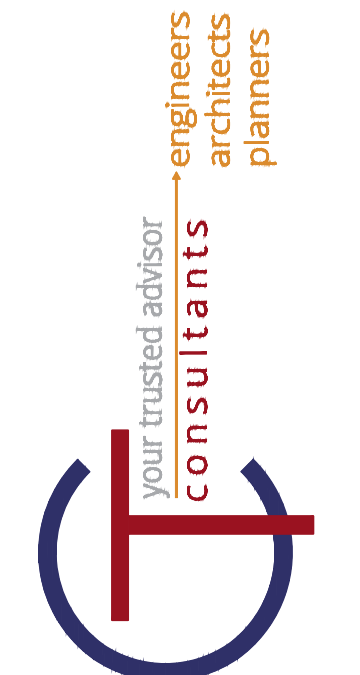


ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

BISHOP ROAD WATERMAIN JEFFERSON TOWNSHIP

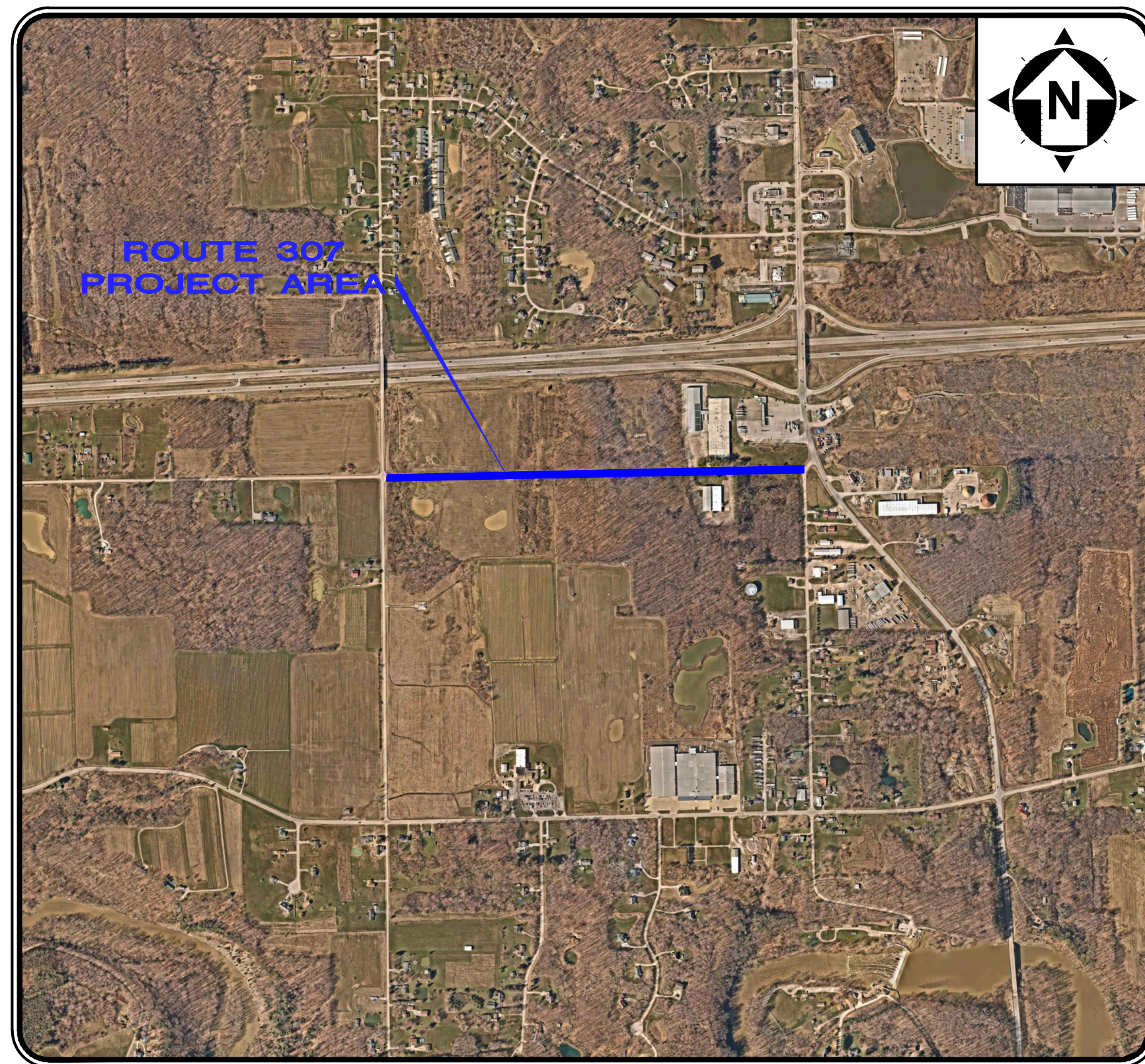


OHIO 811 DESIGN SERIAL NUMBER & UTILITY LIST:
XX - STATE ROUTE 534

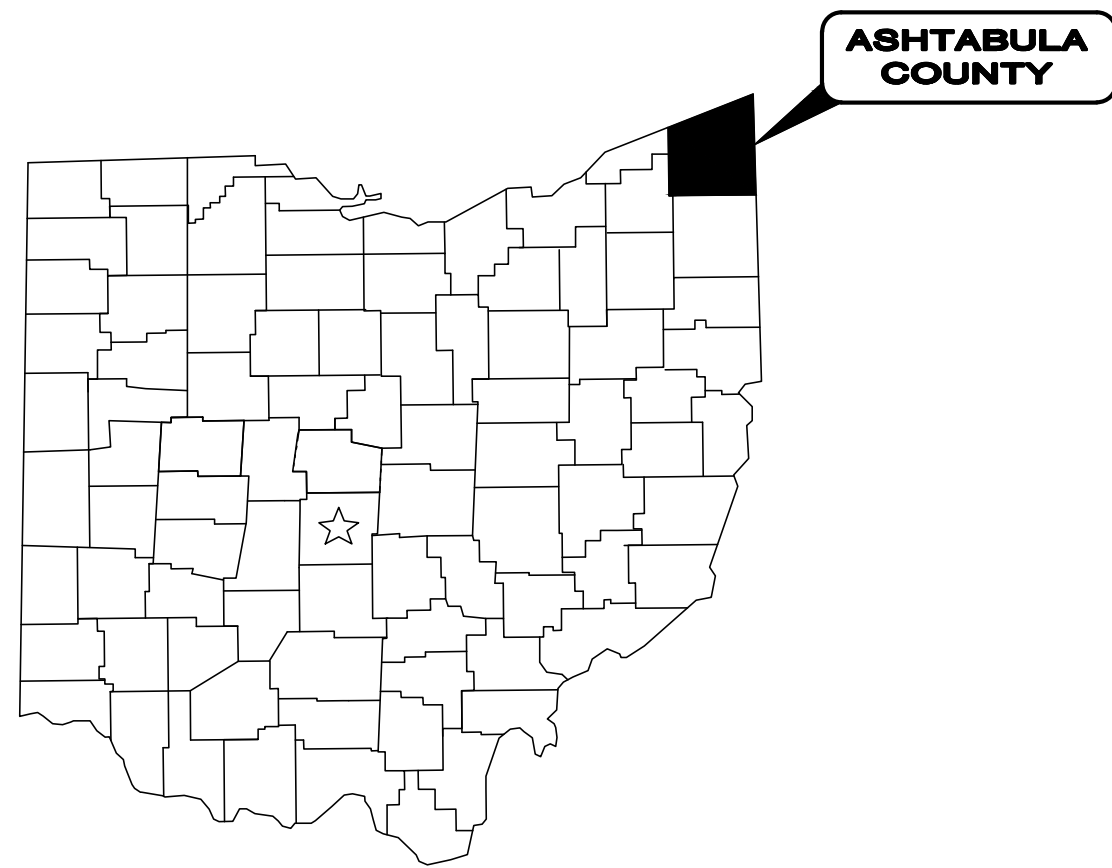
OHIO UTILITY PROTECTION SERVICE: 106 WEST RYEN, ROOM 427 YOUNGSTOWN, 44051 (800) 362-2764	ALL-TEL: 360 HIGHLAND ROAD MACEDONIA, OHIO 44067 (800) 782-6206	ENVIRONMENTAL SERVICES: 36 W. WALNUT STREET JEFFERSON, OHIO 44047 (440) 576-3722 PHONE (440) 576-3781 FAX
CLEVELAND ELECTRIC ILLUMINATING CO: 2210 SOUTH RIDGE ROAD ASHTABULA, OHIO 44004	SPRINT: PO BOX 3555 MANSFIELD, OHIO 44907 (800) 786-6272	TCI: 2904 STATE ROAD ASHTABULA, OHIO 44004 (440) 998-2148
THE EAST OHIO GAS COMPANY: 1010 WEST 30TH STREET ASHTABULA, OHIO 44004 (440) 992-5100		

APRIL 2024

- 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.
- THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



LOCATION MAP
NOT TO SCALE



ASHTABULA COUNTY APPROVALS:

	RATHRYN WILKINGTON	8-3-23
COUNTY COMMISSIONER		DATE
	CASEY R. KOZLOWSKI	8-3-23
COUNTY COMMISSIONER		DATE
	J.P. DUCRO IV	8-1-23
COUNTY COMMISSIONER		DATE
	DOUG STARKEY	8-1-23
DIRECTOR ACDES		DATE

ENGINEER/ARCHITECT:

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

(440) 951-8000 PHONE
(440) 951-7487 FAX



GEORGIA CONWAY

P.E. No. E-85401

7/31/23
DATE

NO	REVISION	DATE

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY, OHIO
GENERAL COVER SHEET

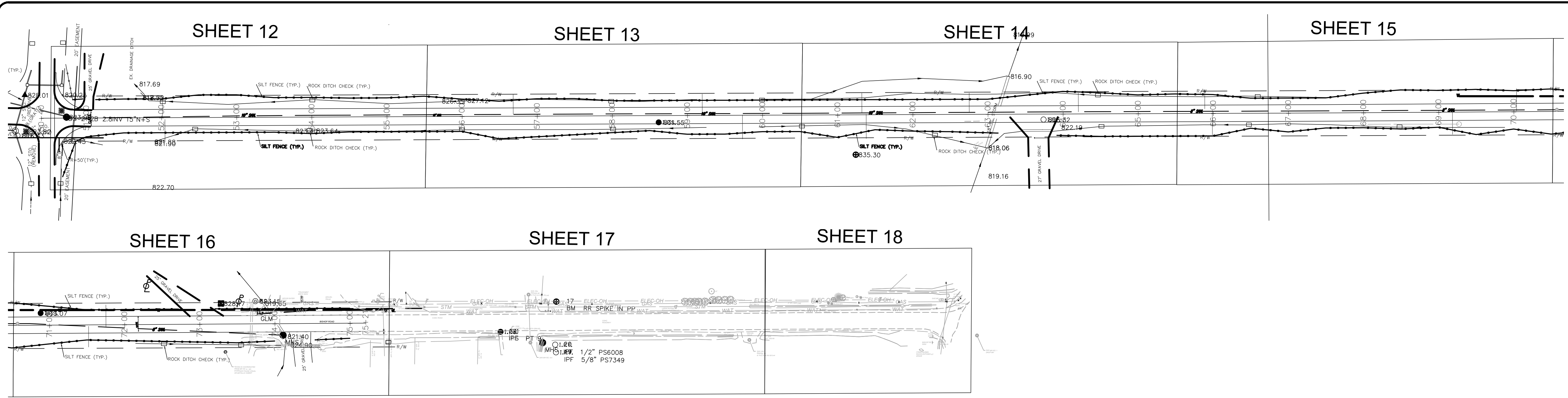
PROJECT NO:	231064
SHEET NAME:	G-01
SHEET OF:	1 OF 15



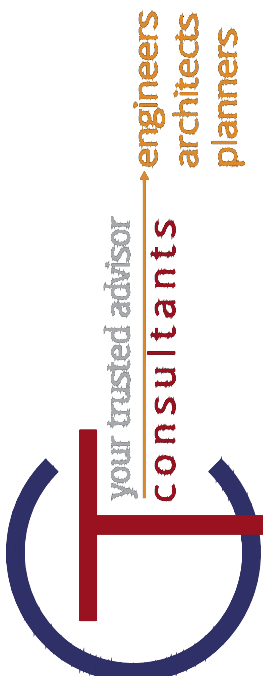
NOTE:
THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.



ENGINEER'S PROJECT No. 231064



Sheet List Table			
SHEET NUMBER	SHEET TITLE	SHEET NAME	DISCIPLINE
1	COVER SHEET	G-01	GENERAL
2	SHEET INDEX	G-02	GENERAL
3	SITE LEGEND	G-03	GENERAL
4	GENERAL NOTES 1	G-04	GENERAL
5	GENERAL NOTES 2	G-05	GENERAL
6	CONSTRUCTION DETAILS-01	G-06	GENERAL
7	CONSTRUCTION DETAILS-02	G-07	GENERAL
8	CONSTRUCTION DETAILS-03	G-08	GENERAL
9	CONSTRUCTION DETAILS-04	G-09	GENERAL
10	BISHOP ROAD PLAN AND PROFILE- 0+00 - 4+75	C-01	CIVIL
11	BISHOP ROAD PLAN AND PROFILE- 4+75 - 9+75	C-02	CIVIL
12	BISHOP ROAD PLAN AND PROFILE- 9+75 - 14+75	C-03	CIVIL
13	BISHOP ROAD PLAN AND PROFILE- 14+75 - 19+75	C-04	CIVIL
14	BISHOP ROAD PLAN AND PROFILE- 19+75 - 24+75	C-05	CIVIL
15	BISHOP ROAD PLAN AND PROFILE- 24+75 - 29+75	C-06	CIVIL
16	BISHOP ROAD PLAN AND PROFILE- 29+75 - END	C-07	CIVIL



YOUR TRUSTED ADVISOR
consultants - engineers architects planners

NO	REVISION	DATE

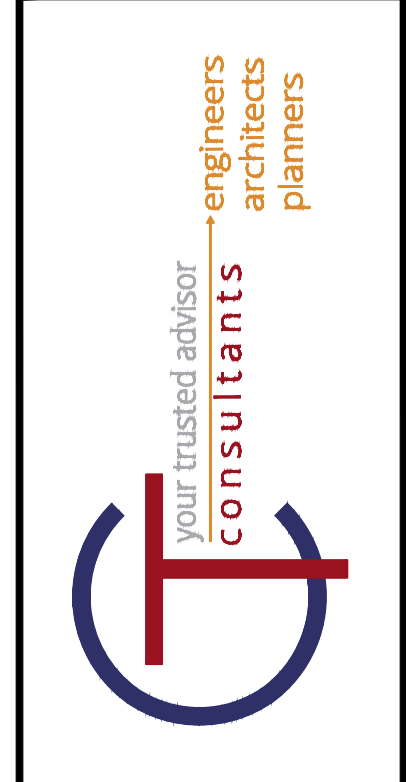
SCALE: AS SHOWN	DATE: 04/09/2024	DESIGNED BY: MLE	DRAWN BY: MLE	CHECKED BY: GBC
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ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY, JEFFERSON, OHIO

GENERAL SHEET INDEX

PROJECT NO: 231064	
SHEET NAME G-02	
SHEET 2	OF 15

EXISTING LINETYPES	EXISTING LINETYPES	EXISTING SYMBOLS	EXISTING SYMBOLS	EXISTING SYMBOLS	PROPOSED SYMBOLS
<i>FENCE, GENERAL</i>	<i>FENCE, BARBED WIRE</i>	<i>BUSH LINE</i>	<i>SANITARY MANHOLE</i>	<i>TELEPHONE PAY PHONE</i>	<i>SPIKE FOUND</i>
<i>FENCE, CHAIN LINK</i>	<i>FENCE, DECORATIVE</i>	<i>BUSH LINE</i>	<i>SANITARY CLEANOUT</i>	<i>FIBER OPTIC CABLE MANHOLE</i>	<i>HUB FOUND</i>
<i>FENCE, ELECTRIC</i>	<i>FENCE, ELECTRIC</i>	<i>TREE LINE</i>	<i>SANITARY LINE CAP</i>	<i>FIBER OPTIC CABLE PAINT MARKING</i>	<i>AXLE FOUND</i>
<i>FENCE, VINYL</i>	<i>FENCE, VINYL</i>	<i>MAJOR CONTOUR</i>	<i>SANITARY LINE PAINT MARKING</i>	<i>TRAFFIC CONTROL MANHOLE</i>	<i>WOOD POST FOUND</i>
<i>FENCE, WOOD</i>	<i>FENCE, WOOD</i>	<i>MINOR CONTOUR</i>	<i>SANITARY STRUCTURE NUMBER</i>	<i>TRAFFIC CONTROL BOX</i>	<i>CORNER STONE FOUND</i>
<i>FENCE, WOVEN WIRE</i>	<i>FENCE, WOVEN WIRE</i>	<i>WATER EDGE</i>	<i>SANITARY VENT PIPE</i>	<i>TRAFFIC CONTROL PAINT MARKING</i>	<i>AERIAL TARGET FOUND</i>
<i>CABLE RAIL</i>	<i>CABLE RAIL</i>	<i>COUNTY LINE</i>	<i>STORM MANHOLE (SOLID LID)</i>	<i>TRAFFIC PULL BOX</i>	<i>GPS CONTROL FOUND</i>
<i>GUARDRAIL</i>	<i>GUARDRAIL</i>	<i>CORPORATION LINE</i>	<i>STORM MANHOLE (OPEN GRATE)</i>	<i>TRAFFIC SIGNAL PEDESTAL</i>	<i>BENCHMARK FOUND</i>
<i>HANDRAIL</i>	<i>HANDRAIL</i>	<i>ANNEXATION AREA</i>	<i>CURB INLET</i>	<i>UNKNOWN, PULL BOX</i>	
<i>CABLE T.V., ABANDONED</i>	<i>CABLE T.V., ABANDONED</i>	<i>ANNEXATION AREA</i>	<i>CURB INLET (DOUBLE)</i>	<i>UNKNOWN, CLEANOUT</i>	
<i>CABLE T.V.</i>	<i>CABLE T.V.</i>	<i>SECT</i>	<i>CATCH BASIN</i>	<i>UNKNOWN, MANHOLE</i>	
<i>CABLE T.V., OH</i>	<i>CABLE T.V., OH</i>	<i>TOWNSHIP LINE</i>	<i>CATCH BASIN (ROUND LID)</i>	<i>UNKNOWN, VALVE</i>	
<i>CABLE T.V., UG</i>	<i>CABLE T.V., UG</i>	<i>FLOOD PLAIN LIMIT</i>	<i>CATCH BASIN (DOME)</i>	<i>MONITORING WELL</i>	
<i>CABLE T.V., SERVICE</i>	<i>CABLE T.V., SERVICE</i>	<i>WETLAND LIMIT</i>	<i>CATCH BASIN (SIDE INLET)</i>	<i>TEST WELL</i>	
<i>CABLE T.V., SERVICE OH</i>	<i>CABLE T.V., SERVICE OH</i>	<i>FARM LINE</i>	<i>DRAIN</i>	<i>WATER WELL</i>	
<i>CABLE T.V., SERVICE UG</i>	<i>CABLE T.V., SERVICE UG</i>	<i>BOUNDARY LINE</i>	<i>DOWNSPOUT</i>	<i>SOIL BORING</i>	
<i>COMMUNICATION, ABANDONED</i>	<i>COMMUNICATION, ABANDONED</i>	<i>PROPERTY LINE</i>	<i>STORM CLEANOUT</i>	<i>SWAMP</i>	
<i>COMMUNICATION</i>	<i>COMMUNICATION</i>	<i>LEASE LINE</i>	<i>STORM LINE CAP</i>	<i>POLE, ELECTRIC</i>	
<i>COMMUNICATION, OH</i>	<i>COMMUNICATION, OH</i>	<i>RIGHT-OF-WAY LINE</i>	<i>STORM ENDWALL</i>	<i>POLE, TELEPHONE</i>	
<i>COMMUNICATION, UG</i>	<i>COMMUNICATION, UG</i>	<i>RIGHT-OF-WAY C/L</i>	<i>STORM HEADWALL</i>	<i>POLE, LIGHT</i>	
<i>COMMUNICATION, SERVICE</i>	<i>COMMUNICATION, SERVICE</i>	<i>SURVEY STATIONING</i>	<i>STORM LINE PAINT MARKING</i>	<i>POLE, LIGHT, DECORATIVE</i>	
<i>COMMUNICATION, SERVICE OH</i>	<i>COMMUNICATION, SERVICE OH</i>		<i>STORM STRUCTURE NUMBER</i>	<i>POLE, LIGHT-OVERHEAD</i>	
<i>COMMUNICATION, SERVICE UG</i>	<i>COMMUNICATION, SERVICE UG</i>		<i>ROCK CHANNEL PROTECTION</i>	<i>POLE, CABLE TV</i>	
<i>ELECTRIC, ABANDONED</i>	<i>ELECTRIC, ABANDONED</i>		<i>SURFACE DRAINAGE FLOW</i>	<i>POLE, UTILITY</i>	
<i>ELECTRIC, DUCT BANK</i>	<i>ELECTRIC, DUCT BANK</i>		<i>STORM FLOOD ROUTING ARROW</i>	<i>POLE, GENERAL</i>	
<i>ELECTRIC</i>	<i>ELECTRIC</i>		<i>FIRE HYDRANT</i>	<i>POLE, TRAFFIC CONTROL</i>	
<i>ELECTRIC, OH</i>	<i>ELECTRIC, OH</i>		<i>WATER SIAMESE CONNECTION</i>	<i>POLE, GUY</i>	
<i>ELECTRIC, UG</i>	<i>ELECTRIC, UG</i>		<i>WATER VALVE</i>	<i>POLE, BRACE</i>	
<i>ELECTRIC, SERVICE</i>	<i>ELECTRIC, SERVICE</i>		<i>WATER VALVE BOX</i>	<i>POLE, ELECTRIC/TELEPHONE</i>	
<i>ELECTRIC, SERVICE OH</i>	<i>ELECTRIC, SERVICE OH</i>		<i>WATER METER</i>	<i>POLE, ELECTRIC W/LIGHT</i>	
<i>ELECTRIC, SERVICE UG</i>	<i>ELECTRIC, SERVICE UG</i>		<i>WATER METER PIT</i>	<i>POLE, ELECTRIC/TELEPHONE/CABLE TV</i>	
<i>FIBER OPTIC, ABANDONED</i>	<i>FIBER OPTIC, ABANDONED</i>		<i>WATER METER PIT</i>	<i>POLE, ELECTRIC/TELEPHONE/LIGHT</i>	
<i>FIBER OPTIC, DUCT BANK</i>	<i>FIBER OPTIC, DUCT BANK</i>		<i>WATER LINE REDUCER</i>	<i>POLE, ELECTRIC/TELEPHONE/CABLE TV</i>	
<i>FIBER OPTIC</i>	<i>FIBER OPTIC</i>		<i>WATER LINE CAP</i>	<i>POLE, ELEC./TELE./LIGHT/CABLE TV</i>	
<i>FIBER OPTIC, OH</i>	<i>FIBER OPTIC, OH</i>		<i>WATER LINE PLUG</i>	<i>POLE, TELEPHONE/LIGHT</i>	
<i>FIBER OPTIC, UG</i>	<i>FIBER OPTIC, UG</i>		<i>WATER LINE PAINT MARKING</i>	<i>POLE, TELEPHONE/CABLE TV</i>	
<i>FIBER OPTIC, SERVICE</i>	<i>FIBER OPTIC, SERVICE</i>		<i>POST INDICATOR VALVE</i>	<i>POLE, TELEPHONE/LIGHT/CABLE TV</i>	
<i>FIBER OPTIC, SERVICE OH</i>	<i>FIBER OPTIC, SERVICE OH</i>		<i>WATER MANHOLE</i>	<i>POLE, TELEPHONE/LIGHT</i>	
<i>FIBER OPTIC, SERVICE UG</i>	<i>FIBER OPTIC, SERVICE UG</i>		<i>WATER FLUSHING ASSEMBLY</i>	<i>POLE, TELEPHONE/CABLE TV</i>	
<i>GAS, ABANDONED</i>	<i>GAS, ABANDONED</i>		<i>WATER FITTURE</i>	<i>POLE, TELEPHONE/LIGHT/CABLE TV</i>	
<i>GAS</i>	<i>GAS</i>		<i>WATER FITTING (TEE)</i>	<i>POLE, CABLE TV W/LIGHT</i>	
<i>GAS, SERVICE</i>	<i>GAS, SERVICE</i>		<i>WATER FITTING (CROSS)</i>	<i>POLE, GUY WIRE</i>	
<i>SANITARY, ABANDONED</i>	<i>SANITARY, ABANDONED</i>		<i>WATER FITTING (45° WYE)</i>	<i>SIGN</i>	
<i>SANITARY FORCE MAIN</i>	<i>SANITARY FORCE MAIN</i>		<i>WATER FITTING (11.25°)</i>	<i>SIGN, DOUBLE SIDED</i>	
<i>SANITARY SEWER</i>	<i>SANITARY SEWER</i>		<i>WATER FITTING (22.50°)</i>	<i>SIGN, DUAL POST</i>	
<i>SANITARY LEACH LINE</i>	<i>SANITARY LEACH LINE</i>		<i>WATER FITTING (45°)</i>	<i>SIGN, RAILROAD</i>	
<i>SANITARY SEWER, DOUBLE</i>	<i>SANITARY SEWER, DOUBLE</i>		<i>WATER FITTING (90°)</i>	<i>POST</i>	
<i>SANITARY SEWER, SERVICE</i>	<i>SANITARY SEWER, SERVICE</i>		<i>IRRIGATION SPRINKLER HEAD</i>	<i>BOLLARD</i>	
<i>STORM SEWER</i>	<i>STORM SEWER</i>		<i>IRRIGATION CONTROL BOX</i>	<i>DELINEATOR POST</i>	
<i>STORM SEWER, DOUBLE</i>	<i>STORM SEWER, DOUBLE</i>		<i>IRRIGATION BOX</i>	<i>PARKING BUMPER BLOCK</i>	
<i>STORM, ROOF DRAIN</i>	<i>STORM, ROOF DRAIN</i>		<i>STEAM MANHOLE</i>	<i>HANDICAP PARKING SYMBOL</i>	
<i>STORM, UNDERDRAIN</i>	<i>STORM, UNDERDRAIN</i>		<i>STEAM VENT</i>	<i>HANDICAP PARKING SYMBOL</i>	
<i>TELEPHONE, ABANDONED</i>	<i>TELEPHONE, ABANDONED</i>		<i>COMBINED SEWER MANHOLE</i>	<i>HANDICAP DETECTABLE WARNING</i>	
<i>TELEPHONE</i>	<i>TELEPHONE</i>		<i>GAS LIGHT POST (YARD)</i>	<i>MAILBOX</i>	
<i>TELEPHONE, OH</i>	<i>TELEPHONE, OH</i>		<i>GAS MANHOLE</i>	<i>PAPERBOX</i>	
<i>TELEPHONE, UG</i>	<i>TELEPHONE, UG</i>		<i>GAS VALVE</i>	<i>PARKING METER</i>	
<i>TELEPHONE, SERVICE</i>	<i>TELEPHONE, SERVICE</i>		<i>GAS VALVE BOX</i>	<i>GRAVE HEADSTONE</i>	
<i>TELEPHONE, SERVICE OH</i>	<i>TELEPHONE, SERVICE OH</i>		<i>GAS</i>	<i>EX. BARBEQUE GRILL</i>	
<i>TELEPHONE, SERVICE UG</i>	<i>TELEPHONE, SERVICE UG</i>		<i>GAS METER</i>	<i>FUEL PUMP</i>	
<i>TRAFFIC, ABANDONED</i>	<i>TRAFFIC, ABANDONED</i>		<i>GAS REGULATOR</i>	<i>FLAG POLE</i>	
<i>TRAFFIC LINE</i>	<i>TRAFFIC LINE</i>		<i>GAS VENT PIPE</i>	<i>RAISED PAVEMENT MARKER</i>	
<i>TRAFFIC LINE, OH</i>	<i>TRAFFIC LINE, OH</i>		<i>GAS LINE PAINT MARKING</i>	<i>GUARDRAIL, CENTER POST</i>	
<i>TRAFFIC LINE, UG</i>	<i>TRAFFIC LINE, UG</i>		<i>GAS LINE FIXTURE</i>	<i>GUARDRAIL, TERMINAL POST</i>	
<i>TRAFFIC, LOOP WIRE</i>	<i>TRAFFIC, LOOP WIRE</i>		<i>ELECTRIC LIGHT POST (YARD)</i>	<i>GUARDRAIL, BOTTOM POST</i>	
<i>TRAFFIC, SPAN WIRE</i>	<i>TRAFFIC, SPAN WIRE</i>		<i>ELECTRIC MANHOLE</i>	<i>GUARDRAIL, TOP POST</i>	
<i>WATER LINE, ABANDONED</i>	<i>WATER LINE, ABANDONED</i>		<i>ELECTRIC PULL BOX</i>	<i>FENCE POST</i>	
<i>WATER LINE</i>	<i>WATER LINE</i>		<i>ELECTRIC CONTROL BOX</i>	<i>PICNIC TABLE</i>	
<i>WATER LINE, DOUBLE</i>	<i>WATER LINE, DOUBLE</i>		<i>ELECTRIC JUNCTION BOX</i>	<i>BENCH</i>	
<i>WATER LINE, SERVICE</i>	<i>WATER LINE, SERVICE</i>		<i>ELECTRIC VAULT BOX</i>	<i>DECIDUOUS TREE</i>	
			<i>ELECTRIC METER</i>	<i>EVERGREEN TREE</i>	
			<i>ELECTRIC PEDESTAL</i>	<i>STUMP</i>	
			<i>ELECTRIC RISER BOX</i>	<i>BUSH</i>	
			<i>ELECTRIC TRANSFORMER</i>	<i>IRON PIN FOUND</i>	
			<i>ELECTRIC HVAC UNIT</i>	<i>SOLID IRON PIN FOUND</i>	
			<i>ELECTRIC GROUND LIGHT</i>	<i>IRON PIPE FOUND</i>	
			<i>ELECTRIC LINE PAINT MARKING</i>	<i>DRILL HOLE FOUND</i>	
			<i>CABLE TV MANHOLE</i>	<i>CHISELED "X" FOUND</i>	
			<i>CABLE TV PEDESTAL</i>	<i>MONUMENT BOX FOUND</i>	
			<i>CABLE TV PAINT MARKING</i>	<i>MONUMENT CONCRETE FOUND</i>	
			<i>TELEPHONE MANHOLE</i>	<i>MONUMENT RIGHT-OF-WAY FOUND</i>	
			<i>TELEPHONE PULL BOX</i>	<i>PK NAIL FOUND</i>	
			<i>TELEPHONE PEDESTAL</i>	<i>MAG NAIL FOUND</i>	
			<i>TELEPHONE RISER BOX</i>		
			<i>TELEPHONE LINE PAINT MARKING</i>		



NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 04/09/2024	DESIGNED BY: MLB	DRAWN BY: MLB	CHECKED BY: GBC
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GENERAL SITE LEGEND

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY JEFFERSON, OHIO

PROJECT NO: **231064**

SHEET NAME: **G-03**

SHEET **3** OF **15**

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. THE CONTRACTOR SHALL NOTIFY THE COUNTY WATER DEPARTMENT 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.
3. A PRE-CONSTRUCTION VIDEO OF THE PROJECT AREA WILL BE REQUIRED AND SUBMITTED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS.
4. ACCESS TO ALL DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN UTILITY INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.
5. 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.
6. ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY SYMBOL.
7. 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.
8. MATERIALS FOR "AS-DIRECTED" ITEMS SHALL NOT BE ORDERED OR DELIVERED TO THE PROJECT SITE OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
9. ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR CHECKING.
10. 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.
11. THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPERBOX, 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.
12. 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.
13. 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.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT.
15. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE INSTALLING ANY PROPOSED CONDUIT. ANY ADJUSTMENTS NEEDED SHALL BE APPROVED BY THE ENGINEER.
16. 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

TEMPORARY PAVEMENT AND MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL REMOVE ALL PAVEMENTS AND ROAD SURFACES WITHIN THE LINES OF EXCAVATION IN ACCORDANCE WITH THE PLANS AND DETAILS. AFTER THE PAVEMENT HAS BEEN REMOVED AND THE PIPE HAS BEEN LAID, ALL APPURTENANT WORK CONSTRUCTED AND BACKFILL COMPLETED, THE CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN WHEREVER THE PLACEMENT OF ROAD, WHEREVER SURFACE HAS BEEN REMOVED OR DAMAGED, A TEMPORARY PAVEMENT IN THE PAVED PORTION OF STREETS AND DRIVEWAYS SO AS TO PROVIDE A SAFE AND PASSABLE ROADWAY UNTIL SUCH TIME AS THE FINAL PAVEMENT IS COMPLETED. ACCESS TO ALL DRIVES SHALL BE MAINTAINED AT ALL TIMES EXCEPT BRIEFLY DURING WORKING HOURS WHEN CONSTRUCTION ACTIVITIES PROHIBIT.

PROTECTION AGAINST VANDALISM

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, 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.

ROADWAY EXCAVATION AND PAVEMENT

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.

CURB AND DRIVE APRONS THAT NEED TO BE REPLACED SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EACH RESPECTIVE ITEM.

METER BOXES, VALVES BOXES, STRUCTURES ADJUSTED TO GRADE

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.

PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS

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

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

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

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 TCI 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

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

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.

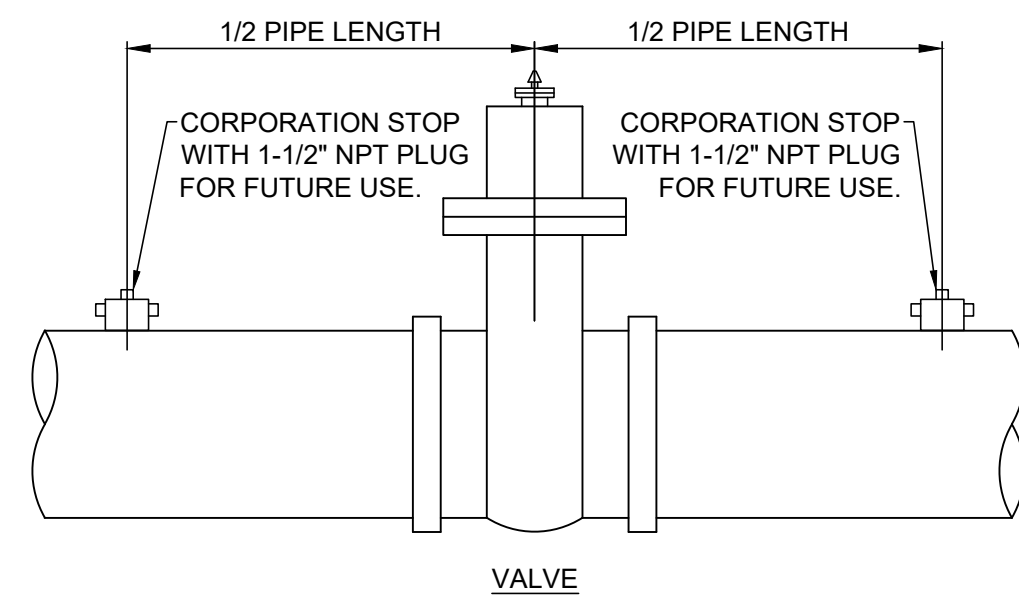


Table with 2 columns: NO, REVISION, DATE. Multiple empty rows for revisions.

Table with 2 columns: SCALE, AS SHOWN; DATE, 04/09/2024; DESIGNED BY, MLB; DRAWN BY, MLB; CHECKED BY, GBC.

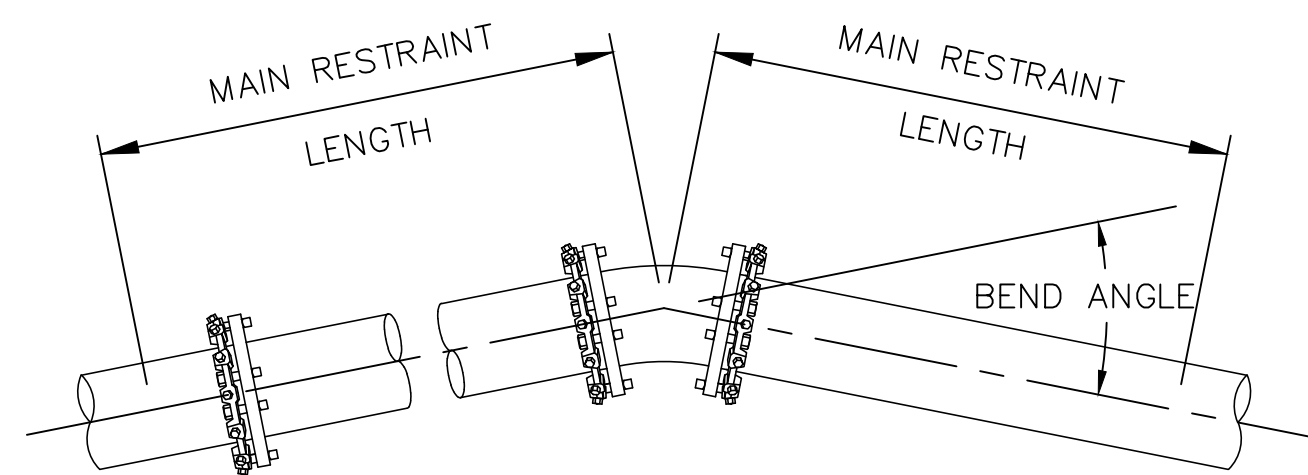
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, BISHOP ROAD WATERMAIN, ASHTABULA COUNTY, JEFFERSON, OHIO. GENERAL NOTES 1

Table with 2 columns: PROJECT NO., SHEET NAME, SHEET, OF. Values: 231064, G-04, 4, 15.

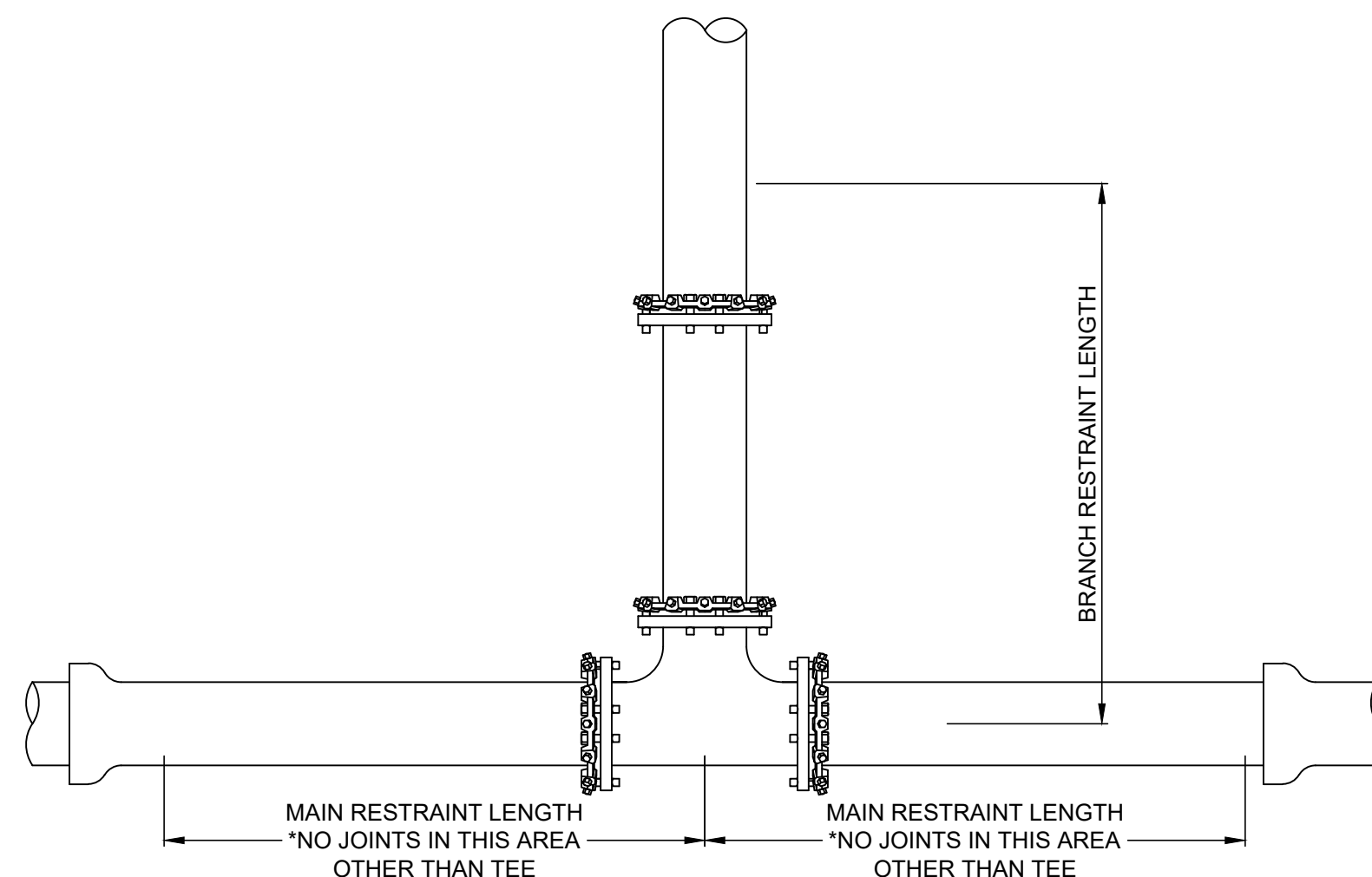


- NOTES:**
1. CORPORATION STOPS TO BE PLUGGED AFTER STERILIZATION & TESTING.
 2. 1-1/2" CORPORATION STOPS ON ALL LINES 16"Ø & GREATER.
 3. 1"Ø CORPORATION STOPS ON ALL LINES 12"Ø & LESS.

STERILIZATION & TESTING CONNECTIONS AT VALVES NOT TO SCALE



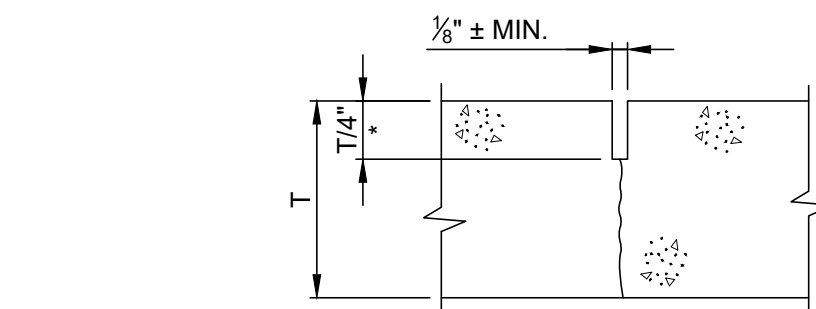
TYPICAL HORIZONTAL BEND RESTRAINT NOT TO SCALE



TYPICAL HORIZONTAL TEE RESTRAINT NOT TO SCALE

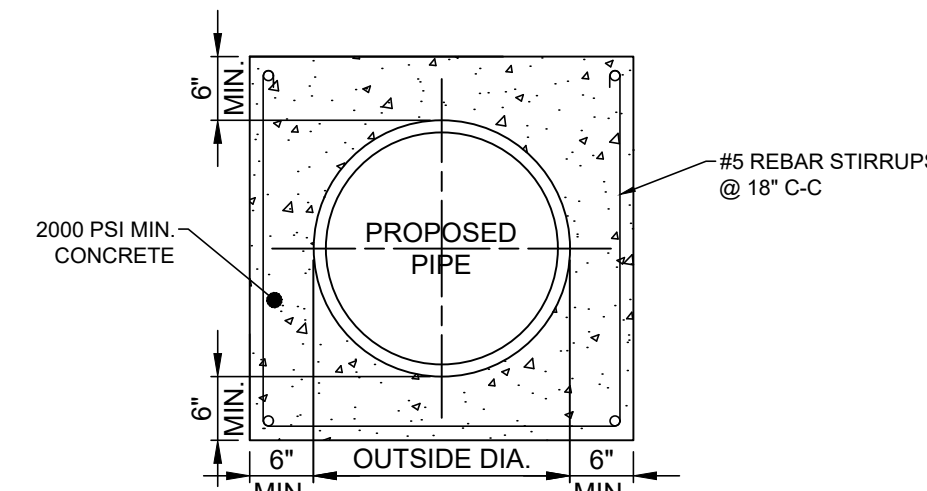
THRUST RESTRAIN TABLE FOR STANDARD FITTINGS			
FITTING	SIZE	MINIMUM MAIN RESTRAINT LENGTH	MINIMUM MAIN RESTRAINT LENGTH*
HORIZONTAL FITTINGS			
45° BEND	12"	16'	---
TEE**	12" X 6"	---	1'
TEE**	12" X 14"	---	1'

*ALL JOINTS WITHIN THE CALCULATED LENGTH MUST BE RESTRAINED.
 **A MINIMUM ATTACHED LENGTH OF PIPE OF 20FT TO EXTEND IN EACH DIRECTION ALONG THE RUN OF THE TEE WAS ASSUMED TO CALCULATE THE RESTRAINED LENGTH ALONG THE BRANCH. THE LENGTH OF PIPE ALONG THE RUN MUST BE PF SOLID PIPE WITHOUT JOINTS, FITTINGS, ETC.

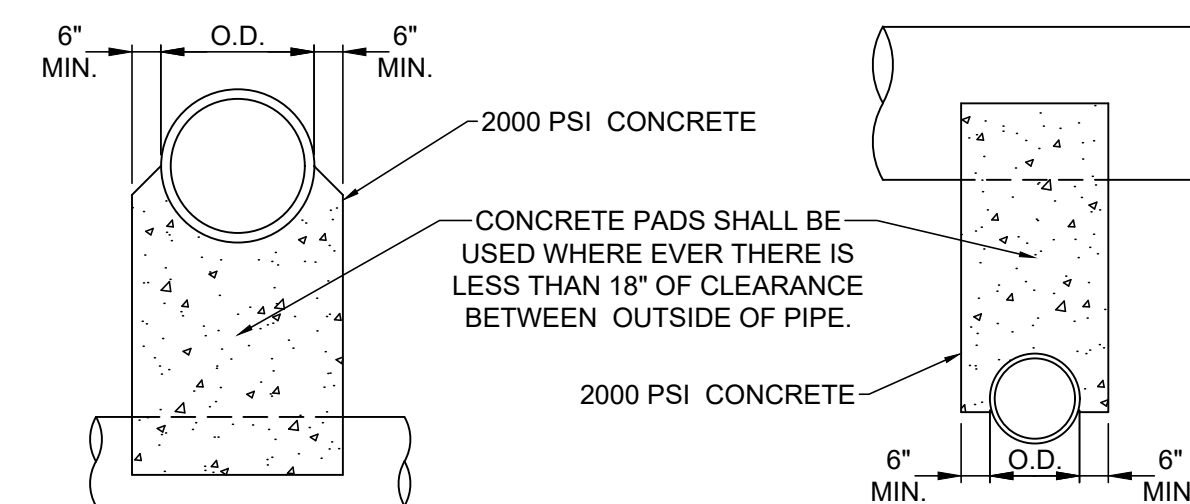


- NOTES:**
1. CONTROL JOINTS ARE THAT ARE TOOL CUT SHALL BE FILLED WITH JOINT SEALANT.
 2. CONTROL JOINT SPACING SHALL EQUAL NEW SIDEWALK WIDTH, ADD ADDITIONAL DIAGONAL JOINTS AS NECESSARY TO CONTROL CRACKING AT ANGLES, BUILDS OR STRUCTURES.

CONTROL JOINT TYPE "C.J." NOT TO SCALE

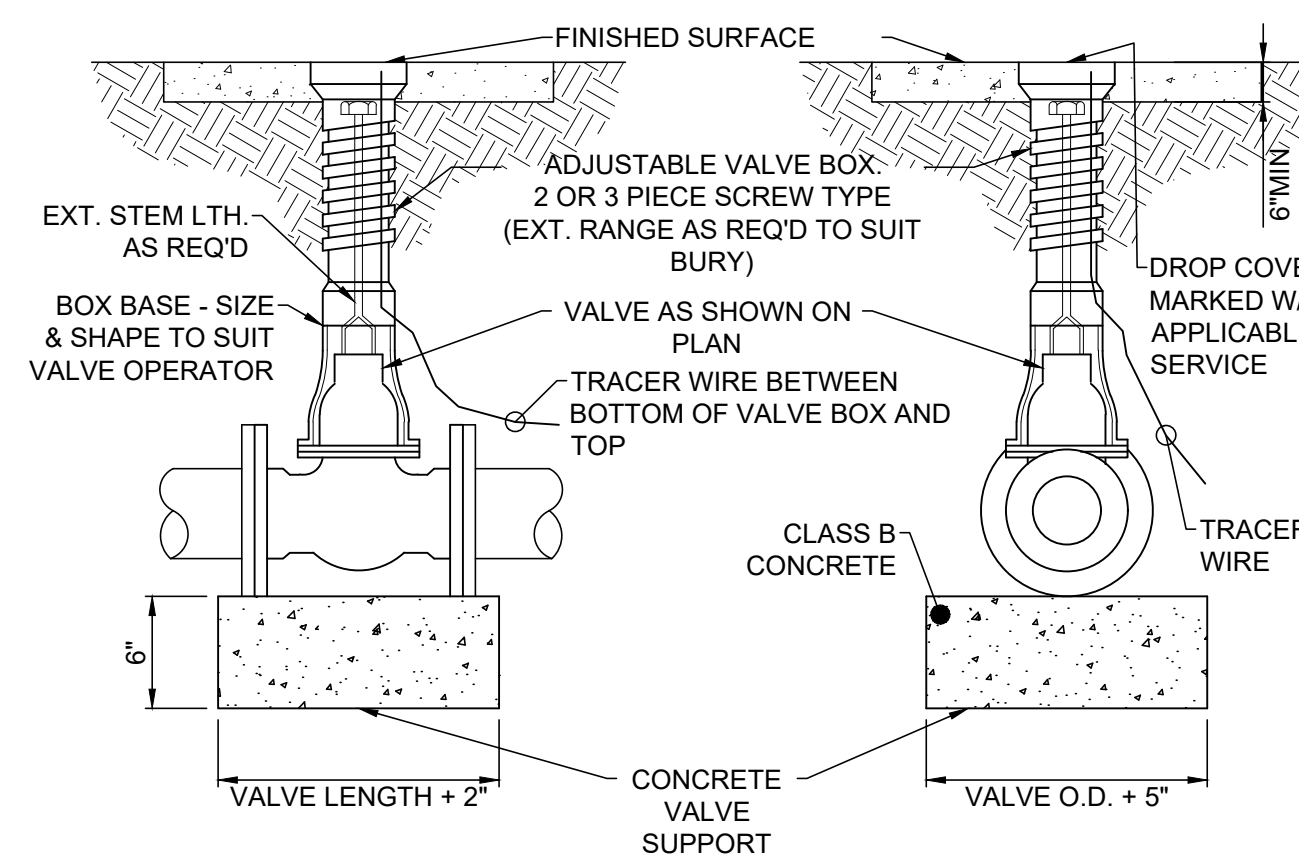


TYPICAL PIPE ENCASEMENT NOT TO SCALE

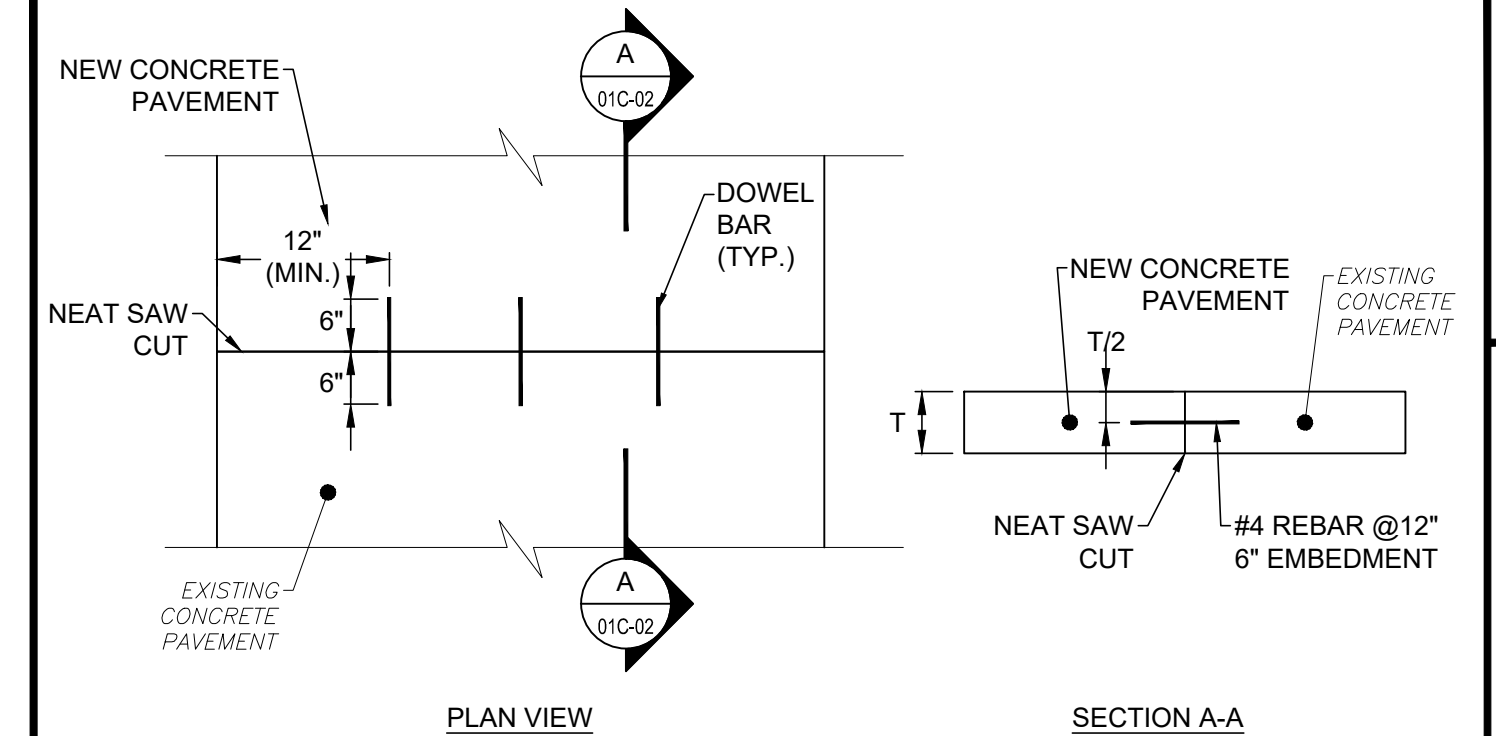


- NOTE:**
- UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHERE TWO PIPES (SEWER & WATER) CROSS EACH OTHER, A CONCRETE PAD AND CRADLE SEPARATOR SHALL BE PLACED BETWEEN THEM AS INDICATED ABOVE. WHERE PERMISSION IS GRANTED TO OMIT THE CONCRETE PADS, GRANULAR BACKFILL SHALL BE TAMPED IN 6" LAYERS AROUND BOTH 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.

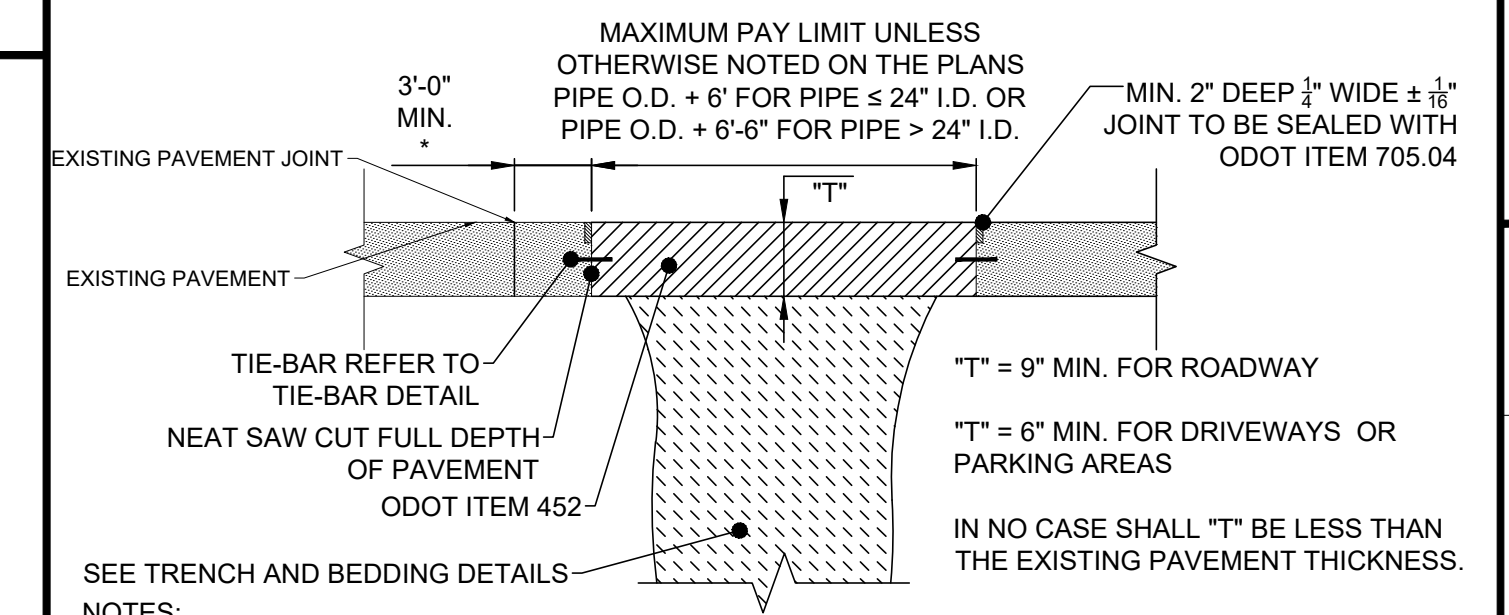
PIPE CROSSING DETAIL NOT TO SCALE



TYPICAL VALVE AND VALVE BOX SETTING NOT TO SCALE

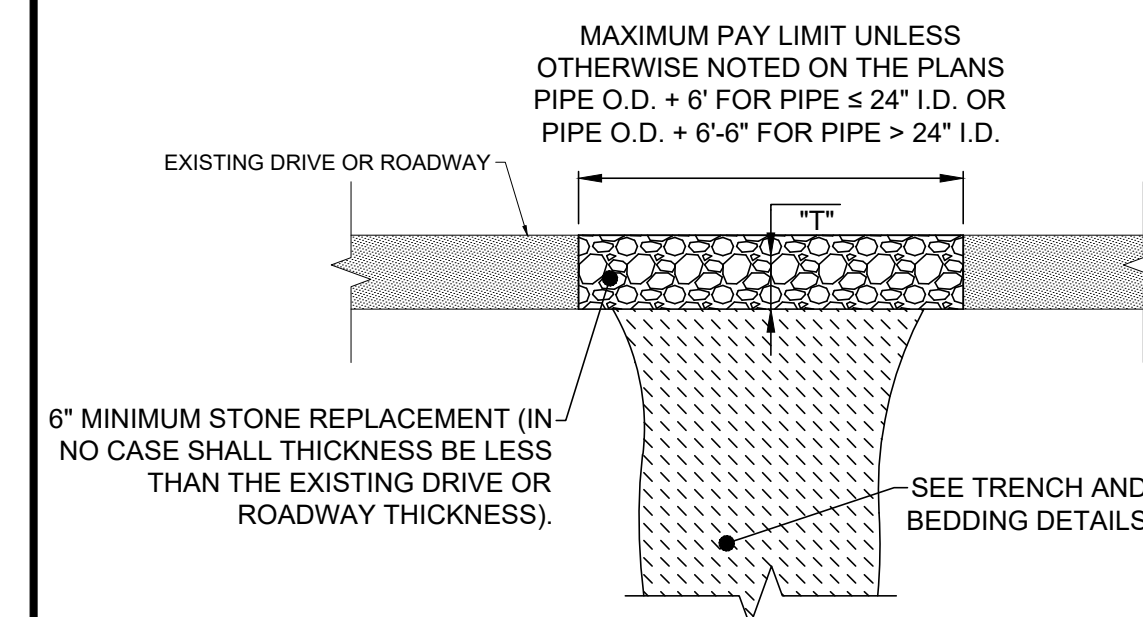


TIE BAR DETAIL NOT TO SCALE



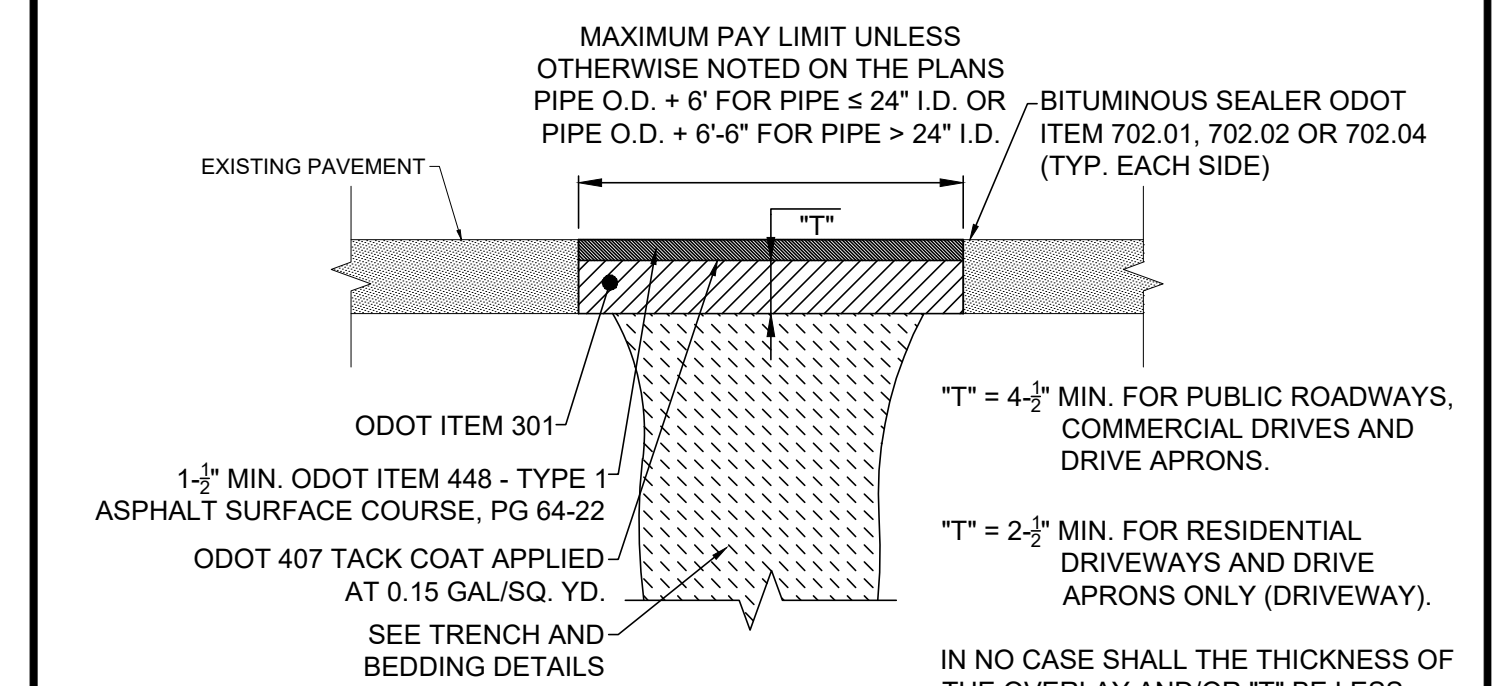
1. EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.
2. REPLACEMENT SHALL BE REINFORCED AS PER O.D.O.T. ITEM 709.10 OR 709.12 IF EXISTING PAVEMENT IS REINFORCED.
3. 5/8"Ø HOOKBOLT @ 30" O.C. MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

TYPE A PAVEMENT REPLACEMENT NOT TO SCALE



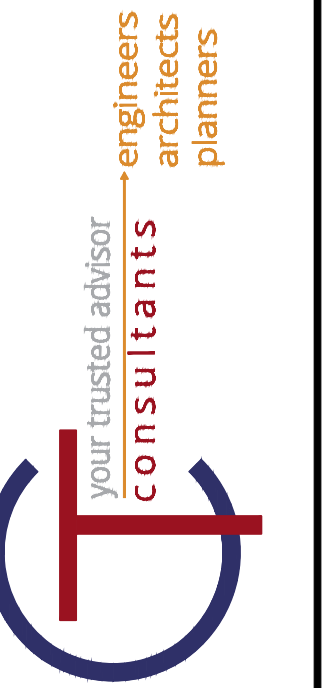
- NOTE:**
1. REPLACEMENT MATERIAL SHALL BE THE SAME TYPE AND SIZE AS EXISTING.

TYPE F PAVEMENT REPLACEMENT NOT TO SCALE



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

TYPE C PAVEMENT REPLACEMENT NOT TO SCALE

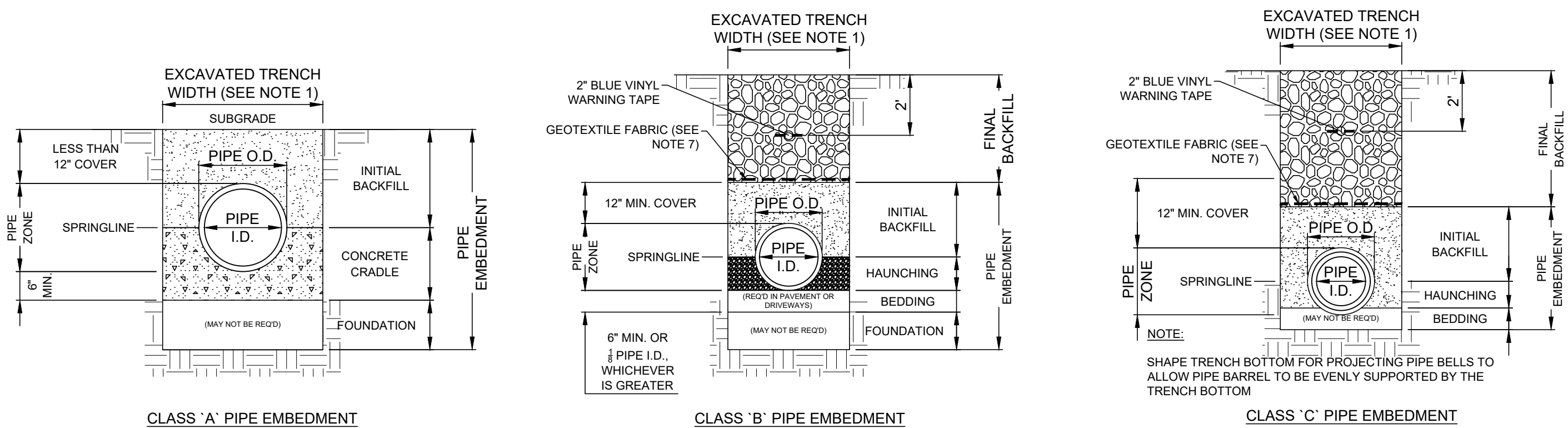


NO	DATE	REVISION

SCALE: AS SHOWN
 DATE: 04/09/2024
 DESIGNED BY: M.L.B.
 DRAWN BY: M.L.B.
 CHECKED BY: G.B.C.

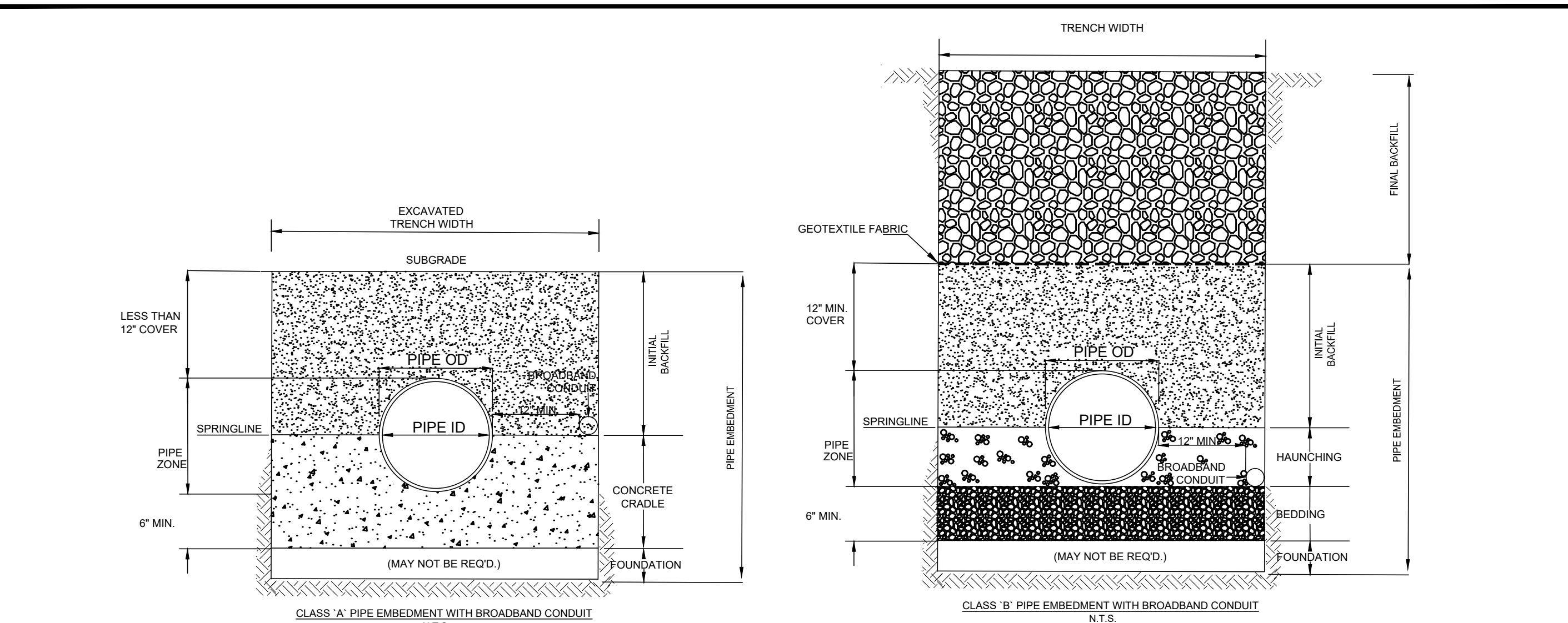
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
 BISHOP ROAD WATERMAIN
 ASHTABULA COUNTY, OHIO
GENERAL CONSTRUCTION DETAILS-01

PROJECT NO: 231064	
SHEET NAME G-06	
SHEET 6	OF 15



- NOTES:**
- MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
 - FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
 - PIPE EMBEDMENT:
 - CLASS A:** CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
 - CLASS B:** CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
 - CLASS C:** CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
 - FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.
 - SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 02300CT - EARTHWORK.
 - GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
 - DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 24" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.

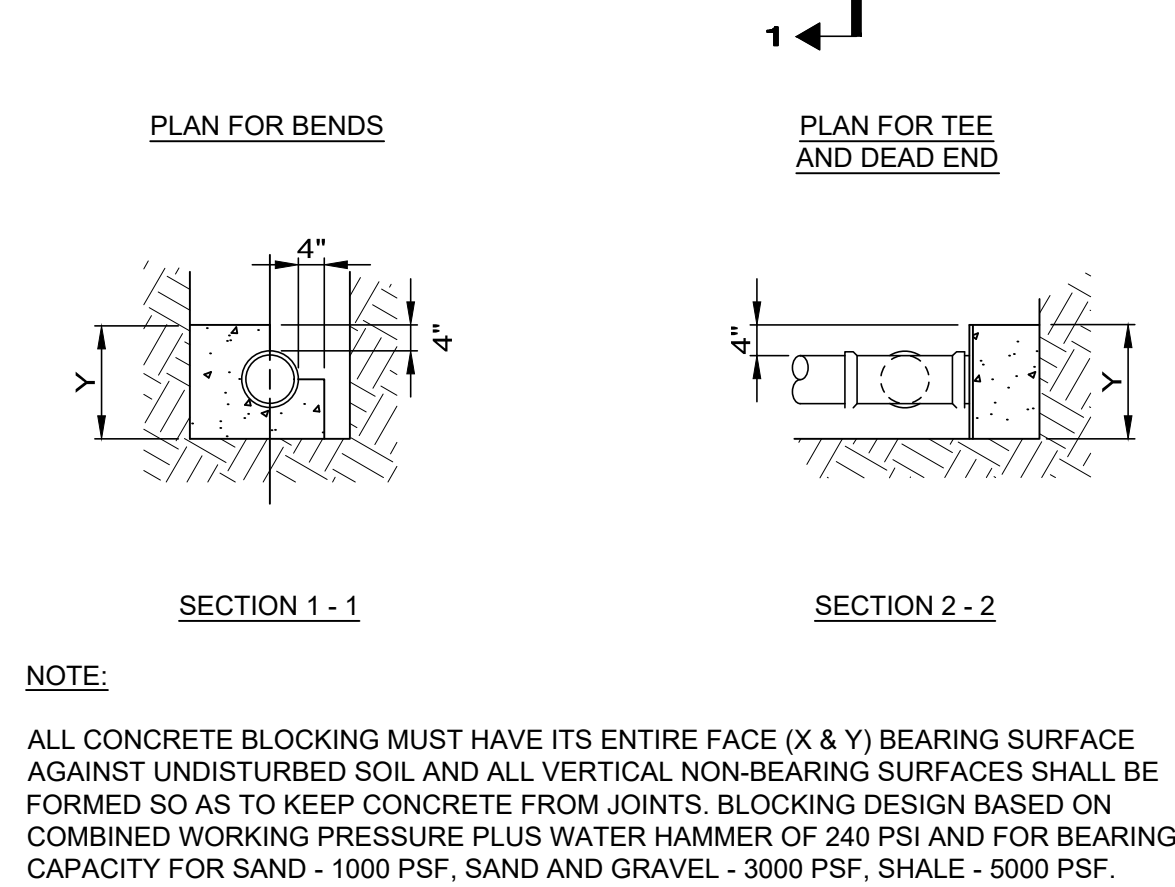
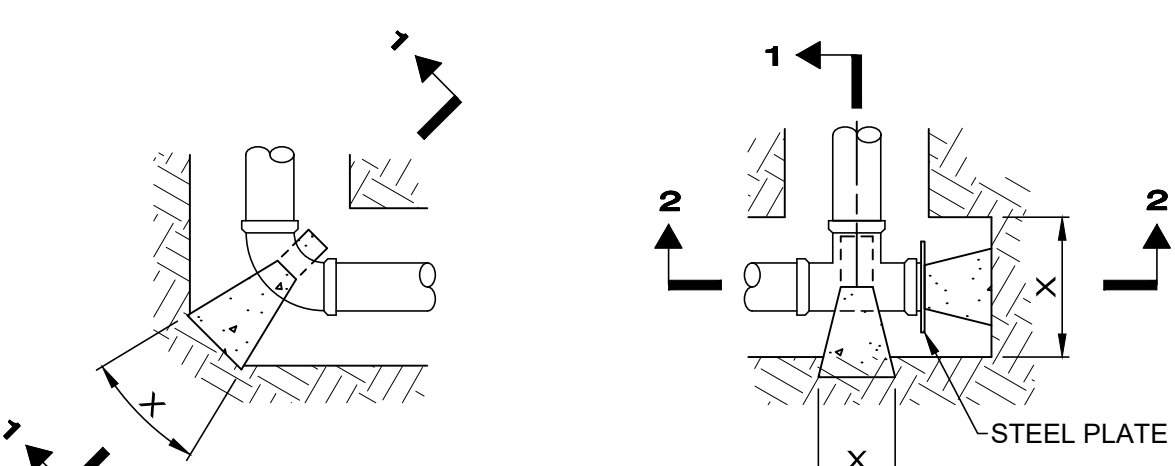
TRENCHING, EMBEDMENT, AND BACKFILL DETAIL
NOT TO SCALE



- CONDUIT SPECIFICATIONS:**
- MATERIAL: STANDARD SMOOTHWALL HDPE.
 - MANUFACTURER: DURALINE OR APPROVED EQUIVALENT.
 - DIAMETER: 2"
 - INSTALLATION: THE CONDUIT SHALL BE OFFSET FROM THE WATERLINE AS SHOWN ON THE DETAILS, ON OPPOSITE SIDE OF THE ROAD, TO REDUCE THE RISK ON CONDUIT BEING DAMAGED BY A WATER MAIN BREAK. A PULL TAPE SHALL BE INSTALLED IN THE CONDUIT TO FACILITATE FUTURE CABLE INSTALLATION. AFTER CONDUIT HAS BEEN INSTALLED, THE CONTRACTOR SHALL ENSURE THE PULL TAPE CAN MOVE FREELY INDICATING NO OBSTRUCTIONS IN THE CONDUIT.
 - IDENTIFICATION: INCLUDE BURIED WARNING TAPE ABOVE THE CONDUIT IN ACCORDANCE WITH SPECIFICATION 310000.
- HANDHOLE / PULL CHAMBER SPECIFICATIONS:**
- HANDHOLES ARE UNDERGROUND ENCLOSURES FOR PULLING OF CABLES, INSPECTIONS, AND REPAIRS.
 - CONDUIT SHALL ENTER VAULTS FROM THE SIDEWALL THROUGH OPENINGS CREATED PER MANUFACTURER INSTRUCTIONS.
 - CONDUIT SHALL PROTRUDE BEYOND EXTERIOR WALL OF THE VAULT BETWEEN 1 AND 3 INCHES.
 - MAKE AND MANUFACTURER: HUBBEL 24" X 36" X 24" POLYMER CONCRETE BOX OR APPROVED EQUIVALENT.
 - PULL CHAMBERS SHALL BE PLACED AT ROAD INTERSECTIONS AND INTERVALS NO EXCEEDING 600FT.

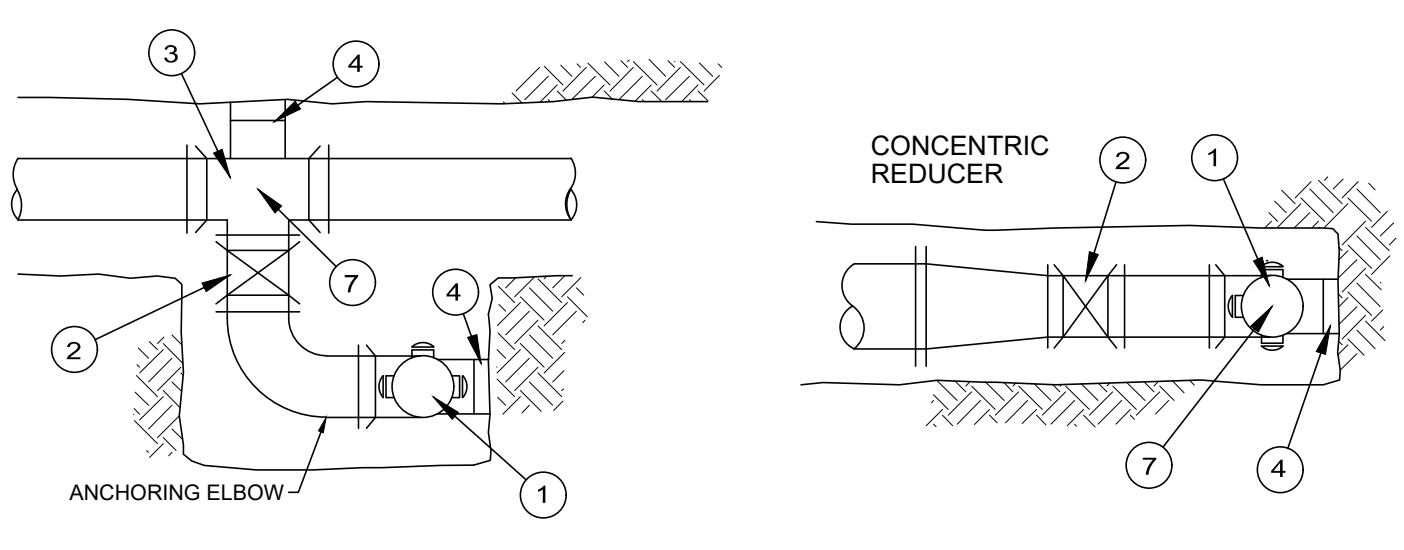
BROADBAND CONDUIT DETAIL
NOT TO SCALE

PIPE SIZE	BEARING FACE (X Y) IN SQ. FT. CONCRETE VOLUME IN CU. YD.					
	22-1/2" BEND SOIL BEARING CAPACITY			45" BEND SOIL BEARING CAPACITY		
	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.
4	1.40	0.46	0.26	2.70	0.90	0.54
6	0.14	0.09	0.06	0.12	0.06	0.06
8	2.80	0.93	0.56	5.50	1.83	1.10
10	1.15	0.10	0.07	0.15	0.10	0.07
12	4.80	1.60	0.96	9.60	3.20	1.92
14	0.20	0.13	0.09	0.23	0.15	0.09
16	7.90	2.63	1.96	15.70	5.23	3.14
18	0.53	0.34	0.22	0.34	0.20	0.13
20	0.62	0.40	0.26	0.75	0.49	0.32
22	15.30	5.10	3.06	30.20	10.06	6.04
24	0.74	0.48	0.31	0.98	0.64	0.42
26	19.80	6.60	3.96	39.10	13.03	7.82
28	1.17	0.76	0.49	1.21	0.79	0.51

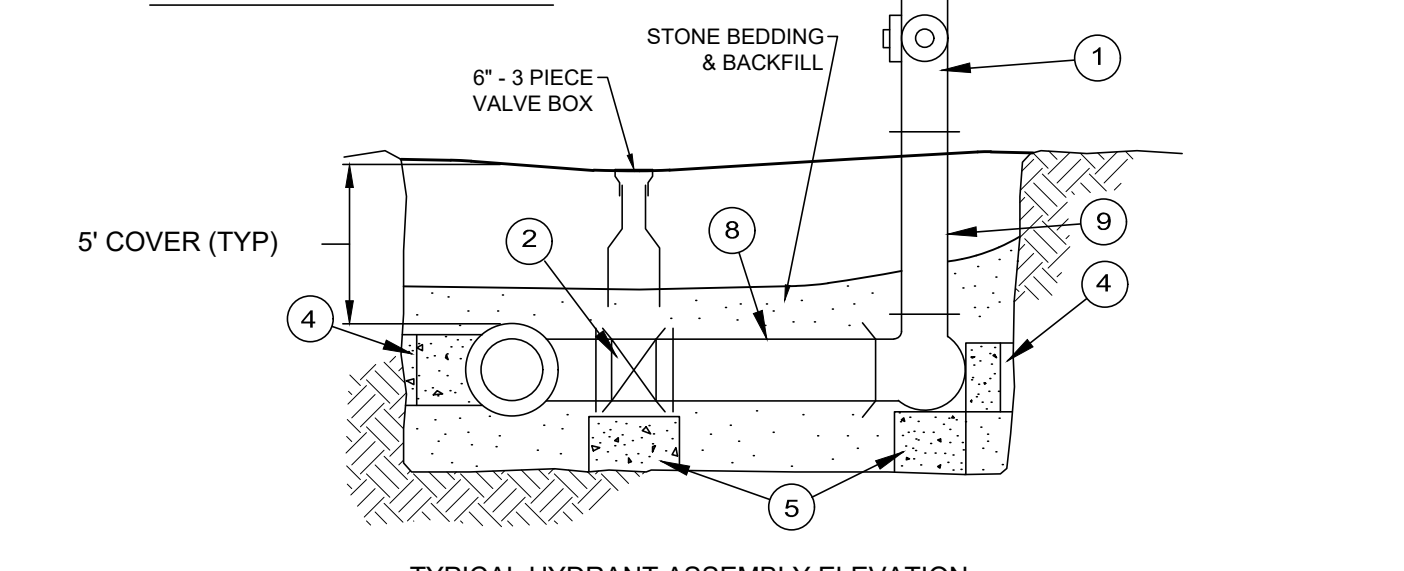


NOTE:
ALL CONCRETE BLOCKING MUST HAVE ITS ENTIRE FACE (X & Y) BEARING SURFACE AGAINST UNDISTURBED SOIL AND ALL VERTICAL NON-BEARING SURFACES SHALL BE FORMED SO AS TO KEEP CONCRETE FROM JOINTS. BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE PLUS WATER HAMMER OF 240 PSI AND FOR BEARING CAPACITY FOR SAND - 1000 PSF, SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.

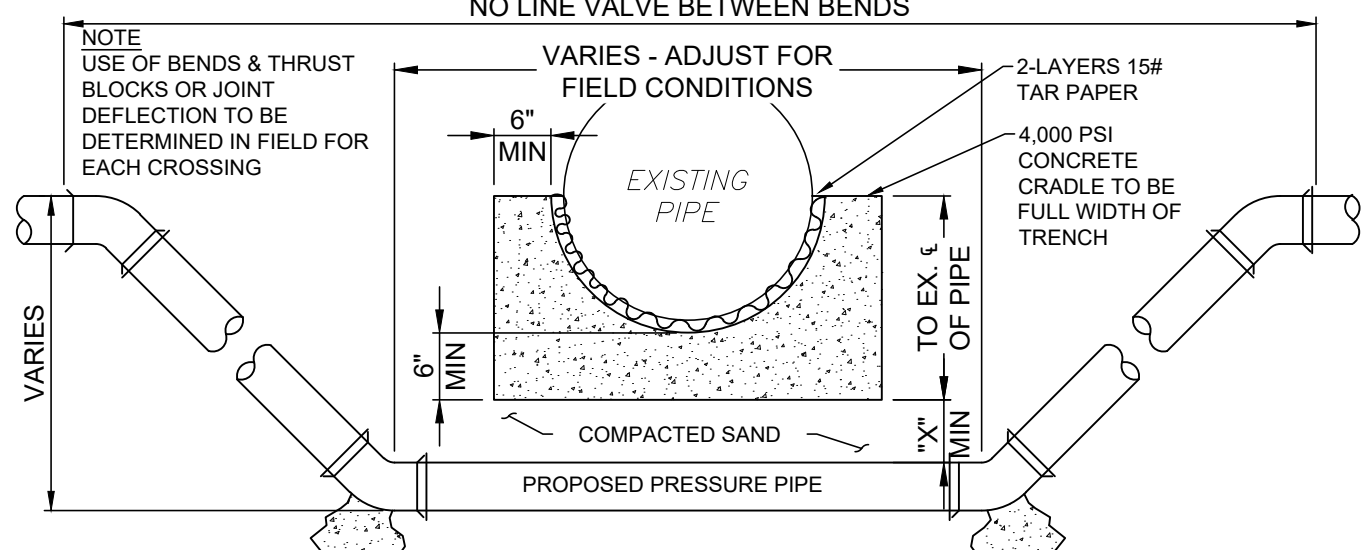
THRUST BLOCKING DETAIL
NOT TO SCALE



- TYPE "A" HYDRANT ASSEMBLY**
- TYPE "C" HYDRANT ASSEMBLY**
- HYDRANT, PER SPECIFICATIONS
 - 6" GATE VALVE
 - ANCHORING TEE
 - CONCRETE BLOCKING WITH OAK WEDGES AGAINST UNDISTURBED EARTH
 - CONCRETE SUPPORT BLOCKING
 - RETAINER GLANDS
 - PLAN STATION & OFFSET
 - ANCHORING SPOOL
 - RISER



TYPICAL HYDRANT DETAIL
NOT TO SCALE



- CONCRETE CRADLE CONDITIONS**
- IF SANITARY OR STORM SEWER PIPE JOINT IS WITHIN PROPOSED IMPROVEMENT TRENCH LIMIT
 - IF CROSSING A WATERLINE AT ANY POINT
 - IF CROSSING SPACE IS LESS THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS AFOREMENTIONED "X" DIMENSION THEN OMIT SAND FILL AND USE CONCRETE
- "X" DIMENSION REQUIREMENTS**
- 6" FOR WATERLINE CROSSING (ALSO FOR GAS & O.B.T. LINES W/ NO CRADLE NEEDED)
 - 18" FOR SANITARY OR STORM SEWER PIPE
 - IF CROSSING SPACE IS MORE THAN MIN. SPACE OF CRADLE BELOW PIPE BOTTOM PLUS AFOREMENTIONED "X" DIMENSION THEN EXTEND "X" DIMENSION TO MAKE UP DIFFERENCE

PIPE LOWERING DETAIL
NOT TO SCALE



NO.	DATE	REVISION

SCALE: AS SHOWN	DATE: 04/09/2024	DESIGNED BY: M.L.B.	DRAWN BY: M.L.B.	CHECKED BY: G.B.C.
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ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY, JEFFERSON, OHIO

GENERAL CONSTRUCTION DETAILS-02

PROJECT NO:	231064
SHEET NAME:	G-07
SHEET OF:	7 15

CONTRACTOR'S RESPONSIBILITIES:

- CONTRACTORS MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL. DEFINITIONS OF CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE ARE PROVIDED BELOW.
- CLEAN FILL: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSIBLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE) REFER TO STANDARD DETAILS AND PROJECT MANUAL FOR SPECIFIC PROJECT REQUIREMENTS.
- ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTIC TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL.
- FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE.

SITE RESTORATION:

- ALL DISTURBED PROPERTY SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION, AS NEAR AS POSSIBLE WITHIN 20 DAYS.
- ONCE AN AREA IS GRADED TO ITS FINAL GRADE IT MUST BE STABILIZED WITH THE PERMANENT SEED MIX SPECIFICATION ACCORDING TO ITS SLOPE.

INSPECTION AND MAINTENANCE:

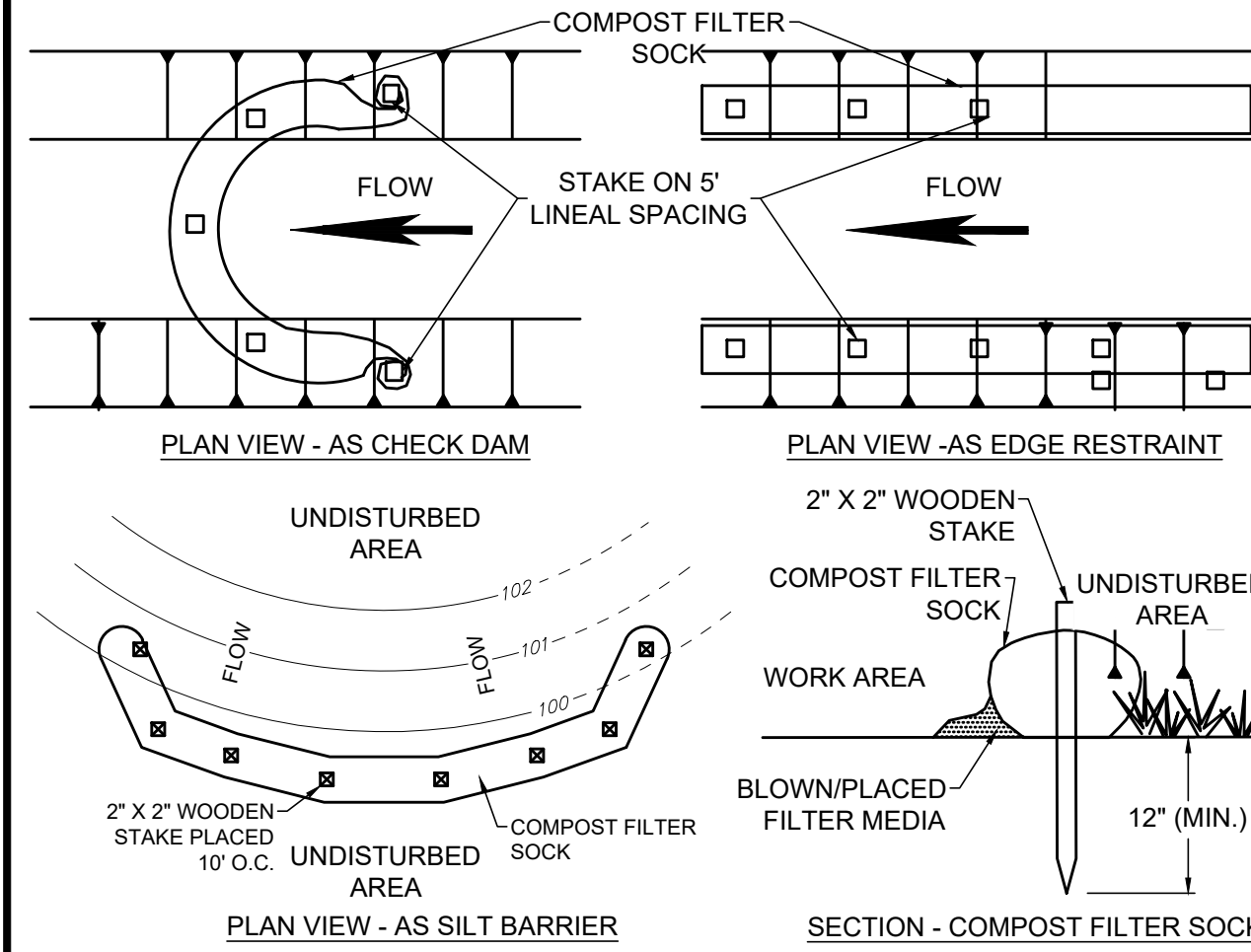
- ALL EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND AFTER EACH
- FABRIC FENCES: REPAIR DAMAGE TO FENCES, BACKFILL UNDERCUTTING, OVERTOPPED AREAS SHALL BE REPLACED WITH AN OUTLET ROCK FILTER. IF SEDIMENT REACHES ONE HALF THE FENCE HEIGHT, IT SHALL BE REMOVED AND PLACED IN THE TOPSOIL AND FILL STOCKPILE AREA. REPLACEMENT FENCE AND STAKES SHALL BE KEPT ON SITE.
- CONSTRUCTION ENTRANCE: WHEN UTILIZED, INSPECTED DAILY. EXCESS SEDIMENT SHALL BE REMOVED AND STORED IN THE TOPSOIL AND FILL STOCKPILE AREA AND USED AS FILL OR ROAD SUBBASE. A STOCKPILE OF REPLACEMENT ROCK SHALL BE KEPT ON SITE.

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AS OUTLINED HEREIN, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE COUNTY SOIL CONSERVATION DISTRICT AND THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- ALL EROSION CONTROL MEASURES SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN ARE TO BE INSTALLED PRIOR TO BEGINNING ANY OTHER EARTH DISTURBING ACTIVITY.
- EROSION AND SEDIMENT BMPs (BEST MANAGEMENT PRACTICES) MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTRIBUTION BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPs.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INSPECTIONS OF ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER ALL STORMS THAT PRODUCE MORE THAN ½" TOTAL RAINFALL. ANY NEEDED REPAIRS SHALL BE PERFORMED IMMEDIATELY.
- THE CONTRACTOR SHALL DOCUMENT ALL INSPECTIONS AND REPAIRS THAT ARE DONE TO MAINTAIN EFFICIENCY. COPIES OF EROSION CONTROL INSPECTION REPORTS SHALL BE SUBMITTED TO THE COUNTY SOIL CONSERVATION DISTRICT. CONTRACTOR SHALL USE DEP FORM 3150-FM-BWEW0083, VISUAL SITE INSPECTION REPORT.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPs MUST BE STABILIZED IMMEDIATELY.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

RECYCLING/DISPOSAL OF WASTE REQUIREMENTS:

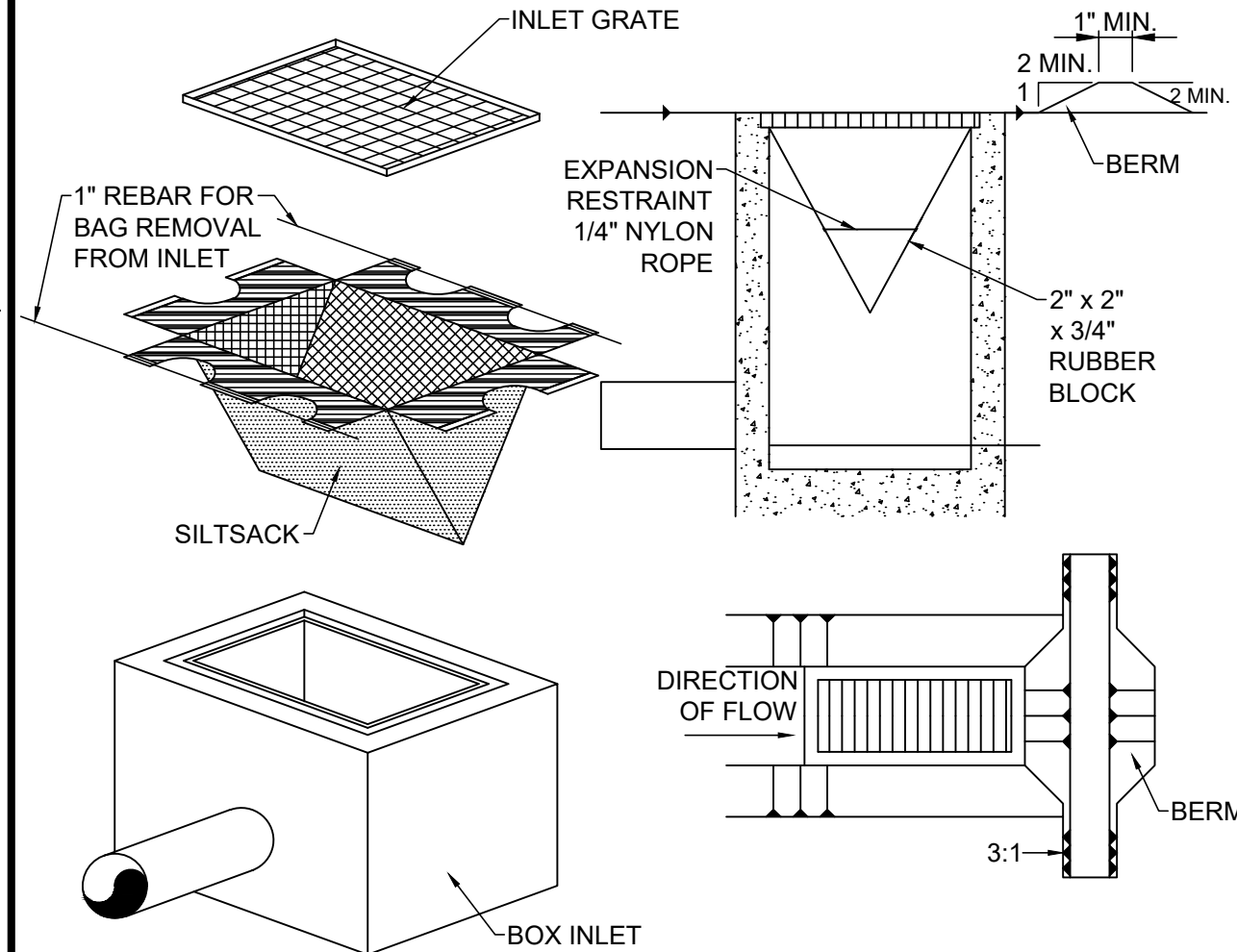
- ALL CONSTRUCTION/DEMOLITION WASTE MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED IN ACCORDANCE WITH THE DEPARTMENTS SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET. SEQ., 287.1 ET. SEQ. THIS INCLUDES SOLID WASTE RESULTING FROM THE CONSTRUCTION OR DEMOLITION OF BUILDINGS OR OTHER STRUCTURES, INCLUDING BUT NOT LIMITED TO: WOOD, PLASTER, METALS, ASPHALTIC SUBSTANCES, BRICKS, BLOCK AND UNSEGREGATED CONCRETE. THIS DOES NOT INCLUDE: UNCONTAMINATED SOIL, ROCK, STONE, GRAVEL, BRICK, BLOCK, CONCRETE, USED ASPHALT, WASTE FROM LAND CLEARING, GRUBBING AND EXCAVATION, INCLUDING TREES, BRUSH, STUMPS AND VEGETATIVE MATERIAL IF THEY ARE SEPARATE FROM OTHER WASTE AND ARE USED AS CLEAN FILL.
- CONSTRUCTION WASTES (INCLUDING BUT NOT LIMITED TO EXCESS SOIL, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC.) ARE TO BE DISPOSED OF OR RECYCLED AT APPROPRIATE, PERMITTED FACILITIES.
- THE CONTRACTOR MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT (IF ANY) QUALIFIES AS CLEAN FILL MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ANY REQUIRED PERMITS.
- ANTICIPATED CONSTRUCTION WASTE:
 - FILL MATERIAL FROM EXCAVATION - LANDFILL
 - CONSTRUCTION DEMOLITION FROM BUILDINGS, TANKS, ETC. - LANDFILL OR RECYCLE IF FEASIBLE
 - CONCRETE WASHOUT - USE WASHOUT FACILITY



NOTES:

- THIS PROJECT REQUIRES THE USE OF 8" DIA. COMPOST FILTER SOCK.
- 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.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCK.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED IN THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- SOCK FABRIC AND COMPOST SHALL MEET THE STANDARDS OF THE LATEST VERSION OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL.
- BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 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.
- SOCKS MAY BE LEFT IN PLACE OR REMOVED. IN THE FORMER CASE, THE SOCK MATERIAL SHALL BE CUT OPEN AND THEN MULCH SPREAD AS A SOIL SUPPLEMENT.

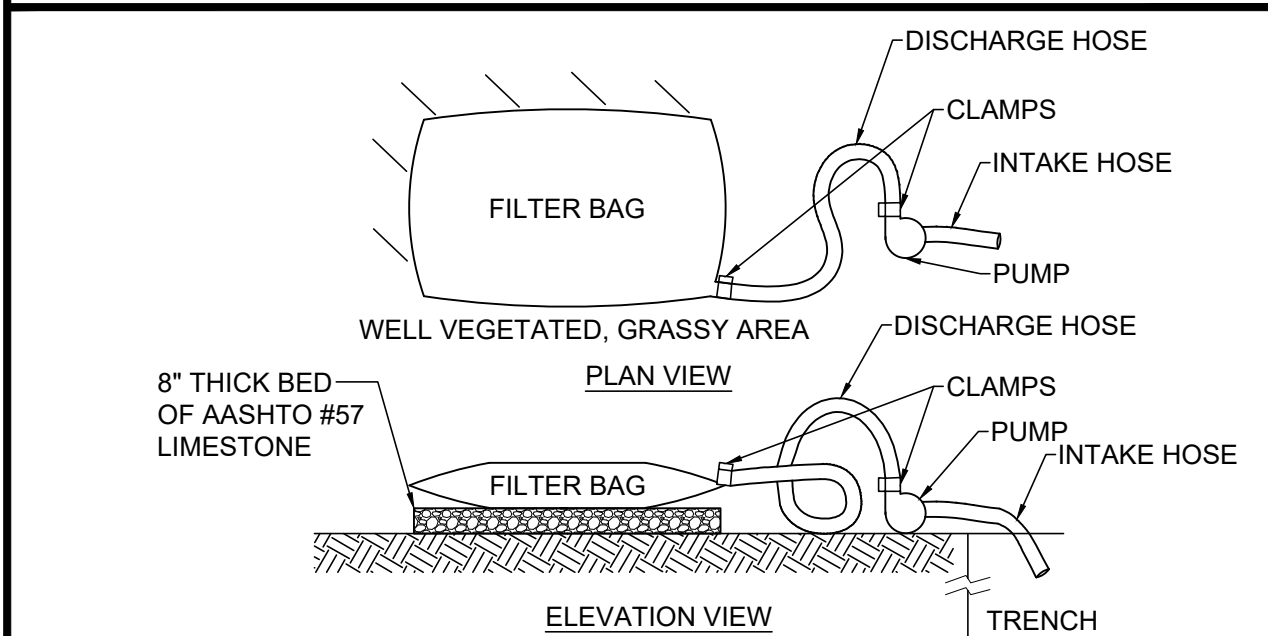
COMPOST FILTER SOCK
NOT TO SCALE



NOTES:

- MAXIMUM DRAINAGE AREA = 1/2 ACRE.
- INLET PROTECTION IS NOT REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP.
- BERMS REQUIRED FOR ALL INSTALLATIONS.
 - 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.

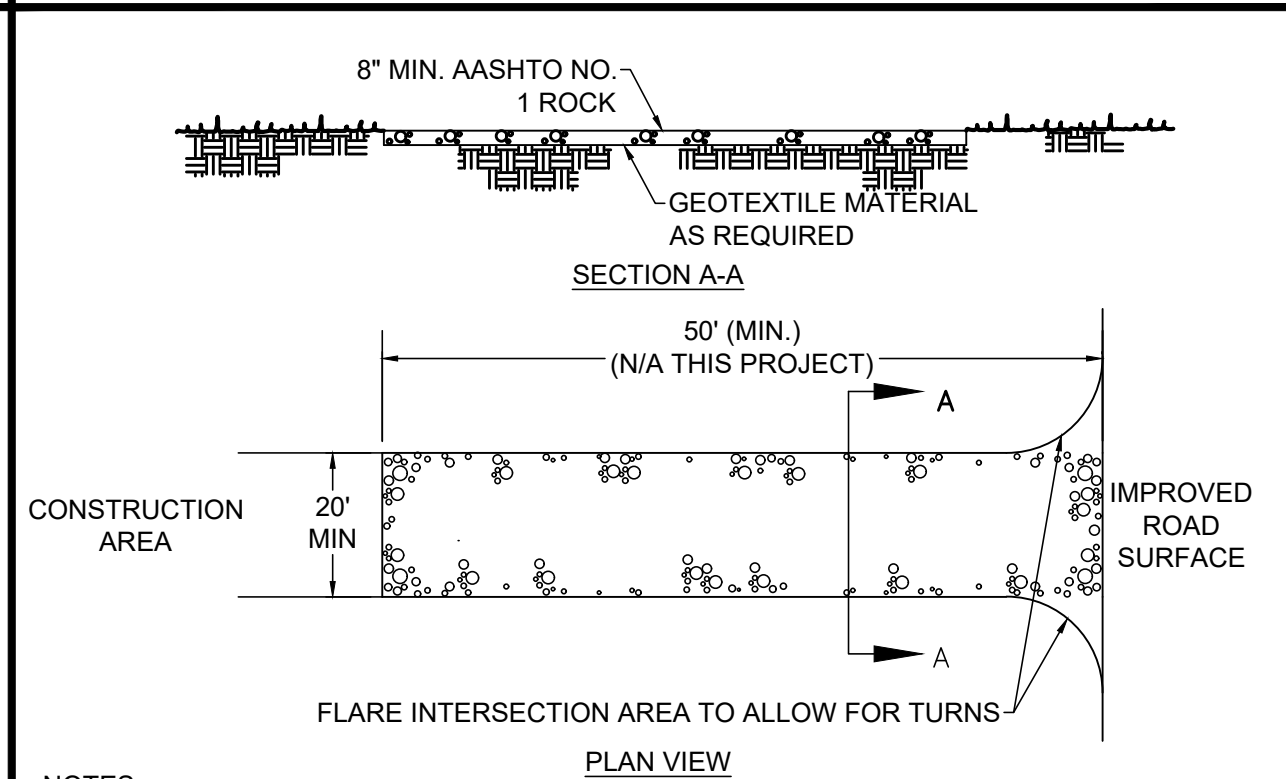
SILT SACK DETAIL
NOT TO SCALE



NOTES:

- 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.
- 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.
- 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%.
- INSERT PUMP DISCHARGE HOSE INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
- THE PUMPING RATE SHOULD BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.
- INSPECT FILTER BAGS DAILY. IF ANY PROBLEM IS DETECTED, CEASE PUMPING IMMEDIATELY AND DO NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG DETAIL
NOT TO SCALE



NOTES:

- ROCK CONSTRUCTION ENTRANCES SHALL BE PLACED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS AND CONSTRUCTED TO THE MINIMUM WIDTH, LENGTH AND THICKNESS DIMENSIONS SHOWN.
- ROCK SHALL BE AASHTO NO.1 AS SPECIFIED IN SECTION 703.2 OF THE PENNDOT PUBLICATION 408.
- FOR INSTALLATION ON CLAYEY OR POORLY DRAINED SOILS, A GEOTEXTILE FABRIC UNDERLAYMENT, OF A TYPE RECOMMENDED FOR SUCH APPLICATIONS BY THE MANUFACTURER, SHALL BE USED.
- MAINTENANCE: THE ROCK CONSTRUCTION ENTRANCE SHALL BE REDRESSED WHEN VOIDS BECOME CHOKED WITH SEDIMENT. THE STRUCTURES THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY CLEANING OR ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON DRIVEWAYS AND PUBLIC ROADWAYS, SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE DRIVEWAYS OR ROADWAYS WITH WATER IS NOT PERMITTED.

ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE

PERMANENT SEED MIX:

TYPE	GERMINATION RATE	APPLICATION RATE
PERMANENT SEED MIXTURE FOR SLOPES 3:1 AND LESS		
50% KENTUCKY BLUEGRASS	85%	1 LBS. PER
20% PERENNIAL RYEGRASS	90%	1250 SF
30% CREEPING RED FESCUE	88%	
98% PURE LIVE SEED		
PERMANENT SEED MIXTURE FOR SLOPES GREATER THAN 3:1		
30% ANNUAL RYEGRASS	90%	1 LBS. PER
25% KENTUCKY BLUEGRASS	90%	1000 SF
31% TALL FESCUE	90%	
15% BIRDSFOOT TREFOIL	90%	
15% WHITE CLOVER	90%	
10% CLIMAX TIMOTHY	90%	
5% REDTOP	90%	
98% PURE LIVE SEED		

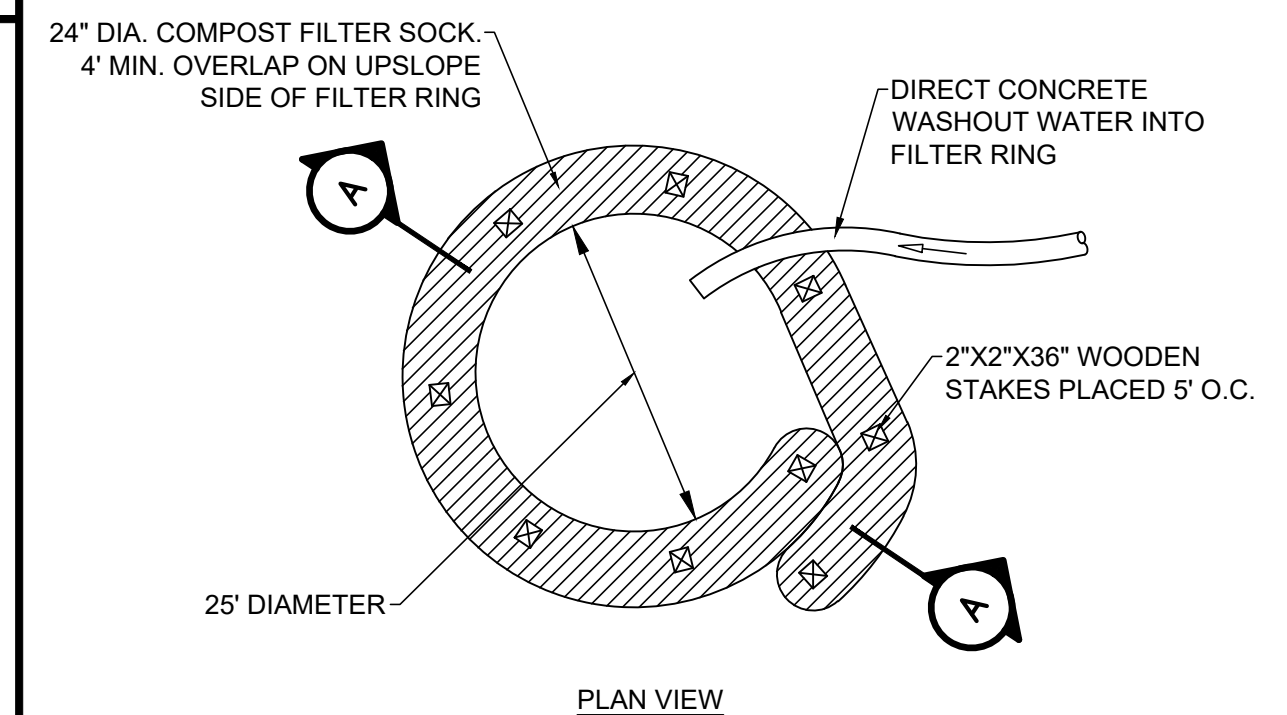
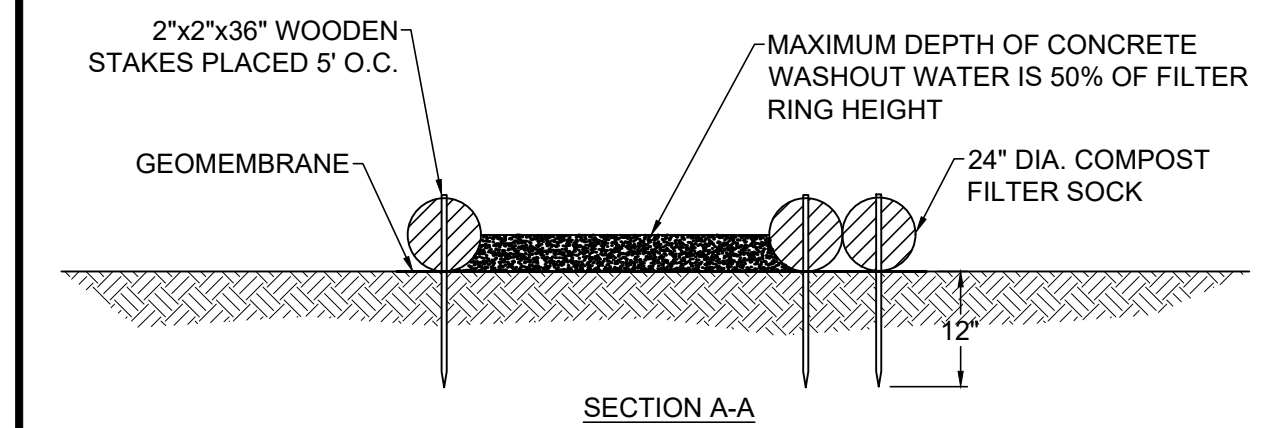
APPLICATION RATE: 100 LB/ACRE
 FERTILIZER 10-20-20, APPLICATION RATE: 680 LB/ACRE
 LIMING RATE: 2.0 TON/ACRE
 MULCH: STRAW - MULCHING RATE: 3.0 TON/ACRE
 PROTECT SEED WITH: NAG 575 OR APPROVED SUBSTITUTE
 SEEDING SEASONS: MARCH 15 - JUNE 1 & AUG 1 - OCT 15

BIODEGRADABLE EROSION CONTROL MATTING/BLANKET

A TEMPORARY DEGRADABLE ROLLED EROSION CONTROL PRODUCT COMPOSED OF PROCESSED NATURAL FIBERS MECHANICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX. AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE PROTECTED WITH NORTH AMERICAN GREEN S75BN EROSION CONTROL BLANKET (ECB) OR APPROVED SUBSTITUTE.

TEMPORARY SEED MIX:

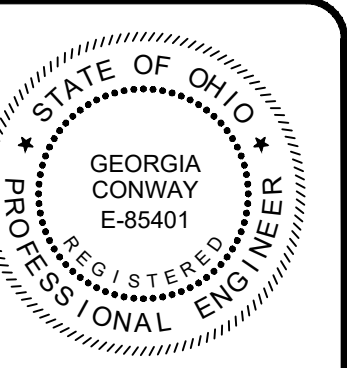
SPECIES: ANNUAL RYE
 % PURE LIVE SEED: 98%
 APPLICATION RATE: 50 LB/ACRE
 FERTILIZER: 10-20-20
 FERTILIZER APPLICATION RATE: 680 LB/ACRE
 LIMING RATE: 2.0 TON/ACRE
 MULCH: STRAW
 MULCHING RATE: 3.0 TON/ACRE



NOTES:

- PROVIDE PROPER SIGNAGE FOR CONCRETE DELIVERY VEHICLE DRIVERS SO THAT THEY ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.
- WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50' OF STORM DRAINS, OPEN DITCHES, OR SURFACE WATERS. UNDER NO CIRCUMSTANCES SHOULD WASH WATER BE ALLOWED TO ENTER ANY SURFACE WATERS.
- WHEREVER POSSIBLE, CONCRETE WASHOUTS SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.
- A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITHIN THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER. CARE MUST BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, 18" SOCKS MAY BE STACKED ONTO 24" SOCKS AND STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION.

TYPICAL COMPOST SOCK WASHOUT INSTALLATION DETAIL
NOT TO SCALE



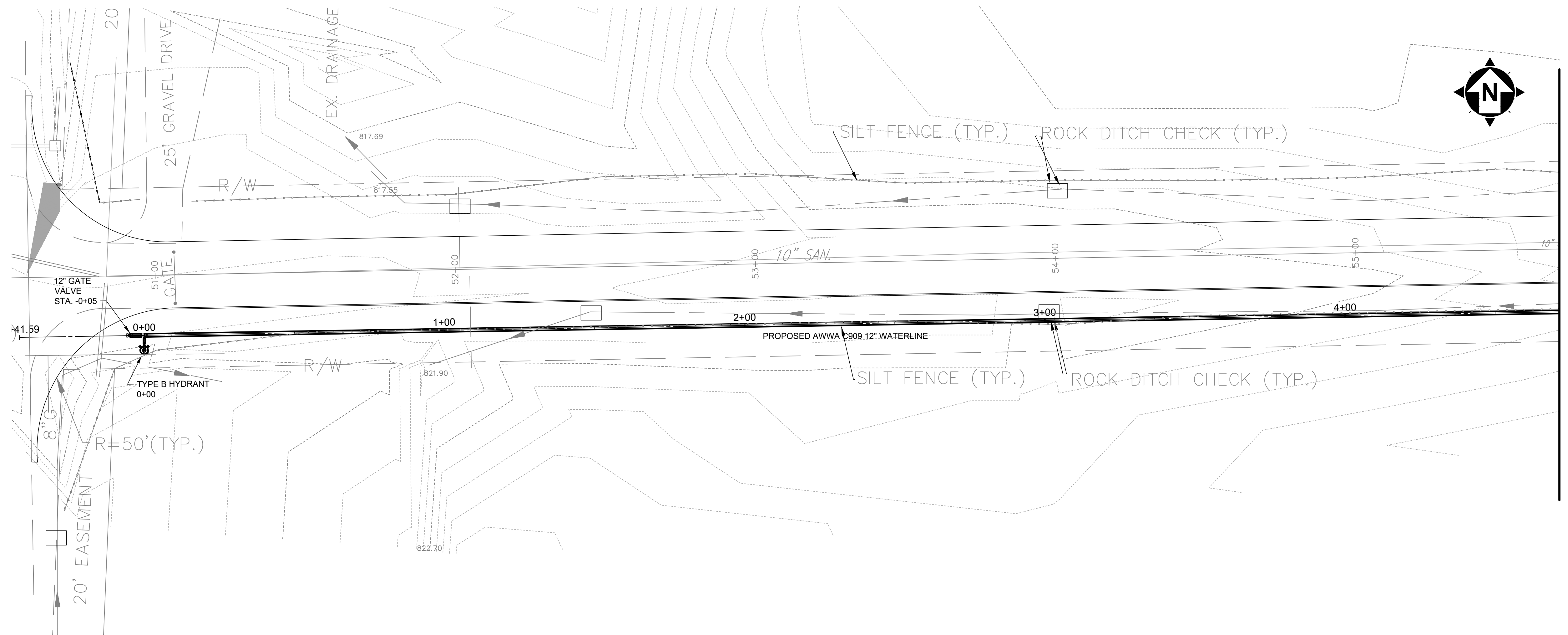
NO	DATE	REVISION
AS SHOWN	04/09/2024	

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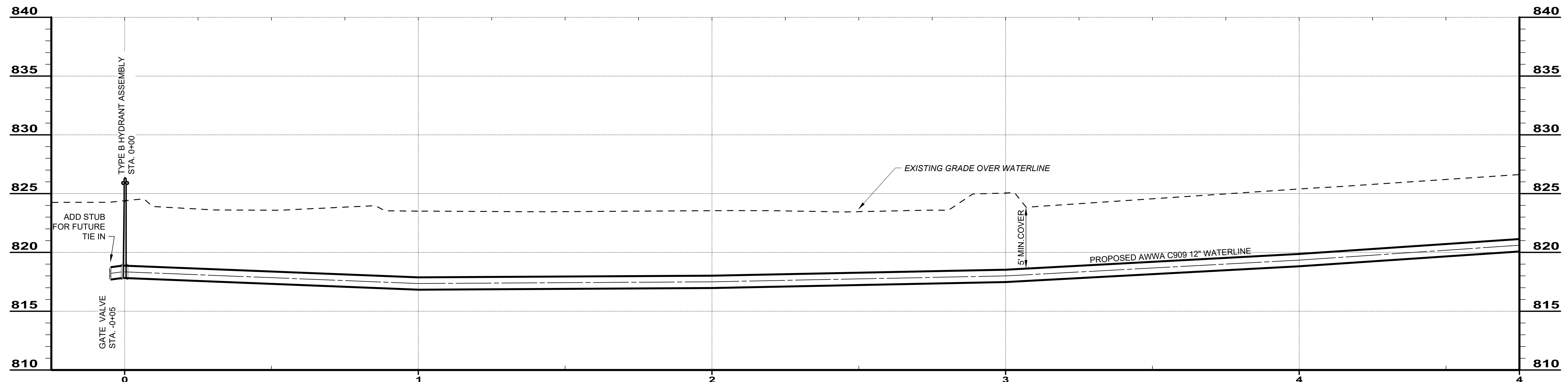
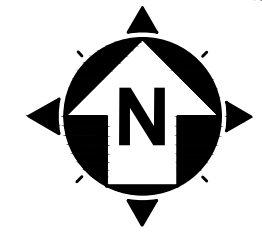
ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
 BISHOP ROAD WATERMAIN
 ASHTABULA COUNTY, OHIO

GENERAL CONSTRUCTION DETAILS-02

PROJECT NO:	231064
SHEET NAME	G-07
SHEET	OF
8	15



STA. 4+75
MATCH LINE



BISHOP ROAD WATERLINE

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

PLEASE NOTE THAT THE EXISTING STORM SEWERS ARE BELOW ELEVATION 810.

PLEASE NOTE THAT THE EXISTING CONDITIONS DRAWING ON THIS SHEET WAS PROVIDED TO CT CONSULTANTS, INC. COURTESY OF ASHTABULA DEPARTMENT OF ENVIRONMENTAL SERVICES.



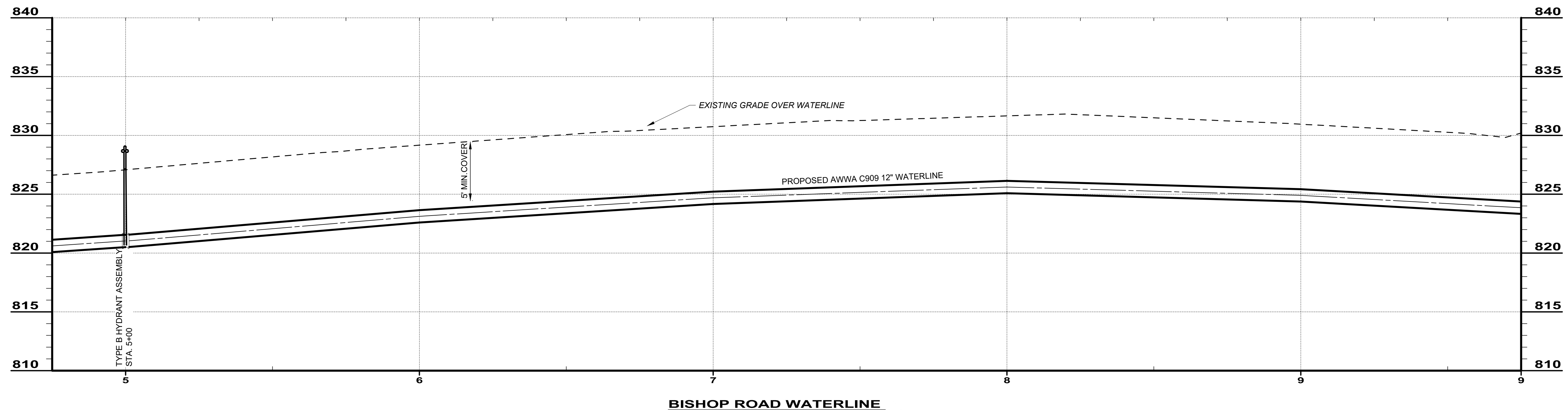
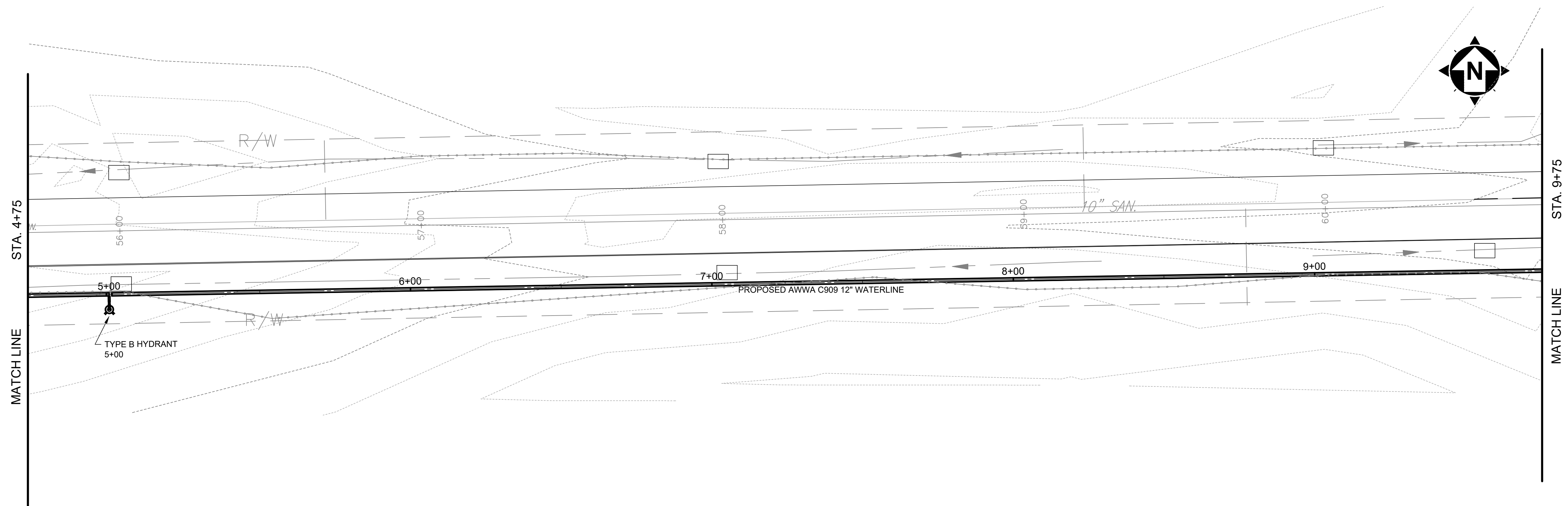
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SCALE: AS SHOWN	DATE: 04/09/2024	DESIGNED BY: MLB	DRAWN BY: MLB	CHECKED BY: GBC
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ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY JEFFERSON, OHIO

PLAN AND PROFILE
BISHOP ROAD PLAN AND PROFILE- 0+00 - 4+75

PROJECT NO: 231064	
SHEET NAME C-01	
SHEET 9	OF 15



BISHOP ROAD WATERLINE

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



NO	REVISION	DATE

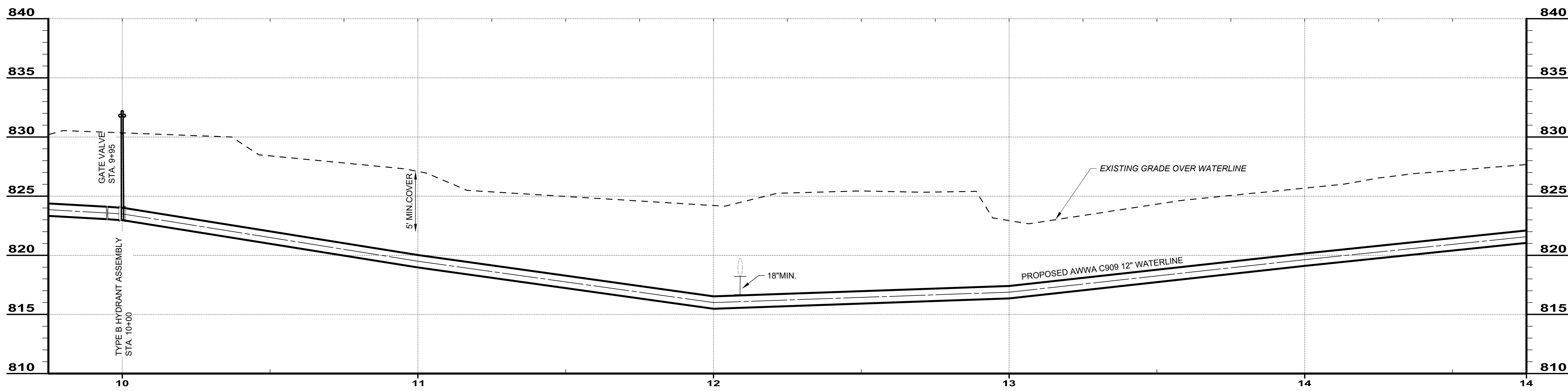
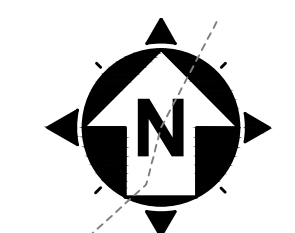
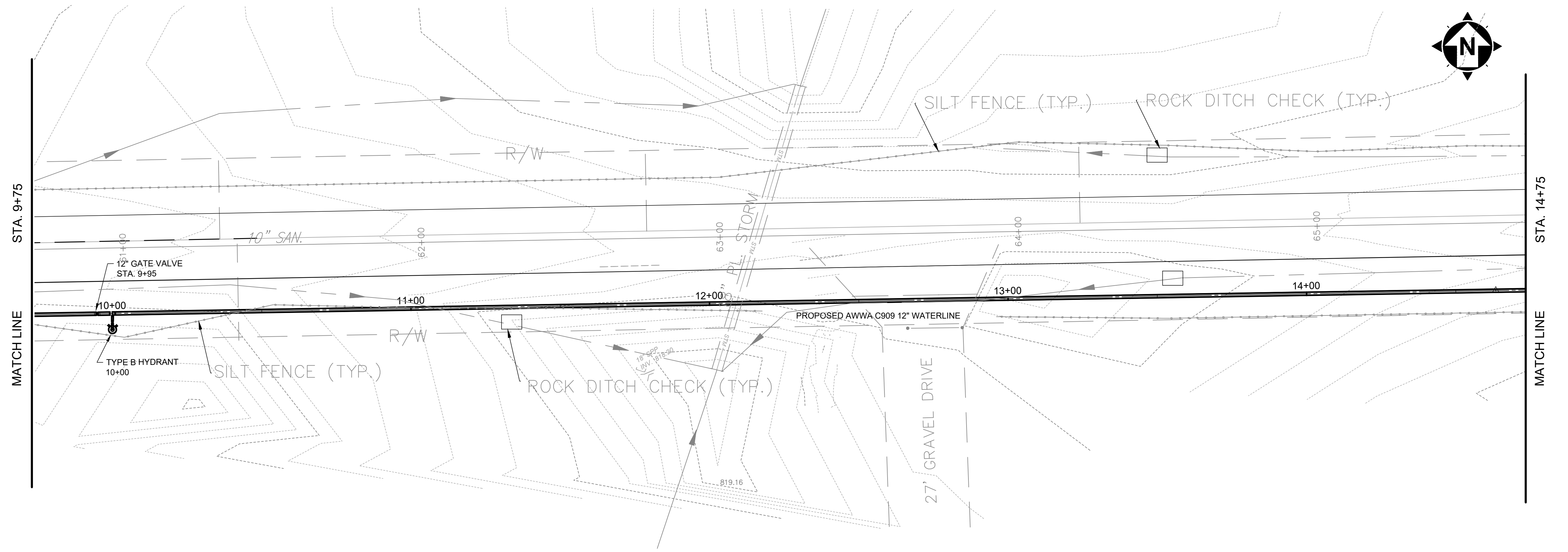
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CHECKED BY:	GBC

ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY
JEFFERSON, OHIO

PLAN AND PROFILE
BISHOP ROAD PLAN AND PROFILE- 4+75 - 9+75

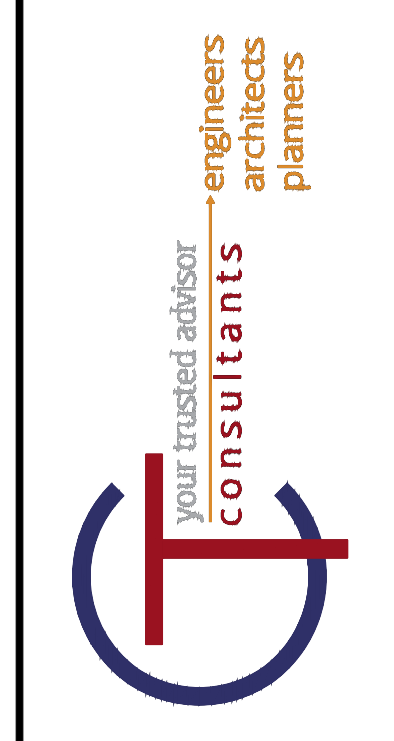
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231064	
SHEET NAME	
C-02	
SHEET	OF
10	15

PLEASE NOTE THAT THE EXISTING CONDITIONS DRAWING ON THIS SHEET WAS PROVIDED TO CT CONSULTANTS, INC. COURTESY OF ASHTABULA DEPARTMENT OF ENVIRONMENTAL SERVICES.



BISHOP ROAD WATERLINE

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



NO	REVISION	DATE

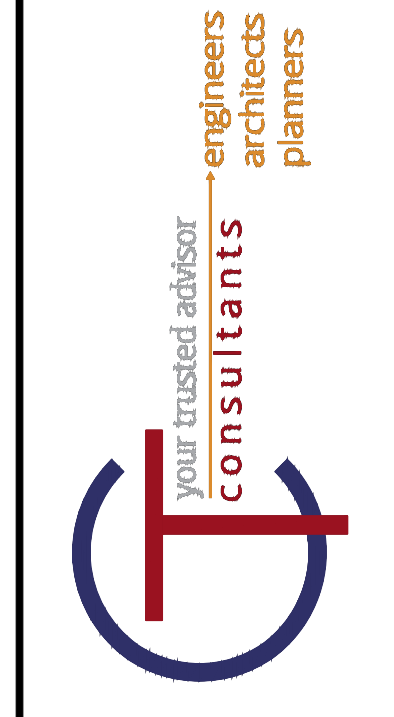
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DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY
JEFFERSON, OHIO

PLAN AND PROFILE
BISHOP ROAD PLAN AND PROFILE- 9+75 -
14+75

PROJECT NO:	
231064	
SHEET NAME	
C-03	
SHEET	OF
11	15

PLEASE NOTE THAT THE EXISTING CONDITIONS DRAWING ON THIS SHEET WAS PROVIDED TO CT CONSULTANTS, INC. COURTESY OF ASHTABULA DEPARTMENT OF ENVIRONMENTAL SERVICES.



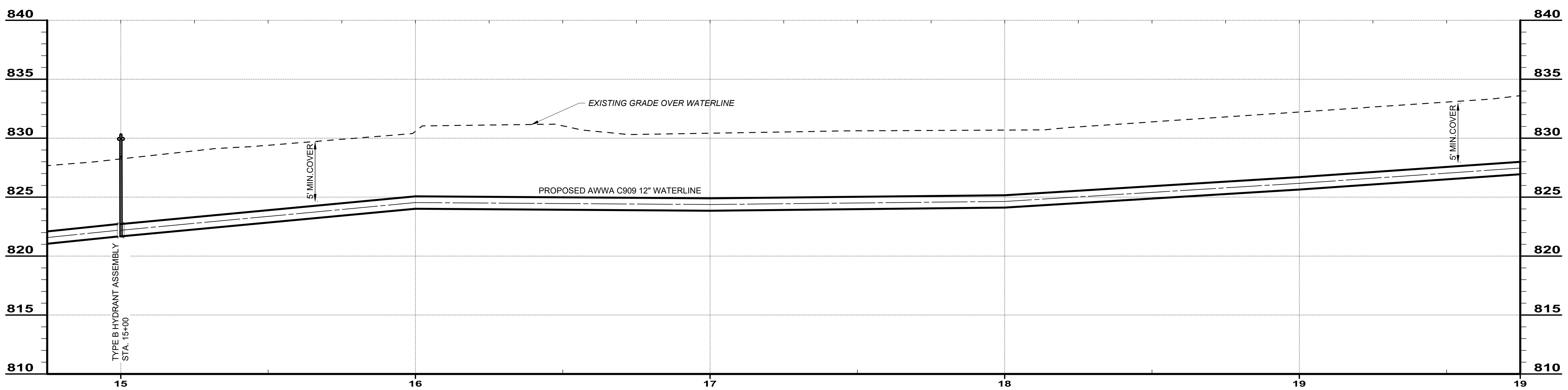
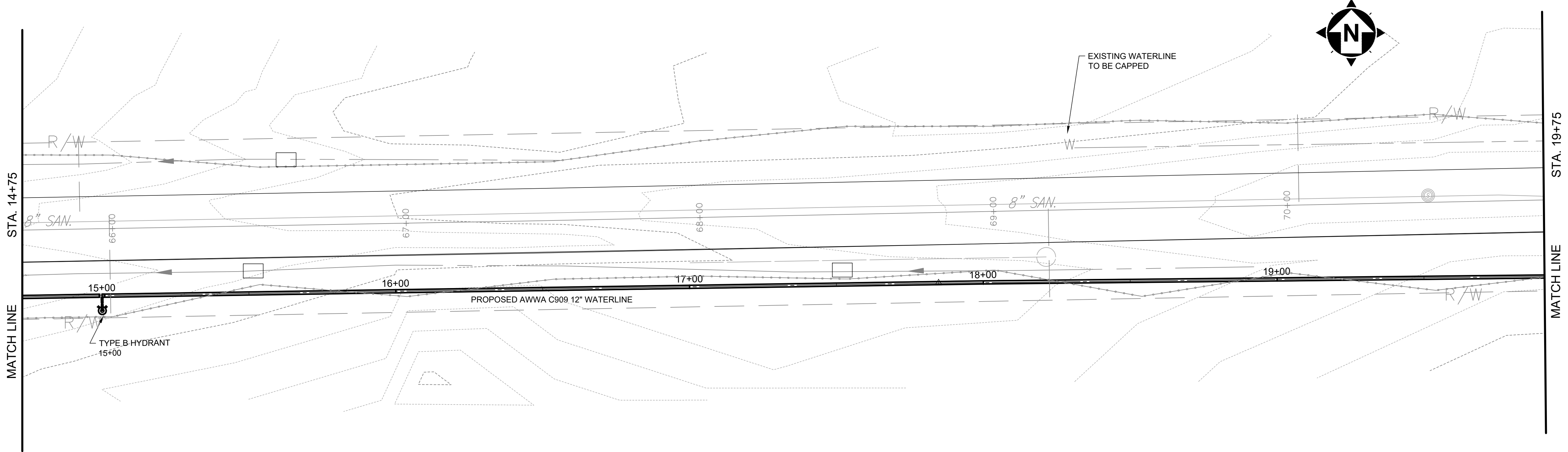
NO	REVISION	DATE

SCALE:	AS SHOWN
DATE:	04/09/2024
DESIGNED BY:	MLB
DRAWN BY:	MLB
CHECKED BY:	GBC

ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY
JEFFERSON, OHIO

PLAN AND PROFILE
BISHOP ROAD PLAN AND PROFILE - 14+75 - 19+75

PROJECT NO:	
231064	
SHEET NAME	
C-04	
SHEET	OF
12	15



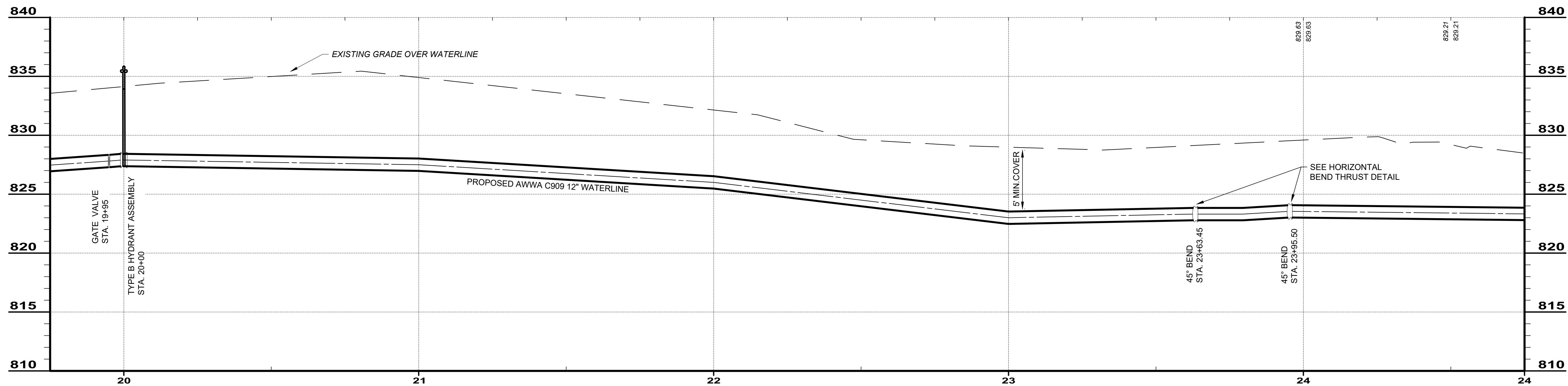
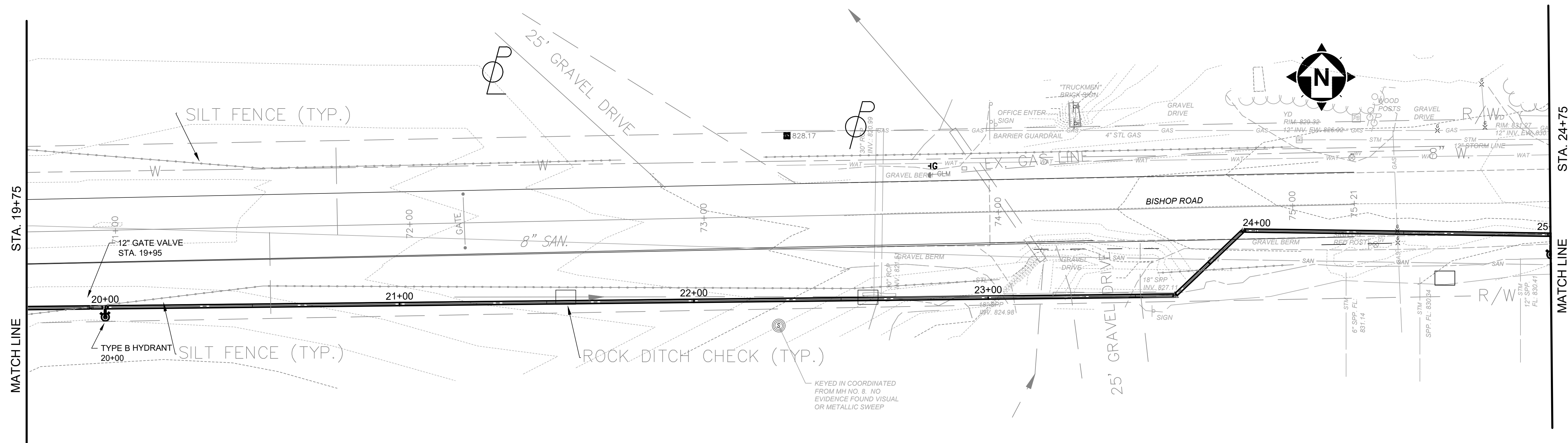
BISHOP ROAD WATERLINE

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

CODED NOTES

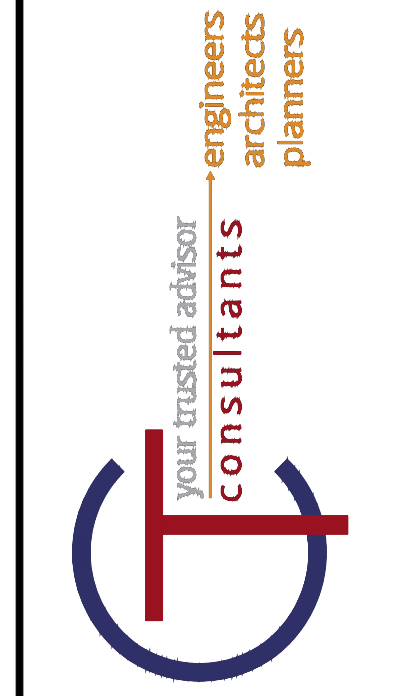
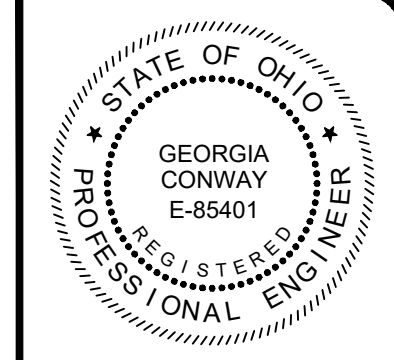
- CONTRACTOR SHALL CAP EXISTING WATERLINE.

PLEASE NOTE THAT THE EXISTING CONDITIONS DRAWING ON THIS SHEET WAS PROVIDED TO CT CONSULTANTS, INC. COURTESY OF ASHTABULA DEPARTMENT OF ENVIRONMENTAL SERVICES.



BISHOP ROAD WATERLINE (13)

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



NO	REVISION	DATE

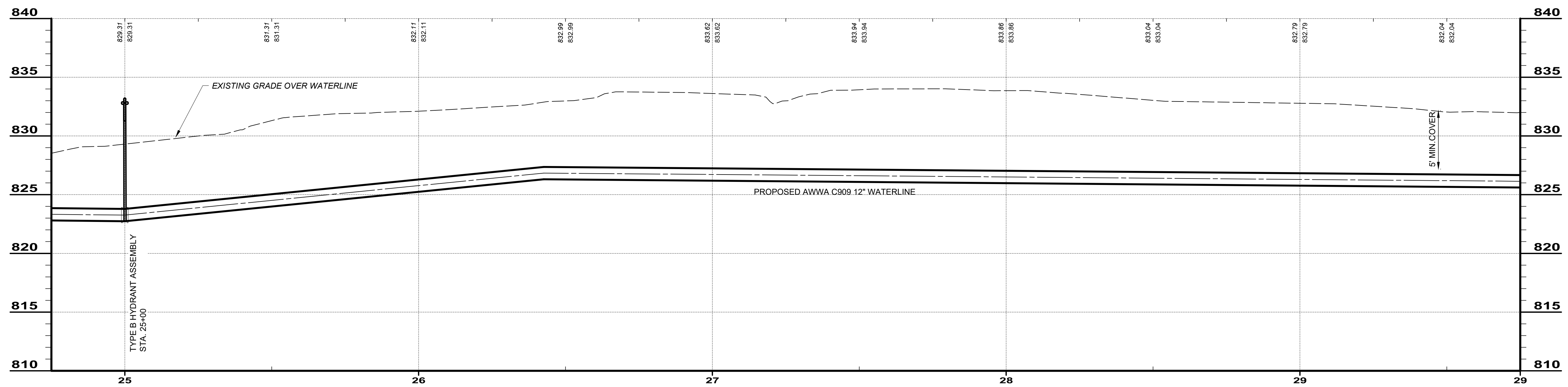
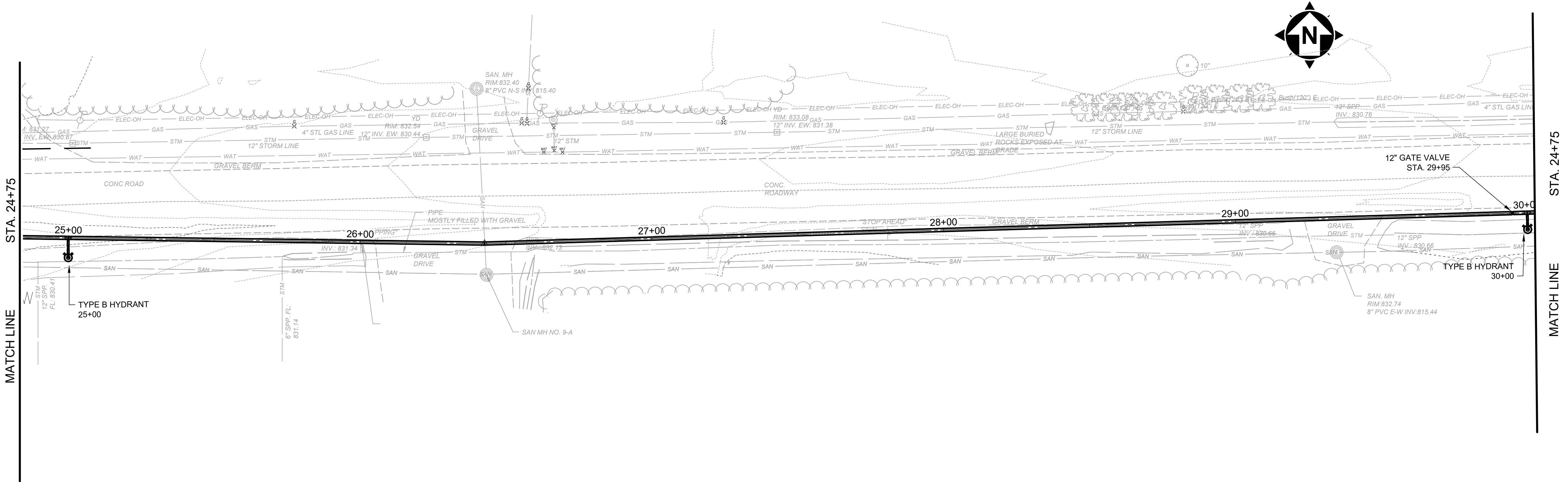
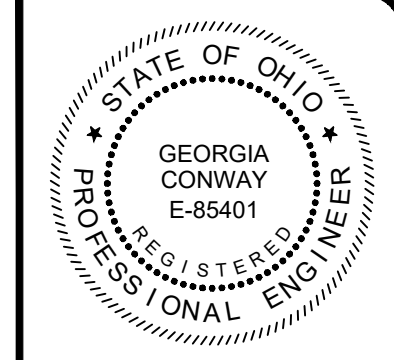
SCALE: AS SHOWN	DATE: 04/09/2024	DESIGNED BY: MLB	DRAWN BY: MLB	CHECKED BY: GBC
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ASHTABULA COUNTY DEPARTMENT
OF ENVIRONMENTAL SERVICES
BISHOP ROAD WATERMAIN
ASHTABULA COUNTY
JEFFERSON, OHIO

PLAN AND PROFILE
BISHOP ROAD PLAN AND PROFILE - 19+75 - 24+75

PROJECT NO: 231064	
SHEET NAME C-05	
SHEET 13	OF 15

PLEASE NOTE THAT THE EXISTING SANITARY SEWERS ARE LOCATED AT ELEVATION 813.



BISHOP ROAD WATERLINE

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

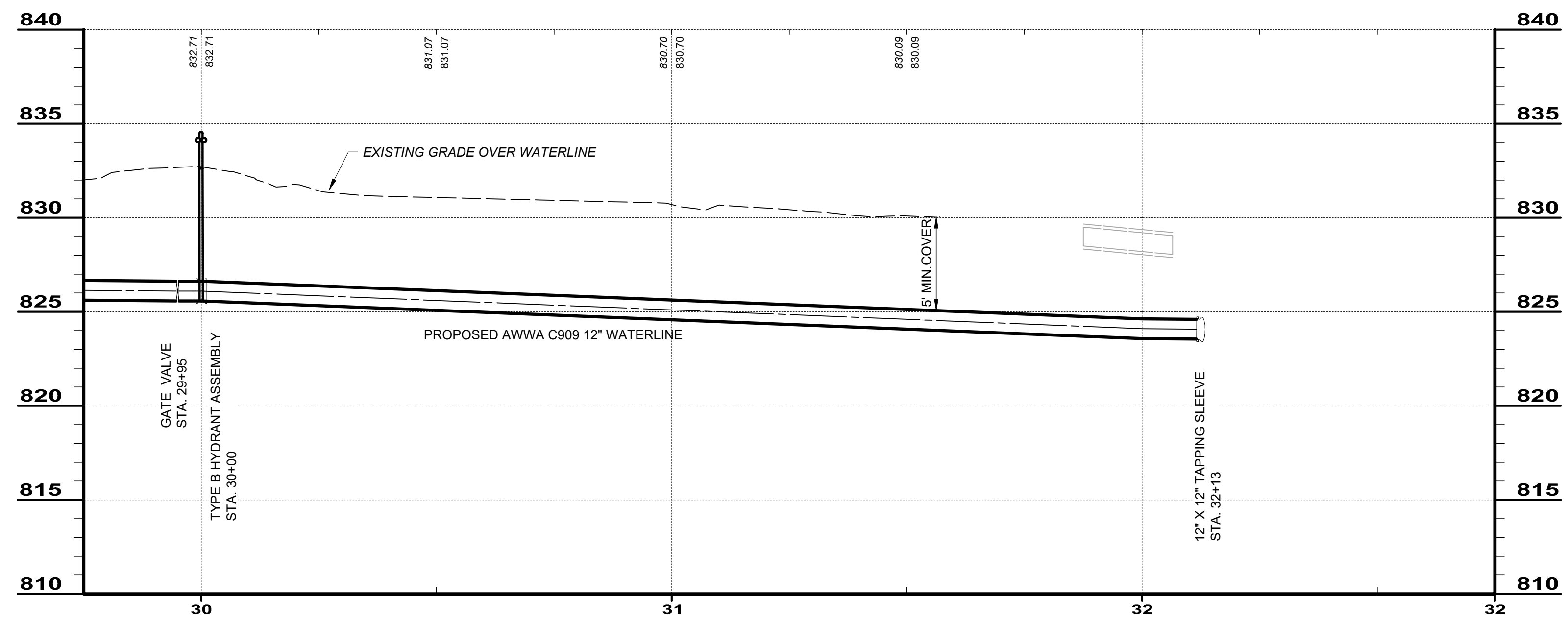
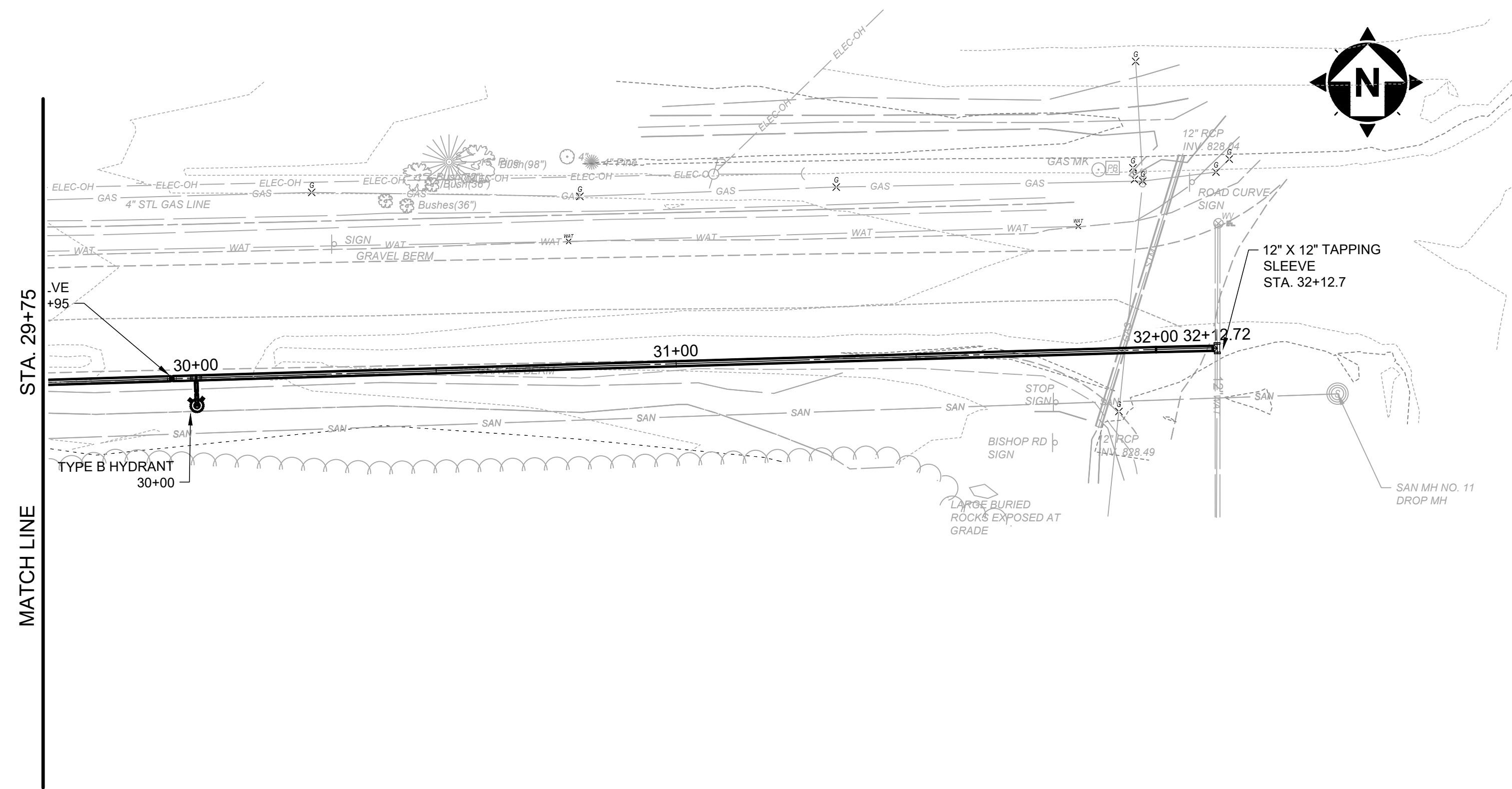
NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 04/09/2024
DESIGNED BY: M.L.B.	DRAWN BY: M.L.B.
CHECKED BY: G.B.C.	

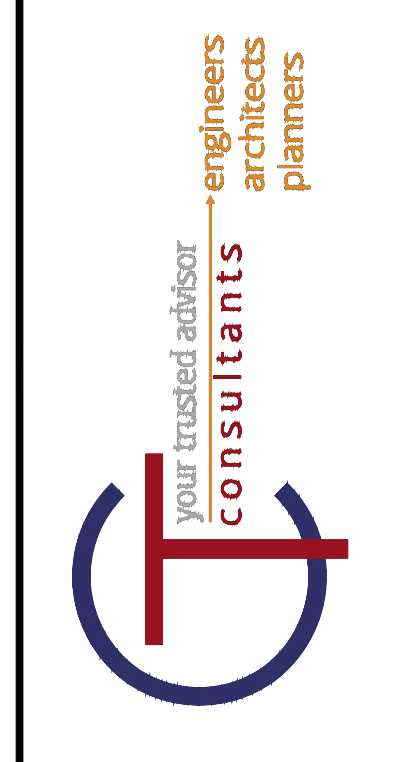
ASHTABULA COUNTY DEPARTMENT
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JEFFERSON, OHIO

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BISHOP ROAD PLAN AND PROFILE - 24+75 - 29+75

PROJECT NO: 231064	
SHEET NAME C-06	
SHEET 14	OF 15



BISHOP ROAD WATERLINE
 SCALE: HORIZ. 1" = 20'
 VERT. 1" = 5'



NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 04/09/2024	DESIGNED BY: MLB	DRAWN BY: MLB	CHECKED BY: GBC
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ASHTABULA COUNTY DEPARTMENT
 OF ENVIRONMENTAL SERVICES
 BISHOP ROAD WATERMAIN
 ASHTABULA COUNTY
 JEFFERSON, OHIO

PLAN AND PROFILE
 BISHOP ROAD PLAN AND PROFILE - 29+75 TO
 END

PROJECT NO: 231064	
SHEET NAME C-06	
SHEET 15	OF 15