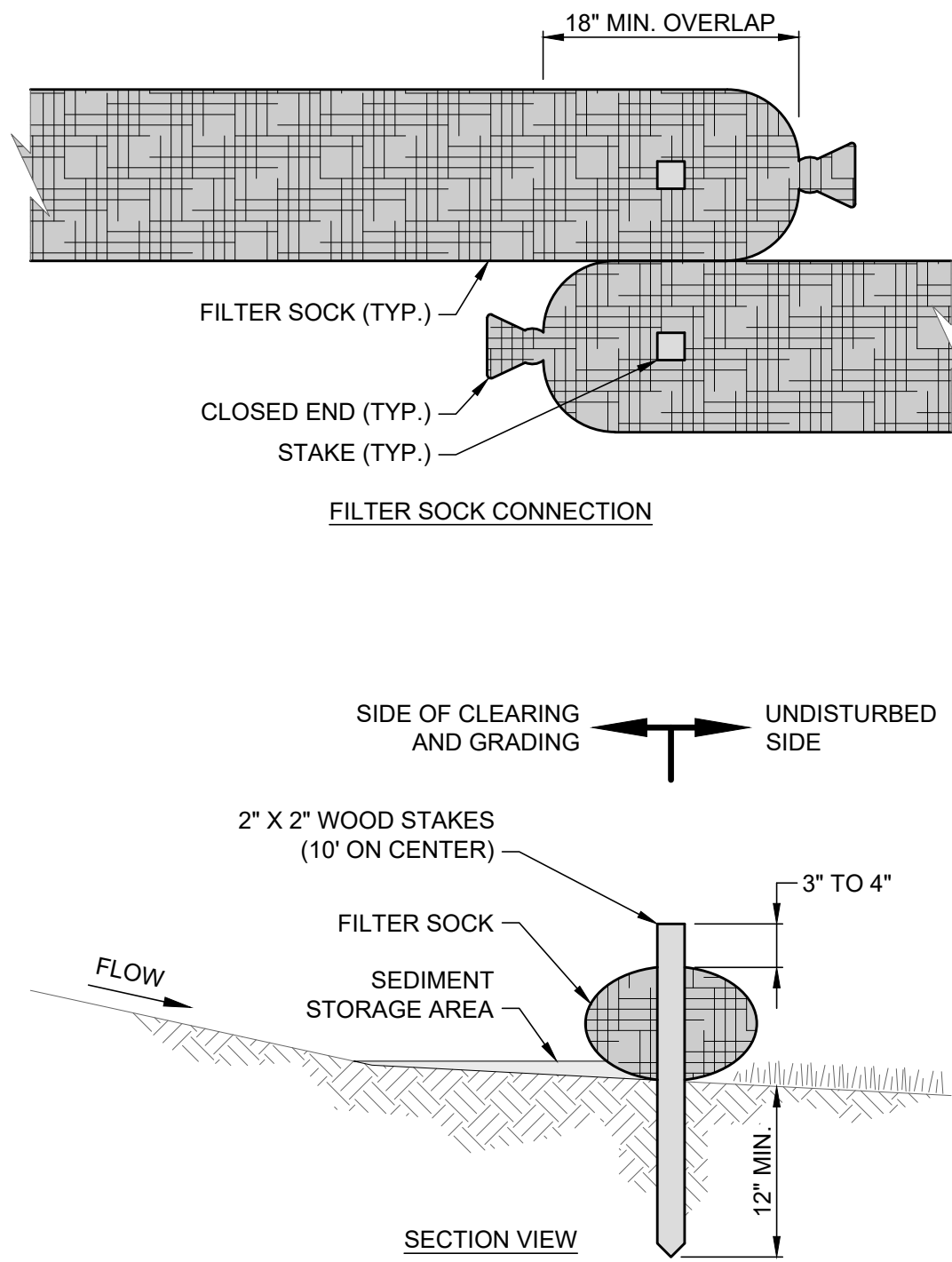
- SILT FENCE DETAIL**
SCALE: NONE
- PRESERVE VEGETATION FOR 5 FEET OR AS MUCH AS POSSIBLE UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
 - THE MAXIMUM DRAINAGE AREA PER 100 FEET OF SILT FENCE IS DEPENDENT ON THE SLOPE, BUT NO MORE THAN 1/2 ACRE. SILT FENCE CANNOT BE USED FOR DRAINAGE AREAS WITH SLOPES GREATER THAN 50%.
 - SILT FENCE MAY ONLY PASS RUNOFF AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, THEN CHANGE THE LAYOUT OF THE SILT FENCE, REMOVE ACCUMULATED SEDIMENT OR INSTALL OTHER PRACTICES.
 - SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, VERIFICATION FABRIC IS SECURELY ATTACHED TO FENCE POSTS, AND VERIFICATION FENCE POSTS ARE FIRMLY IN THE GROUND. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED 1/3 THE FENCE HEIGHT.

- SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
- THE SEED BED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIMESTONE OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED BETWEEN MARCH 1 AND MAY 31 OR AUGUST 1 AND SEPTEMBER 30. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. SEEDING SHOULD NOT BE APPLIED BETWEEN OCTOBER 1 AND NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. IF SEEDING MUST OCCUR, INCREASE THE SEEDING RATE BY 50% AND ANCHOR. APPLY ADDITIONAL MULCH AND IRRIGATION AS REQUIRED TO ENSURE GERMINATION.
- MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING.
- SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS.
- SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF SEEDING. DURING THIS PERIOD INSPECT FOR SOIL EROSION OR VEGETATION LOSS AND REPAIR BARE OR SPARSE AREAS, FILL GULLIES, RE-FERTILIZE, RE-SEED AND RE-MULCH AS NEEDED.
- ADEQUATE PERMANENT VEGETATION SHALL BE GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE BASED ON VISUAL INSPECTION.

PERMANENT SEEDING FERTILIZATION AND MOWING CHART				
MIXTURE	FORMULA	LB/AC.	TIME	MOW
CREeping RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	FALL, YEARLY, OR AS NEEDED	≥3"
TALL FESCUE	10-10-10	500		≥4"
TURF-TYPE FESCUE	10-10-10	500		
CROWN VETCH FESCUE	0-20-20	400	SPRING, AND YEARLY AFTER ESTABLISHED	DO NOT MOW
FLAT PEA FESCUE	0-20-20	400		

PERMANENT SEEDING SPECIES SELECTION		
SEED MIX	SEED RATE LB/AC.	NOTES:
GENERAL USE		
CREeping RED FESCUE	20 - 40	FOR CLOSE MOWING AND WATERWAYS WITH <2.0 FT./SEC. VELOCITY
DOMESTIC RYEGRASS	10 - 20	
KENTUCKY BLUEGRASS	20 - 40	
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
STEEP BANKS OR CUT SLOPES		
TALL FESCUE	40 - 50	
CROWN VETCH	10 - 20	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20 - 30	
FLAT PEA	20 - 25	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20 - 30	
ROAD DITCHES AND SWALES		
TALL FESCUE	40 - 50	
TURF-TYPE FESCUE	90	
KENTUCKY BLUEGRASS	5	
LAWN		
KENTUCKY BLUEGRASS	100 - 120	
PERENNIAL RYEGRASS	100 - 120	
KENTUCKY BLUEGRASS	100 - 120	FOR SHADED AREAS
CREeping RED FESCUE	100 - 120	

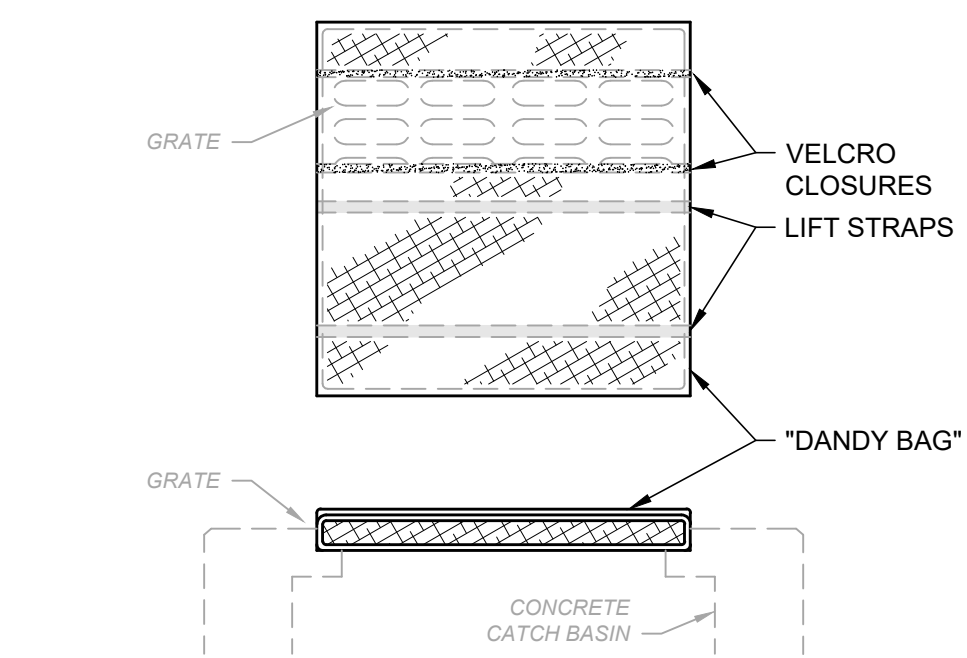
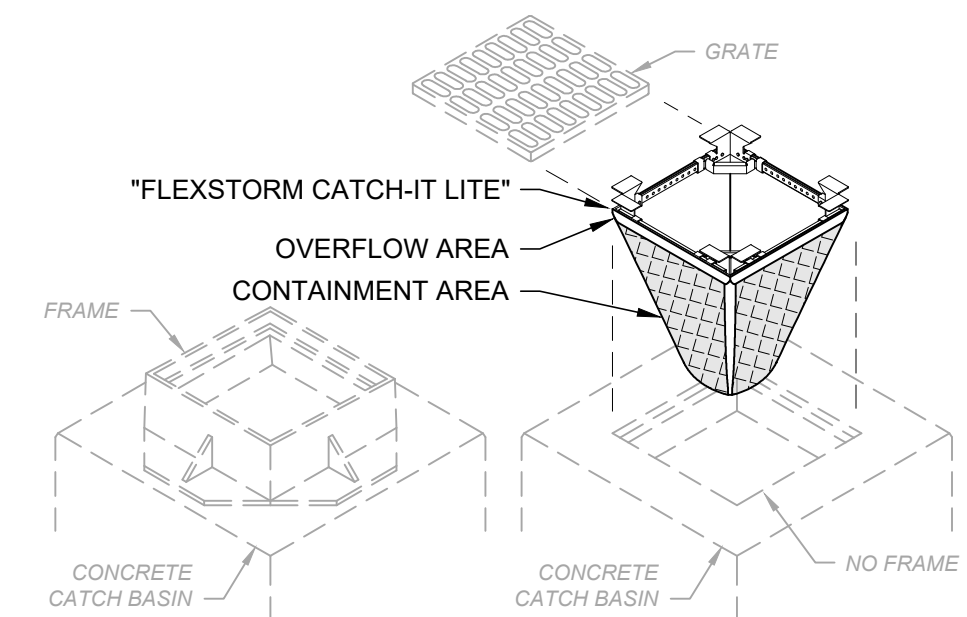
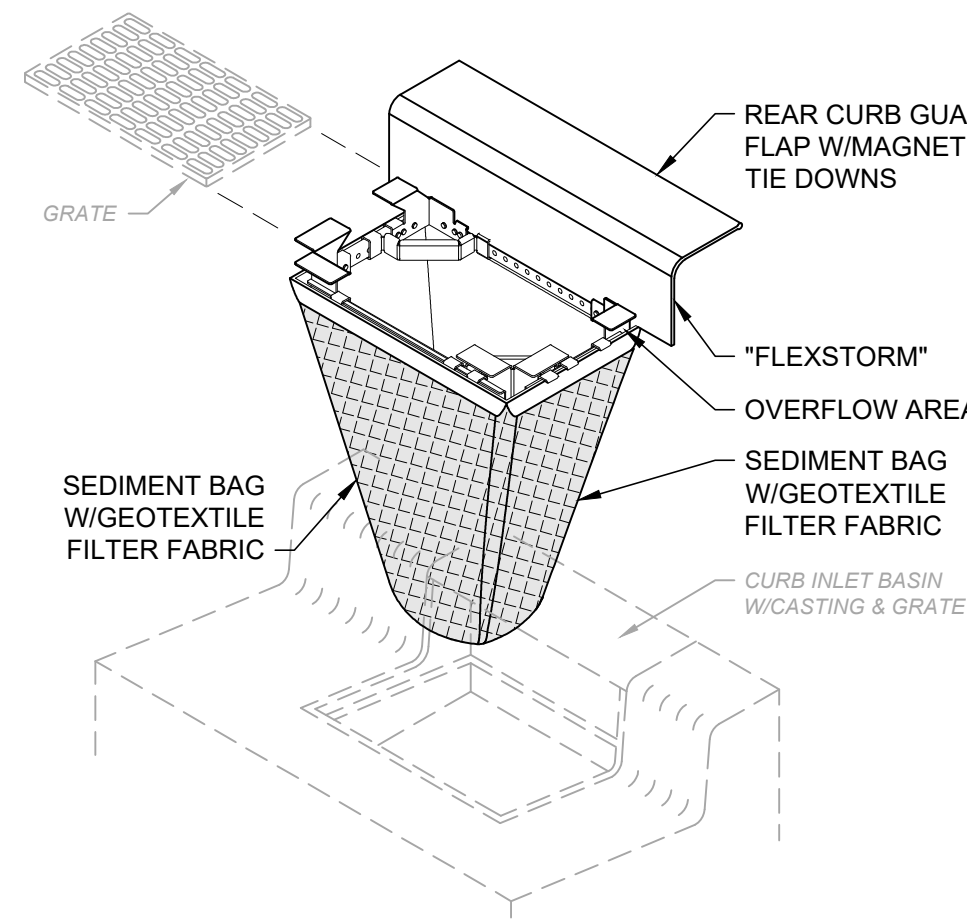
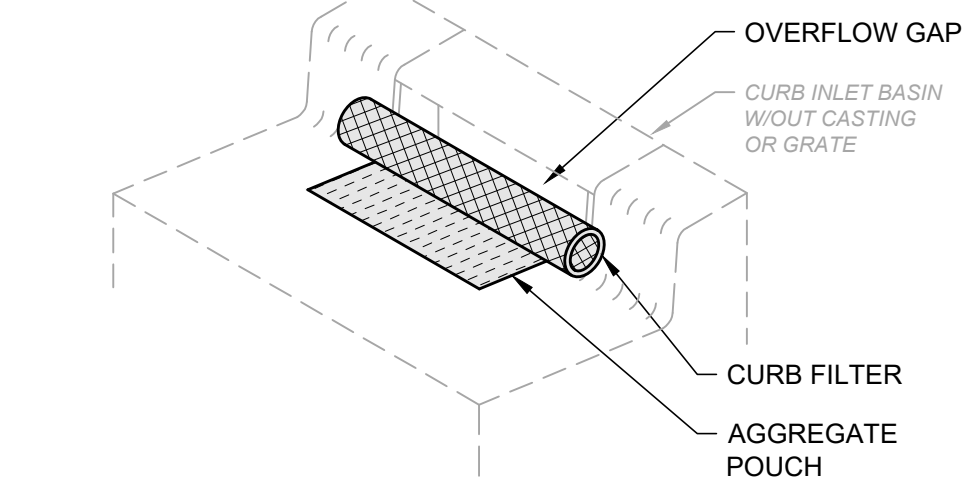
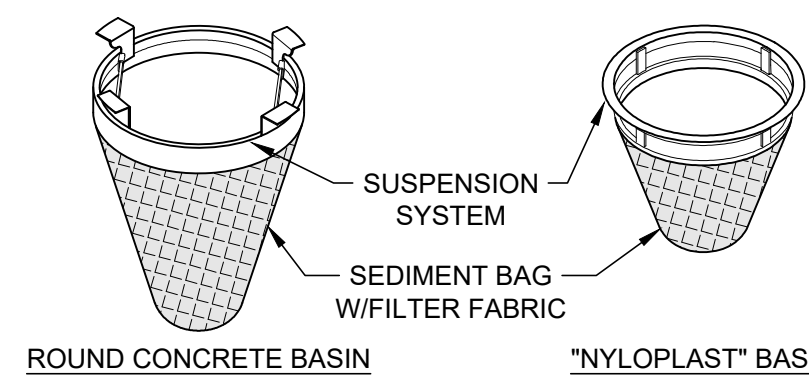
PERMANENT SEEDING NOTES



- NOTES:**
- FILTER SOCKS SHALL BE CONTINUOUS, TUBULAR, HDPE KNITTED MESH FILTERING MATERIAL, FILLED WITH COMPOST.
 - COMPOST SHALL BE WEED, PATHOGEN AND INSECT FREE. FREE OF REFUSE, CONTAMINANTS OR MATERIALS TOXIC TO PLANT GROWTH, BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER, AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".
 - FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES PARALLEL TO THE BASE OF THE SLOPE. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND MID-SLOPE.
 - THE FLAT DIMENSION OF THE SOCK SHALL BE AT LEAST 1.5 TIMES THE NOMINAL DIAMETER.
 - FILTER SOCKS SHALL BE PLACED AT LEAST 5' FROM THE TOE OF SLOPE FOR SEDIMENT DEPOSIT.
 - TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
 - BUILT UP SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED 1/3 THE FILTER SOCK HEIGHT.
 - BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 - WHEN A FILTER SOCK IS NO LONGER REQUIRED, IT SHALL BE DISPERSED ON-SITE.
 - THE MAXIMUM DRAINAGE AREA PER 100 FEET OF FILTER SOCK IS 1/2 ACRE AND IS DEPENDENT ON THE SLOPE FOLLOWING EITHER THE MANUFACTURER RECOMMENDATION OR THE GUIDANCE CHART BELOW:

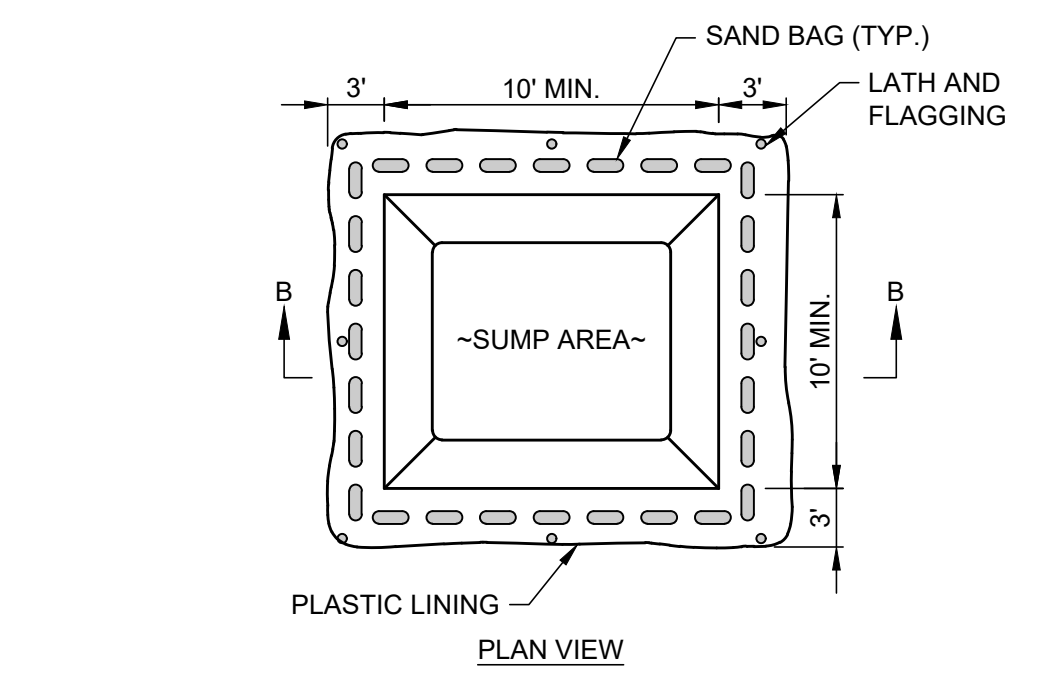
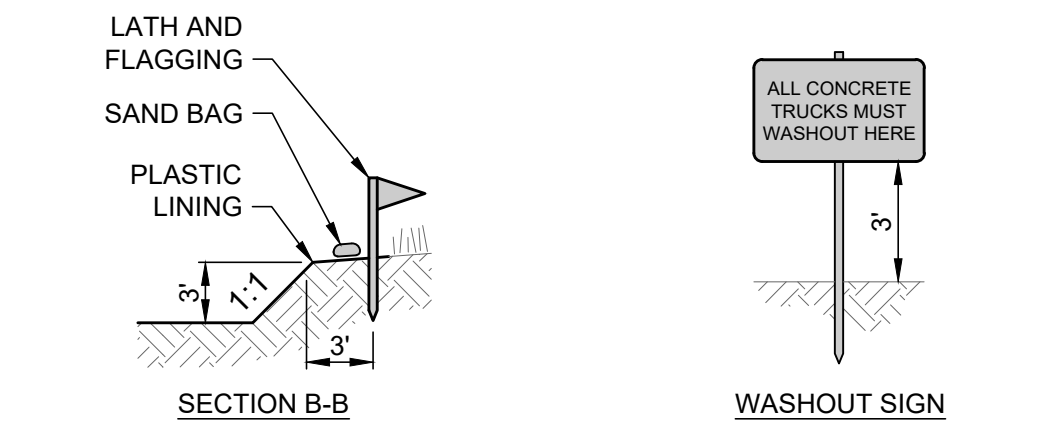
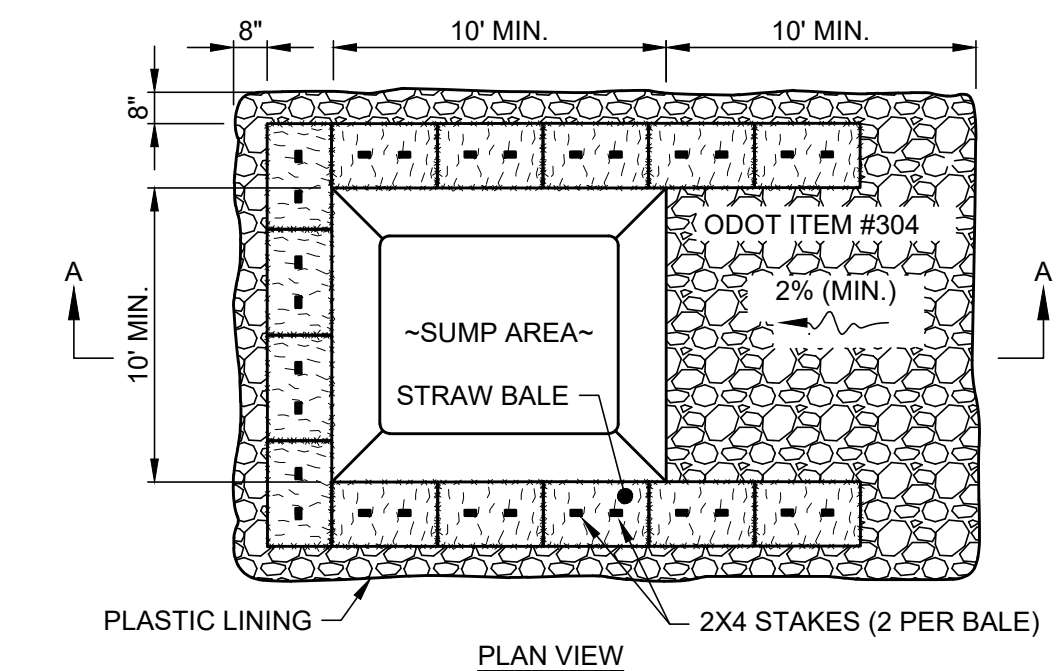
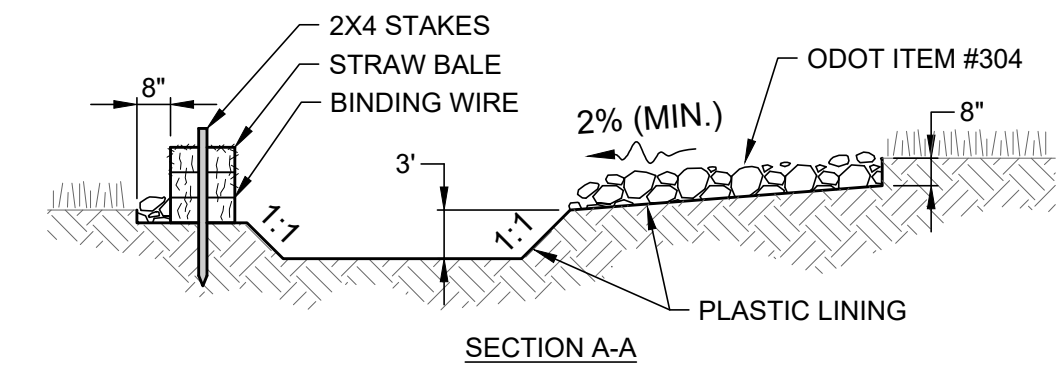
MAX. SLOPE LENGTH ABOVE FILTER SOCK					
SLOPE	RATIO (H:V)	8"	12"	18"	24"
0% - 2%	0 - 50:1	125'	250'	300'	350'
2% - 10%	50:1 - 10:1	100'	125'	200'	250'
10% - 20%	10:1 - 5:1	75'	100'	150'	200'
20% - 50%	5:1 - 2:1	N/A	50'	75'	100'
≥ 50%	≥ 2:1	N/A	25'	50'	75'

FILTER SOCK DETAIL
SCALE: NONE



- NOTES:**
- ALL NEW AND EXISTING STORM INLET BASINS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED.
 - INLET PROTECTION SHALL BE INSTALLED AS EACH STORM INLET IS CONSTRUCTED.
 - NOT ALL ITEMS SHOWN MAY APPLY OR DIFFERENT TYPES OR CONFIGURATIONS MAY BE REQUIRED. THE CONTRACTOR SHALL MEASURE EACH INLET TO CONFIGURE AND ASSEMBLE CUSTOMIZED INLET FILTERS.

INLET PROTECTION DETAIL
SCALE: NONE



- NOTES:**
- CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.
 - IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
 - CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
 - PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
 - CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
 - CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
 - PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
 - CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

CONCRETE WASHOUT DETAIL
SCALE: NONE



DATE	REVISION	NO

SCALE:	AS NOTED	DATE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
		1/16/2024	PAB	RJM	PAB

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
CARPENTER ROAD SSO ELIMINATION
ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO
SWPPP - 30 SERIES
SWPPP DETAILS (1 OF 2)

PROJECT NO: 231140	
SHEET NAME SWP-02	
SHEET 21	OF 22

DELEGATION OF AUTHORITY FOR EROSION AND SEDIMENT CONTROL

PROJECT NAME: _____

PROJECT ADDRESS: _____

I, _____, HEREBY DESIGNATE THE PERSON OR DESCRIBED POSITION BELOW TO BE A DULY AUTHORIZED REPRESENTATIVE FOR THE PURPOSE OF OVERSEEING COMPLIANCE WITH ENVIRONMENTAL REQUIREMENTS, INCLUDING THE OHIO EPA NPDES CONSTRUCTION GENERAL PERMIT, AT THE DESIGNATED PROJECT. THE DESIGNEE IS AUTHORIZED TO SIGN REPORTS, STORM WATER POLLUTION PREVENTION PLANS (SWP3) AND OTHER DOCUMENTS AS REQUIRED BY THE NPDES PERMIT.

NAME OF QUALIFIED PERSON AND/OR POSITION _____

COMPANY NAME _____ PHONE NO. _____

STREET ADDRESS _____

BY SIGNING THIS AUTHORIZATION, I CERTIFY UNDER THE PENALTY OF LAW THAT ALL REQUIRED DOCUMENTS WILL BE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON(S) WHO MANAGES THE SYSTEM OR IS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION TO BE SUBMITTED WILL BE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THERE ARE SUBSTANTIAL PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

COMPANY NAME _____ PHONE NO. _____

STREET ADDRESS _____

PRINT NAME AND TITLE _____

SIGNATURE _____ DATE _____

SUBCONTRACTOR AGREEMENT FOR EROSION AND SEDIMENT CONTROL

PROJECT NAME: _____

PROJECT ADDRESS: _____

BY SIGNING THIS AGREEMENT, I CERTIFY UNDER THE PENALTY OF LAW THAT I HAVE READ AND UNDERSTAND THE TERMS AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWP3) FOR THE DESIGNATED PROJECT AND AGREE TO FOLLOW THE PRACTICES DESCRIBED. AS A SUBCONTRACTOR, I AM REQUIRED TO COMPLY WITH THE SWP3 FOR ANY WORK I PERFORM AT THE PROJECT. IT IS MY RESPONSIBILITY TO OBTAIN A COPY OF THE SWP3 FROM THE CONTRACTOR AND TO ADVISE MY EMPLOYEES WORKING ON THIS PROJECT OF THE REQUIREMENTS. I AM AWARE THERE ARE SUBSTANTIAL PENALTIES OR LOSS OF CONTRACT FOR VIOLATING ANY CONDITION OF THE SWP3, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

COMPANY NAME _____ PHONE NO. _____

STREET ADDRESS _____

PRINT NAME AND TITLE _____

SIGNATURE _____ DATE _____

DESCRIPTION OF CONSTRUCTION SERVICE(S) I AM TO PROVIDE:

FINAL CERTIFICATION AND NOTIFICATION FOR EROSION AND SEDIMENT CONTROL

PROJECT NAME: _____

PROJECT ADDRESS: _____

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED FOR THE DESIGNATED PROJECT. BASED ON MY INQUIRY OF THE PERSON(S) WHO MANAGED THE SYSTEM OR DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THERE ARE SUBSTANTIAL PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

COMPANY NAME _____ PHONE NO. _____

STREET ADDRESS _____

PRINT NAME AND TITLE _____

SIGNATURE _____ DATE _____

GRADING AND STABILIZATION ACTIVITY LOG

PROJECT NAME: _____ SHEET NO.: _____

PROJECT ADDRESS: _____

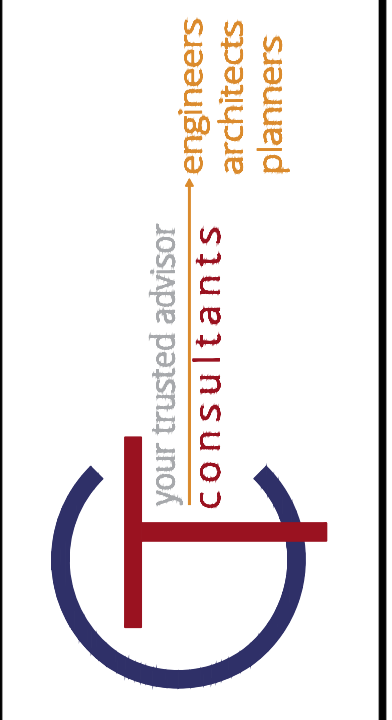
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EROSION AND SEDIMENT CONTROL AMENDMENT LOG

PROJECT NAME: _____ SHEET NO.: _____

PROJECT ADDRESS: _____

AMENDMENT NO.	DATE OF AMENDMENT	DESCRIPTION OF AMENDMENT	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION (ATTACH SKETCH IF NECESSARY)



NO	REVISION	DATE

SCALE: NONE	DATE: 1/16/2024	DESIGNED BY: PAB	DRAWN BY: RLM	CHECKED BY: PAB
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ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
 CARPENTER ROAD SSO ELIMINATION
 ASHTABULA COUNTY SAYBROOK TOWNSHIP, OHIO

SWPPP - 30 SERIES
SWPPP DETAILS (2 OF 2)

PROJECT NO:	
231140	
SHEET NAME	
SWP-03	
SHEET	OF
22	22