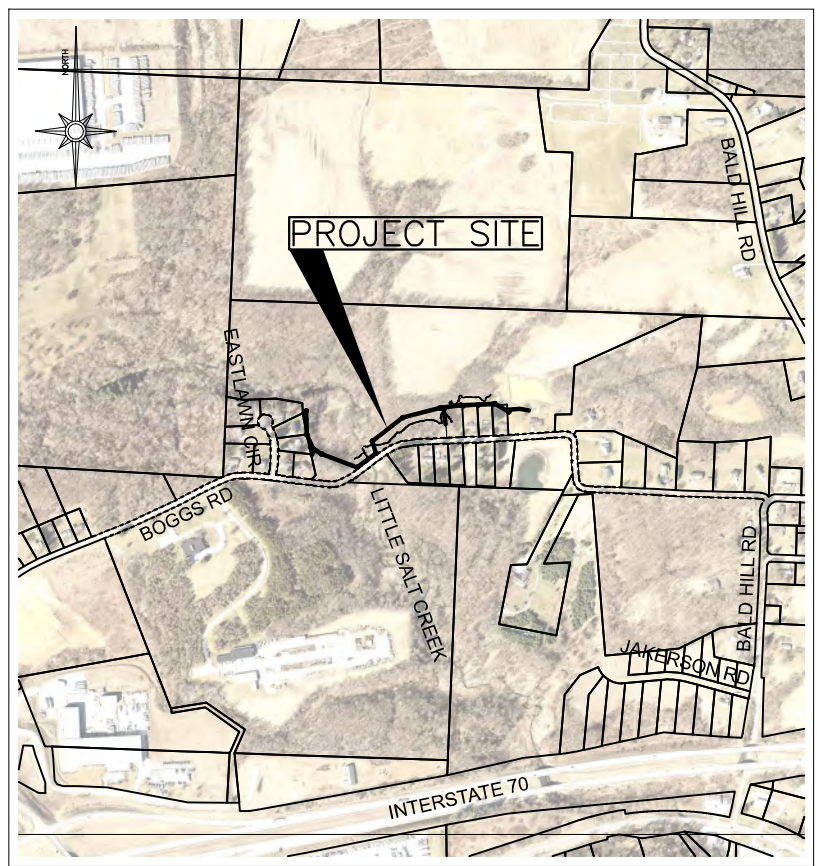


BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PERRY TOWNSHIP MUSKINGUM COUNTY, OHIO

PROJECT DESCRIPTION

THE DESIGN OF SANITARY SEWER IMPROVEMENTS ON BOGGS ROAD
FROM EASTLAWN CIRCLE TO 5305 BOGGS ROAD



INDEX OF SHEETS:

TITLE SHEET.....	1
SYMBOLS & LINE STYLES LEGEND.....	2
GENERAL NOTES.....	3-4
DETAILS.....	5-6
PLAN & PROFILE SHEETS.....	7-15
EROSION CONTROL DETAILS.....	16-18

MELISSA J. BELL, PRESIDENT
MUSKINGUM COUNTY COMMISSIONER

DATE

[Signature]

8-25-25

DRAKE L. PROUTY
MUSKINGUM COUNTY COMMISSIONER

DATE

[Signature]

8-25-25

CINDY S. CAMERON
MUSKINGUM COUNTY COMMISSIONER

DATE

PROPERTY OWNER:
MUSKINGUM COUNTY COMMISSIONERS
401 MAIN STREET
ZANESVILLE, OHIO 43701

CONTACT PERSON:
DON MADDEN, PROJECTS DIRECTOR
401 MAIN STREET
ZANESVILLE, OHIO 43701
(740) 588-4389

NOTE TO CONTRACTOR:

ANY MODIFICATIONS TO THE SANITARY SEWER IMPROVEMENTS SHOWN ARE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. THIS POLICY SHALL BE ADHERED TO THROUGHOUT THE LIFE OF THIS PROJECT. ANY MODIFICATIONS MADE THAT HAVE NOT BEEN APPROVED BY THE PROJECT ENGINEER MAY BE SUBJECT TO REMOVAL, AT THE DISCRETION OF THE PROJECT ENGINEER. THE COST TO REMOVE UNAPPROVED WORK SHALL BE BURDENED BY THE CONTRACTOR WHO PERFORMED SAID WORK, NOT THE OWNERS OR THE PROJECT ENGINEER.

UNDERGROUND UTILITIES

TWO WORKING DAYS

BEFORE YOU DIG

CALL 1-800-362-2764

OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS

MUST BE CALLED DIRECTLY

REVISIONS			
NO.	DATE ISSUED	DESCRIPTION	SHEET NOS.
1	10/06/2025	MODIFICATION OF MANHOLE CASTING REQUIREMENTS. GENERAL NOTE ADDED TO ADDRESS RESTRICTED PERIODS OF CONSTRUCTION AS A RESULT OF PERMIT AND EASEMENTS.	4
2	10/09/2025	MODIFICATION OF MANHOLE CASTING REQUIREMENTS. MODIFICATION OF MANHOLE TOP OF CASTING ELEVATIONS. CLARIFICATION ON HOW JOINT RESTRAINTS WILL BE PAID.	4, 5, 7-15
3	12/08/2025	MODIFICATION OF MANHOLE TOP OF CASTING ELEVATIONS BASED ON CONTRACTOR'S FIELD VERIFICATION PER GENERAL NOTES.	9, 11-15

ENGINEER'S SEAL:

SIGNED: *[Signature]*

DATE: *12-08-25*

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

Muskingum County
ENGINEER'S OFFICE

BOGGS ROAD SANITARY SEWER IMPROVEMENTS

ZANESVILLE, OHIO 43701

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

09/09/2024

REVISED:

12/08/2025

SHEET SIZE:






































































11" x 17"
























SHEET NAME:

TITLE SHEET

SHEET NUMBER:

01
18

	LIGHT POLE		EXISTING FIRE HYDRANT		EXISTING GAS VALVE		EXISTING ELECTRIC RISER/PULL BOX		STOP CHECK VALVE	
	LIGHT/POWER POLE		PROPOSED FIRE HYDRANT		PROPOSED GAS VALVE		PROPOSED ELECTRIC RISER/PULL BOX		EXISTING MAILBOX	
	POWER POLE		EXISTING WATER GATE VALVE		EXISTING GAS SERVICE STOP		EXISTING ELECTRIC METER		PROPOSED MAILBOX	
	POWER POLE		PROPOSED WATER GATE VALVE		PROPOSED GAS SERVICE STOP		PROPOSED ELECTRIC METER		MAILBOX	
	TELECOM POLE		EXISTING WATER METER		EXISTING GAS LINE VENT		EXISTING ELECTRIC MANHOLE		EXISTING TREE	
	LIGHT/TELECOM POLE		PROPOSED WATER METER		EXISTING SANITARY SEWER MANHOLE		PROPOSED ELECTRIC MANHOLE		EXISTING EVERGREEN TREE	
	TELECOM/LIGHT/POWER POLE		EXISTING WATER MANHOLE		PROPOSED SANITARY SEWER MANHOLE		EXISTING TELECOM MANHOLE		EXISTING SHRUB	
	UNKNOWN POLE		PROPOSED WATER MANHOLE		EXISTING SEPTIC TANK		PROPOSED TELECOM MANHOLE		EXISTING STONE FOUND	
	SIGN POLE		EXISTING CATCH BASIN NO. 2 - 2B		PROPOSED SEPTIC TANK		EXISTING TELEPHONE PEDESTAL		EXISTING LARGE ROCK	
	GUY WIRE ANCHOR		PROPOSED CATCH BASIN NO. 2 - 2B		EXISTING SEWER PUMP STATION		PROPOSED TELEPHONE PEDESTAL		GRINDER PUMP	
	CELLPHONE TOWER		EXISTING GAS METER		EXISTING SANITARY SEWER VALVE		EXISTING UNKNOWN PULL BOX		SPRING DEVELOPED	
	EXISTING TOWER		PROPOSED GAS METER		PROPOSED SANITARY SEWER VALVE		EXISTING UNKNOWN MANHOLE		SIGNAL PEDESTAL	
	HALF HEADWALL		EXISTING GAS MANHOLE		EXISTING SANITARY SEWER LINE VENT		EXISTING UNKNOWN UTILITY VALVE		PRIVATE/PUBLIC SIGN	
	HEADWALL		PROPOSED GAS MANHOLE		CLEAN OUT		PLUG VALVE			

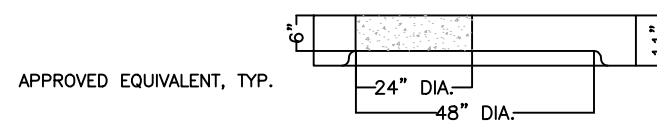
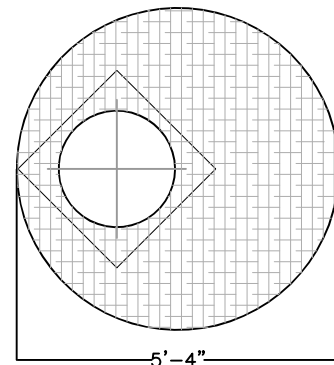
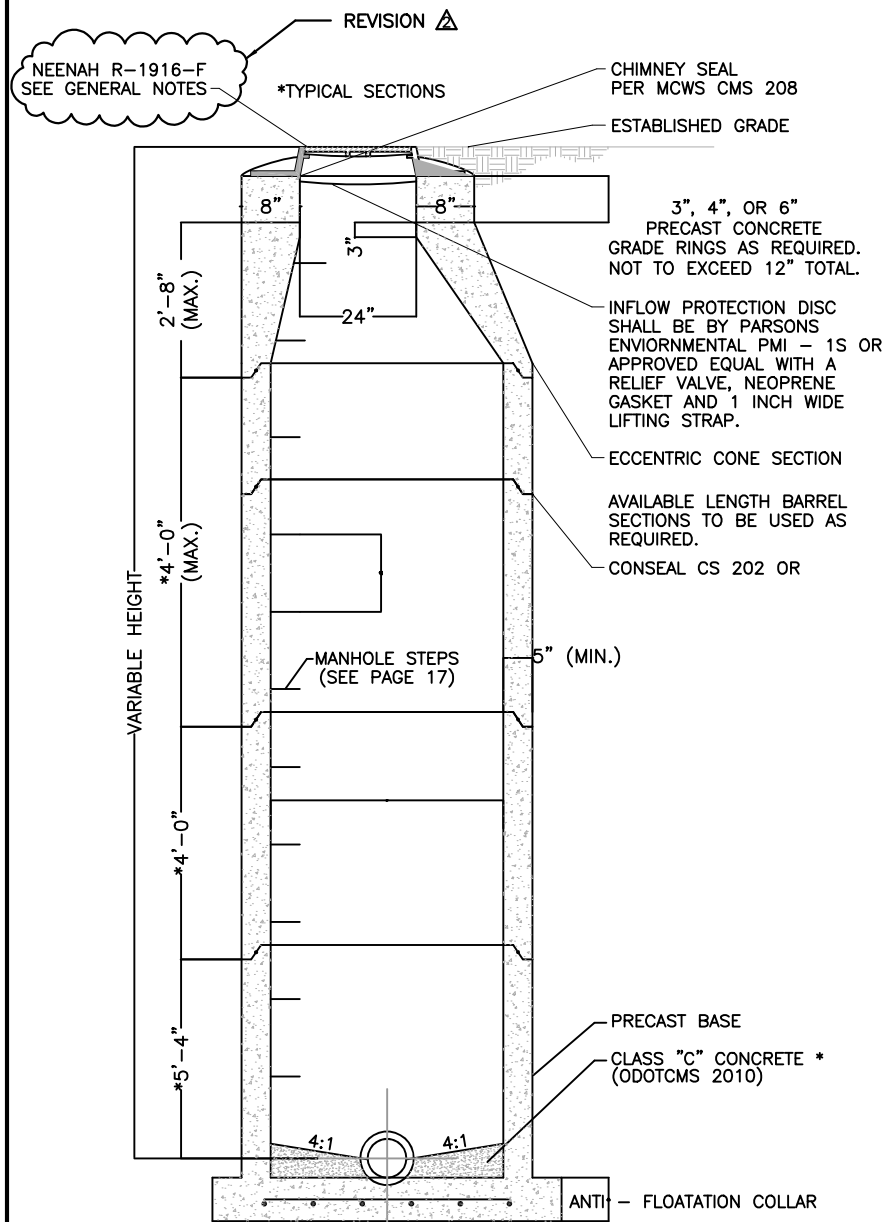
LINE STYLES		
	PROPOSED SANITARY	
	UGE	UNDERGROUND ELECTRIC
	UGT	UNDERGROUND TELECOM
	AFM	ABANDONED FORCEMAIN
	FM	FORCEMAIN
	EXISTING UNDER DRAIN	
	-G-G-G-G-G-G-G-G-	GAS LINE
	-W-W-W-W-W-W-W-W-	WATER LINE
	-E-E-E-E-E-E-E-E-	ELECTRIC LINE
	-U-U-U-U-U-U-U-U-	UTILITY LINE
	-S-S-S-S-S-S-S-S-	SANITARY LINE
	-F-F-F-F-F-F-F-F-	FENCE
	-V-V-V-V-V-V-V-V-	VEGETATION
	-X-X-X-X-X-X-X-	EXISTING FENCE
	-XR/W-XR/W-XR/W-	EXISTING RIGHT OF WAY
	-XL/A-XL/A-XL/A-	EXISTING LIMITED ACCESS
	-XRR-XRR-XRR-	EXISTING RAILROAD RIGHT OF WAY
	-S/W-S/W-S/W-	PROPOSED EASEMENT
	- . - . - . - . -	PROPOSED EASEMENT
	- - - - -	PROPOSED STORM LINE
	- ST - ST - ST - ST - ST -	EXISTING STORM LINE
	- - - - -	EXISTING SIDEWALK
	- - - - -	SHOULDER AGGREGATE

- | UTILITY | OWNER | PHONE NUMBER |
|----------------|---------------------------------|--------------|
| GAS/PETROLEUM | CAMERON DRILLING CO, INC. | 330.493.0440 |
| GAS/PETROLEUM | ENERGEX POWER, INC. | 724.622.0093 |
| GAS | THE ENERGY COOP | 740.344.2102 |
| ELECTRIC | AEP | 614.716.1000 |
| WATER | MUSKINGUM COUNTY WATER DEPT | 740.453.0678 |
| WASTEWATER | MUSKINGUM COUNTY SEWER DEPT | 740.452.4940 |
| COMMUNICATIONS | AT&T OHIO | 740.454.3455 |
| COMMUNICATIONS | CHARTER/SPECTRUM COMMUNICATIONS | 888.438.2427 |

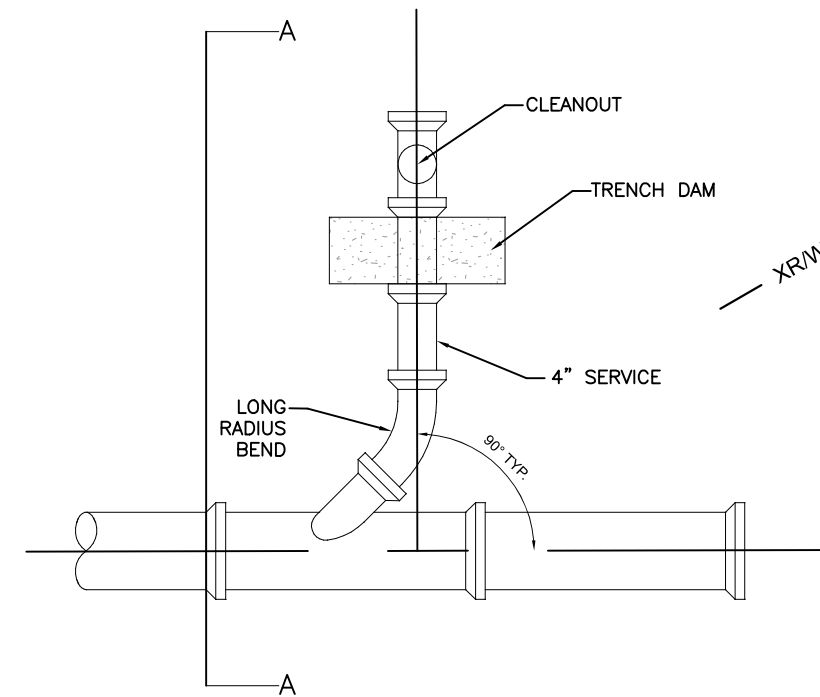
NO NON-RUBBER TIRE VEHICLES:
NO NON-RUBBER TIRE VEHICLES SHALL BE MOVED ON COUNTY STREETS, EXISTING PRIVATE ROADWAYS OR PARKING LOTS. EXCEPTIONS MAY BE GRANTED BY THE COUNTY, FOR PUBLIC ROADWAYS ONLY, WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY DAMAGE MUST BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY.

- 21. MAINTAIN DRAINAGE:**
THE FLOW IN ALL SEWERS, DRAINS, AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE

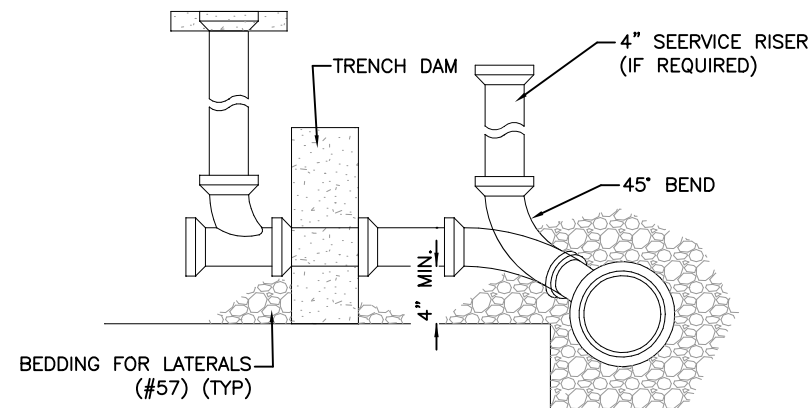
ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGH THIS PROJECT BY THE CONTRACTOR. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARY RELOCATED AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGE, AND IMPROPERLY PLACED SIGNS. ANY WORK DONE BY THE COUNTY, INCLUDED INSTALLATION, MODIFICATION REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC



ALTERNATE TOP SLAB

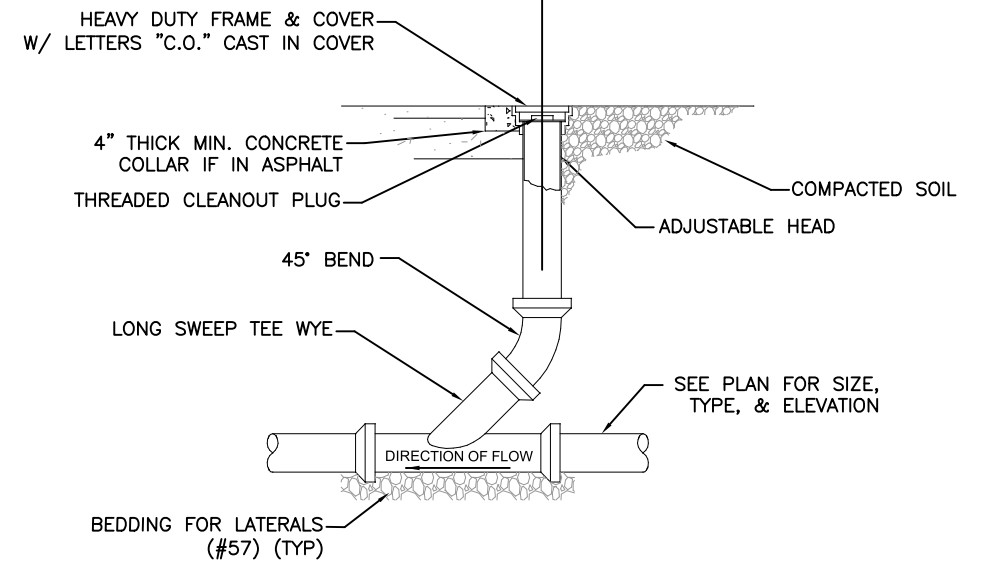
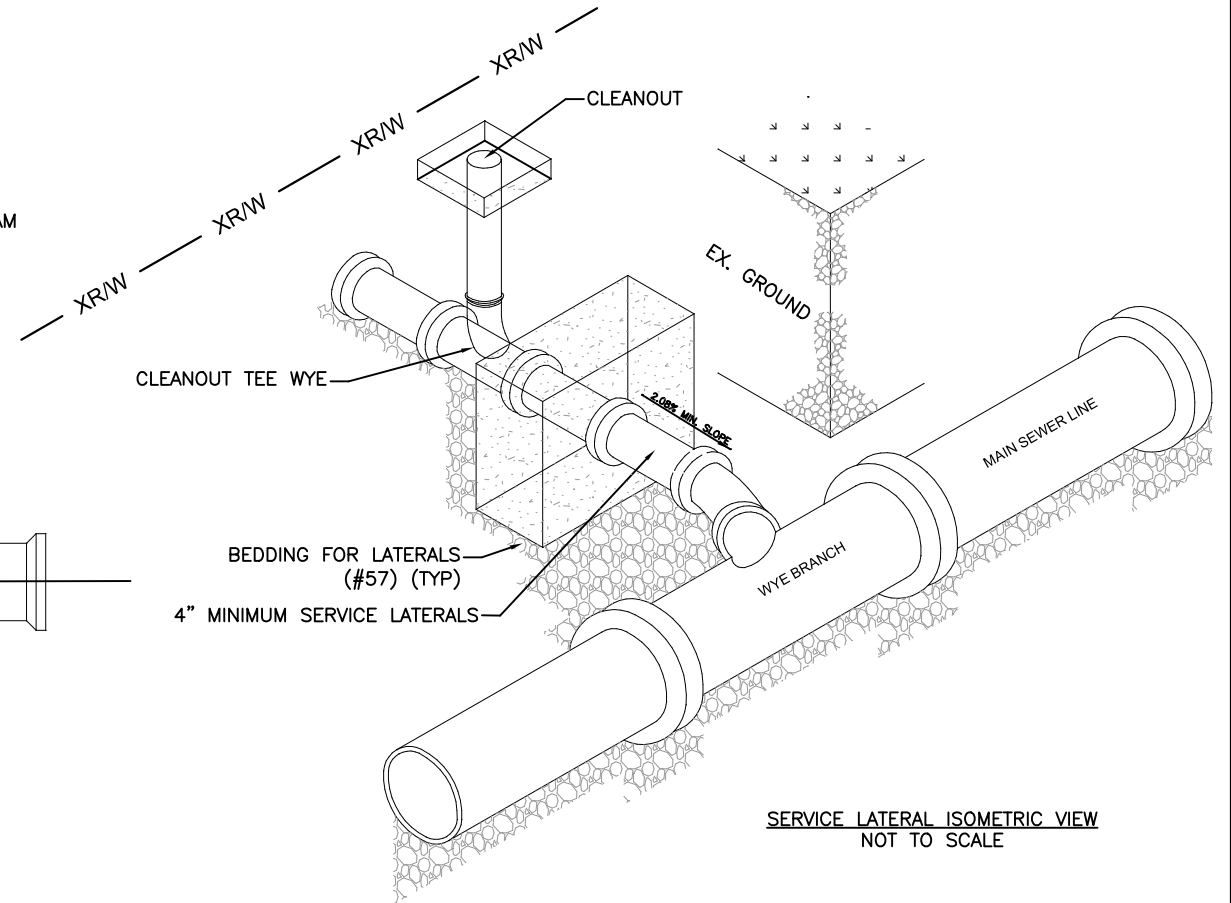


SERVICE LATERAL PLAN VIEW
NOT TO SCALE



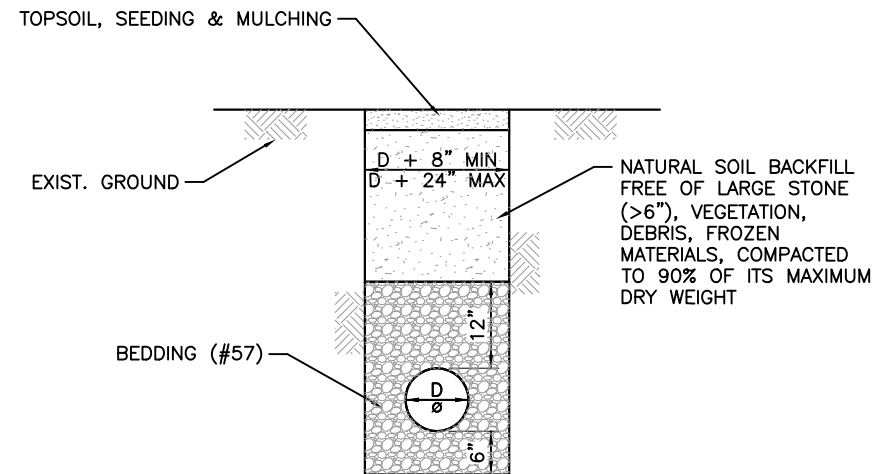
SERVICE LATERAL SECTION A-A
NOT TO SCALE

- NOTES:
1. COST OF TRENCH DAM, RISER, CLEAN OUT, CLEAN OUT TEE WYE, PIPE BENDS, BEDDING, HEAVY DUTY FRAME & COVER, CONCRETE COLLAR, AND COMPACTION TO BE INCLUDED IN THE PRICE FOR SERVICE LATERAL PIPE.
 2. ALL SERVICE LINES, RISERS, ETC. ASSOCIATED WITH NEW SANITARY SEWER SERVICE SHALL BE 4" DIAMETER UNLESS NOTED IN THE PLANS OTHERWISE.
 3. CONTRACTOR CAN USE NO. 8 STONE IN LIEU OF NO. 57 STONE AS LONG AS COMPACTION REQUIREMENTS ARE MET AT NO ADDITIONAL COST TO THE OWNER.
 4. SEE MUSKINGUM COUNTY SEWER STANDARDS FOR ADDITIONAL INFORMATION REGARDING STANDARD MANHOLE SHOWN HERE.

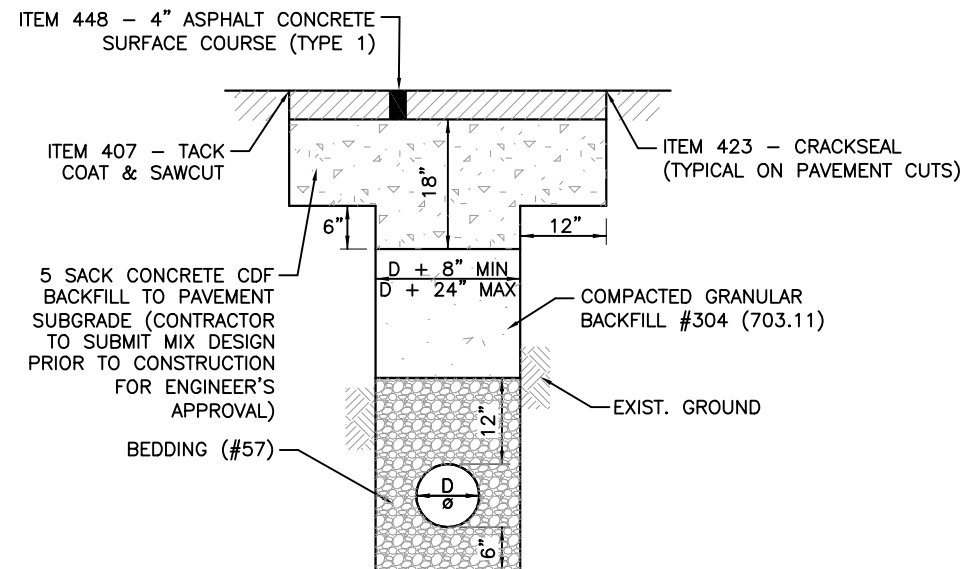


ROAD ONLY CLEANOUT DETAIL
NOT TO SCALE

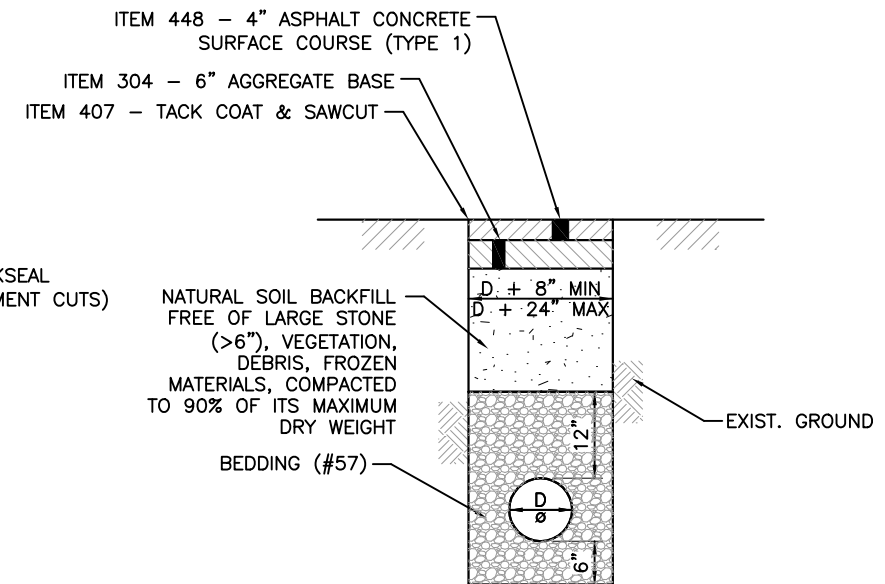
REVISION	REV. BY	DATE	DESCRIPTION
Δ	GJW	10/09/2025	MODIFICATION OF MANHOLE CASTING REQUIREMENTS.



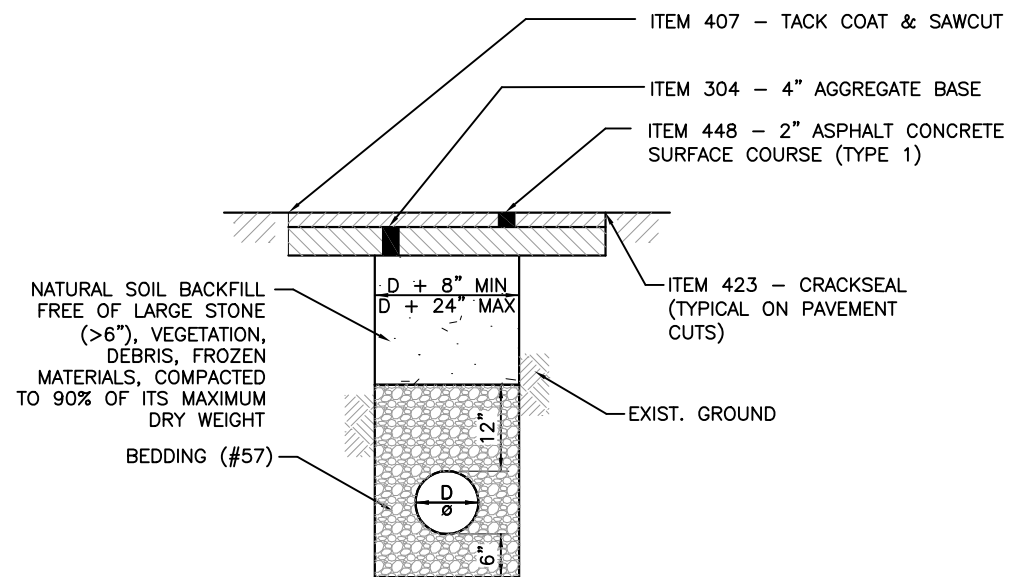
LANDSCAPE AREA REPAIR
NOT TO SCALE



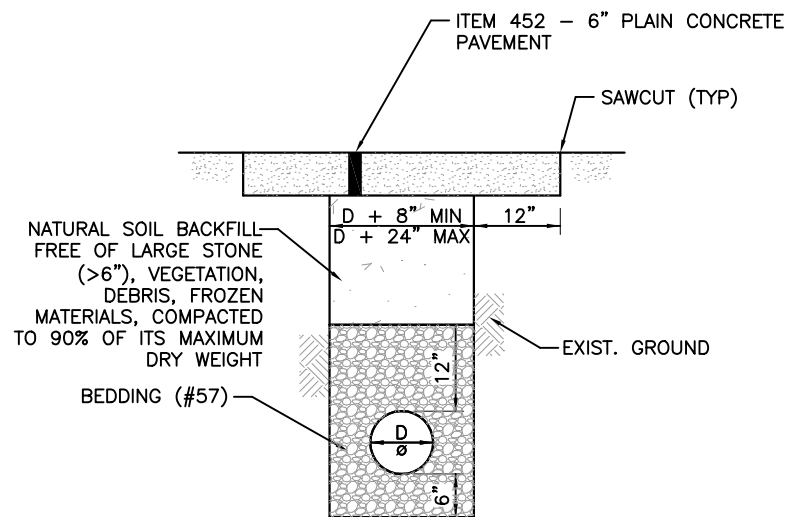
ROADWAY PAVEMENT REPAIR
NOT TO SCALE



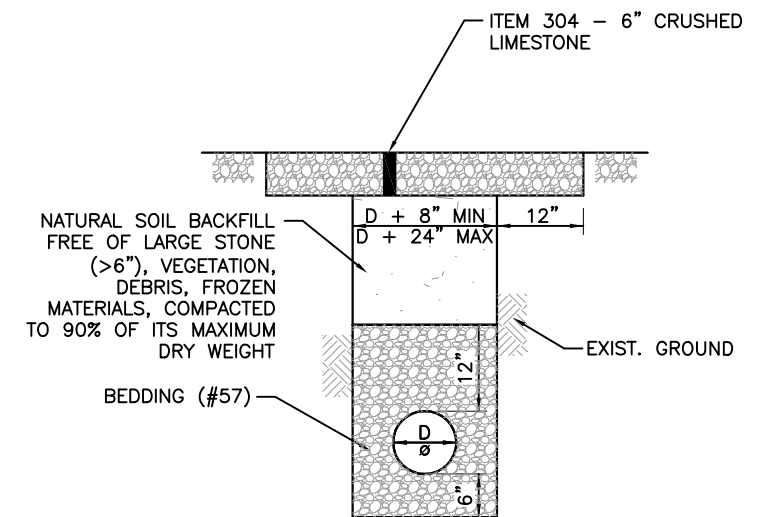
ALLEY PAVEMENT REPAIR
NOT TO SCALE



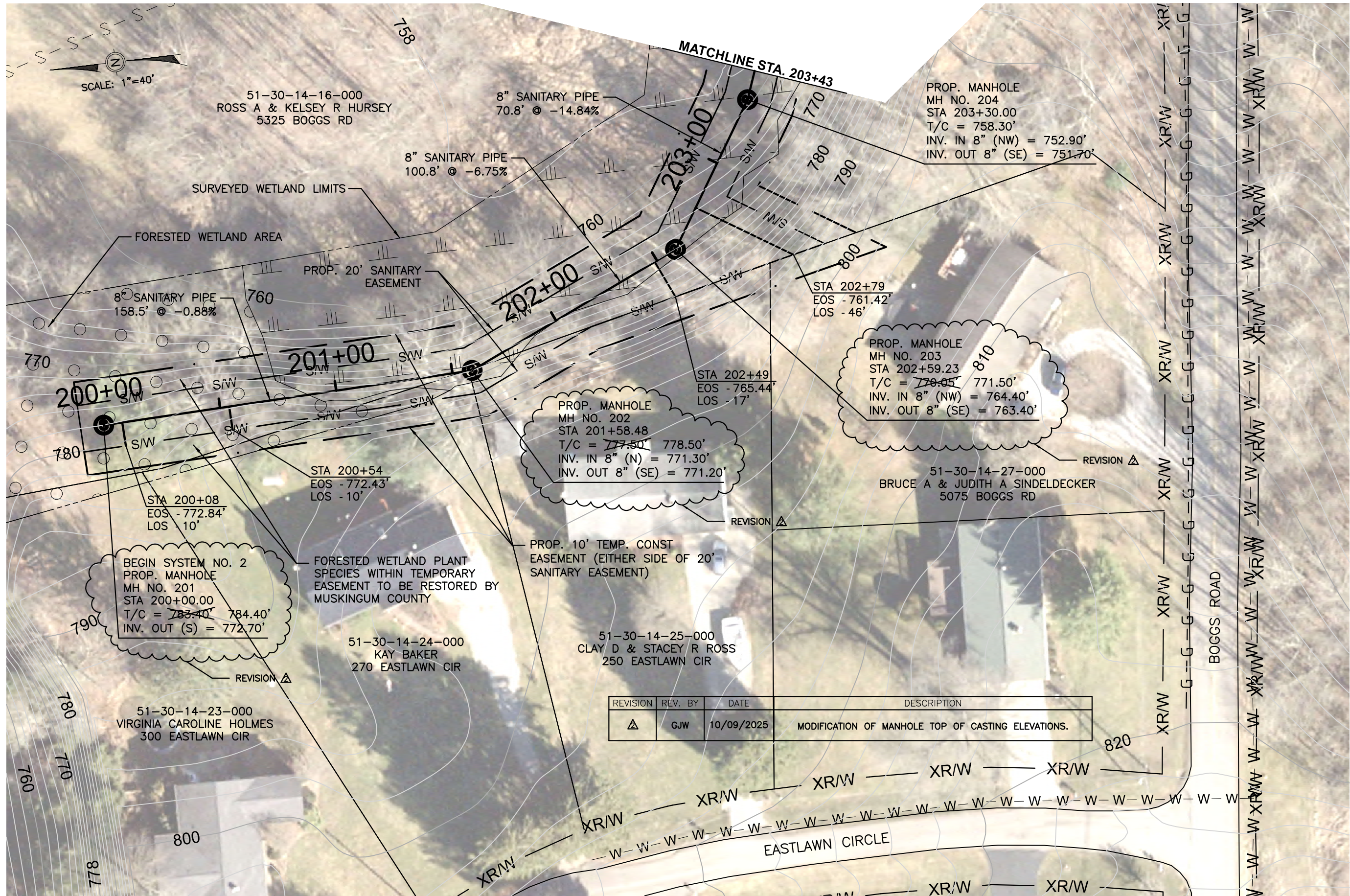
ASPHALT DRIVEWAY REPAIR
NOT TO SCALE



CONCRETE DRIVEWAY REPAIR
NOT TO SCALE



GRAVEL DRIVEWAY REPAIR
NOT TO SCALE



PREPARED BY:

PROJECT NAME: BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT LOCATION:

ZANESVILLE, OHIO 43701

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

09/09/2024

REVISED:

10/09/2025

SHEET SIZE:

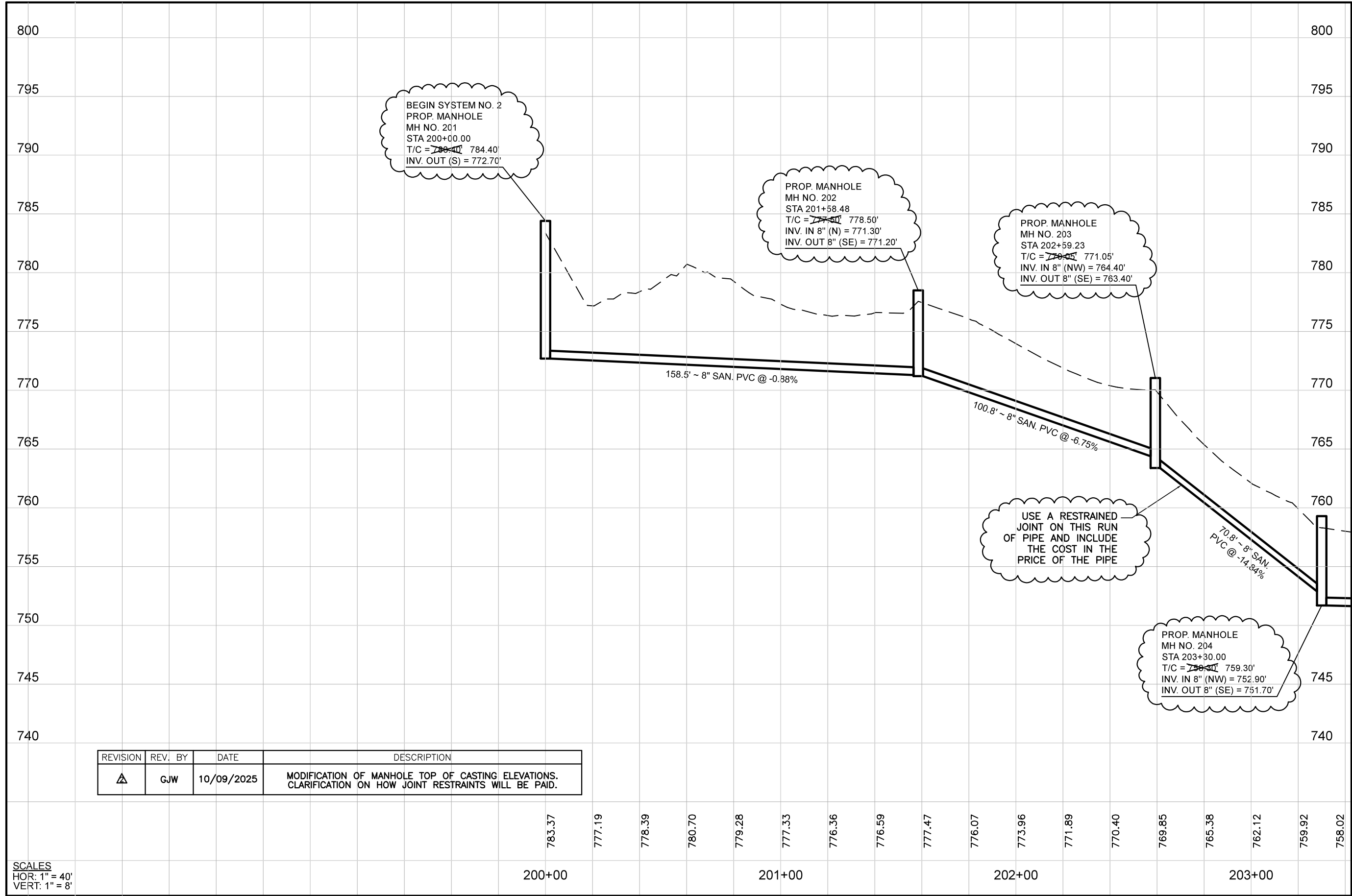
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SHEET NAME:

PLAN SHEET (1)

SHEET NUMBER:

07
18



REVISION	REV. BY	DATE	DESCRIPTION
△	GJW	10/09/2025	MODIFICATION OF MANHOLE TOP OF CASTING ELEVATIONS. CLARIFICATION ON HOW JOINT RESTRAINTS WILL BE PAID.

SCALES
HOR: 1" = 40'
VERT: 1" = 8'

MATCHLINE STA. 203+43

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

Muskingum County
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME:
BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT LOCATION:
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

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DATE:

09/09/2024

REVISED:

10/09/2025

SHEET SIZE:

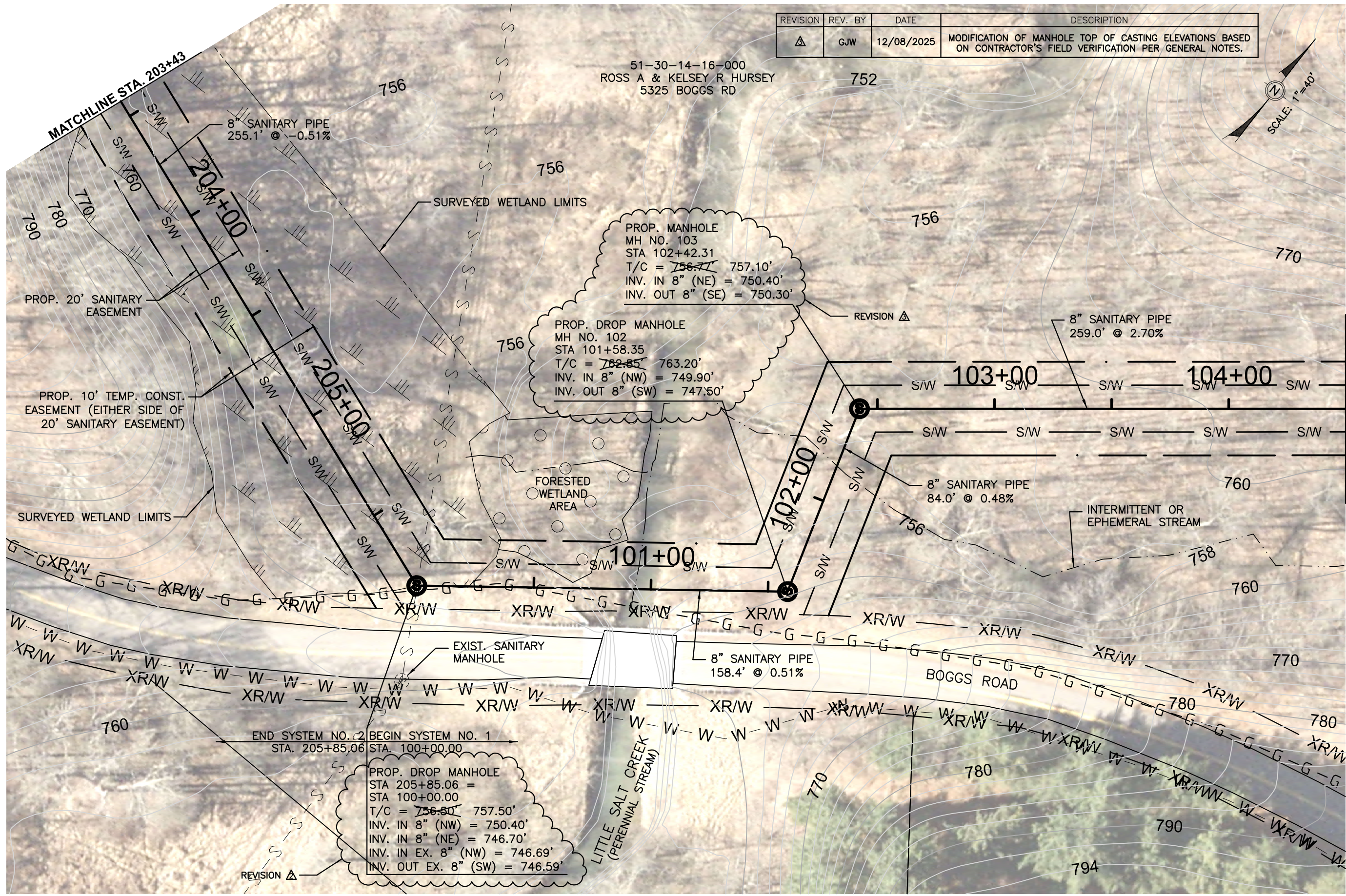
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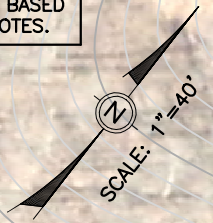
PROFILE SHEET (1)

SHEET NUMBER:

08
18



REVISION	REV. BY	DATE	DESCRIPTION
Δ	GJW	12/08/2025	MODIFICATION OF MANHOLE TOP OF CASTING ELEVATIONS BASED ON CONTRACTOR'S FIELD VERIFICATION PER GENERAL NOTES.



MATCHLINE STA. 104+50

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

Muskingum
County
ENGINEER'S OFFICE

PROJECT NAME
BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT LOCATION
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

DATE:
09/09/2024

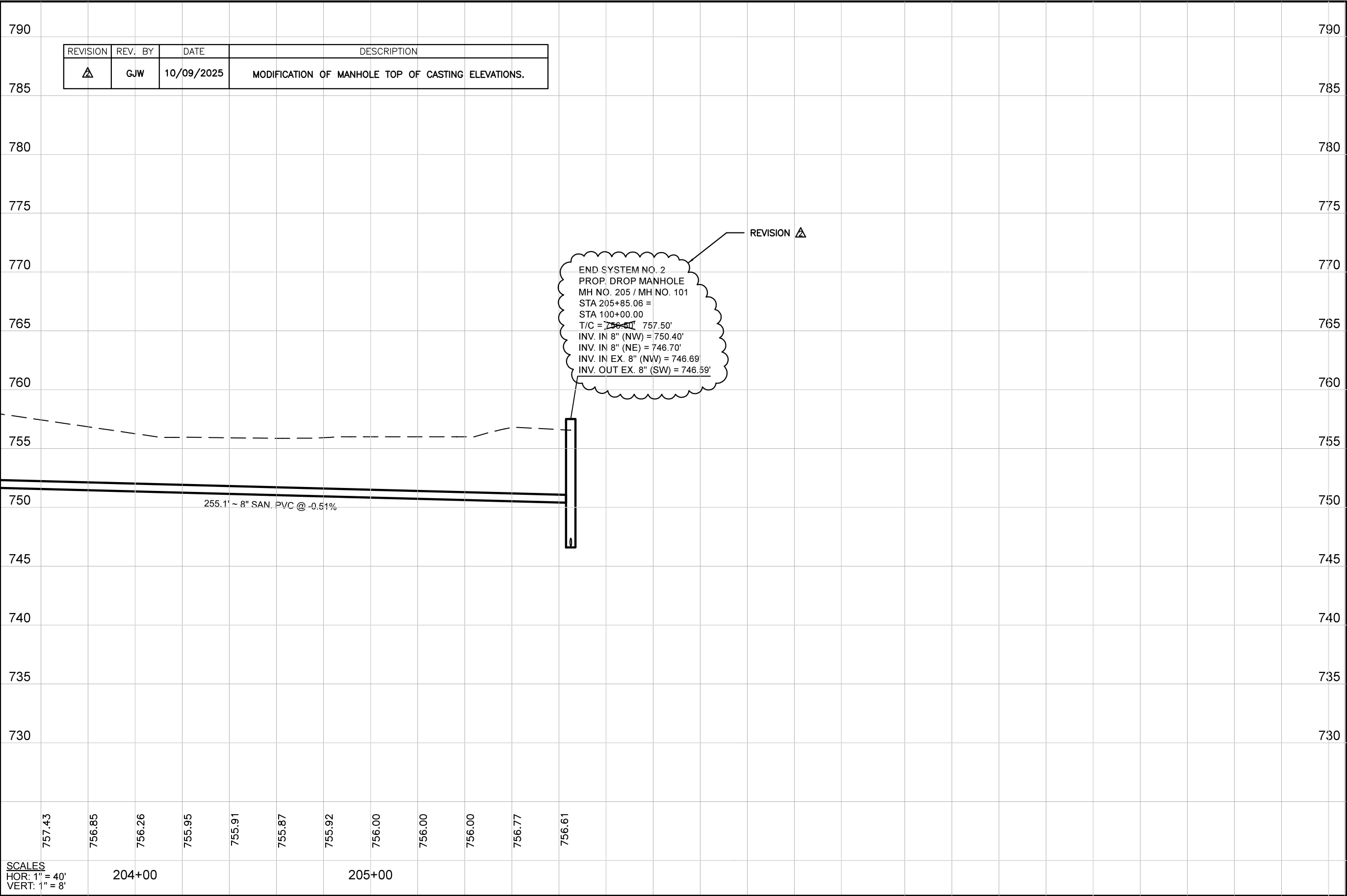
REVISED:
12/08/2025

SHEET SIZE:
11" x 17"

SHEET NAME:
PLAN SHEET (2)

SHEET NUMBER:
09
18

MATCHLINE STA. 203+43



REVISION	REV. BY	DATE	DESCRIPTION
	GJW	10/09/2025	MODIFICATION OF MANHOLE TOP OF CASTING ELEVATIONS.

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

Muskington
County
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME:
BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT LOCATION:
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

09/09/2024

REVISED:

10/09/2025

SHEET SIZE:

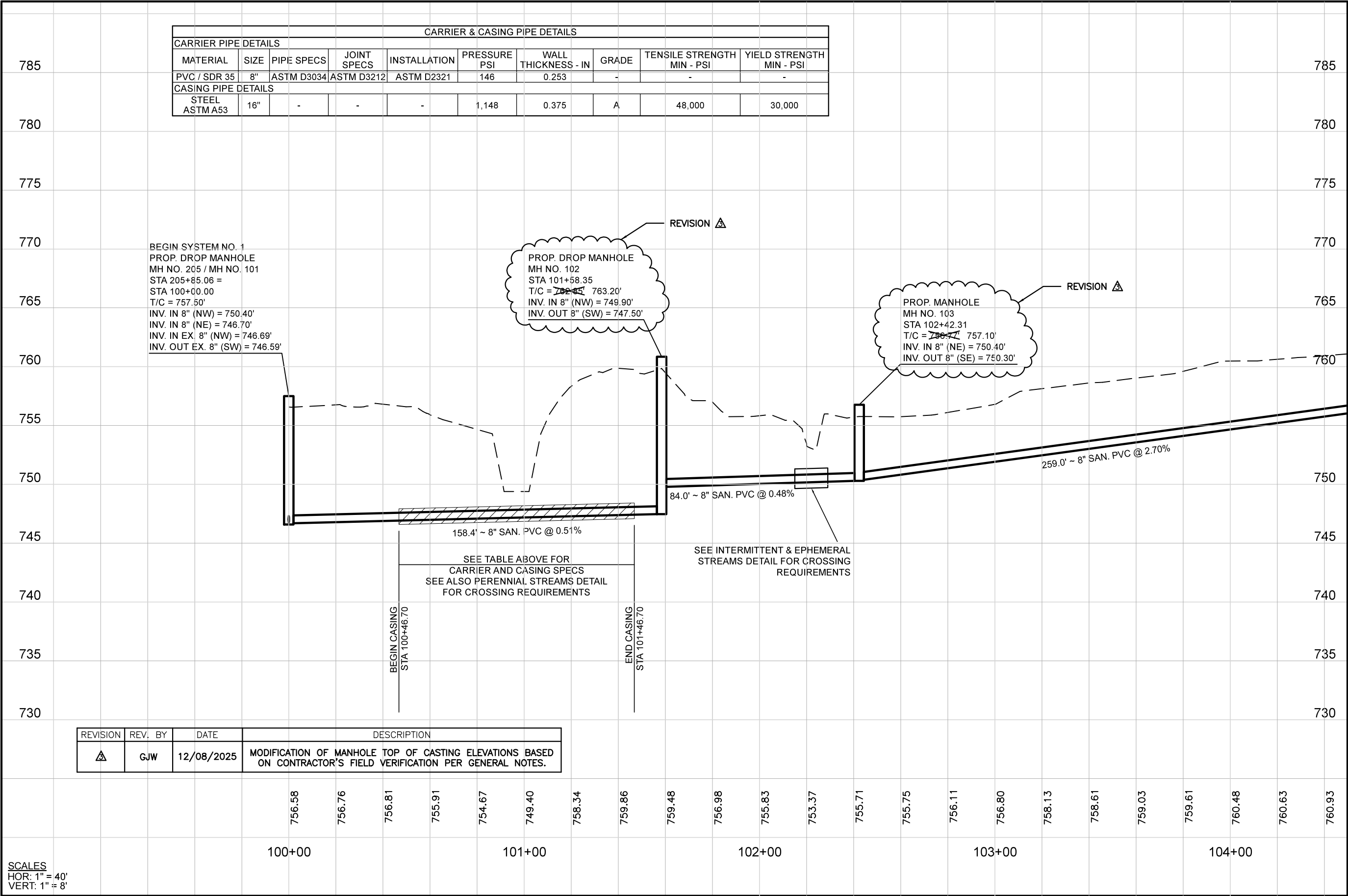
11" x 17"

SHEET NAME:

PROFILE SHEET (2)

SHEET NUMBER:

10
18



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

PREPARED BY:
Muskingum County Engineer's Office

PROJECT NAME:
BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT LOCATION:
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

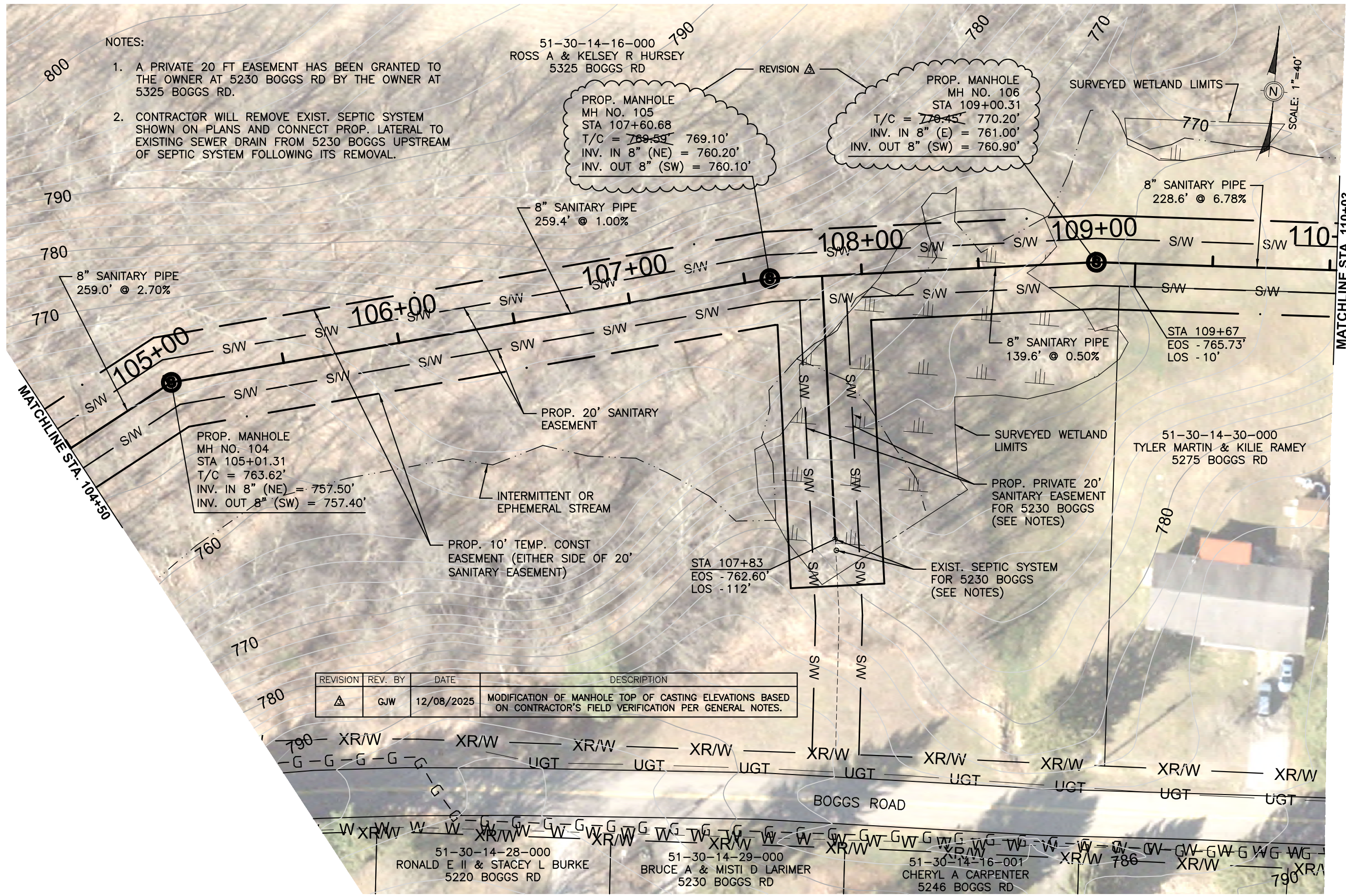
DATE:
08/25/2025

REVISED:
12/08/2025

SHEET SIZE:
11" x 17"

SHEET NAME:
PROFILE SHEET (2A)

SHEET NUMBER:
11 / 18



- NOTES:
1. A PRIVATE 20 FT EASEMENT HAS BEEN GRANTED TO THE OWNER AT 5230 BOGGS RD BY THE OWNER AT 5325 BOGGS RD.
 2. CONTRACTOR WILL REMOVE EXIST. SEPTIC SYSTEM SHOWN ON PLANS AND CONNECT PROP. LATERAL TO EXISTING SEWER DRAIN FROM 5230 BOGGS UPSTREAM OF SEPTIC SYSTEM FOLLOWING ITS REMOVAL.

PROP. MANHOLE
MH NO. 105
STA 107+60.68
T/C = ~~769.59~~ 769.10'
INV. IN 8" (NE) = 760.20'
INV. OUT 8" (SW) = 760.10'

PROP. MANHOLE
MH NO. 106
STA 109+00.31
T/C = ~~770.45~~ 770.20'
INV. IN 8" (E) = 761.00'
INV. OUT 8" (SW) = 760.90'

PROP. MANHOLE
MH NO. 104
STA 105+01.31
T/C = 763.62'
INV. IN 8" (NE) = 757.50'
INV. OUT 8" (SW) = 757.40'

REVISION	REV. BY	DATE	DESCRIPTION
Δ	GJW	12/08/2025	MODIFICATION OF MANHOLE TOP OF CASTING ELEVATIONS BASED ON CONTRACTOR'S FIELD VERIFICATION PER GENERAL NOTES.

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

Muskingum
County
ENGINEER'S OFFICE

PREPARED BY:
PROJECT NAME
BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT LOCATION
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

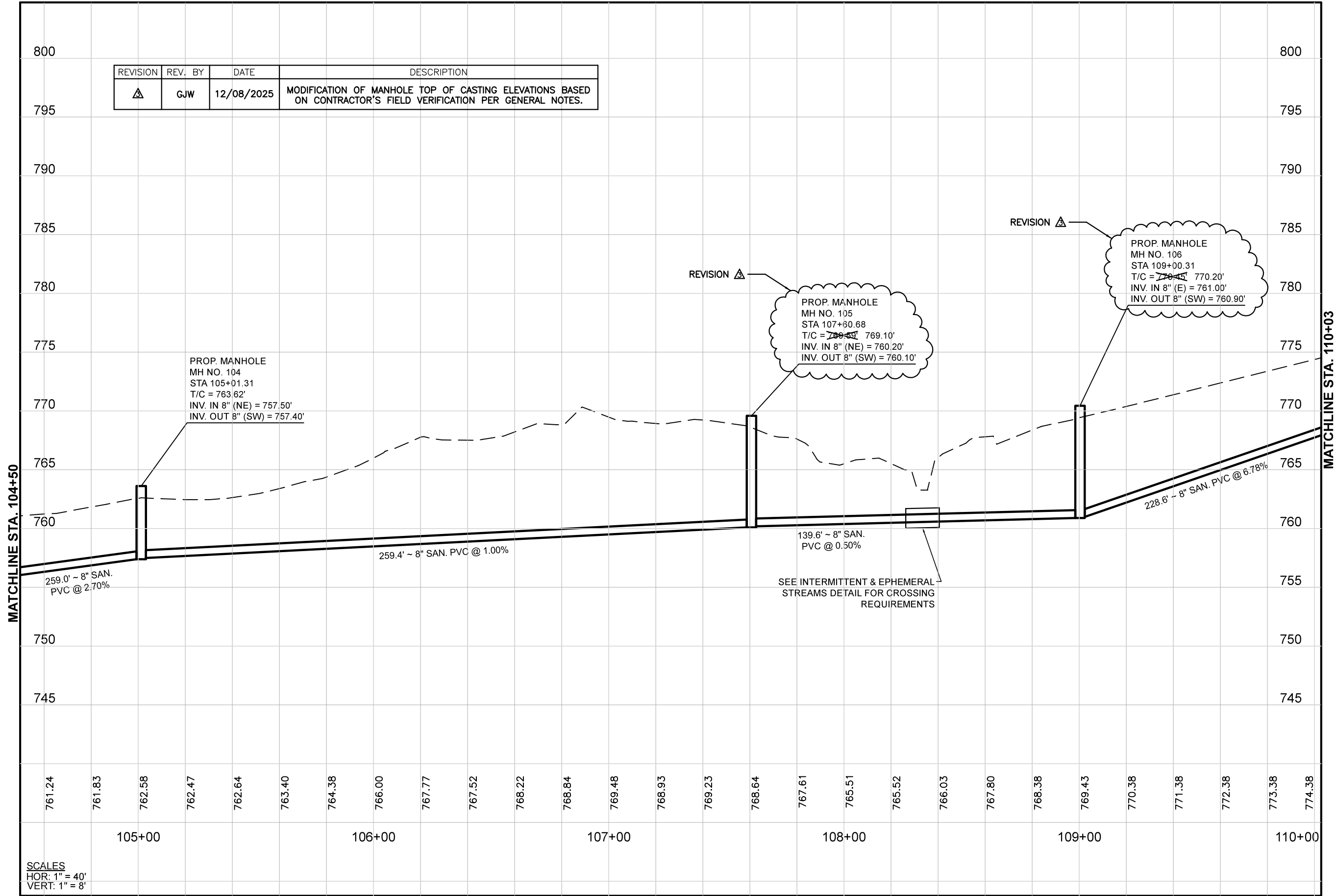
DATE:
09/09/2024

REVISED:
12/08/2025

SHEET SIZE:
11" x 17"

SHEET NAME:
PLAN SHEET (3)

SHEET NUMBER:
12
18



Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155


ENGINEER'S OFFICE

PREPARED BY:

BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT NAME

ZANESVILLE, OHIO 43701

PROJECT LOCATION

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

09/09/2024

REVISED:

12/08/2025

SHEET SIZE:

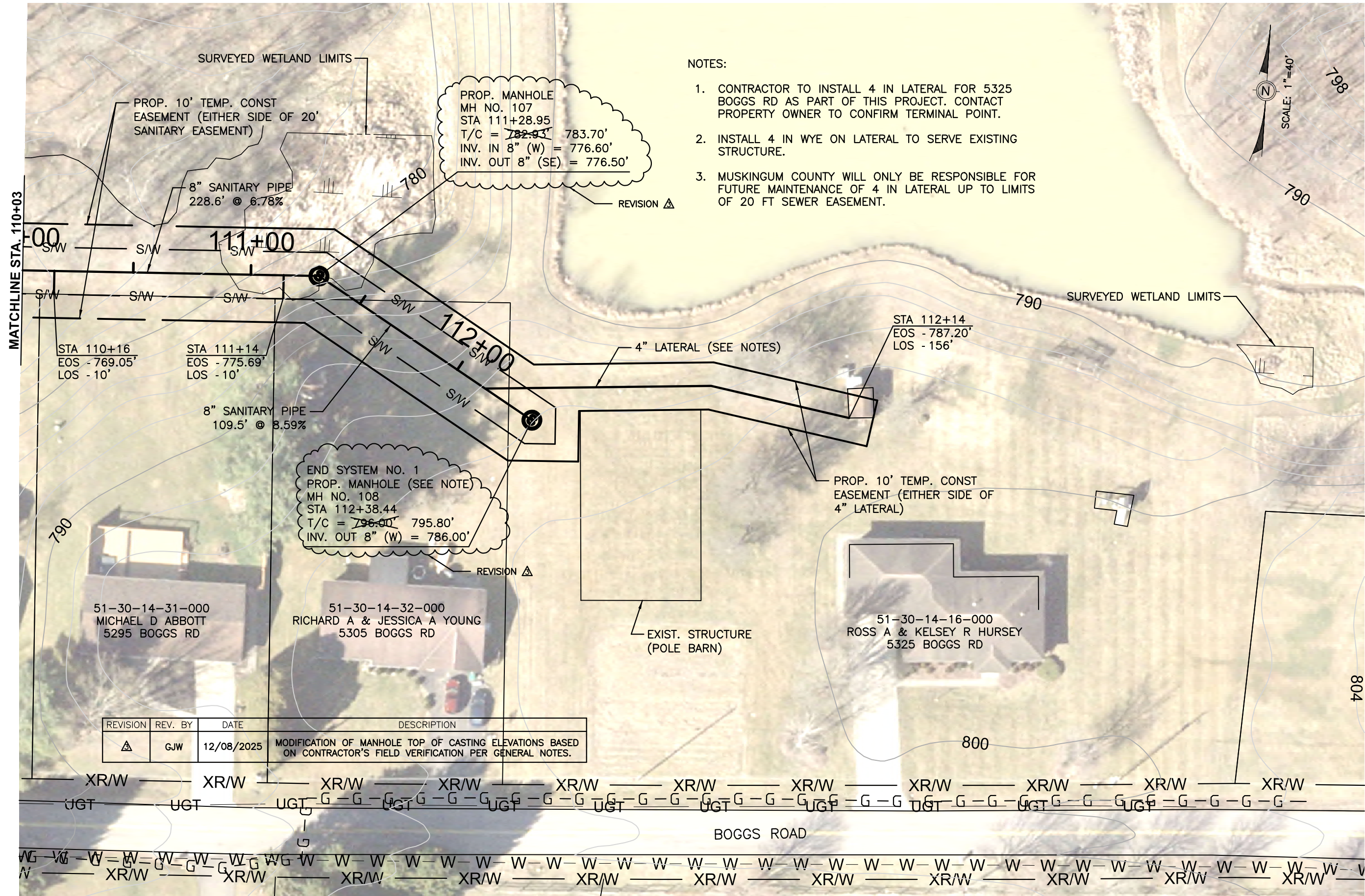
11" x 17"

SHEET NAME:

PROFILE SHEET (3)

SHEET NUMBER:

13
18



NOTES:

1. CONTRACTOR TO INSTALL 4 IN LATERAL FOR 5325 BOGGS RD AS PART OF THIS PROJECT. CONTACT PROPERTY OWNER TO CONFIRM TERMINAL POINT.
2. INSTALL 4 IN WYE ON LATERAL TO SERVE EXISTING STRUCTURE.
3. MUSKINGUM COUNTY WILL ONLY BE RESPONSIBLE FOR FUTURE MAINTENANCE OF 4 IN LATERAL UP TO LIMITS OF 20 FT SEWER EASEMENT.

REVISION	REV. BY	DATE	DESCRIPTION
Δ	GJW	12/08/2025	MODIFICATION OF MANHOLE TOP OF CASTING ELEVATIONS BASED ON CONTRACTOR'S FIELD VERIFICATION PER GENERAL NOTES.

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

Muskingum County
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME:
BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT LOCATION:
ZANESVILLE, OHIO 43701

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

09/09/2024

REVISED:

12/08/2025

SHEET SIZE:

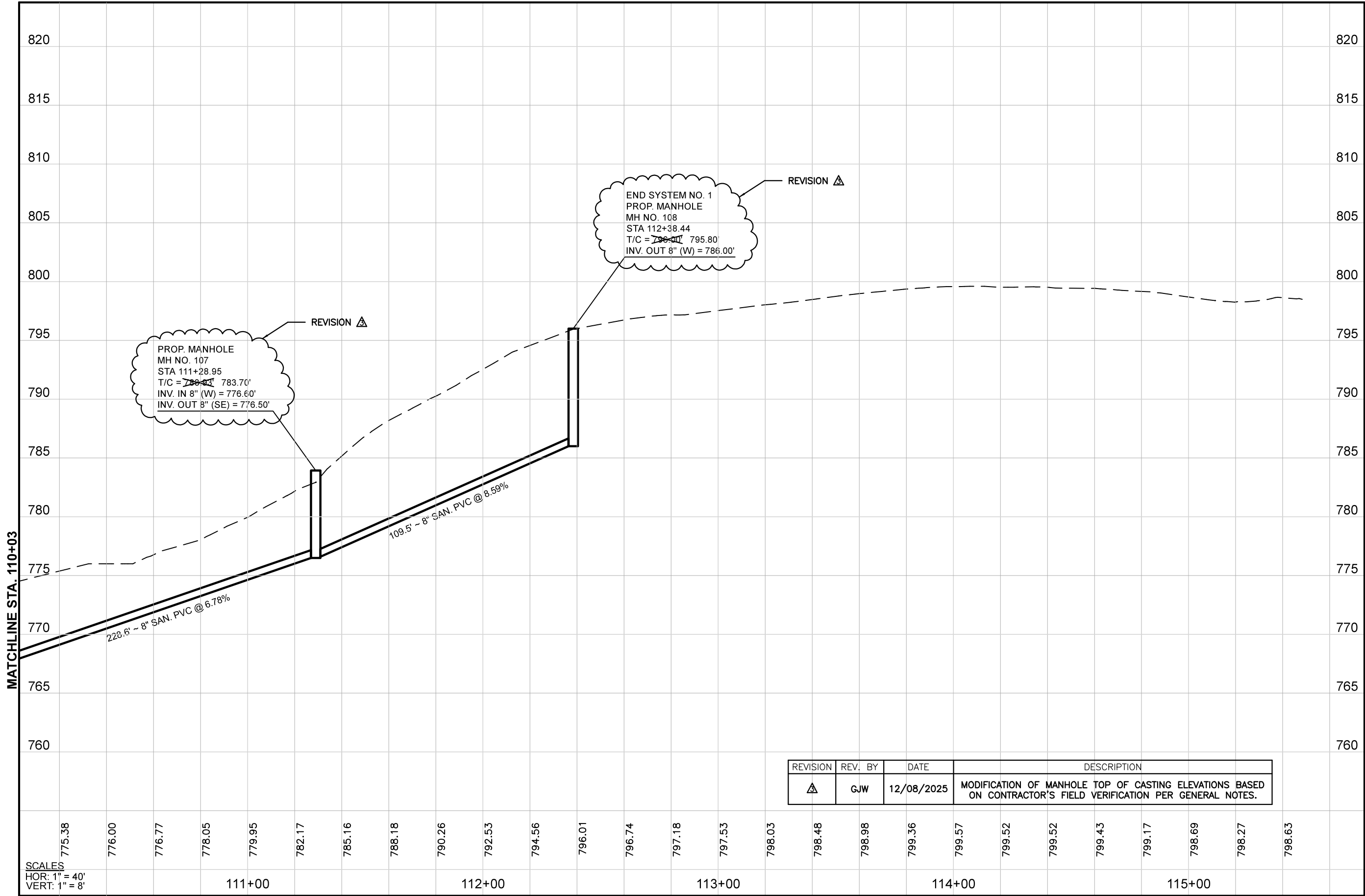
11" x 17"

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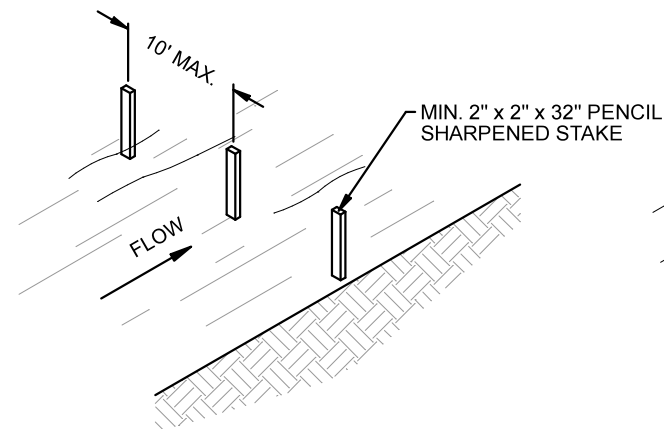
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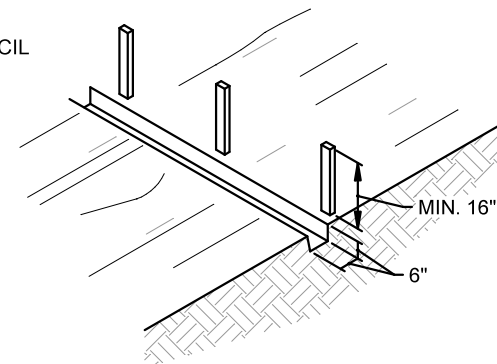
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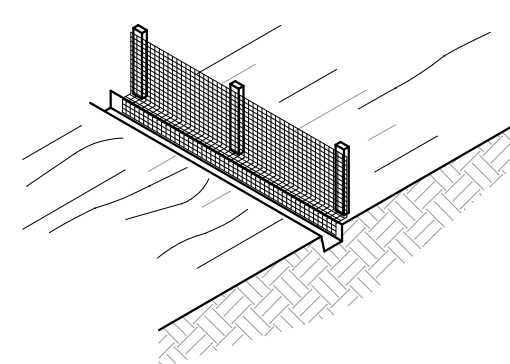
1) SET THE STAKES



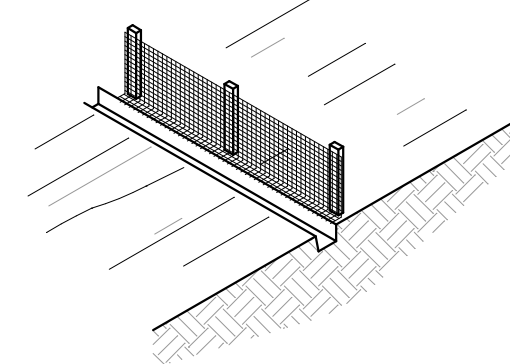
2) EXCAVATE A 6\"X6\" TRENCH UPSLOPE ALONG THE LINE STAKES.



3) STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4) BACKFILL AND COMPACT THE EXCAVATED SOIL



SEDIMENT FENCE DETAIL

SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

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.

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.

WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (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.

THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.

THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

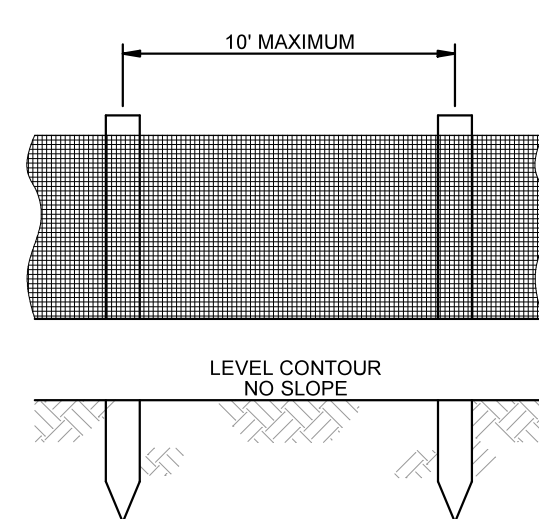
MAINTENANCE:

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: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

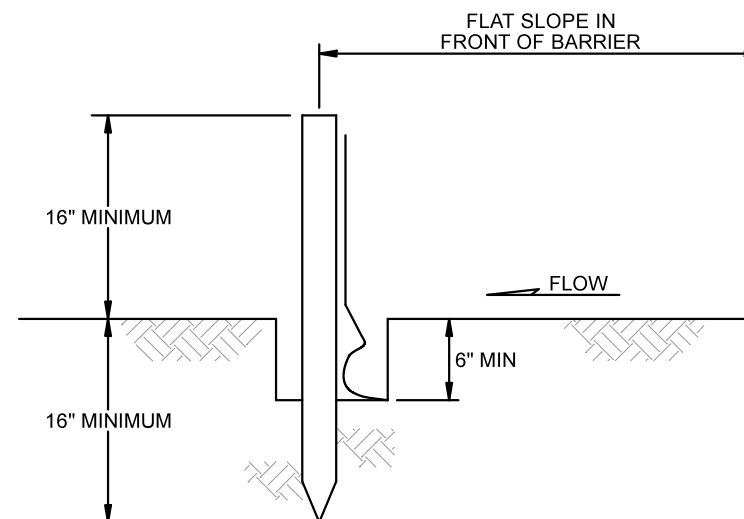
CRITERIA FOR SILT FENCE MATERIALS:

- FENCE POSTS: THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2-IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
- SILT FENCE FABRIC SHALL BE ODOT TYPE C GEOTEXTILE FABRIC OR AS DESCRIBED BY THE CHART BELOW:

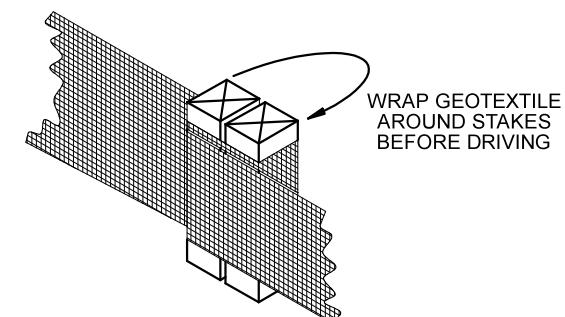
FABRIC PROPERTIES	
MINIMUM TENSILE STRENGTH.....	120 LBS.
MAXIMUM ELONGATION AT 60 LBS.....	50%
MINIMUM PUNCTURE STRENGTH.....	50 LBS.
MINIMUM TEAR STRENGTH.....	40 LBS.
MINIMUM BURST STRENGTH.....	200 PSI
APPARENT OPENING SIZE.....	≤ 0.84MM
MINIMUM PERMITTIVITY.....	1X10 ⁻² SEC ⁻¹
ULTRAVIOLET EXPOSURE STRENGTH RETENTION.....	70%



ELEVATION



SECTION

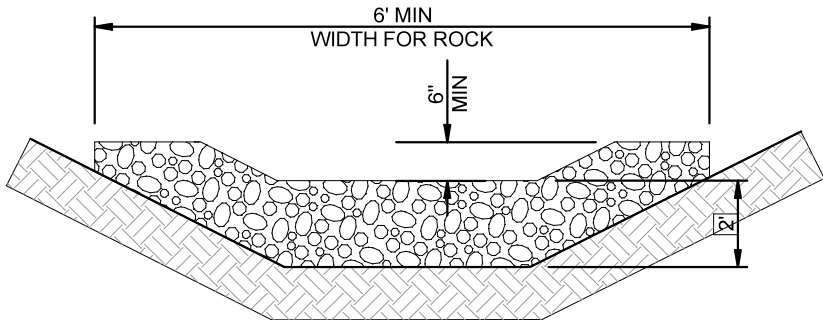


JOINING SECTIONS
OF SILT FENCE

SEDIMENT & EROSION CONTROL GENERAL NOTES

- IMPLEMENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION TO THE STANDARDS AND SPECIFICATIONS OF THE STATE OF OHIO AND THEY ARE TO REMAIN IN EFFECT UNTIL AREAS ARE PERMANENTLY STABILIZED.
- MAKE DAILY INSPECTIONS OF THE SITE TO INSURE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, IMMEDIATELY MAKE NECESSARY REPAIRS.
- IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF THE BARRIER DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER.
- EROSION AND ANY SEDIMENTATION FROM THE WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE DRAINAGE COURSE, WHETHER NATURAL OR MAN-MADE.
- ALL EARTH CHANGES SHALL BE CONSTRUCTED AND COMPLETED IN SUCH A MANNER TO LIMIT THE EXPOSED AREA OF ANY DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME.
- ALL CONSTRUCTION TRAFFIC SHALL ENTER AND LEAVE BY THE DESIGNATED ENTRANCE. THIS ENTRANCE SHALL BE CONSTRUCTED OF CRUSHED STONE TO HELP FREE TIRES OF SOIL WHEN LEAVING THE SITE. INSTRUCT ALL VEHICLES TO CLEAN SOIL, MISCELLANEOUS DEBRIS, OR OTHER MATERIAL SPILLED, DUMPED OR OTHERWISE DEPOSITED ON PUBLIC STREETS, HIGHWAYS, SIDEWALKS OR OTHER PUBLIC THOROUGHFARES DURING TRANSIT TO AND FROM THE SITE.
- INSTALL TEMPORARY EROSION AND SEDIMENTATION DEVICES AS SHOWN AND REQUIRED BY THESE PLANS. THESE DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL PERMANENT STABILIZATION OF SLOPES, DITCHES AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED.
- CATCH BASINS LOCATED IN THE STREET OR NEAR THE SITE WILL BE PROTECTED TO PREVENT SEDIMENTATION FROM ENTERING FACILITY. THE COVERS SHALL BE CHECKED PERIODICALLY AND CLEANED WHENEVER THEY FAIL TO FILTER RUNOFF.
- WHERE APPLICABLE, THE DETENTION BASIN SHALL BE USED AS A TEMPORARY SEDIMENTATION BASIN. ALL SURFACE RUNOFF FROM THE PROJECT AREAS SHALL BE DIRECTED BY TEMPORARY DRAINAGE SWALES TO THE BASINS. AT THE COMPLETION OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED THE BASINS SHALL BE CAREFULLY DRAINED WITHOUT DISTURBING THE SETTLED SILT, AND THEN GRADED AND SODDED TO CONFORM TO THE SITE GRADING PLAN.
- THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN. SEEDING HAS BEEN ASSUMED TO 5' OUTSIDE THE WORK LIMITS OR RIGHT-OF-WAY WHICHEVER IS GREATER. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE MULCHED.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO, OR IN CONJUNCTION WITH, THE START OF EXCAVATION AND ARE TO REMAIN IN EFFECT UNTIL AREAS ARE STABILIZED. FIELD ADJUSTMENTS WITH RESPECT TO LOCATION AND DIMENSIONS MAY BE MADE BY THE ENGINEER AS REQUIRED.
- FILTER BARRIERS CONSIST OF FILTER FABRIC AS SHOWN HEREON.
- OHIO EPA PERMITS FOR TEMPORARY EROSION CONTROL ON THE CONSTRUCTION SITE SHALL BE OBTAINED. THE DESIGN OF THE EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER.
- ADEQUATE DRAINAGE OF THE WORK AREA SHALL BE PROVIDED AT ALL TIMES, CONSISTENT WITH EROSION CONTROL PRACTICES.

ROCK CHECK DETAIL



MINIMUM DIMENSIONS: 2' HIGH x 6' WIDE x 3' LONG

ROCK CHECKS:
MATERIALS: FURNISH MATERIAL CONFORMING TO ITEM 601
ROCK CHANNEL PROTECTION TYPE C OR D WITHOUT FILTER.

CONSTRUCTION:
PLACE THE ROCK OUTSIDE THE TRAFFIC CLEAR ZONE IN THE DITCH.

SEEDING

DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 45 DAYS OR MORE SHALL BE SEEDED. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATION GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

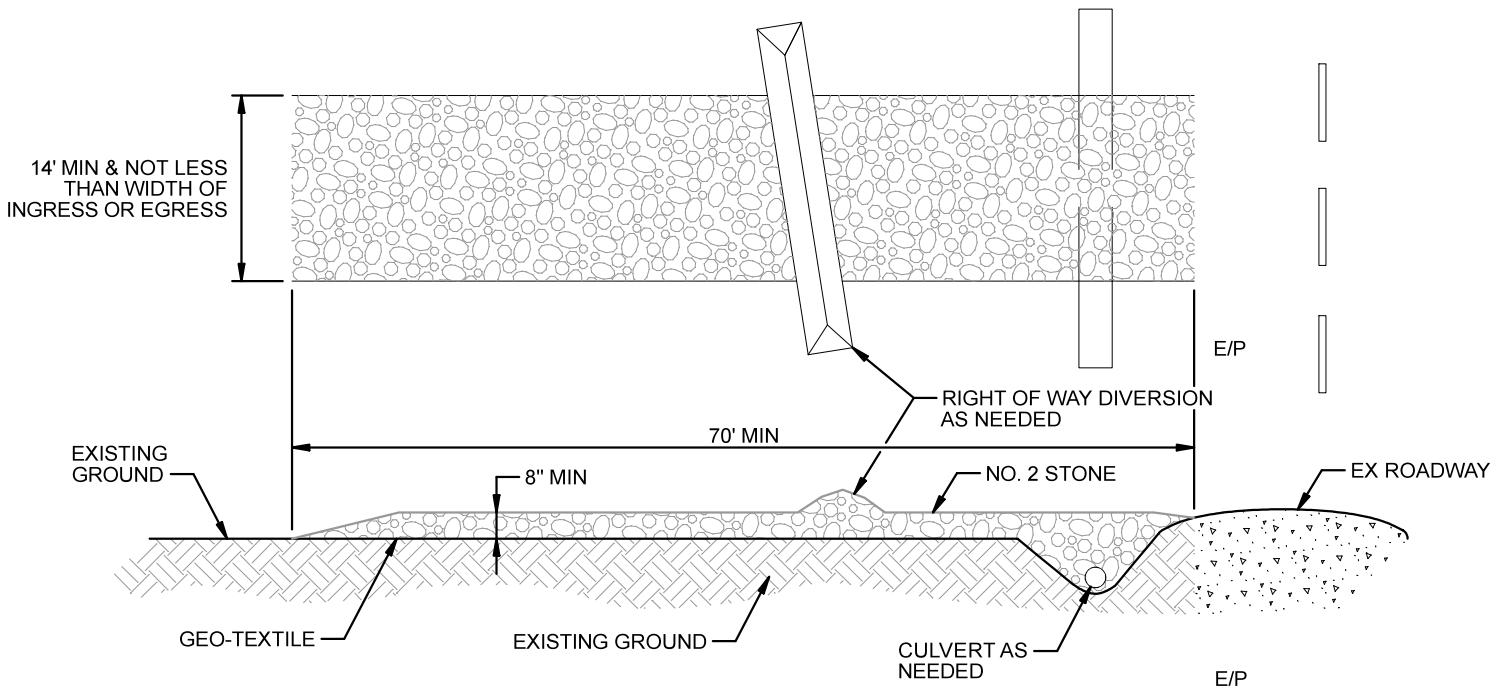
TEMPORARY SEEDING (TS) SHALL BE PROVIDED FOR ALL EXPOSED SURFACES AND SOIL STOCKPILES WHERE PERMANENT SEEDING OR ADDITIONAL WORK IS NOT SCHEDULED FOR A PERIOD OF FORTY-FIVE (45) DAYS. SEEDING SHALL BE PROVIDED WITHIN SEVEN (7) DAYS AFTER CONSTRUCTION OPERATIONS CEASE.

PERMANENT SEEDING (PS) SHALL BE PROVIDED FOR ALL EXPOSED SOIL SURFACES WITHIN SEVEN (7) DAYS AFTER THE FINISH GRADE IS REACHED.

TEMPORARY AND PERMANENT SEEDING, AS SPECIFIED IN ODOT ITEMS 207 AND 659, IS ACCEPTABLE.

AREAS WHERE TEMPORARY OR PERMANENT SEEDING HAS FAILED TO GERMINATE SHALL BE RESEEDD AND MULCHED AS NECESSARY TO ACHIEVE STABILIZATION.

SODDING (SO), CRITICAL AREA PLANTING (GC) AND TEMPORARY AND PERMANENT MULCHING (M) SHALL BE PROVIDED WITHIN SEVEN (7) DAYS AFTER FINISHED GRADE IS REACHED. AS SPECIFIED ODOT ITEM 660.



STONE SIZE- NO. 2 (2-1/2" TO 2") OR ITS RECYCLED CONCRETE EQUIVALENT.
LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 70 FEET.
THICKNESS - NOT LESS THAN SIX (6) INCHES.
WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS. (MINIMUM 14')

WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

CONSTRUCTION ENTRANCE DETAIL

Mark J. Eicher, P.E., P.S.
109 Graham Street
Zanesville, Ohio 43701
740-454-0155

PREPARED BY:

PROJECT NAME
BOGGS ROAD SANITARY SEWER IMPROVEMENTS

PROJECT LOCATION

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE

08/25/2025

REVISED

SHEET SIZE

11" x 17"

SHEET NAME

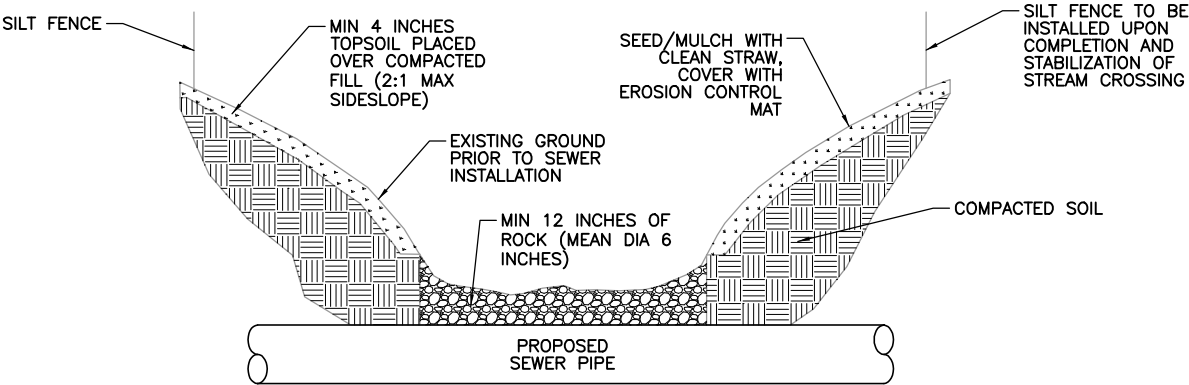
EROSION
CONTROL
DETAILS (2)

SHEET NUMBER

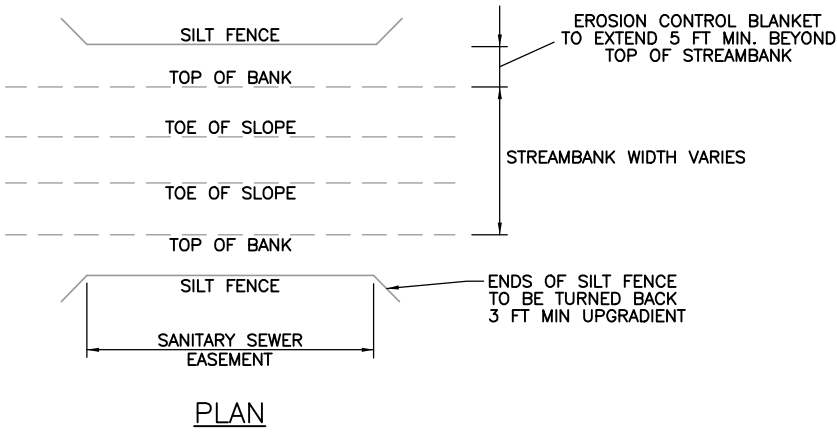
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INTERMITTENT & EPHEMERAL STREAMS
DETAIL



SECTION

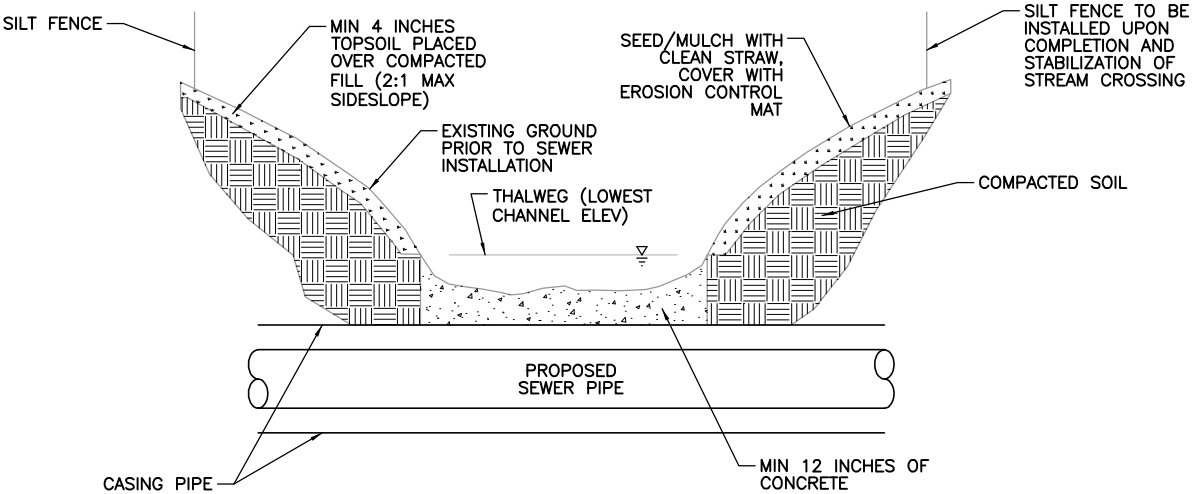


PLAN

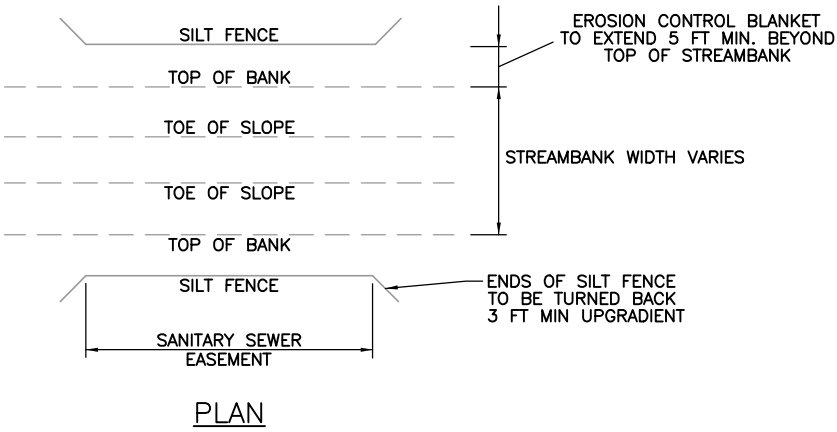
- FOR WETLAND CROSSINGS:
- CONSTRUCTION WILL OCCUR IN DRY OR LOW FLOW CONDITIONS
 - USE FLOW DIVERSIONS / PUMP AROUND SYSTEMS AS NECESSARY
 - CONSTRUCTION WILL INCLUDE AN OPEN CUT TRENCH
 - WETLAND TOPSOIL WILL BE COLLECTED AND STOCKPILED SEPARATELY FROM SUBSOIL
 - TRENCH WILL BE BACKFILLED WITH A MINIMUM OF 20" WETLAND SUBSOIL MATERIALS STOCKPILED FROM TRENCH
 - STOCKPILED TOPSOIL WILL THEN BE PLACED AND LOOSENEED FOR SEEDBED PREPARATION
 - SURFACE ELEVATION TO BE RESTORED TO SIMILAR PRE-CONSTRUCTION CONTOURS
 - ALL TEMPORARY IMPACTS TO BE RESTORED WITHIN 30 DAYS
 - MUSKINGUM COUNTY WILL BE RESPONSIBLE FOR RESTORING WETLAND SPECIES POST CONSTRUCTION. SEE GENERAL NOTES SHEETS FOR ADDITIONAL INFORMATION.

- FOR STREAM CROSSINGS
- CONSTRUCTION WILL OCCUR IN DRY OR LOW FLOW CONDITIONS
 - USE FLOW DIVERSIONS / PUMP AROUND SYSTEMS AS NECESSARY
 - CONSTRUCTION WILL INCLUDE AN OPEN CUT TRENCH
 - WETLAND TOPSOIL WILL BE COLLECTED AND STOCKPILED SEPARATELY FROM SUBSOIL
 - MINIMUM OF 12" STOCKPILED STREAM BED / TOPSOIL
 - 12" OF CONCRETE TO BE PLACED IN DISTURBED STREAM BED PER DETAIL ABOVE
 - SURFACE ELEVATION TO BE RESTORED TO SIMILAR PRE-CONSTRUCTION CONTOURS
 - STREAM BANK BMPs TO BE EROSION CONTROL MATTING
 - TEMPORARY LOW WATER CROSSINGS FOR EQUIPMENT ACCESS TO BE LOCATED ADJACENT TO OPEN TRENCH CUT

PERENNIAL STREAMS
DETAIL



SECTION



PLAN

- GENERAL WETLAND / STREAM BMPs
- CONSTRUCTION WILL OCCUR IN DRY OR LOW FLOW CONDITIONS
 - USE FLOW DIVERSIONS / PUMP AROUND SYSTEMS AS NECESSARY
 - EQUIPMENT TO OPERATE FROM OUTSIDE OF STREAMS
 - EROSION CONTROL STRUCTURES – SILT FENCING AND HEAVY ACCESS MATTING (TIMBER OR COMPOSITE)
 - STREAM OPEN TRENCH CROSSING AND FINAL STABILIZATION DETAILS