

# STONELICK HILLS WATER PETITION PROJECT

CLERMONT COUNTY WATER RESOURCES DEPARTMENT  
PROJECT No. 6401-60222

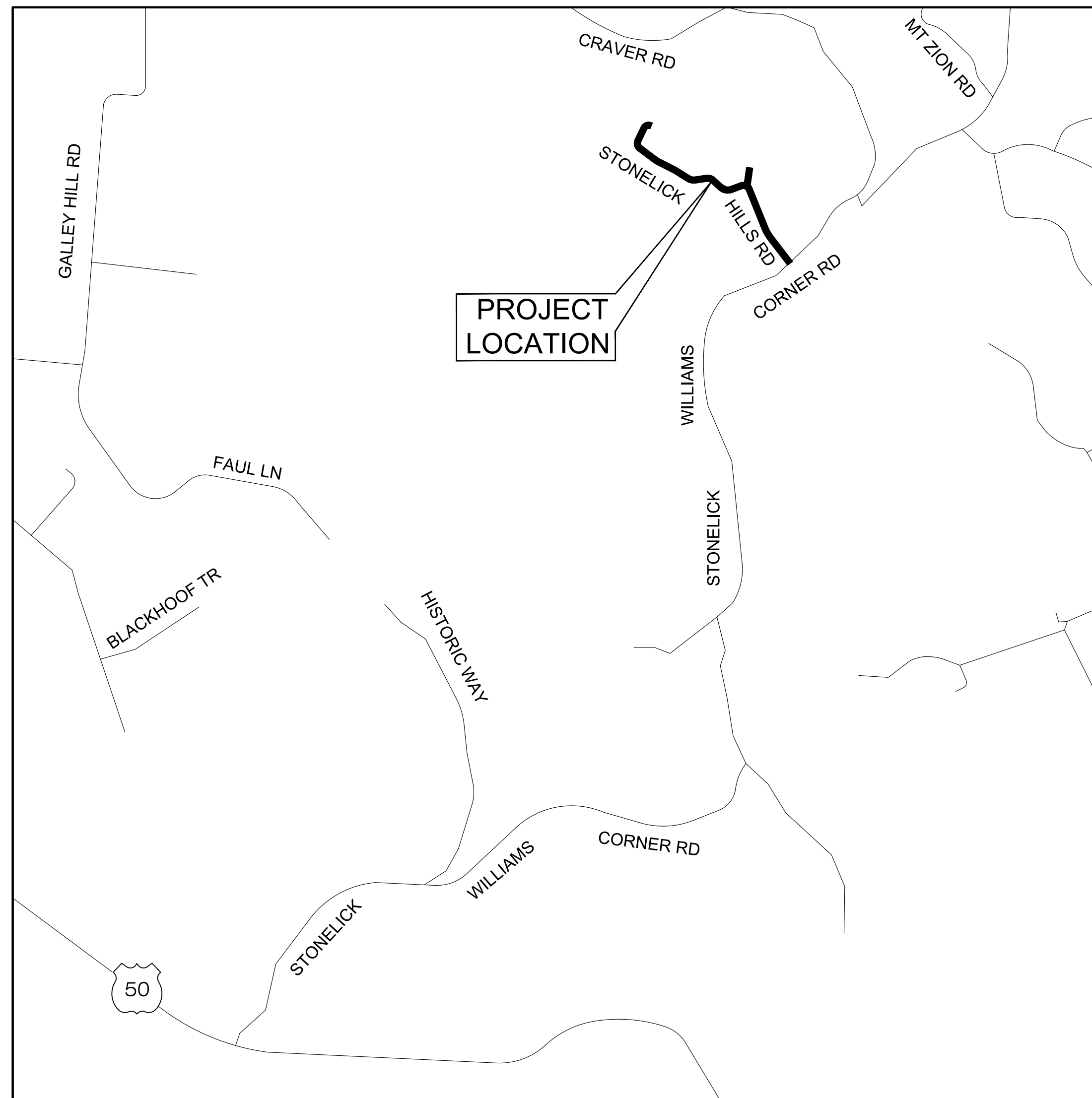
STONELICK TOWNSHIP  
CLERMONT COUNTY, OHIO

**95% DESIGN SUBMITTAL**

<b>BOARD OF COMMISSIONERS</b>
DAVID L. PAINTER
CLAIRE B. CORCORIAN
BONNIE J. BATCHLER

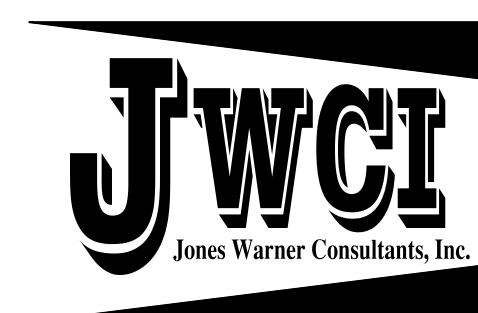
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VICINITY MAP  
NOT TO SCALE

<u>LEGEND</u>			
	EX. CONC. CURB		EX. FLAG POLE
	EX. CONC. CURB REMOVE		EX. POLE ANCHOR
	EX. DRIVEWAY		EX. ANCHOR POLE
	EX. EDGE OF PAVEMENT		EX. LIGHT POLE
	EX. FENCE LINE		EX. TELEPHONE POLE
	EX. GAS LINE, DEEP		EX. POWER POLE
	EX. GUARDRAIL		EX. TELEPHONE/POWER POLE
	EX. PROPERTY LINE		EX. MAIL BOX
	EX. RIGHT OF WAY LINE		EX. ELEC. METER
	EX. SANITARY SEWER LINE		EX. GAS SERVICE VALVE
	EX. SANITARY SERVICE LINE		EX. GAS VALVE
	EX. UNDERGROUND ELECTRIC LINE		EX. GAS VALVE BOX
	EX. STORM SEWER LINE		EX. BOLLARD
	EX. WATER LINE		EX. STEEL POST
	EX. WATER SERVICE LINE		EX. WOOD POST
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			EX. WATER VALVE
			EX. BOULDER
			EX. LANDSCAPE ROCK
			EX. BUSH
			EX. TREE STUMP
			EX. CONIFEROUS TREE
			EX. DECIDUOUS TREE
			EX. BUILDING



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PROFESSIONAL ENGINEERS AND SURVEYORS

DATE 04/15/2024  
Joe Zistler, P.E.  
JWCI, Jones Warner Consultants, Inc.

Title:	TITLE SHEET
Sheet:	T1.01

FILE PATH: S:\PROJECTS\2022\22-041 CLERMONT CO. WATER, STONELICK HILL WATER PETITION PROJECT\CAD\2024-04-12 - 22-041 - STONELICK HILLS - WATER MAIN.DWG PLOTTED BY: SMILLER PLOT DATE: 4/15/2024

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GENERAL NOTES

GENERAL: ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST RULES AND REGULATIONS OF THE CLERMONT COUNTY WATER RESOURCES DEPARTMENT FOUND AT WRD.CLERMONTCOUNTYOHIO.GOV. IT IS THE INTENT OF THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS TO DESCRIBE A COMPLETE FUNCTIONING SYSTEM IN ALL RESPECTS, WHETHER OR NOT EVERY SUB-ELEMENT OF THE TOTAL SYSTEM IS ACTUALLY DEFINED IN WRITING AND/OR DETAIL. PAYMENT TO THE CONTRACTOR(S) SHALL BE INFERRED TO COVER WORK AND MATERIALS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM SUCH THAT WHEN FINAL PAYMENT IS MADE, THE SYSTEM IS COMPLETELY OPERABLE AND FUNCTIONS IN ALL RESPECTS AS REQUIRED BY THE CONTRACT DOCUMENTS.

THE WORK TO BE PERFORMED UNDER THESE SPECIFICATIONS INCLUDES FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE THE WORK CALLED FOR IN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ELECTRIC, WATER, SANITARY FACILITIES AND WASTE DISPOSAL TO COMPLETE THE WORK.

A SITE VISIT IS HIGHLY RECOMMENDED PRIOR TO SUBMISSION OF BID.

THE EXISTING WATER MAIN IS SHOWN BASED ON FIELD SURVEYS AND THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF WORK.

THE EXISTING WATER MAIN IS TO REMAIN IN SERVICE DURING CONSTRUCTION OF THE NEW WATER MAIN.

THE PROPOSED WATER MAIN SHALL BE INSTALLED AT A MINIMUM 4' BELOW THE PROPOSED GRADE OR AS DIRECTED BY THE ENGINEER.

CONTRACTOR IS RESPONSIBLE TO PROVIDE SUPPORT TO THE EXISTING UTILITY POLES, AS NECESSARY TO COMPLETE THE WORK CALLED FOR IN THE CONTRACT DRAWINGS AND SPECIFICATIONS.

PAVEMENT: ALL PAVEMENT AND/ROADWAY SURFACE DISTURBED BY THE CONTRACTOR, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE AND IN CONFORMANCE WITH THE REGULATIONS OF THE GOVERNING AUTHORITY OF SAID ROADWAYS. IN THE ABSENCE OF SUCH REGULATIONS, THE RESTORATION SHALL BE IN ACCORDANCE WITH INSTRUCTIONS BY THE OWNER'S REPRESENTATIVE WITH THE OBJECTION OF RESTORING THE PAVING OR ROADWAY SURFACE TO THE ORIGINAL CONDITION OF SAME.

RESTORATION: TEMPORARY RESTORATION AND RESTORATION OUTSIDE OF THE LIMITS OF THIS CONSTRUCTION PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO VIDEO TAPE AND PHOTOGRAPH ALL AREAS THAT WILL BE DISTURBED AS A RESULT OF HIS CONSTRUCTION ACTIVITIES AND WILL DELIVER TO THE OWNER'S REPRESENTATIVE A COPY OF THE VIDEO TAPE AND PHOTOGRAPHS. ALL PICTURES SHALL BE LABELED WITH THE LOCATION WHERE TAKEN. NONCOMPLIANCE MAY RESULT IN THE CONTRACTOR'S LIABILITY FOR ALL DISPUTED PROPERTY RESTORATIONS.

EROSION CONTROL: THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO COMPLETE THE WORK AS OUTLINED IN THESE DRAWINGS AND PROJECT SPECIFICATIONS AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. THIS WORK SHALL INCLUDE THE TIME FOLLOWING THE THIRD PARTY RESTORATION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CLERMONT COUNTY WATER MANAGEMENT AND SEDIMENT CONTROL REGULATIONS AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE

UTILITIES: THE EXISTENCE, LOCATION, AND CONDITION OF UTILITIES AND STRUCTURES, BOTH ABOVE AND BELOW GROUND, SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. EXCAVATION IN THE VICINITY OF SUCH UTILITIES AND STRUCTURES, SHALL BE DONE CAREFULLY AND BY HAND IF NECESSARY. THE CONTRACTOR SHALL PROTECT ALL SUCH UTILITIES AND STRUCTURES, BOTH MARKED AND UNMARKED, AND BE HELD RESPONSIBLE FOR DAMAGE TO SAME. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ISOLATE, BRACE, SUPPORT, SHEET, ETC., AND PROTECT THE EXISTING UTILITIES FROM MOVING EITHER HORIZONTALLY OR VERTICALLY. IF SUCH MOVEMENT DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPAIR THE UTILITY TO THE SATISFACTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL OWNERS OF ADJACENT UTILITIES, FIXTURES, AND/OR PROPERTY, OF HIS IMPENDING OPERATIONS, BUT IN NO WAY APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS IN ADVANCE OF EXCAVATION IN THE VICINITY OF SAID UTILITY. FIELD LOCATION SHALL BE MADE BY THE UTILITY OR ITS AUTHORIZED AGENCY BEFORE ANY WORK IS PERFORMED BY THE CONTRACTOR. IF AT ANYTIME DURING WORK, AN EXISTING UTILITY IS DAMAGED IN ANY WAY, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE APPROPRIATE GOVERNING ENTITY AND THE OWNER'S REPRESENTATIVE.

SHUT DOWNS AND SCHEDULING.

- 1 WEEK TO PLAN
- 48 HOURS NOTICE TO AFFECTED CUSTOMERS REQUIRED PRIOR TO SHUTDOWNS
- CONTRACTOR REQUIRED TO DISTRIBUTE THE SHUT DOWN NOTICES PROVIDED BY THE OWNER

TESTING AND DISINFECTION OF WATER MAIN

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO DISINFECT THE COMPLETE WATER PIPE LINE IN ACCORDANCE WITH AWWA C-651 AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ALL PIPING AND APPURTANCES MUST BE PROPERLY DISINFECT WITH A MINIMUM OF 50 MILLIGRAMS PER LITER TOTAL CHLORINE RESIDUAL FOR 48 HOURS. THE PIPING MUST BE FLUSHED TO REMOVE ANY EXCESS CHLORINE. CHLORINE SOLUTION SHALL BE EVENLY APPLIED AND DISTRIBUTED THROUGHOUT THE PIPING.

A HYDROSTATIC TEST AS REQUIRED IN SECTION 4 OF THE STANDARD AWWA SPECIFICATIONS C-600 SHALL BE APPLIED TO INDIVIDUAL VALVED-OFF SECTIONS OF THE MAINS AND FIRE HYDRANT LEADS EITHER BEFORE OR AFTER THE TRENCH IS BACKFILLED. THE PRESSURE DURING THE TEST SHALL BE MAINTAINED AT 250 PSI, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE, IN ANY SECTION BEING TESTED. THE DURATION OF EACH TEST SHALL BE AT LEAST TWO HOURS. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, MAKE ALL TAPS OR CONNECTIONS REQUIRED, AND PROVIDED ANY NECESSARY PIPING AND ALL NECESSARY ASSISTANCE FOR CONDUCTING THE TEST.

THE ONLY EXCLUSION OF TESTING IS TIE IN PIPING LESS THAN 18' IN LENGTH. IN THIS CASE, THE PIPE WILL BE SWABBED OR SPRAY DISINFECTED WITH CHLORINE SOLUTION, IN ACCORDANCE WITH AWWA C-657.

SPECS FOR PIPE, BENDS, VALVES AND APPURTANCES

DUCTILE IRON PIPE SHALL BE DUCTILE, CENTRIFUGALLY CAST TYPE IN ACCORDANCE WITH ANSI A21.51 (AWWA C-151) UNLESS OTHERWISE NOTED. FOR ALL IN-GROUND INSTALLATIONS THE PRESSURE CLASS SHALL BE CLASS 52, UNLESS A HIGHER CLASS IS REQUIRED BY LAYING CONDITIONS OR PRESSURE IN ACCORDANCE WITH ANSI A21.50 AND APPROVED BY THE OWNER'S REPRESENTATIVE. ALL DUCTILE PIPES SHALL HAVE BITUMINOUS COATED CEMENT LINING COMPLYING WITH AWWA C-104 AND SHALL HAVE AN OUTSIDE COATING OF BITUMASTIC ENAMEL OR APPROVED EQUAL. ALL DUCTILE IRON PIPES SHALL BE PROVIDED WITH EITHER MECHANICAL JOINT ENDS OR PUSH-ON JOINTS ENDS.

ALL FITTINGS, WALL PIPES AND SPECIALS SHALL BE OF DUCTILE IRON OR IN ACCORDANCE WITH ANSI A21.10 (AWWA C-153). ALL FITTINGS SHALL HAVE A BITUMINOUS COATED CEMENT LINING COMPLYING WITH AWWA C-104 AND SHALL HAVE AN OUTSIDE COATING COMPLYING WITH AWWA C-153 OR AN EPOXY COATING COMPLYING WITH AWWA C-116. ALL DUCTILE IRON FITTINGS SHALL BE PROVIDED WITH AND ASSEMBLED USING MECHANICAL JOINT ENDS AND RETAINER GLANDS.

CONCRETE THRUST BLOCKING, SUPPORTS AND/OR BUTTRESSES SHALL BE PROVIDED AT ALL TEES AND BENDS AND AT ANY OTHER LOCATIONS REQUIRED BY THE DISTRICT. THESE CONCRETE STRUCTURES SHALL BE BUILT TO THE LINES, GRADES AND DIMENSIONS SHOWN ON THE STANDARD DRAWINGS. CONCRETE USED FOR BLOCKING SHALL CONFORM TO CLASS C CONCRETE, HAVING A COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH. ALL CONCRETE SHALL BE MIXED BY MECHANICAL MEANS PRIOR TO INSTALLATION. THE INSTALLATION OF DRY CONCRETE WILL NOT BE PERMITTED.

PIPE JOINTS RESTRAINTS SHALL BE FIELD LOK GASKET, AMERICAN FAST GRIP, OR APPROVED EQUAL AS DETERMINED BY OWNER'S REPRESENTATIVE, EXCEPT AS MODIFIED HEREIN. ALL FIRE HYDRANT LEADS AND FIRE HYDRANT ASSEMBLIES SHALL BE RESTRAINED USING MEGALUG SERIES 1100 MECHANICAL JOINT RESTRAINT OR SIGMA CORPORATION ONE-LOCK SERIES SLIDE MECHANICAL JOINT RESTRAINT FOR DUCTILE IRON PIPE OR APPROVED EQUAL AS DETERMINED BY OWNER'S REPRESENTATIVE.

POLYETHYLENE ENCASEMENT SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5 METHODS A OR B AND THE COUNTY'S SPECIFICATIONS. THE POLYETHYLENE ENCASEMENT SHALL BE A LOW-DENSITY POLYETHYLENE FILM MADE FROM VIRGIN LOW-DENSITY POLYETHYLENE RAW MATERIAL CONFORMING TO ASTM D4976 AND SHALL BE A MINIMUM OF EIGHT MILS IN THICKNESS.

GATE VALVES: ALL GATE VALVES SHALL CONFORM TO AWWA C-509 OR C-515 EXCEPT AS MODIFIED HEREIN. NEW GATE VALVES SHALL BE FULLY ENCAPSULATED RESILIENT WEDGE, NON-RISING STEM, LEFT HAND OPEN (COUNTER CLOCKWISE), AND SHALL HAVE RUBBER "O"-RING, PACKING SEALS AND MECHANICAL JOINT ENDS WITH A 250 PSI PRESSURE RATING, UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. THE INTERNAL VALVE COATING SHALL BE IN ACCORDANCE WITH AWWA-C550. APPROVED MODELS ARE: AMERICAN FLOW CONTROL SERIES 2500, MUELLER 2362, US PIPE A-USP2, M&H 4067, M&H 7000, KENNEDY KS-RW, AND CLOW MODEL 2638.

VALVE BOXES SHALL BE EQUAL TO F-2450 SERIES AS MANUFACTURED BY CLOW CORP OR SIGMA CORPORATION VB261-8. VALVE BOX ASSEMBLY SHALL BE OF CAST IRON WITH STAY PUT COVER AND PROPERLY SIZED BASE FOR THE VALVE BEING FITTED. COVER SHALL BE MARKED "WATER". ALL BOXES SHALL BE FURNISHED WITH THE NECESSARY EXTENSIONS TO BRING THE TOP OF THE BOX TO THE FINISHED GRADE.

BUTTERFLY VALVES: ALL BUTTERFLY VALVES SHALL CONFORM TO THE AWWA STANDARD SPECIFICATION FOR RUBBER SEATED BUTTERFLY VALVES; DESIGNATION AWWA C-504 OF THE LATEST REVISION EXCEPT AS MODIFIED HEREIN. VALVES SHALL BE SUITABLE FOR FLOW IN EITHER DIRECTION AND SHALL BE BUBBLE TIGHT IN EITHER DIRECTION. WAFER VALVES SHALL NOT BE ACCEPTABLE. INTERNAL VALVE COATING SHOULD BE IN ACCORDANCE WITH AWWA-C550. VALVES SHALL BE AWWA CLASS 250B DESIGNED FOR 250 PSI NON-SHOCK SHUT-OFF PRESSURE. VALVES AND APPURTENANCES, INCLUDING OPERATORS, SHALL BE CAST IRON SUITABLE FOR BURIED AND SUBMERGED SERVICE. VALVES FOR USE WITH DUCTILE IRON PIPE SHALL HAVE MECHANICAL JOINT ENDS FURNISHED WITH HIGH STRENGTH CAST IRON TEE HEAD BOLTS AND HEX NUTS, AND RUBBER GASKETS. BODIES SHALL BE CAST IRON CONFORMING TO ASTM A126, CLASS B, OR ASTM A48, CLASS 40, OR DUCTILE IRON CONFORMING TO ASTM A536 GRADE 65-45-12 OR 70-50-05, UNLESS OTHERWISE APPROVED. SHAFTS SHALL BE STAINLESS STEEL CONFORMING WITH ASTM A276, TYPE 304, OR ASTM 564, TYPE 630, OR MONEL, TURNED, GROUND AND POLISHED. SHAFTS SHALL BE SECURED TO THE VALVE DISC BY A PROCESS SUCH AS BOLTING, RIVETING, THREADING, UPSETTING, OR CROSS-PINNING, USING CORROSION-RESISTANT METALS. CHEMICAL BONDING, ADHESIVES, OR WELDING SHALL NOT BE USED.

VALVES SHALL BE DESIGNED TO SEAT AT 90 DEGREES TO THE PIPE AXIS AND SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIALS. SEATS SHALL BE OF A RUBBER COMPOUND COMPLYING WITH THE REQUIREMENTS OF AWWA C-504. RUBBER SEATS SHALL BE ON THE BODY. OPERATORS SUITABLE FOR BURIED AND SUBMERGED SERVICE SHALL BE FURNISHED WITH EACH VALVE.

OPERATORS SHALL BE DESIGNED TO PRODUCE THE SPECIFIED OUTPUT TORQUE WITH A MAXIMUM INPUT TORQUE OF 150 FOOT-POUNDS APPLIED TO THE OPERATING NUT. OPERATORS SHALL BE TRAVELING NUT TYPE. THE TOTAL NUMBER OF TURNS APPLIED TO THE WRENCH NUT REQUIRED TO COMPLETELY OPEN (CLOSE) THE VALVE FROM COMPLETELY CLOSED (OPEN) POSITION SHALL BE NOT LESS THAN TWICE THE NOMINAL VALVE DIAMETER IN INCHES FOR VALVES LESS THAN 16 INCHES IN DIAMETER AND SHALL BE NOT LESS THAN 30 TURNS FOR 16 INCH AND LARGER VALVES. ALL OPERATORS SHALL BE FOR LEFT-HAND (COUNTER CLOCKWISE) OPENING.

APPROVED BUTTERFLY VALVES ARE: DEZURIK-250B, MUELLER LINESEAL XP11-250B, HENRY PRATT COMPANY-MODEL HP-2501I, AND KENNEDY CLASS 250B.

VALVE BOXES SHALL BE EQUAL TO F-2450 SERIES AS MANUFACTURED BY CLOW CORP OR SIGMA CORPORATION VB261-8. VALVE BOX ASSEMBLY SHALL BE OF CAST IRON WITH STAY PUT COVER AND PROPERLY SIZED BASE FOR THE VALVE BEING FITTED. COVER SHALL BE MARKED "WATER". ALL BOXES SHALL BE FURNISHED WITH THE NECESSARY EXTENSIONS TO BRING THE TOP OF THE BOX TO THE FINISHED GRADE.

WATER SERVICE, FITTINGS, AND METER SETTING

DIRECT TAPS ARE TO BE USED FOR 3/4" CONNECTIONS, TAPPING SADDLES ARE TO BE USED FOR CONNECTIONS LARGER THAN 3/4". TAPPING SADDLES SHALL BE MANUFACTURED FOR THE FORD METER BOX COMPANY STYLE 202BS WITH STAINLESS STEEL STRAP AND BRASS BODY WITH CC THREAD OUTLET.

CORPORATION STOPS - APPROVED CORPORATION STOPS SHALL BE:
3/4" AND 1" - FORD METER BOX COMPANY F1000-3-G-NL
1 1/2" - FORD METER BOX COMPANY FB1000-6-G-NL
2" - FORD METER BOX COMPANY FB1000-7-G-NL OR APPROVED EQUAL.

WATER SERVICE LINES, WHICH EXTEND FROM THE WATER MAIN TO 3' BEYOND THE METER, SHALL BE TYPE "K" COPPER CONFORMING TO ASTM B-88 SPECIFICATIONS.

METER BOXES SHALL BE:
3/4" METER - OLD CASTLE HEAVY WALL METER PIT 0020-30 B BODY B-W 2 MSHI
1" METER - OLD CASTLE HEAVY WALL METER PIT 0020-30 BODY B-W 2 MSHI
1 1/2" AND 2" - OLD CASTLE HEAVY WALL METER PIT 0030-30 B BODY B-W 2 MSHI

ALL METERS USED IN THE CLERMONT COUNTY WATER RESOURCES DEPARTMENT DISTRIBUTION SYSTEM MUST BE PURCHASED FROM THE WATER RESOURCES DEPARTMENT AND INSTALLED ACCORDING TO THE WATER RESOURCES DEPARTMENT STANDARD DRAWINGS. WHERE EXISTING WATER SERVICES ARE BEING RELOCATED OR RECONNECTED, THE EXISTING WATER METER CAN BE RE-USED.

ANGLE VALVES FOR RELOCATED 3/8" X 3/4" AND 1" WATER METERS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND INSTALLED ACCORDING TO THE CLERMONT COUNTY WATER RESOURCES DEPARTMENT STANDARD DRAWINGS:

Table with 3 columns: METER SIZE, ANGLED YOKE VALVE, W/ PADLOCK WING, ANGLED CHECK VALVE. Rows include 3/8" x 3/4" and 1" meter sizes.

THE EXISTING WATER METER, YOKE AND EXPANSION WHEEL ASSEMBLY SHALL BE RE-USED AND RE-INSTALLED BY THE CONTRACTOR.

METER ASSEMBLIES FOR 1 1/2" and 2" DOMESTIC METERS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND INSTALLED ACCORDING TO CLERMONT COUNTY WATER RESOURCES DEPARTMENT STANDARD DRAWINGS: 1 1/2" METERS - FORD VH76-18-11-66-G-NL, 2" METERS - FORD VH77-18-11-77-G-NL.

COMPRESSION FITTINGS USED FOR RELOCATED AND RECONNECTED WATER METERS SHALL BE FORD GRIP JOINT COUPLING (C44-XX-G-NL STYLE), FORD PACK JOINT COUPLING (C44-XX-NL STYLE), OR APPROVED EQUAL.

CONTRACTOR MUST SUBMIT LITERATURE AND/OR CATALOG CUT SHEETS FOR REVIEW AND APPROVAL PRIOR TO ORDERING OF ALL MATERIAL AND FITTINGS TO BE USED ASSOCIATED WITH THE INSTALLATION OF 2" AND SMALLER SINGLE, DOMESTIC WATER SERVICES.

SUBMIT LITERATURE DETAILING THE CONSTRUCTION METHOD TO BE USED TO PROVIDE TRENCHLESS INSTALLATION OF WATER SERVICES FOR REVIEW AND APPROVAL. TRENCHLESS SERVICE LINE INSTALLATION IS REQUIRED FOR ALL SERVICES CROSSING PUBLIC ROADWAYS.

UTILITY CONTACTS

WATER & SEWER: DUKE ENERGY, CLERMONT COUNTY WATER RESOURCES DEPARTMENT, 139 E. 4TH ST., ROOM 460A, CINCINNATI, OHIO 45202, (513) 287-2202, kirk.dube@duke-energy.com

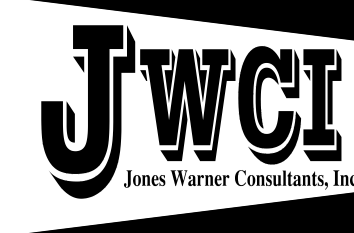
TELEPHONE: ALTA FIBER, ATTN: MR. TIM SEESTEDT, 221 EAST 4TH ST., BLDG. 121-900, P.O. BOX 2301, CINCINNATI, OHIO 45201-2301, (513) 565-7163, tim.seestedt@cinbell.com

ELECTRIC: DUKE ENERGY, ATTN: MR. HARRY D. KINCAID, 139 E. 4TH ST., ROOM 467A, CINCINNATI, OHIO 45202, (513) 287-2934, harry.kincaid@duke-energy.com

GAS: DUKE ENERGY, ATTN: MR. KIRK DUBE, 139 E. 4TH ST., ROOM 460A, CINCINNATI, OHIO 45202, (513) 287-2202, kirk.dube@duke-energy.com

CABLE: CHARTER COMMUNICATIONS, ATTN: MR. JIM O'REILLY, 10920 KENWOOD ROAD, BLUE ASH, OHIO 45242, (513) 386-5483, jim.oreilly@charter.com, DL-Southern-Ohio-Outside-Plant@charter.com

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PRELIMINARY

Project information: STONELOCK HILLS WATER PETITION PROJECT, PROJECT NO. 6401-60222, PREPARED FOR CLERMONT COUNTY WATER RESOURCES DEPARTMENT, 4400 HASKELL LANE, BATAVIA, OH. 45103. PROJECT LOCATION: STONELOCK HILLS DRIVE AND STONELOCK WILLIAMS CORNER RD, STONELOCK TOWNSHIP, CLERMONT COUNTY.

Project ID: 22-041 STONELOCK HILLS WATER PETITION
Drawing Scale(s): N.T.S.

Title:

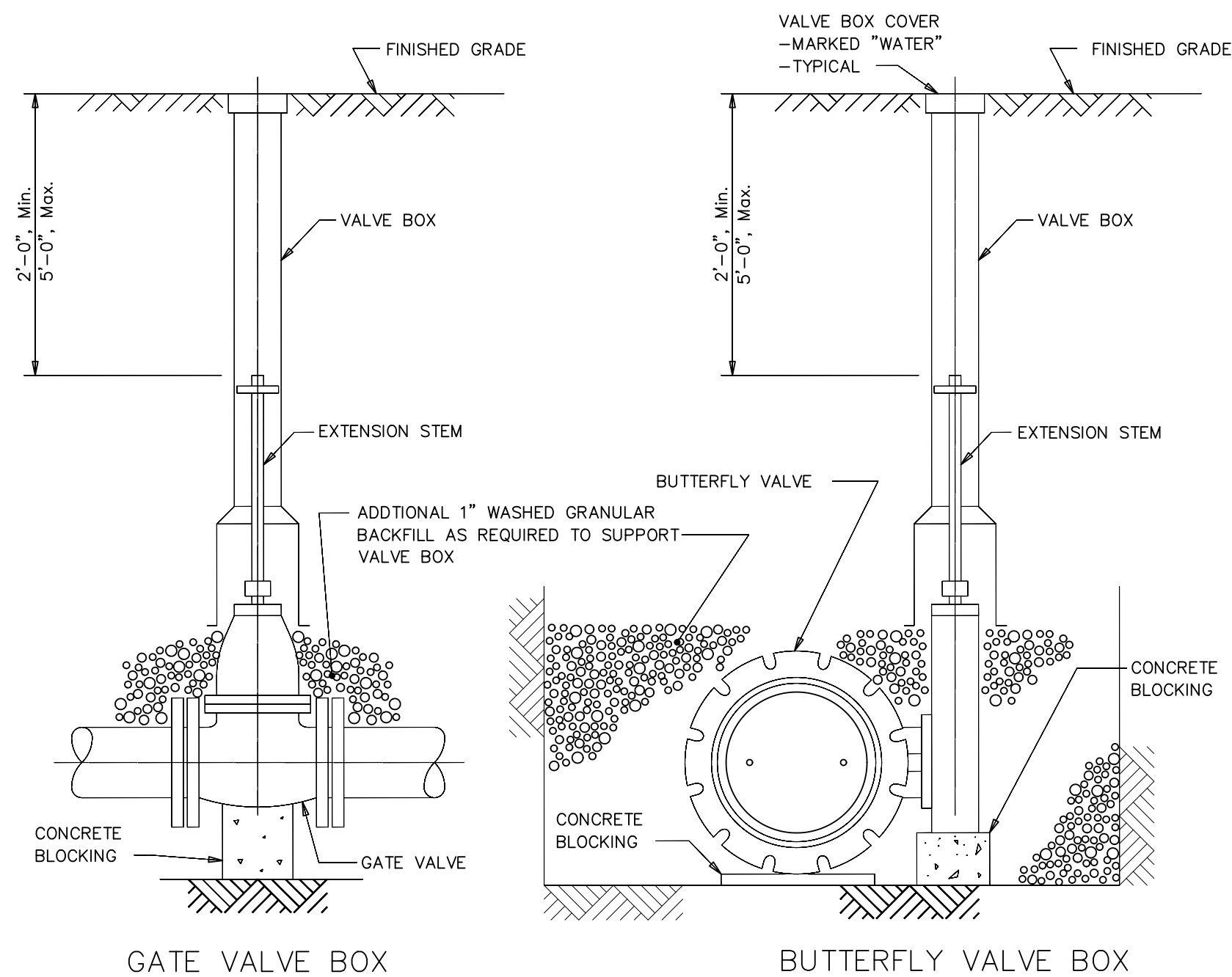
GENERAL NOTES

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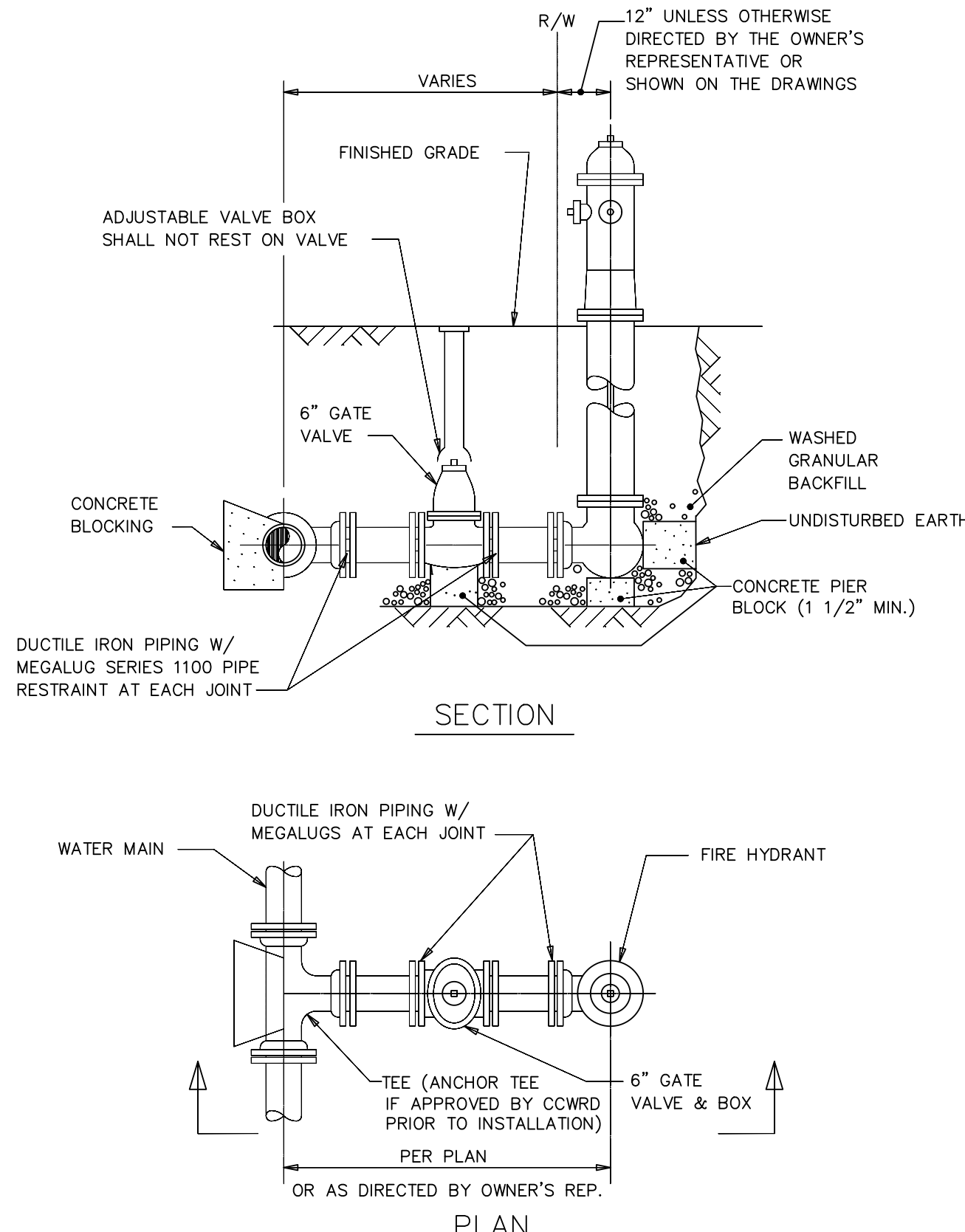
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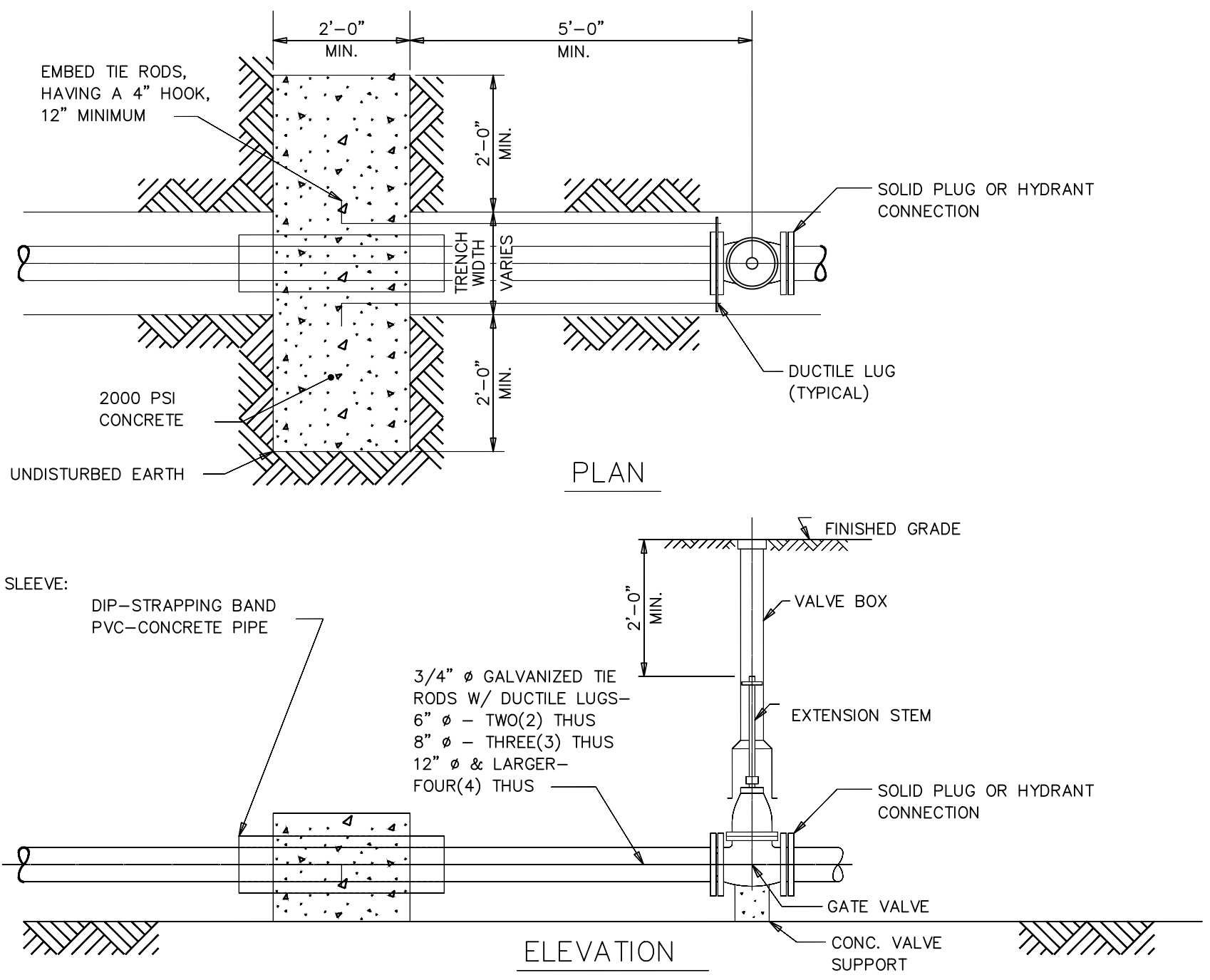
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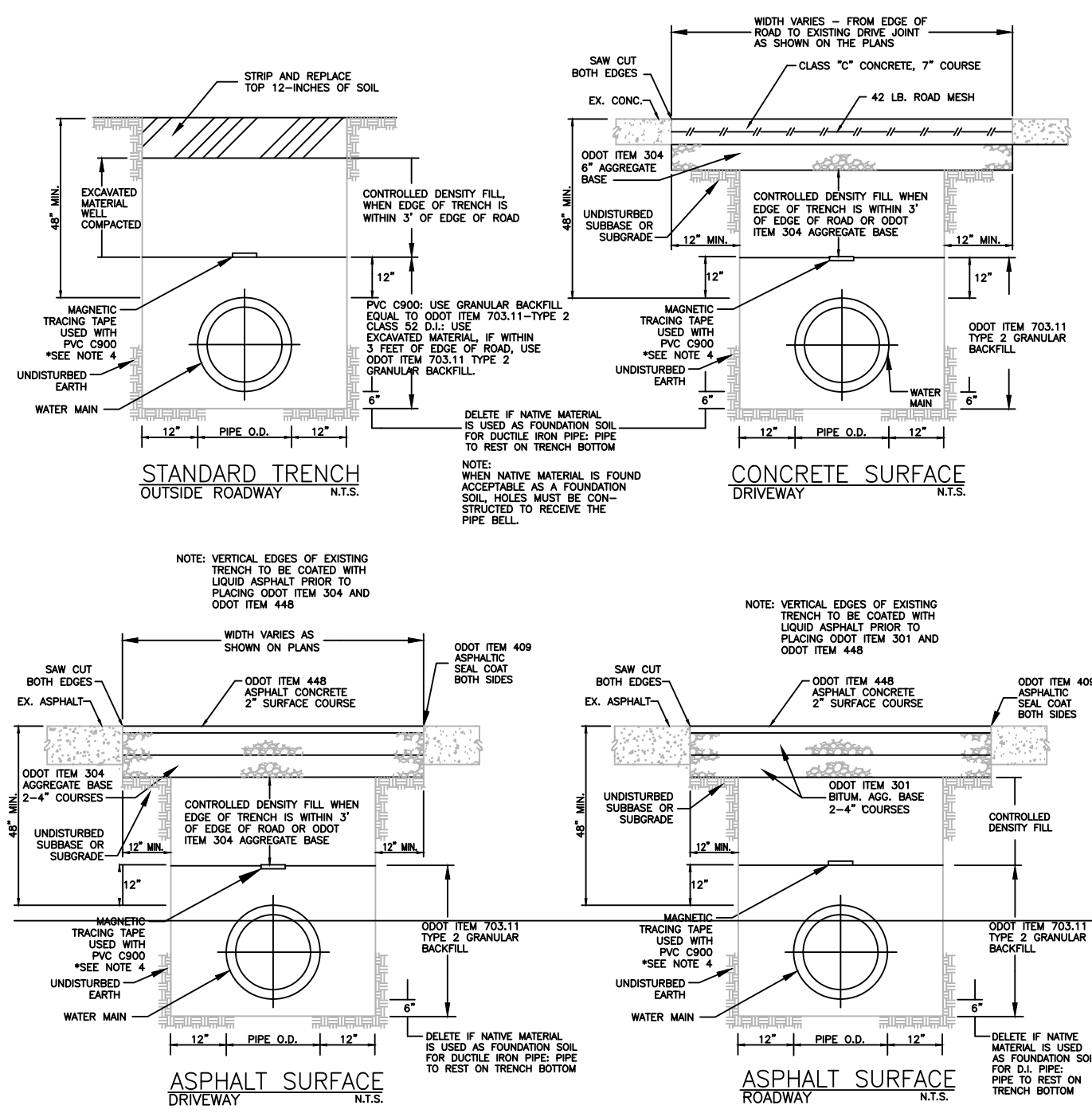
**GATE & BUTTERFLY VALVES**  
**DETAIL W1.1**  
NO SCALE



**FIRE HYDRANT LAYOUT & ASSEMBLY**  
**DETAIL W2.1**  
NO SCALE



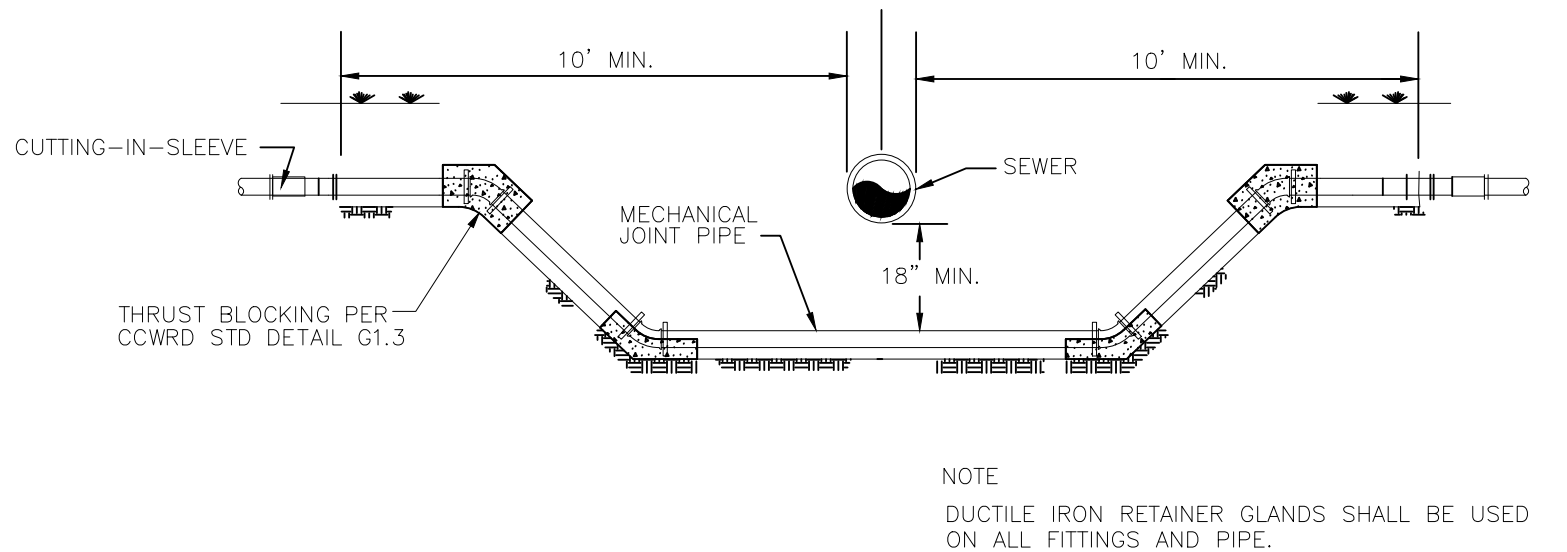
**VALVE RESTRAINT BLOCKING**  
**DETAIL W1.2**  
NO SCALE



**NOTES:**

- "PAVEMENT" AS USED IN THIS DETAIL SHALL ALSO MEAN SIDEWALKS, CURBS, SLABS & OTHER GRADED STRUCTURES.
- ALL BACKFILL & BEDDING IS TO BE COMPACTED AS CALLED FOR IN THE SPECIFICATIONS.
- BEDDING AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR THE SPECIFIC PIPE MATERIAL BEING INSTALLED.
- IN ADDITION TO MAGNETIC TRACER TAPE, ALL PVC WATER MAIN SHALL INCLUDE A TRACER WIRE SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 2120 OF THE CCWRD STANDARD SPECIFICATIONS
- 5.6' LONG CLAY BULKHEADS TO BE INSTALLED AROUND PIPE EVERY 100' IN ACCORDANCE WITH SECTION 1200 OF THE CCWRD SPECIFICATIONS.

**WATER MAIN TRENCH SECTIONS**  
**DETAIL W5.1**  
NO SCALE



**WATER MAIN LOWERING DETAIL**  
**DETAIL W5.2**  
NO SCALE

**CIVIL ENGINEER**

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REVISIONS / CHANGES TO DRAWING SET	
No.	Description of revisions and/or changes to drawing set
1	
2	
3	
4	
5	
6	

Seal: DESIGN: CLM  
DRAWN: DES  
REVIEW: JRZ

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**PRELIMINARY**

**STONELOCK HILLS**  
**WATER PETITION PROJECT**  
**PROJECT NO. 6401-60222**

PREPARED FOR  
CLERMONT COUNTY WATER RESOURCES DEPARTMENT  
4400 HASKELL LANE  
BATAVIA, OH. 45103

PROJECT LOCATION  
STONELOCK HILLS DRIVE AND STONELOCK WILLIAMS CORNER RD  
STONELOCK TOWNSHIP, CLERMONT COUNTY

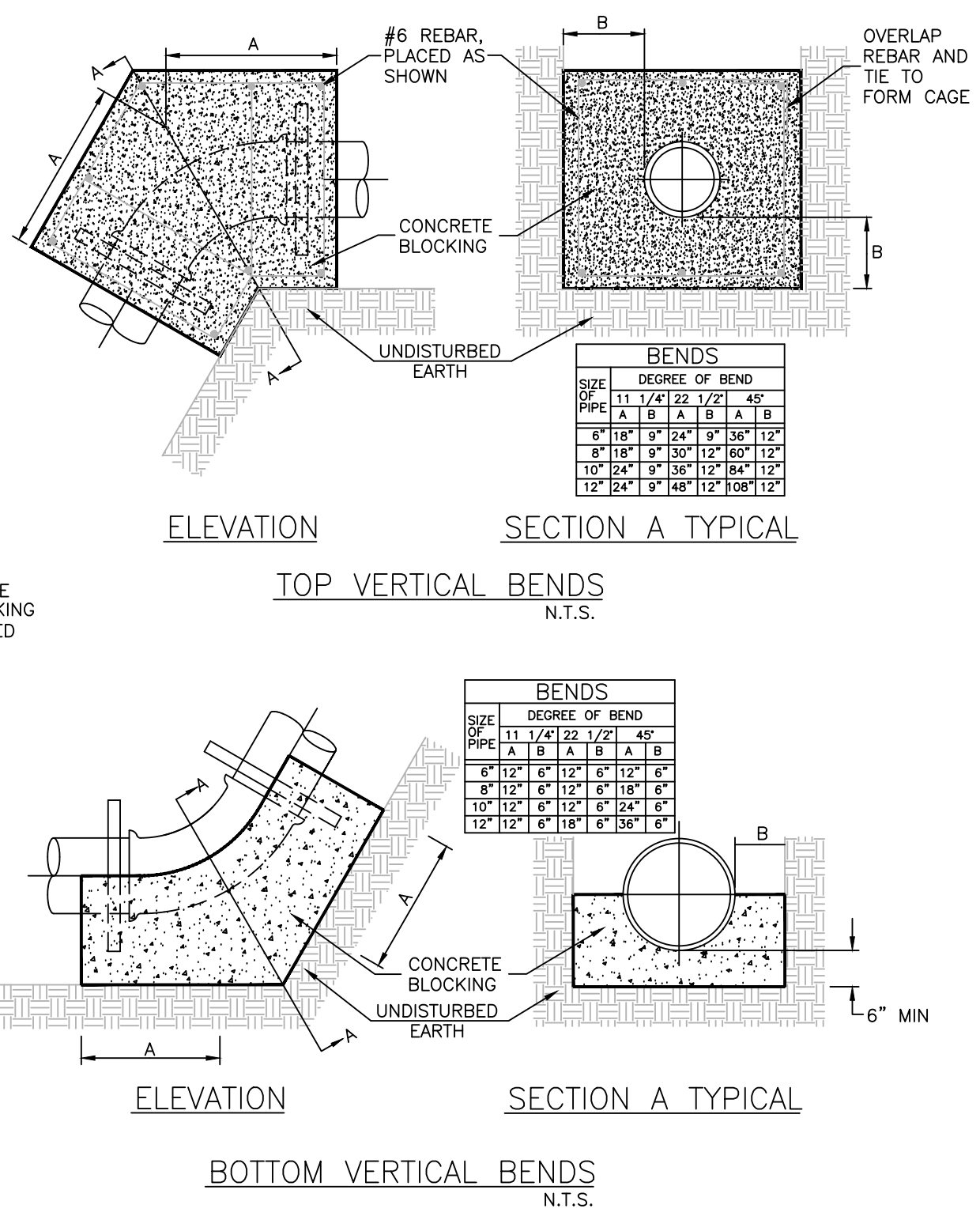
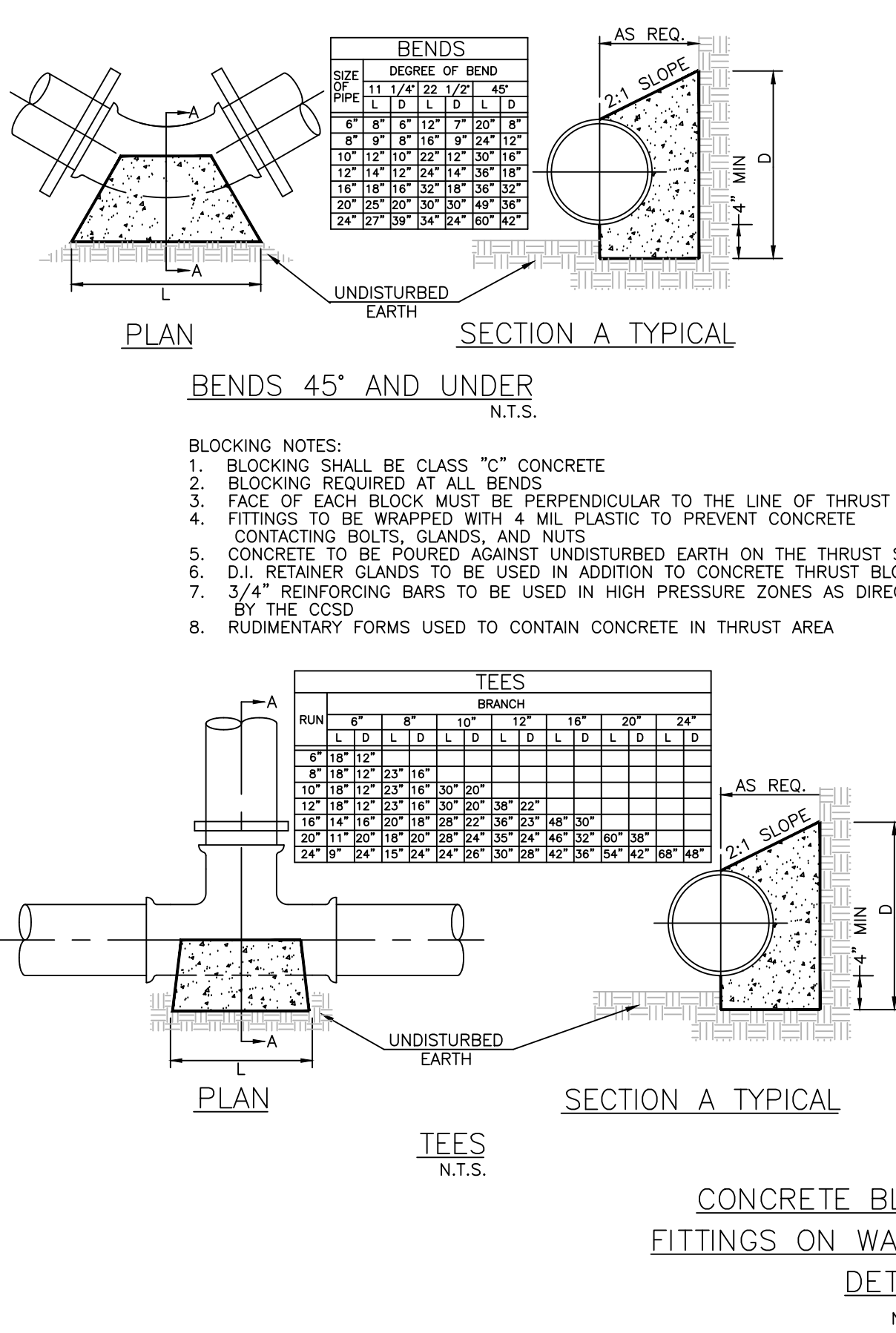
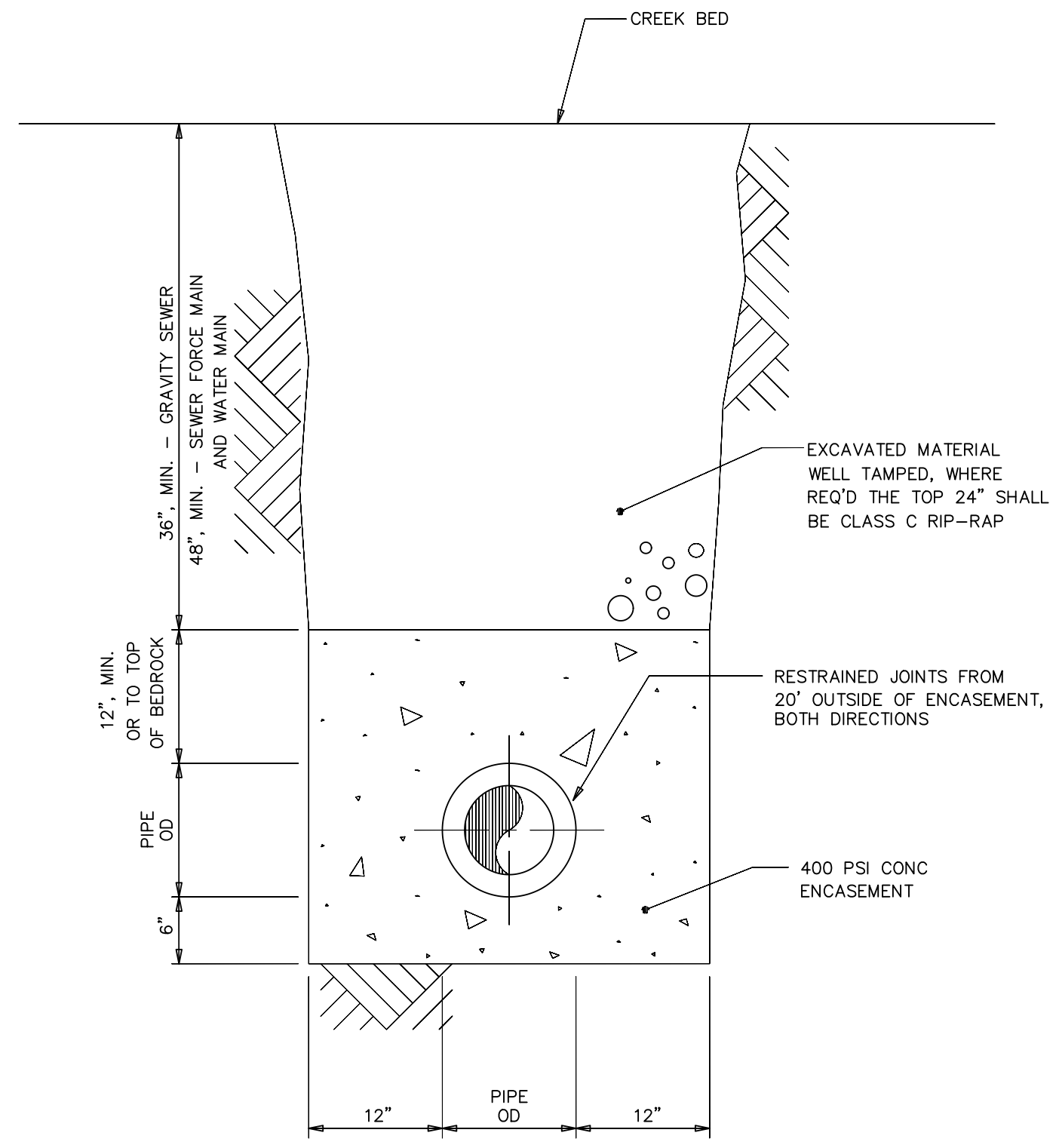
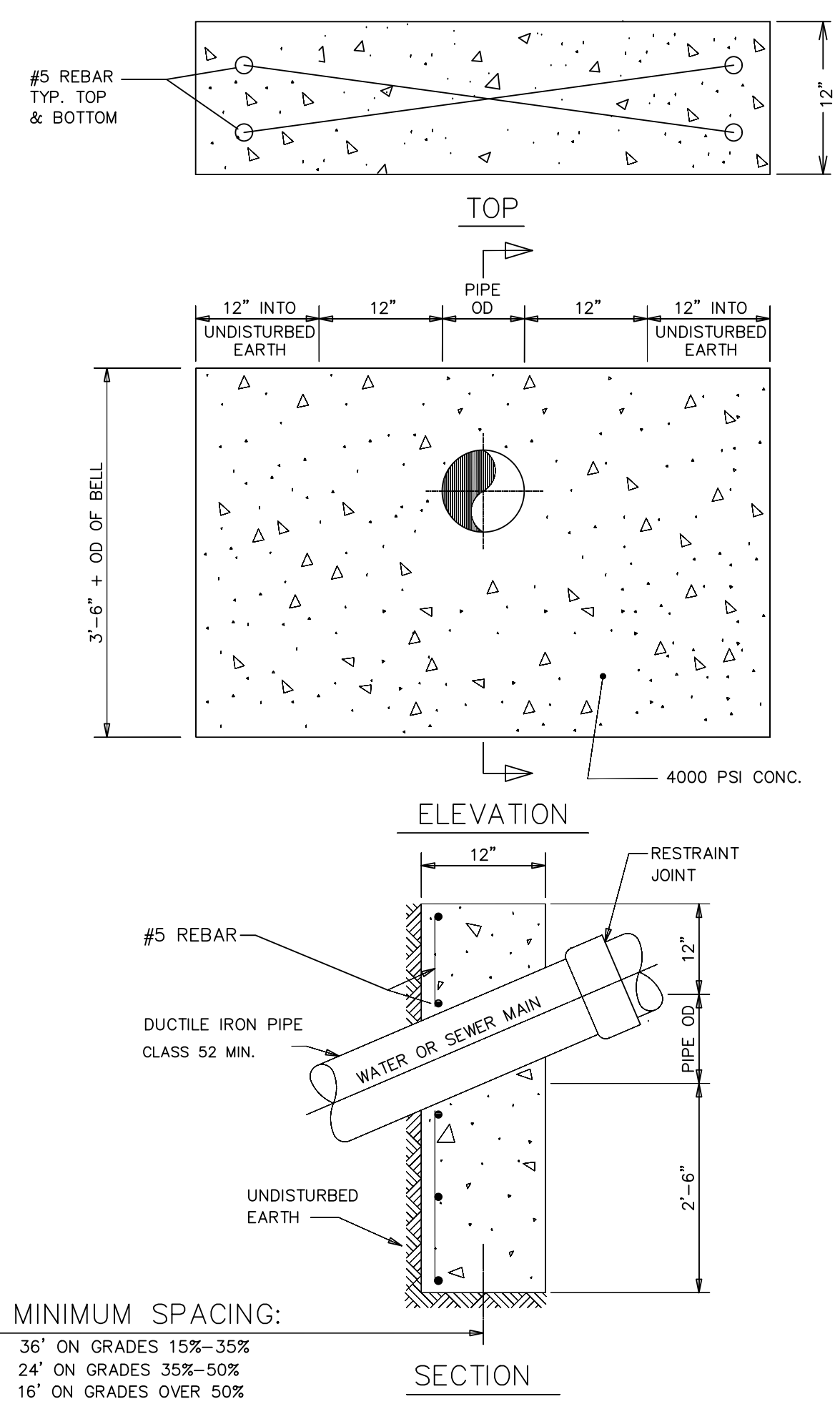
Project ID:  
**22-041 STONELOCK HILLS WATER PETITION**

Drawing Scale(s):  
N.T.S.

Title:  
**DETAILS**

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 PLOTTED BY: CMILLER  
 PLOT DATE: Nov 27, 2017 - 03:25 PM



# SEDIMENT AND EROSION CONTROL

**PRESERVING EXISTING VEGETATION**

- WHENEVER POSSIBLE, PRESERVE EXISTING TREES, SHRUBS, AND OTHER VEGETATION.
- TO PREVENT ROOT DAMAGE, DO NOT GRADE, PLACE SOIL PILES, OR PARK VEHICLES NEAR TREES MARKED FOR PRESERVATION.

**SILT FENCE & STRAW BALES**

- PUT UP BEFORE ANY OTHER WORK IS DONE.
- INSTALL ON DOWNSLOPE SIDE(S) OF SITE WITH ENDS EXTENDED UP SIDESLOPES A SHORT DISTANCE.
- PLACE PARALLEL TO THE CONTOUR OF THE LAND TO ALLOW WATER TO POND 6 INCHES DEEP.
- ENTRENCH 6 INCHES DEEP.
- STRAW BALES SHALL BE USED ONLY IN MAJOR DITCH LINES WITH THE APPROVAL OF THE CITY ENGINEER. ALL OTHER LOCATIONS REQUIRE SILT FENCE.
- STAKE (2 STAKES PER BALE OR 1 STAKE EVERY 3 FEET FOR SILT FENCE).
- LEAVE NO GAPS BETWEEN BALES OR SECTIONS OF SILT FENCE.
- INSPECT AND REPAIR ONCE A WEEK AND AFTER EVERY 1/2 INCH RAIN. REMOVE SEDIMENT IF DEPOSITS REACH HALF THE FENCE OR STRAW BALE HEIGHT.
- MAINTAIN UNTIL A LAWN IS ESTABLISHED.

**SOIL PILES**

- LOCATED AWAY FROM ANY DOWNSLOPE STREET, DRIVEWAY, STREAM, LAKE, WETLAND, DITCH OR DRAINAGEWAY.
- TEMPORARY SEED SUCH AS ANNUAL RYE IS RECOMMENDED FOR TOPSOIL PILES.
- SURROUND WITH STRAW BALES OR SILT FENCE.

**GRAVEL DRIVE**

- INSTALL A SINGLE ACCESS DRIVE USING 2" AGGREGATE. PER STANDARD DRAWING 600-11.
- USE TO PREVENT TRACKING DIRT ONTO THE ROAD BY ALL VEHICLES.
- MAINTAIN THROUGHOUT CONSTRUCTION UNTIL DRIVEWAY IS PAVED.
- PARK ALL CONSTRUCTION VEHICLES ON THE STREET AND OFF OF THE SITE.

**SEDIMENT CLEANUP**

- BY THE END OF EACH WORK DAY, SWEEP OR SCRAPE UP SOIL TRACKED ONTO THE ROAD AND IN THE GUTTERS.
- BY THE END OF THE NEXT WORK DAY AFTER A STORM, CLEAN UP SOIL WASHED OFF-SITE, AND CHECK STRAW BALES AND SILT FENCE FOR DAMAGE OR SEDIMENT BUILDUP.

**DOWNSPOUT EXTENDERS**

- NOT REQUIRED, BUT HIGHLY RECOMMENDED.
- INSTALL AS SOON AS GUTTERS AND DOWNSPOUTS ARE COMPLETED.
- ROUTE WATER TO A GRASSED AREA.
- MAINTAIN UNTIL A LAWN IS ESTABLISHED.

**REVEGETATION**

DISTURBED SOILS SHALL BE STABILIZED AS QUICK AS PRACTICABLE WITH TEMPORARY VEGETATION AND / OR MULCHING TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT. TEMPORARY MULCH IS TO BE APPLIED AT THE RATE OF 2-3 BALES OF STRAW PER 1000 SQ. FT.

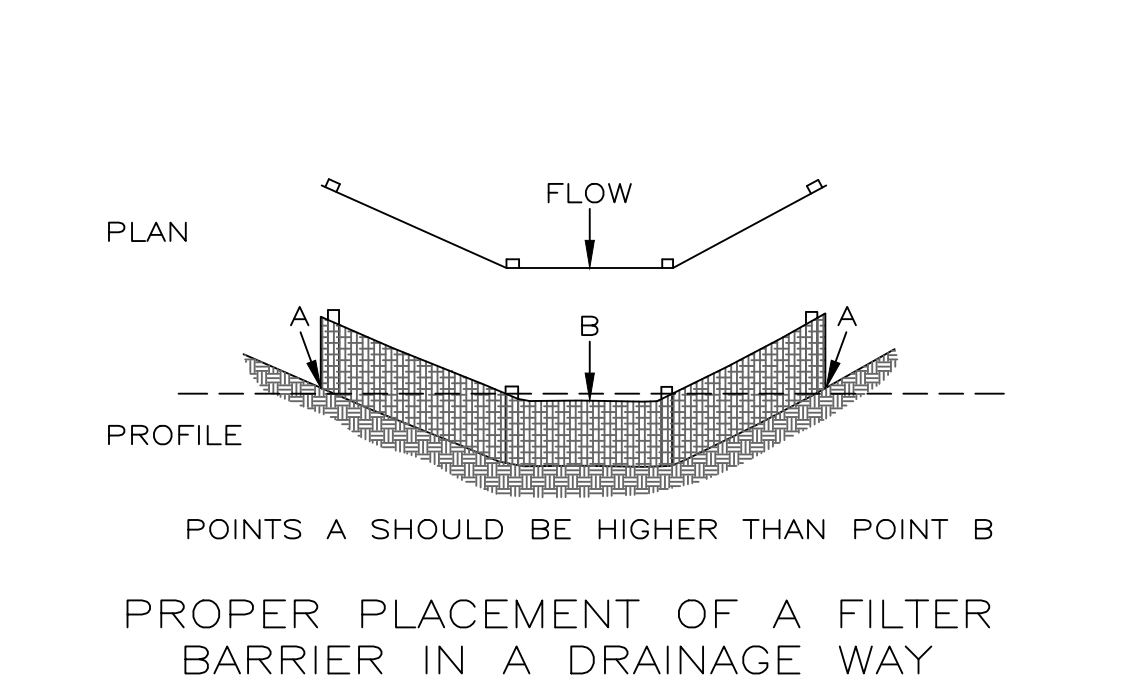
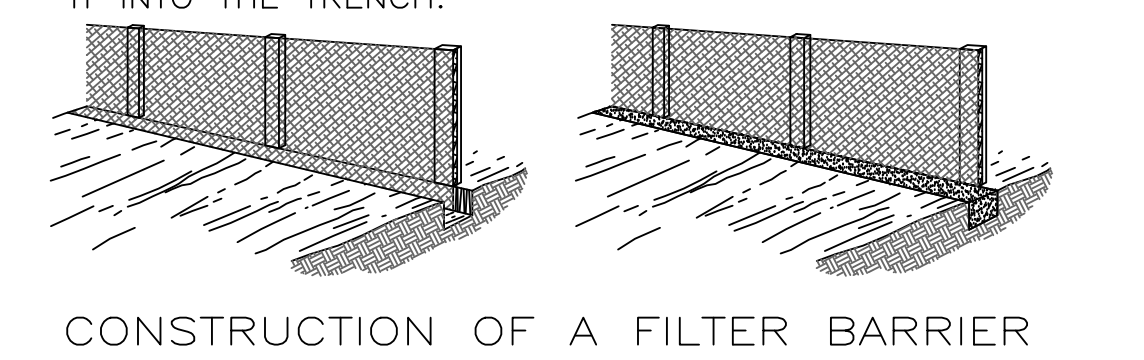
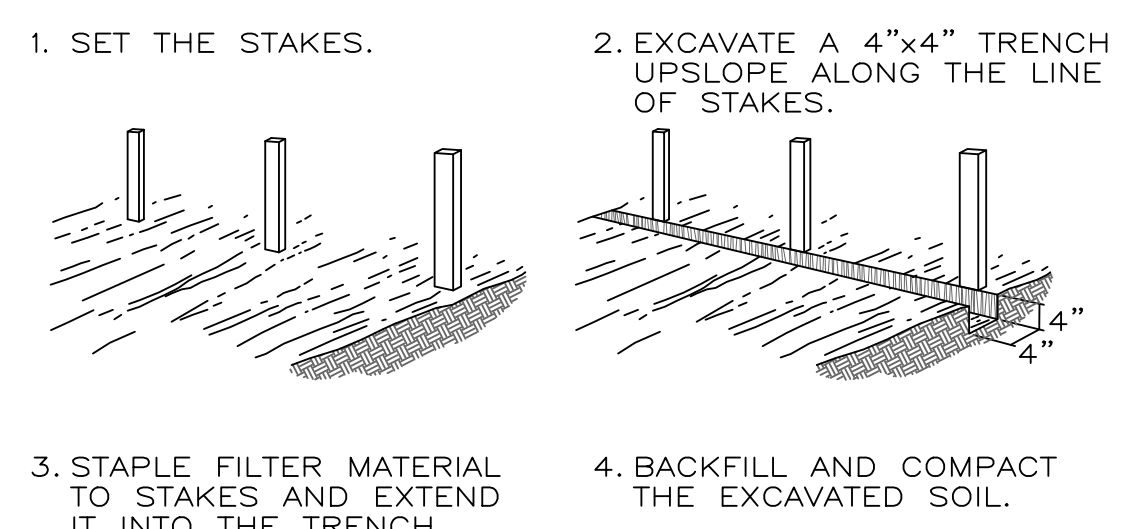
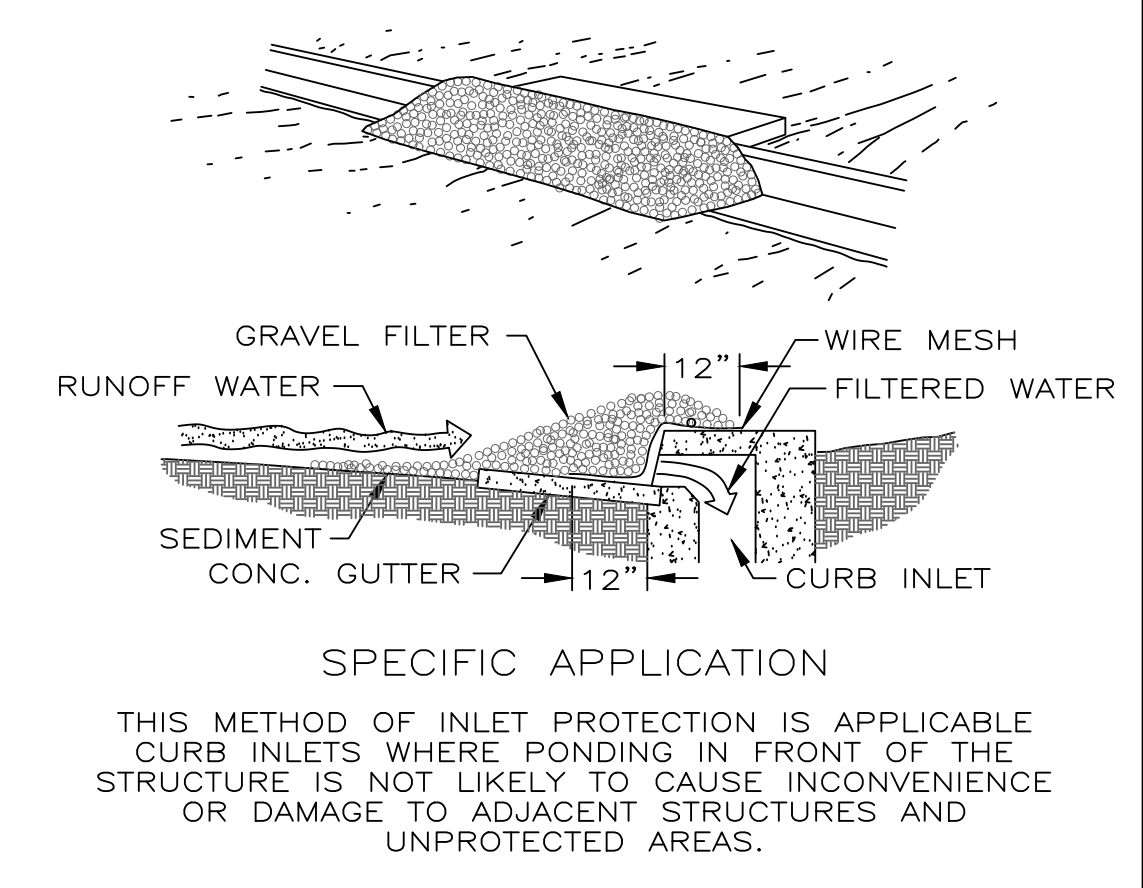
**SEEDING AND MULCHING**

- SPREAD 4 TO 6 INCHES OF TOPSOIL.
- FERTILIZE ACCORDING TO SOIL TEST (OR APPLY 10 LB. / 1000 SQ. FT. OF 20-10-10 OR 10-10-10 FERTILIZER).
- SEED WITH AN APPROPRIATE MIX FOR THE SITE.
- RAKE LIGHTLY TO COVER SEED WITH 1/4" OF SOIL. ROLL LIGHTLY.
- MULCH WITH STRAW (2-3 BALES PER 1000 SQ. FT.) FROM MARCH 15 TO AUGUST 31.
- ANCHOR MULCH BY PUNCHING 2 INCHES INTO THE SOIL WITH A DULL, WEIGHTED DISK OR BY USING NETTING OR OTHER MEASURES ON STEEP SLOPES AND WINDY AREAS.
- WATERING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SUPPLIERS' RECOMMENDATIONS AND/OR UNTIL LAWN IS WELL ESTABLISHED.

**SODDING**

- SPREAD 4 TO 6 INCHES OF TOPSOIL.
- FERTILIZE ACCORDING TO SOIL TEST (OR APPLY 10 LB. / 1000 SQ. FT. OF 20-10-10 OR 10-10-10 FERTILIZER).
- INSTALL SOD IN ACCORDANCE WITH SUPPLIERS' RECOMMENDATIONS.
- WATERING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SUPPLIERS' RECOMMENDATIONS AND/OR UNTIL LAWN IS WELL ESTABLISHED.

IF CONSTRUCTION IS COMPLETED AFTER AUGUST 31, SEEDING OR SODDING MAY BE DELAYED. APPLY MULCH AND TEMPORARY SEED (SUCH AS RYE OR WINTER WHEAT) FROM SEPTEMBER 1 TO MARCH 15. STRAW BALES OR SILT FENCES MUST BE MAINTAINED UNTIL FINAL SEEDING IS COMPLETED IN SPRING, MARCH 15 TO MAY 31.



**CIVIL ENGINEER**

**JWCI**  
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 Fax: (937) 704-9949  
 jwci@joneswarner.com

**PROFESSIONAL ENGINEERS AND SURVEYORS**

**REVISIONS / CHANGES TO DRAWING SET**

No.	Date	Description of revisions and/or changes to drawing set
1		
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5		
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 DRAWN: DES  
 REVIEW: JRZ

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**PRELIMINARY**

**STONELICK HILLS WATER PETITION PROJECT**  
**PROJECT NO. 6401-60222**

PREPARED FOR  
 CLERMONT COUNTY WATER RESOURCES DEPARTMENT  
 4400 HASKELL LANE  
 BATAVIA, OH. 45103

PROJECT LOCATION  
 STONELICK HILLS DRIVE AND STONELICK WILLIAMS CORNER RD  
 STONELICK TOWNSHIP, CLERMONT COUNTY

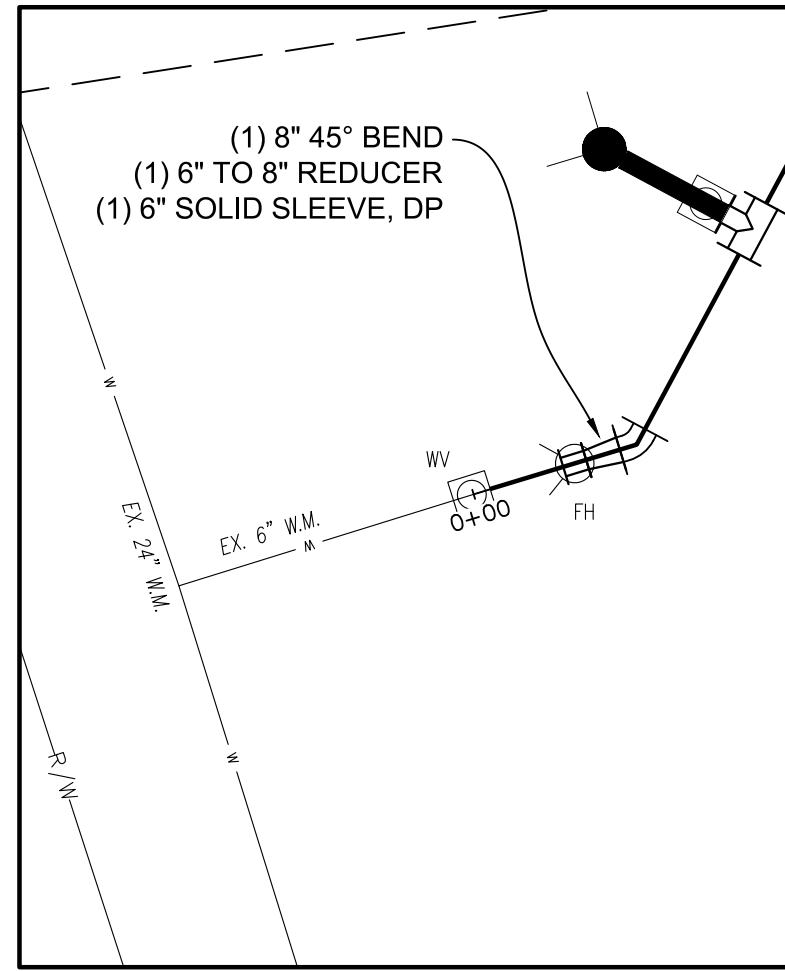
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 22-041 STONELICK HILLS WATER PETITION

Drawing Scale(s):  
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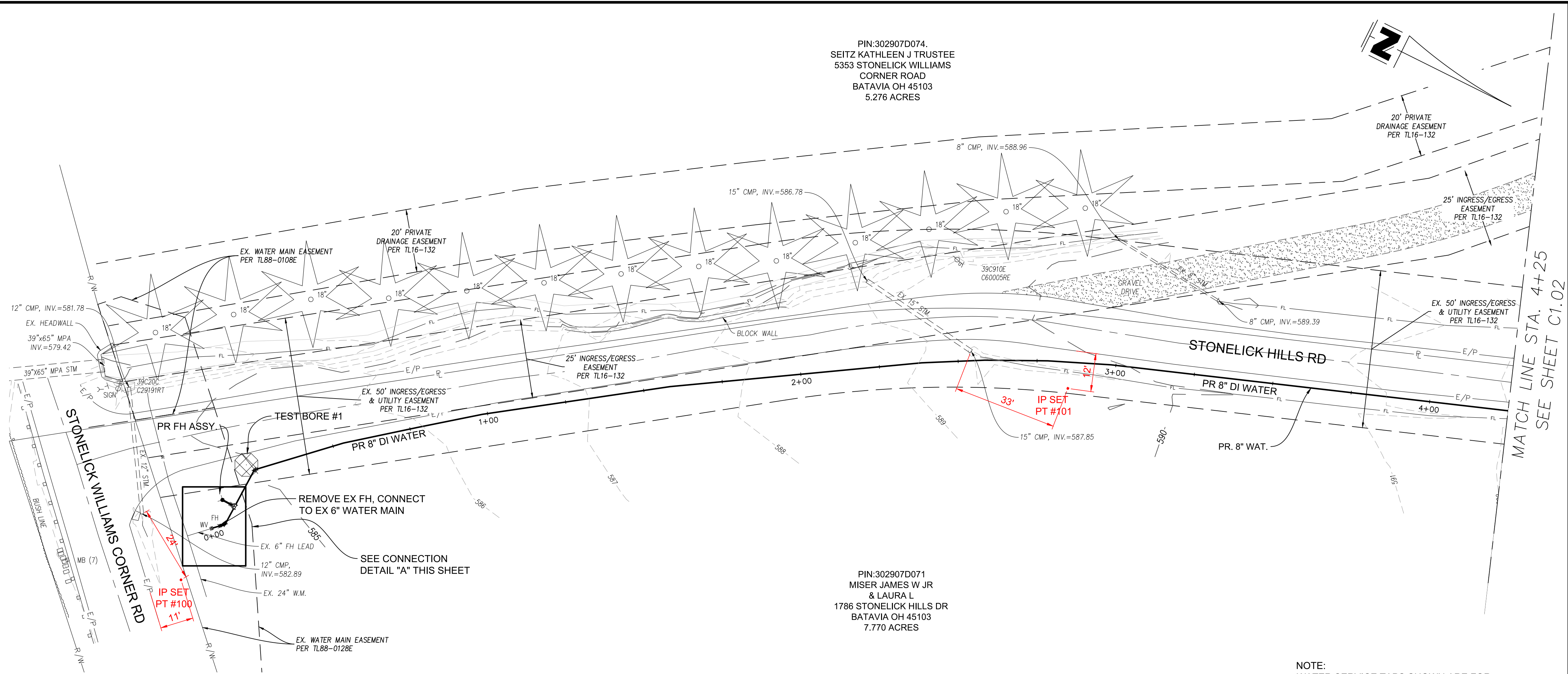
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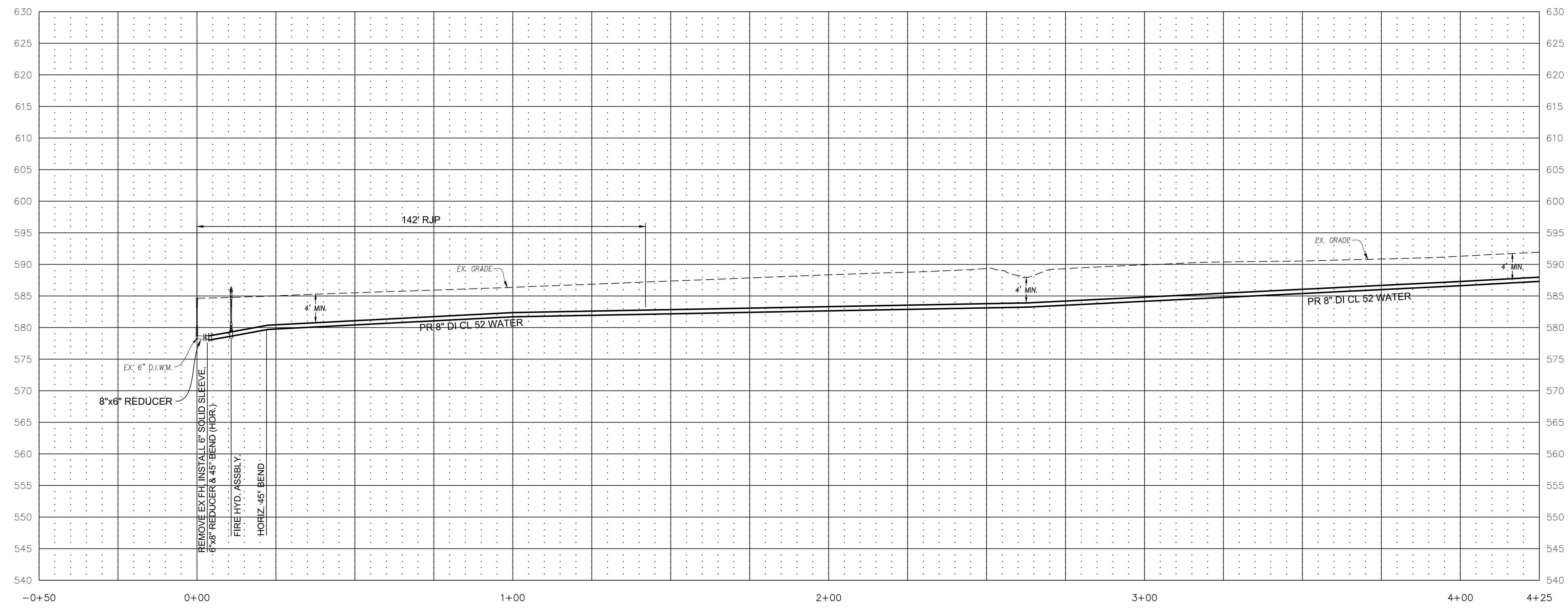
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DETAIL "A"  
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PIN:302907D074.  
SEITZ KATHLEEN J TRUSTEE  
5353 STONELICK WILLIAMS  
CORNER ROAD  
BATAVIA OH 45103  
5.276 ACRES

PIN:302907D071  
MISER JAMES W JR  
& LAURA L  
1786 STONELICK HILLS DR  
BATAVIA OH 45103  
7.770 ACRES

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DRAWN: DES  
REVIEW: JRJ

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**PRELIMINARY**

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PROJECT NO. 6401-60222**

PREPARED FOR  
CLERMONT COUNTY WATER  
RESOURCES DEPARTMENT  
4400 HASKELL LANE  
BATAVIA, OH, 45103

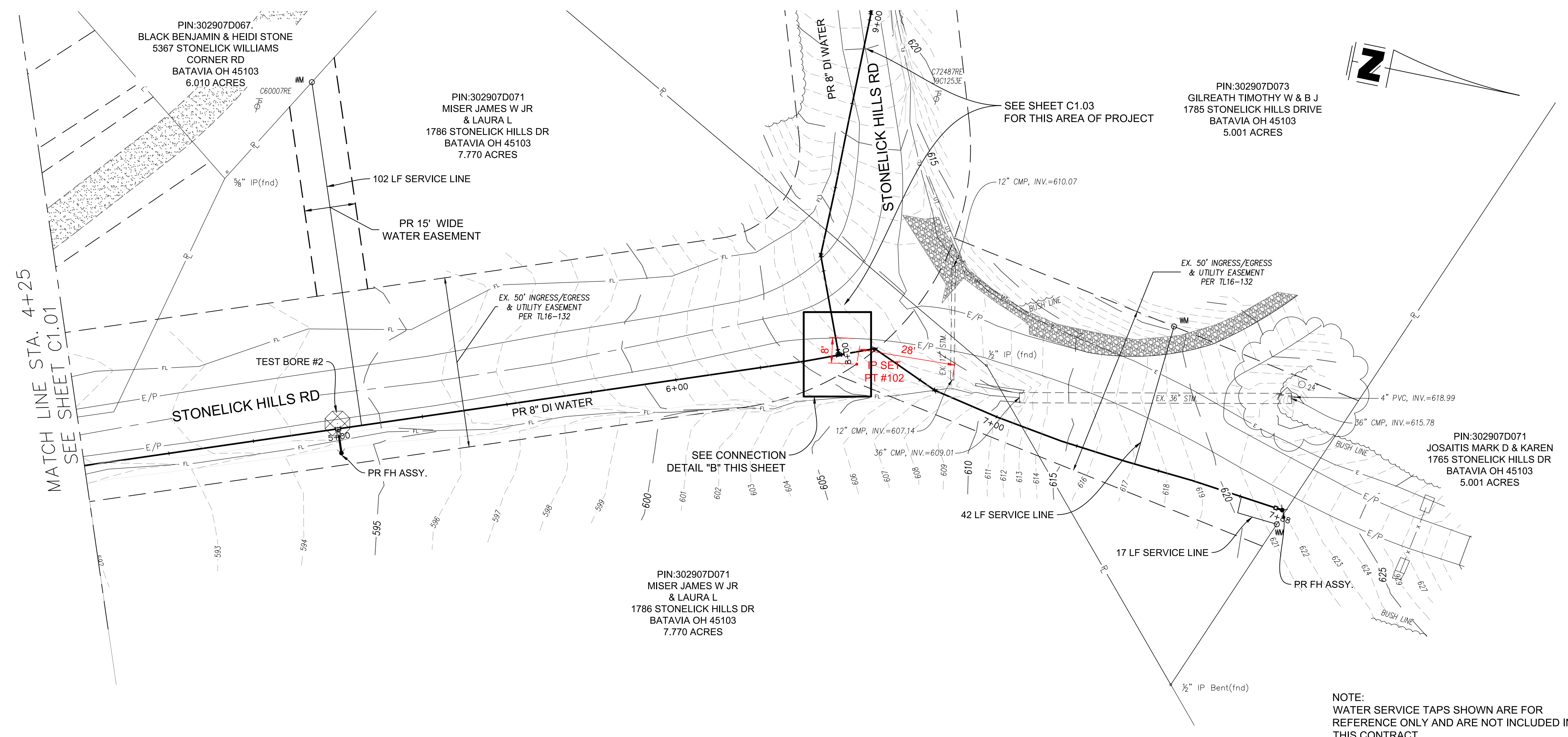
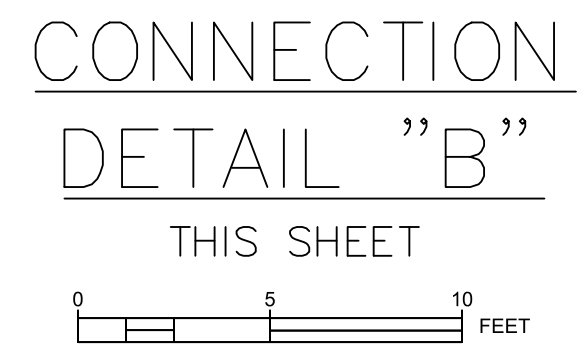
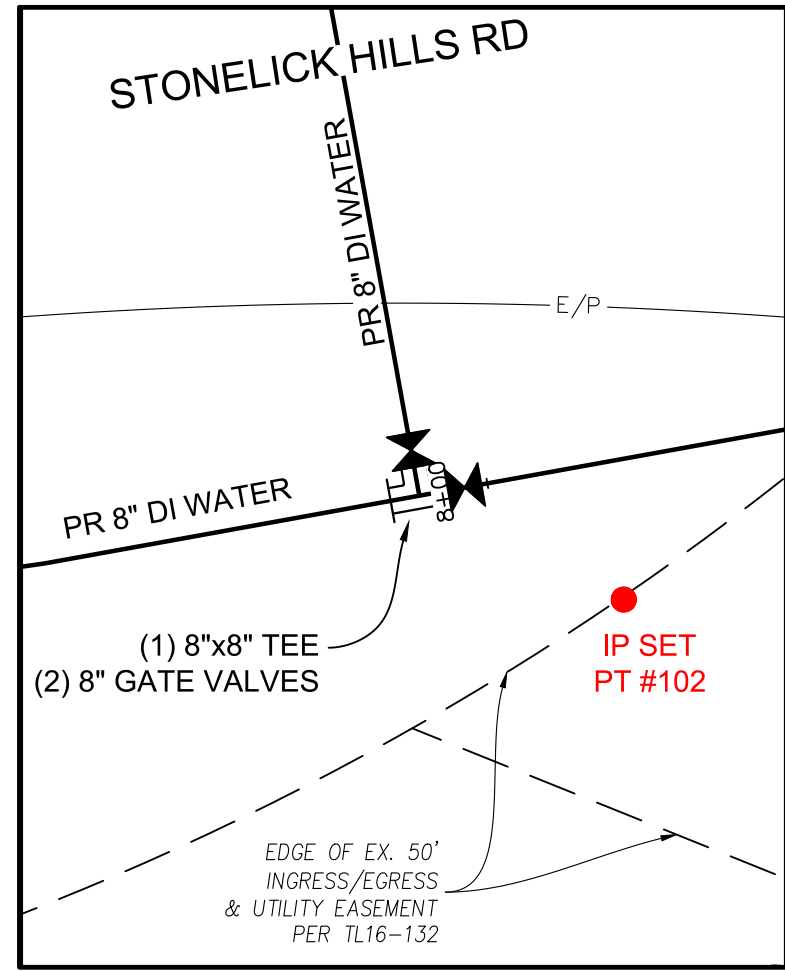
PROJECT LOCATION  
STONELICK HILLS DRIVE AND  
STONELICK WILLIAMS CORNER RD  
STONELICK TOWNSHIP, CLERMONT COUNTY

Project ID:  
22-041 STONELICK HILLS WATER PETITION  
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VERT. 1"=10'

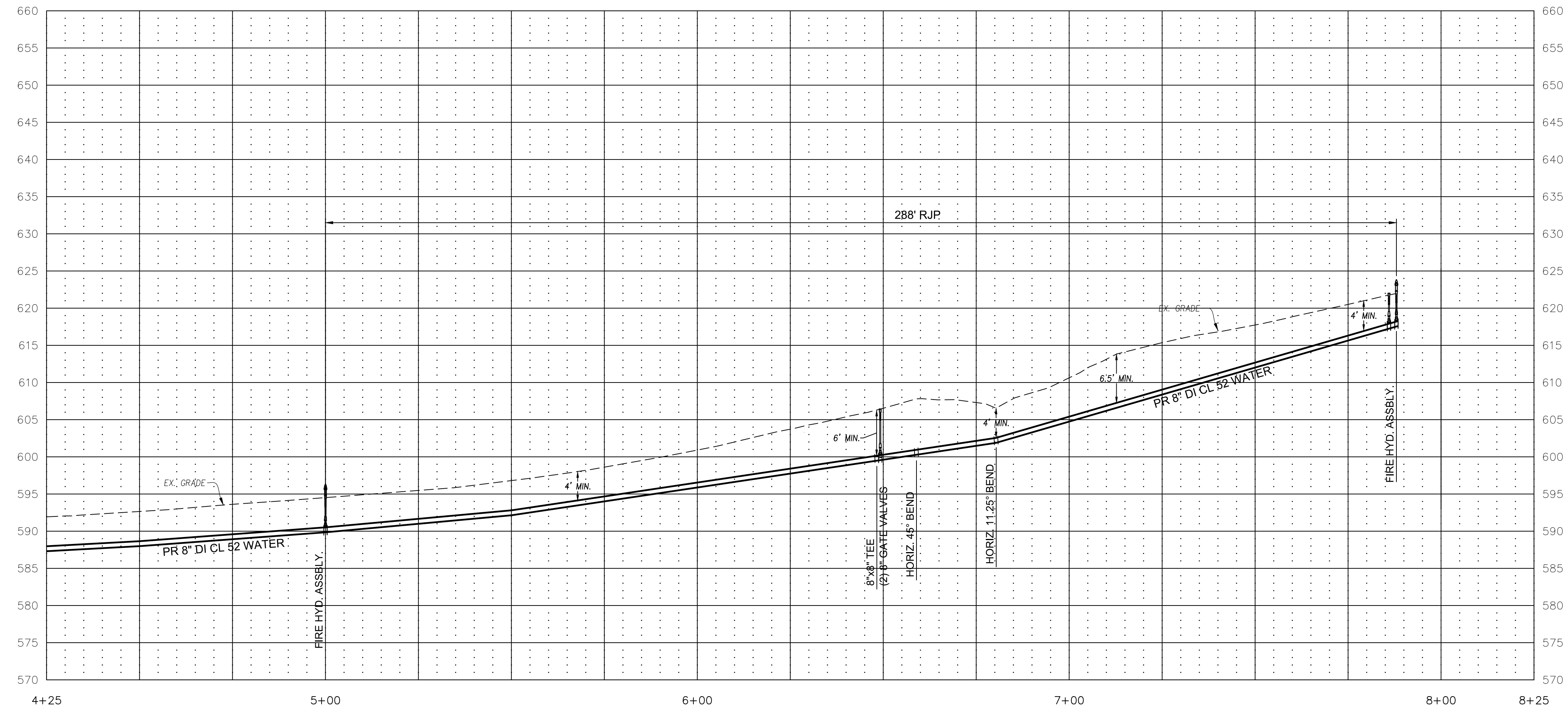
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**PRELIMINARY**

**STONELICK HILLS  
 WATER PETITION PROJECT  
 PROJECT NO. 6401-60222**

PREPARED FOR  
 CLERMONT COUNTY WATER  
 RESOURCES DEPARTMENT  
 4400 HASKELL LANE  
 BATAVIA, OH, 45103

PROJECT LOCATION  
 STONELICK HILLS DRIVE AND  
 STONELICK WILLIAMS CORNER RD  
 STONELICK TOWNSHIP, CLERMONT COUNTY

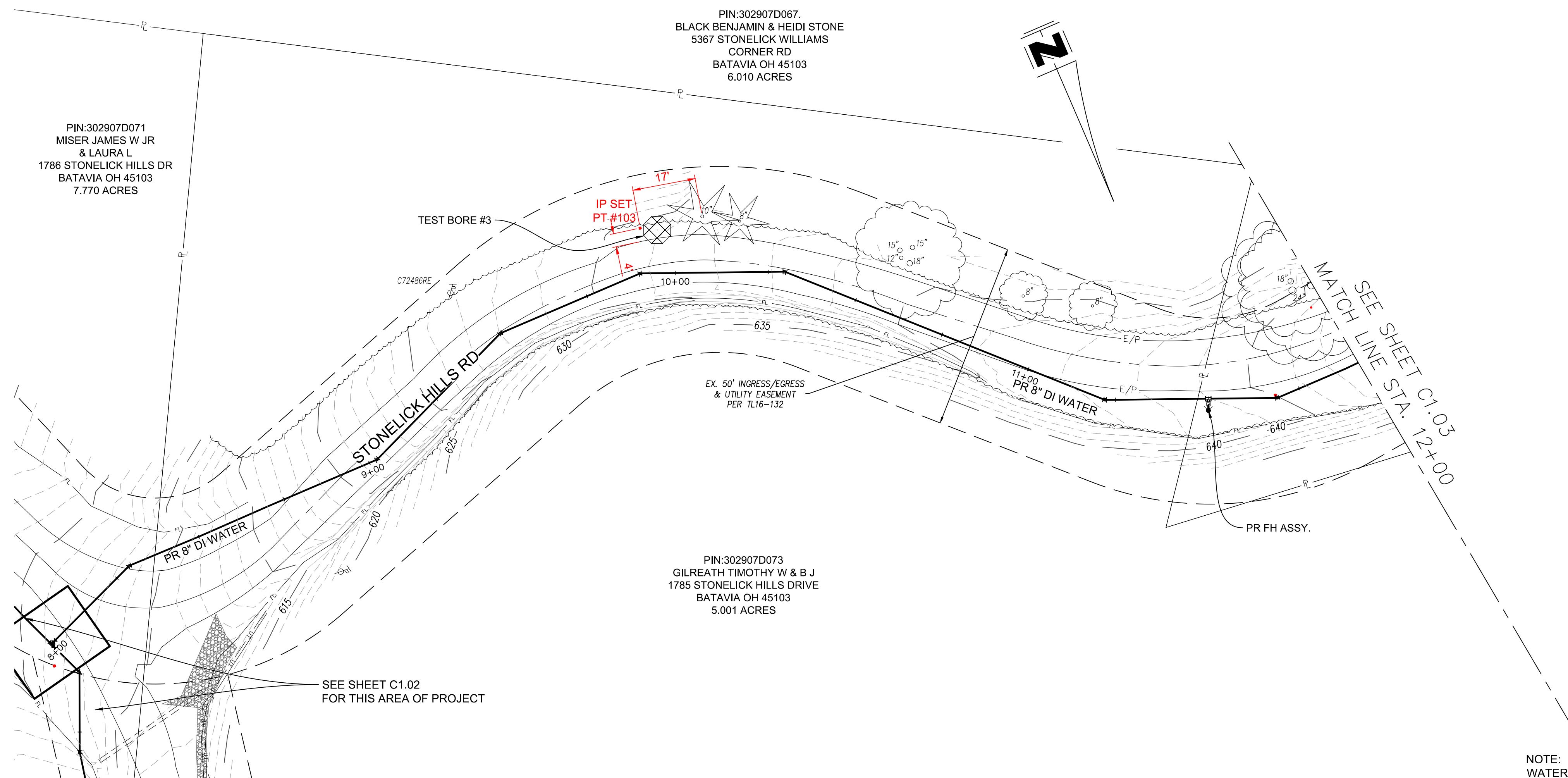
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 22-041 STONELICK HILLS WATER PETITION

Drawing Scale(s):  
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 VERT. 1"=10'

Title:  
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Sheet:  
**C1.02**

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 PLOT DATE: Nov 27, 2017 - 03:25 PM  
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PIN:302907D071  
 MISER JAMES W JR  
 & LAURA L  
 1786 STONELICK HILLS DR  
 BATAVIA OH 45103  
 7.770 ACRES

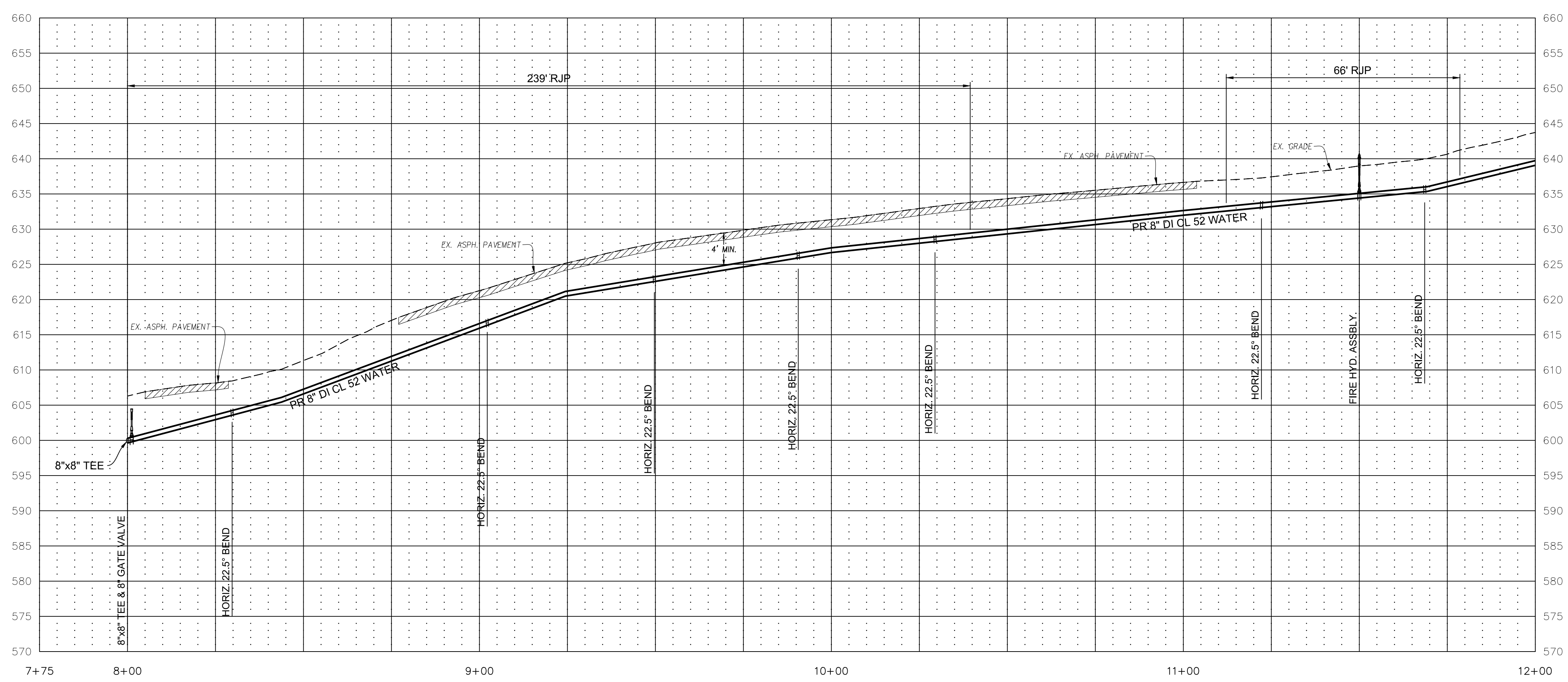
PIN:302907D067.  
 BLACK BENJAMIN & HEIDI STONE  
 5367 STONELICK WILLIAMS  
 CORNER RD  
 BATAVIA OH 45103  
 6.010 ACRES

PIN:302907D073  
 GILREATH TIMOTHY W & B J  
 1785 STONELICK HILLS DRIVE  
 BATAVIA OH 45103  
 5.001 ACRES

SEE SHEET C1.02 FOR THIS AREA OF PROJECT

MATCH LINE STA. 12+00  
SEE SHEET C1.03

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**PROJECT NO. 6401-60222**

PROJECT LOCATION:  
 STONELICK HILLS DRIVE AND STONELICK WILLIAMS CORNER RD  
 STONELICK TOWNSHIP, CLERMONT COUNTY

PREPARED FOR:  
 CLERMONT COUNTY WATER RESOURCES DEPARTMENT  
 4400 HASKELL LANE  
 BATAVIA, OH. 45103

Project ID: 22-041 STONELICK HILLS WATER PETITION  
 Drawing Scale(s): HORIZ. 1"=20'  
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**PLAN AND PROFILE**

Sheet: C1.03



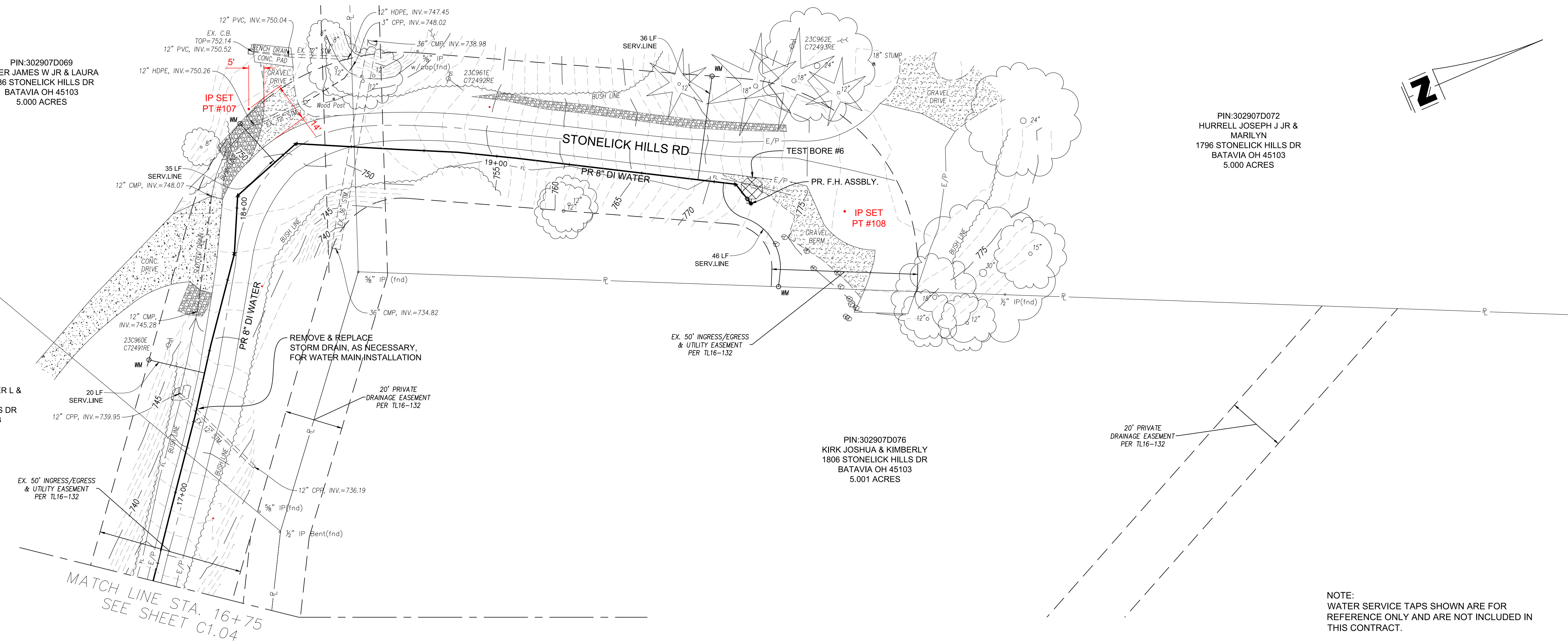
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PIN:302907D069  
 MISER JAMES W JR & LAURA  
 1786 STONELICK HILLS DR  
 BATAVIA OH 45103  
 5.000 ACRES

PIN:302907D070  
 GAVETTE CHRISTOPHER L &  
 JENNIFER PAIGE  
 1776 STONELICK HILLS DR  
 BATAVIA OH 45103  
 5.000 ACRES

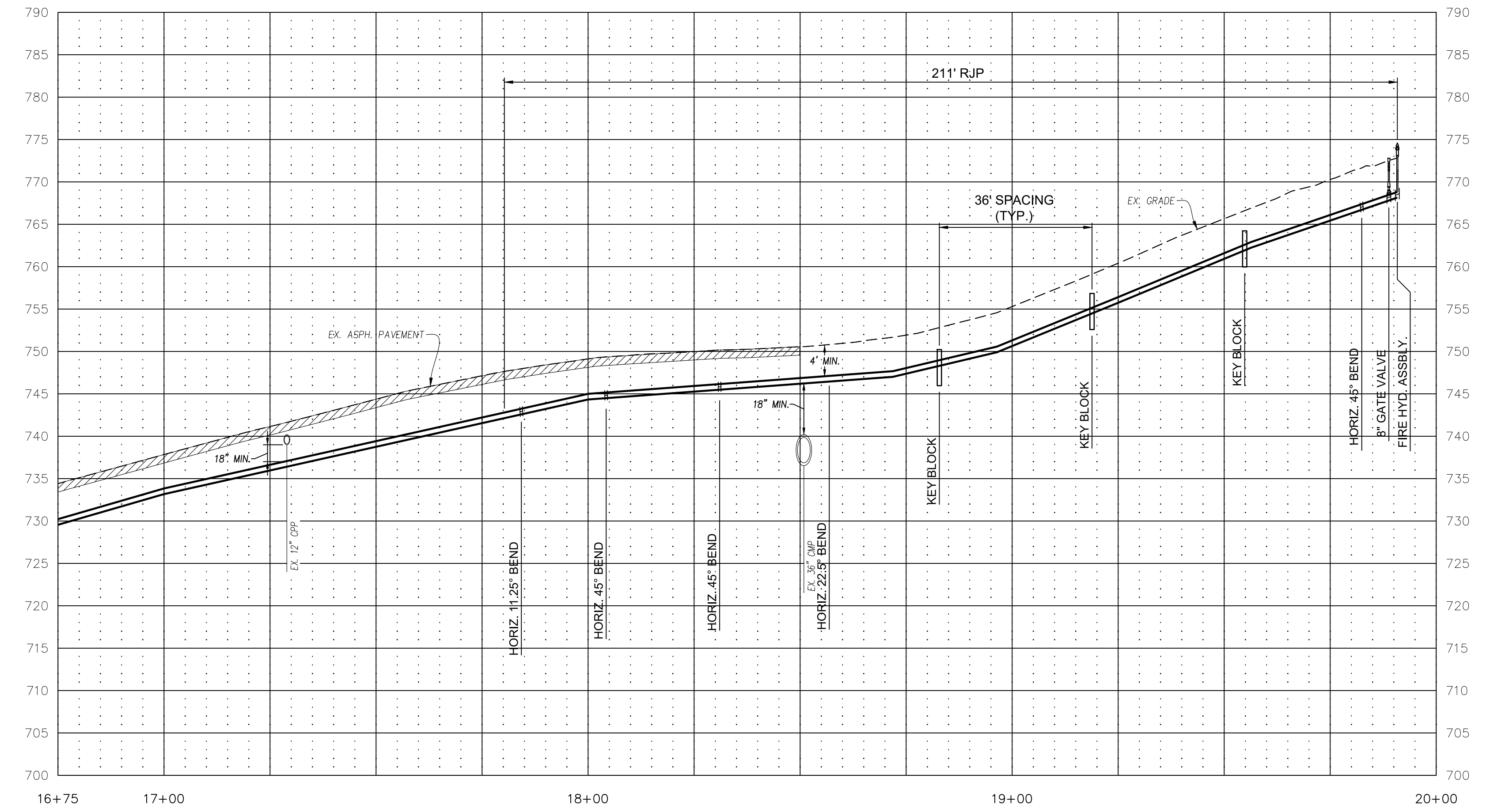
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 KIRK JOSHUA & KIMBERLY  
 1806 STONELICK HILLS DR  
 BATAVIA OH 45103  
 5.001 ACRES

PIN:302907D072  
 HURRELL JOSEPH J JR &  
 MARILYN  
 1796 STONELICK HILLS DR  
 BATAVIA OH 45103  
 5.000 ACRES



MATCH LINE STA. 16+75  
 SEE SHEET C1.04

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Project ID:  
 22-041 STONELICK HILLS WATER PETITION

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Sheet:  
**C1.05**