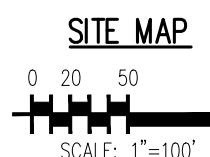
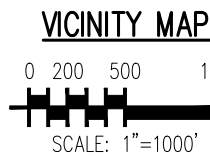


MERIDIAN STORAGE

UTILITY CONSTRUCTION DRAWINGS

VR239 & PPR2336

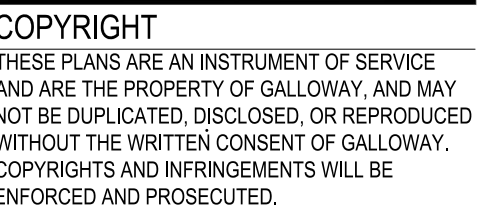
FALCON FIRE PROTECTION DISTRICT
7030 OLD MERIDIAN RD.,
FALCON, CO 80831
TELE: (719) 495-4050
CONTACT: TRENT HARWIG
EMAIL: THARWIG@FALCONFIREPD.ORG



NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

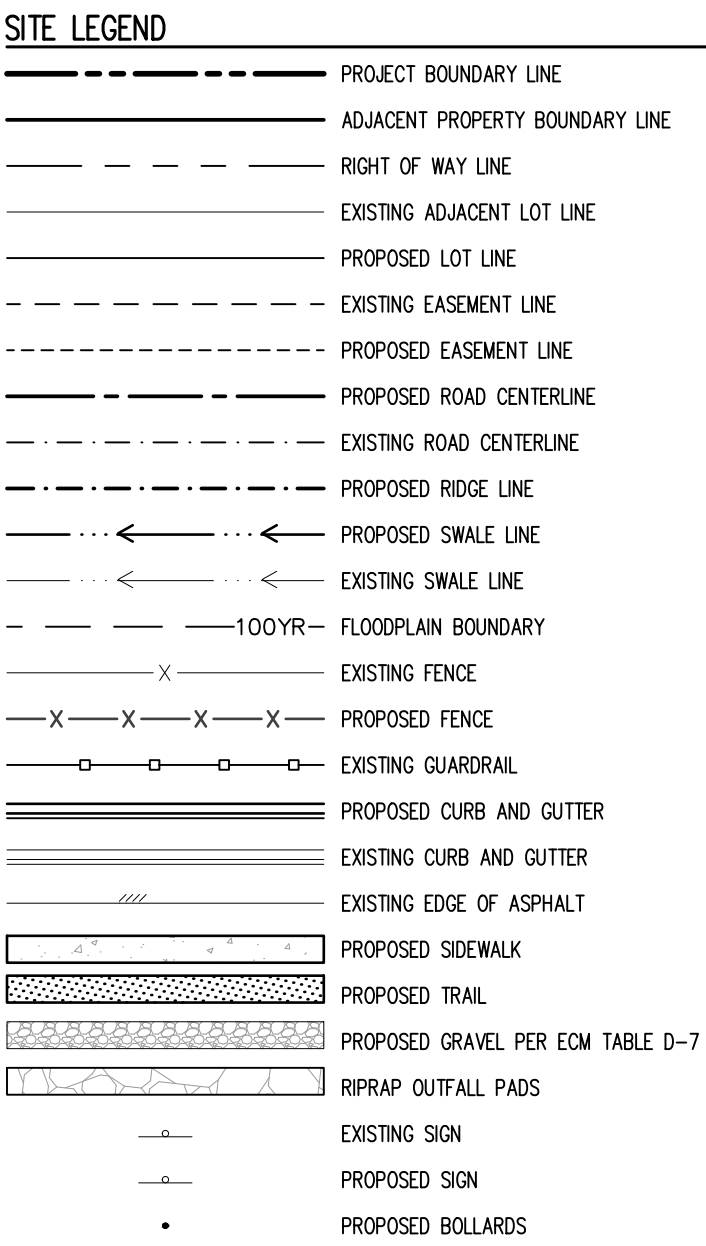
Sheet 1 of 12

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Project No:	MRS01
Drawn By:	JDM, BLB
Checked By:	BAS, CMWJ
Date:	08/04/2025

VR239 & PPR2336

Sheet 3 of 12

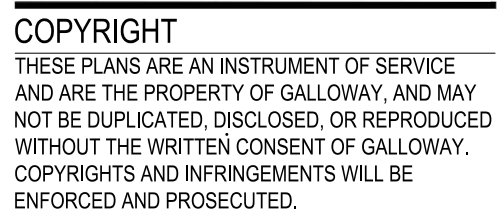


	—W—	EXISTING WATER LINE
	—W—	PROPOSED WATER LINE
	—SS—	EXISTING SANITARY SEWER
	—SS—	PROPOSED SANITARY SEWER
		EXISTING STORM SEWER
		PROPOSED STORM SEWER
	—G—	EXISTING GAS LINE
	—G—	PROPOSED GAS LINE
	—UT—	EXISTING UNDERGROUND TELEPHONE
	—OH—	EXISTING OVERHEAD ELECTRIC
	—FO—	EXISTING FIBER OPTIC LINE
		EXISTING FIBER OPTIC STRUCTURES
		EXISTING TELEPHONE PEDESTAL
		EXISTING ELECTRIC TRANSFORMER
		EXISTING POWER POLE
		EXISTING STREET LIGHT
		PROPOSED STREET LIGHT
		PROPOSED WATER METER
		EXISTING WATER VALVE
		PROPOSED WATER VALVE
		EXISTING FIRE HYDRANT
		PROPOSED FIRE HYDRANT
		EXISTING STORM SEWER MANHOLE
		PROPOSED STORM SEWER MANHOLE
		EXISTING SANITARY SEWER MANHOLE
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STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

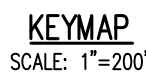
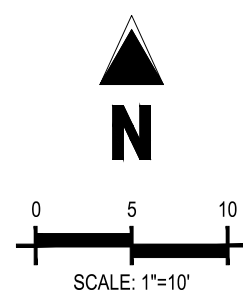
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Project No:	MRS01
Drawn By:	JDM, BLB
Checked By:	BAS, CMWJ
Date:	08/04/2025

VR239 & PPR2336

U1.1

Sheet 4 of 12



	PROJECT BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED ROAD CENTERLINE
	EXISTING ROAD CENTERLINE
	PROPOSED RIDGE LINE
	PROPOSED SWALE LINE
	EXISTING SWALE LINE
	100-YR FLOODPLAIN BOUNDARY
	EXISTING FENCE
	PROPOSED FENCE
	EXISTING GUARDRAIL
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	PROPOSED SIDEWALK
	PROPOSED TRAIL
	PROPOSED GRAVEL PER EDM TABLE
	RIPRAP OUTFALL PADS
	EXISTING SIGN
	PROPOSED SIGN
	PROPOSED BOLLARDS

— W —	EXISTING WATER LINE
— W —	PROPOSED WATER LINE
— SS —	EXISTING SANITARY SEWER
— SS —	PROPOSED SANITARY SEWER
—	EXISTING STORM SEWER
—	PROPOSED STORM SEWER
— G —	EXISTING GAS LINE
— G —	PROPOSED GAS LINE
— UT —	EXISTING UNDERGROUND TELEPHONE
— OH —	EXISTING OVERHEAD ELECTRIC
— FO —	EXISTING FIBER OPTIC LINE
—	EXISTING FIBER OPTIC STRUCTURES
—	EXISTING TELEPHONE PEDESTAL
—	EXISTING ELECTRIC TRANSFORMER
—	EXISTING POWER POLE
—	EXISTING STREET LIGHT
—	PROPOSED STREET LIGHT
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Call before you dig.

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	EXISTING ROAD CENTERLINE
	PROPOSED RIDGE LINE
	PROPOSED SWALE LINE
	EXISTING SWALE LINE
	FLOODPLAIN BOUNDARY
	EXISTING FENCE
	PROPOSED FENCE
	EXISTING GUARDRAIL
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
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	PROPOSED SIDEWALK
	PROPOSED TRAIL
	PROPOSED GRAVEL PER EOM TABLE D-7
	RIPRAP OUTFALL PADS
	EXISTING SIGN
	PROPOSED SIGN
	PROPOSED BOLLARDS

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	—W—	PROPOSED WATER LINE
	—SS—	EXISTING SANITARY SEWER
	—SS—	PROPOSED SANITARY SEWER
	—SS—	EXISTING STORM SEWER
	—SS—	PROPOSED STORM SEWER
	—G—	EXISTING GAS LINE
	—G—	PROPOSED GAS LINE
	—UT—	EXISTING UNDERGROUND TELEPHONE
	—OHE—	EXISTING OVERHEAD ELECTRIC
	—FO—	EXISTING FIBER OPTIC LINE
	—FO—	EXISTING FIBER OPTIC STRUCTURES
	—TEL—	EXISTING TELEPHONE PEDESTAL
	—TR—	EXISTING ELECTRIC TRANSFORMER
	—PP—	EXISTING POWER POLE
	—SL—	EXISTING STREET LIGHT
	—SL—	PROPOSED STREET LIGHT
	—WM—	PROPOSED WATER METER
	—WV—	EXISTING WATER VALVE
	—WV—	PROPOSED WATER VALVE
	—FH—	EXISTING FIRE HYDRANT
	—FH—	PROPOSED FIRE HYDRANT
	—SM—	EXISTING STORM SEWER MANHOLE
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SCALE: 1"=200'



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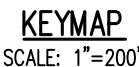
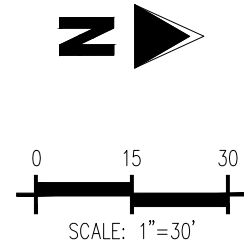
VR239 & PPR2336

EL PASO COUNTY, FALCON, CO 80931

Project No:	MRS01
Drawn By:	JDM, BLB
Checked By:	BAS, CMWJ
Date:	08/04/2025

WATER PLAN & PROFILE

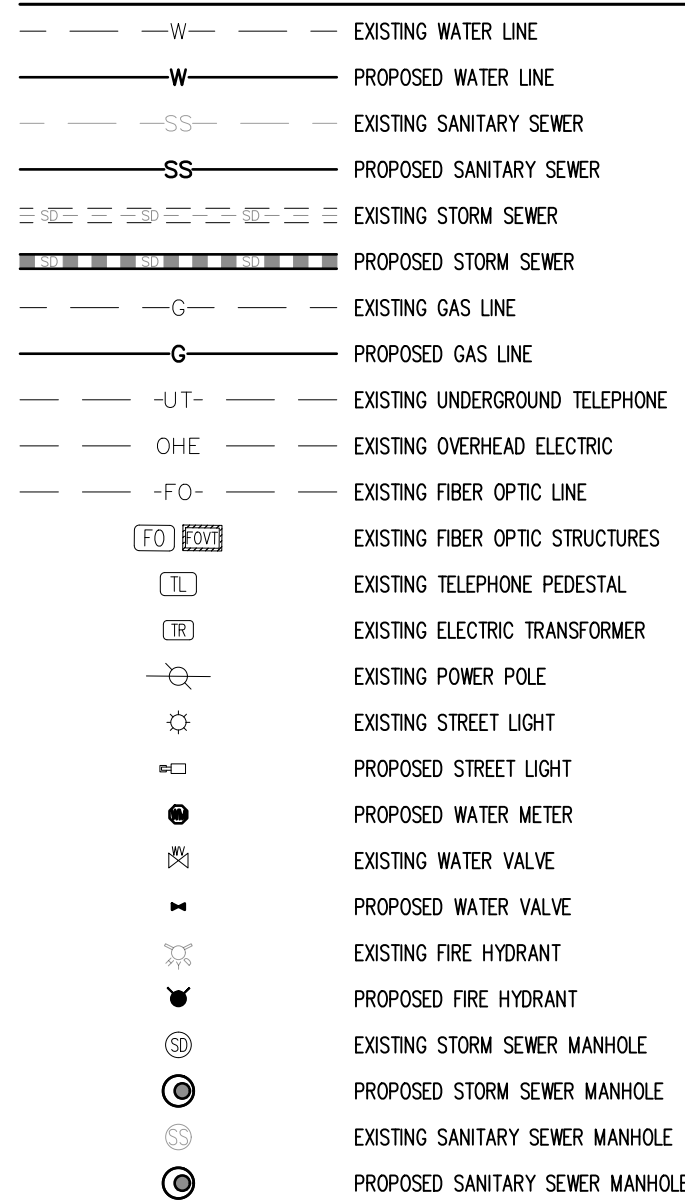
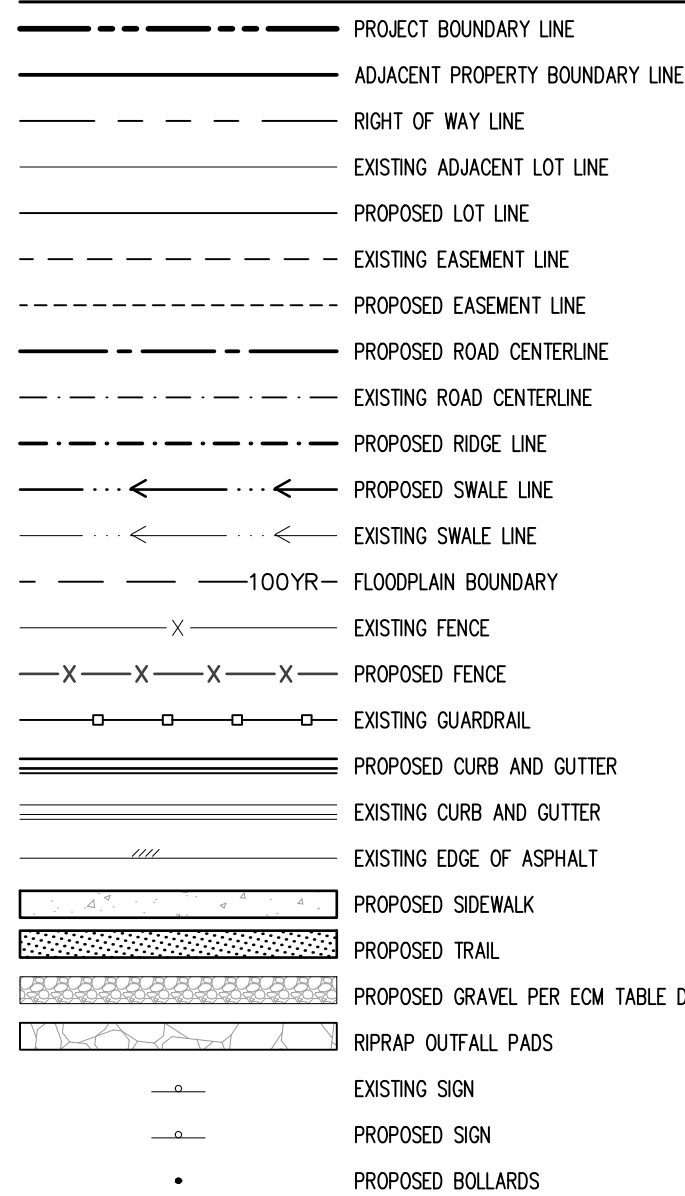
Sheet 5 of 12



1155 Kelly Johnson Blvd., Suite 305
Colorado Springs, CO 80920
719.900.7220
GallowayUS.com



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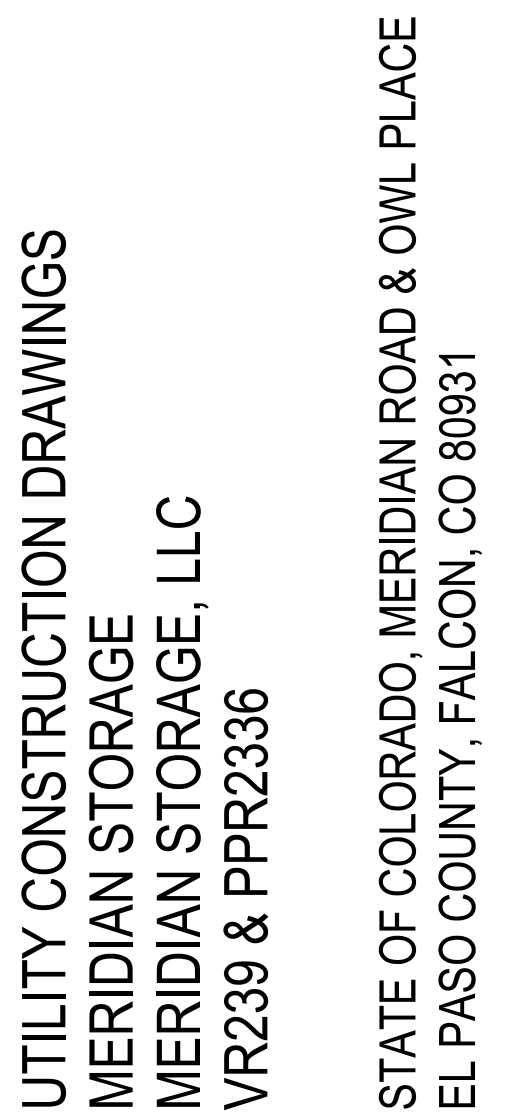
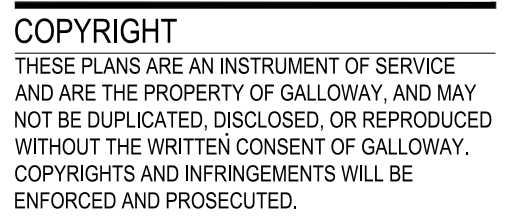
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
VR239 & PPR2336

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

Project No:	MRS01
Drawn By:	JDM, BLB
Checked By:	BAS, CMWJ
Date:	08/04/2025

VR239 & PPR2336

Sheet 6 of 12



Project No:	MRS01
Drawn By:	JDM, BLB
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Sheet 7 of 12



- | | |
|--|---------------------------------|
| | PROJECT BOUNDARY LINE |
| | ADJACENT PROPERTY BOUNDARY LINE |
| | RIGHT OF WAY LINE |
| | EXISTING ADJACENT LOT LINE |
| | PROPOSED LOT LINE |
| | EXISTING EASEMENT LINE |
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| | PROPOSED SWALE LINE |
| | EXISTING SWALE LINE |
| | FLOODPLAIN BOUNDARY |
| | EXISTING FENCE |
| | PROPOSED FENCE |
| | EXISTING GUARDRAIL |
| | PROPOSED CURB AND GUTTER |
| | EXISTING CURB AND GUTTER |
| | EXISTING EDGE OF ASPHALT |
| | PROPOSED SIDEWALK |
| | PROPOSED TRAIL |
| | PROPOSED GRAVEL PER ECM TABLE D |
| | RIPRAP OUTFALL PADS |
| | EXISTING SIGN |
| | PROPOSED SIGN |
| | PROPOSED BOLLARDS |

UTILITY LEGEND

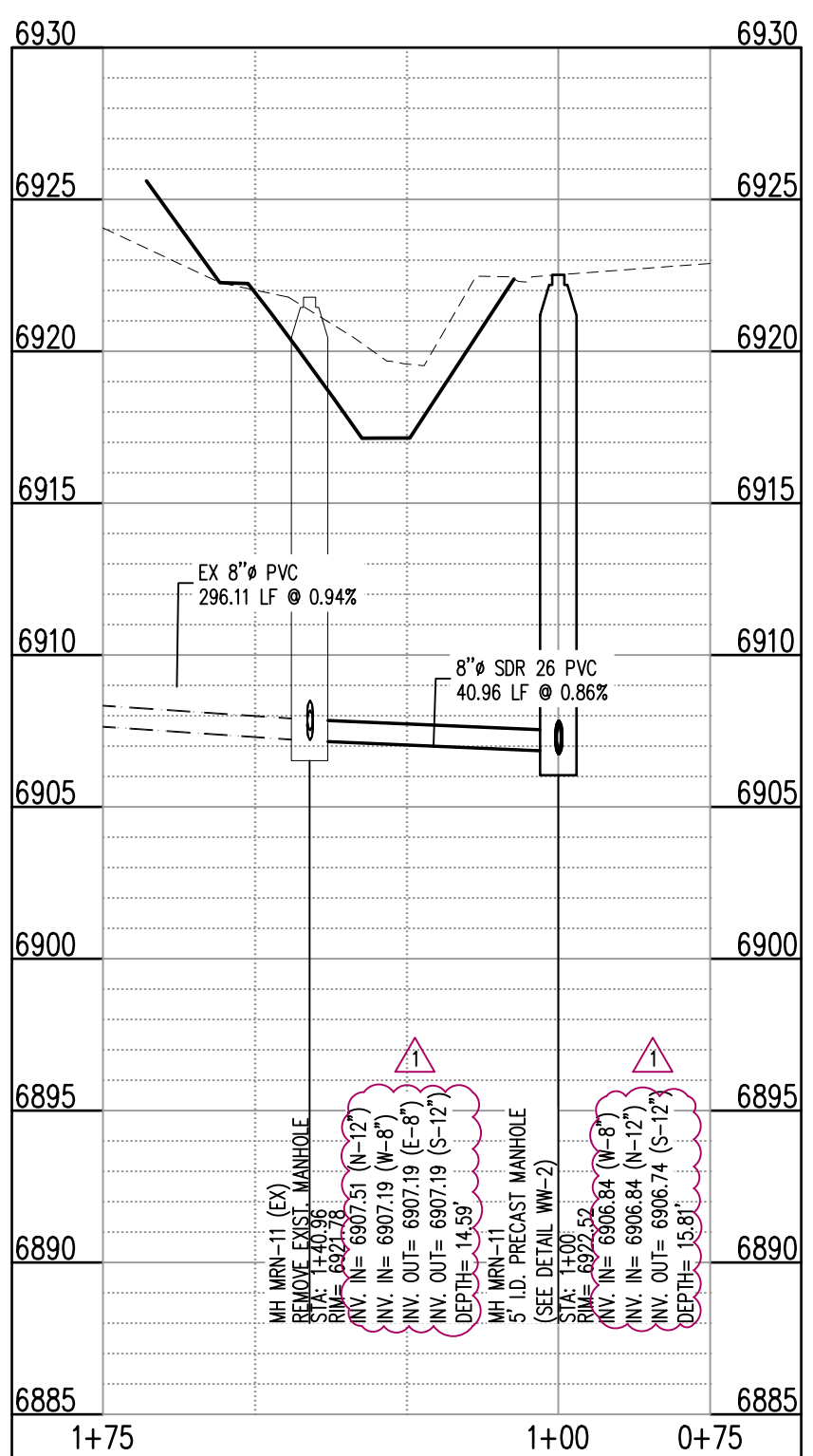
- | | |
|------------------|---------------------------------|
| -W- | EXISTING WATER LINE |
| - <u>W</u> - | PROPOSED WATER LINE |
| --SS-- | EXISTING SANITARY SEWER |
| -- <u>SS</u> -- | PROPOSED SANITARY SEWER |
| =-=-S-S=-=->-=<= | EXISTING STORM SEWER |
| [STORM] | PROPOSED STORM SEWER |
| --G-- | EXISTING GAS LINE |
| -- <u>G</u> -- | PROPOSED GAS LINE |
| --UT-- | EXISTING UNDERGROUND TELEPHONE |
| OHE | EXISTING OVERHEAD ELECTRIC |
| -FO- | EXISTING FIBER OPTIC LINE |
| (FD) [PDR] | EXISTING FIBER OPTIC STRUCTURES |
| [TEL] | EXISTING TELEPHONE PEDESTAL |
| [TR] | EXISTING ELECTRIC TRANSFORMER |
| | EXISTING POWER POLE |
| | EXISTING STREET LIGHT |
| | PROPOSED STREET LIGHT |
| | PROPOSED WATER METER |
| | EXISTING WATER VALVE |
| | PROPOSED WATER VALVE |
| | EXISTING FIRE HYDRANT |
| | PROPOSED FIRE HYDRANT |
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- 811**
- Know what's below.
Call before you dig.
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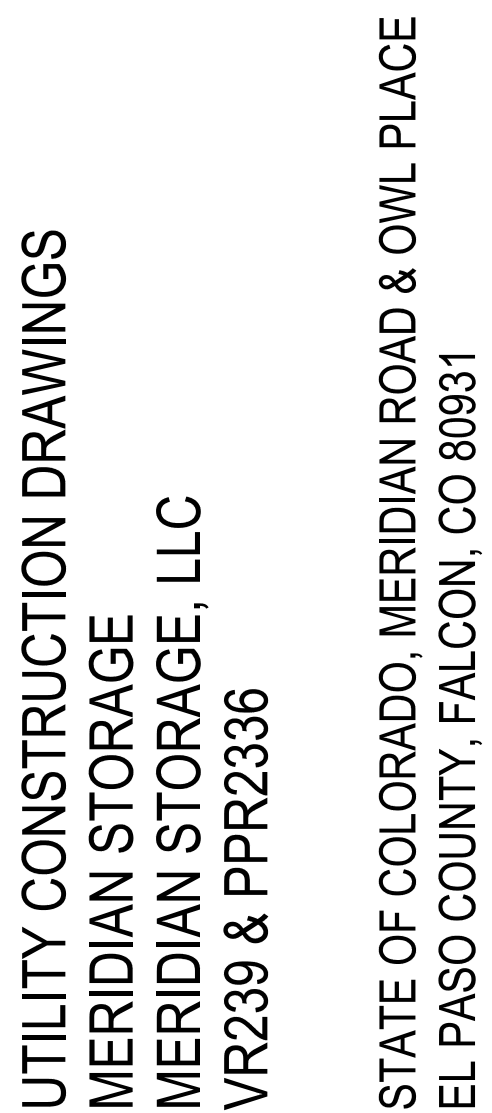
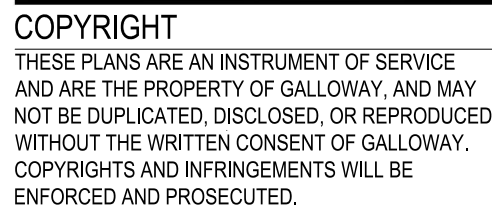


SANITARY—LINE C (STA: 0+75 – 6+69.38)

SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'

SANITARY—LINE D (STA: 0+75 - 1+75)

SCALES: HORIZONTAL 1"=30', VERTICAL 1"=6'



Project No:	MRS01
Drawn By:	JDM, BLB
Checked By:	BAS, CMWJ
Date:	08/04/2025

DUCTILE IRON PIPE

MECHANICAL JOINT CONNECTION

PIPE MUST BE CUT AT RIGHT ANGLES TO LONGITUDINAL CENTERLINE IN ALL CASES.

PIPE ENDS SHALL BE FREE OF BURRS.

MORTAR LINING SHALL BE FLUSH WITH PIPE ENDS.

COUGES CUT IN PIPE ENDS SHALL NOT BE ALLOWED.

DUCTILE IRON PIPE

SLIP JOINT CONNECTION

PIPE CUT IN STRAIGHT LINE AND REVEALED AT 45° ANGLE ON END.

GENERAL NOTES:

1. ALL PIPE CUTTING EQUIPMENT AND PIPE CUTS MUST BE APPROVED BY THE WATER AND SANITATION DISTRICT INSPECTOR.
2. ALL PIPE ENDS TO BE USED IN INSTALLATION SHALL BE DRESSED SMOOTH TO THE SATISFACTION OF THE INSPECTOR PRIOR TO INSTALLATION.
3. AT THE REQUEST OF THE CONTRACTOR MAKING THE INSTALLATION, THE DISTRICT WILL MAKE PIPE CUTS, PROVIDED THE CURRENT FEE PER CUT IS PAID AND 24-HOUR NOTICE IS GIVEN (THE CURRENT FEE IS SUBJECT TO CHANGE.)
4. ALL DIP DELIVERED TO JOB SITE MUST BE NEW MATERIAL.

PLAN
DEAD-END OR
REAR-ANCHOR

ELEVATION
DEAD-END OR
REVERSE ANCHOR

DIAMETER (in)	PRESSURE (psi)	x (in)	Ax (in)	y (in)	Ay (in)	Ab (in)	h (in)	Vol (cu)
2	250	12	72	12	28.80	6.80	18	1.0
4	250	18	84	12	30.80	9.73	18	1.0
6	250	36	120	12	33.05	18.53	18	1.5
12	170	36	120	10	43.20	24.60	18	2.0
12	250	48	144	18	49.20	36.80	24	3.75
16	170	54	156	18	53.40	44.05	24	4.25
16	250	60	168	24	65.40	60.50	36	8.5

NOTES:

1. THE MINIMUM BEARING SURFACE AREAS SHOWN ARE BASED ON A MAX. STATIC PIPE PRESSURE OF 170/250 POUNDS PER SQUARE INCH PLUS A SAFETY FACTOR OF 1.5, AND AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT. FOR HIGHER ADDITIONAL ASSUMPTIONS INCLUDE A MAX OFF TEMPERATURE CHANGE AND A POISSON RATIO OF 0.45. REFERENCE AWWA W-23, M-41, AND W-55.
2. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. SITE WATERS FROM THE ASSUMPTIONS, THE DESIGN ENGINEER SHALL PROVIDE A SITE-SPECIFIC DESIGN THAT SHALL BE IN ACCORDANCE WITH AWWA W-23, PIPE DESIGN AND INSTALLATION, AND AWWA M-41, DUCTILE IRON PIPE, AND FITTINGS. SITE-SPECIFIC DESIGN USING BEST PRACTICE INFORMATION SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL.
3. THE MINIMUM LATERAL BEARING SURFACE AREA (Ax) AND APPROXIMATE VOLUME OF CONCRETE (Vol) SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE REVERSE ANCHORS.
4. THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM DIMENSIONS IN THE TABLE. THE APPROXIMATE VOLUME IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.
5. A SITE-SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 16 INCHES OR MAX. STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE-SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX. STATIC PRESSURES LESS THAN THE PRESSURES LISTED IN THE TABLE.
6. SOFT ROADS WITH EXCESS DEFORMATION TENDENCY TO MULE THE ANCHOR.
7. A TRENCH WIDTH OF 4 FEET AND 6 INCHES UNDER THE PIPE ARE ASSUMED FOR BEARING CALCULATIONS. (Aa, Ay, AND Ab).
8. THE DESIGN ENGINEER SHALL DETERMINE THE CONSTRUCTION OF THE CONCRETE REVERSE ANCHOR SHALL NOT COME IN CONTACT WITH OTHER UTILITIES.
9. DUCTILE IRON FITTINGS AND PIPE SHALL BE WRAPPED IN POLYETHYLENE TUBING NEAR ADJACENT TO CONCRETE.

NOTE:
USE DETAIL "B" WHEN
INSTALLING TO ADJACENT
ELEVATION

NOTE:
1. IF APPROPRIATE LOCATION FOR DISCHARGED WATER CANNOT BE REACHED BY ROLLING THE BEND, ADDITIONAL BENDS MAY BE REQUIRED BY THE DISTRICT INSPECTOR.

2. COAT THE RODS, BEAM, AND GALVANIZED STEEL PIPE WITH EPOXY POLYAMIDE COATING, 10 MILS THICK, MIN.

3. EXISTING BLOW-OFF ASSEMBLY MUST BE ADEQUATELY SUPPORTED, CONCRETE PIER STONES MAY BE REQUIRED.

4. PIPE DROP APPROVED FOR USE IN POTABLE WATER SYSTEMS MUST BE USED ON ALL THREADED FITTINGS.

5. TEMPORARY BLOW-OFF VALVE ASSEMBLIES SHALL BE INSPECTED BY THE DISTRICT INSPECTOR PRIOR TO BACKFILL. INSTALL COMPACTOR TO BE SAME AS PIPE COMPACTOR SPECIFICATIONS.

6. 2" GALVANIZED PIPE MUST BE RATED TO 250 PSI AND CONFORM TO NSF-61 SPECIFICATIONS.

7. THE DISTRICT INSPECTOR MAY REQUIRE TEE-BACK RODS IN ADDITION TO THE MJ RESTRAINTS DEPENDING ON FIELD CONDITIONS AND SYSTEM PRESSURES.

DESIGN: CDM/SGS CHECK: WPH/ST 03/11 DATE: 3-1-11	REVISION: 03/06/2011 REVISION:	WOODMEN HILLS METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	W-22
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TEMP BLOW-OFF ASSEMBLIES - 4", 6", & 8" MAINS W/MJ PLUG

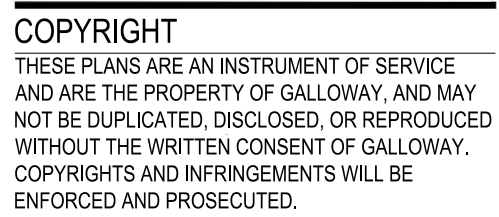
The drawing consists of two views: a Plan View (N.T.S.) and a Profile View (N.T.S.).

Plan View (N.T.S.): This view shows the top-down layout of the tapping operation. A horizontal "BRANCH PIPE" is shown with a "TAPPING SLEEVE AND VALVE" attached. To the left, a "WATER MAIN" is shown with a "TAPPING SLEEVE AND VALVE" also attached. The "EDGE OF TAP EXCAVATION" is indicated by a dashed line. The "EDGE OF DITCH" is indicated by a solid line. A dimension line shows a distance of "8'-0\" (TAPS 4' & LARGER)" between the tapping sleeves. The ground surface is indicated by a line with downward-pointing triangles.

Profile View (N.T.S.): This view shows the side elevation of the tapping operation. The "TAPPING SLEEVE & VALVE" is shown in cross-section, with the "BRANCH PIPE" below it. The "UNDISTURBED EARTH (TYP.)" is shown on the left. The "TSP OF GROUND" is indicated by a line with downward-pointing triangles. The "TAPPING SLEEVE & VALVE" is shown with a "PLACE 3/4\" ROCK BELOW TAPPING SLEEVE AND VALVE TO SPRINGING OF PIPE". Below the rock, a note states: "IN WET AND/OR UNSTABLE GROUND, THE FRENCH BOTTOM SHALL BE BROUGHT TO GRADE WITH 1'-5\" ROCK TO SUPPORT THROUST BLOCK".

PIPE TAPPING DETAIL

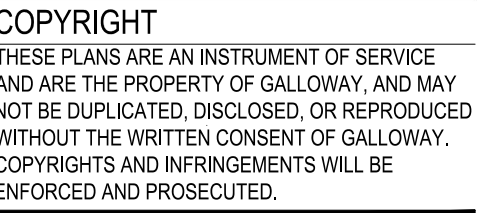
PROFILE VIEW
N.T.S.

[illegible]

WATER DETAIL SHEET 3

U4.3
Sheet 10 of 12





UTILITY CONSTRUCTION DRAWINGS

MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
VR239 & PPR2336

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

[illegible]

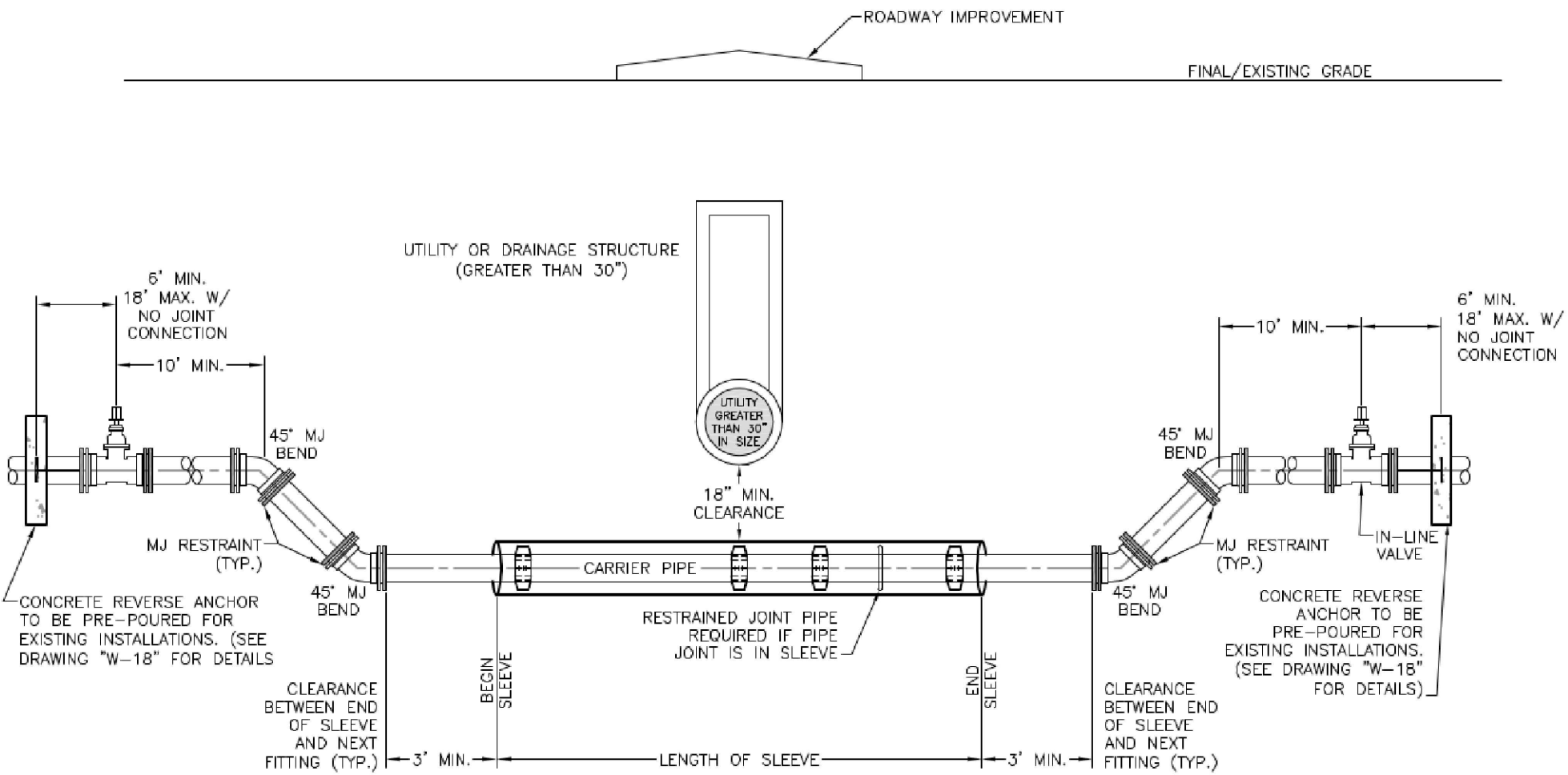
Project No:	MRS01
Drawn By:	JDM, BLB
Checked By:	BAS, CMWJ
Date:	08/04/2025

WATER DETAIL SHEET 4

VR239 & PPR2336

U4.4

Sheet 11 of 12

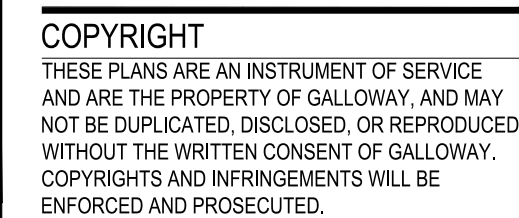


NOTES:

1. 3/4" ALL-THREAD TO BE USED FROM VALVE TO REVERSE ANCHOR AND FROM UPPER BEND TO VALVE.
2. IF A JOINT IS LOCATED BETWEEN ANY FITTINGS INCORPORATED INTO THE LOWERING, BELL/JOINT RESTRAINTS MUST BE USED.
3. CASING PIPE MUST BE CLEAN AND FREE OF ALL DIRT AND DEBRIS BEFORE INSTALLING CARRIER PIPE AND BEFORE INSTALLING END SEALS.
4. CARRIER PIPE SHALL BE DIP, UNLESS OTHERWISE APPROVED.
5. FURNISH AND INSTALL JOINT BONDING, POLYETHYLENE TUBING, AND 17 LB. MAGNESIUM ANODE ON DIP LOWERING PER STANDARD SPECIFICATIONS.
6. FURNISH AND INSTALL ONE 17 LB. MAGNESIUM ANODE PER 20 FEET OR LESS OF CASING PIPE.
7. ENTIRE LENGTH OF LOWERING (FROM VERTICAL BEND TO LOWER VERTICAL BEND) SHALL REST DN 18" MINIMUM OF 3/4" ROCK BELOW CASING AND UP TO SPRINGLINE OF CASING AND CARRIER PIPE.

LOWERING DETAIL W/CASING UTILITY CROSSING GREATER THAN 30"

Drawn: SUG	Revised: DECEMBER 2021	 WOODMEN HILLS WATER & WASTEWATER SYSTEM METROPOLITAN DISTRICT STANDARD SPECIFICATIONS
Date: MARCH, 2011	Revised:	
Scale: N.T.S.	Revised:	

[illegible]

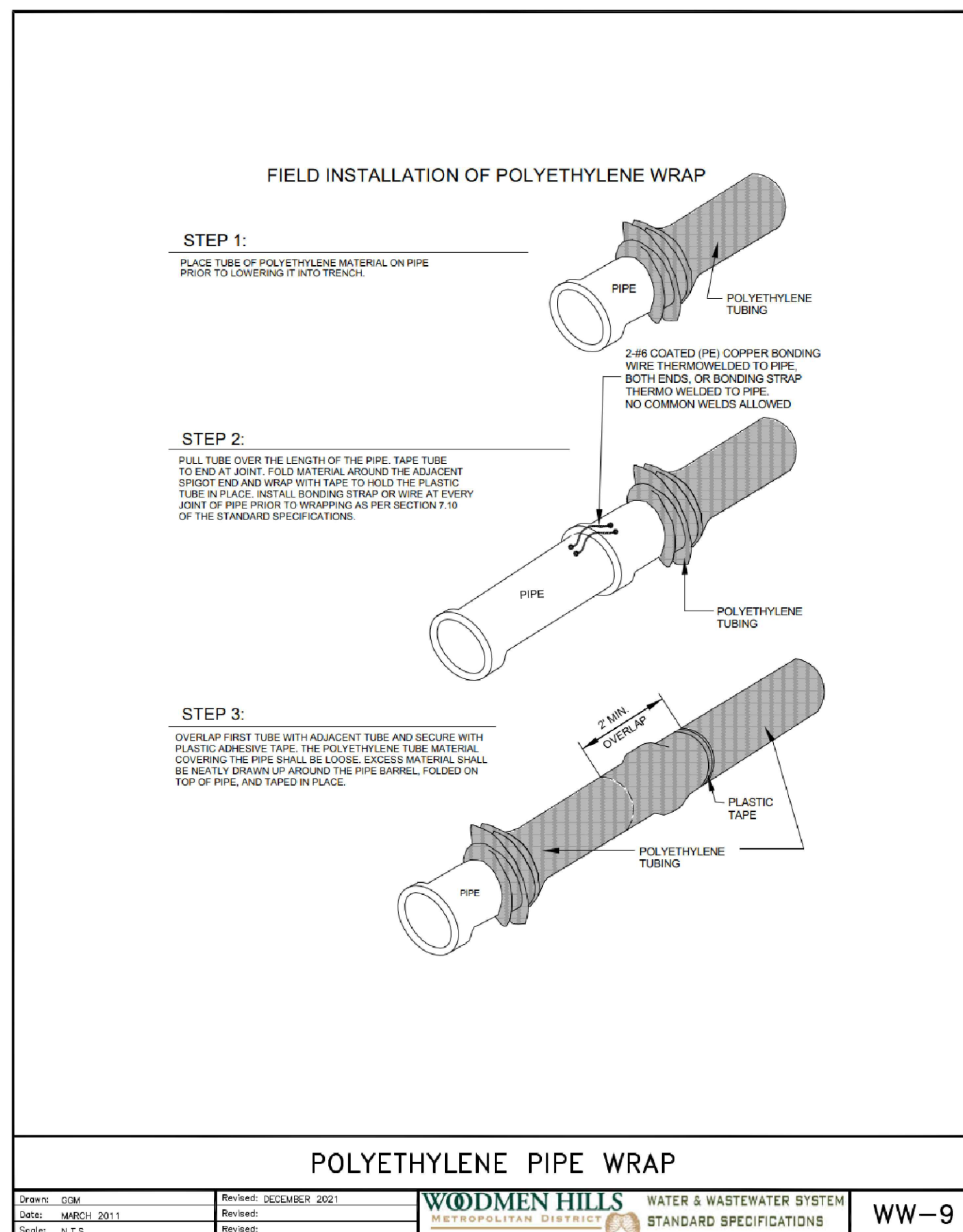
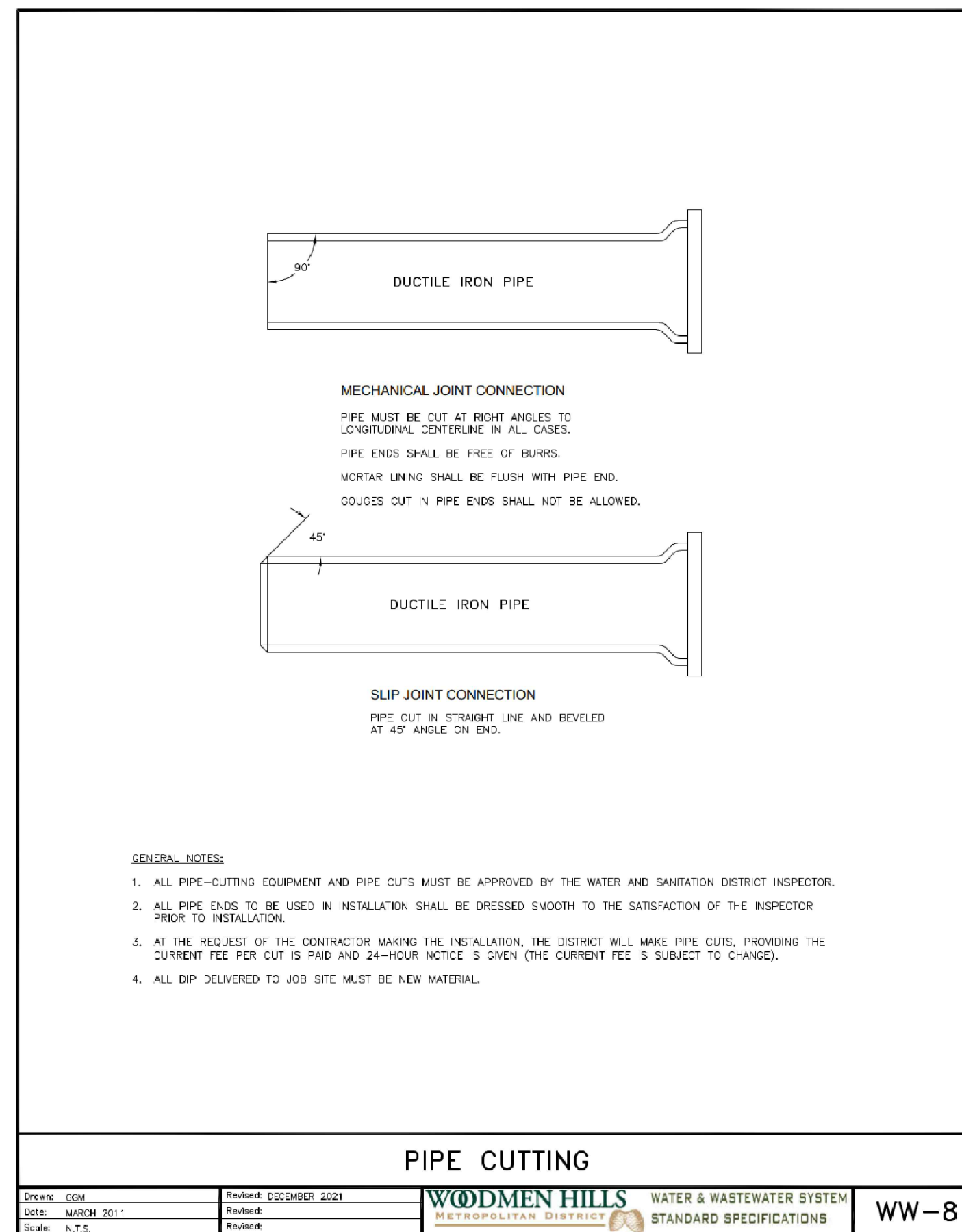
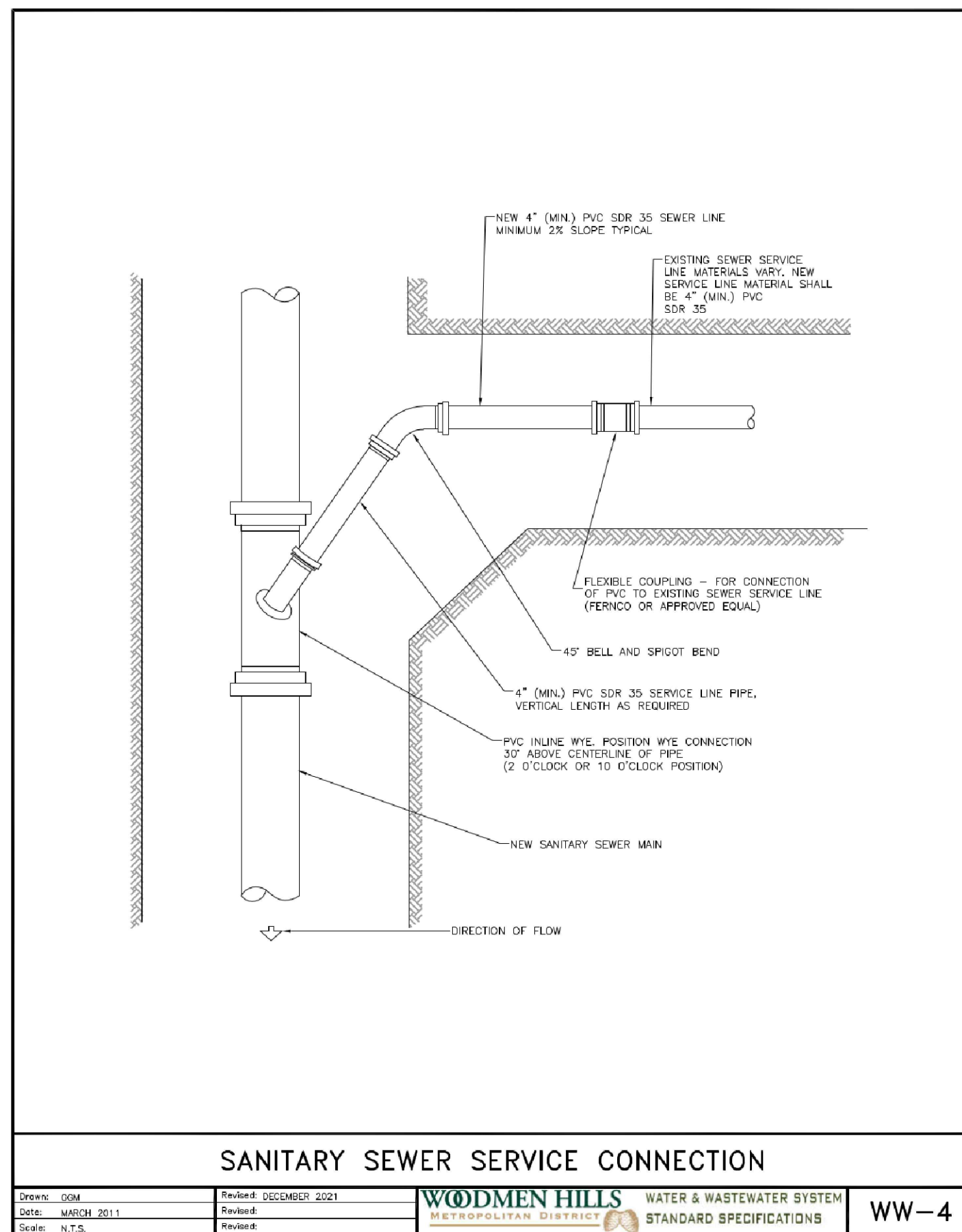
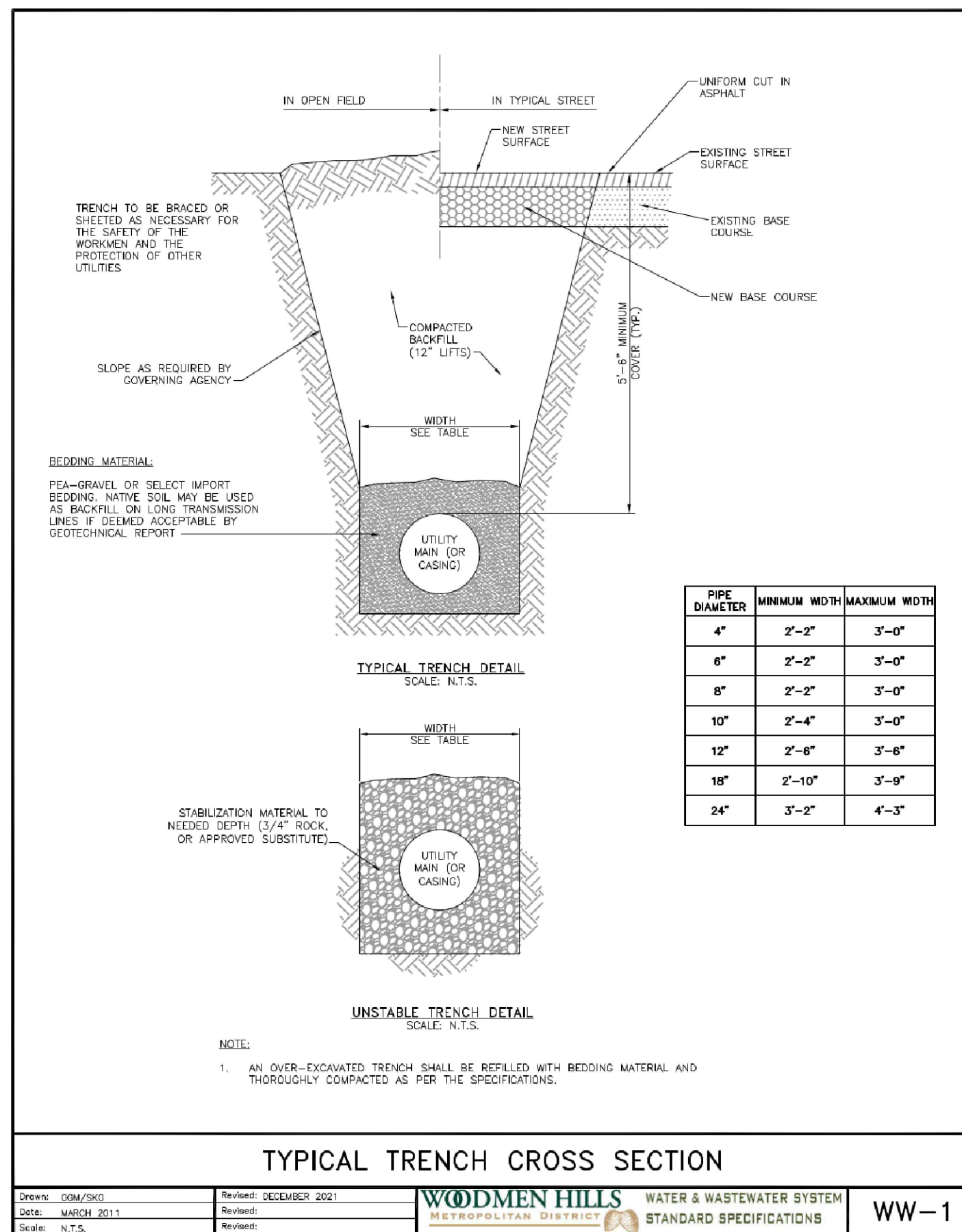
Project No:	MRS01
Drawn By:	JDM, BLB
Checked By:	BAS, CMWJ
Date:	08/04/2025

WASTEWATER DETAIL
SHEET 1

VR239 & PPR2336

VR239 & PPR2336

U5.1
Sheet 12 of 12



MAXIMUM DEFLECTION
PER SLIP JOINT OF D.I.P.

PIPE DIAMETER			MFRS. DEF'L	DESIGN DEFLECTION (80% MAX.)		APPROX. RADIUS FOR DEFLECTING CURVES WITHOUT BENDS	
I.D. (IN)	O.D. (IN)	O.D. (F.T)		MAX. DEF. DIST		20' L	18' L
				(1)	(2)		
4"	4.80"	.402'	5'00'00"	4'00'00"	16"	286'	258'
6"	6.90"	.572'	5'00'00"	4'00'00"	16"	286'	258'
8"	9.05"	.754'	5'00'00"	4'00'00"	16"	286'	258'
10"	11.10"	.925'	5'00'00"	4'00'00"	16"	286'	258'
12"	13.00"	1.100'	5'00'00"	4'00'00"	16"	286'	258'
14"	15.20"	1.272'	5'00'00"	2'24'00"	10"	477'	430'
16"	17.40"	1.450'	5'00'00"	2'24'00"	10"	477'	430'
18"	19.50"	1.625'	5'00'00"	2'24'00"	10"	477'	430'
20"	21.60"	1.800'	5'00'00"	2'24'00"	10"	477'	430'
24"	25.80"	2.150'	5'00'00"	2'24'00"	10"	477'	430'
30"	32.50"	2.686'	2'30'00"	2'00'00"	8"	716'	645'
36"	38.30"	3.192'	2'00'00"	1'36'00"	6"	716'	645'
42"	44.50"	3.708'	2'00'00"	1'36'00"	6"	716'	645'

(1) 20' L = NORMAL 20-FOOT JOINT LAYING LENGTH
(2) 18' L = NORMAL 18-FOOT JOINT LAYING LENGTH

MAXIMUM PIPELINE DEFLECTION DATA

Drawn: _____
DATE: MARCH 2011

Revised: OCCURRED 2011
Revised: _____

WOODMEN HILLS
METROPOLITAN DISTRICT

WATER & WASTEWATER SYSTEM
STANDARD SPECIFICATIONS

WW-11

