ELEVATION

DEEP LATERAL CONNECTION

NOT TO SCALE

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STANDARD CONSTRUCTION DETAILS **FOR**

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



ELEVATION

NOTE:
MARKER SHALL BE INSTALLED UPON REQUEST OF MUNICIPAL AUTHORITY OR
LATERAL SHOULD BE BACKFILLED PRIOR TO CONNECTION TO BUIDLING SEWER.

STANDARD LATERAL DETAIL NOT TO SCALE

PROJECT	#:	00	320	7.0)43	0
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STANDARD CONSTRUCTION DETAILS **FOR**

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



FILE PATH & NAME: P:\0032\003207_0430\030\DET\LOWER MAHANOY DETAIL SET.A#g LAYOUT:STANDARD LATERAL CONNECTION LAST PLOTTED:11/19/2025 4:25 PM BY:BTOWNSENI

2. CLEAN OUT SHALL BE PLACED EVERY 100 LINEAR FEET, MAXIMUM OR AT ANY CHANGE IN DIRECTION

3. MARKER SHALL BE INSTALLED UPON REQUEST OF MUNICIPAL AUTHORITY OR LATERAL SHOULD BE BACKFILLED PRIOR TO CONNECTION TO BUIDLING SEWER.

PAVED CLEANOUT DETAIL

NOT TO SCALE

PROJECT	#:	00	320	7.0	43	0
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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



LAST PLOTTED: 11/19/2025 4:25 PM BY: BTOWNSENE FILE PATH & NAME:

NOTES

1. PERMANENTLY NOTE DEPTH OF LATERAL ON THE LATERAL MARKER.

2. CLEAN OUT SHALL BE PLACED EVERY 100 LINEAR FEET, MAXIMUM OR AT ANY CHANGE IN DIRECTION

3. MARKER SHALL BE INSTALLED UPON REQUEST OF MUNICIPAL AUTHORITY OR LATERAL SHOULD BE BACKFILLED PRIOR TO CONNECTION TO BUIDLING SEWER.

GRASS CLEANOUT DETAIL

PROJECT	#:	00	320	7.	043	30
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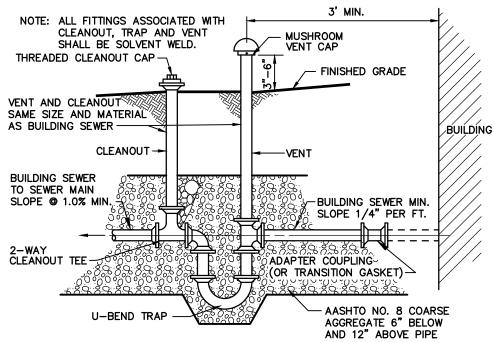
STANDARD CONSTRUCTION DETAILS **FOR LOWER MAHANOY TOWNSHIP**

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



LAST PLOTTED: 11/19/2025 4: 26 PM BY: BTOWNSENC

FILE PATH & NAME:



NOTES:

 CLEANOUTS PLACED EVERY 100 FEET BETWEEN THE TAPPED IN VENT AND THE CONNECTION ON THE ROADWAY.

TRAP AND VENT DETAIL

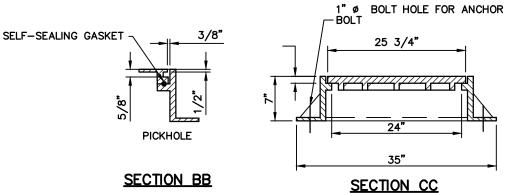
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PROJECT	#:	00	320	7.0430

STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY





NOTES:

- 1. 1" STAINLESS STEEL ANCHOIR BOLTS REQUIRED.
- 2. COVERS TO HAVE SELF-SEALING GASKETS.

STANDARD MANHOLE FRAME AND COVER

NOT TO SCALE

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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



FILE PATH & NAME: P:\0032\003207_0430\C3D\DET\LOMER MAHANOY DETAL SET.dwg LAYOUT:STANDARD MANHOLE COVER LAST PLOTTED:11/19/2025 4:28 PM BY:BTOWNSENI

4 - 5/8"ø BOLT HOLES

2. COVERS TO HAVE SELF-SEALING GASKETS.

WATERTIGHT MANHOLE FRAME AND COVER

NOT TO SCALE

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STANDARD CONSTRUCTION DETAILS **FOR**

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY



PRECAST SANITARY SEWER MANHOLE DETAIL

NOT TO SCALE

- NOTES:

 1. FOR MANHOLES IN PAVED AREAS, INSTALL FRAME AND COVERS
 1/8" BELOW FINAL PAVEMENT GRADE.
- 2. THE ENTIRE OUTER SURFACE OF THE MANHOLE SHALL BE COATED WITH 2 COATS COAL TAR EPOXY.
- 3. 100% COMPACTION OF MANHOLE BACKFILL REQUIRED.

PROJECT #: 003207.0430
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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



SANITARY SEWER DROP MANHOLE DETAIL

NOT TO SCALE

PROJECT #: 003207.0430

DATE: SEPTEMBER 2025

SCALE: NOT TO SCALE

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STANDARD CONSTRUCTION DETAILS FOR

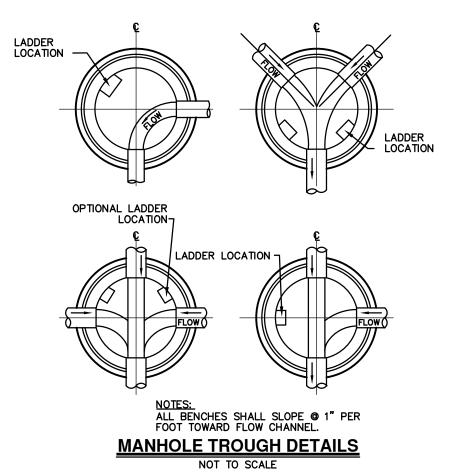
LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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DATE: SEPTEMBER 2025
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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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SHEET:

FOR
LOWER MAHANOY TOWNSHIP

MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

STANDARD CONSTRUCTION DETAILS



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TYPICAL METHOD OF BEDDING & BACKFILLING SANITARY MAINS

NOT TO SCALE

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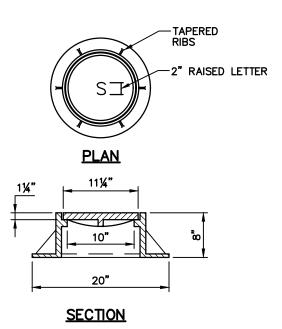
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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY





NOTES:
1. LABEL COVER "S" OR "SEWER"

STANDARD CLEANOUT FRAME AND COVER NOT TO SCALE

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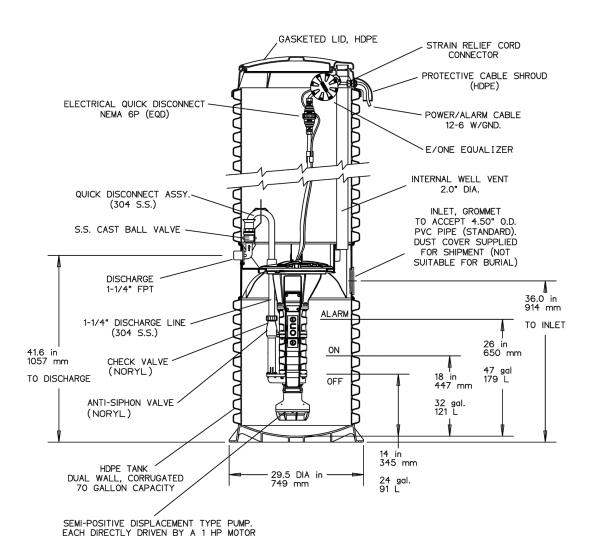
STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTION FOR DETAILS

ON-SITE EONE SIMPLEX GRINDER PUMP

NOT TO SCALE

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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY



NOTES:

- TRACER WIRE SHALL BE LOOSELY AFFIXED TO EACH LATERAL UTILIZING ZIP TIES (OR SIMILAR METHODS) AND BROUGHT TO THE SURFACE AT THE CURB STOP VALVE BOX. CONTRACTOR TO PROVIDE A MINIMUM 36" LENGTH EXCESS AT TERMINAL END TO FACILITATE LOCATER CONNECTIONS. CONTRACTOR SHALL PROVIDE HOLE FOR TRACER WIRE TO ENTER VALVE BOX.
- 2. ALL LOW PRESSURE LATERAL CONNECTIONS CROSSING PENNDOT OR TOWNSHIP ROADWAYS SHALL BE INSTALLED WITH TRENCHLESS METHODS.

LOW PRESSURE LATERAL CONNECTION TO A GRAVITY SEWER

NOT TO SCALE

PROJECT	#: 0032	07.0430
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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



LAST PLOTTED: 11/19/2025 4: 26 PM BY: BTO

MAHANOY DETAIL SET. dwg LAYOUT: LOW PRES LAT CNX TO A GRAVITY SEWER

NOTES:
CONTROL PANELS SHALL BE EONE T260 SERIES, OR EQUIVALENT,
FROM THE MANUFACTURER WITH SENTRY®; THE FOLLOWING OPTIONS
INCLUDED: INDICATOR LIGHT, AUDIBLE ALARM, HOUR METER,
GENERATOR RECEPTACLE WITH AUTO TRANSFER, AND AUTO DIALER.
A GFCI RECEPTACLE SHALL BE INSTALLED BESIDE THE CONTROL
PANEL.

ON-SITE GRINDER PUMP CONTROL PANEL

NOT TO SCALE

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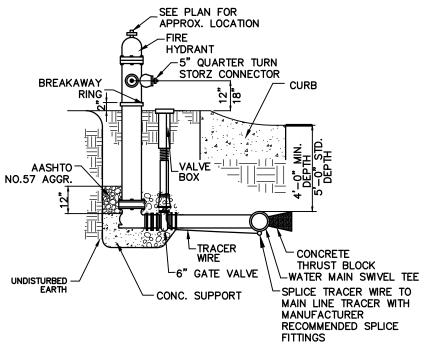
STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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NOTES:

DRAIN HOLE IN HYDRANT MUST NOT BE OBSTRUCTED W/ CONCRETE. TRACER WIRE SHALL BE LOOSELY AFFIXED TO WATER MAIN UTILIZING ZIP TIES (OR SIMILAR METHODS) AND BROUGHT TO THE SURFACE AT THE GATE VALVE BOX OR CURB STOP BOX. CONTRACTOR TO PROVIDE A MINIMUM TWELVE—INCH LENGTH EXCESS AT EACH TERMINAL END TO

FACILITATE LOCATOR CONNECTIONS.

FIRE HYDRANT SETTING DETAIL

NOT TO SCALE

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PROJECT	#: 00320	7.0430

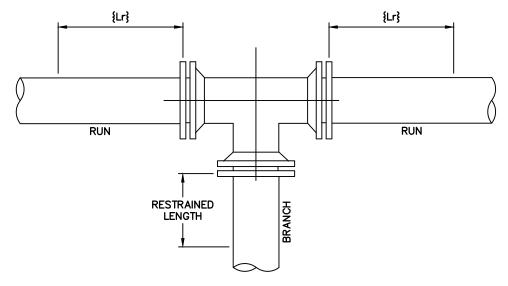
STANDARD CONSTRUCTION DETAILS **FOR**

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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			MINI	MUM A	TTACH	ED LEN	IGTH O	F PIPE	(Lr)		
TEE SIZE	0'	2,	4'	6'	8,	10'	12'	14'	16'	18'	20'
		MINIMUM LENGTH OF RESTRAINED BRANCH									
6"x6"	31'	23'	15'	8,	1'	1'	1'	1'	1'	1'	1'
8"x6"	31'	21'	10'	1'	1'	1'	1'	1'	1'	1'	1'
10"x6"	31'	18'	5'	1'	1'	1'	1'	1'	1'	1'	1'
10"x8"	41'	31'	21'	11'	1'	1'	1'	1'	1'	1'	1'
12"x6"	31'	15'	1'	1'	1'	1,	1,	1'	1'	1'	1'

^{*} THE MINIMUM ATTACHED LENGTH OF PIPE (Lr) TO EXTEND IN EACH DIRECTION ALONG THE RUN OF THE TEE SHALL BE A SOLID PIPE WITHOUT JOINTS, FITTINGS, ETC.

TEES LENGTH OF RESTRAINED JOINTS

NOT TO SCALE

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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY



	MINIMUM RESTRAINED LENGTH OF PIPE (Lr)							
PIPE SIZES		TO EXTEND IN BOTH DIRECTIONS						
FIFE SIZES		BEND SIZES						
	11.25°	22.5°	45°	90 ° *				
6"	2,	4'	8'	19'				
8"	3'	5'	10'	25'				
10"	3'	6'	13'	30'				
12"	4'	7'	15'	34'				
14"	4'	8'	17'	39'				
16"	5'	9,	18'	44'				
18"	5'	10'	20'	48'				
20"	6'	11'	22'	53'				
24"	6'	12'	26'	61'				

^{*} ONLY ALLOWED UNDER THE DIRECTION OF THE OWNER AND ENGINEER.

HORIZONTAL BENDS LENGTH OF RESTRAINED JOINTS

NOT TO SCALE

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DATE:	SEPTEMBE	R 2025
PROJECT	#: 00320	7.0430

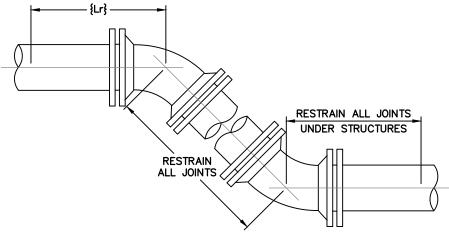
STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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PIPE SIZES	MINIMUM RESTRAINED LENGTH OF PIPE (Lr) TO BE RESTRAINED ON BOTH SIDES OF THE VERTICAL OFFSET						
FIFE SIZES		BEND SIZES					
	11.25°	22.5°	45°	90°			
6"	9,	18'	39'	*			
8"	12'	24'	50'	*			
10"	14'	29'	60'	*			
12"	17'	34'	72 [']	*			
14"	19'	39'	82'	*			
16"	22'	44'	92'	*			
18"	24'	49'	102'	*			
20"	26'	54'	112'	*			
24"	31 '	63'	131'	*			

^{*} NOT ALLOWED

VERTICAL OFFSET LENGTH OF RESTRAINED JOINTS

NOT TO SCALE

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FOR LOWER MAHANOY TOWNSHIP

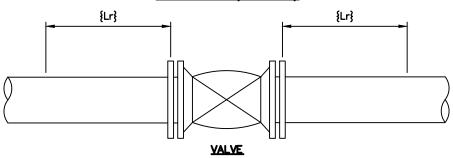
MUNICIPAL AUTHORITY

STANDARD CONSTRUCTION DETAILS

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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PIPE SIZE	MINIMUM RESTRAINED LENGTH OF PIPE (Lr)
6"	48'
8"	62'
10"	75'
12"	88'
14"	100'
16"	113'
18"	125'
20"	136'
24"	160'

DEAD ENDS AND VALVES LENGTH OF RESTRAINED JOINTS

NOT TO SCALE

PROJECT #: 003207.0430
DATE: SEPTEMBER 2025
SCALE: NOT TO SCALE
PM: JLS

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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY



- NOTES:

 1. IF JOINT ON WATER MAIN IS WITHIN LIMITS OF SANITARY SEWER TRENCH INSTALL MECHANICAL BELL JOINT CLAMP.
- 2. IF CLEARANCE IS LESS THAN 18", CONCRETE ENCASE SANITARY SEWER PIPE 10 FT. EACH SIDE OF WATER MAIN. TO BE PAID AT UNIT PRICE BID PER CUBIC YARD OF CONCRETE.
- 3. IN NO CASE SHALL THE SANITARY SEWER PIPE CONTACT ANY WATER MAIN, SERVICE LINE OR APPURTENANCE.

VERTICAL WATER MAIN CLEARANCE

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STANDARD CONSTRUCTION DETAILS **FOR**

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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NOTES:

- 1. EXISTING CURB STOP & SERVICE BOX SHALL BE REMOVED FROM EXISTING SERVICE LINE AND PROPOSED CURB STOP & SERVICE BOX SHALL BE INSTALLED
- 2. THE EXISTING SERVICE LINE SHALL BE FREE OF DEFECTS PRIOR TO INSTALLING NEW CURB STOP
- 3. SHOULD A SERVICE LINE BE ENCOUNTERED MADE OF A MATERIAL THAT CANNOT BE COUPLED, CONTACT OWNER IMMEDIATELY.

SERVICE LINE DETAIL

NOT TO SCALE

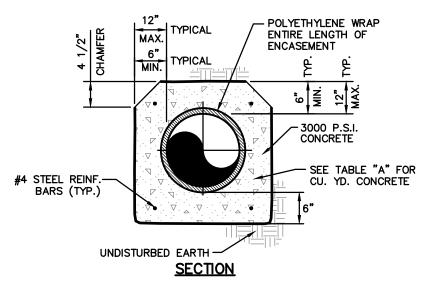
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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA





CONCRETE ENCASEMENT DETAIL

NOT TO SCALE

	TABLE A					
PIPE SIZE	TOTAL CU. YRDS CONCRETE PER LIN. FT. OF PIPE					
4"	0.1213					
6"	0.1409					
8"	0.1609					
10"	0.1815					
12"	0.2024					
15"	0.2346					
18"	0.2679					
21"	0.3022					
24"	0.3374					
30"	0.4109					

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PROJECT	#: 00320	7.0430

STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY



NU IES:

1. IF EXTENSIONS ARE NECESSARY CONTRACTOR SHALL SET "PLUMB" AND ALIGN PROPERLY FOR ACCESS TO OPERATING NUT.

2. TRACER WIRE SHALL BE LOOSELY AFFIXED TO WATER MAIN UTILIZING ZIP TIES (OR SIMILAR METHODS) AND BROUGHT TO THE SURFACE AT THE GATE VALVE BOX OR CURB STOP BOX. CONTRACTOR TO PROVIDE A MINIMUM TWELVE—INCH LENGTH EXCESS AT EACH TERMINAL END TO FACILITATE LOCATOR CONNECTIONS.

GATE VALVE & VALVE BOX DETAIL

NOT TO SCALE

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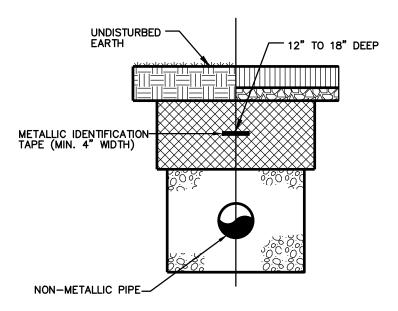
STANDARD CONSTRUCTION DETAILS **FOR**

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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INSTALLATION DETAIL IDENTIFICATION TAPE

NOT TO SCALE

PROJECT #: 003207.0430
DATE: SEPTEMBER 2025
SCALE: NOT TO SCALE
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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



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- TYPE A CEMENT CONCRETE SAND. BACKFILL DEPTH SHALL BE 18
- 3. DUCTILE IRON PIPE SHALL BE POLY-WRAPPED AND TAPED.

TYPICAL METHOD OF BEDDING & BACKFILLING WATER UTILITY TRENCHES

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STANDARD CONSTRUCTION DETAILS **FOR**

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



TRACER WIRE ACCESS POINT DETAIL

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STANDARD CONSTRUCTION DETAILS FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY



NOTES:

- . WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS..
- 2. PROVIDE A MAGNESIUM GROUND ROD AT LOCATIONS AS REQUIRED TO BE ABLE TO LOCATE SYSTEM.

TRACER WIRE SCHEMATIC

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STARDARD CONSTRUCTION DETAILS
FOR

LOWER MAHANOY TOWNSHIP MUNICIPAL AUTHORITY

LOWER MAHANOY TWP, NORTHUMBERLAND COUNTY, PENNSYLVANIA



FILE PATH & NAME: P:\0032\00320\00320\0032\000320\C3D\DET\LOMER MAHANOY DETAIL SET.dwg LAYOUT:TRACER WRE SCHEMATIC LAST PLOTTED:11/19/2025 4:26 PM BY:BTOWNSENI