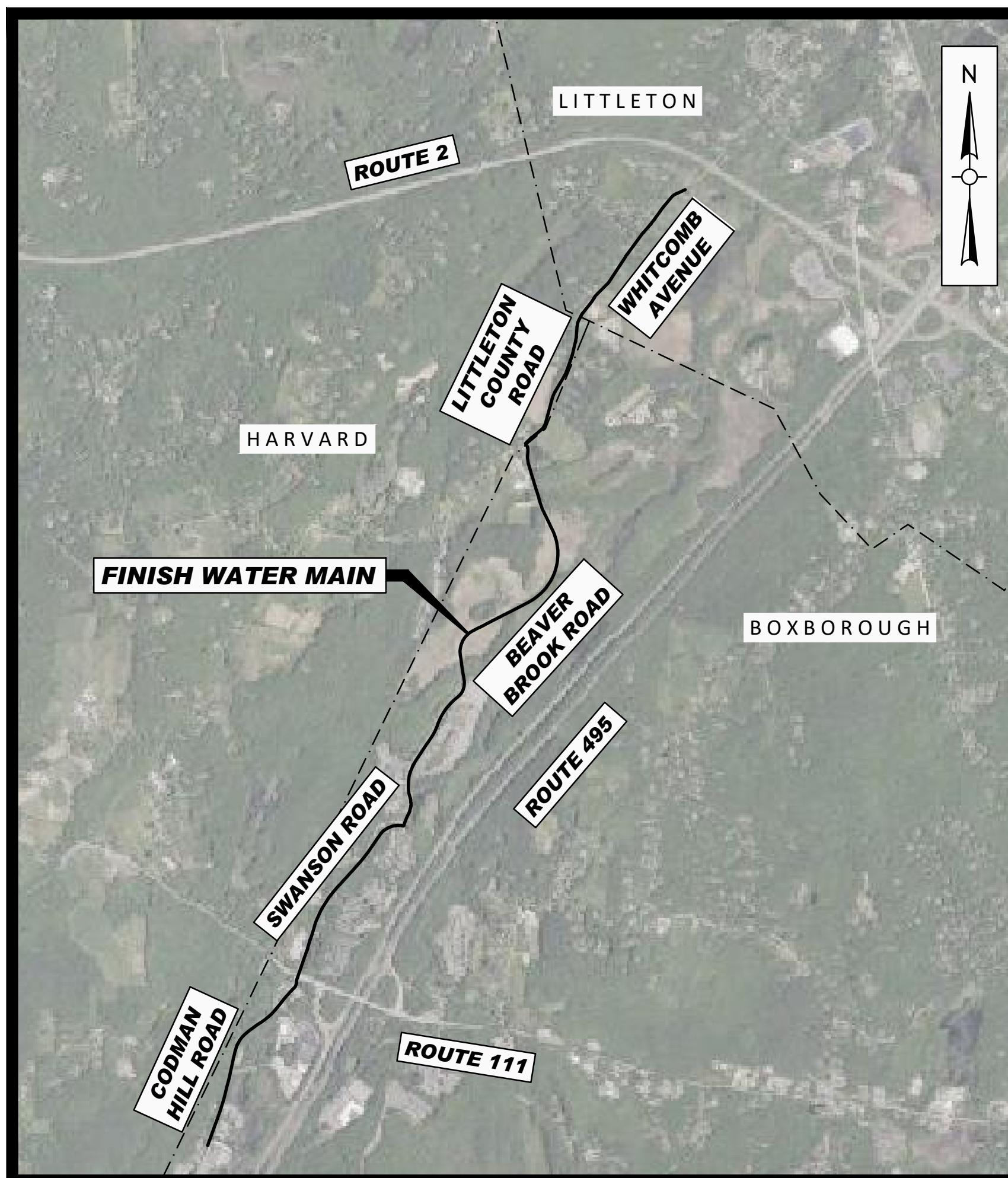


# LITTLETON WATER DEPARTMENT



**WATER SUPPLY FROM LITTLETON TO BOXBOROUGH  
TOWN CONTRACT NO. IFB-2024  
DWSRF NO. 12397 - CONTRACT NO.2  
NICK LAWLER - GENERAL MANAGER  
DAVE KETCHEN - ASSISTANT GENERAL MANAGER  
COREY GODFREY - WATER SUPERINTENDENT**



**LOCUS MAP**  
SCALE: 1"=2000'

DRAWING INDEX	
SHEET	TITLE
G000	COVER AND SHEET LIST
G001	ABBREVIATIONS, NOTES, AND LEGEND
C101	FINISH WATER PLAN WHITCOMB AVENUE
C102	FINISH WATER PLAN WHITCOMB AVENUE AND LITTLETON COUNTY ROAD
C501	DETAILS
C502	DETAILS

**Weston & Sampson**

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Reading, MA 01867

978.532.1900 800.SAMPSON  
[www.westonandsampson.com](http://www.westonandsampson.com)

Issued Date:

**NOVEMBER 2023**

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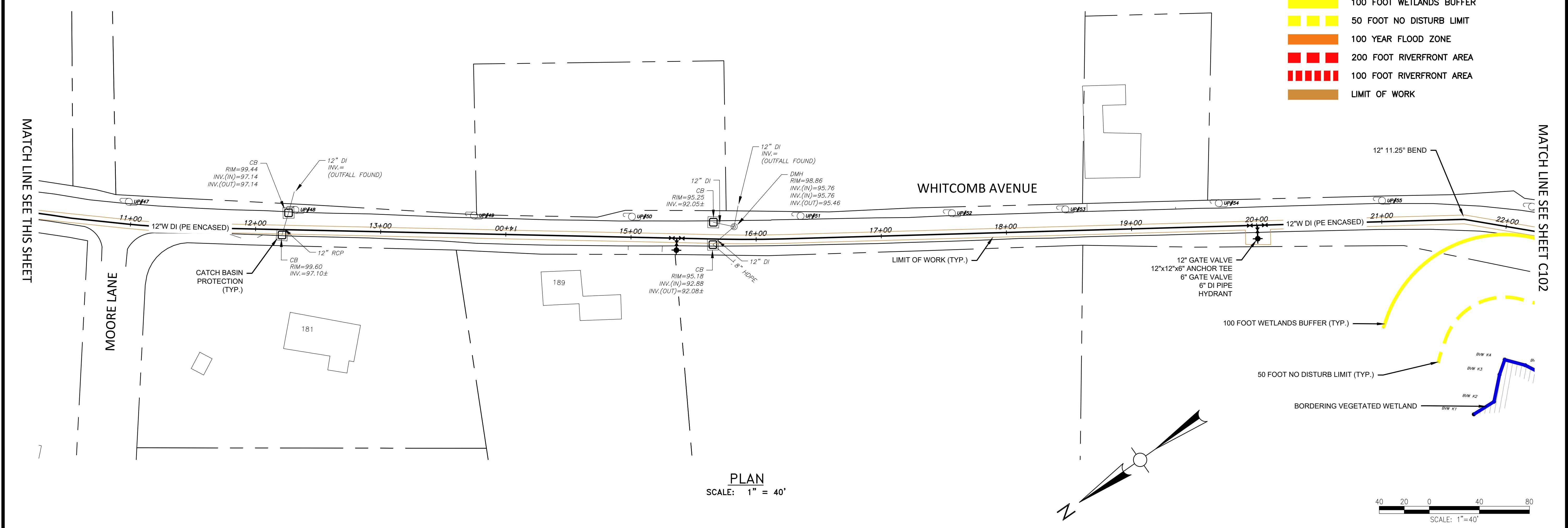
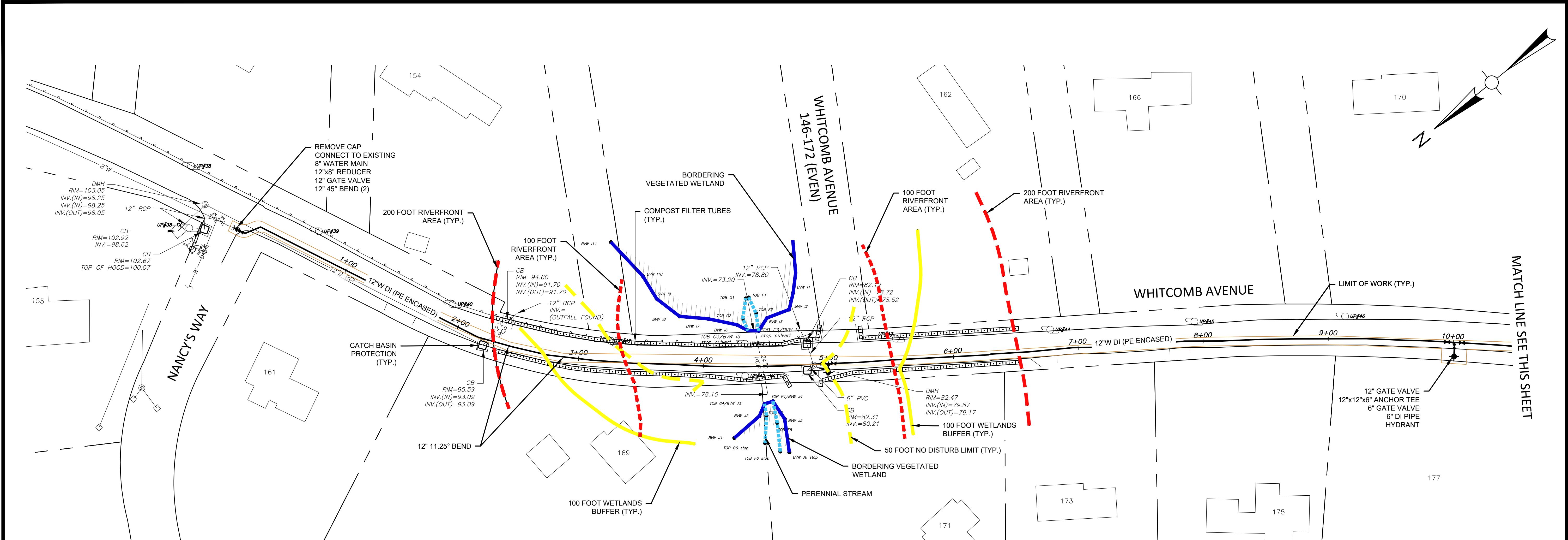
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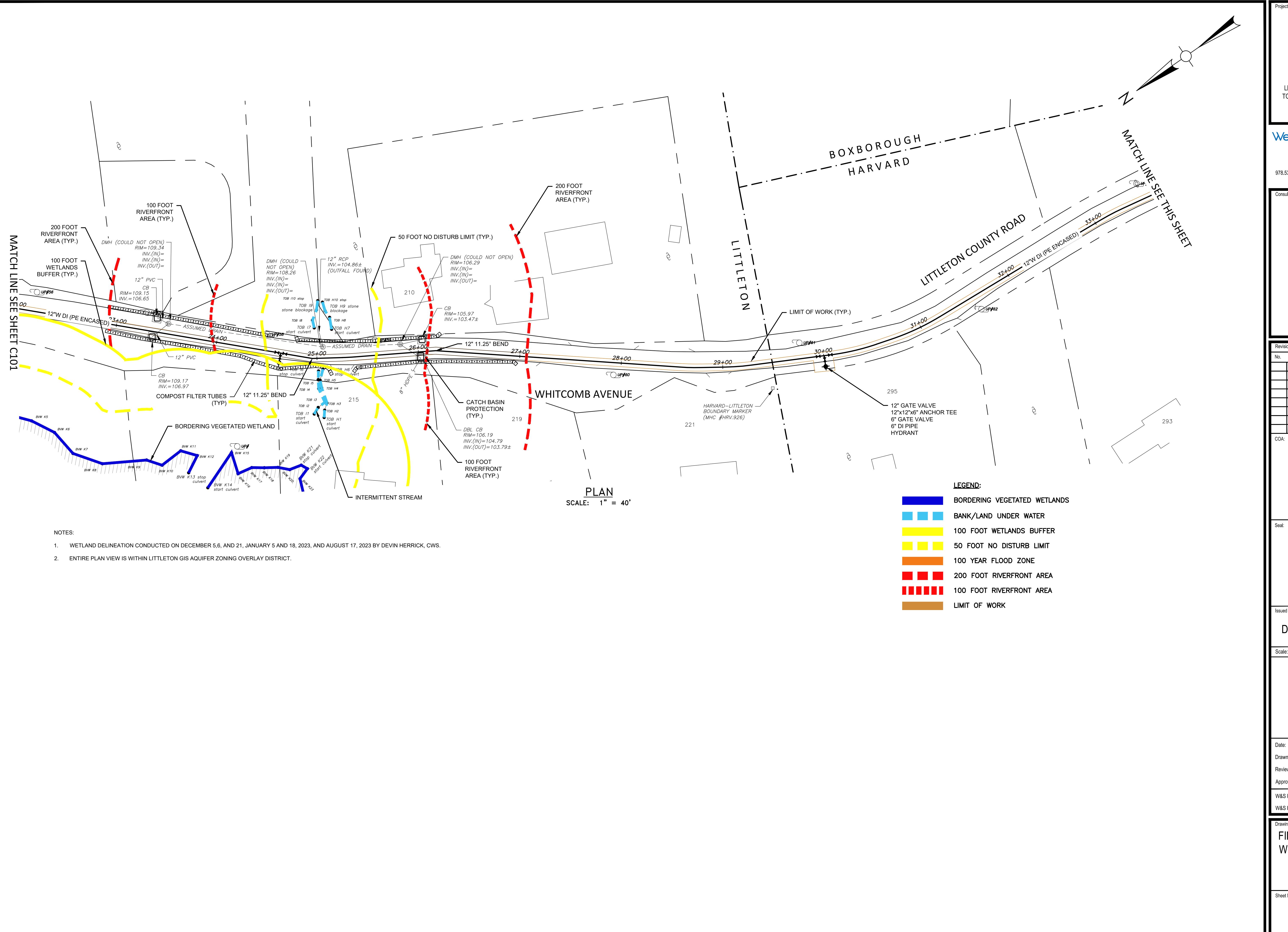
Date: NOVEMBER 2023  
Drawn By: GJK/RWS  
Reviewed By: SBR  
Approved By: TEM  
W&S Project No.: ENG23-0679  
W&S File No.:

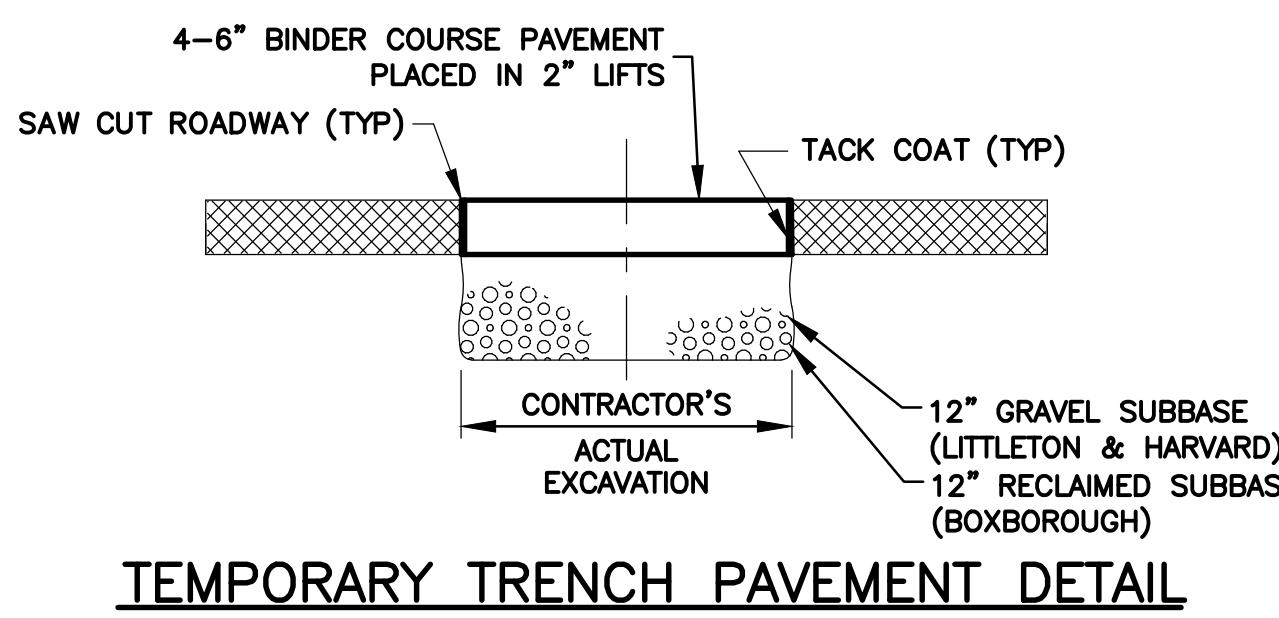
Drawing Title:  
**FINISH WATER PLAN  
WHITCOMB AVENUE**

Sheet Number:

**C101**

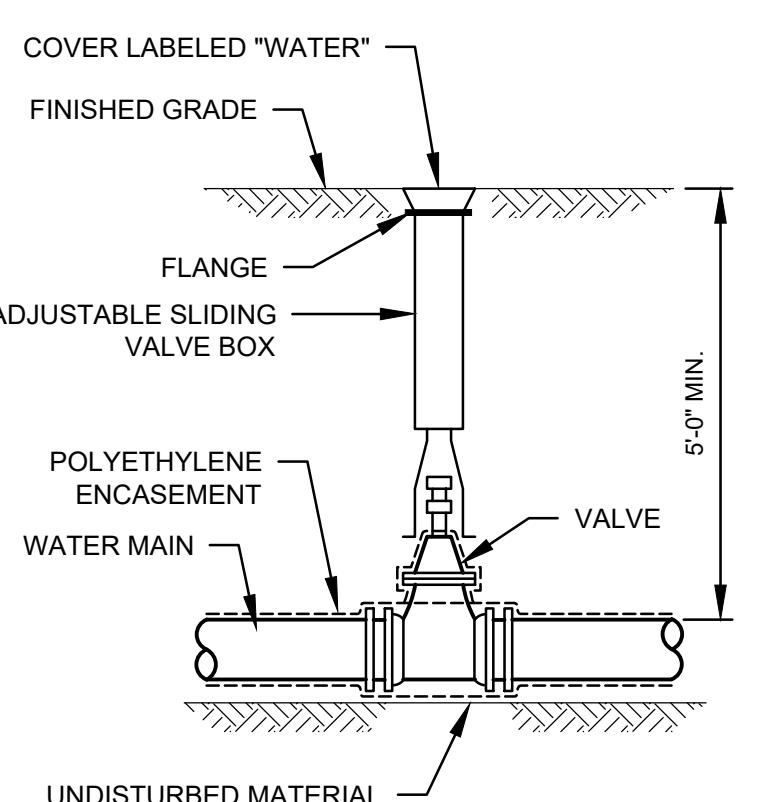






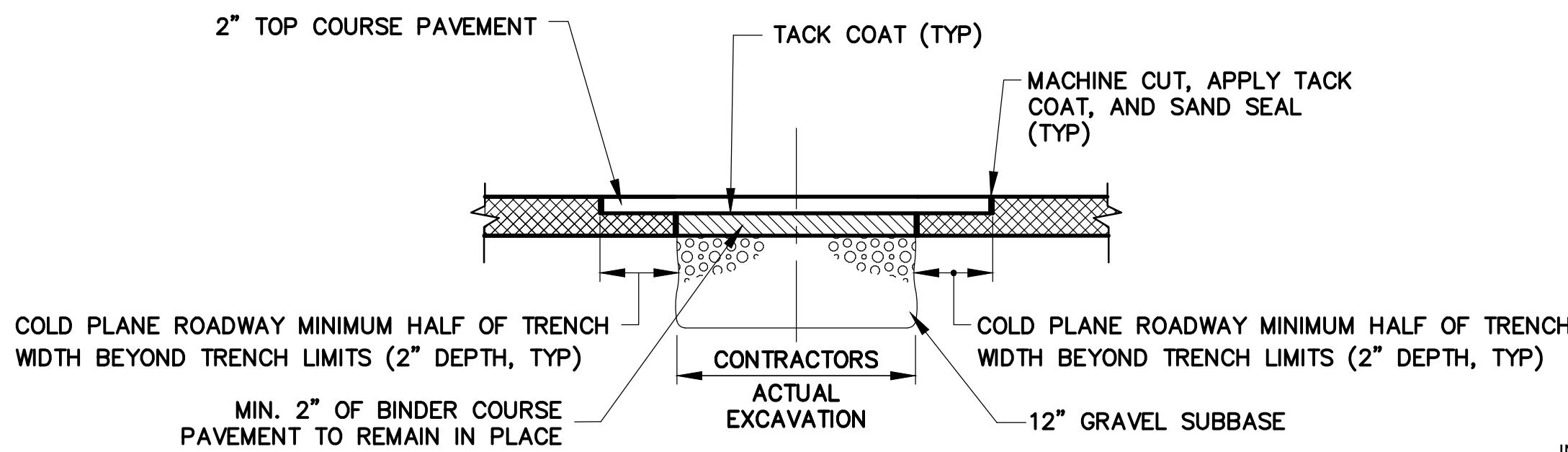
**TEMPORARY TRENCH PAVEMENT DETAIL**

N.T.S.



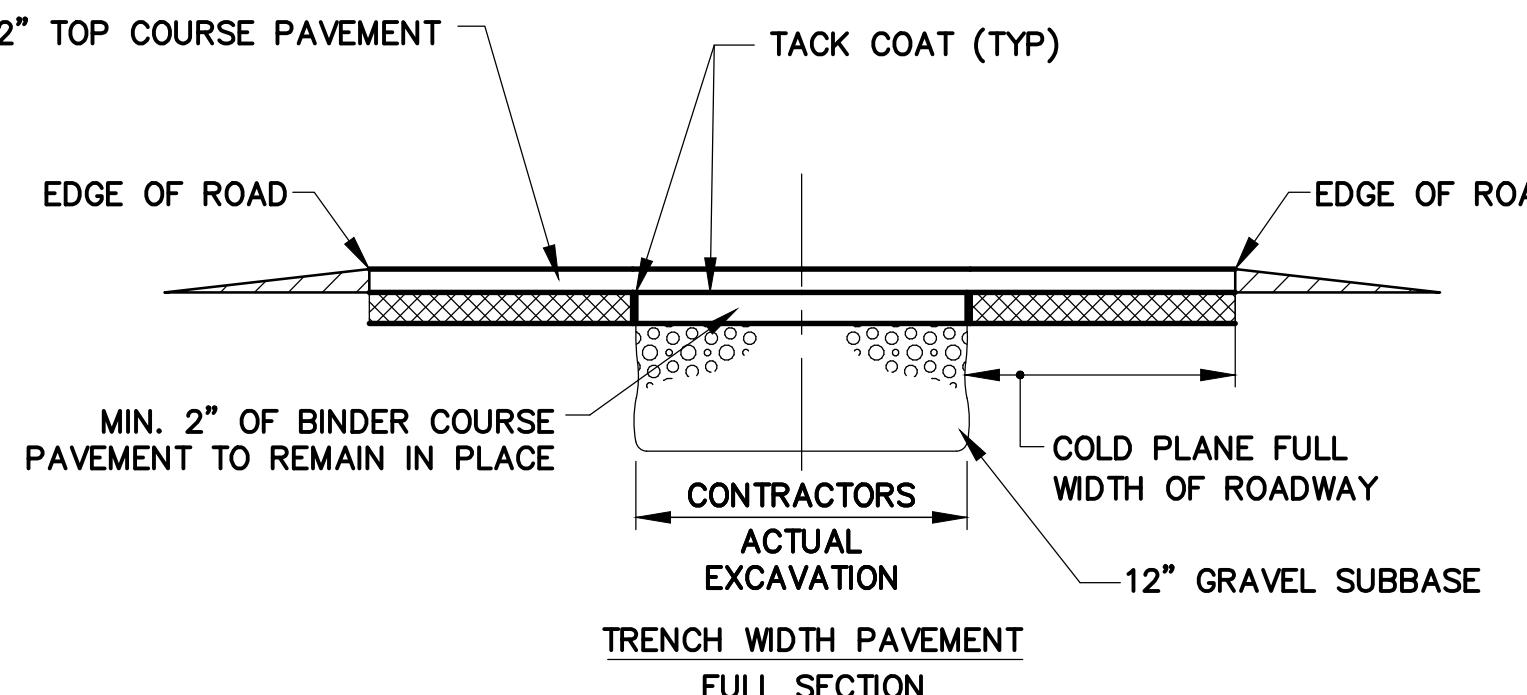
**VALVE AND BOX DETAIL**

N.T.S.



**TYPE 1:  
LOCAL ROAD PERMANENT  
MILL AND OVERLAY PAVEMENT DETAIL**

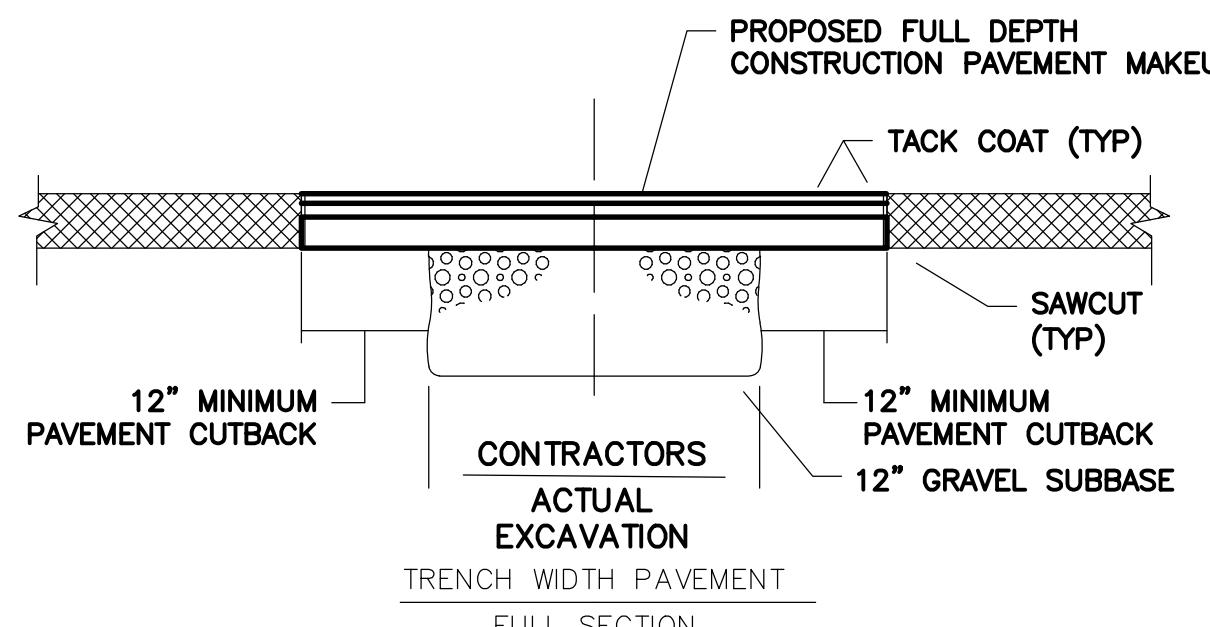
N.T.S.



**TYPE 2:**

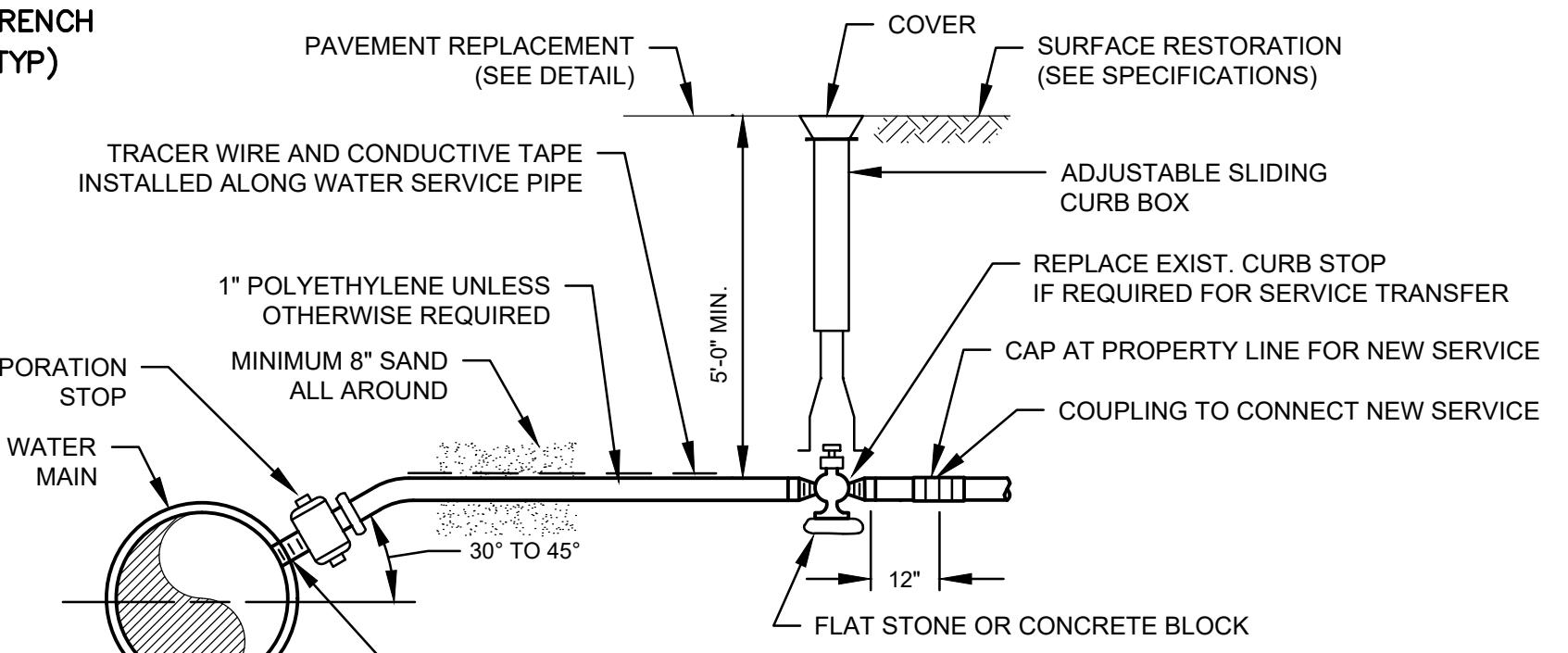
**LITTLETON STA 0+00 TO 13+00 PERMANENT  
FULL WIDTH AND OVERLAY PAVEMENT DETAIL**

N.T.S.



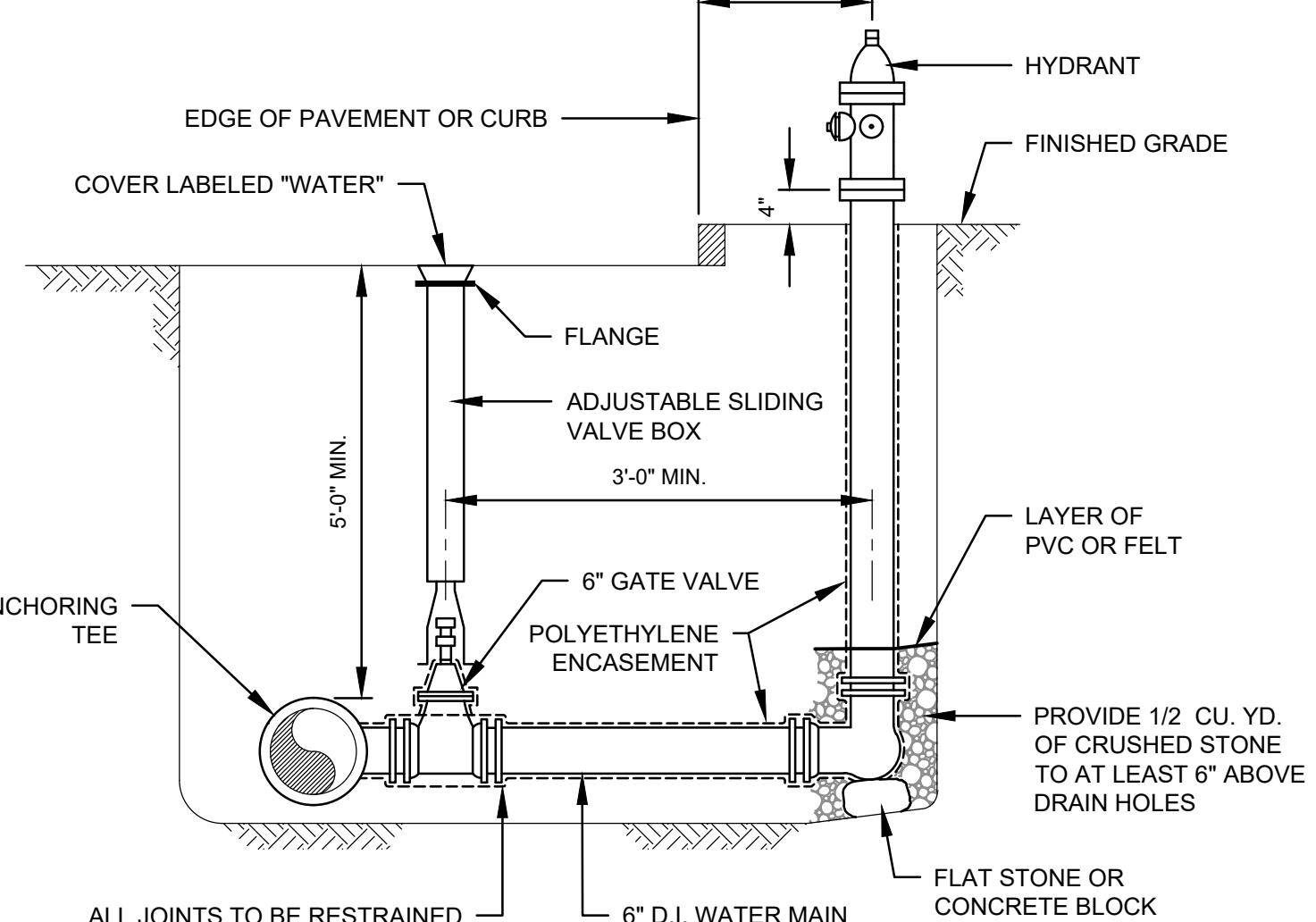
**STATE HIGHWAY PERMANENT TRENCH  
PAVEMENT DETAIL**

N.T.S.



**WATER SERVICE DETAIL**

N.T.S.



**HYDRANT AND VALVE DETAIL**

N.T.S.

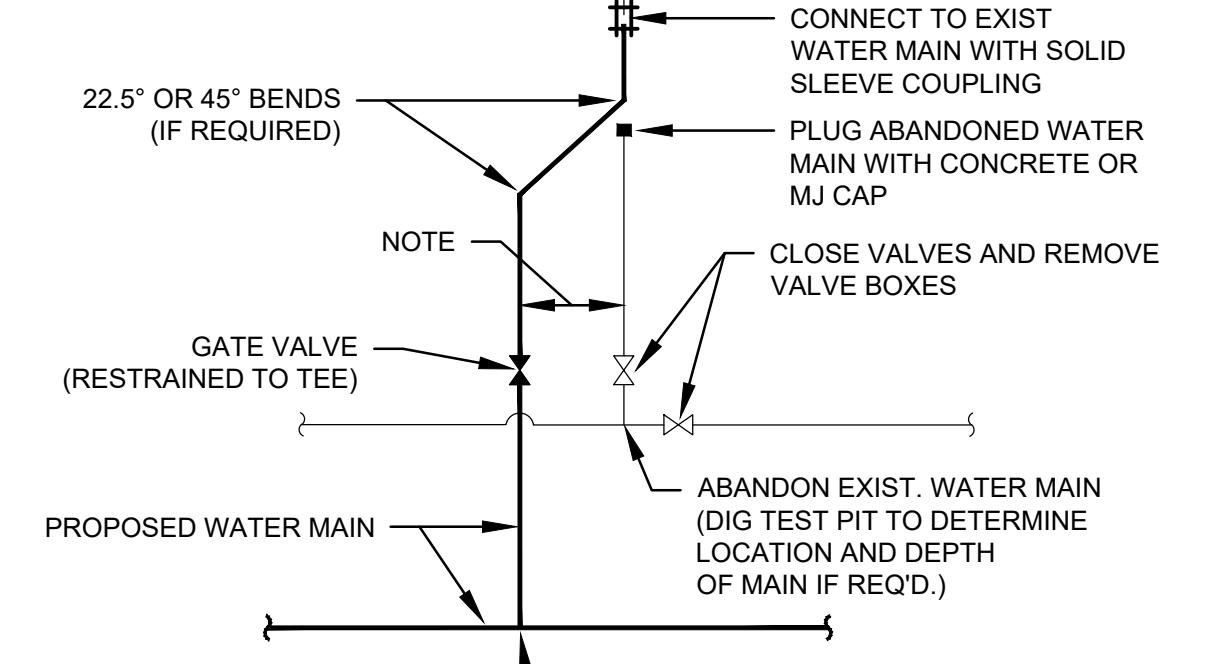
REQUIRED LENGTH OF RESTRAINED JOINTS FROM FITTINGS (FEET)

PIPE SIZE	90° BEND	45° BEND OR WYE BRANCH	22 1/2° BEND	11 1/4° BEND	PLUG, CAP OR IN-LINE VALVE	TEE (BRANCH)
6"	25 (30.5)	10.5 (12.5)	5 (6)	2.5 (3)	43 (64)	34 (51)
8"	33 (40)	13.5 (16.5)	6.5 (8)	3 (4)	55 (82)	47 (70)
10"	40 (48.5)	16.5 (20)	8 (9.5)	4 (5)	67 (100)	58 (87)
12"	47 (56.5)	19.5 (23.5)	9.5 (11.5)	4.5 (5.5)	79 (118)	70 (105)
16"	59.5 (72)	24.5 (30)	12 (14.5)	6 (7)	101 (152)	92 (139)
20"	72 (86.5)	30 (36)	14.5 (17)	7 (8.5)	123 (184)	114 (171)
24"	84 (100)	35 (41)	16.5 (20)	8 (10)	144 (216)	134 (202)
30"	100 (120)	41 (50)	20 (24)	10 (12)	174 (261)	165 (247)

NOTES:

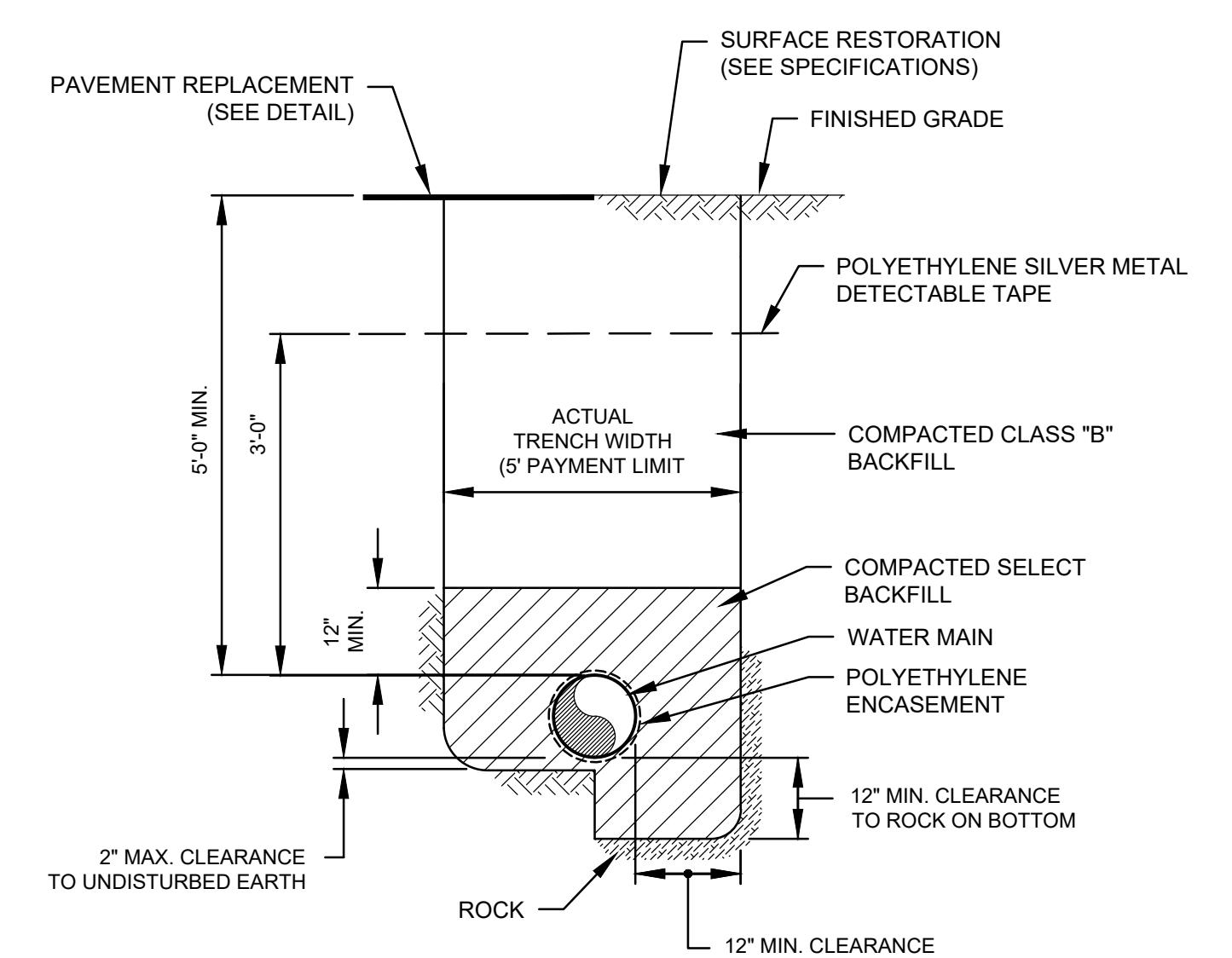
1. RESTRAINED LENGTHS LISTED IN PARENTHESES ARE FOR PIPE WRAPPED IN POLYETHYLENE. THE OTHER ASSOCIATED LENGTHS ARE FOR PLAIN UNWRAPPED DUCTILE IRON PIPE.
2. THE CONTRACTOR SHALL USE THIS TABLE IN CONJUNCTION WITH THE APPROPRIATE PIPE SPECIFICATION SECTION.

**RESTRAINED JOINT TABLE**



**WATER MAIN LATERAL CONNECTION**

N.T.S.



**WATER MAIN TRENCH DETAIL**

N.T.S.

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Approved By:	TEM
W&S Project No.:	ENG23-0679
W&S File No.:	

Drawing Title:

DETAILS I

Sheet Number:

C501

