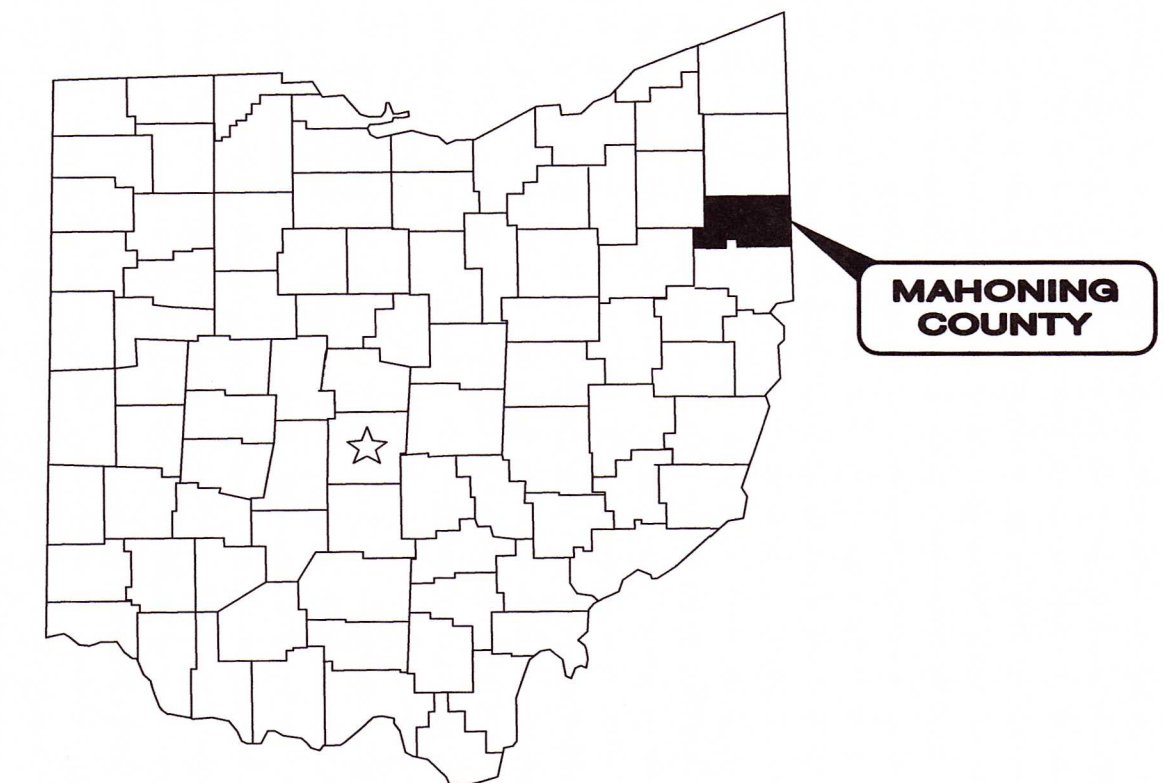


VILLAGE OF LOWELLVILLE MAHONING COUNTY, OHIO



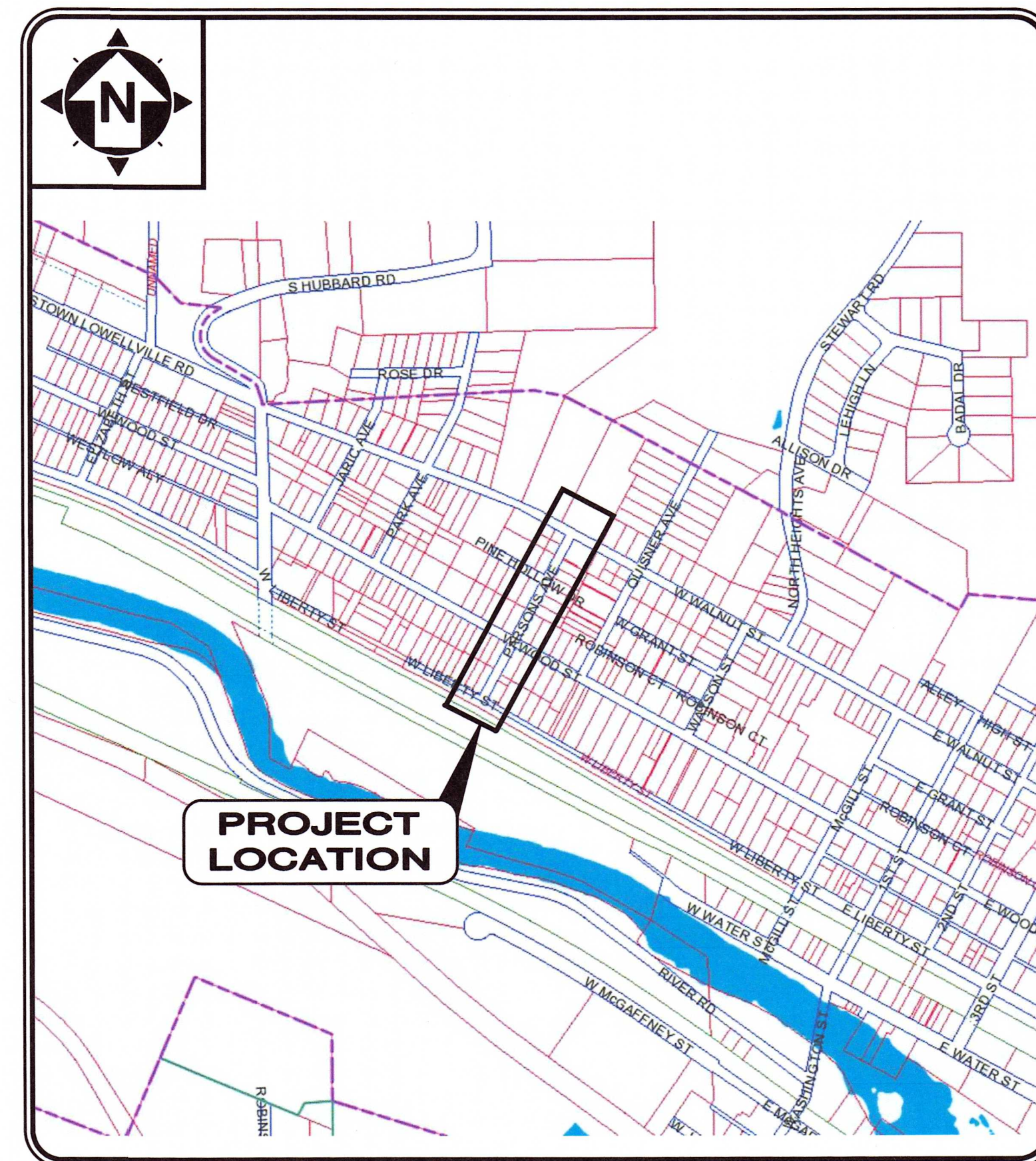
Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	CONTROL SHEET – SHEET INDEX
3	GENERAL NOTES
4	GENERAL NOTES
5	PLAN AND PROFILE
6	PLAN AND PROFILE
7	STANDARD DETAILS
8	STANDARD DETAILS
9	EROSION & SEDIMENTATION DETAILS

B401200414-00B & B401200414-00E

1. AQUA OHIO — STRUTHERS
2. DOMINION ENERGY OHIO
3. AT&T — OHIO
4. DOMINION ENERGY OHIO — YOUNGSTOWN
5. LEVEL 3 COMMUNICATIONS
6. WINDSTREAM OHIO
7. CHARTER COMM (SPECTRUM/TIME WARNER)
8. MCI
9. VILLAGE OF LOWELLVILLE

1. UNDERGROUND BUILDING SERVICE 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 THE OHIO UTILITY PROTECTION SERVICES @ 1-800-362-2764 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

APRIL 2025



LOCATION MAP

NOT TO SCALE



APPROVALS:

MAYOR
JAMES IUDICIANI SR.

05/20/2025
DATE

VILLAGE ADMINISTRATOR
JOANN ESENWEIN

05/20/2025
DATE

FISCAL OFFICER
TINA STRAIGHT

05/20/2025
DATE

COUNCIL MEMBERS:

ROBERT COPPOLA	RYAN MCNICHOLAS
DON D'ONOFRIO	KEITH McCAUGHTRY
JOSEPH DONATELLI	RONALD ROTUNNO

VILLAGE OF LOWELLVILLE

APPROVED BY: MICHAEL SZENROBN

THE VILLAGE OF LOWELLVILLE WASTEWATER SUPERINTENDENT
THIS 20TH DAY OF MAY, 2025.

ENGINEER:

VERDANTAS
908 SAHARA TRAIL, SUITE 2
YOUNGSTOWN, OH 44514
(330) 608-0759
(330) 3302729330
CHRISTOPHER KOGELENIK, P.E.

GENERAL NOTE:

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.



verdantas

YOUNGSTOWN, OHIO
330-272-9330

ISSUE DATE: APRIL 2025	REV.	DESCRIPTION	DATE
	01	ADDENDUM 2	6-6-25
SCALE: AS SHOWN			
DESIGNED BY: CMK			
DRAWN BY: BEK			
CHECKED BY: CMK			

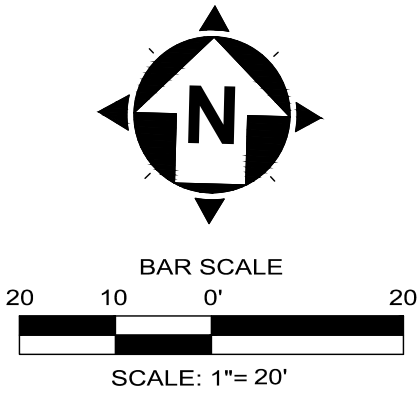
SANITARY SEWER IMPROVEMENT PROJECT
PARSONS AVENUE
VILLAGE OF LOWELLVILLE, OHIO

COVER SHEET I

PROJECT NO.	
232475	
SHEET NAME	
COVER	
SHEET	OF
1	9



STATE OF OHIO, COUNTY OF
MAHONING, VILLAGE OF
LOWELLVILLE
BEING A PART OF GREAT LOT 76



LEGEND:

- CENTERLINE MONUMENT
- I.PIN TO BE SET
- I.PIN FOUND
- I.PIPE FOUND
- EX. RW
- LIMITS OF PUBLIC R/W
- CENTERLINE PUBLIC R/W
- PARCEL LINES
- SUBDIVISION LINES

NOTES:

- THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY BE SUBJECT TO EASEMENTS AND OTHER RESTRICTIONS, EITHER RECORDED OR UNRECORDED. THE SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS, RECORD ENCUMBRANCES, RESTRICTIVE COVENANTS OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
- THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
- THE PROJECT CONTROL COORDINATE SYSTEM IS BASED UPON THE FOLLOWING: · HORIZONTAL DATUM - PROJECT CONTROL COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED BY GPS/RTK OBSERVATIONS UTILIZING THE OHIO COORDINATE SYSTEM OF 1983 (ZONE 3401-OHIO NORTH). OHIO STATE PLANE GRID COORDINATE VALUES ARE EXPRESSED IN UNITS OF U.S. SURVEY FEET. · VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE SURVEY AND STREET ALIGNMENTS SHOWN HEREON WERE OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR OTHER PURPOSES. THE PROPERTY LINES SHOWN HEREON OUR SUBJECT TO AN ACCURATE BOUNDARY SURVEY AND ARE BASED ON FOUND MONUMENTS LOCATED IN THE FIELD BEST FIT TO THE RECORDS.
- AN ALTA/ NSPS LAND TITLE SURVEY WAS NOT PERFORMED.
- EASEMENTS, RECORD RESTRICTIONS AND SETBACKS WERE NOT ADDRESSED DURING THIS SURVEY.
- ALL DIMENSIONS GIVEN ARE EXPRESSED IN US SURVEY FEET.
- THE BENCHMARK ELEVATIONS SHOWN IN THE PROJECT CONTROL TABLE ARE AT THE TOP OF THE RED CAP OF THE IRON PIN SET.
- IRON PINS SET ARE 5/8" IRON PINS SET WITH A RED CAP INSCRIBED WITH "CT REF"

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	506381.1686	2508760.9218	835.18	Iron Pin (Set)
2	507054.7530	2509122.4410	879.43	Iron Pin (Set)
3	506836.0320	2509003.3540	855.88	Iron Pin (Set)
4	506957.3680	2508840.5810	840.21	Iron Pin (Set)
5	506615.1724	2508926.6312	841.33	Benchmark (Set)
6	507067.2929	2509146.6337	883.03	Benchmark (Set) O IN OPEN ON
20	507140.6859	2509082.5254	0.00	Iron Pin (Fnd)
21	507133.6244	2509012.7155	0.00	Iron Pin (Fnd)
22	506925.7322	2509388.4259	0.00	Iron Pin (Fnd)
23	506913.0068	2509006.3033	0.00	Iron Pipe (Fnd)
24	506650.1022	2508864.3469	0.00	Iron Pipe (Fnd)

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
25	506828.9266	2508534.7612	0.00	Drill Hole (Fnd)
26	506939.3730	2509066.6465	0.00	Iron Pin (Fnd)
27	506999.1740	2509053.3368	0.00	Iron Pin (Fnd)
28	506745.1454	2508961.2886	844.79	Mag Nail (Set)
29	506615.1241	2508845.5680	839.29	Mag Nail (Set)
30	505396.9781	2511086.4266	0.00	Monument Box (Fnd)
31	506481.1521	2508818.2572	0.00	Iron Pin (Fnd)
32	506429.5779	2508658.8076	0.00	Iron Pin (Fnd)
904	506828.8851	2508534.6620	0.00	Drill Hole (Fnd)
905	507140.6800	2509082.5700	0.00	Iron Pin (Fnd)

ISSUED FOR:		ADDEN. 2	
REV.	DESCRIPTION	DATE	
01	ADDENDUM 2	6-6-25	
SCALE:	AS SHOWN		
DESIGNED BY:	CMK		
DRAWN BY:	BEK		
CHECKED BY:	CMK		

SANITARY SEWER IMPROVEMENT PROJECT
PARSONS AVENUE
VILLAGE OF LOWELLVILLE, OHIO

PROJECT NO.	
232475	
SHEET NAME	
CONTROL	
SHEET	OF
2	9

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO INSTALL ALL SANITARY SEWERS, MANHOLES, ETC. AS SHOWN OR IMPLIED ON THE DRAWINGS AND PROVIDE A COMPLETE OPERATIVE SYSTEM TO THE SATISFACTION OF THE OWNER. RESTORATION OF ALL SURFACES AND LANDSCAPING IN A PROFESSIONAL MANNER SHALL BE INCLUDED IN THE PAY ITEMS FOR THE PROJECT.
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. DAILY CLEAN-UP AND FINAL CLEAN-UP SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
6. ALL DISTURBED SIGNS, GUARDRAIL, MAIL AND/OR PAPER BOXES, DRIVES AND DRIVE CULVERTS SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED.
7. ALL DISTURBED AND/OR DAMAGED UTILITIES, STORM SEWER PIPES & APPURTENANCES, PAVEMENT, BERMS AND DITCHES SHALL BE REPAIRED AS DIRECTED.
8. PRESERVATION OF VEGETATION SHALL TAKE PRECEDENCE OVER REMOVAL. REMOVE ONLY THOSE TREES AND SHRUBS NECESSARY TO COMPLETE CONSTRUCTION.
9. 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.
10. NO MORE THAN 50 FEET OF TRENCH SHALL REMAIN OPEN AT ONE TIME. MATERIALS EXCAVATED DURING TRENCHING SHALL BE PILED ON THE UPHILL SIDE OF THE TRENCH.
11. TRENCHES WITHIN AND ADJACENT TO THE ROADWAY OR WITHIN THE DRIVEWAYS SHALL BE BACKFILLED WITH COMPACTED GRANULAR FILL. SEE DETAILS AND PLAN NOTES.
12. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND/OR GRADE AREAS TO ELIMINATE THE PONDING OF WATER.
13. 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 AS SOON AS POSSIBLE.
14. ALL ELEVATIONS AND DISTANCES ARE BELIEVED TO BE ACCURATE. HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL INFORMATION SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL STAKE AND ESTABLISH CONTROL FOR SANITARY SEWER LOCATIONS, AND SHALL INCLUDE THESE COSTS IN HIS BID. THE SURVEYOR SHALL RUN AN INDEPENDENT HORIZONTAL AND VERTICAL TRAVERSE THROUGH ALL BENCHMARKS AND OR CONTROL POINTS PROVIDED AND PROVIDE A RECORD COPY OF THE FIELD BOOK TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR POSSIBLE CONFLICTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS THEY ARE DISCOVERED.
15. ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO BE PROTECTED AND/OR HELD IN PLACE. IF DAMAGED, THE UTILITIES ARE TO BE COMPLETELY RESTORED AT THE EXPENSE OF THE CONTRACTOR.
16. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY IF FIELD LOCATED UTILITIES AFFECT THE ABILITY TO CONSTRUCT THE PROJECT PER THE PLANS.
17. THE CONTRACTOR MUST ALERT THE UTILITIES PROTECTION SERVICE AT 1-800-362-2764 AND OGPUP 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.
18. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

THE FOLLOWING UTILITIES ARE KNOWN TO EXIST WITHIN THE LIMITS OF CONSTRUCTION:

DOMINION ENERGY OHIO
320 SPRINGSIDE DR, SUITE 320
AKRON, OHIO 44333
(330) 664-2678
ATTN: KEVIN BACH

AQUA OHIO, INC.
650 SOUTH AVENUE
BOARDMAN, OH 44512
(330) 726-8151

AT&T OHIO
45 ERIEVIEW PLAZA, RM 1600
CLEVELAND, OH 44114
(216) 298-1513

OHIO EDISON COMPANY
730 SOUTH AVENUE
YOUNGSTOWN, OH 44502
(330) 747-2071
ATTN: NANCY FRASCO

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALLOWER EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER. THE COST FOR SECURING AND MAINTAINING THE DISPOSAL SITE SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.

20. THE CONTRACTOR SHALL WORK WITHIN DESIGNATED STREET RIGHT-OF-WAYS, UTILITY EASEMENTS, AND CONSTRUCTION EASEMENTS WHILE CONDUCTING THIS PROJECT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MINIMIZE LAND AND PROPERTY DISTURBANCE WITHIN SAID RIGHT-OF-WAYS AND EASEMENTS.

THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT CONTACTING THE VILLAGE OF LOWELLVILLE. (330) 536-6415 A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITY TO ARRANGE FOR OBSERVATION. IF ANY CHANGE IN WORK SCHEDULE BECOMES NECESSARY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE VILLAGE OF LOWELLVILLE TO AVOID UNNECESSARY OBSERVATION COSTS. IF NO NOTIFICATION IS MADE IN REGARDS TO CANCELLATION OF WORK, THE CONTRACTOR WILL BE CHARGED FOR THE TIME INCURRED.

21. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED FROM 7:00 AM TO 7:00 PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE OWNER AND THE ENGINEER.

22. 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.

23. PROPERTY LINES AND EXISTING UTILITY EASEMENTS ARE SHOWN FOR GENERAL LOCATION ONLY AND ARE BASED ON TAX MAP LOCATION. INDIVIDUAL PROPERTY SURVEYS TO LOCATE PROPERTY LINES HAVE NOT BEEN COMPLETED FOR THIS PROJECT.

24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING STRUCTURES, SUBGRADE PIPING, OR PROPERTY, AND SHALL REPAIR OR REPLACE ALL DAMAGES AT HIS OWN EXPENSE.

25. NO BACKFILLING OF ANY TRENCHES OR EXCAVATIONS WILL BE PERMITTED WITHOUT TAMPING EQUIPMENT BEING USED. FLOODING, JETTING, OR PUDDLING OF BACKFILL WILL NOT BE PERMITTED.

26. SLAG PRODUCTS WILL NOT BE PERMITTED FOR USE AS PIPE BEDDING OR BACKFILL MATERIAL.

27. ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
- SANITARY SEWER 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 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 FIELD ADJUSTMENTS WITH THE SANITARY ENGINEER'S OFFICE FIELD REPRESENTATIVE.

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 STANDARDS.

5. SHOP DRAWINGS OF ALL MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR TO PURCHASE.

6. NOTIFY THE VILLAGE OF LOWELLVILLE SEVENTY TWO (72) HOURS PRIOR TO STARTING CONSTRUCTION.

7. NO CONSTRUCTION IS PERMITTED UNTIL WRITTEN AUTHORIZATION HAS BEEN RECEIVED FROM THE E.P.A.

8. THE CONTRACTOR SHALL SCHEDULE INSPECTION WITH REGULATORY AGENCIES SUCH THAT WORK PROGRESS IS NOT AFFECTED BY INSPECTION REQUIREMENTS.

9. EXCAVATION OUTSIDE NORMAL WORK LIMITS SHALL NOT BE COMMENCED WITHOUT APPROVAL OF THE VILLAGE OF LOWELLVILLE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING SEWAGE SYSTEM.

11. ROOF DRAINS, FOUNDATION DRAINS, AND ANY OTHER CLEAR-WATER DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER SYSTEM.

12. PVC GRAVITY SANITARY SEWER SHALL BE SDR 35 (LESS THAN 15' BURY) AND SDR 26 (GREATER THAN 15' BURY). PVC PIPE AND FITTINGS SHALL COMPLY WITH ASTM D3034 WITH ASTM D3212 JOINTS. PVC SANITARY SEWER SHALL BE INSTALLED WITH BEDDING CLASS 1 PER ASTM D-2321.

13. ALL FLEXIBLE PIPE GRAVITY SEWERS SHALL BE SUBJECTED TO A PIPE DEFLECTION TEST. THE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE VILLAGE AND SHALL NOT OCCUR UNTIL AT LEAST 30 DAYS AFTER THE SOIL/PIPE SYSTEM HAS BEEN INSTALLED. THE TEST SHALL CONSIST OF HAND PULLING A MANDREL DEVICE THROUGH THE SEWER. THE MANDREL SHALL BE EITHER A FULL CIRCLE OR 9-ARM TYPE WHICH HAS OUTSIDE DIMENSIONS WHICH ARE 95% OF THE I.D. OF THE PIPE BEING TESTED. PIPE FAILING THE MANDREL TEST SHALL BE REPLACED AT NO COST TO THE VILLAGE (INCLUDING EXCAVATION, SITE RESTORATION, RE-TESTING ETC). TESTS SHALL BE IN ACCORDANCE WITH GLUMRB 33.85 AND PROJECT SPECIFICATIONS.

14. CONTRACTORS MUST HOLD TO THE GRADES AND ELEVATIONS ESTABLISHED BY THE ENGINEER.

15. SANITARY SEWER MUST BE 10 FEET HORIZONTALLY (MEASURED EDGE TO EDGE) FROM WATER LINES, AND MUST MAINTAIN A MINIMUM 18 INCH VERTICAL CLEARANCE AT ANY WATERLINE CROSSING.

16. SANITARY SEWER MUST BE 4 FEET HORIZONTALLY FROM STORM SEWERS AND MUST MAINTAIN A MINIMUM 1' VERTICAL CLEARANCE AT ANY STORM SEWER CROSSINGS.

17. CONTRACTORS MUST CONDUCT INFILTRATION OR EXFILTRATION TESTS IN ACCORDANCE WITH OHIO EPA REGULATIONS AND IN THE PRESENCE OF A DESIGNATED REPRESENTATIVE OF THE VILLAGE. 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 PROJECT SPECIFICATIONS.

18. IF APPROVED BY THE ENGINEER, AIR TESTING MAY BE PERFORMED ON SANITARY PIPE (INSTEAD OF EXFILTRATION/INFILTRATION TESTING). AIR TESTING SHALL COMPLY WITH ASTM F1417 FOR PLASTIC PIPE AND ASTM C828 FOR CLAY PIPE. CONCRETE PIPE SHALL NOT BE SUBJECTED TO AIR TESTING. TESTING SHALL ALSO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

19. 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.

20. 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.

21. GRANULAR BEDDING SHALL BE USED PER SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

22. 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.

23. MANHOLES SHALL BE CONSTRUCTED WITH PERMANENT GRADE ADJUSTMENTS BY USE OF CAST-IN-PLACE OR PRECAST ADJUSTING COLLARS.

24. MANHOLE JOINTS SHALL BE WATERTIGHT AND COMPLY WITH ASTM C-443.

25. ALL SANITARY MANHOLES WITH ELEVATION DROPS OF 24 INCHES OR MORE SHALL BE CONSIDERED DROP MANHOLES AND LABELED AS SUCH ON PLAN WITH CORRESPONDING DETAIL. IN ACCORDANCE WITH GLUMRB 34.2. (TEN STATE STANDARDS)

26. ALL MANHOLE SECTIONS SHALL BE VISUALLY EXAMINED FOR CRACKS OR DAMAGE THAT WOULD COMPROMISE THE WATER TIGHTNESS OF THAT SECTION. ANY DAMAGED SECTION SHOULD BE RETURNED TO THE MANHOLE MANUFACTURER. TESTING SHALL CONFORM TO 10 STATES STANDARDS SECTION 34.7 AND ASTM C-1244.

27. 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.

28. LATERALS SHALL BE INSTALLED AT A MINIMUM 2.0% GRADE (1/4 IN/FT). MINIMUM LATERAL PIPE SIZE SHALL BE 6 INCH DIAMETER.

29. LOCATION AND LENGTHS OF ALL LATERALS SHALL BE GIVEN ON ALL CUT SHEETS AND AS-BUILT DRAWINGS.

30. MANHOLES TO BE ABANDONED SHALL HAVE CONES TAKEN OFF, DISPOSE OF CONES AND CASTINGS, FILL INLET AND OUTLET PIPES WITH CONCRETE (3 LF UP AND DOWN STREAM), THEN FILL THE REMAINING EXISTING MANHOLE / BASE SECTIONS WITH COMPACTED ODOT 304 AGGREGATE STONE.
- 1
- MANHOLE NOTES:
1. ALL PRECAST CONCRETE SHALL BE REINFORCED IN ACCORDANCE WITH THE LATEST REVISIONS OF A.S.T.M. DESIGNATION C478.

2. ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED AND FURNISHED AS SOLID SECTION WITHOUT LIFT HOLES OF ANY KIND.

3. INTERIOR - THOROSEAL INSIDE OF SANITARY MANHOLES, FULL DEPTH (ANY COLOR BUT GREY). ALL JOINTS AND CONNECTIONS TO BE WATER-PLUGGED.

4. ALL PRECAST CONCRETE SANITARY SEWER STRUCTURES, OTHER THAN STORM SEWER CATCH BASIN STRUCTURES, SHALL BE PRECAST USING A CONCRETE ADMIXTURE SUCH AS XYPEX CRYSTALLINE ADMIXTURE OR AN APPROVED EQUAL WHICH WILL ACT AS A WATERPROOF AGENT AND HYDROGEN SULFIDE INHIBITOR.

5. FRAME AND COVER SHALL BE OF HEAVY DESIGN (475 LBS MIN. TOTAL WEIGHT). BEARING AREAS SHALL BE FINISHED SMOOTH AND FITTED SO AS TO PROVIDE A FIRM AND EVEN SEAT FOR ALL PORTIONS OF THE COVER IN THE FRAME. EACH COVER SHALL SEAT IN THE FRAME WITHOUT ROCKING AND SHALL BE MARKED AS A MATCHED FRAME AND COVER BEFORE DELIVERY TO THE PROJECT. THE BASE OF THE FRAME SHALL BE SET IN A FULL BED OF PORTLAND CEMENT MORTAR AND SO ADJUSTED TO CONFORM TO THE FINISHED PAVEMENT OR SHOULDER ELEVATION AND SLOPE. CASTINGS MEET THE REQUIREMENTS AND DESIGNED ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THOSE SHOWN HEREON SHALL BE PROVIDED.

6. STEPS SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS. ALL STEPS SHALL HAVE A DEPRESSED THREAD OF A 1/2" MIN. CLEAT HEIGHT AT THE ENDS. STEPS INSTALLED IN FRESH CONCRETE SHALL BE EMBEDDED TO MINIMUM DEPTH OF 4". STEPS INSTALLED IN MORTAR JOINTS SHALL BE EMBEDDED TO A MINIMUM DEPTH OF 7". FRICTION-FIT STEPS WITH A 1/2" DIAMETER REBAR MAY BE USED IN PRECAST MANHOLES. THE RECEIVING HOLES FOR FRICTION-FIT STEPS SHALL NOT PENETRATE THE MANHOLE WALL. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO TEST LOAD MAXIMUM OF ONE STEP PER MANHOLE TO A PROOF LOAD OF 400 LBS. IN DIRECT PULL. THE EQUIPMENT AND METHOD USED SHALL MEET THE APPROVAL OF THE ENGINEER. IF THE SELECTED STEP FAILS THE PULLOUT TEST, THE REMAINING STEPS IN THAT MANHOLE SHALL ALSO BE TESTED. ALL STEPS NOT PASSING THE PULLOUT TEST SHALL BE REMOVED AND A NEW STEP INSTALLED AND TESTED TO THE SATISFACTION OF THE ENGINEER. COST OF TESTING SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE MANHOLE.

7. DROP PIPE, WHEN SPECIFIED ON THE PLANS, SHALL BE CONSTRUCTED AS SHOWN.
- RESTORATION NOTES:
1. ALL MATERIALS DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND FASHION. DISPOSING OF DEBRIS ON PRIVATE PROPERTY AND/OR ON AN UNAPPROVED LANDFILL IS NOT ACCEPTABLE.

2. PROVIDE SOIL EROSION BARRIERS AS REQUIRED FOR CONSTRUCTION, AS SPECIFIED AND AS DETAILED IN THESE PLANS.

3. ALL DEWATERING FLOWS ARE TO BE KEPT FREE OF SILT, SEDIMENT, DEBRIS AND OTHER POLLUTANTS THROUGH APPROPRIATE MEANS (SETTLING BASINS, FILTERS, ETC.).

4. ONLY WATER WILL BE USED FOR DUST CONTROL. NO SEPARATE PAYMENT WILL BE MADE.
- STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER MICHAEL KOEHLER
E-70984

verdantas

908 SAHARA TRAIL, SUITE 2
YOUNGSTOWN, OHIO
330-272-9330

REVISIONS			
REV.	DESCRIPTION	DATE	
01	ADDENDUM 2	6-5-25	
ISSUED FOR: ADDEN. 2			
ISSUE DATE:	JUNE 2025	SCALE:	AS SHOWN
DESIGNED BY:	CMK	DRAWN BY:	BEK
CHECKED BY:	CMK		

SANITARY SEWER IMPROVEMENT PROJECT

PARSONS AVENUE

VILLAGE OF LOWELLVILLE, OHIO

GENERAL NOTES

PROJECT NO.	
232475	
SHEET NAME	
GN-1	
SHEET	OF
3	9
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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.
- A.

ALL GRASS AREAS ARE TO BE RESTORED UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.
- B.

THE COMPOSITION OF SEED MIXTURE SHALL CONFORM TO THE PROJECT DETAILS 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, THE LOCATION AND SIZE OF WHICH ARE DETAILED ON THE PLANS, 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.

SEDIMENT PONDS, SEDIMENT TRAPS, AND PERIMETER SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING. THEY SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE RE-ESTABLISHED. NO SEDIMENT CONTROLS SHALL BE PLACED IN A STREAM.
5.

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.
6.

CEMENT WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. ALL WASH WATER SHALL BE COLLECTED IN AN APPROVED, DESIGNATED CONTAINER PROVIDED BY THE CONTRACTOR, AND PLACED IN THE DESIGNATED LOCATIONS.
7.

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.
8.

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.
9.

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. SEDIMENT SHALL BE REMOVED FROM ROADWAYS AT LEAST DAILY, OR MORE OFTEN IF REQUESTED BY THE OWNER.

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 CONTRUCTION/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.

STOCKPILED TOPSOIL AND EXCAVATED MATERIAL IS TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING OR COVERED WITH ANCHORED STRAW MULCH.
2.

FINAL GRADING WILL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
3.

REMOVE ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION: PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.
4.

DISTURBED LAND SHALL BE TEMPORARILY STABILIZED BY SEEDING AND/OR MULCHING.
5.

BACKFILL TRENCHES IMMEDIATELY AFTER EXCAVATION. SEED AND MULCH TRENCHES WITHIN TWO WEEKS AFTER TRENCHES ARE BACKFILLED.
6.

SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM DRAIN SYSTEM. FOR CONSTRUCTION OCCURRING NEAR STORM DRAIN INLETS, EROSION CONTROL MEASURES, SUCH AS SILT FENCES, ROCK CHECKS, SEDIMENT BASINS, ETC., SHALL BE USED TO PREVENT SILT FROM ENTERING THE STORM DRAIN.

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.

EROSION & SEDIMENTATION CONTROL NOTES:

EROSION/SEDIMENT/DUST CONTROL PRACTICES:

CLEARING AND GRADING:

1.

LIMITS OF CLEARING AND GRADING SHALL BE CLEARLY MARKED ON SITE WITH SIGNAGE, FLAGGING AND/OR CONSTRUCTION FENCING.
2.

THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATIONS AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, WETLANDS OR OTHER AREAS OF WATER IMPOUNDMENT.

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.

ALL DETENTION PONDS, RETENTION PONDS, WATER QUALITY STRUCTURES, SEDIMENT PONDS, SEDIMENT TRAPS, EARTHEN DIVERSIONS OR EMBANKMENTS SHALL BE SEEDED AND STRAW MULCHED WITHIN SEVEN (7) DAYS OF COMPLETED CONSTRUCTION.
3.

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.
4.

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.
5.

SEEDED AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED 80% COVER SHALL BE RESEEDED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH STRAW MULCH WHEN SUB-CONDITIONS PROHIBIT SEEDING.

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 ENGINEER PRIOR TO BEGINNING WORK.
2.

IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, 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 INSURE THE SAFETY OF PERSONS AND VEHICLES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS.
3.

THE CONTRACTOR WILL FURNISH AND INSTALL TRAFFIC COMPACTED SURFACE WITH ODOT 304 INCLUDING NECESSARY WATER AND CALCIUM CHLORIDE 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.
4.

THE CONTRACTOR SHALL POST 5 M.P.H. SPEED LIMIT SIGNS IN ALL WORK ZONES AND AS DIRECTED BY THE ENGINEER.
5.

ACCESS MUST BE MAINTAINED FOR RESIDENCES, EMERGENCY VEHICLES AND PEDESTRIANS INCLUDING PERSONS WITH DISABILITIES, AT ALL TIMES.
6.

AT ALL EXCAVATION LOCATIONS THE CONTRACTOR SHALL PROVIDE SUITABLE FLASHERS, BARRICADES, AND TRAFFIC CONTROL DEVICES 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.
7.

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL FURNISH, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGGERS, SIGNING AND OTHER TRAFFIC CONTROLS TO INSURE THE SAFETY OF PERSONS AND VEHICLES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS.
8.

THE VILLAGE SHALL APPROVE ALL ROAD CLOSURES AND DETOURS PRIOR TO IMPLEMENTATION.

STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER MICHAEL KOEHLNIK
E-70984

SANITARY SEWER IMPROVEMENT PROJECT
PARSONS AVENUE
VILLAGE OF LOWELLVILLE, OHIO

GENERAL NOTES

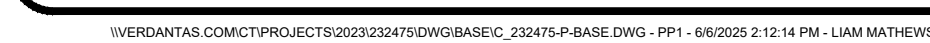
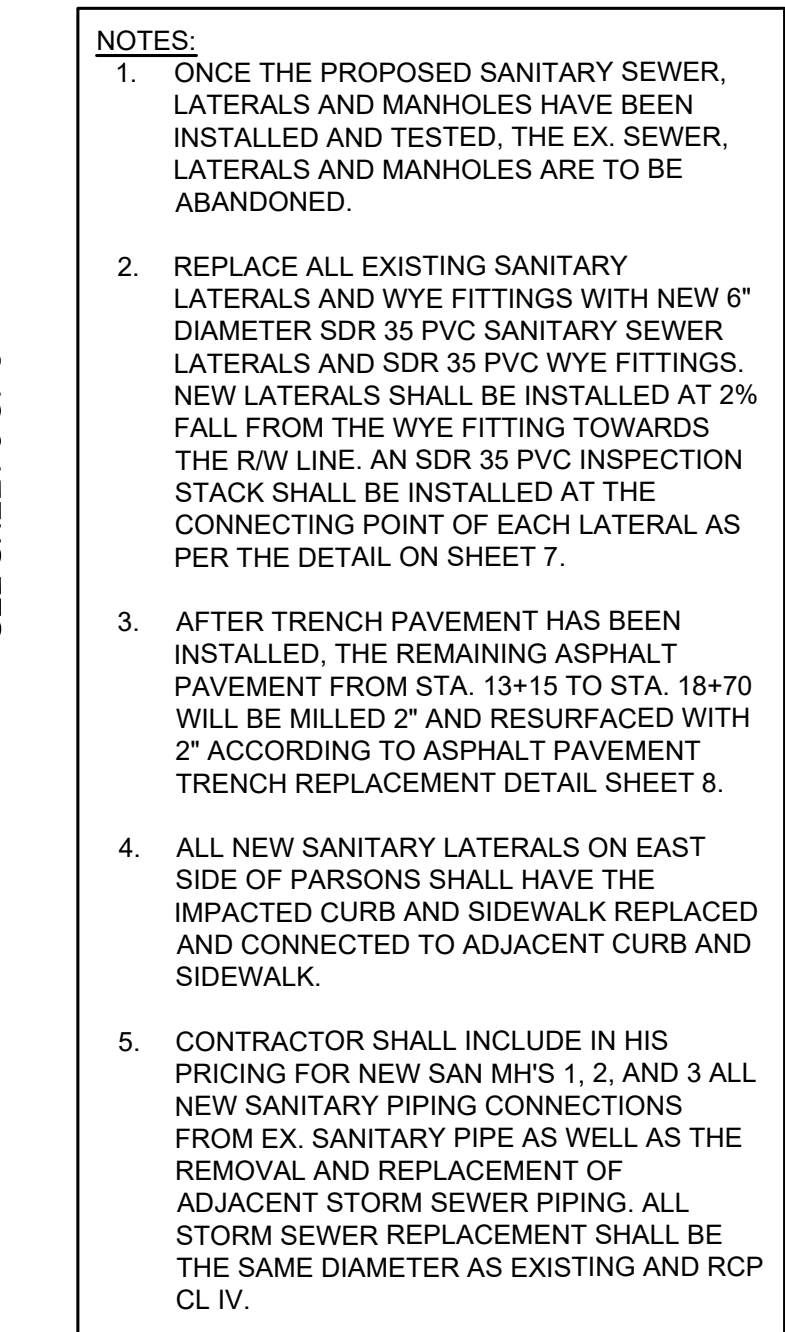
PROJECT NO.
232475

SHEET NAME
GN-2

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<div><div>5</div><div>SHEET</div></div> <div><div>OF</div><div>9</div></div>		PP1		
		SHEET NAME		
		PROJECT NO. 232475		
		SANITARY SEWER IMPROVEMENT PROJECT PARSONS AVENUE VILLAGE OF LOWELLVILLE, OHIO		
		PLAN AND PROFILE STA. 10+25 TO STA. 15+00		
ISSUED FOR: ADDEN. 2		REVISIONS		
ISSUE DATE: JUNE 2025		REV.	DESCRIPTION	DATE
		01	ADDENDUM 2	6-6-25
SCALE: AS SHOWN				
DESIGNED BY: CMK				
DRAWN BY: BEK				
CHECKED BY: CMK				

VERDANTAS

ENGINEERING

REGISTERED PROFESSIONAL

STATE OF OHIO

CHRISTOPHER MICHAEL KOEGLINIK

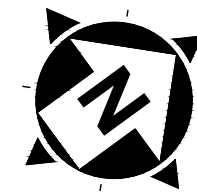
E-70964

908 SAHARA TRAIL, SUITE 2
YOUNGSTOWN, OHIO
330-272-9330

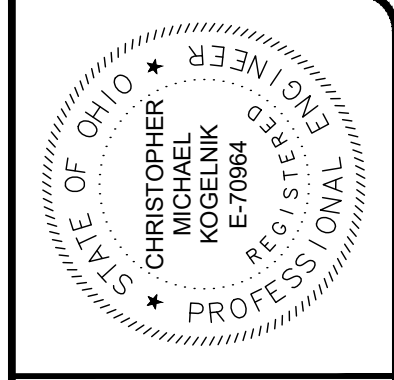
BENCHMARK '203':
SE CORNER OF FIRST CONC. STEP
ABOVE WALK AT 254 W. WOOD ST.
C/L STA. 13+62.08, 51.68°RT.
ELEV. = 843.33

- REMOVE AND REPLACE
EX. CONC. SIDEWALK
- CONCRETE DRIVE REPLACEMENT
- ASPHALT DRIVE REPLACEMENT

NOTES:
1. SEE NOTES PREVIOUS SHEET



HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 5'



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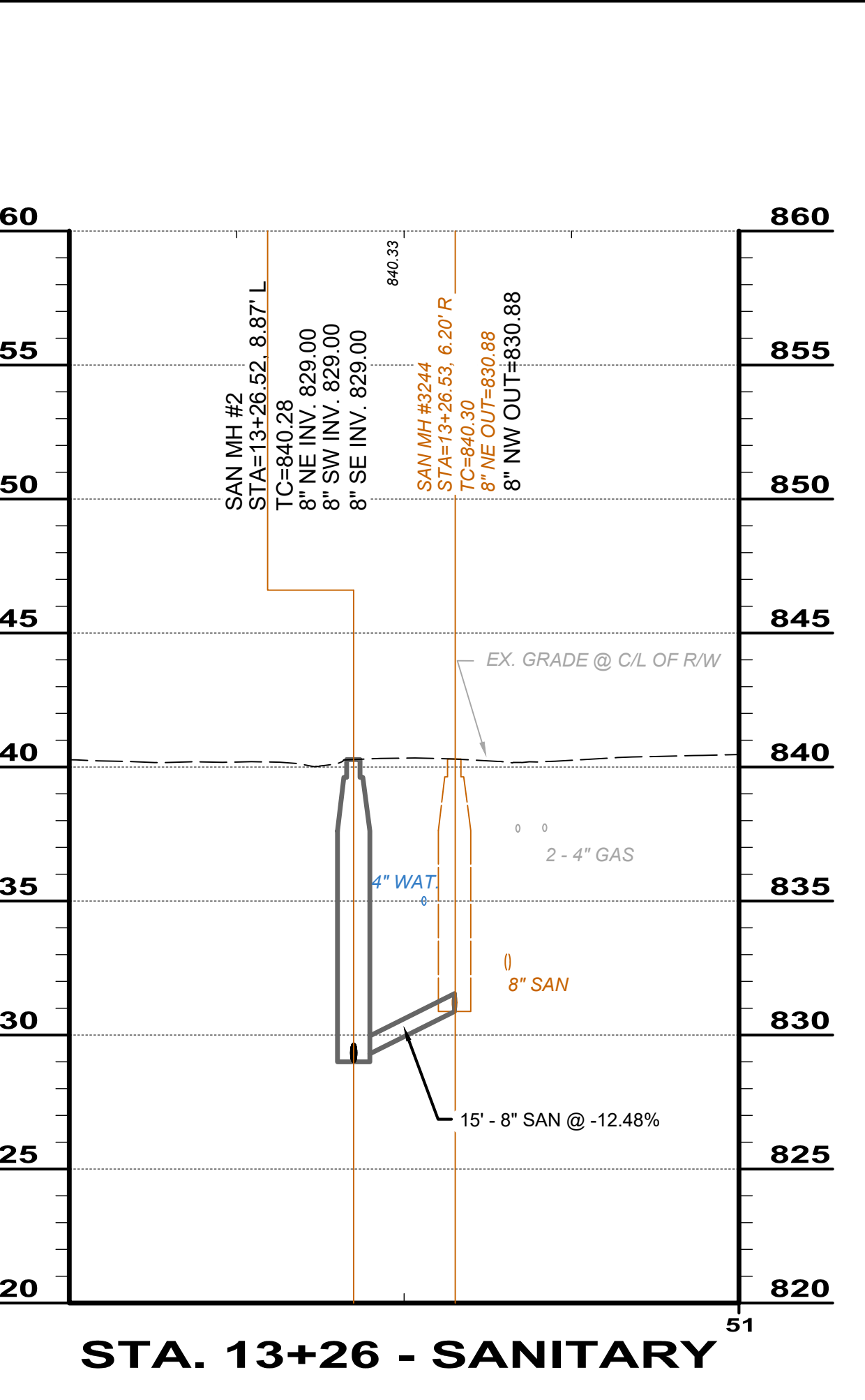
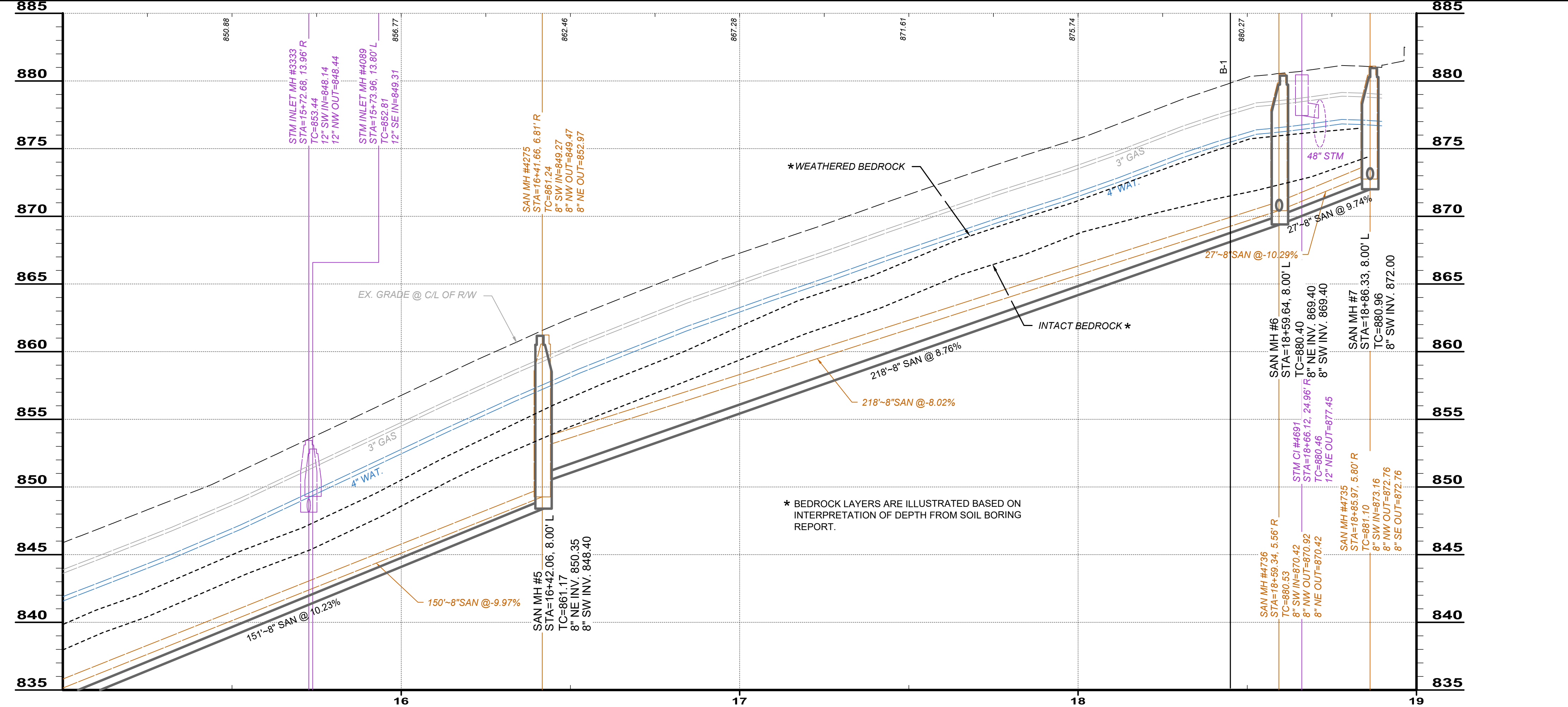
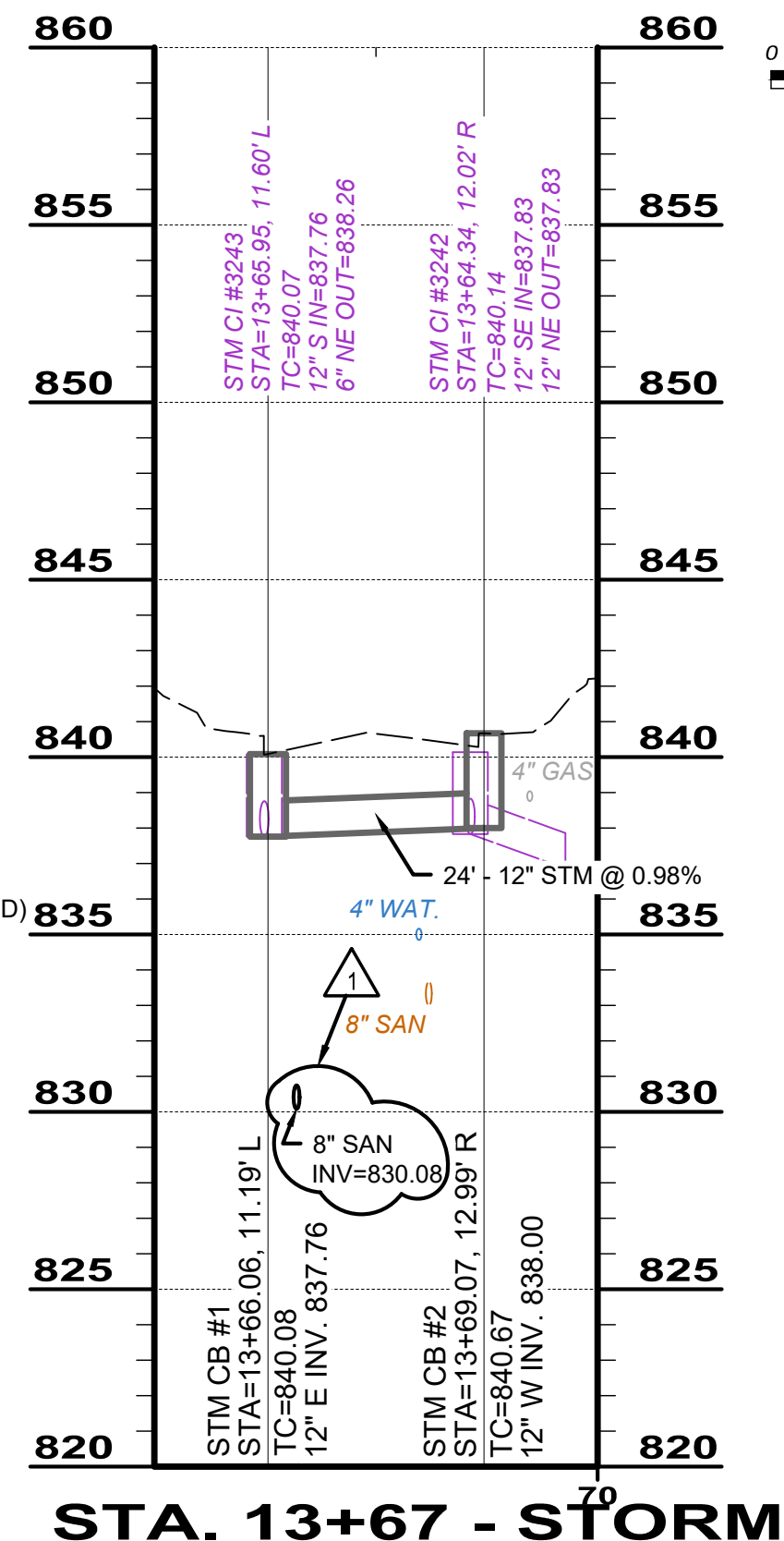
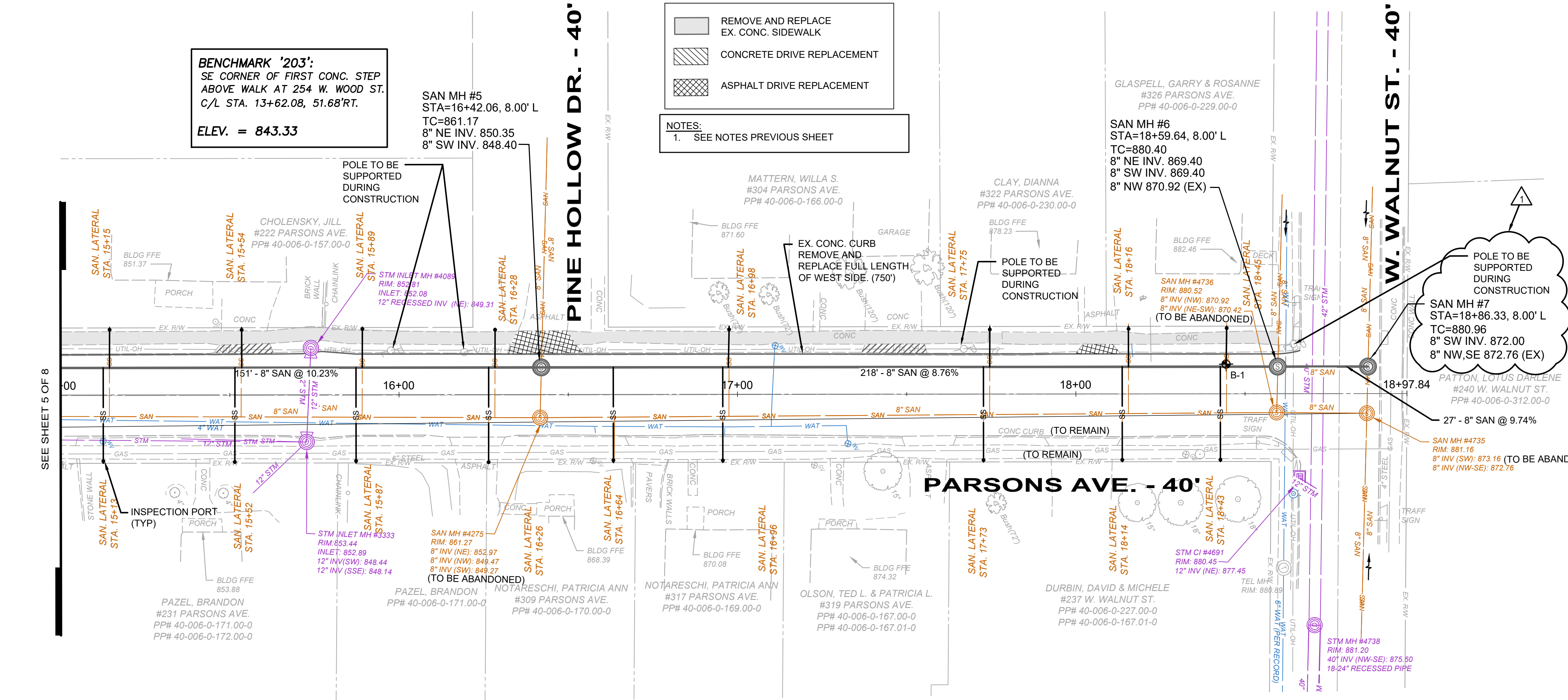
908 SAHARA TRAIL, SUITE 2
YOUNGSTOWN, OHIO 43302-2722

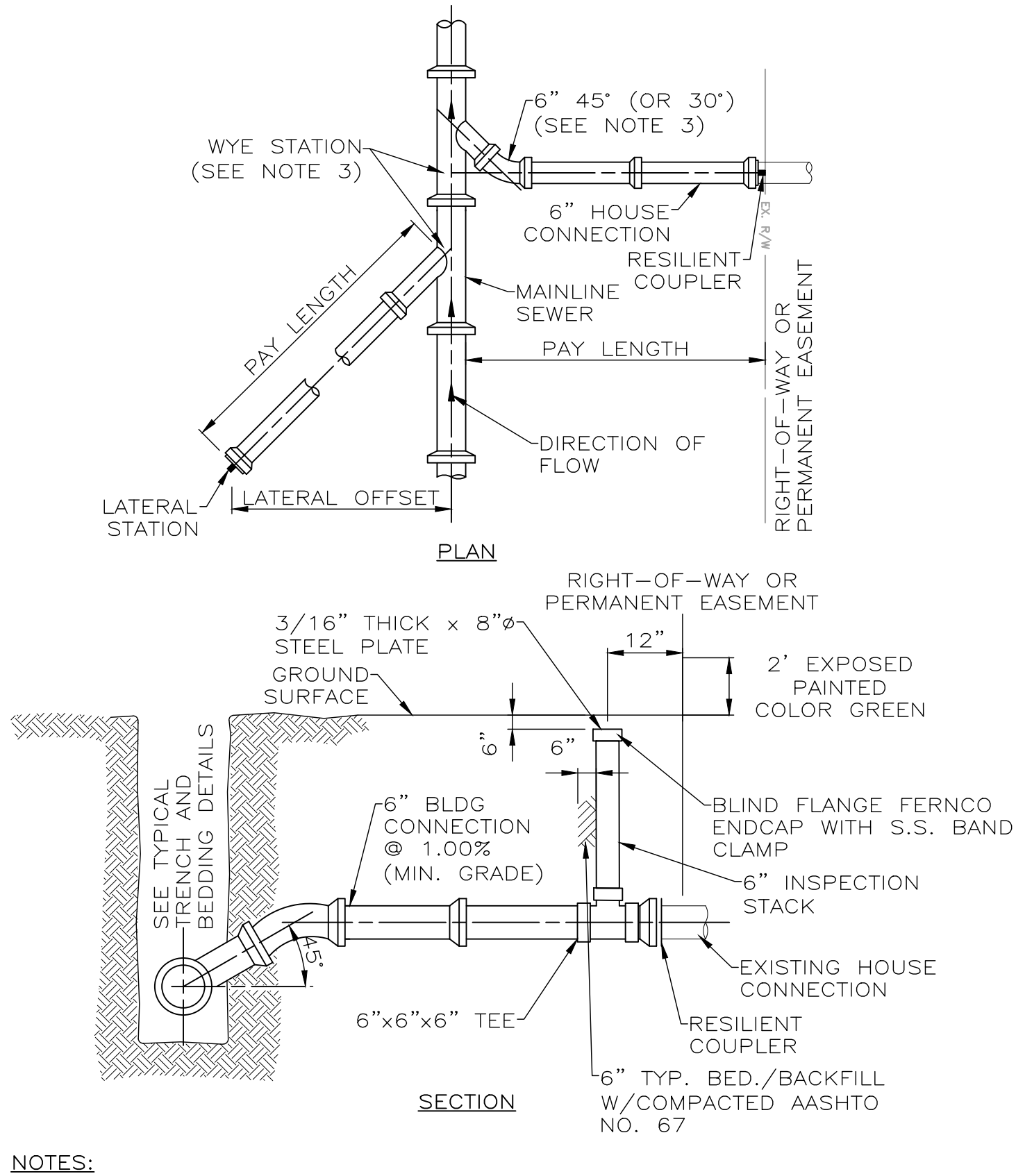
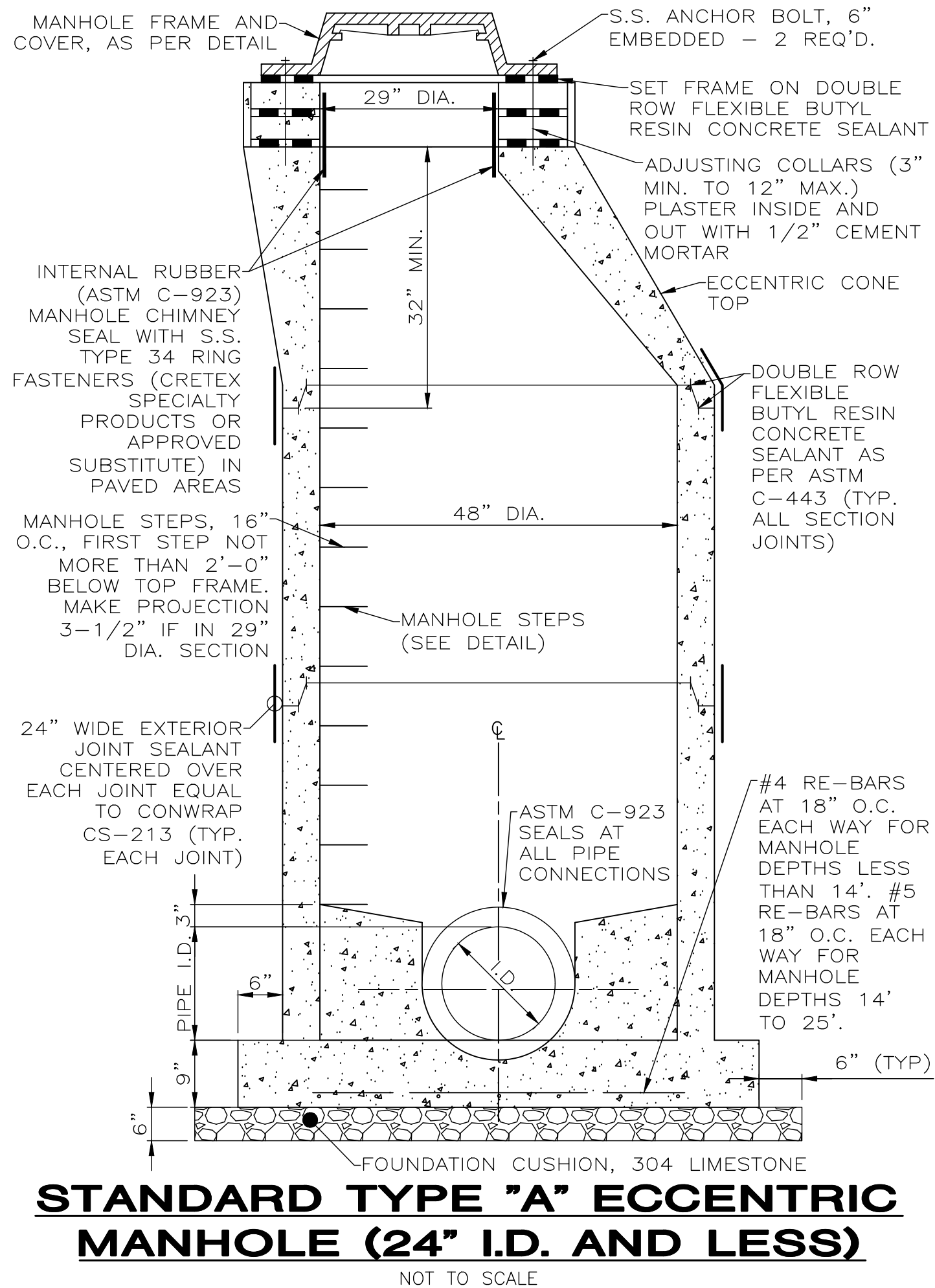
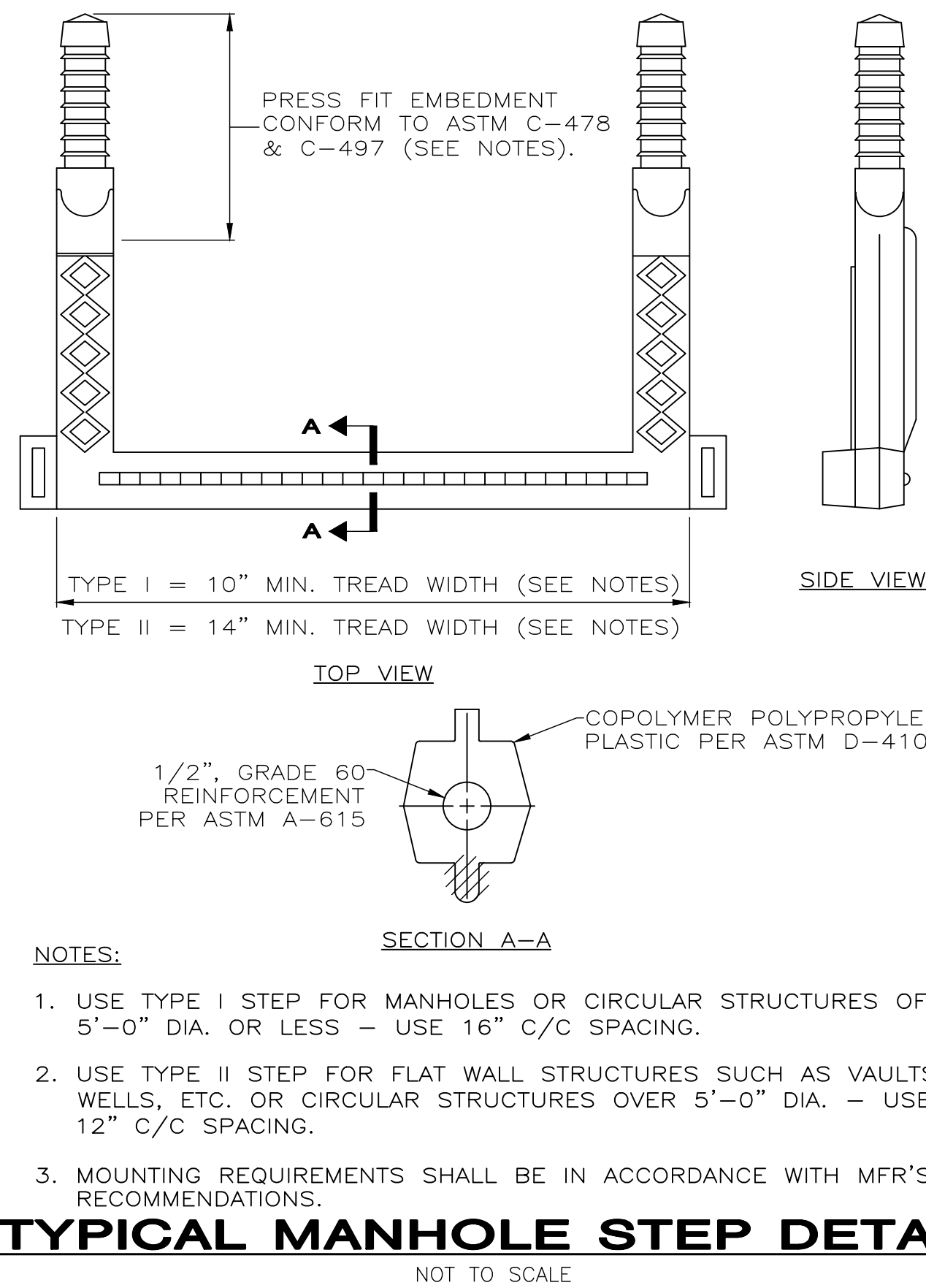
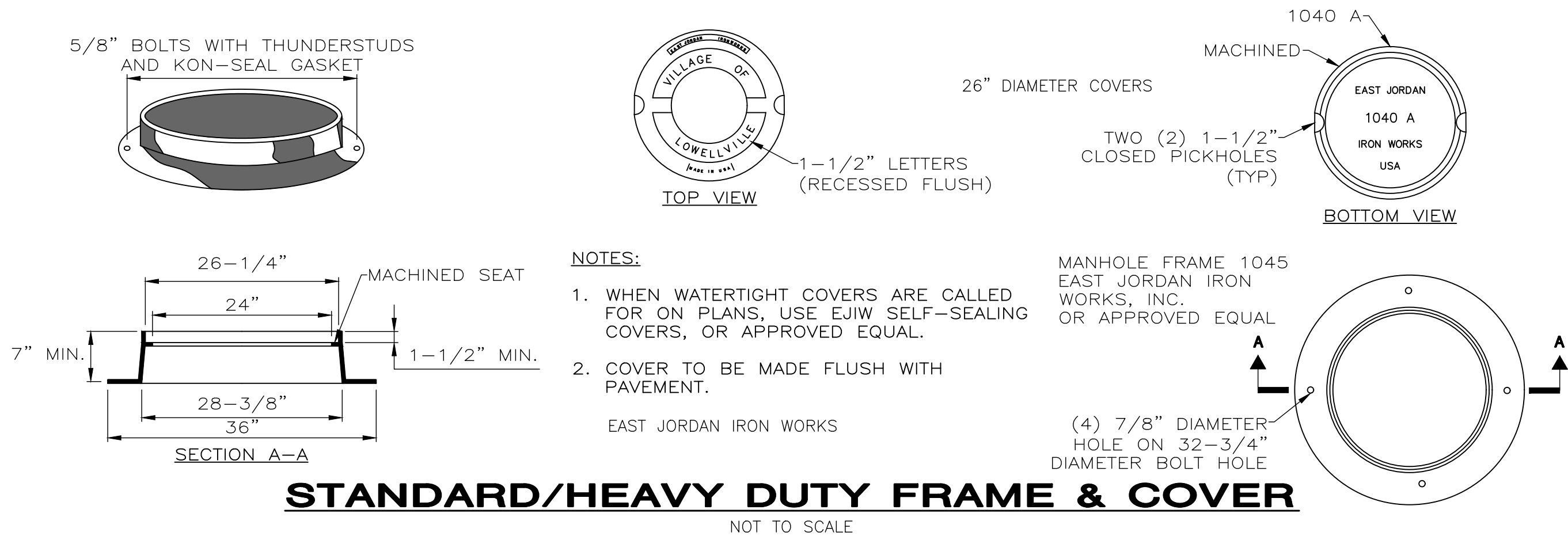
REVISIONS		DATE
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01	ADDENDUM 2	6-6-25

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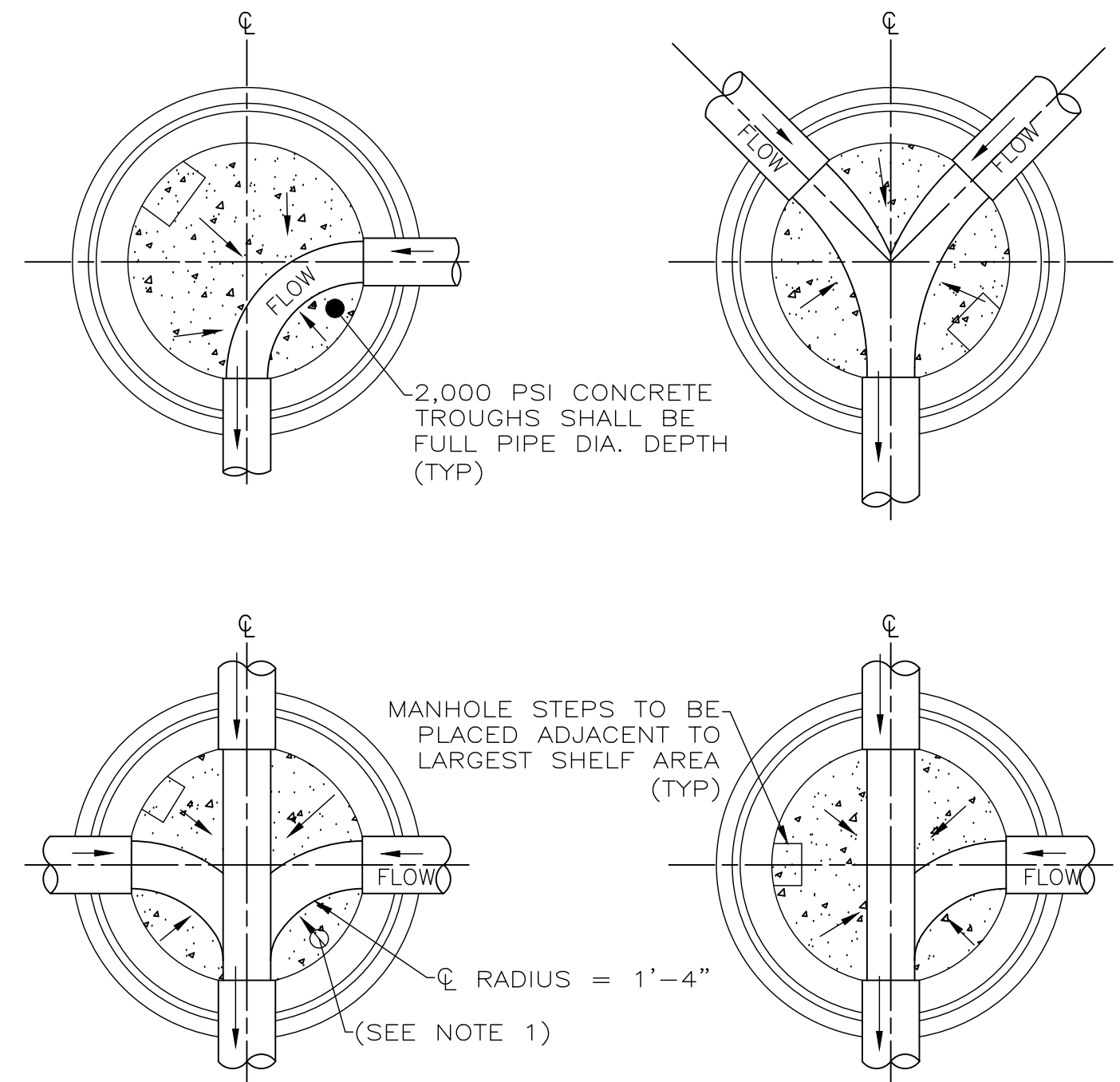
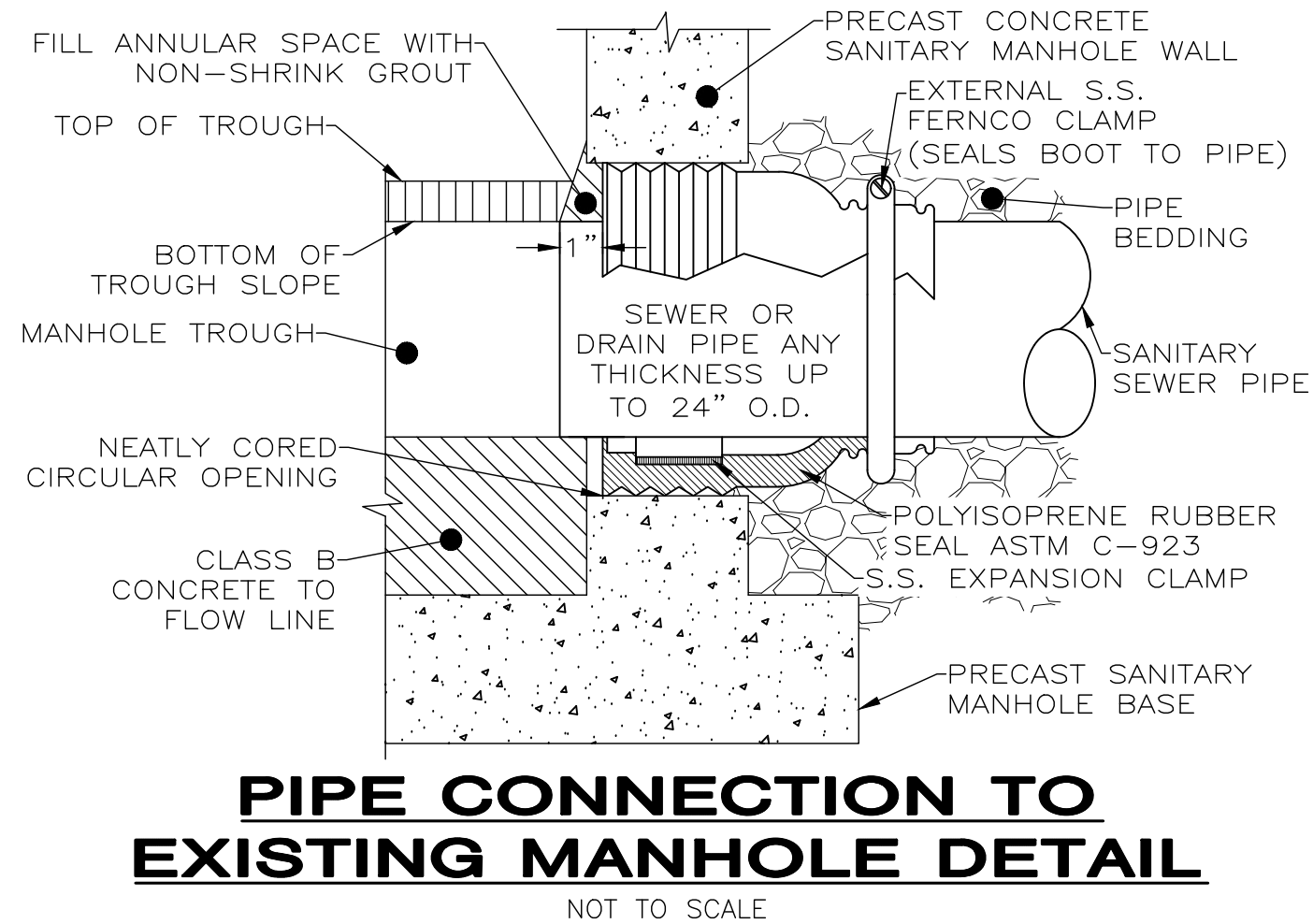
SANITARY SEWER IMPROVEMENT PROJECT
PARSONS AVENUE
VILLAGE OF LOWELLVILLE, OHIO

PROJECT NO.	
232475	
SHEET NAME	
PP2	
SHEET	OF
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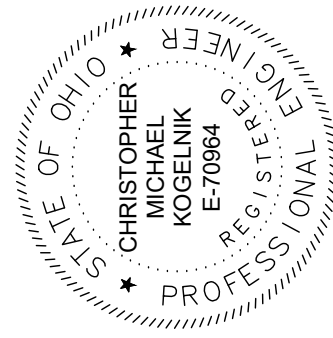




- NOTES:
1. LATERAL TO EXISTING UNSEWERED BUILDINGS OR VACANT LOTS ARE TO BE INSTALLED AT A MINIMUM SLOPE OF 1%.
2. FOR ALL GRAVITY SANITARY CONNECTIONS TO THE MAINLINE SEWERS. USE 45° OR 30° ELL AS REQUIRED TO REDIRECT LATERALS PERPENDICULAR TO MAINLINE SEWER USE ONLY GASKETED PVC WYE FITTINGS.



- NOTES:
1. ALL BENCHES SHALL SLOPE A MINIMUM OF 2" PER FOOT TOWARD THE FLOW CHANNEL.
2. CONTRACTOR HAS THE OPTION OF PROVIDING PRECAST CHANNELS.
3. NEW TROUGHS FOR EXISTING MANHOLES SHALL BE 2'-0" THICK WITH STEEL REINFORCEMENT.



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908 SAHARA TRAIL SUITE 2
YOUNGSTOWN, OHIO
330-272-9330

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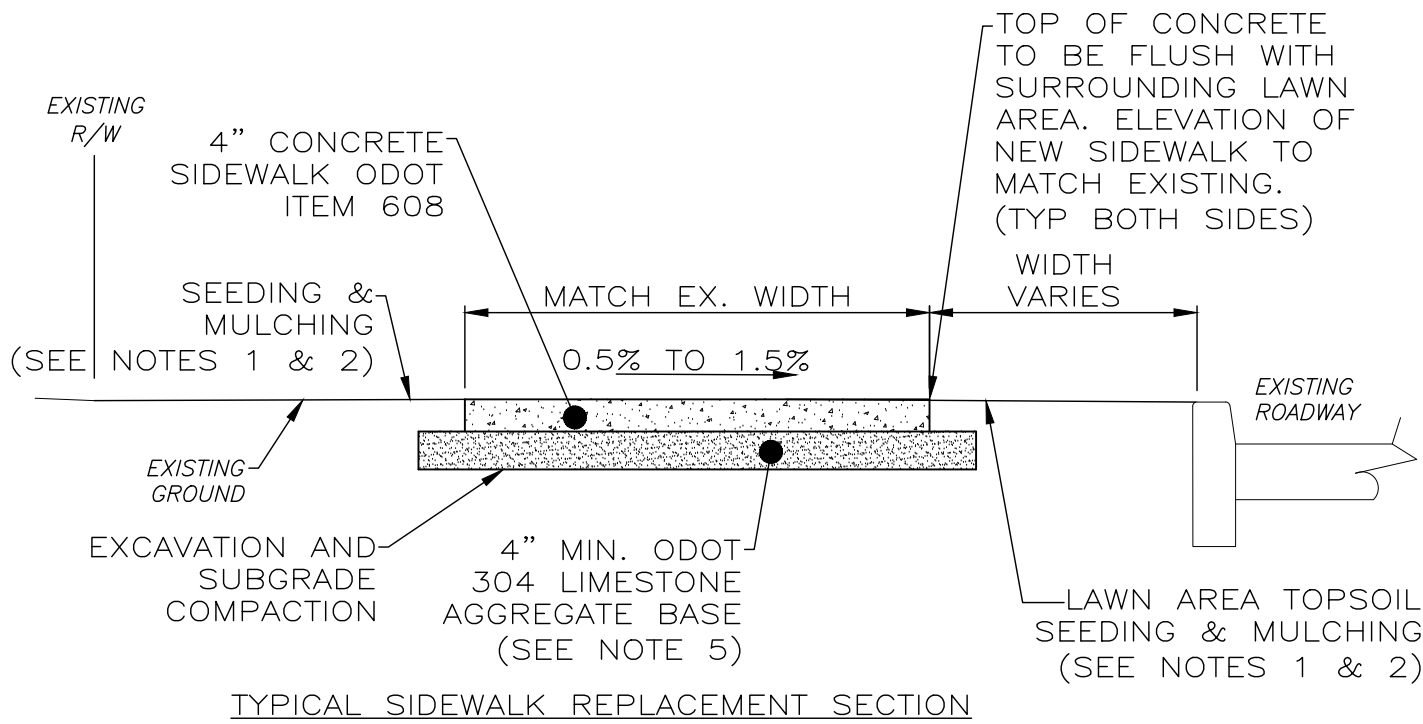
SANITARY SEWER IMPROVEMENT PROJECT
PARSONS AVENUE
VILLAGE OF LOWELLVILLE, OHIO

PROJECT NO.	
232475	
SHEET NAME	
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SHEET	OF
7	9

CONSTRUCTION DETAILS

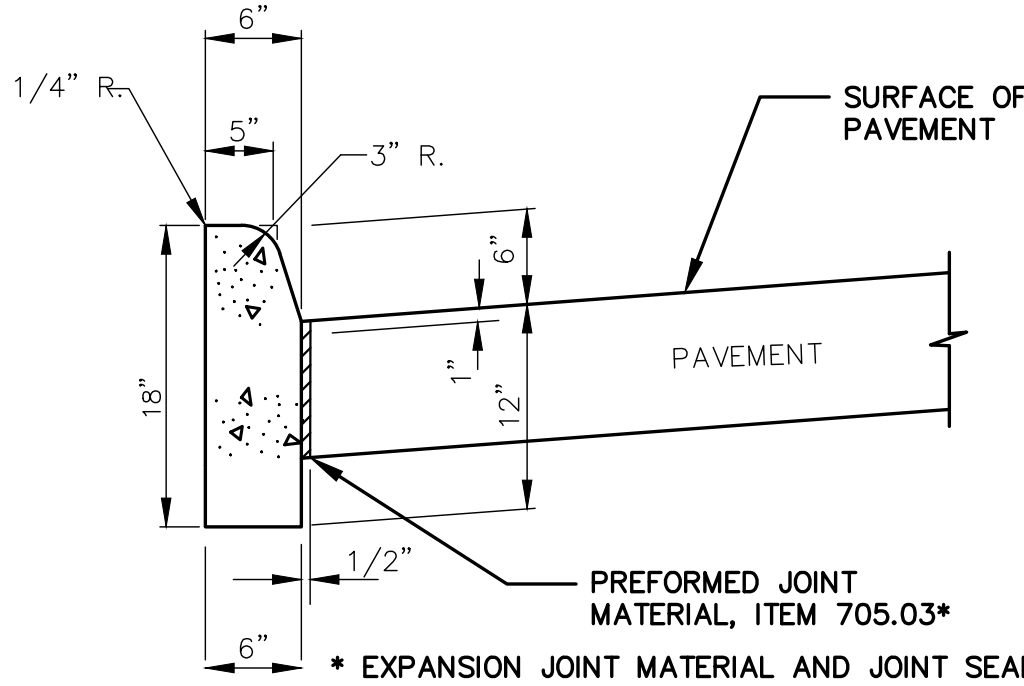
NOTES:

1. ALL EXISTING LAWN AREAS DISTURBED SHALL BE RESTORED TO MATCH THE EXISTING CONDITIONS BY FILLING ANY DISTURBED AREAS WITH SCREENED, IMPORTED TOPSOIL TO BE FLUSH WITH THE EXISTING AND/OR PROPOSED CURB AND SIDEWALK. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS.
2. LAWN AREAS BETWEEN NEW OR EXISTING SIDEWALK BEHIND NEW CURB SHALL BE QUANTIFIED AND INCLUDED WITHIN THE BID ITEM COST FOR THE NEW CURB. ALL OTHER LAWN AREA RESTORATION AND LAWN AREAS BEHIND NEW SIDEWALK SHALL BE INCLUDED IN THE BID ITEM COST FOR SEEDING AND MULCHING.
3. THE CONTRACTOR SHALL INSTALL EXPANSION JOINT FILLER BETWEEN EXISTING SIDEWALK TO REMAIN IN PLACE AND NEW SIDEWALK INSTALLED AS PART OF THE PROJECT (PER ODOT 608.03). EXPANSION JOINT MATERIAL SHALL BE INSTALLED BETWEEN EXISTING RIGID DRIVEWAYS AND NEW SIDEWALK.
4. NEW CONCRETE WALK SHALL TIE-IN AND MATCH THE EXISTING ELEVATION OF EXISTING SIDEWALK, CURB RAMPS, DRIVEWAYS AND DRIVE APRONS, ETC. NEWLY INSTALLED WALK NOT PROPERLY MATCHING ELEVATIONS AS DEEMED BY THE ENGINEER OR OWNER SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. NO ADDITIONAL PAYMENT WILL BE MADE FOR TIME OR MATERIAL.
5. SURFACE OF SUBBASE TO BE UNIFORM AND FREE OF ANY UNDULATIONS OR FOREIGN MATERIAL PRIOR TO INSTALLATION OF 4" CONCRETE SIDEWALK.
6. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING WITHIN RIGHT-OF-WAY OR PRIVATE PROPERTY.



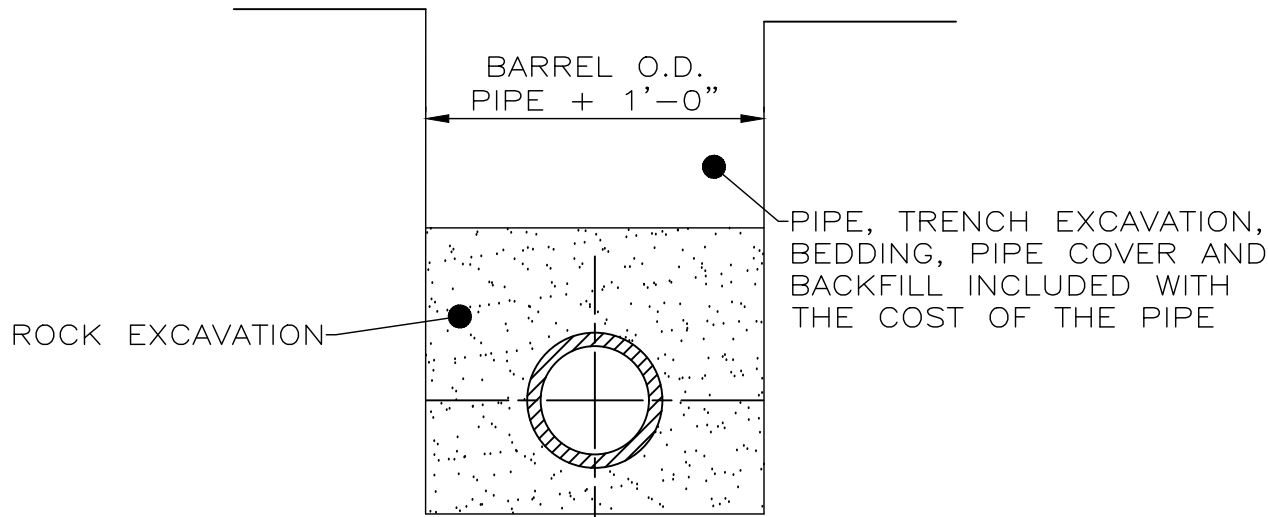
SIDEWALK REPLACEMENT DETAIL

NOT TO SCALE



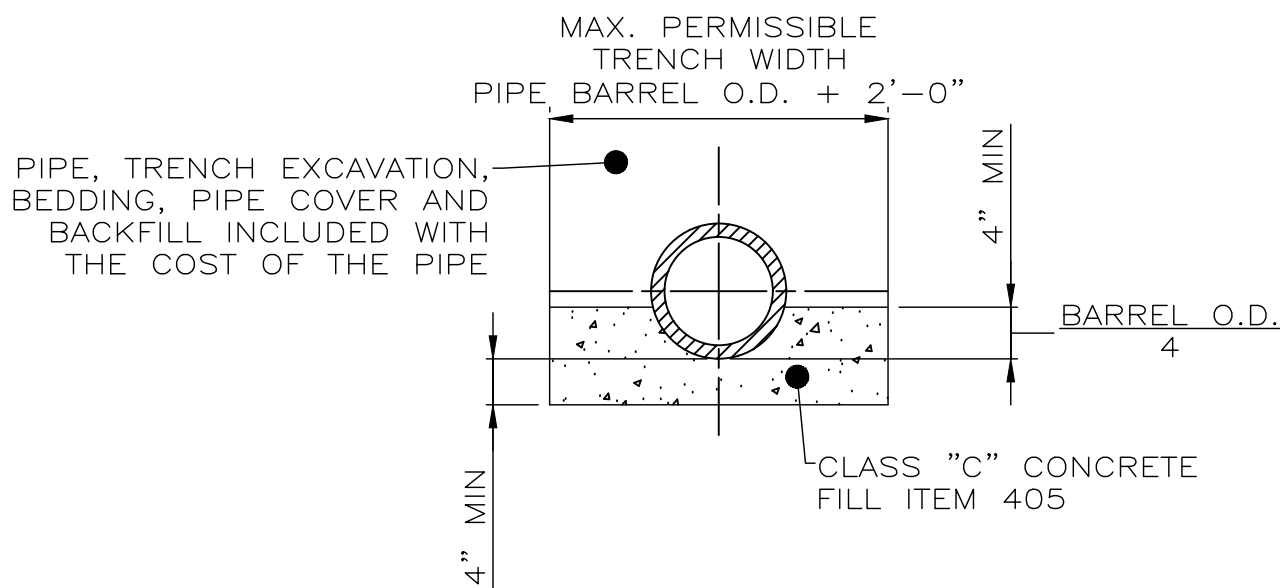
ODOT TYPE 6 CURB

* EXPANSION JOINT MATERIAL AND JOINT SEALER ARE NOTE REQUIRED FOR THE PORTION OF THE CURB THAT IS ADJACENT TO A FLEXIBLE PAVEMENT TYPE. BOTH MATERIALS ARE REQUIRED, AS DETAILED, FOR THE FULL HEIGHT OF RIGID PAVEMENT AND CONCRETE BASES.



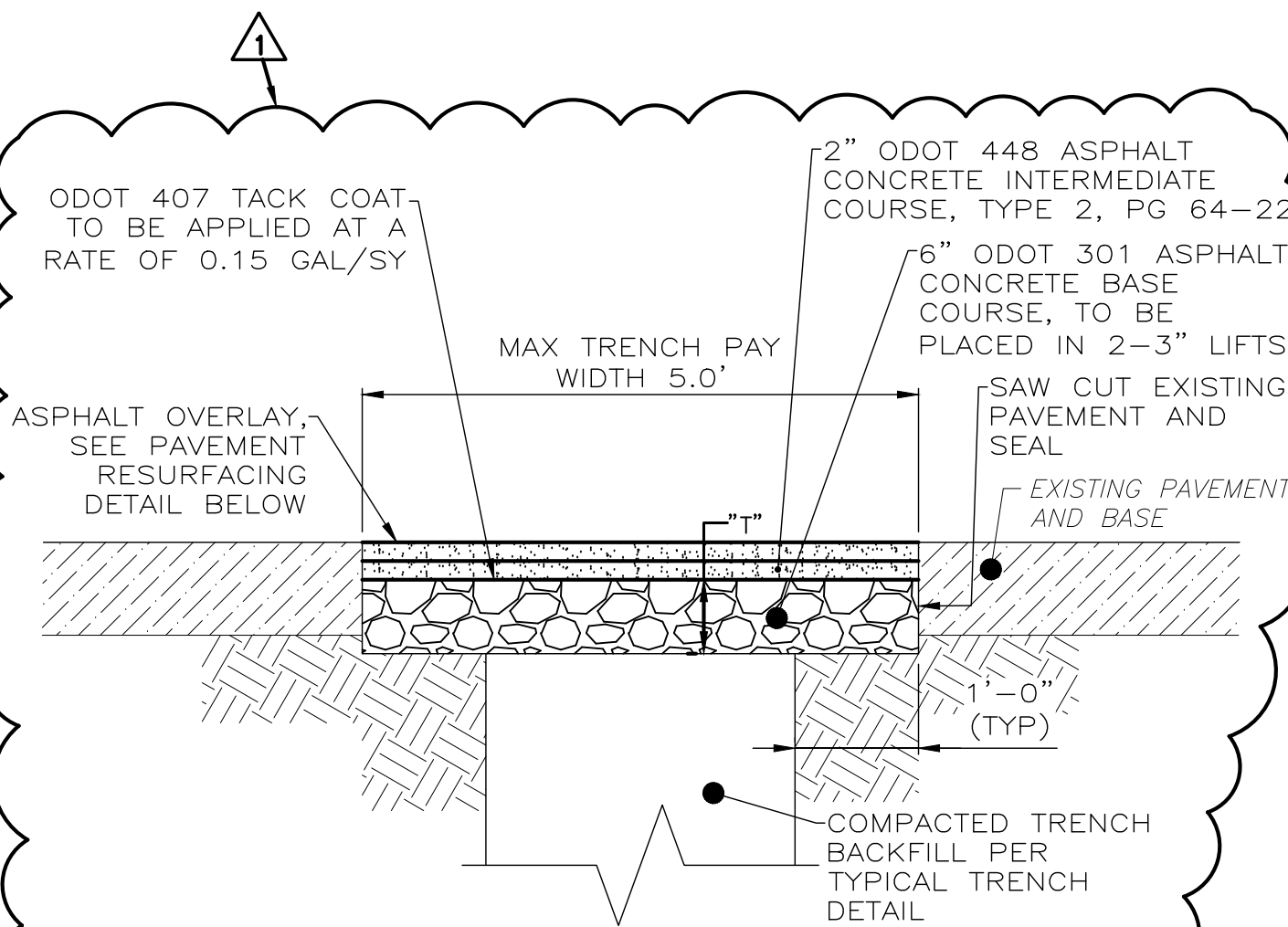
ROCK EXCAVATION

NOT TO SCALE



TYPE "A" BEDDING

NOT TO SCALE



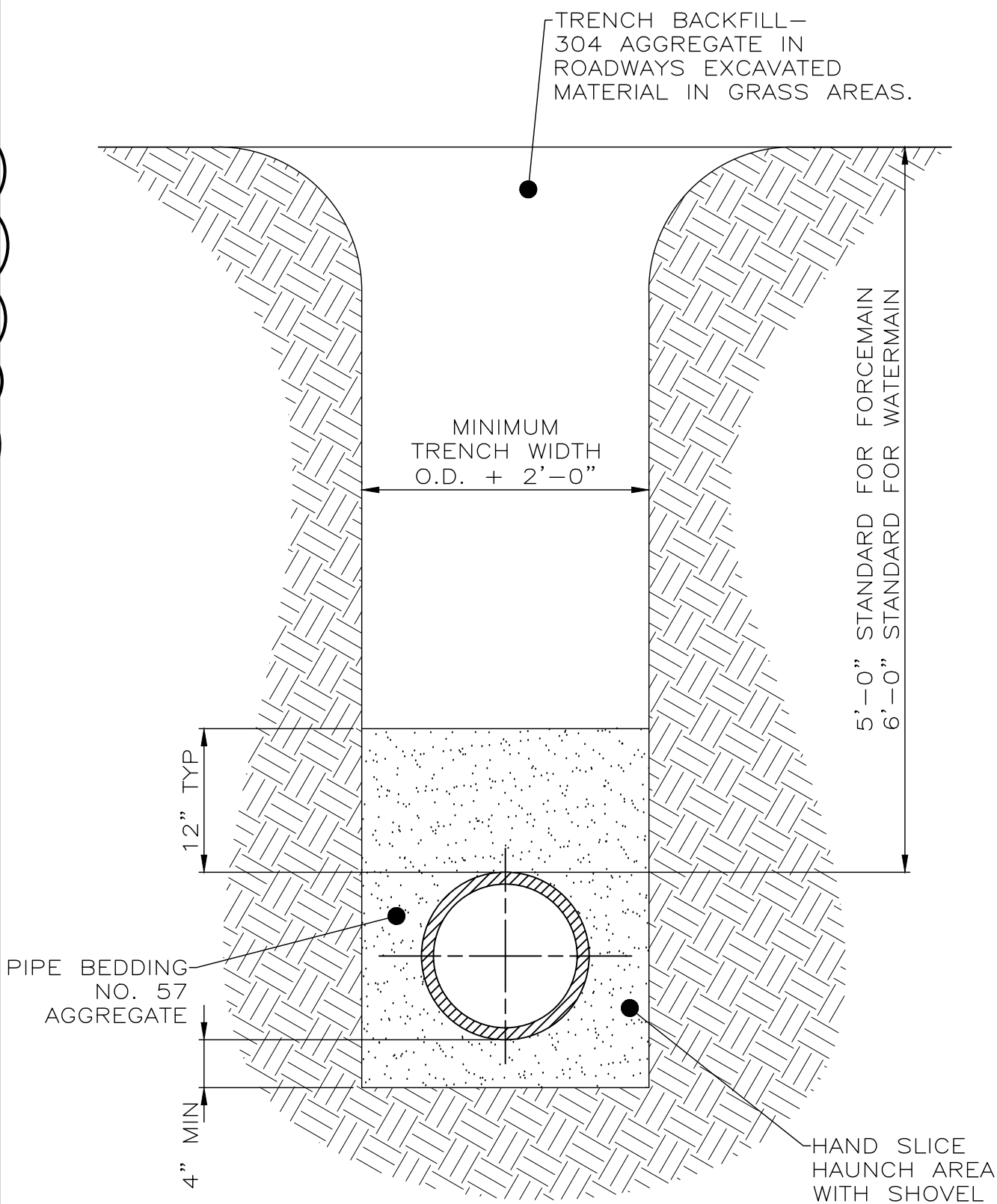
ASPHALT PAVEMENT TRENCH REPLACEMENT DETAIL

NOT TO SCALE

"T" = 6" MIN.

NOTES:

IN NO CASE SHALL THE THICKNESS OF THE OVERLAY AND/OR "T" BE LESS THAN EXISTING.

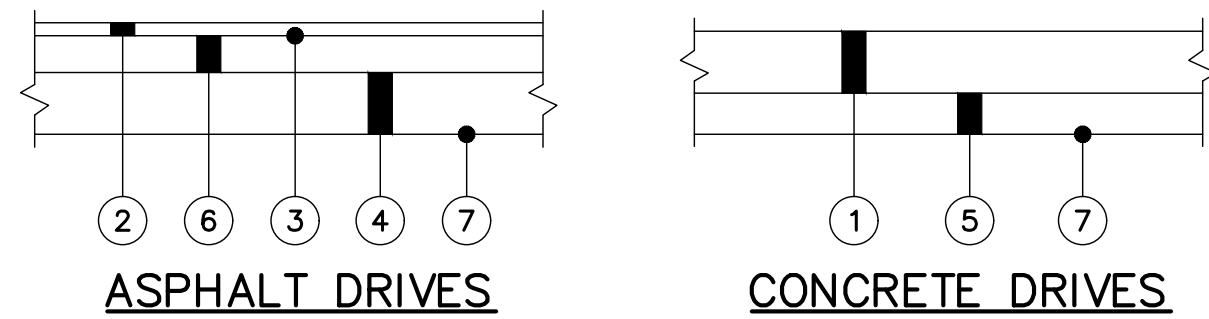


NOTE:

1. CONTRACTOR BID TO ACCOUNT FOR ADDITIONAL EXCAVATION AND BACKFILL REQUIRED FOR SHEETING, TRENCH BORES OR SHORING, CONTRACTOR TO KEEP TRENCHES AS NARROW AS POSSIBLE.
2. MAXIMUM TRENCH WIDTH SHALL BE THE PIPE O.D. + 7'

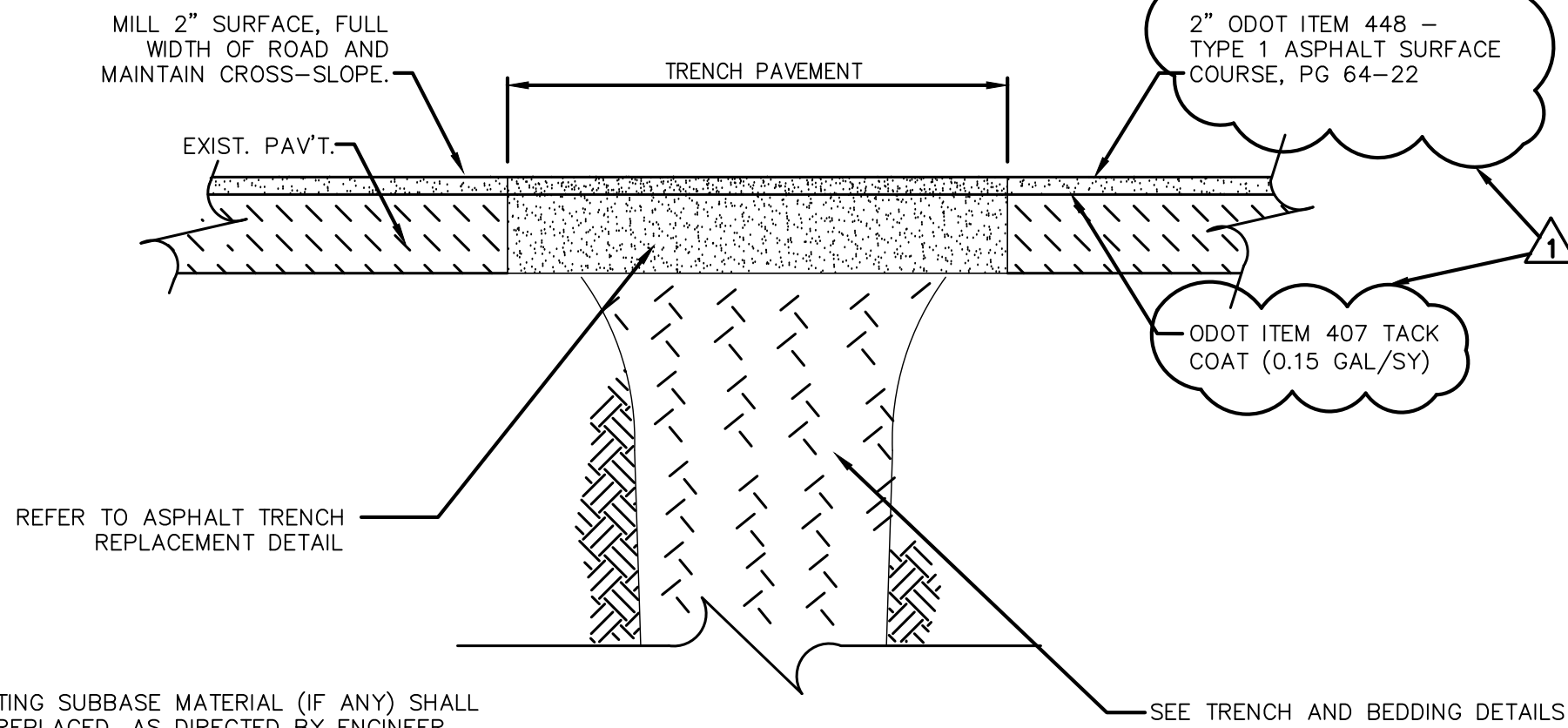
TYPICAL TRENCH DETAIL

NOT TO SCALE



- 1 ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT (4" FOR RESIDENTIAL, 6" FOR COMMERCIAL)
- 2 ITEM 441 - 1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-28
- 3 ITEM 407 - TACK COAT (0.075 GAL/SY)
- 4 ITEM 304 - 6" AGGREGATE BASE (COMMERCIAL)
- 5 ITEM 304 - 4" AGGREGATE BASE (RESIDENTIAL)
- 6 ITEM 301 - 4" ASPHALT CONCRETE BASE, PG 64-22
- 7 ITEM 204 - SUBGRADE COMPACTION

DRIVEWAY REPLACEMENT DETAIL



NOTE:

- 1) EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.

PAVEMENT RESURFACING



verdantas

908 SAHARA TRAIL, SUITE 2
YOUNGSTOWN, OHIO
330-272-9330

REVISIONS		DATE
REV.	DESCRIPTION	6-6-25
01	ADDENDUM 2	
ISSUED FOR:	ADDEN. 2	
ISSUE DATE:	JUNE 2025	
SCALE:	AS SHOWN	
DESIGNED BY:	CMK	
DRAWN BY:	BEK	
CHECKED BY:	CMK	

SANITARY SEWER IMPROVEMENT PROJECT
PARSONS AVENUE
VILLAGE OF LOWELLVILLE, OHIO

CONSTRUCTION DETAILS

PROJECT NO.	
232475	
SHEET NAME	
D-2	
SHEET	OF
8	9

SEEDING DATES	SPECIES	POUNDS/ 1,000 SF	POUNDS/ ACRE
MAR. 1 TO AUG. 15	OATS	3	128 (4 BU)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	55
	PERENNIAL RYEGRASS	3.25	142
	CREeping RED FESCUE	0.4	17
	KENTUCKY BLUEGRASS	0.4	17
AUG. 16TH TO NOV.	OATS	3	128 (3 BU)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	WHEAT	3	120 (2 BU)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYE	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1.25	40
NOVEMBER 1 TO FEB. 29	PERENNIAL RYEGRASS	3.25	40
	CREeping RED FESCUE	0.4	40
	KENTUCKY BLUEGRASS	0.4	40

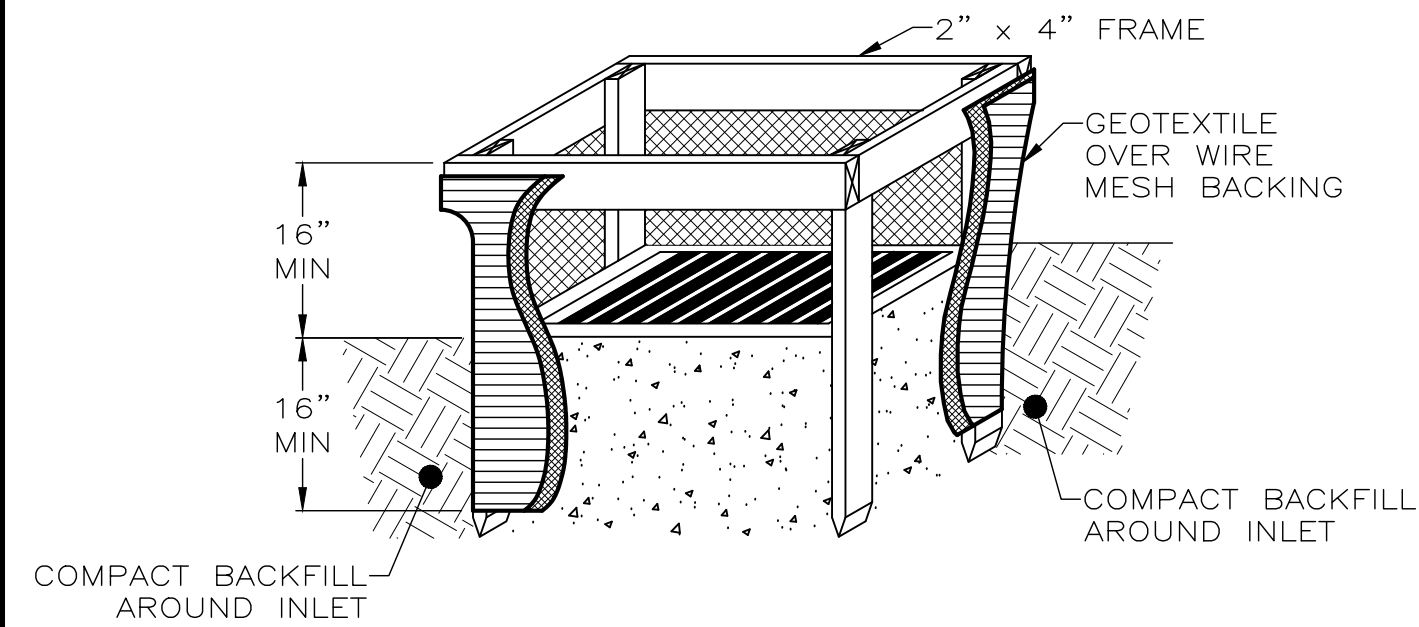
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

TEMPORARY SEEDING

POUNDS/ ACRE	POUNDS/ 1,000 SF	NOTES
GENERAL USE:		
CREeping RED FESCUE	20-40	1/2-1
DOMESTIC RYEGRASS	10-20	1/4-1/2
KENTUCKY BLUEGRASS	20-40	1/2-1
TALL FESCUE	40-50	1-1 1/4
TURF-TYPE (DWARF) FESCUE	90	2 1/4
STEEP BANKS OR CUT SLOPES:		
TALL FESCUE	40-50	1-1 1/4
CROWN VETCH	10-20	1/4-1/2
TALL FESCUE	20-30	1/2-3/4
FLAT PEA	20-25	1/2-3/4
TALL FESCUE	20-30	1/2-3/4
ROAD DITCHES AND SWALES:		
TALL FESCUE	40-50	1-1 1/4
TURF-TYPE:		
(DWARF) FESCUE	90	2 1/4
KENTUCKY BLUEGRASS	5	0.1
LAWNS:		
KENTUCKY BLUEGRASS	100-120	2
PERENNIAL RYEGRASS		2
KENTUCKY BLUEGRASS	100-120	2
CREeping RED FESCUE		1-1/2
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.		

NOTE: STRAW MULCHING SHALL BE APPLIED AT A RATE OF 90 POUNDS PER 1,000 SF OF DISTURBED AREA OR TWO (2) TONS/ACRE. ALL HYDROSEEDING MUST BE WOOD CELLULOSE FIBER AND APPLIED AT 2,000 LBS/AC OR 46 POUNDS PER 1,000 SF.

SEEDING CHARTS

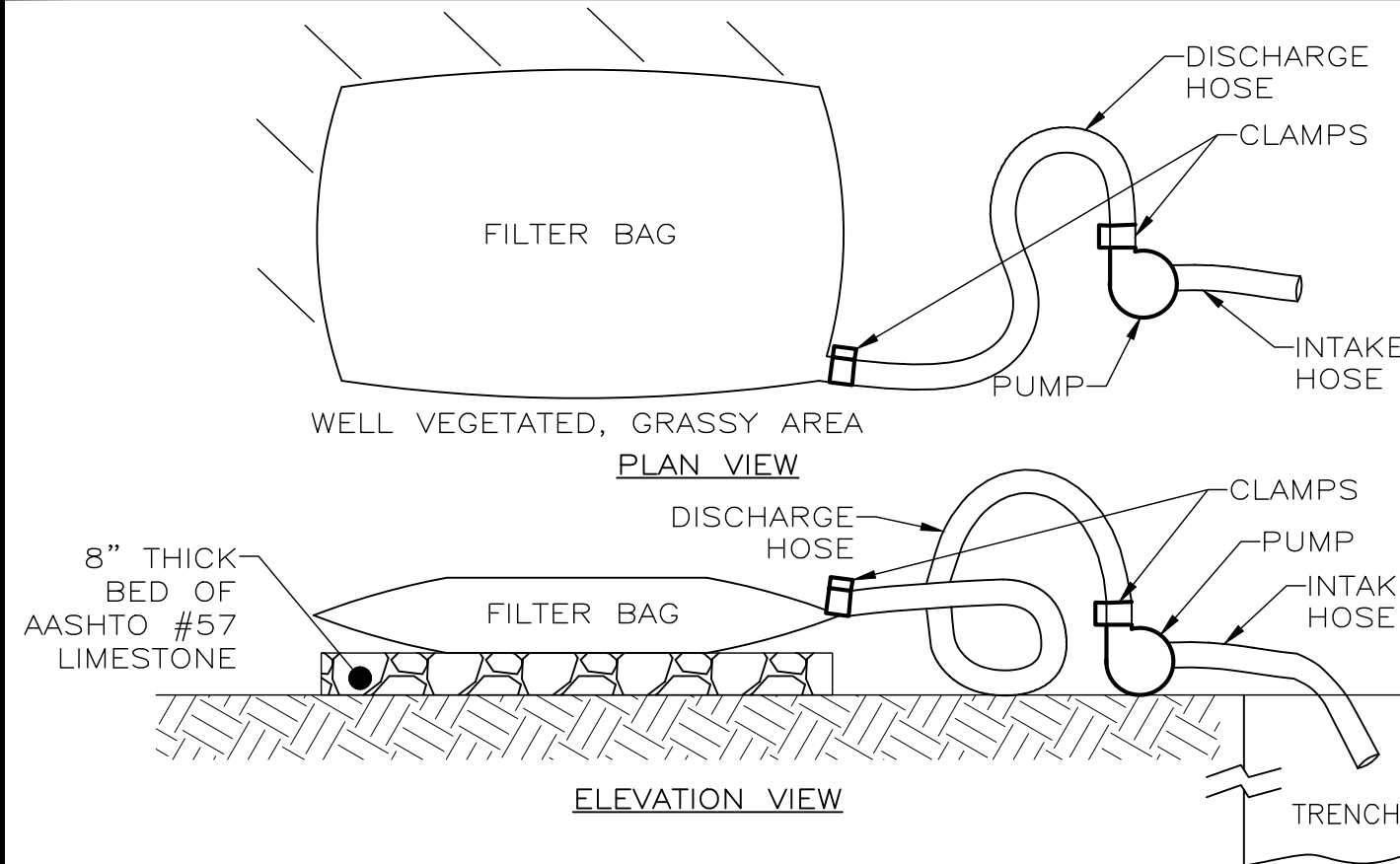


NOTES FOR INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS:

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 16 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-INCH CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-INCH POSTS SHALL BE DRIVEN 18 INCHES INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-BY-4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION DETAIL

NOT TO SCALE



PUMPED WATER FILTER BAG DETAIL

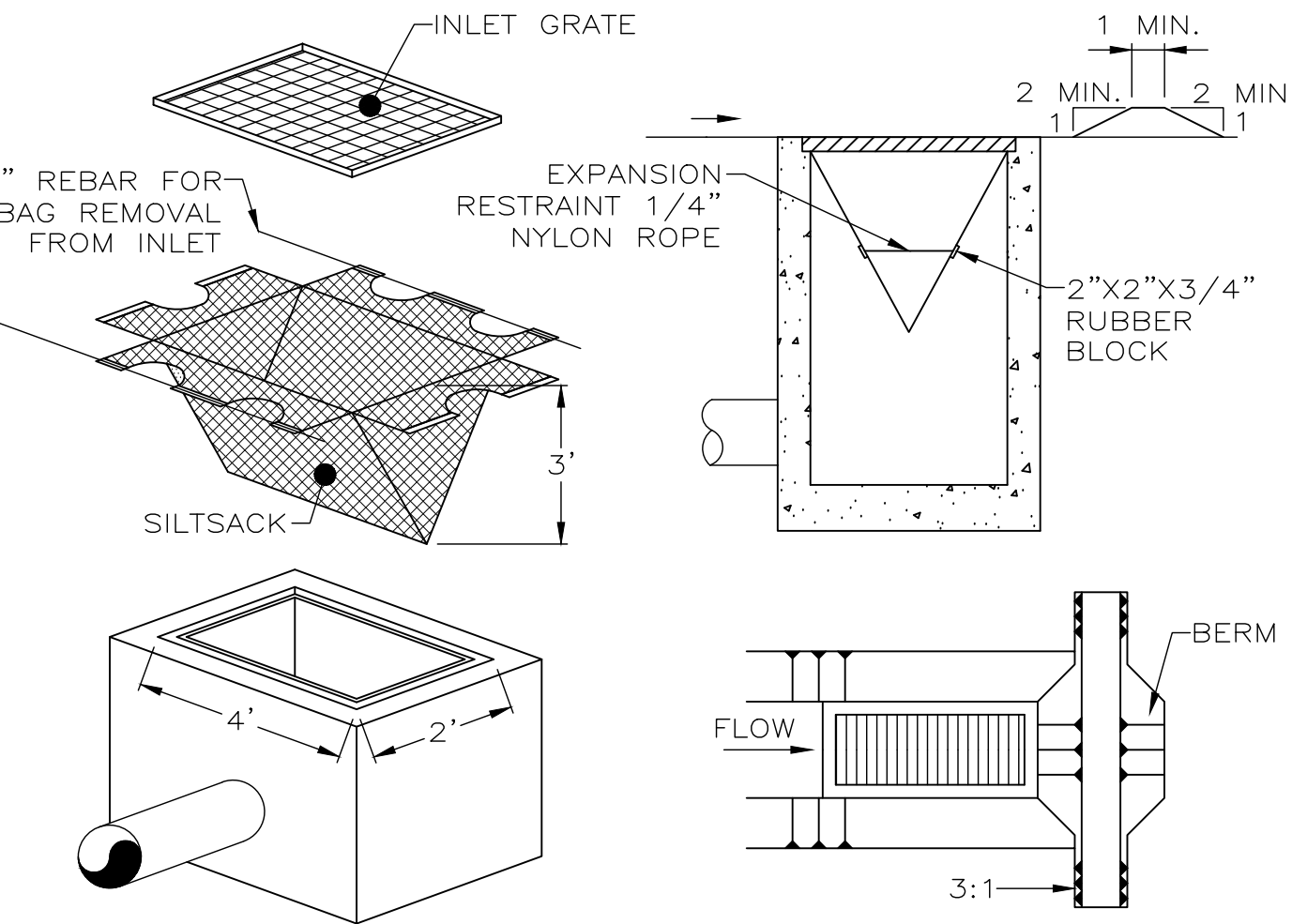
NOT TO SCALE

NOTES:

1. USE FILTER BAGS MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS, CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. REPLACE FILTER BAGS WHEN THEY BECOME 1/2 FULL. KEEP SPARE BAGS AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
3. PLACE BAGS IN WELL-VEGETATED (GRASSY) AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, PROVIDE A GEOTEXTILE FLOW PATH. DO NOT PLACE BAGS ON SLOPES GREATER THAN 5%.
4. INSERT PUMP DISCHARGE HOSE INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
5. THE PUMPING RATE SHOULD BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
6. INSPECT FILTER BAGS DAILY. IF ANY PROBLEM IS DETECTED, CEASE PUMPING IMMEDIATELY AND DO NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

SILTSACK DETAIL

NOT TO SCALE



NOTES:

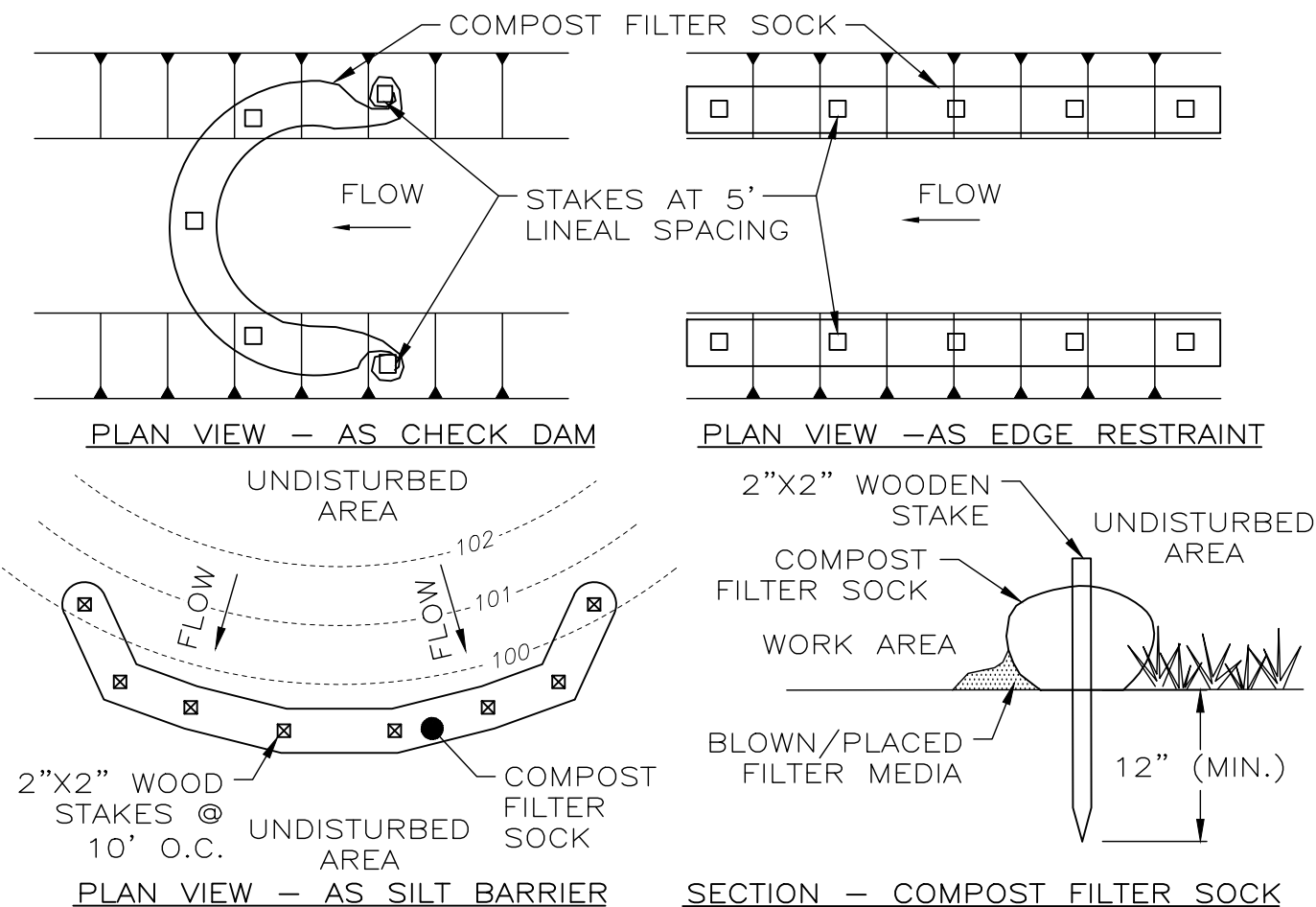
1. MAXIMUM DRAINAGE AREA =1/2 ACRE.
2. INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP.
3. BERMS REQUIRED FOR ALL INSTALLATIONS.
4. EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

FABRIC-SILT FENCE NOTES:

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
5. SILT FENCE HEIGHT SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
7. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 INCHES OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH-DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
8. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
9. SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY 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, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
 - A. THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED,
 - B. ACCUMULATED SEDIMENT SHALL BE REMOVED, OR
 - C. OTHER PRACTICES SHALL BE INSTALLED.
10. SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.
11. CRITERIA FOR SILT FENCE MATERIALS:
 - A. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES LONG. WOOD POSTS WILL BE 2 X 2 INCH HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS THAT WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FEET. POSTS SHALL BE DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
 - B. SILT FENCE FABRIC - SEE CHART TO THE RIGHT:

FABRIC SILT FENCE DETAIL

NOT TO SCALE

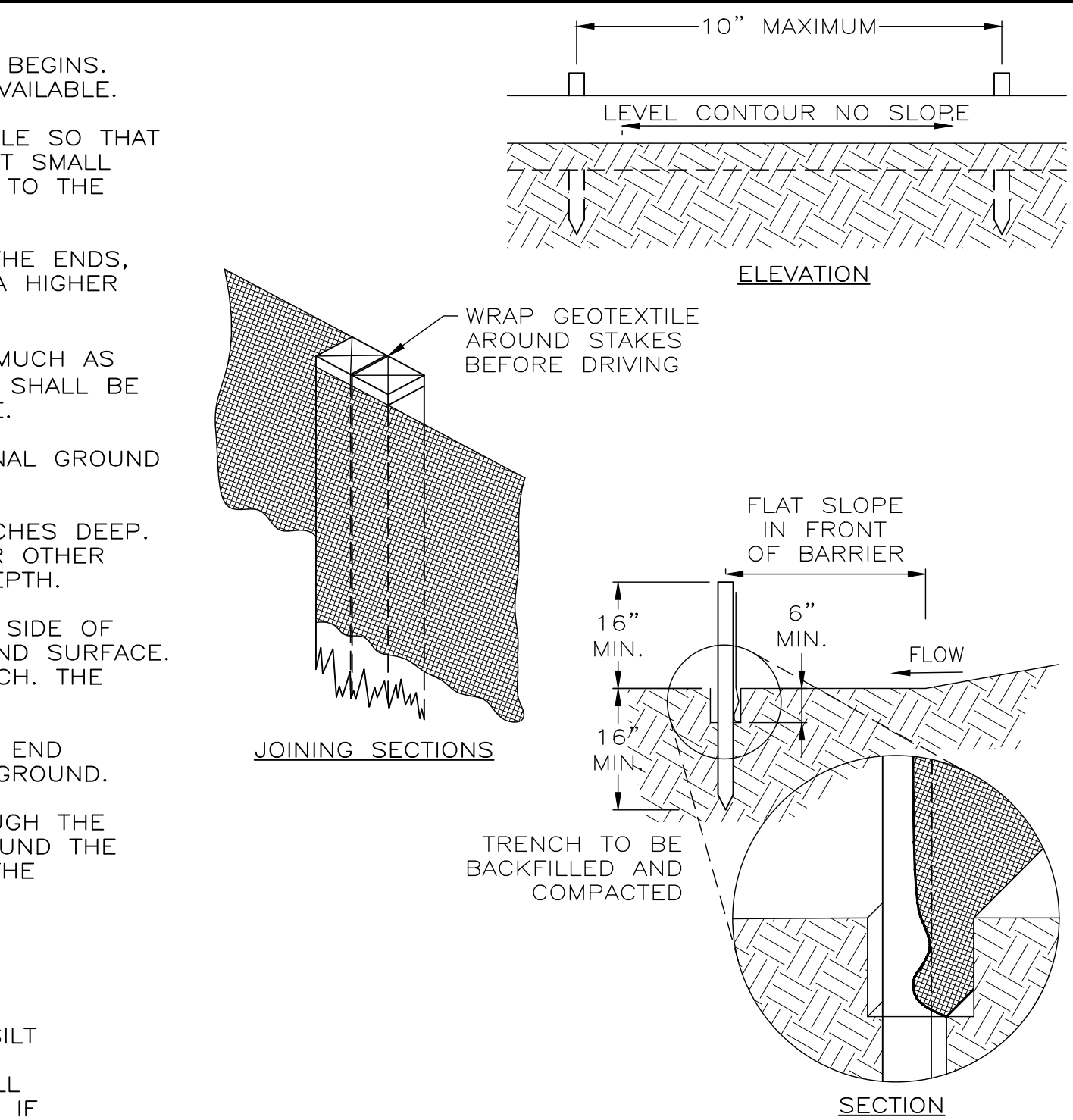


NOTES:

1. THIS PROJECT REQUIRES THE USE OF 8" DIA. COMPOST FILTER SOCK. SOCK FABRIC, COMPOST, USAGE, AND MAINTENANCE SHALL MEET AND FOLLOW THE STANDARDS OF THE LATEST VERSION OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCK.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT, MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
3. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
4. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
5. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK

NOT TO SCALE



MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2003)		
FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS	ASTM D 4833
MINIMUM TEAR STRENGTH	40 PSI	ASTM D 4533
APPARENT OPENING SIZE	≤ 0.84 mm	ASTM D 4751
MINIMUM PERMITTIVITY	1x10-2 sec-1	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

NOTES:

1. THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.
2. THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FEET (EXCEPTION: APPLY 30 FEET MINIMUM TO SINGLE RESIDENCE LOTS).
3. ODOT #2 STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT. THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. A GEOTEXTILE SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 PSI
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6 MM
PERMITTIVITY	1x10-3 CM/SEC
5. A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
6. A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCES AND OUT ONTO PAVED SURFACES.
7. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY E&SC'S, SHALL BE REMOVED IMMEDIATELY BY SCRAPING OR SWEEPING.
8. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

CONSTRUCTION ENTRANCE

NOT TO SCALE

ENGINEER
REGISTERED PROFESSIONAL
E-70984
MICHAEL KOGELNIK
CHRISTOPHER
SAHARA TRAIL, SUITE 2
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verdantas

908 SAHARA TRAIL, SUITE 2
YOUNGSTOWN, OHIO 44615
330-272-9330

REVISIONS		DATE	DESCRIPTION
REV.	01	6-6-25	ADDENDUM 2

ISSUED FOR:	ADDEN. 2
ISSUE DATE:	JUNE 2025
SCALE:	AS SHOWN
DESIGNED BY:	CMK
DRAWN BY:	BEK
CHECKED BY:	CMK

SANITARY SEWER IMPROVEMENT PROJECT
PARSONS AVENUE
VILLAGE OF LOWELLVILLE, OHIO

EROSION & SEDIMENTATION CONTROL NOTES & DETAILS

PROJECT NO. 232475	
SHEET NAME D-3	
SHEET 9	OF 9

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