NO SCALE VERSION 1.0

DATE 04/2024

DETAIL 10.8.1

CHART A - RESTRAINED LENGTH REQUIREMENTS PIPE DIA. (INCHES) TOTAL RESTRAINED LENGTH - R.L. - (FT) 64' + CASING LENGTH (C.L.) 4" 77' + CASING LENGTH (C.L.) 109' + CASING LENGTH (C.L.) 8" 140' + CASING LENGTH (C.L.) 10" 169' + CASING LENGTH (C.L.)

196' + CASING LENGTH (C.L.)

249' + CASING LENGTH (C.L.)

CONCRETE THRUST BLOCK (WRAP BEND PER NO. 2) REQUIRED AT BOTTOM BEND NO. 7, IF REQUIRED RESTRAINED LENGTH (R.L.) CAN NOT BE COMPLETELY INSTALLED.

12"

16"

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	CHART B - ROADWAY CASING REQUIREMENTS							
	PIPE DIA.	CASING MIN. DIA.	CASING WALL THICKNESS					
	(INCHES)	(INCHES)	MIN. (INCHES)					
	3"	8"	0.25"					
	4"	8"	0.25"					
	6"	12.75"	0.25"					
	8"	16"	0.25"					
	10"	18"	0.25"					
	12"	20"	0.25"					
	16"	24"	0.25"					

LARGER DIAMETER CASING MAY BE REQUIRED DUE TO LENGTH OF CROSSINGS AND RESTRAINED JOINT DIMENSIONS. SEE PLANS AND SPECIFICATIONS.

PIPE DIA.	CASING MIN. DIA.	CASING WALL THICKNESS	
(INCHES)	(INCHES)	MIN. (INCHES)	
3"	8"	0.25"	
4"	8"	0.25"	
6"	12.75"	0.25"	
8"	16"	0.25"	
10"	18"	0.25"	
12"	20"	0.25"	
16"	24"	0.25"	

	ROADWAY	<b>-</b>		2 3 4 5
			(11)	2
8	9	<b>→</b>		6
<u> </u>	 			7)—A
		PLAN		

**ROADWAY** 

C.L. - CASING LENGTH

R.L. - (RESTRAINED PIPE LENGTH)

**PROFILE** 

8

(MIN.)

13

(10)

## 13 5' MIN. (10) 6 2 (MIN.) A - A SECTION

## DESCRIPTION:

- TAPPING SLEEVE WITH CONCRETE THRUST BLOCKING (REQUIRED). SEE SPECIFICATIONS FOR APPROVED MODELS. SIZE ON SIZE TAPPING SLEEVES SHALL BE MECHANICAL JOINT FULL BODY DUCTILE ONLY.
- WRAP TAPPING SLEEVE WITH 2 LAYERS HDPE PLASTIC FILM (HDCLPE PER AWWA C-105) - 4 MILS. EACH LAYER -EXTEND HDPE 3' EACH WAY FROM FITTINGS - DUCT TAPE ENDS.
- TAPPING VALVE FLANGE X RMJ.
- DUCTILE IRON PIPE SHORT L ≥18".
- RMJ DUCTILE IRON 90° BEND ROTATE DOWN, AS APPROVED.
- DUCTILE IRON PIPE RESTRAINED.
- RMJ DUCTILE IRON 90° BEND ROTATE UP. AS APPROVED. CONCRETE THRUST BLOCKING MAY ALSO BE REQUIRED. SEE NOTE IN CHART A.
- 8. **DUCTILE IRON PIPE - RESTRAINED - SEE** CHART A.
- STEEL CASING SEE CHART B.
- EXISTING WATER MAIN.
- EXISTING INFRASTRUCTURE THAT PREVENTS FRONT SIDE TAP - BACKSIDE TAP WILL BE PERMITTED ONLY WHERE **EXISTING INFRASTRUCTURE PREVENTS** FRONT SIDE TAP, AND REQUIRES CLTW APPROVAL.
- VALVE BOX ASSEMBLY PER CLTW STD. DETAIL.
- VALVE EXTENSION (WHEN OPERATING NUT IS GREATER THAN 3' DEEP).

## NOTE:

TRACER WIRE INSTALLED PER CLTW TRACER WIRE DETAIL.