



WATERLINE RELOCATION NOTES

1. COORDINATE WITH WYMA BEFORE B" WATERLINE RELOCATION TO ENSURE MINIMAL UTILITY SERVICE DISRUPTION. CONTRACTOR SHALL ISOLATE EXISTING 8" WATERLINE BY USING EXISTING 8" GATE VALVES.
2. NEW B" WATER LINE TO BE INSTALLED, TESTED, AND APPROVED BY THE WYMA PRIOR TO CONNECTING TO EXISTING 8" WATERLINE.
3. WATERLINE SHALL HAVE A MINIMUM COVER OF 4'.
4. RELOCATED WATERLINE MATERIAL TO MATCH MATERIAL OF EXISTING WATERLINE.
5. CONCRETE PIERS WILL BE REQUIRED FOR A CROSSING IF THE SEPARATION BETWEEN THE OUTSIDE OF PIPE OF THE NEW WATERLINE AND THE OUTSIDE OF EXISTING WATERLINE EXCEEDS 10' PER WYMA DETAIL C-8-B.
6. ALL WATERLINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS.

WWWA DETAILS & WATERLINE RELOCATION PROFILE

STORMWATER DRAINAGE IMPROVEMENTS
FOR
DEYERLE ROAD, S.W.
PREPARED FOR
THE CITY OF ROANOKE, VIRGINIA

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

DATE: January 7, 2020

SCALE: 1" = 30'

COMMISSION NO: 19-007

SHEET 9 OF 9

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Diagram illustrating the connection of a tracer wire to a ground bay and a tracer safe. The ground bay is connected to a ground wire and a tracer wire. The tracer wire is connected to a tracer safe. The diagram also shows a tracer wire connected to a ground bay and a tracer safe, with a note indicating the connection is made to the ground bay and the tracer safe.

Labels in the diagram include: GROUND BAY, GROUND WIRE, TO GROUNDING SOURCE, 1/2" TRACER SAFE, LOCATING CLIP (T319A-L-C), 1/2" TRACER WIRE ACCESS BOX, 3.18", and 1.12".

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

TRACER WIRE FOR NON-METALLIC DISBURSE PIPE

G-4

The diagram illustrates a vertical pipe section with the following details:

- Supports:** Two concrete supports are shown. The first support is labeled "STEEL RINGS OR OTHER DEVICES". The second support is labeled "PIER AT NEAREST POINT OF ANCHORAGE".
- Clearance:** A vertical clearance of "8" MIN" is indicated between the top of the first support and the bottom of the pipe.
- Dimensions:**
 - L : Total length of the pipe section.
 - $L/2$: Distance from the center of the first support to the center of the second support.
 - $L/4$: Distance from the center of the first support to the center of the second support (labeled as $L/4$ MIN).
 - $L/4$: Distance from the center of the second support to the center of the first support (labeled as $L/4$ MIN).
- Labels:**
 - "PROPOSED PIPE" with an arrow pointing to the pipe.
 - "PIER AT NEAREST POINT OF ANCHORAGE" with an arrow pointing to the second support.
 - "STEEL RINGS OR OTHER DEVICES" with an arrow pointing to the first support.

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1. FILTER FABRIC TO BE INSTALLED BETWEEN BOTTOM OF PIPE AND STONE BEDDING. FABRIC TO EXTEND VERTICALLY A MINIMUM OF 6" FROM BOTTOM OF WALL (ALL CIRCUMFERENCES)

Labels in diagram include:

- ADJUSTMENT RINGS
- ADJUSTMENT
- GROUND-WATER PIPE (GENERAL DETAIL)
- PROPOSED VALVE
- 30° 2" MIN. TYP.
- CAPITAL TOWNSHIPS (MIDWEST) NON-IMP. TIGHTENING FRAME & COVER LUGS - PATENT
- 12" MAX. VERTICAL ADJUSTMENT
- PREDCAST INTER VALVE VALVE OR PRECAST MANHOLE SECTION OF 12" BY 12" SIZES 6-8
- TRIANGULAR JOINTS BETWEEN SECTIONS
- FILTER FABRIC
- CONCRETE FROM TOP OF PIPE TO BOTTOM OF MANHOLE CAP

3. ENGRAVED		INSTALLED AT A MINIMUM OF 6" OVER CENTER											
FOR NEW BUILT THURST BULL TO BE COATED TO MATCH EXISTING		TO MATCH EXISTING THURST BULL TO BE COATED TO MATCH EXISTING											
GLANDS AND TUBS SHALL BE PROTECTED FROM		WHEN THURST BULL IS COATED TO MATCH EXISTING											
TRAILER COATINGS		WHEN THURST BULL IS COATED TO MATCH EXISTING											
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Maximum and Deflection Pipe Length of Pipes - Mechanical and Pipe				Maximum Offset of Pipes		Maximum Deflection of Pipes	
				Substation of Pipes		Substation of Pipes	
Nominal Pipe Size (inches)	Angle (degrees)	Length (feet)	Length (meters)	Angle (degrees)	Length (feet)	Angle (degrees)	Length (feet)
3	8-1/2"	11	3.0	125	140		
4	8-1/2"	17	5.0	125	140		
6	8-1/2"	27	8.0	125	140		
8	8-1/2"	37	11.0	125	140		
10	8-1/2"	47	14.0	125	140		
12	8-1/2"	57	17.0	125	140		
14	8-1/2"	67	20.0	125	140		
16	8-1/2"	77	23.0	125	140		
18	8-1/2"	87	26.0	125	140		
20	8-1/2"	97	29.0	125	140		
24	8-1/2"	117	35.0	125	140		