

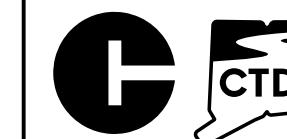
**06 - WATER MAIN
INDEX OF DRAWINGS**

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
IDX-06	INDEX OF DRAWINGS		
W-1	TEMPORARY WATER MAIN BYPASS		
W-2	WATER MAIN REPLACEMENT		
W-3	TEMPORARY WATER MAIN BYPASS & REPLACEMENT PROFILES		
W-4	WATER MAIN DETAILS 1		
W-5	WATER MAIN DETAILS 2		

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:
DATE:
REVISION NUMBER:
REVISION DESCRIPTION:

DESIGNER/DRAFTER: BSZ
CHECKED BY: MJC



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):

PUTNAM

DRAWING TITLE:

INDEX OF DRAWINGS

PROJECT NO.:

0115-0122

DRAWING NO.:

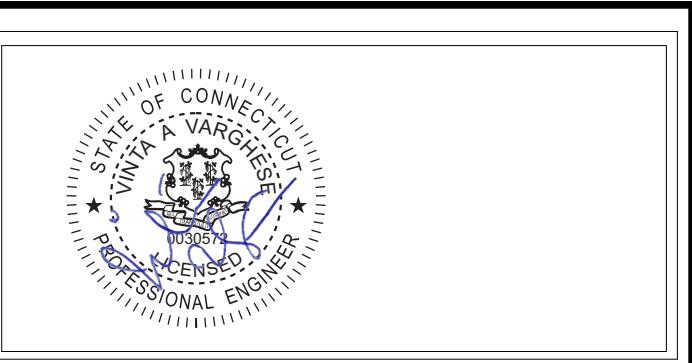
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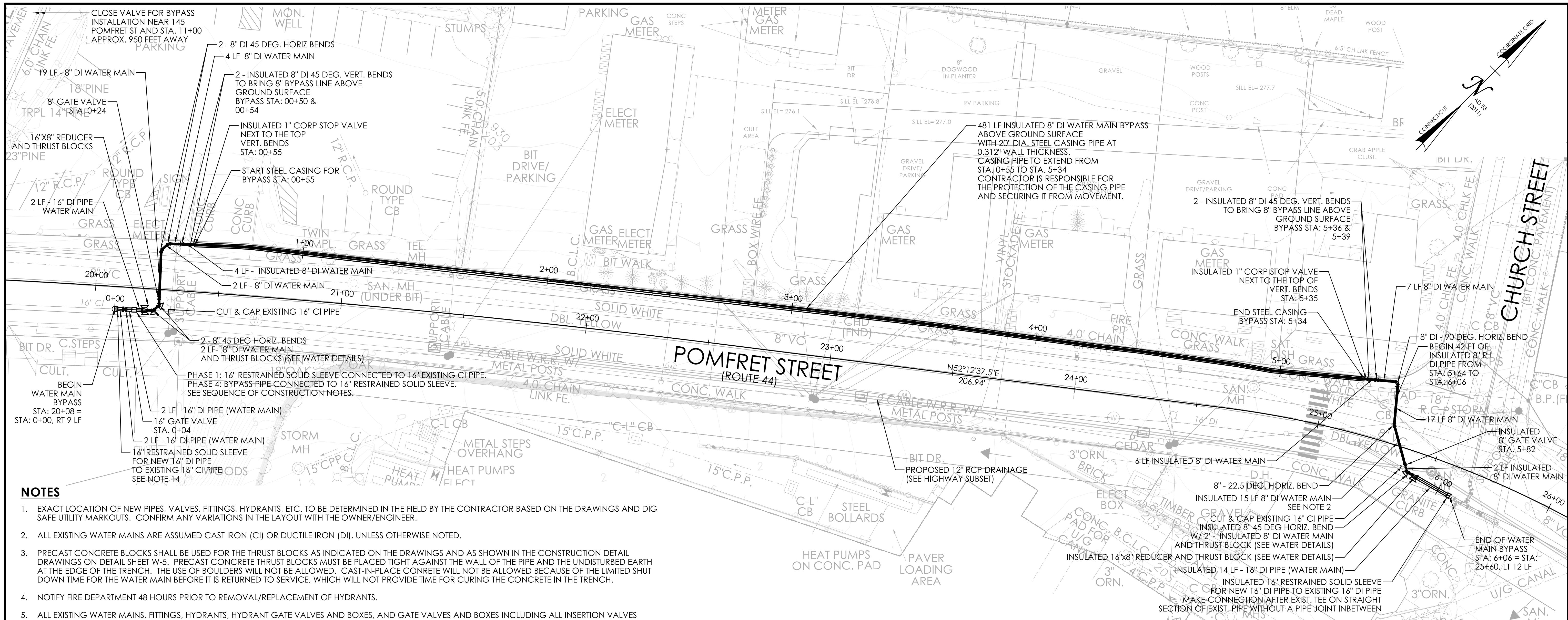
SHEET NO.:

06.01

LAST SAVED BY: COYLEZ FILE NAME: c:\pw_p11\coylez\d4762529\UT_D2_115-0122_PUTNAM_US44_at_Sabin_St_and_Church_St_Cover01.dgn
PLOTTED DATE: 10/4/2025

DESIGNED BY:
CDM SMITH INC.
101 EAST RIVER DRIVE
SUITE 1000
EAST HARTFORD, CT 06108





NOTES

- EXACT LOCATION OF NEW PIPES, VALVES, FITTINGS, HYDRANTS, ETC. TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON THE DRAWINGS AND DIG SAFE UTILITY MARKOUTS. CONFIRM ANY VARIATIONS IN THE LAYOUT WITH THE OWNER/ENGINEER.
- ALL EXISTING WATER MAINS ARE ASSUMED CAST IRON (CI) OR DUCTILE IRON (DI), UNLESS OTHERWISE NOTED.
- PRECAST CONCRETE BLOCKS SHALL BE USED FOR THE THRUST BLOCKS AS INDICATED ON THE DRAWINGS AND AS SHOWN IN THE CONSTRUCTION DETAIL DRAWINGS ON DETAIL SHEET W-5. PRECAST CONCRETE THRUST BLOCKS MUST BE PLACED TIGHT AGAINST THE WALL OF THE PIPE AND THE UNDISTURBED EARTH AT THE EDGE OF THE TRENCH. THE USE OF BOULDERS WILL NOT BE ALLOWED. CAST-IN-PLACE CONCRETE WILL NOT BE ALLOWED BECAUSE OF THE LIMITED SHUT DOWN TIME FOR THE WATER MAIN BEFORE IT IS RETURNED TO SERVICE, WHICH WILL NOT PROVIDE TIME FOR CURING THE CONCRETE IN THE TRENCH.
- NOTIFY FIRE DEPARTMENT 48 HOURS PRIOR TO REMOVAL/REPLACEMENT OF HYDRANTS.
- ALL EXISTING WATER MAINS, FITTINGS, HYDRANTS, HYDRANT GATE VALVES AND BOXES, AND GATE VALVES AND BOXES INCLUDING ALL INSERTION VALVES WHICH ARE TO BE REMOVED AND/OR REPLACED MUST BE REMOVED, SALVAGED AND DEPOSITED AT THE CITY'S WATER DIVISION YARD AND WILL REMAIN PROPERTY OF THE OWNER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PRIOR TO CONSTRUCTION AND/OR TEMPORARY FLOW INTERRUPTIONS, CONTRACTOR MUST COORDINATE WITH THE TOWN OF PUTNAM TO VERIFY WHICH VALVES AND CONNECTIONS IN AND AROUND THE WORK SITE ARE OPERATIONAL. THE TOWN WILL OPERATE THE EXISTING VALVES ONLY.
- PAVEMENT REPLACEMENT MUST NOT OCCUR UNTIL THE ENGINEER HAS RECEIVED ALL SOIL TESTING RESULTS AND APPROVED THE COMPACTED BACKFILL MATERIAL.
- THE OWNER DOES NOT GUARANTEE A TIGHT, LEAK FREE SHUT DOWN OF EXISTING VALVES. THE CONTRACTOR IS RESPONSIBLE FOR DEWATERING EXISTING WATER MAINS. CONTROL OF LEAKAGE AND DISPOSAL OF WATER IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS. CONTRACTOR IS REQUIRED TO HANDLE LEAKAGE OF UP TO 100 GALLONS PER MINUTE AT EACH VALVE THAT IS CLOSED TO FACILITATE THE WORK.
- THE CONTRACTOR SHALL PLAN FOR MAKING CONNECTION(S) TO THE EXISTING 16" DIA. WATER MAIN DURING OFF PEAK DEMAND HOURS FROM 9PM TO 5AM. THAT MAY INCLUDE A WEEKEND, AND MUST BE COORDINATED WITH THE TOWN OF PUTNAM'S WATER DEPARTMENT TO PERFORM OPERATION OF ANY EXISTING WATER VALVES. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING WATER VALVES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE TEST PITS AS REQUIRED TO DETERMINE EXACT LOCATION AND SIZE OF EXISTING WATER MAINS, TO VERIFY ANY UTILITY INFORMATION NEEDED, AND MEASUREMENTS NEEDED FOR FABRICATION AND ORDERING OF NEW MATERIALS.
- 8" DUCTILE IRON TEMPORARY BYPASS PIPE WILL BE BURIED AT DEPTH SIMILAR TO EXISTING MAIN OR MIN. 4-FEET OF COVER IN ROAD CROSSING BY CONTRACTOR TO MAINTAIN CONSTRUCTION TRAFFIC.
- ABOVE GROUND INSULATED 8" DUCTILE IRON TEMPORARY BYPASS PIPE TO BE PROTECTED WITH STEEL CASING PIPE WHEN ABOVE GROUND AS SPECIFIED IN NOTE ON THE PLAN VIEW TO BE PAID FOR UNDER ITEMS NO. 1301069A - INSULATED AND NON-INSULATED 8" DUCTILE IRON WATER MAIN AND NO. 130200A - 20' STEEL CASING PIPE (WATER MAIN).
- ABOVE GROUND BYPASS WATER MAIN TO BE OFFSET FROM NORTH RETAINING WALL ENOUGH DISTANCE TO ALLOW FOR INSTALLATION OF TEMPORARY UTILITY POLES BASED ON TEMPORARY UTILITY PLANS, CONTRACTOR TO COORDINATE.
- ALL TEMPORARY AND PERMANENT DUCTILE IRON PIPE, SOLID SLEEVES, BENDS, TEES, FITTINGS, CORPORATIONS, AND COUPLINGS MUST HAVE RESTRAINED JOINTS AND WILL BE PAID FOR UNDER ITEM NO. 1301069A - INSULATED AND NON-INSULATED 8" DUCTILE IRON WATER MAIN AND NO. 1301085A - INSULATED AND NON-INSULATED 16" DUCTILE IRON WATER MAIN.
- ALL GATE VALVES WILL BE PAID FOR UNDER ITEMS NO. 1302004A AND 1302008A 8-INCH AND 16-INCH GATE VALVES.
- CONCRETE THRUST BLOCKS WILL BE PAID FOR UNDER ITEM NO. 1301069A - INSULATED AND NON-INSULATED 8" DUCTILE IRON WATER MAIN.
- CONTRACTOR SHALL DISTRIBUTE NOTICES TO ALL AFFECTED RESIDENTS AND NOTIFY THE TOWN OF PUTNAM AND EMERGENCY SERVICES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

SUGGESTED SEQUENCE OF CONSTRUCTION FOR TEMPORARY 8" DIA. BYPASS WATER MAIN

SEQUENCE REQUIREMENTS

- INSTALL CONSTRUCTION SIGNS AND TEMPORARY CHANNELIZING DEVICES PER MPT-01 AND MPT-02 PLANS AND SPECIAL PROVISION 0971001A MAINTENANCE AND PROTECTION OF TRAFFIC.
- CONTRACTOR SHALL PREPARE AND SUBMIT A PROPOSED SEQUENCE OF CONSTRUCTION TO THE ENGINEER AND THE TOWN OF PUTNAM WATER DEPARTMENT FOR REVIEW, COMMENT, AND ACCEPTANCE PRIOR TO BEGINNING ANY WATER MAIN WORK.
- NORMAL OPERATION OF THE EXISTING 16" DIA. WATER MAIN SHALL BE MAINTAINED FOR THE TOWN OF PUTNAM DURING INSTALLATION, CHLORINATION AND PRESSURE TESTING OF THE NEW 8" BYPASS WATER MAIN UNTIL THE FINAL CONNECTION.
- CONTRACTOR SHALL HAVE ALL NEW WATER MAIN PIPING, FITTINGS, VALVES, SOLID SLEEVES AND RESTRAINING JOINT GLANDS AND ACCESSORIES TO COMPLETE THE FINAL CONNECTION OF THE BYPASS WATER MAIN AT THE CONSTRUCTION SITE BEFORE INITIATING THE WORK.
- THE CONTRACTOR SHALL COORDINATE WITH THE TOWN OF PUTNAM WATER DEPARTMENT TO OPERATE, CLOSE OR OPEN ANY EXISTING, IN-SERVICE VALVES.
- THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING IN-SERVICE WATER VALVES.

PHASE 1: INSTALL 16" DIA. GATE VALVE WITH SOLID SLEEVES

- PREF-ASSEMBLE NEW 16" DIA. RESTRAINED JOINT SOLID SLEEVE, 16" DIA. DI PIPE, 16" RESTRAINED JOINT GATE VALVE, AND 16" DIA. RESTRAINED JOINT SOLID SLEEVE ABOVE GROUND TO PREPARE FOR FIRST CUT-IN.
- COORDINATE WITH THE TOWN OF PUTNAM WATER DEPARTMENT TO ISOLATE THE EXISTING WATER MAIN AND THEN INSTALL FULLY RESTRAINED PRE-ASSEMBLED SECTION WITH 16" DIA. GATE VALVE USING RESTRAINED SOLID SLEEVES WITHIN A MAXIMUM OF AN 8-HOUR SHUTDOWN DURING 1 SHIFT DURING AN OFF-PEAK DEMAND TIME FROM 9PM TO 5AM.

PHASE 2: TEMPORARY 8" DIA. BYPASS WATER MAIN FROM STA 0+00 TO 6+06

- INSTALL 20' DIAMETER STEEL CASING PIPE AND FULLY RESTRAINED PRE-INSULATED AND NON-INSULATED 8" DIA. DUCTILE IRON (DI) PIPE, FITTINGS AND APPURTANCES FROM THE NEW 8" GATE VALVE AT STA 0+24 TO THE NEW 8" GATE VALVE AT STA: 5+82. THE ENTIRE LENGTH SHALL HAVE RESTRAINED JOINTS. INSTALL WATER MAIN IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- INSTALL TEMPORARY 8" DIA. RESTRAINED MECHANICAL JOINT CAPS ON 1-FOOT LONG 8" DIA. DI PIPE ON THE END OF THE NEW 8" GATE VALVES AT STA 0+24 AND 5+82 FOR THE PURPOSE OF PRESSURE TESTING THE NEW 8" DIA. WATER MAIN. INSTALL CORP. STOPS AT ENDS OF NEW WATER MAIN TO FACILITATE FILLING, CHLORINATING, AND FLUSHING.
- BACKFILL AND COMPACT ALL SECTIONS OF BELOW-GRADE BYPASS WATER MAIN.
- PERFORM CHLORINATION, AND PRESSURE AND LEAKAGE TESTING FOR THE NEW 8" DIA. WATER MAIN FROM STA 0+24 TO STA 5+82 IN ACCORDANCE WITH PROVISION ITEM NO. 1301085A DUCTILE IRON PIPE AND FITTINGS.
- PREPARE FOR MAKING THE FINAL CONNECTIONS TO THE EXISTING 16" DIA. WATER MAIN BY PRE-ASSEMBLING AND DISINFECTING THE REMAINING FULLY RESTRAINED 8" DIA. DI PIPE, 8" DIA. HORIZONTAL BENDS, AND 16" TO 8" REDUCER ABOVE GRADE.

PHASE 3: ISOLATING EXISTING 16" DIA. WATER MAIN

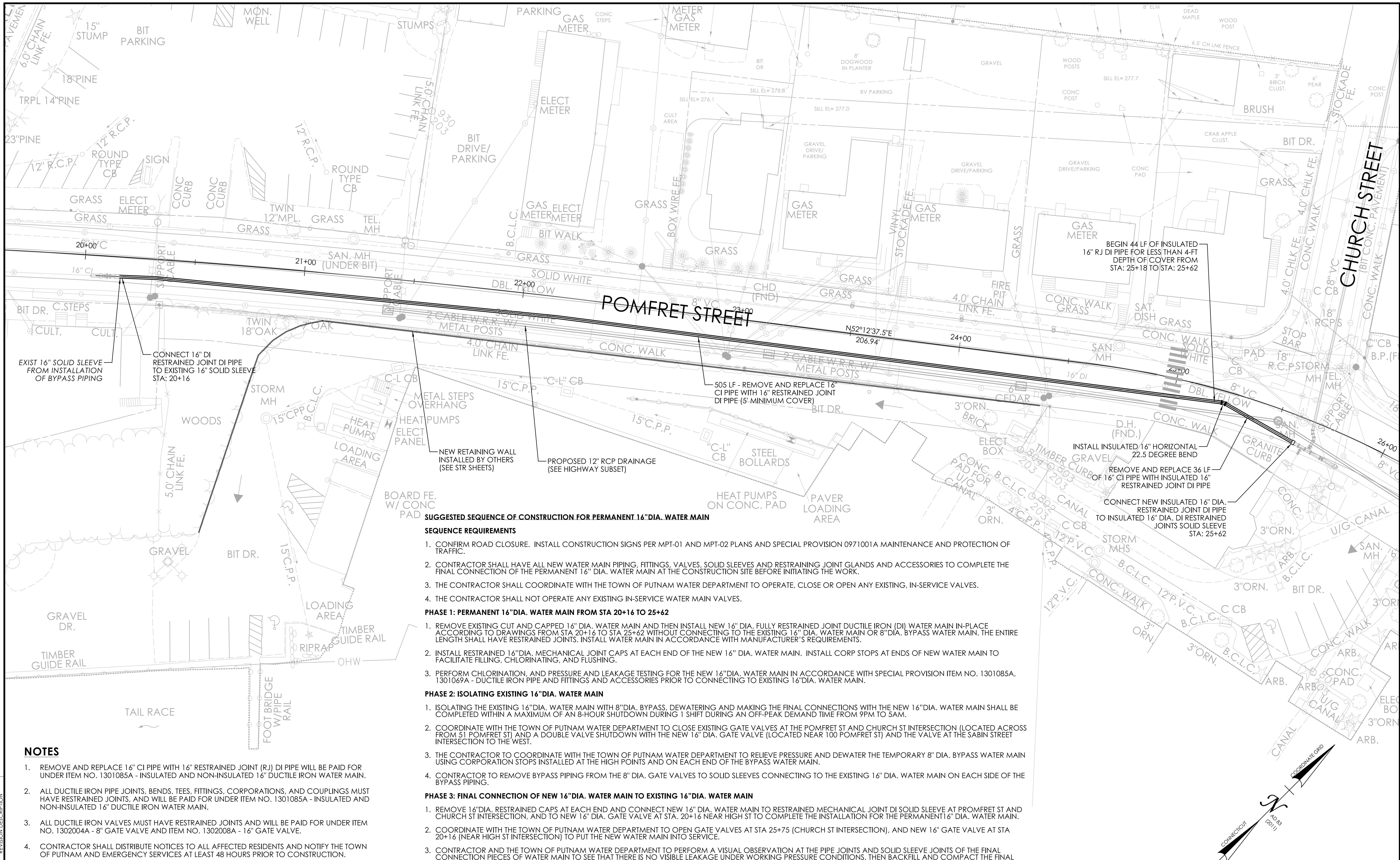
- ISOLATING THE EXISTING 16" DIA. WATER MAIN, DEWATERING AND MAKING THE FINAL CONNECTIONS WITH THE 8" DIA. BYPASS WATER MAIN SHALL BE COMPLETED WITHIN A MAXIMUM OF AN 8-HOUR SHUTDOWN DURING 1 SHIFT DURING AN OFF-PEAK DEMAND TIME FROM 9PM TO 5AM.
- THE CONTRACTOR SHALL COORDINATE WITH THE TOWN OF PUTNAM WATER DEPARTMENT TO CLOSE EXISTING 16" DIA. GATE VALVES AT THE POMFRET ST AND CHURCH ST INTERSECTION (LOCATED ACROSS FROM 51 POMFRET ST) AND THE POMFRET ST AND A DOUBLE VALVE SHUTDOWN WITH THE SABIN ST INTERSECTION (LOCATED SOUTHWEST OF 145 POMFRET ST) AND THE NEW 16" DIA. GATE VALVE INSTALLED IN PHASE 1.
- FOLLOWING THE VALVE CLOSURES, THE TOWN WILL INITIALLY RELIEVE PRESSURE AND WILL OPEN THE NEAREST HYDRANT TO BEGIN DEWATERING THE ISOLATED SECTION OF 16" DIA. WATER MAIN.
- THE CONTRACTOR WILL THEN RELIEVE APPROXIMATELY 1500 LF OF THE REMAINING WATER AND WATER PRESSURE WITHIN THE 16" DIA. WATER MAIN BY CUTTING INTO THE EXISTING WATER MAIN. A TRENCH DEWATERING SYSTEM WILL NEED TO BE IN PLACE PRIOR TO CUTTING THE PIPE.
- CUT AND CAP THE REMAINING 16" DIA. WATER MAIN UNTIL THE TIME IT WILL BE REMOVED FOR THE PERMANENT REPLACEMENT WATER MAIN.

PHASE 4: FINAL CONNECTION OF NEW 8" DIA. WATER MAIN TO EXISTING 16" DIA. WATER MAIN

- REMOVE 8" DIA. RESTRAINED CAPS AT EACH END OF THE 8" DIA. BYPASS WATER MAIN.
- INSTALL PRE-ASSEMBLED PIPING, BENDS AND REDUCER ASSEMBLY AT EACH END OF THE 8" BYPASS WATER MAIN.
- DISINFECTION AND INSTALL NEW 16" GATE VALVE AT STA 0+04, REMAINING DI PIPING AND RESTRAINED MECHANICAL JOINT DI SOLID SLEEVES AT EACH END TO COMPLETE THE FINAL CONNECTIONS TO THE EXISTING 16" DIA. WATER MAIN.
- FURNISH AND INSTALL PRECAST CONCRETE THRUST BLOCKS AT HORIZONTAL BEND AND REDUCER LOCATIONS INDICATED ON THE DRAWINGS BASED ON THE SIZES INCLUDED IN THE WATER MAIN DETAIL DRAWING SHEET.
- COORDINATE WITH THE TOWN OF PUTNAM WATER DEPARTMENT TO OPEN GATE VALVES AT STA 10+96 (SABIN ST INTERSECTION) AND AT STA 25+75 (CHURCH ST INTERSECTION) TO FILL THE WATER MAIN AND RETURN IT TO SERVICE.
- CONTRACTOR AND THE TOWN OF PUTNAM WATER DEPARTMENT TO PERFORM A VISUAL OBSERVATION AT THE PIPE JOINTS AND SOLID SLEEVE JOINTS OF THE FINAL CONNECTION PIECES OF WATER MAIN TO SEE THAT THERE IS NO VISIBLE LEAKAGE UNDER WORKING PRESSURE CONDITIONS. THEN BACKFILL AND COMPACT THE FINAL CONNECTIONS.

REVISION	DESCRIPTION
DATE	

SIGNATURE BLOCK:		0 20' 40' HORIZONTAL SCALE 1:20	CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: REPLACEMENT OF RETAINING WALL ALONG ROUTE 44	TOWN(S): PUTNAM	DRAWING TITLE: TEMPORARY WATER MAIN BYPASS	PROJECT NO.: 0115-0122	DRAWING NO.: W-1
REV.	DATE	DESIGNER/DRAFTER: B8Z	CHECKED BY: MJC	LAST SAVED BY: COYLEZ FILE NAME: c:\pw_p11\coylez\d476259\ut_d2_115-0122_PUTNAM_us44_at_Sabin_St_and_Church_St_TempWater_ORD.dgn	PLOTTED DATE: 10/4/2025	SHEET NO.: 06.02		



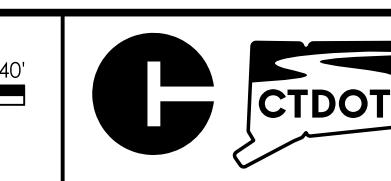
REV.	DATE	REVISION DESCRIPTION

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DESIGNER/DRAFTER: BSZ CHECKED BY: MJC

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PLOTTED DATE: 10/4/2025



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

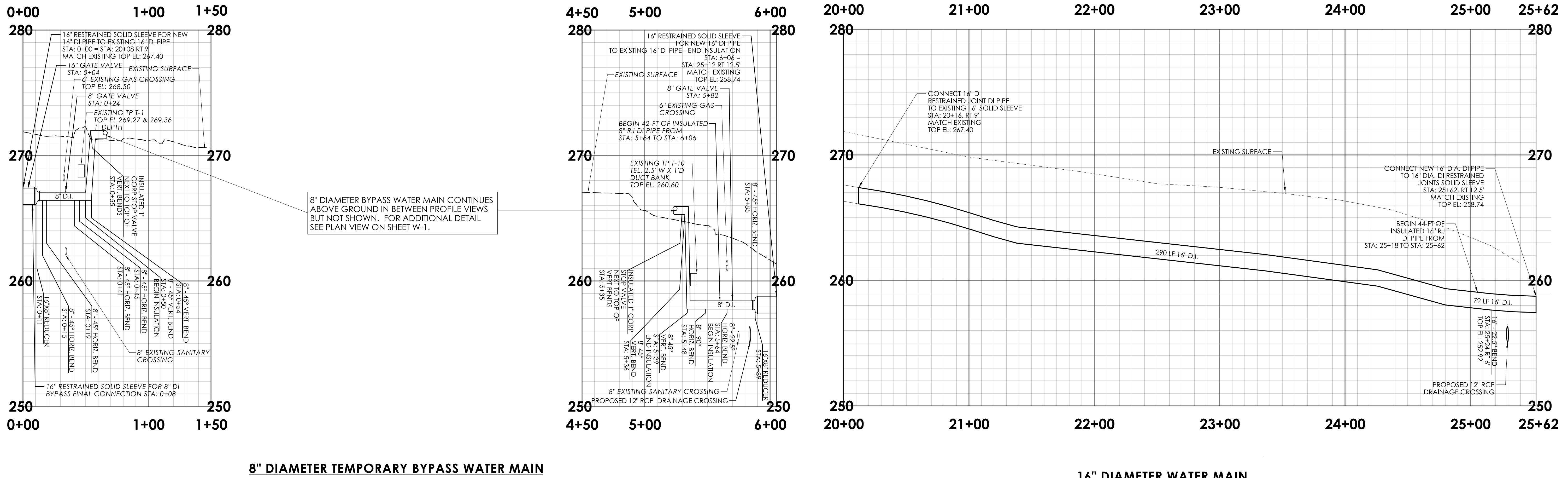
PROJECT TITLE:
REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):
PUTNAM

DRAWING TITLE:
**WATER MAIN
REPLACEMENT**

PROJECT NO.:
0115-0122

DRAWING NO.:
W-2
SHEET NO.:
06.03



NOTES:

1. SEE ALL CONSTRUCTION NOTES LISTED ON DRAWINGS W-1 & W-2.
2. SEE ALL SUGGESTED SEQUENCE OF CONSTRUCTION NOTES LISTED ON DRAWINGS NO. W-1 & W-2.

REVISION DESIGNATION
DATE

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BSZ

DATE

06/04

REVISION DESIGNATION

DATE

06.04

PROJECT NO.:

W-3

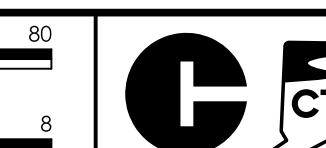
DRAWING NO.:

0115-0122

SHEET NO.:

06.04

0 40 80
HORIZONTAL SCALE IN FEET
0 4 8
VERTICAL SCALE IN FEET



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):

PUTNAM

DRAWING TITLE:

TEMPORARY WATER MAIN
BYPASS & REPLACEMENT PROFILES

PROJECT NO.:

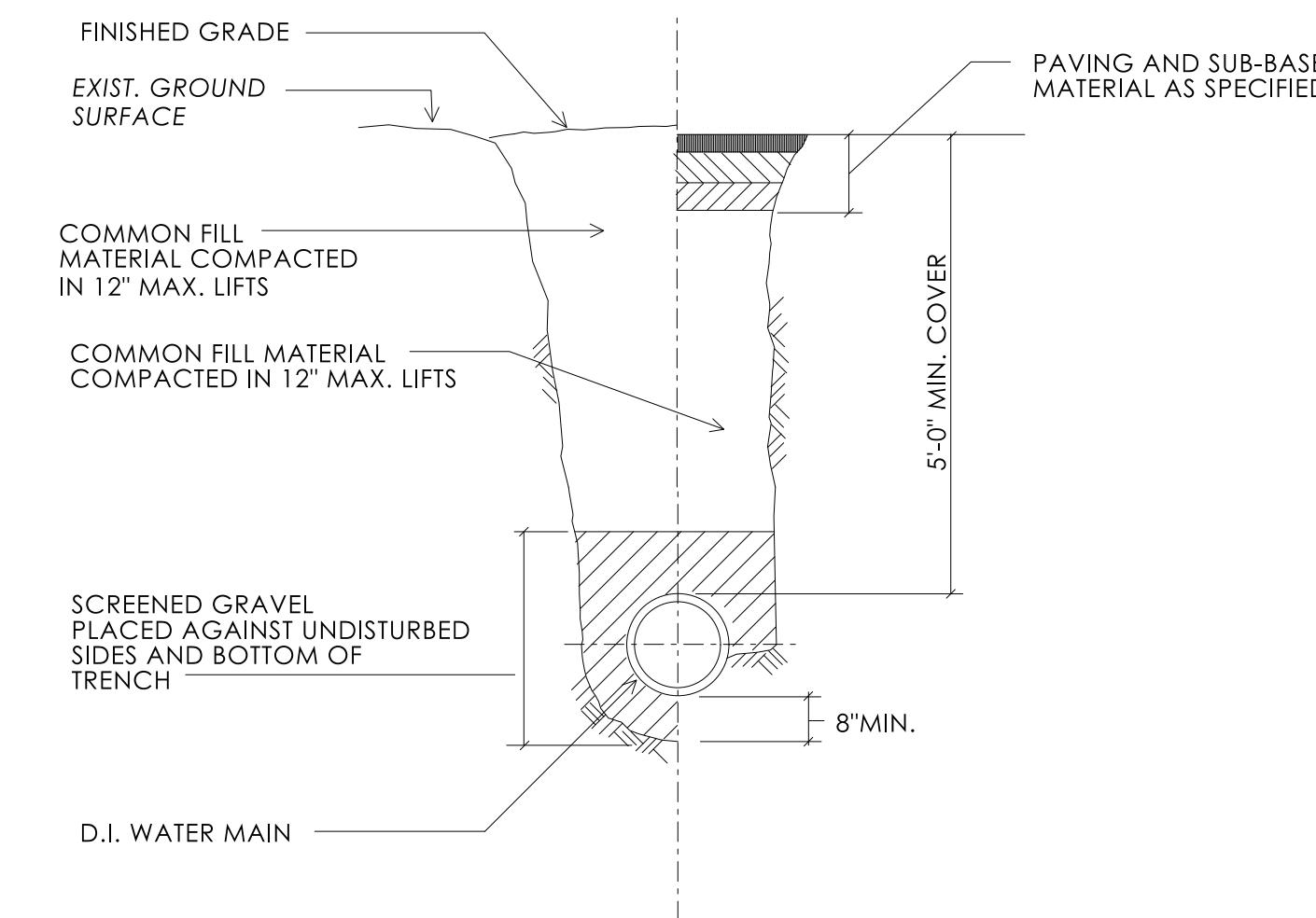
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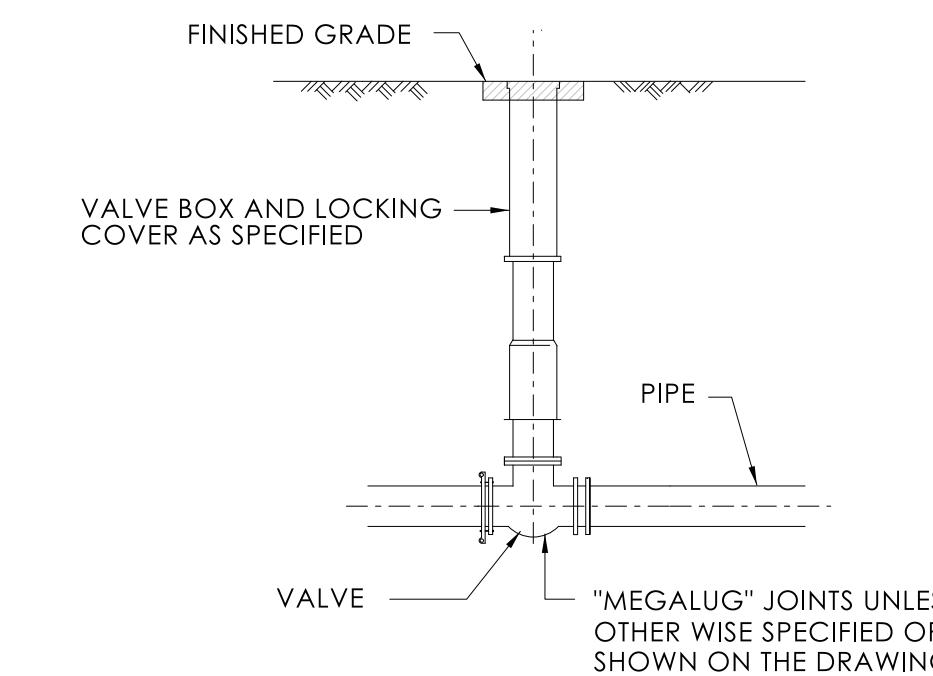
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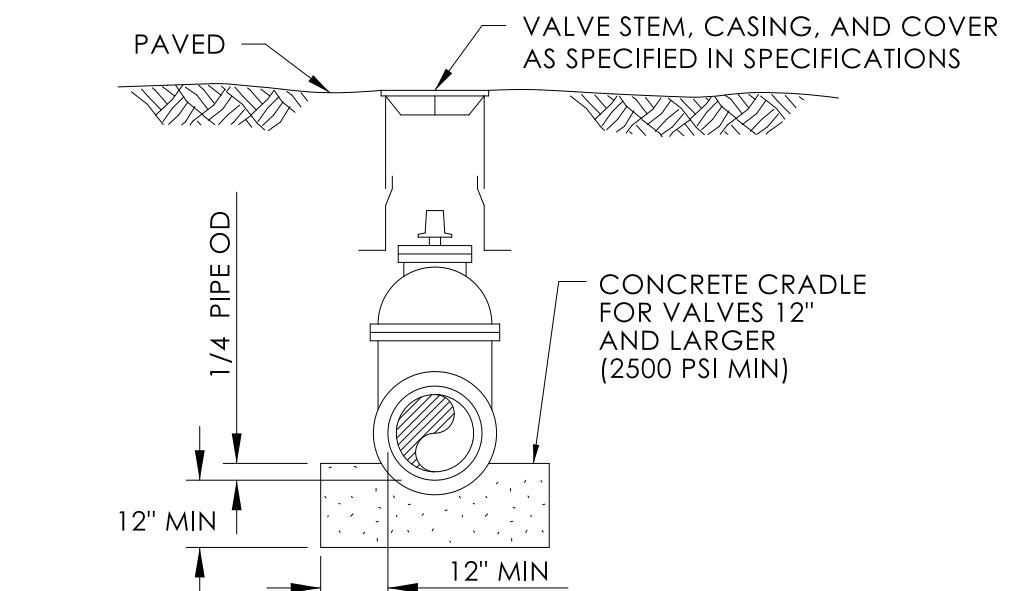
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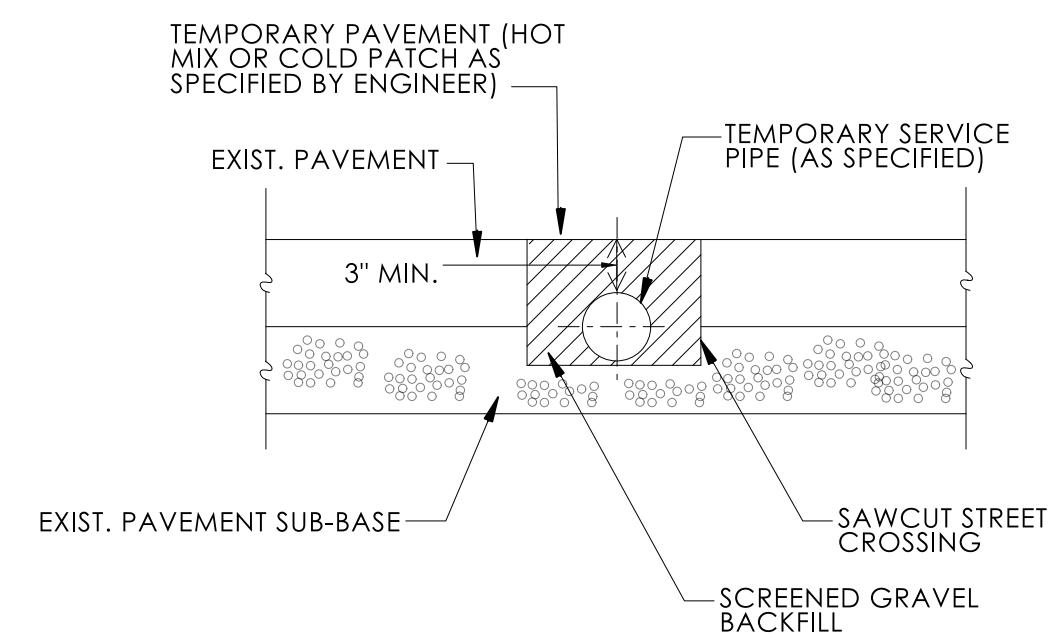
TYPICAL TRENCH DETAIL FOR D.I. WATER MAIN
NTS



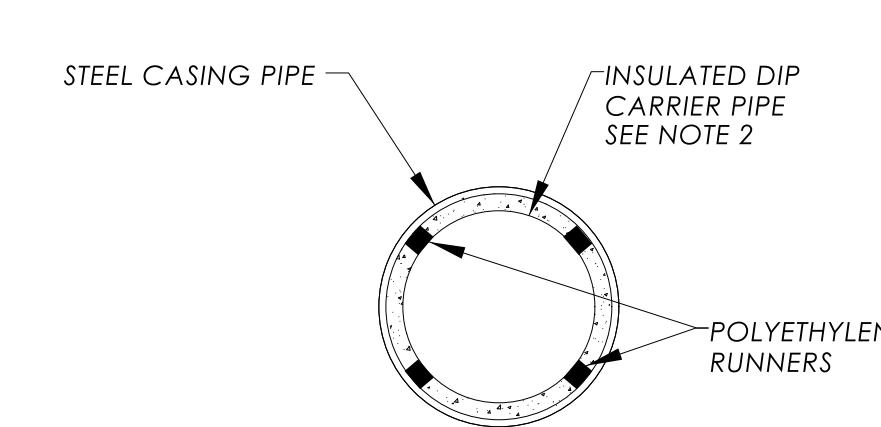
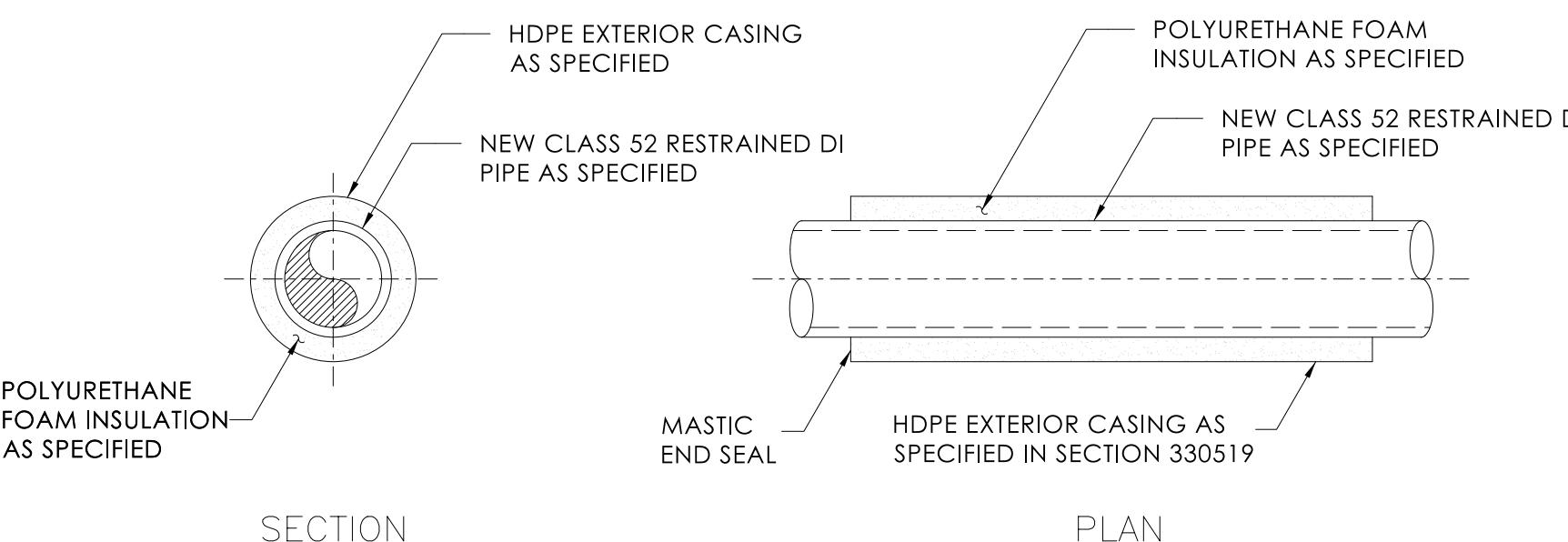
TYPICAL GATE VALVE AND BOX DETAIL
NTS



VERTICAL GATE VALVE INSTALLATION DETAIL
NTS



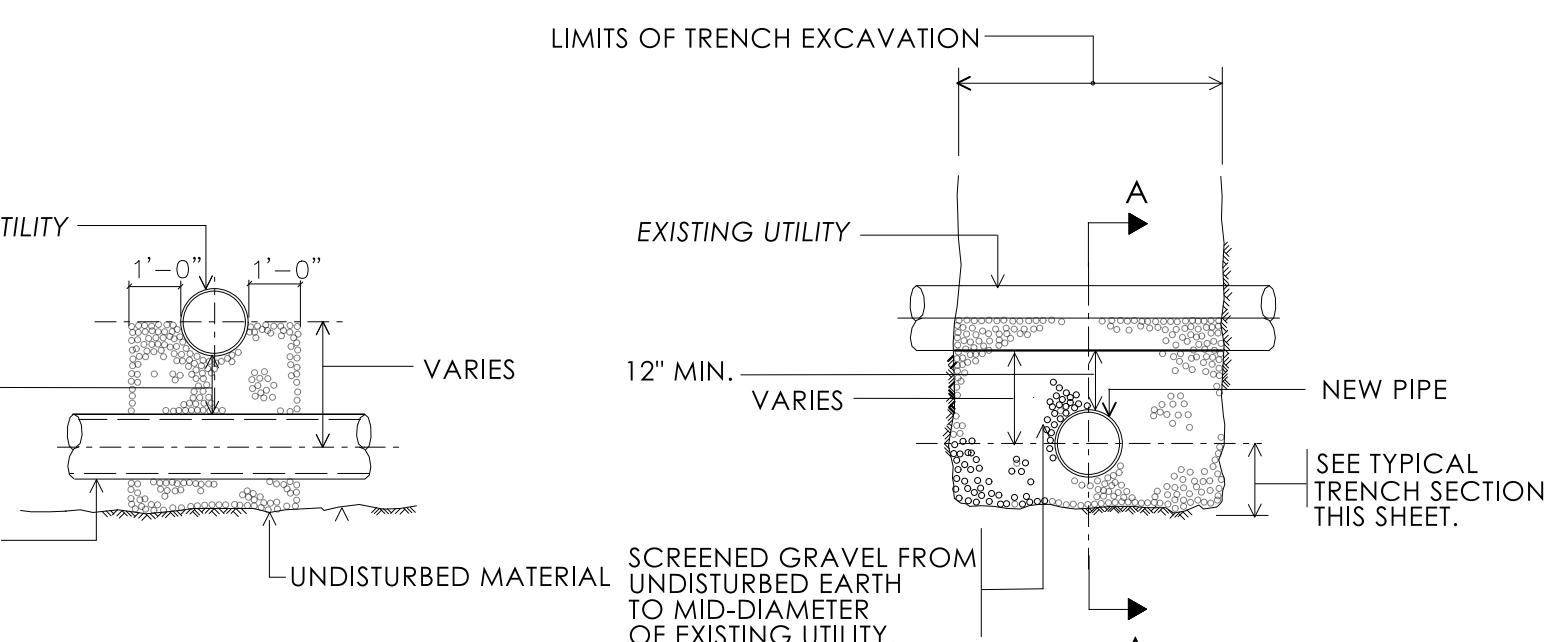
TYPICAL TEMPORARY SERVICE PIPE STREET CROSSING DETAIL
NTS



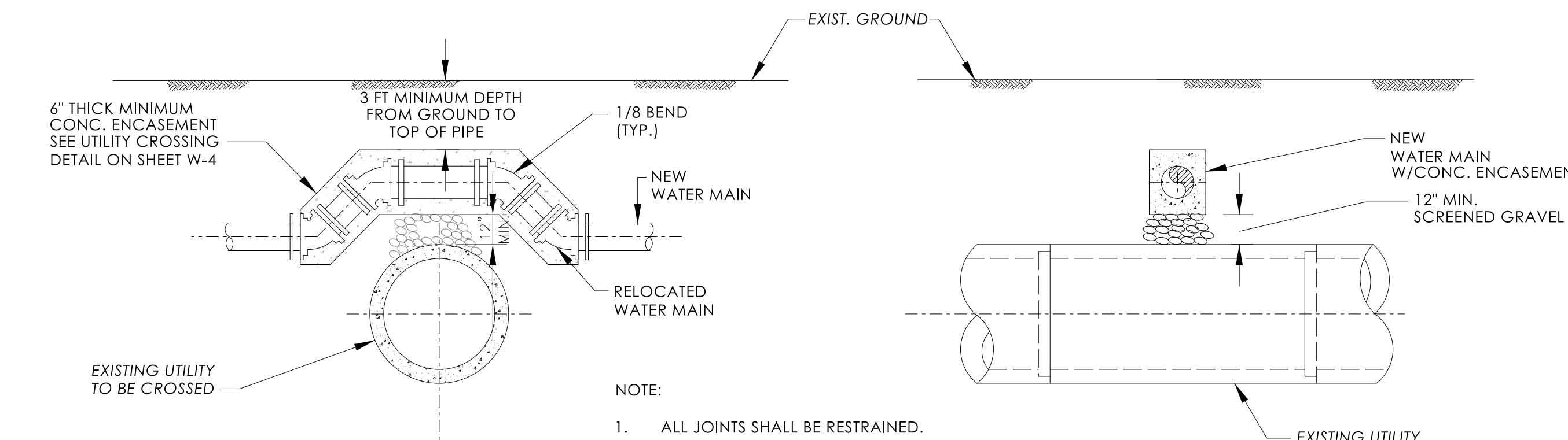
NOTE:

1. INSTALL PIPE INSULATION AT ALL LOCATIONS WHERE NEW WATER MAIN WILL BE BURIED WITH LESS THAN 4 FEET OF COVER. CONTRACTOR SHALL DETERMINE DEPTHS AT ALL UTILITY CROSSINGS WITH TEST PITS PRIOR TO BEGINNING WATER MAIN INSTALLATION.
2. TEMPORARY ABOVE GROUND BYPASS PIPE SHALL BE INSULATED FOR THE ENTIRE LENGTH OF THE WATER MAIN.
3. PERMANENT WATER MAIN SHALL BE INSULATED AS SPECIFIED IN NOTE 1 ABOVE.

TYPICAL PIPE INSULATION
NTS



TYPICAL SECTION

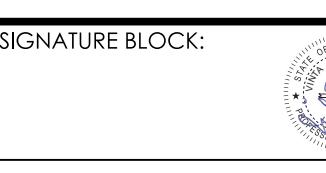


WATER MAIN UTILITY CROSSING WITH LESS THAN 4-FEET DEPTH OF COVER DETAIL
NTS

NOTE:

1. ALL JOINTS SHALL BE RESTRAINED.
2. NEW WATER MAIN WITH LESS THAN 4 FEET DEPTH OF COVER SHALL BE INSULATED

REV.	DATE	REVISION DESCRIPTION



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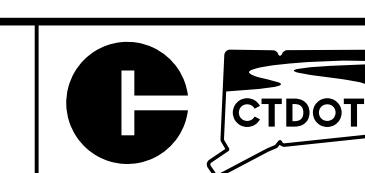
DATE:

10/4/2025

REVISION:

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CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):

PUTNAM

DRAWING TITLE:

WATER MAIN DETAILS 1

PROJECT NO.:

0115-0122

DRAWING NO.:

W-4

SHEET NO.:

06.05

THRUST BLOCK BEARING AREAS FOR DUCTILE IRON
HORIZONTAL BENDS

PIPE DIAMETER (INCHES)	BEND ANGLE (DEGREES)	EQUIVALENT BEARING AREA (SQUARE FEET)
8 & 16	11.25	7
	22.5	14
	45	27

THRUST BLOCK BEARING AREAS FOR DUCTILE IRON
TEES

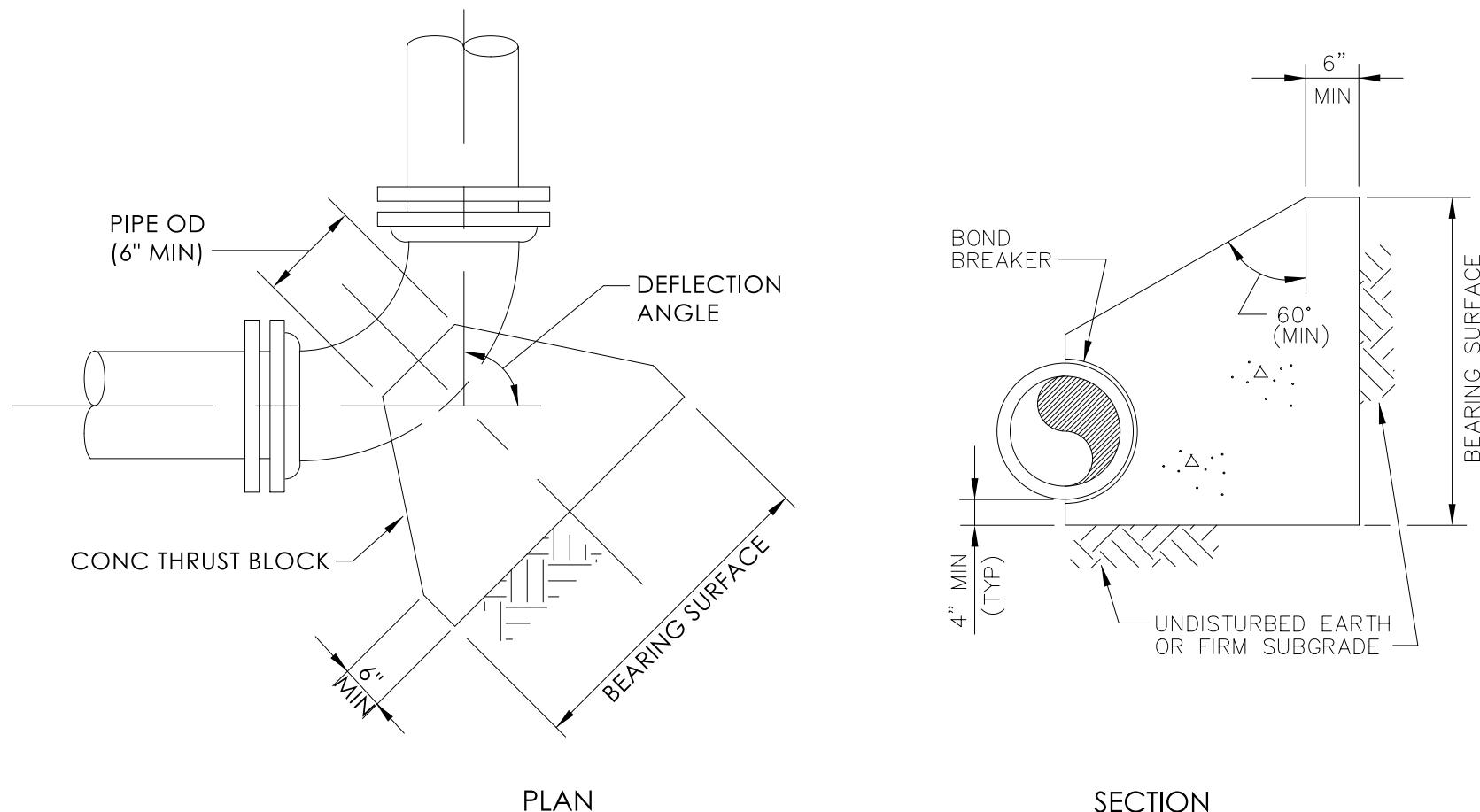
PIPE DIAMETER (INCHES)	BRANCH DIAMETER (INCHES)	EQUIVALENT BEARING AREA (SQUARE FEET)
8 & 16	6	7
	8	10
	12	21
	16	36

THRUST BLOCK BEARING AREAS FOR DUCTILE IRON
REDUCERS

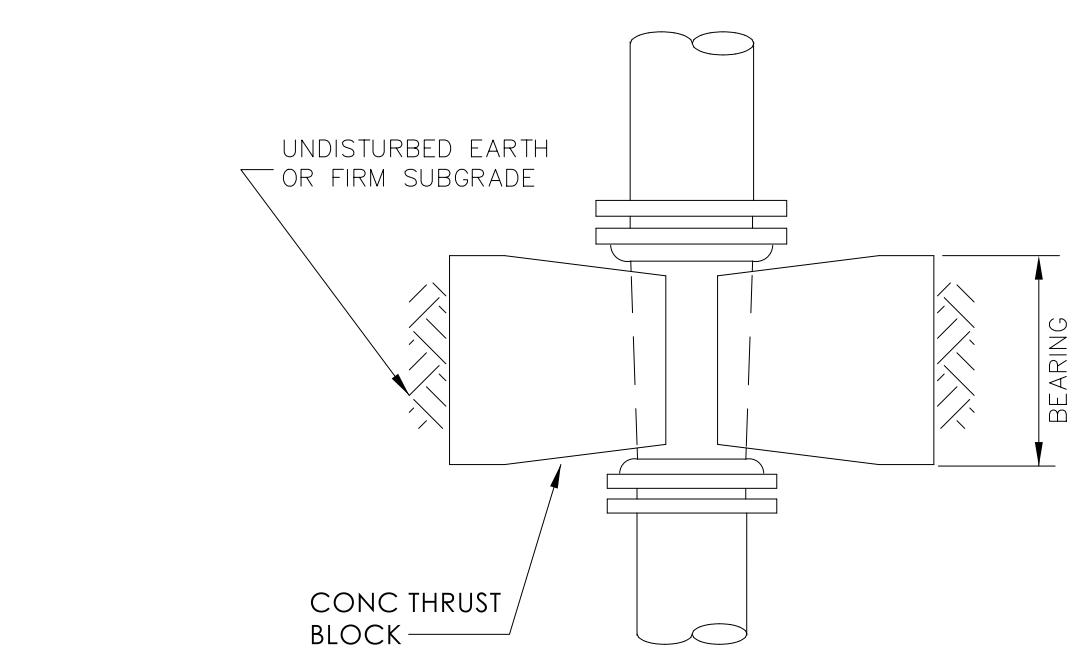
LARGE PIPE DIAMETER (INCHES)	SMALL PIPE DIAMETER (INCHES)	EQUIVALENT BEARING AREA (SQUARE FEET)
8 & 16	6	30
	8	26
	12	15

THRUST BLOCK BEARING AREAS FOR DUCTILE IRON
CAPS AND PLUGS

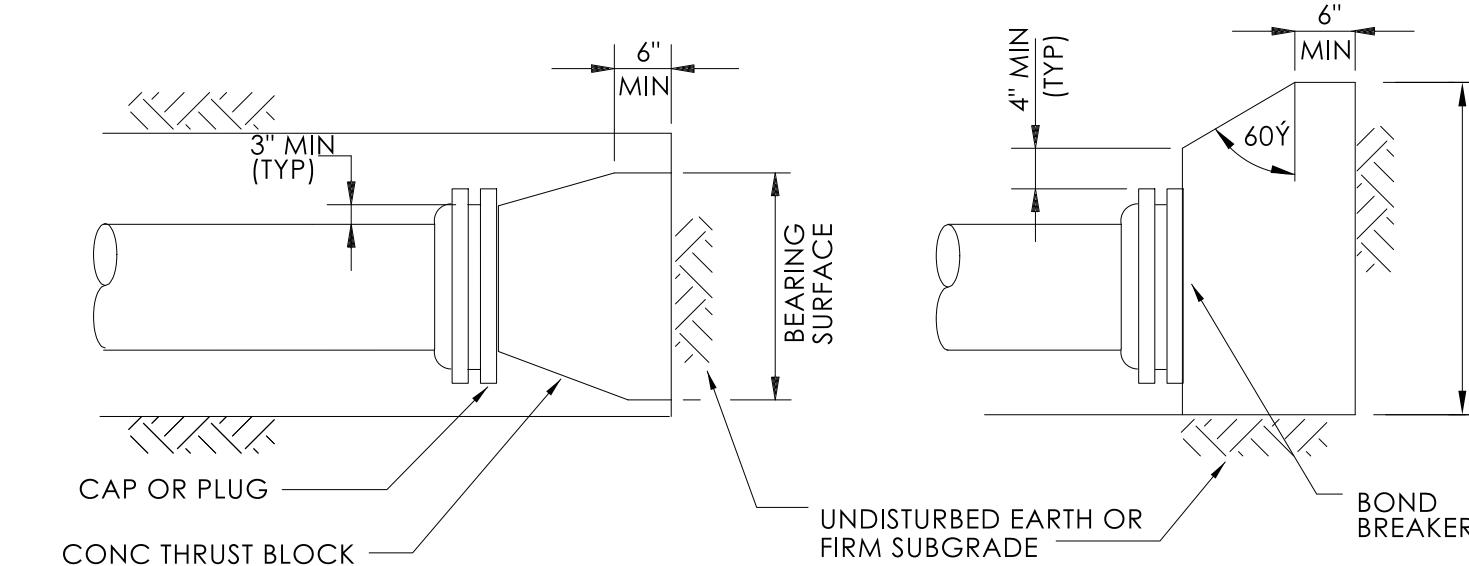
PIPE DIAMETER (INCHES)	EQUIVALENT BEARING AREA (SQUARE FEET)
8 & 16	36



DETAIL FOR HORIZONTAL BENDS
NTS



DETAIL FOR REDUCERS
NTS



DETAIL FOR CAPS, PLUGS, OR GATE VALVES
NTS

NOTES:

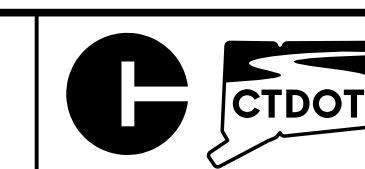
1. BEARING SURFACE FOR THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL. IF THE SOIL AT THE BACK OF THE TRENCH BECOMES DISTURBED THEN THE CONTRACTOR SHALL PLACE GRAVEL FILL BETWEEN THE BEARING SURFACE AND UNDISTURBED SOIL THAT MUST BE COMPAKTED TO AT LEAST 90% STANDARD PROCTOR DENSITY FOR THE ENTIRE DEPTH.
2. THRUST BLOCK HEIGHT SHOULD BE EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK, BUT NOT LESS THAN THE PIPE DIAMETER.
3. THRUST BLOCK HEIGHT SHOULD BE SELECTED SUCH THAT THE BLOCK WIDTH VARIES BETWEEN ONE AND TWO TIMES THE BLOCK HEIGHT.
4. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM DENSITY OF 120 POUNDS PER CUBIC FOOT AND COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
5. BEARING AREA FOR THRUST BLOCKS SHOWN IN THESE TABLES IS FOR THE TOTAL EQUIVALENT BEARING AREA SURFACE.

CONCRETE THRUST BLOCK DETAILS
NTS

REVISION	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:
DATE:
DESIGNER/DRAFTER: BSZ
CHECKED BY: MJC

NOT TO SCALE



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF RETAINING WALL ALONG ROUTE 44

TOWN(S):

PUTNAM

DRAWING TITLE:

WATER MAIN DETAILS 2

PROJECT NO.:
0115-0122

DRAWING NO.:
W-5
SHEET NO.:
06.06