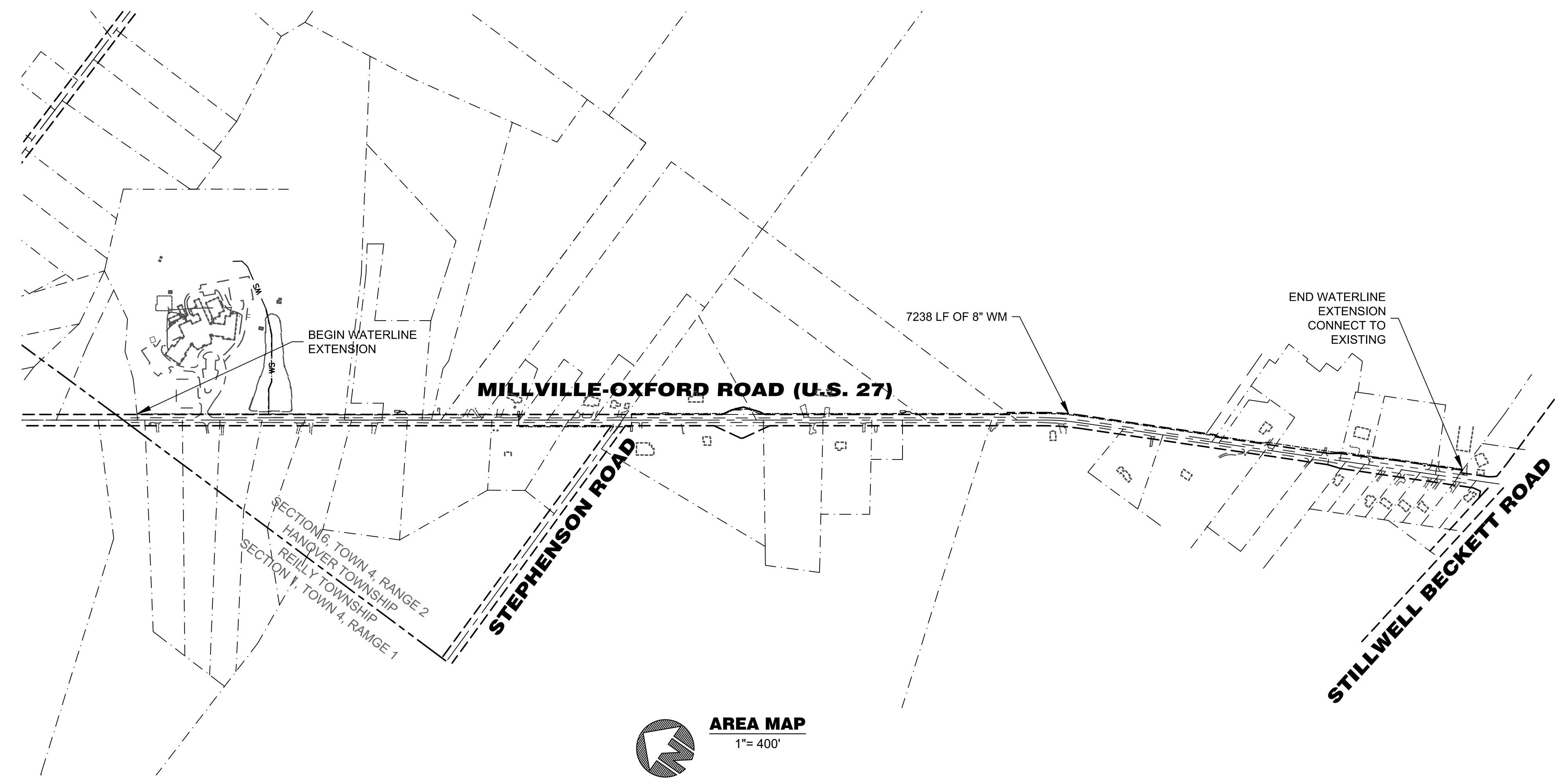


MILLVILLE-OXFORD ROAD WATERLINE EXTENSION

SECTION 6, TOWN 4, RANGE 2 CONGRESS LANDS WEST OF THE MIAMI RIVER HANOVER TOWNSHIP BUTLER COUNTY, OHIO



VICINITY MAP
NOT TO SCALE



AREA MAP
1" = 400'

LEGEND

- ⊙ - Ex Storm M.H.
- - Ex Storm Catch Basin
- - Ex Storm Down Spout
- ⊕ - Ex Fire Hydrant
- ⊖ - Ex Water Valve
- ⊖ - Ex Water Meter
- ⊖ - Ex Water Service
- - Ex Deciduous Tree
- - Ex Evergreen Tree
- - Ex Deciduous Bush
- - Ex Evergreen Bush
- W — Ex Underground Water Main
- G — Ex Underground Gas Main
- U — Ex Overhead Utilities
- E — Ex Underground Electric
- T — Ex Underground Telephone
- X — Ex Farm Woven Fence
- (- - -) Ex Chainlink Fence
- - - Ex Wood Fence
- - - Ex Metal Fence
- - - Ex Plastic Fence
- - - Ex Landscape Border
- - - Ex Treenline
- - - Ex Major Contour
- - - Ex Minor Contour
- ⊗ - Ex Gas Valve
- ⊠ - Ex Gas Box
- ⊡ - Ex Gas Meter
- ⊕ - Ex Gas Marker
- ⊖ - Ex Utility Pole
- ⊖ - Ex Guy Wire

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 STANDARD DETAIL SHEET
- 3 PLAN AND PROFILE SHEET
- 4 PLAN AND PROFILE SHEET
- 5 PLAN AND PROFILE SHEET
- 6 PLAN AND PROFILE SHEET
- 7 PLAN AND PROFILE SHEET
- 8 PLAN AND PROFILE SHEET

GENERAL NOTES

1. ALL TRENCHES WITHIN THE RIGHT-OF-WAY AND 15' UTILITY EASEMENT SHALL BE COMPACTED AND BACKFILLED IN ACCORDANCE WITH ITEM 203 AND 603 IN THE STATE SPECIFICATIONS.
2. WATER MAIN
 - 2.1. WATER MAIN MATERIALS, VALVES, FIRE HYDRANTS, FITTINGS AND APPURTENANCES AND INSTALLATION TO BE AS PER SOUTHWEST REGIONAL WATER DISTRICT SPECIFICATIONS. DUCTILE IRON WATER MAIN SHALL BE PRESSURE CLASS 350 AS PER AWWA C-151 WITH 8-MIL POLYETHYLENE ENCASUREMENT AS PER AWWA C-105. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON WITH 8-MIL POLYETHYLENE ENCASUREMENT AS PER AWWA C-105.
 - 2.2. ALL WATER MAIN VALVES TO HAVE A MINIMUM DEPTH OF 2.5' AND A MAXIMUM DEPTH OF 4' FROM PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT.
 - 2.3. MINIMUM 10' HORIZONTAL, 18" VERTICAL SEPARATION BETWEEN WATER MAIN AND SANITARY AND/OR STORM SEWER.
3. SOUTHWEST REGIONAL WATER DISTRICT DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION, REPAIR, OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN FIVE (5) FEET OF THE CENTER LINE OF ANY SANITARY SEWER MAIN OR WATER MAIN.
4. SOUTHWEST REGIONAL WATER DISTRICT WILL NOT BE RESPONSIBLE FOR ANY PAVEMENT OR STORM SEWER REPAIRS RESULTING FROM WATER MAIN CONSTRUCTION.
5. PROVIDE THE SOUTHWEST REGIONAL WATER DISTRICT OFFICE WITH A FORTY-EIGHT (48) HOUR NOTICE PRIOR TO THE START OF ANY CONSTRUCTION.
6. CONTRACTOR SHALL INCLUDE THE COST OF COUNTY AND SOUTHWEST REGIONAL WATER DISTRICT INSPECTION AND EXTENSION FEES IN UNIT PRICE BID.
7. THE EXISTING 4" MAIN AND ALL WATER SERVICES OFF THIS MAIN SHALL REMAIN IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS NEEDED TO THE 4" MAIN AND ANY WATER SERVICES DAMAGED DURING THE CONSTRUCTION OF THE 8" MAIN.
8. THE ONLY SERVICE CONNECTION TO THE PROPOSED 8" MAIN IS FOR THE MAUDE MARSHALL ELEMENTARY SCHOOL.
9. THE CONTRACTOR SHALL REPLACE AND INSTALL ANY STREET SIGNS OR MAILBOXES REMOVED DURING CONSTRUCTION.
10. MEGALUGS (OR EQUAL) SHALL BE USED AT ALL MECHANICAL JOINTS, AND FIELDLOKS (OR EQUAL) SHALL BE USED AT PUSH-ON JOINTS ON EITHER SIDE OF ALL FITTINGS ACCORDING TO THE RECOMMENDED RESTRAINT LENGTHS TABLE ON SHEET 2.0.

MAINTENANCE OF TRAFFIC NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND STANDARD DRAWINGS.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE C&M SPECIFICATIONS AS WELL AS IN ACCORDANCE WITH PART 7 OF ODOT CD. LANE CLOSURES SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWINGS MT-97.10, MT-99.10.
3. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGH THE USE OF FLAGGERS AND SAFETY CONES, AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR MUST COORDINATE THE WORK SO AS TO NOT INTERRUPT INGRESS AND EGRESS FROM AFFECTED PROPERTIES.
5. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN WILL BE PUT INTO EFFECT UNTIL THE APPROVAL HAS BEEN GRANTED IN WRITING BY ODOT AND/OR THE BUTLER COUNTY ENGINEER.

JACK AND BORE ENTRY PIT PROTECTION

1. THE ENTRY PIT SHALL BE PROTECTED PER TRAFFIC SCD MT-101.90, CONDITION II.
2. BARRICADES SHALL BE PROVIDED PER TRAFFIC SCD MT-95.45, MT-101.75, MT 140.70, AND RM-4.2.



Know what's below.
Call before you dig.

LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION



Date	Drawn	Checked
10-31-19	GJK	
01-19-20	GJK	

Item	Revision Description
1	REVISE PER SOUTHWEST REGIONAL WATER AND INTERNAL COMMENTS
2	REVISE PER SOUTHWEST REGIONAL COMMENTS

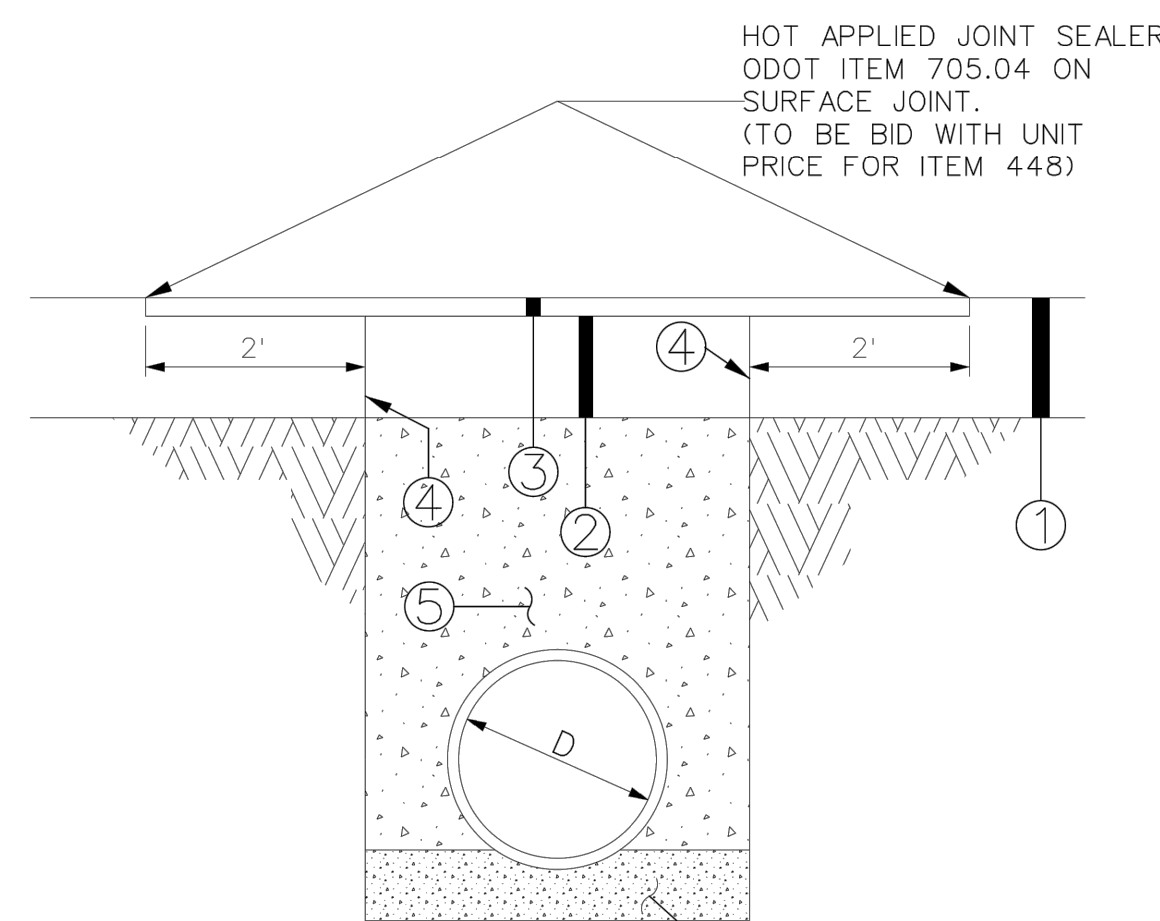
**MILLVILLE-OXFORD ROAD
WATERLINE EXTENSION**
SECTION 6, TOWN 4, RANGE 2
CONGRESS LANDS WEST OF THE MIAMI RIVER
HANOVER TOWNSHIP
BUTLER COUNTY, OHIO



Drawing:	17-0159 WM
Drawn by:	GJK
Checked by:	
Issue Date:	08-29-19

Sheet:
1.0

**BUTLER COUNTY ENGINEER'S OFFICE
STANDARD DETAIL FOR
ROADWAY PAVEMENT RESTORATION**



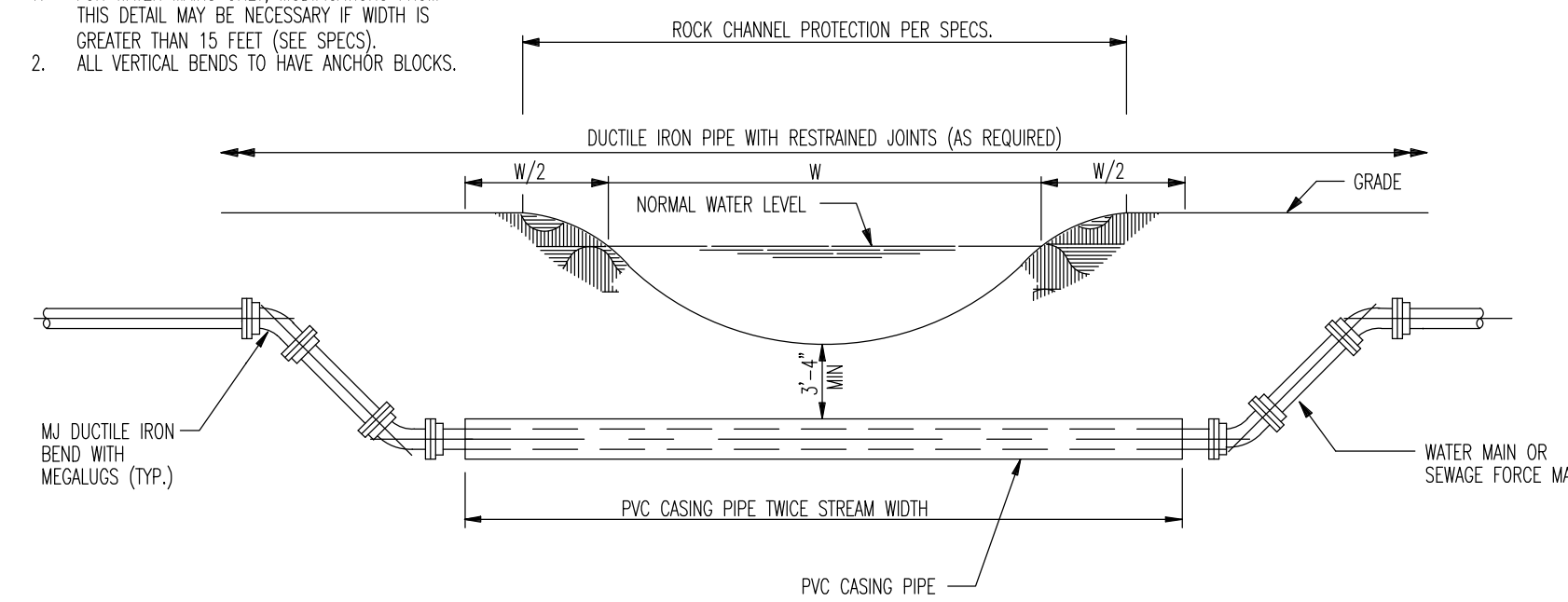
- ① EXISTING PAVEMENT
- ② 8" ITEM 301 BITUMINOUS AGGREGATE BASE IN TWO 4" LIFTS
- ③ 2" ITEM 448 ASPHALT CONCRETE SURFACE COURSE MIN. 2" EACH SIDE OF CUT
- ④ ITEM 407 TACK COAT APPLIED AT 0.10 GAL/SY
- ⑤ LOW STRENGTH MORTAR BACKFILL MATERIAL CLASS LSM 50
- ⑥ MIN. 6" GRANULAR PIPE BEDDING (OPTION - USE GRANULAR BEDDING EXTENDED 12" ABOVE PIPE FOR FULL WIDTH OF TRENCH)

S:\DesignStandards\UTILITY CUT ROADWAY RESTORATION.dgn 3/1/2016 4:33:03 PM mlless 3/1/2016

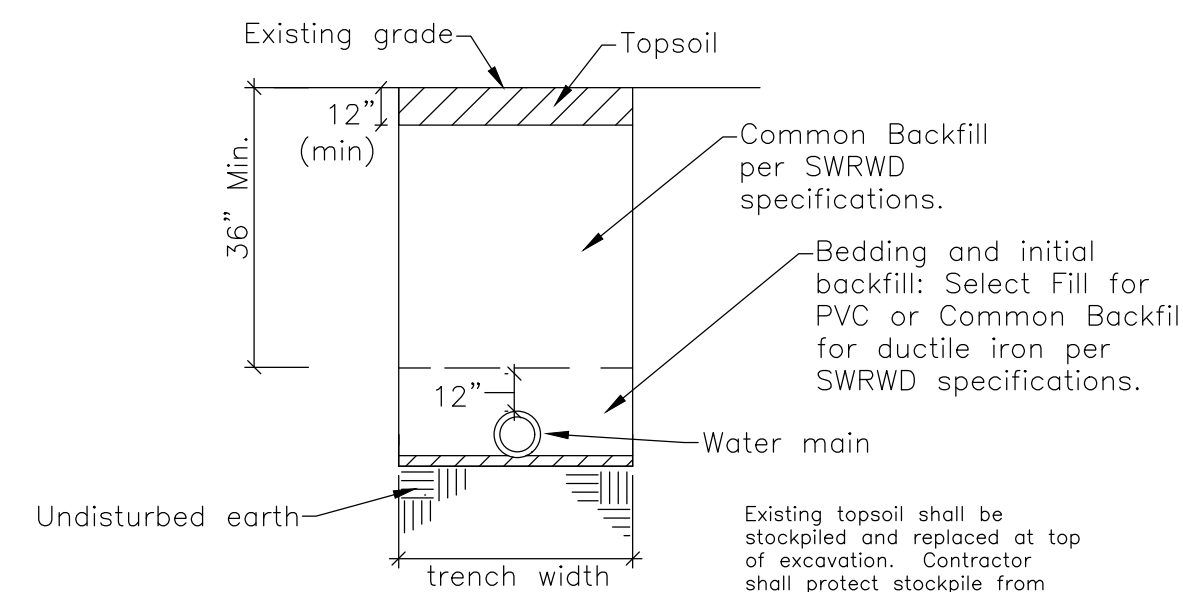
PIPE SIZE	C.Y. CONC. PER LN. FT.	LENGTH OF NO. 3 BARS	SPACING (FT) BETWEEN NO. 3 BARS
6"	0.121	3'-9"	1.64
8"	0.139	4'-3"	1.25
10"	0.157	4'-9"	1.12
12"	0.177	5'-3"	1.02
14"	0.200	6'-3"	0.85
16"	0.247	6'-10"	0.78
18"	0.270	7'-5"	0.72
20"	0.315	8'-6"	0.63
24"	0.540	10'-0"	0.57

CONCRETE ENCASEMENT
NOT TO SCALE

- NOTES:
- FOR WATER MAINS ONLY, MODIFICATIONS FROM THIS DETAIL MAY BE NECESSARY IF WIDTH IS GREATER THAN 15 FEET (SEE SPECS).
 - ALL VERTICAL BENDS TO HAVE ANCHOR BLOCKS.



TYPICAL CREEK CROSSING
NOT TO SCALE



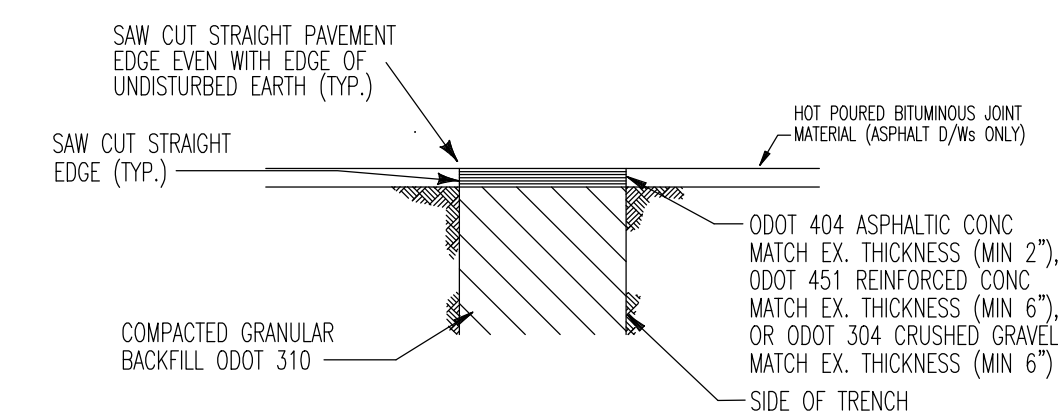
TYPICAL WATER MAIN TRENCH DETAIL
NOT TO SCALE

FITTING TYPE	RECOMMENDED RESTRAINT LENGTHS FOR 225 PSI TEST PRESSURE							
	POLYWRAPPED DUCTILE IRON				PVC			
	6"	8"	10"	12"	6"	8"	10"	12"
90° ELBOW	46'	60'	71'	84'	37'	48'	57'	68'
45° ELBOW	19'	25'	30'	35'	16'	20'	24'	28'
45° ELBOW VERTICAL UPPER	43'	56'	67'	79'	28'	36'	44'	51'
45° ELBOW VERTICAL LOWER	13'	17'	21'	24'	11'	14'	17'	20'
22.5° ELBOW	9'	12'	15'	17'	8'	10'	12'	14'
22.5° ELBOW VERTICAL UPPER	21'	27'	32'	38'	14'	18'	21'	25'
22.5° ELBOW VERTICAL LOWER	7'	9'	10'	12'	5'	7'	8'	10'
11.25° ELBOW	5'	6'	7'	9'	4'	5'	6'	7'
TEE	65'	97'	123'	152'	42'	63'	80'	99'
VALVE, HYDRANT, DEAD END	103'	134'	161'	190'	66'	87'	105'	124'

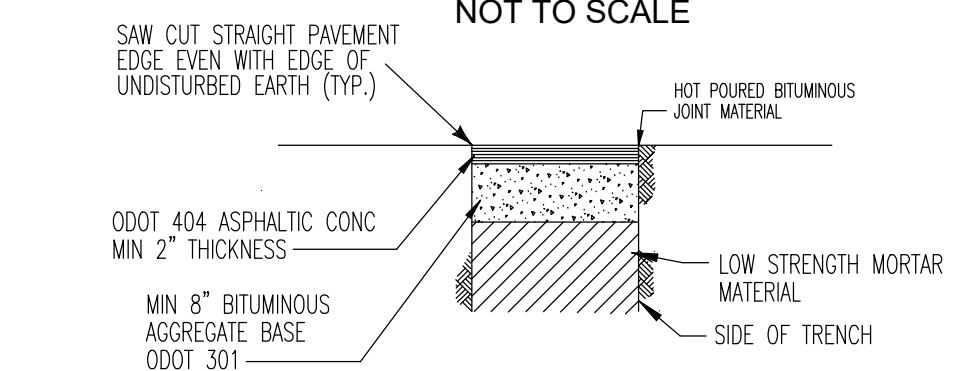
Note: Recommended restrained lengths for tees are for the branch outlet and assume a minimum restrained length of pipe of 10 ft. on each side of the run. Restraint devices shall also be installed on both run joints of the tee itself.

Note: Any joints that fall within these recommended lengths should be restrained; on each side of the bends, on the branch outlet of tees, and before reducers or dead-ends.

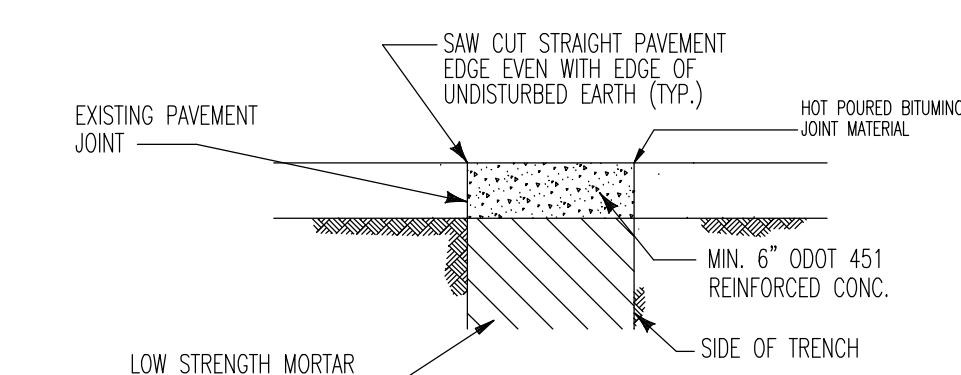
Note: Regardless of Table A value, a minimum of one joint, each side of all bends, shall be restrained. This is in addition to restraint of the fitting itself.



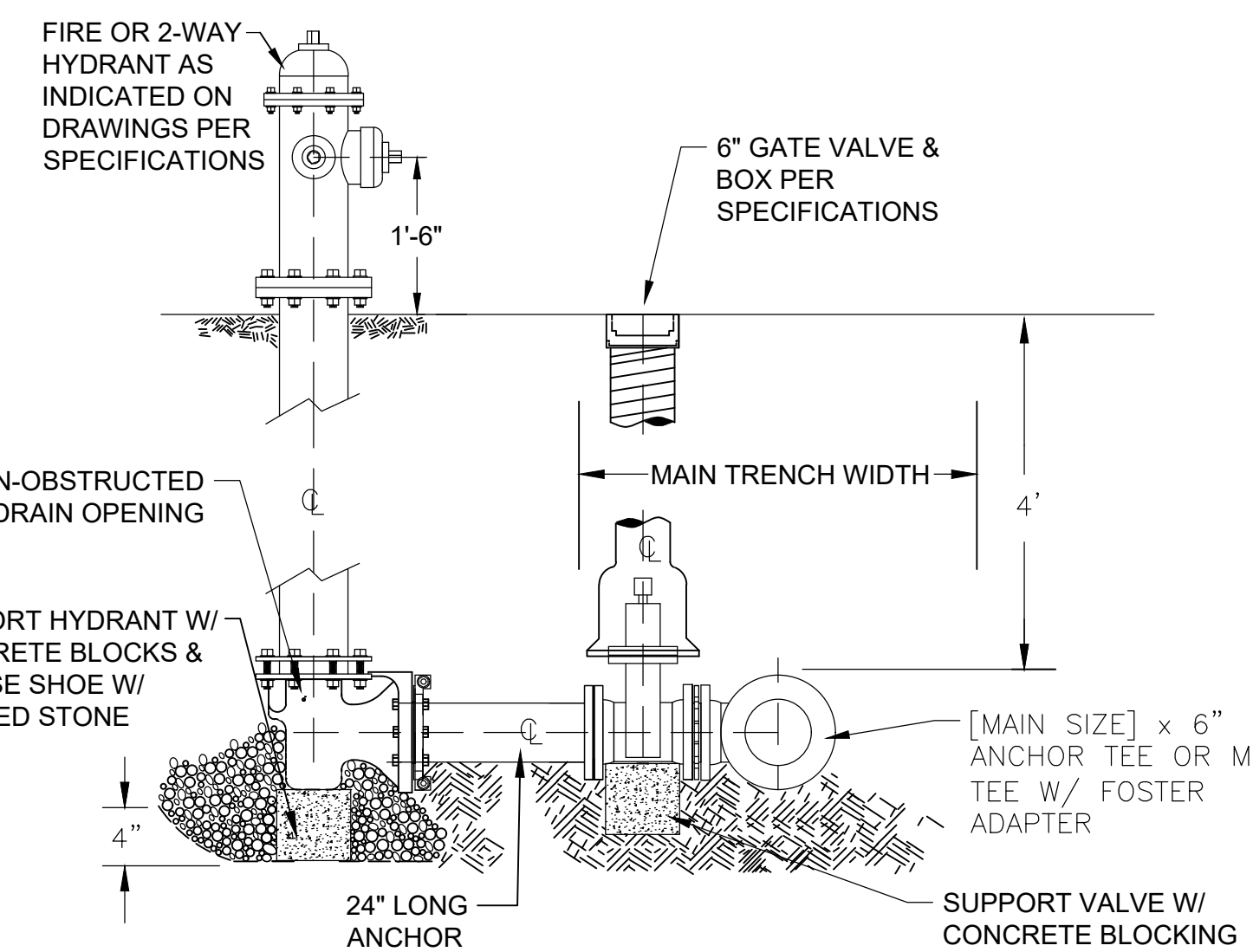
DRIVEWAY
NOT TO SCALE



ASPHALTIC CONCRETE ROADWAY
NOT TO SCALE



CONCRETE ROADWAY
NOT TO SCALE



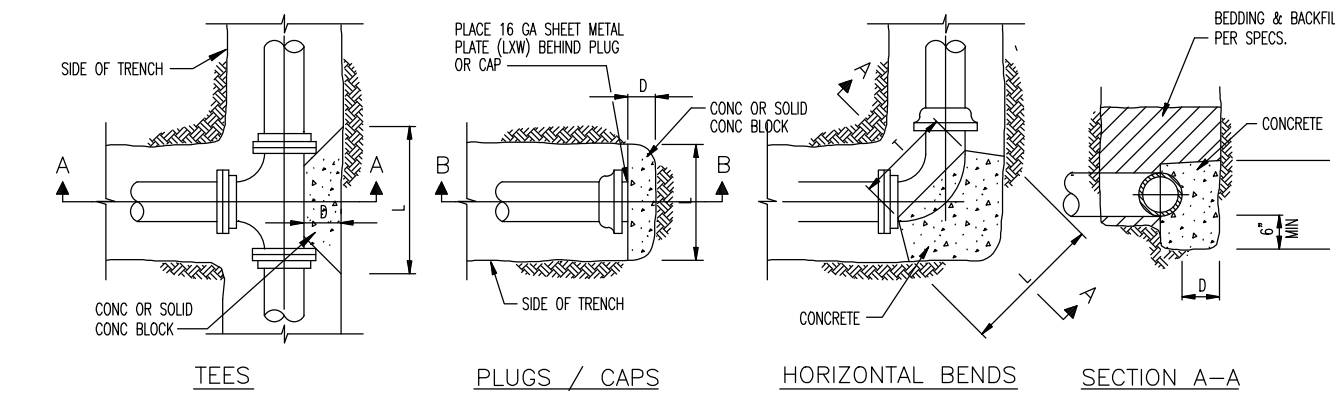
TYPICAL HYDRANT INSTALLATION
NOT TO SCALE

NOTE: Fire Hydrants shall be AWWA breakable type with 5 1/4" compression type main valve, 2-2 1/2" hose, nozzles, 1 - 4 1/2" pumper nozzle, 6" mechanical joint inlet and National Standard 1-1/2" Pentagon operating nut for installation on pipe with 48" of cover. Hydrant nozzle threading shall conform to specification B26-1925 of ASA for the National Standard fire hose thread. Hydrant shall open to left and shall be rated for at least 200 lbs. working pressure.

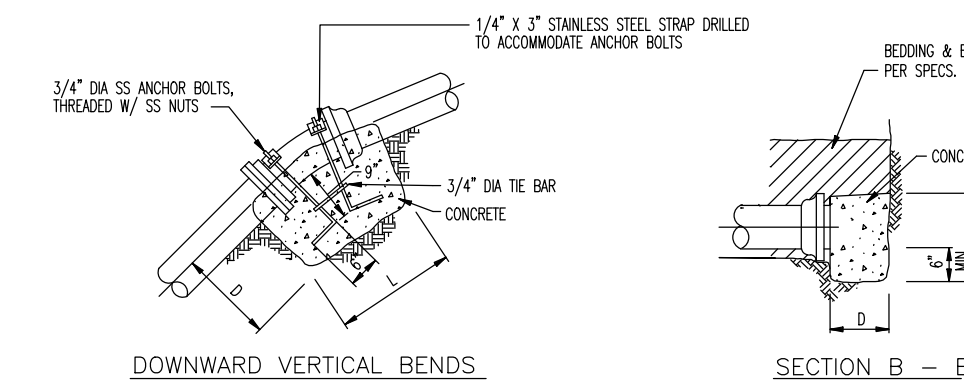
Contractor shall ensure that drain opening drains into crushed stone fill.

Gate valves shall conform to latest specifications of AWWA, Section C-515 for resilient seated valves. Valves shall be non-rising stem type, open left, 2" square operating nut, standard mechanical joint.

See Section SWRW Specifications.



CONCRETE THRUST BLOCKS
NOT TO SCALE



CONCRETE ANCHOR BLOCKS
NOT TO SCALE

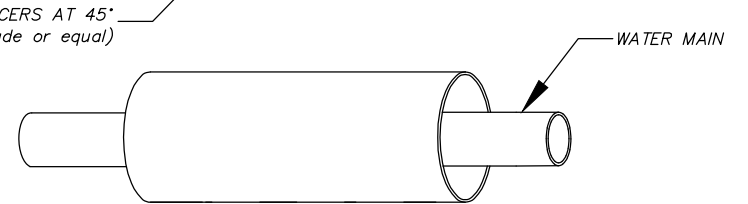
PLUGS, CAPS & TEES												
SIZE	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"		
D	6"	6"	6"	6"	10"	12"	14"	18"	24"	30"		
L & W	20"	22"	24"	24"	32"	36"	40"	54"	76"	102"		
45° EIGHTH BENDS												
SIZE	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"		
D	6"	6"	6"	6"	8"	8"	10"	12"	16"			
L	18"	20"	22"	24"	34"	40"	45"	58"	72"	96"		
T	16"	16"	18"	18"	28"	33"	37"	46"	52"	58"		
W	12"	14"	16"	18"	22"	25"	28"	36"	48"	76"		
90° QUARTER BENDS												
SIZE	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"		
D	8"	10"	12"	12"	16"	16"	20"	20"	24"	28"		
L	24"	27"	30"	34"	48"	51"	54"	78"	92"	144"		
T	16"	18"	20"	22"	36"	40"	44"	50"	56"	62"		
W	12"	16"	20"	24"	28"	34"	40"	50"	66"	96"		

VERTICAL BEND & STRAIGHT PIPE												
SIZE	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"		
D	15"	15"	18"	18"	21"	21"	24"	24"	32"	38"		
L	24"	24"	30"	30"	36"	36"	42"	56"	68"			

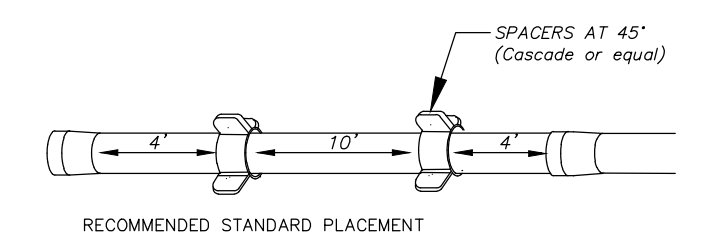
- NOTES:
- ANCHORS TO BE FULL WIDTH OF TRENCH
 - DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. CONC. MUST BE PLACED AGAINST UNDISTURBED EARTH.
 - THESE ARE REPRESENTATIVE BLOCKING DIMENSIONS OTHER BENDS WILL ALSO NEED BLOCKING IF NOT UTILIZING RESTRAINED JOINTS.
 - ENCASE ALL JOINTS, BOLTS, & NUTS WITH POLYETHYLENE BEFORE PLACING CONCRETE.
 - CONCRETE TYPE AND STRENGTH PER SPECS.
 - ALL ANCHOR BOLTS, NUTS, AND STRAPS TO BE STAINLESS STEEL.
 - UPWARD VERTICAL BENDS TO HAVE THRUST BLOCKS WITH SAME DIMENSIONS AS FOR HORIZONTAL BENDS.
 - 11 1/4 DEGREE AND 22 1/2 DEGREE BENDS TO HAVE THRUST BLOCKS WITH SAME DIMENSIONS AS FOR 45 DEGREE BENDS.

WATER PIPE SIZE - CARRIER PIPE SIZE (O.D.) - THICKNESS	
10"	1/4"
8"	3/8"
6"	3/8"
4"	3/8"
10"	3/8"
8"	1/2"
6"	1/2"
4"	1/2"
10"	1/2"
8"	1/2"
6"	1/2"
4"	1/2"

- SO THAT PIPE WILL BE CENTERED IN CARRIER PIPE, THE FOLLOWING INFORMATION IS REQUIRED:
- TYPE & O.D. OF PIPE
 - TYPE OF JOINT/RESTRAINT
 - TYPE & I.D. OF CASING
 - 2 SPACERS PER LENGTH OF PIPE (18") (SEE STANDARD PLACEMENT BELOW)



- NOTE:
- RESTRAINED JOINT TO BE USED WITHIN LIMITS OF CASING
 - PACK END OF CASING W/ CONCRETE OR GRAVEL
 - CASING SPACERS TO BE USED THRU CARRIER PIPE.



WATERMAIN IN CASING
NOT TO SCALE

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**MILLVILLE-OXFORD ROAD
WATERLINE EXTENSION**
SECTION 6, TOWN 4, RANGE 2
CONGRESS LANDS WEST OF THE MIAMI RIVER
HANOVER TOWNSHIP
BUTLER COUNTY, OHIO

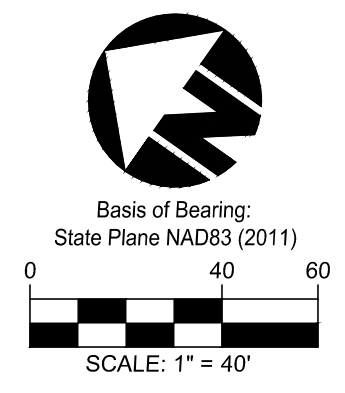
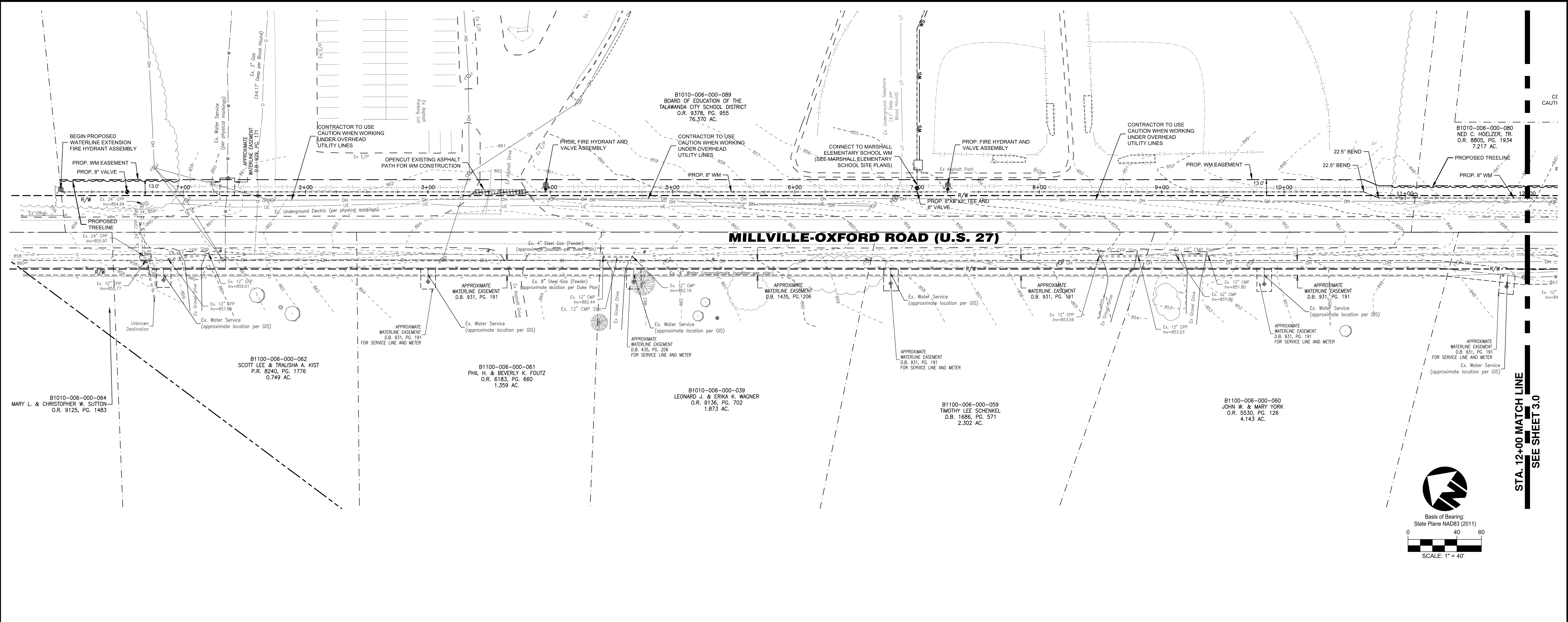
STANDARD DETAIL SHEET

Revision Description
 1 REVISE PER SOUTHWEST REGIONAL WATER AND INTERNAL COMMENTS
 2 REVISE PER SOUTHWEST REGIONAL COMMENTS

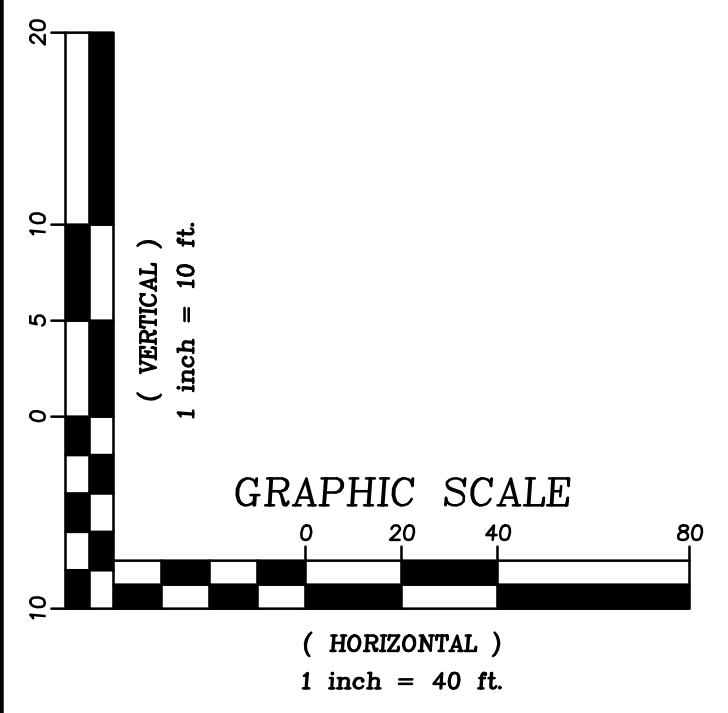
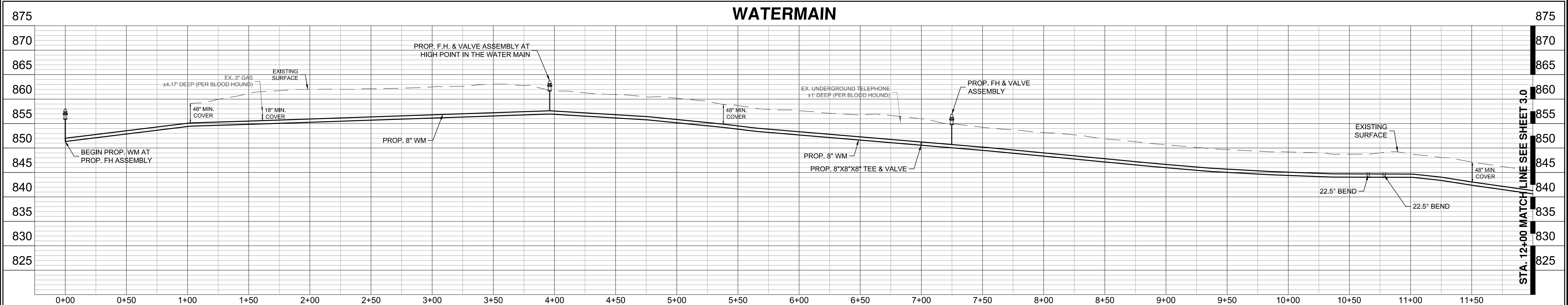
Date: 10-31-19
 Drawn by: GJK
 Issue Date: 01-19-20
 Sheet: 08-29-19

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 Drawing name: J:\2017\17-0159\CV\DWG\17-0159 WM.dwg - Layout Tab: Watermain



STA. 12+00 MATCH LINE
SEE SHEET 3.0



LEGEND

	PROPOSED 8" DUCTILE IRON WATER MAIN		EXISTING TREE TO BE REMOVED
	PROPOSED VALVE		
	SAWCUT & REMOVE EXISTING ASPHALT SURFACE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH ASPHALT.		
	SAWCUT AT EXISTING PAVEMENT JOINT & REMOVE EXISTING CONCRETE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH CONCRETE.		
	SAWCUT, REMOVE, & REPLACE FULL DEPTH GRAVEL PAVEMENT TO CONSTRUCT WATER MAIN. TRENCH TO BE BACKFILLED. GRAVEL REPLACEMENT SHOULD MATCH COLOR, CONSISTENCY AND DEPTH OF THE EXISTING DRIVEWAY MATERIAL.		



LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

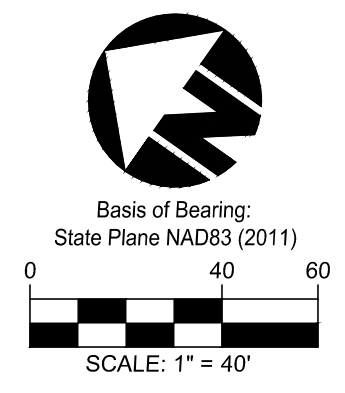
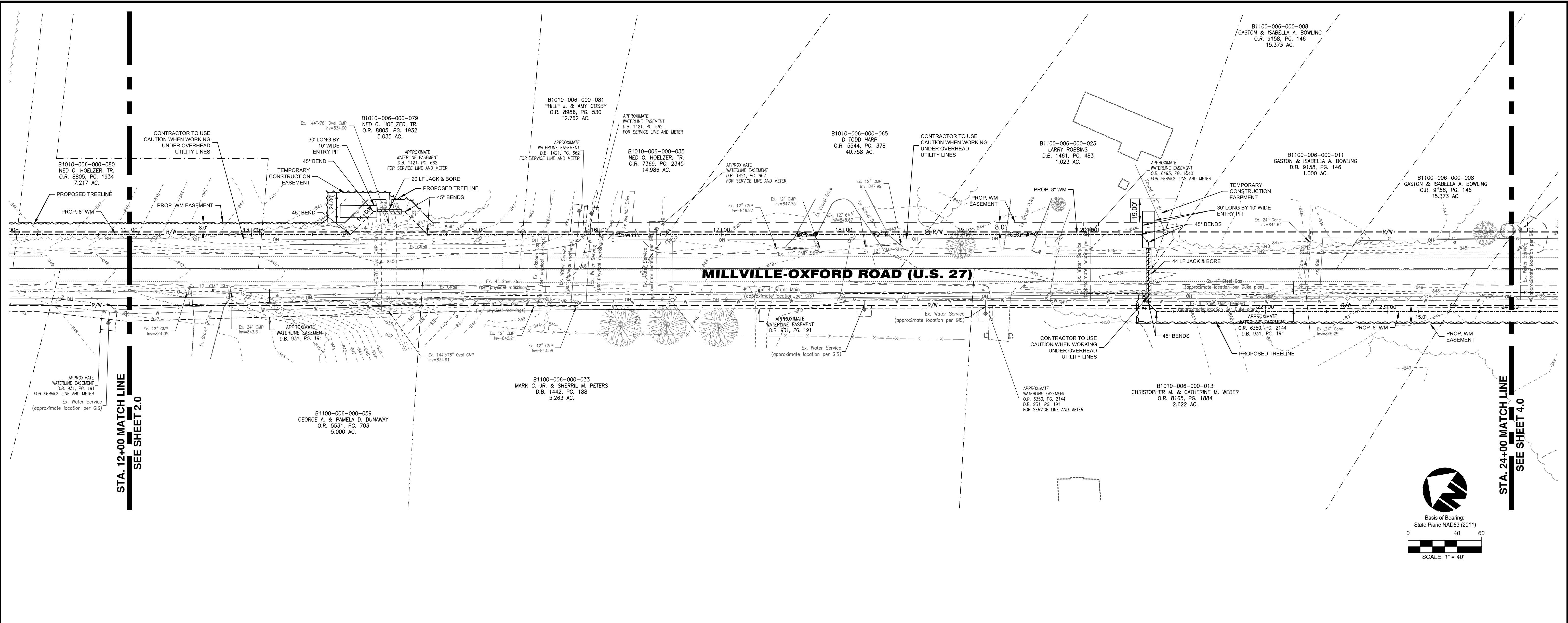
MILLVILLE-OXFORD ROAD WATERLINE EXTENSION
SECTION 6, TOWN 4, RANGE 2
CONGRESS LANDS WEST OF THE MIAMI RIVER
HANOVER TOWNSHIP
BUTLER COUNTY, OHIO
PLAN AND PROFILE SHEET



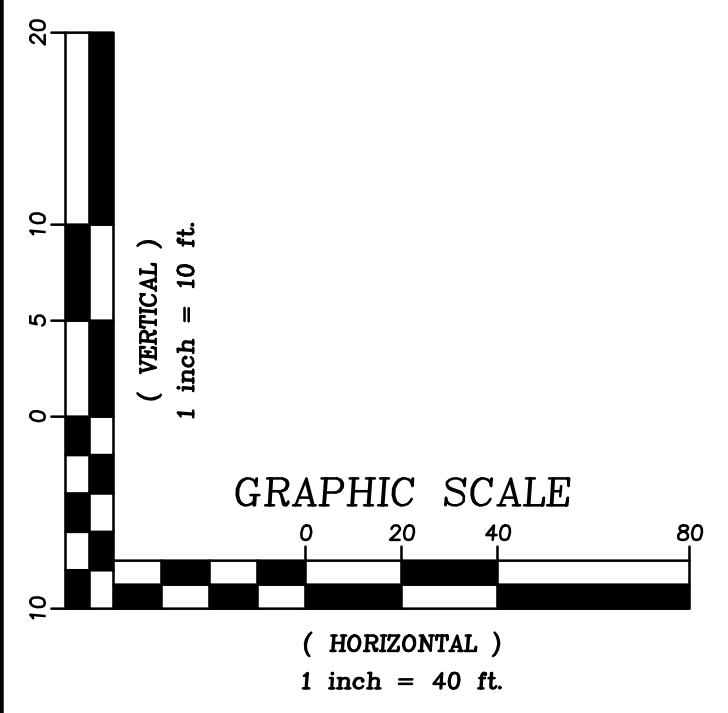
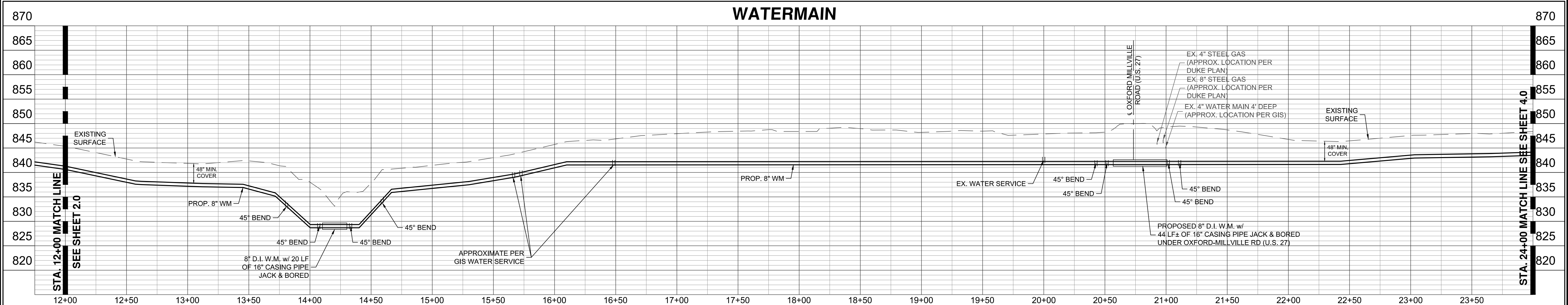
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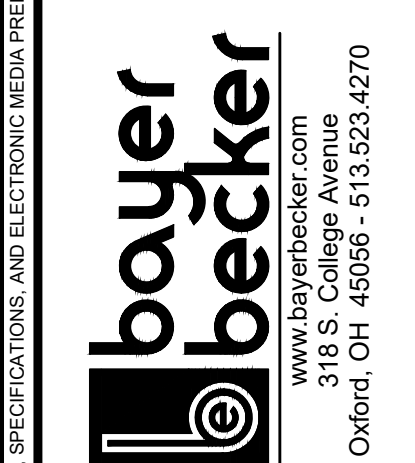
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1	REVISE PER SOUTHWEST REGIONAL WATER AND INTERNAL COMMENTS	10/31/19	GJK	
2	REVISE PER SOUTHWEST REGIONAL COMMENTS	01/19/20	GJK	



LEGEND

	PROPOSED 8" DUCTILE IRON WATER MAIN		EXISTING TREE TO BE REMOVED
	PROPOSED VALVE		
	SAWCUT & REMOVE EXISTING ASPHALT SURFACE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH ASPHALT.		
	SAWCUT AT EXISTING PAVEMENT JOINT & REMOVE EXISTING CONCRETE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH CONCRETE.		
	SAWCUT, REMOVE, & REPLACE FULL DEPTH GRAVEL PAVEMENT TO CONSTRUCT WATER MAIN. TRENCH TO BE BACKFILLED. GRAVEL REPLACEMENT SHOULD MATCH COLOR, CONSISTENCY AND DEPTH OF THE EXISTING DRIVEWAY MATERIAL.		

MILLVILLE-OXFORD ROAD WATERLINE EXTENSION
 SECTION 6, TOWN 4, RANGE 2
 CONGRESS LANDS WEST OF THE MIAMI RIVER
 HANOVER TOWNSHIP
 BUTLER COUNTY, OHIO



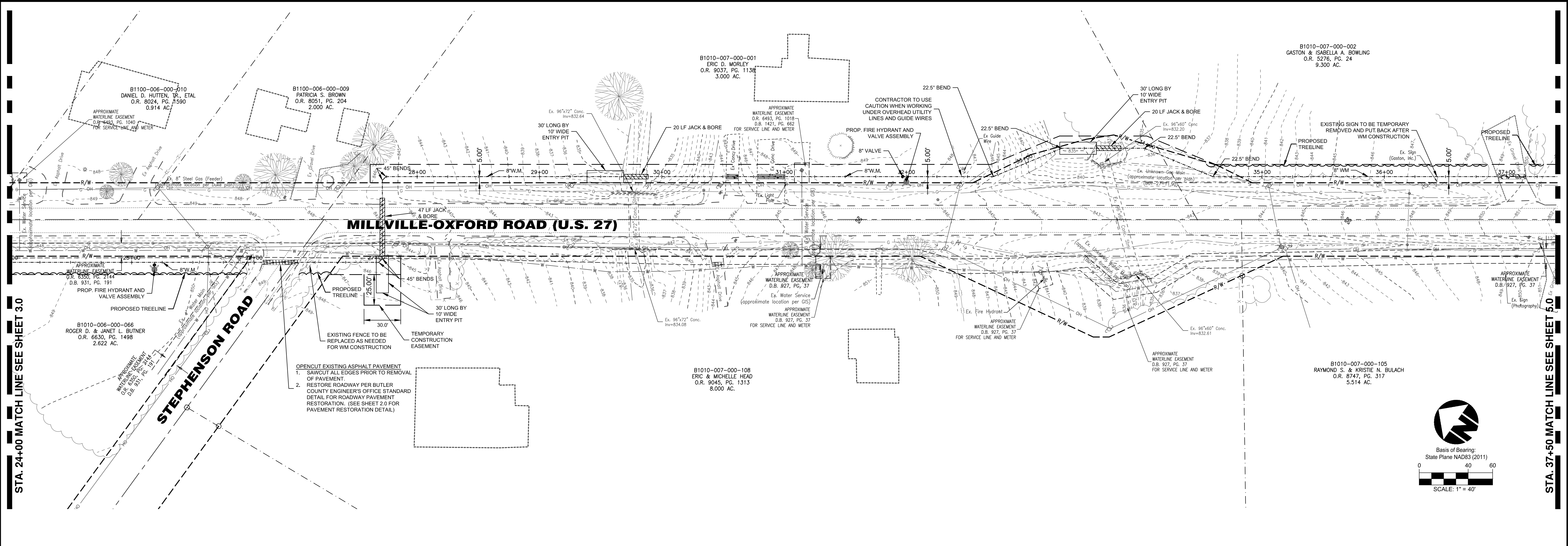
Know what's below.
Call before you dig.

LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

Drawing:	17-0159 WM
Drawn by:	GJK
Checked by:	
Issue Date:	08-29-19
Sheet:	

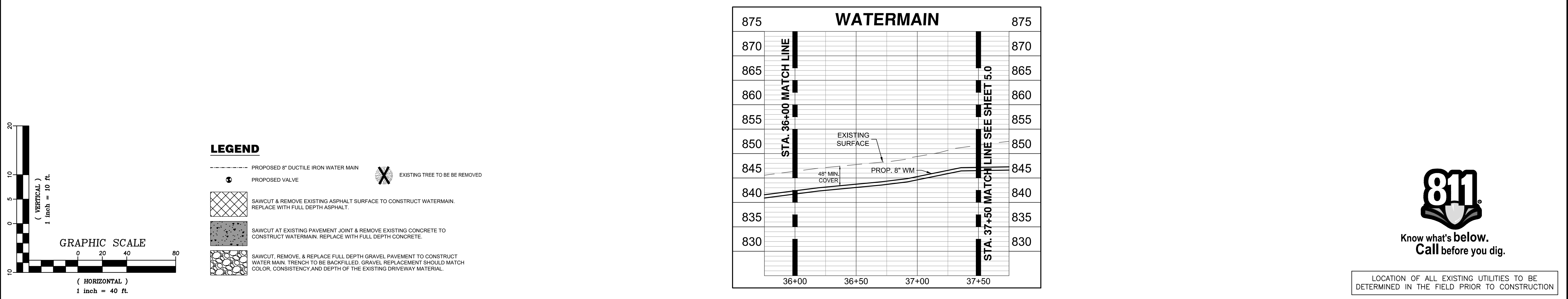
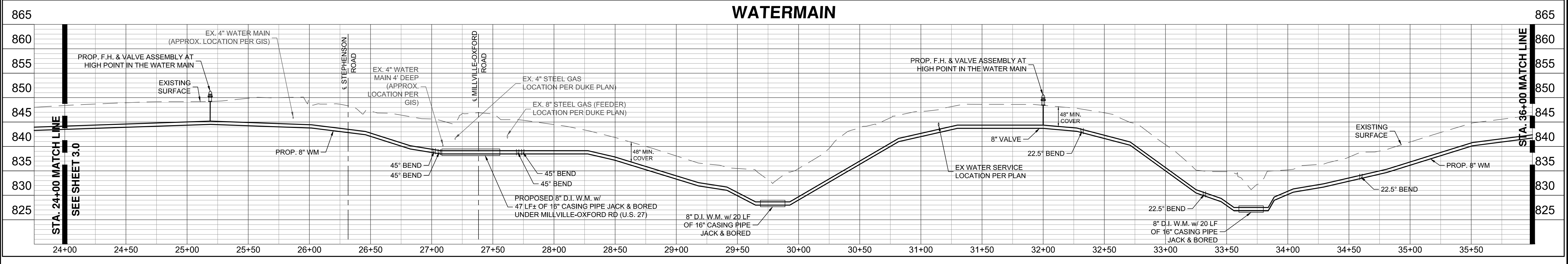
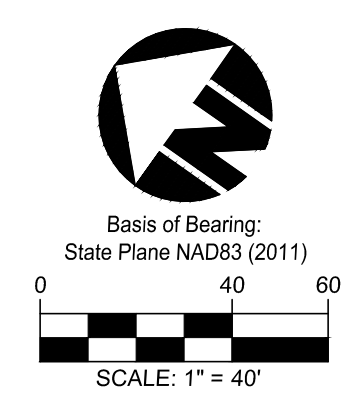
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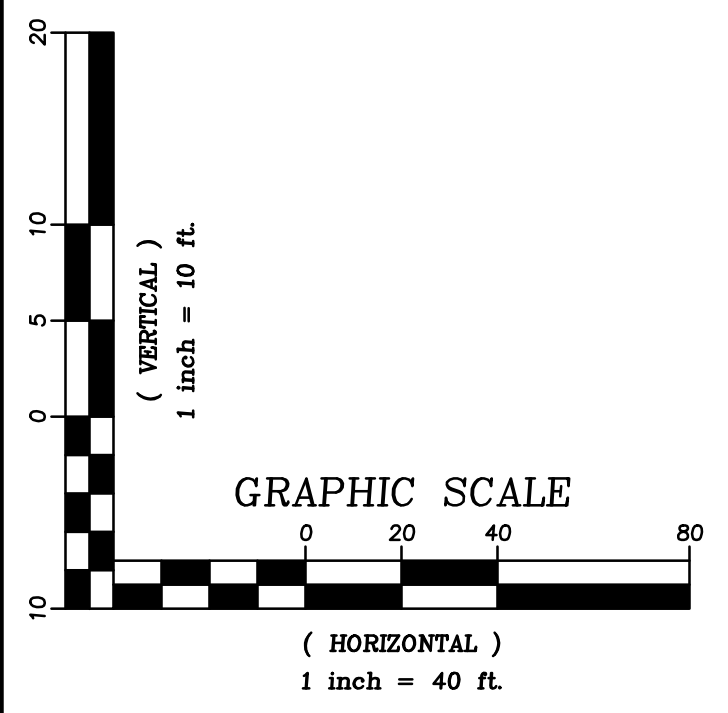
STA. 24+00 MATCH LINE SEE SHEET 3.0

STA. 37+50 MATCH LINE SEE SHEET 5.0



LEGEND

	PROPOSED 8" DUCTILE IRON WATER MAIN		EXISTING TREE TO BE REMOVED
	PROPOSED VALVE		
	SAWCUT & REMOVE EXISTING ASPHALT SURFACE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH ASPHALT.		
	SAWCUT AT EXISTING PAVEMENT JOINT & REMOVE EXISTING CONCRETE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH CONCRETE.		
	SAWCUT, REMOVE, & REPLACE FULL DEPTH GRAVEL PAVEMENT TO CONSTRUCT WATER MAIN. TRENCH TO BE BACKFILLED. GRAVEL REPLACEMENT SHOULD MATCH COLOR, CONSISTENCY AND DEPTH OF THE EXISTING DRIVEWAY MATERIAL.		



MILLVILLE-OXFORD ROAD WATERLINE EXTENSION
SECTION 6, TOWN 4, RANGE 2
CONGRESS LANDS WEST OF THE MIAMI RIVER
HANOVER TOWNSHIP
BUTLER COUNTY, OHIO

PLAN AND PROFILE SHEET

Item	Revision Description	Date	Drawn: GJK	Checked: GJK
1	REVISE PER SOUTHWEST REGIONAL WATER AND INTERNAL COMMENTS	10-31-19		
2	REVISE PER SOUTHWEST REGIONAL COMMENTS	01-19-20		
3	REVISE WM ALIGNMENT FROM STA 27+00 TO STA. 37+00	10-29-20		

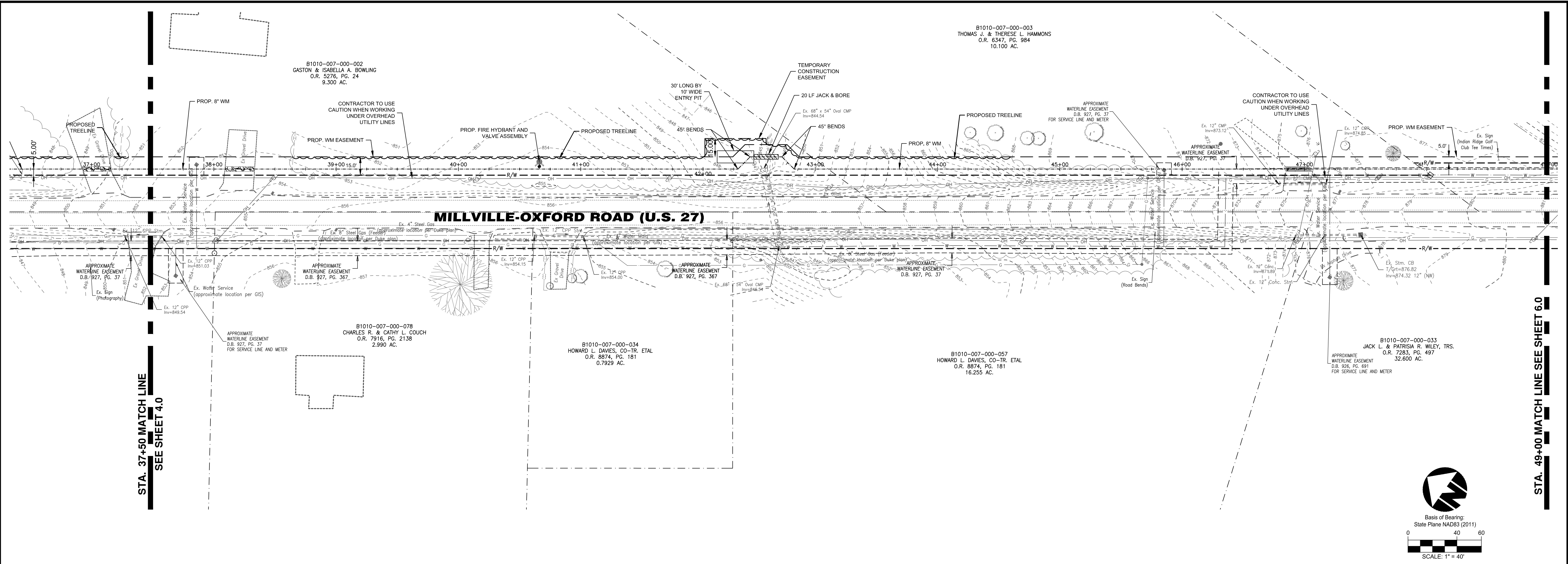
Drawing: 17-0159 WM
Drawn by: GJK
Checked by:
Issue Date: 08-29-19
Sheet: 5.0

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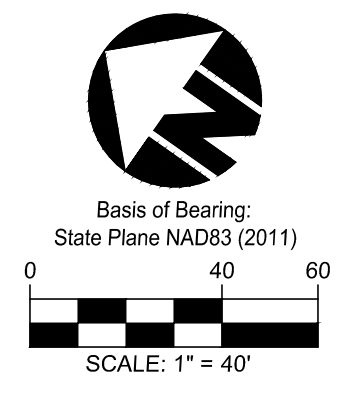
LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

Plot time: Dec 14, 2020 - 9:55am
Drawing name: J:\2017\17-0159\CV\DWG\17-0159 WM.dwg - Layout Tab: Watermain

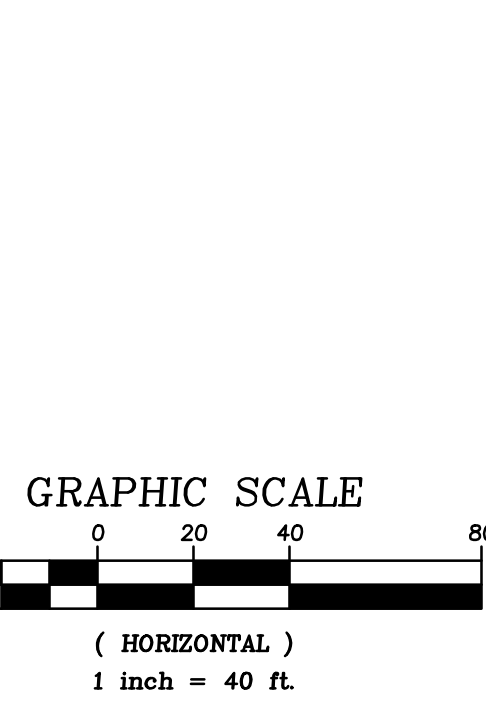
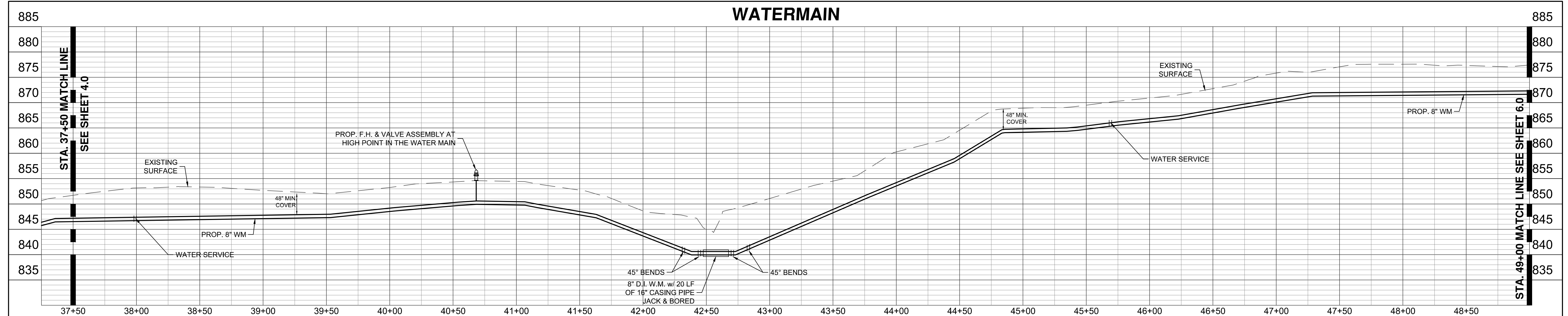


STA. 37+50 MATCH LINE
SEE SHEET 4.0

STA. 49+00 MATCH LINE SEE SHEET 6.0



WATERMAIN



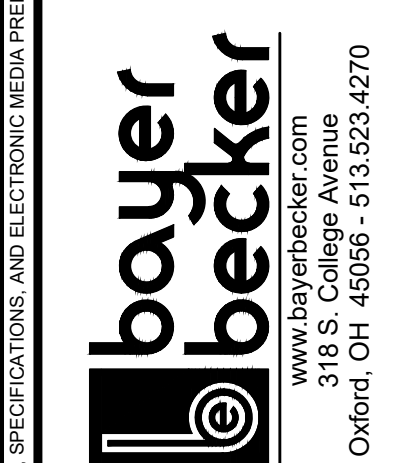
LEGEND

	PROPOSED 8" DUCTILE IRON WATER MAIN		EXISTING TREE TO BE REMOVED
	PROPOSED VALVE		
	SAWCUT & REMOVE EXISTING ASPHALT SURFACE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH ASPHALT.		
	SAWCUT AT EXISTING PAVEMENT JOINT & REMOVE EXISTING CONCRETE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH CONCRETE.		
	SAWCUT, REMOVE, & REPLACE FULL DEPTH GRAVEL PAVEMENT TO CONSTRUCT WATER MAIN. TRENCH TO BE BACKFILLED. GRAVEL REPLACEMENT SHOULD MATCH COLOR, CONSISTENCY AND DEPTH OF THE EXISTING DRIVEWAY MATERIAL.		



LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION

**MILLVILLE-OXFORD ROAD
WATERLINE EXTENSION**
SECTION 6, TOWN 4, RANGE 2
CONGRESS LANDS WEST OF THE MIAMI RIVER
HANOVER TOWNSHIP
BUTLER COUNTY, OHIO

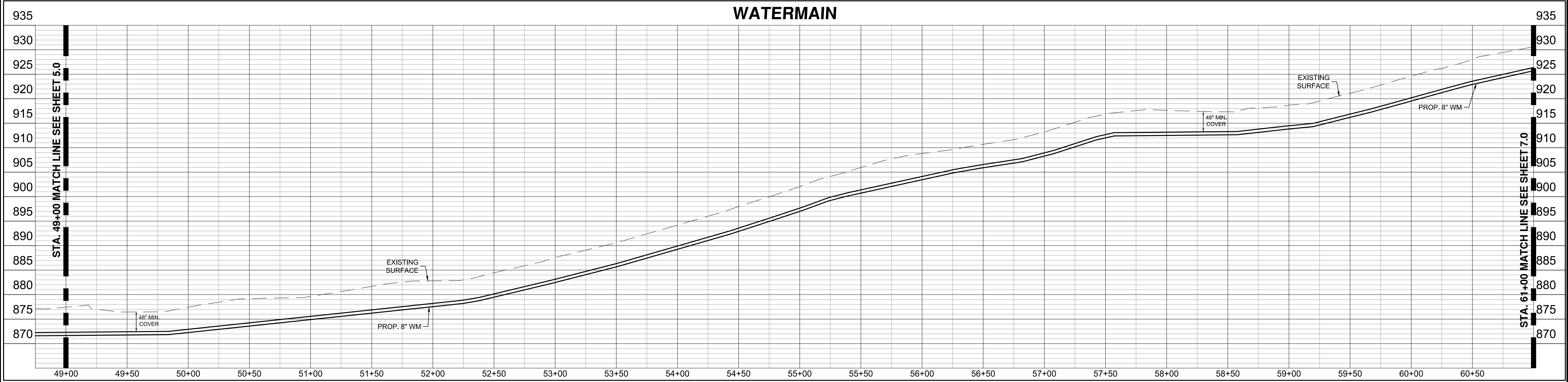
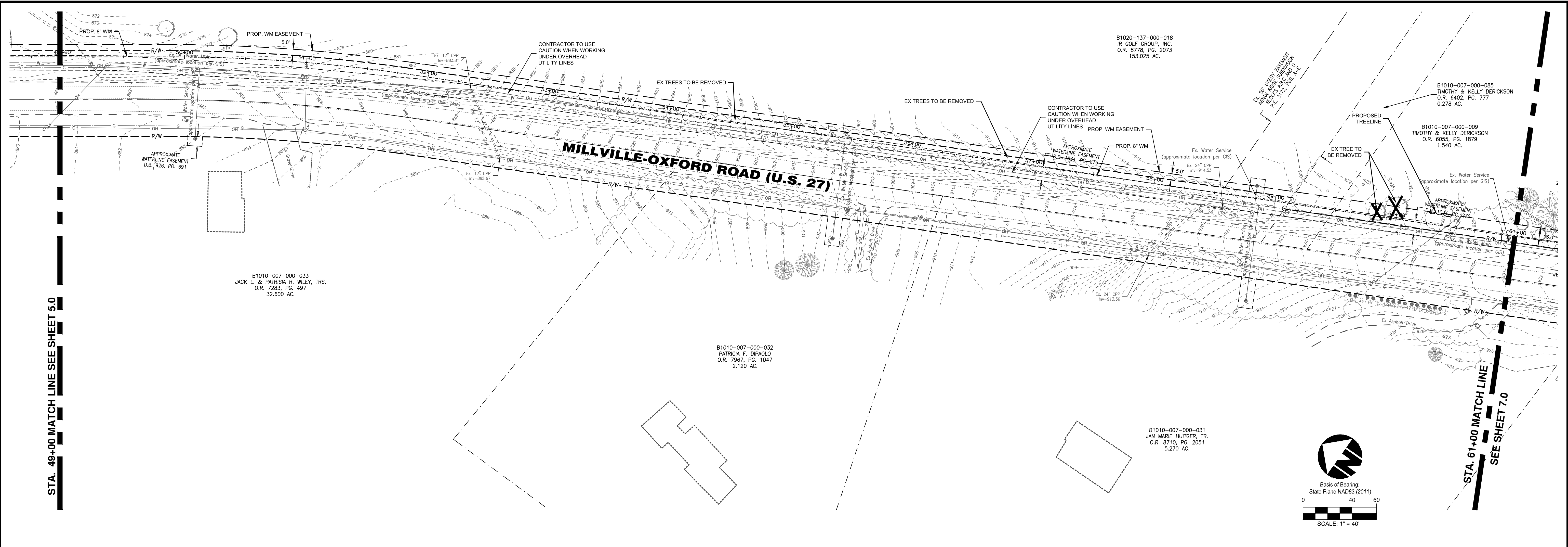


Drawing:	17-0159 WM
Drawn by:	GJK
Checked by:	
Issue Date:	08-29-19
Sheet:	

6.0

Plot time: Dec 14, 2020 - 9:56am
Drawing name: J:\2017\17-0159\CV\DWG\17-0159 WM.dwg - Layout Tab: Watermain

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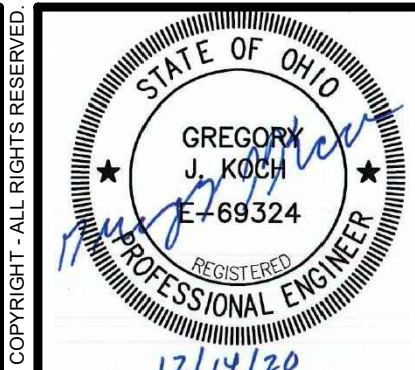
LEGEND

- PROPOSED 8" DUCTILE IRON WATER MAIN
- PROPOSED VALVE
- ✕ EXISTING TREE TO BE REMOVED
- [Cross-hatched box] SAWCUT & REMOVE EXISTING ASPHALT SURFACE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH ASPHALT.
- [Dotted box] SAWCUT AT EXISTING PAVEMENT JOINT & REMOVE EXISTING CONCRETE TO CONSTRUCT WATERMAIN. REPLACE WITH FULL DEPTH CONCRETE.
- [Stippled box] SAWCUT, REMOVE, & REPLACE FULL DEPTH GRAVEL PAVEMENT TO CONSTRUCT WATER MAIN. TRENCH TO BE BACKFILLED. GRAVEL REPLACEMENT SHOULD MATCH COLOR, CONSISTENCY AND DEPTH OF THE EXISTING DRIVEWAY MATERIAL.

GRAPHIC SCALE

(VERTICAL)
1 inch = 10 ft.

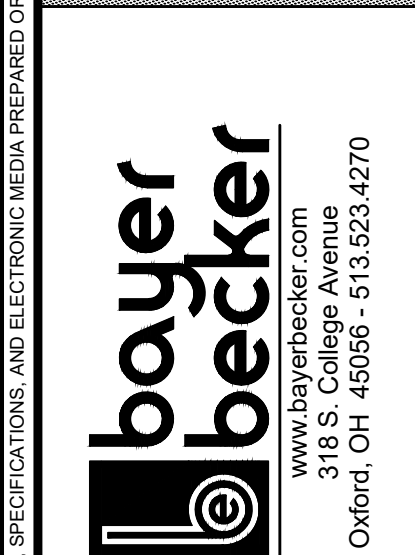
(HORIZONTAL)
1 inch = 40 ft.



Item	Revision Description	Date	Drawn	Checked
1	REVISE PER SOUTHWEST REGIONAL WATER AND INTERNAL COMMENTS	10/31/19	GJK	

MILLVILLE-OXFORD ROAD WATERLINE EXTENSION
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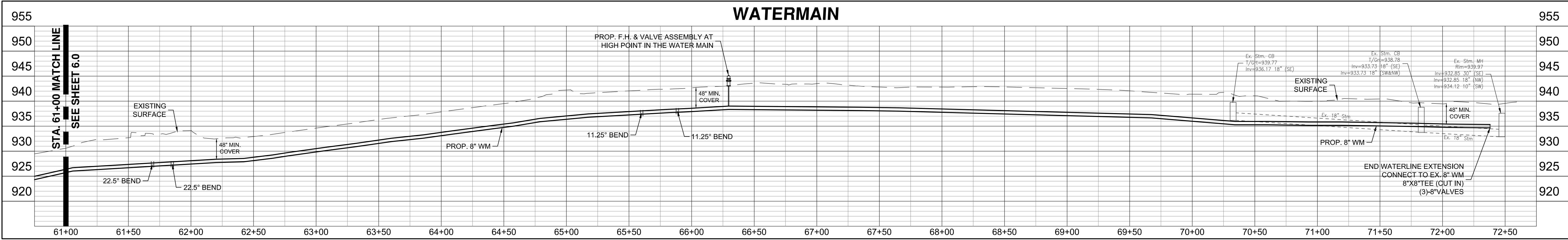
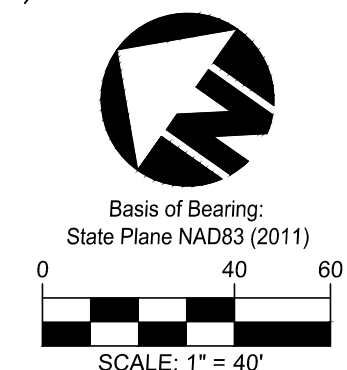
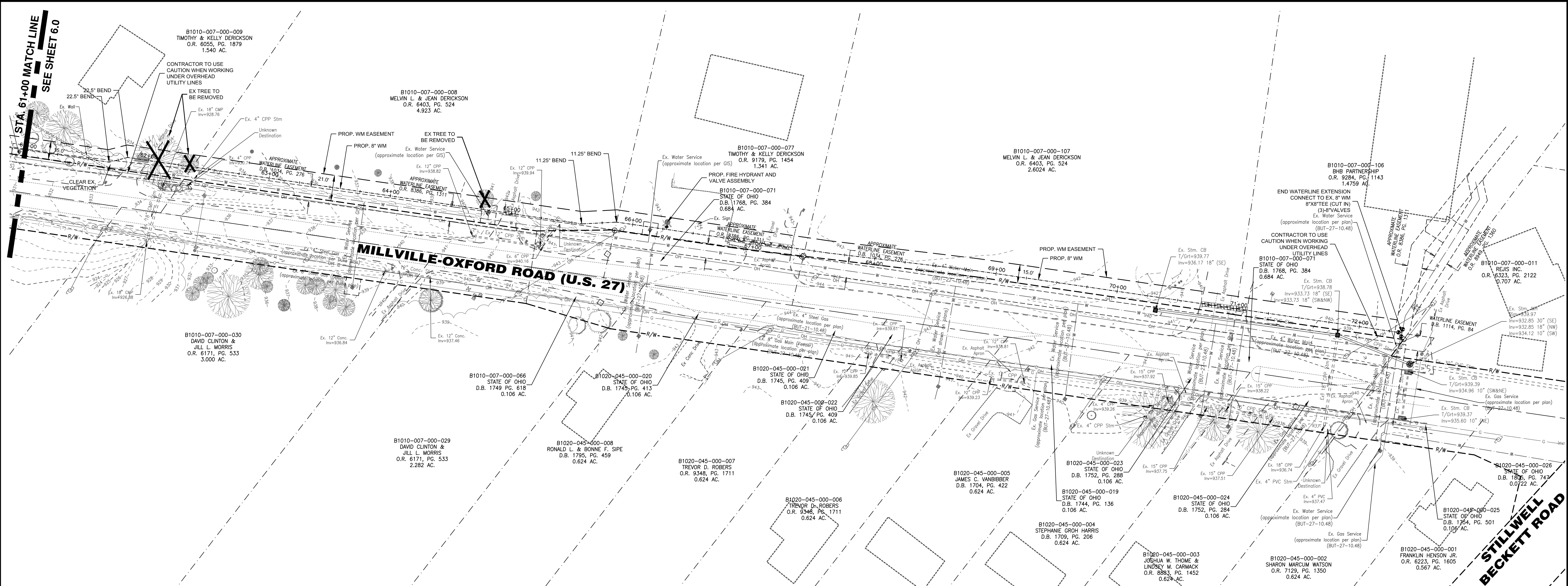
PLAN AND PROFILE SHEET



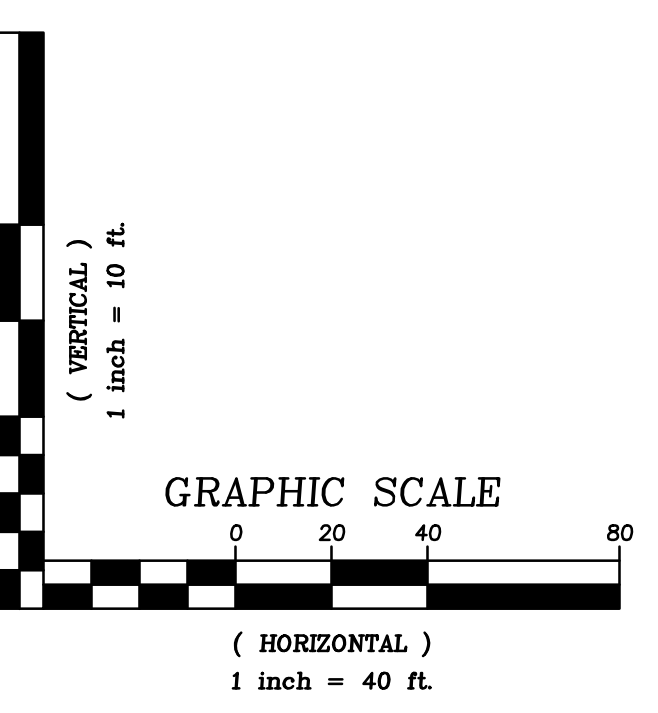
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Drawing name: J:\2017\17-0159\CV\DWG\17-0159 WM.dwg - Layout Tab: Watermain

Drawing:	17-0159 WM
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Checked by:	
Issue Date:	08-29-19
Sheet:	7.0

LOCATION OF ALL EXISTING UTILITIES TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION



- LEGEND**
- PROPOSED 8\"/>
 - PROPOSED VALVE
 - EXISTING TREE TO BE REMOVED
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MILLVILLE-OXFORD ROAD WATERLINE EXTENSION
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