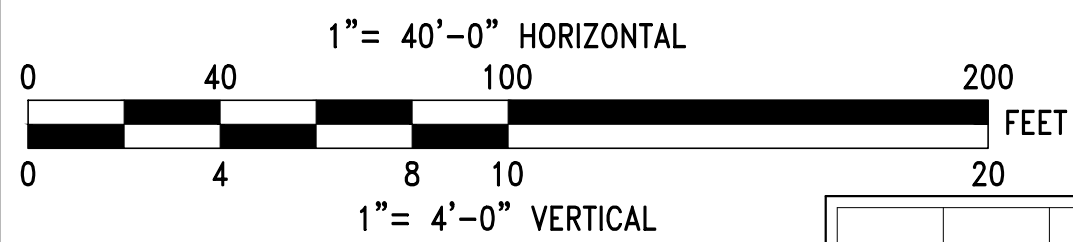
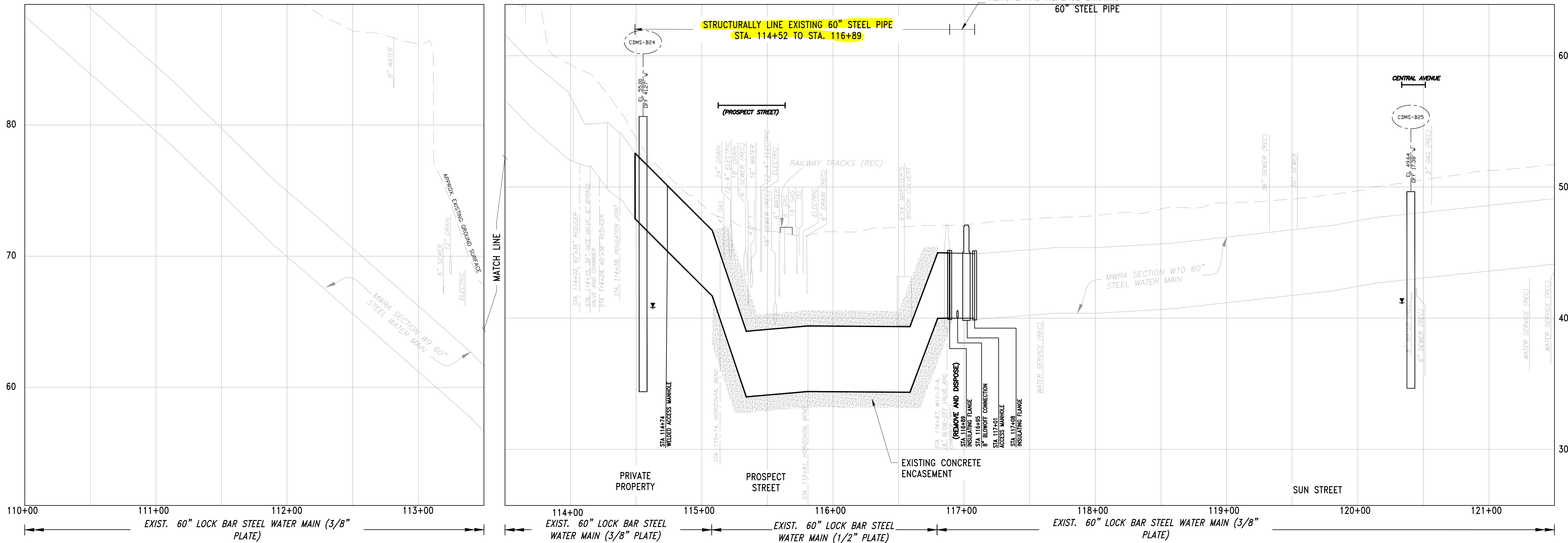
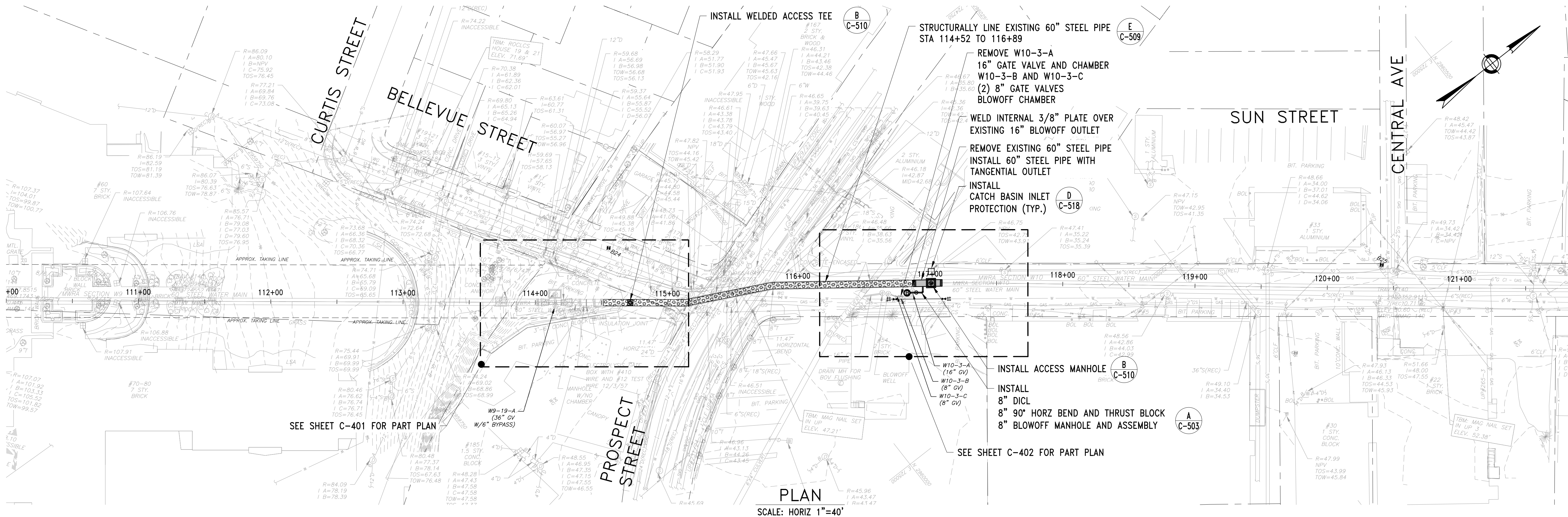
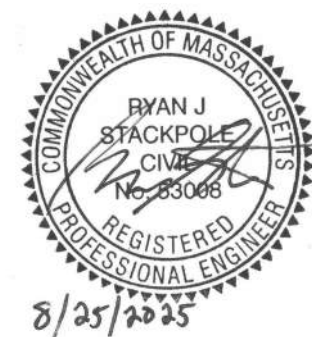


FILE NAME: \\US0552-PFSS01\workgroup\1951\active\195150185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-101-C-102.dwg LAYOUT NAME: C-101 SECTION W10 PLAN AND PROFILE STA 110+50 TO STA 121+50 PLOTTED: Friday, August 22, 2025 - 12:03pm USER: umarcina



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-101-C-102
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS NOTED	DRAWN BY:	TJC
		CHECKED BY:	NRB
		APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



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BURLINGTON, MA 01803
www.stantec.com

WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

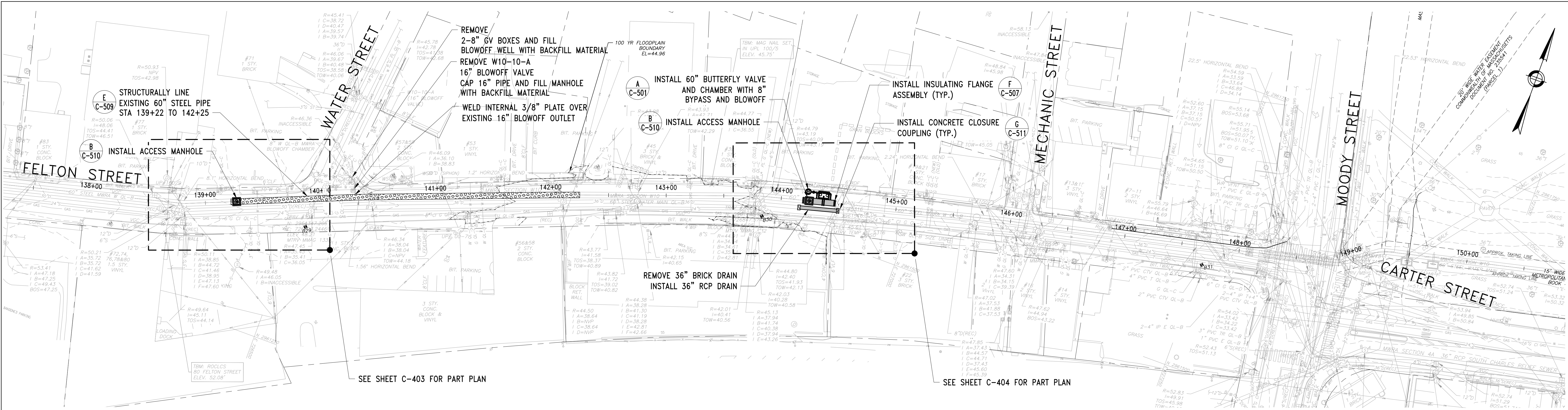
SECTION W10 PLAN AND PROFILE STA 110+50
TO STA 121+50

DRAWING NO.

C-101

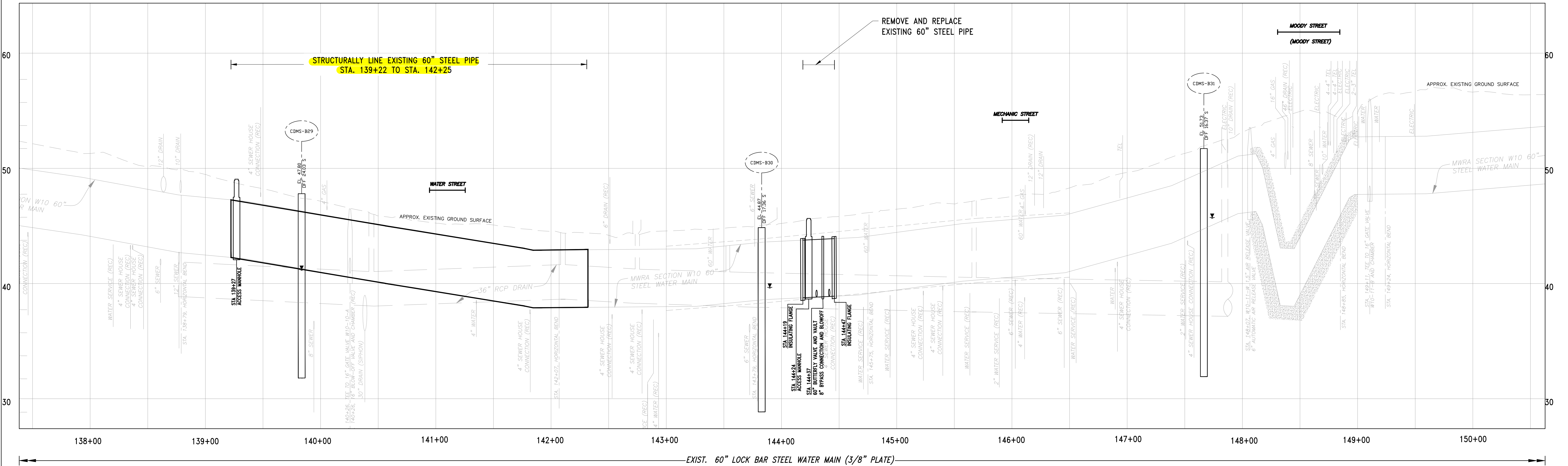
7 OF 83

FILE NAME: \\US0552-PPSS01\workgroup\1951\active\19510105\CAD\2.2 Final Design\CPA\05 Civil\6443_C-101-C-102.dwg LAYOUT NAME: C-102 SECTION W10 PLAN AND PROFILE STA 137+50 TO STA 150+50 PLOTTED: Friday, August 22, 2025 - 12:05pm USER: umarcina



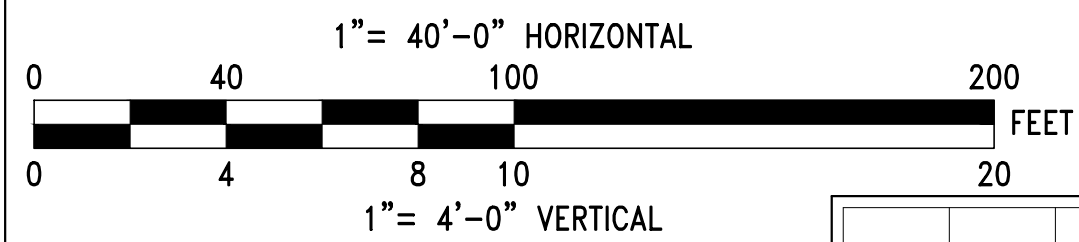
PLAN

SCALE HORIZ: 1"=40'



PROFILE

SCALE HORIZ: 1"=40'
VERT: 1"=4'



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-101-C-102
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS NOTED	DRAWN BY:	TJC
		CHECKED BY:	NRB
		APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

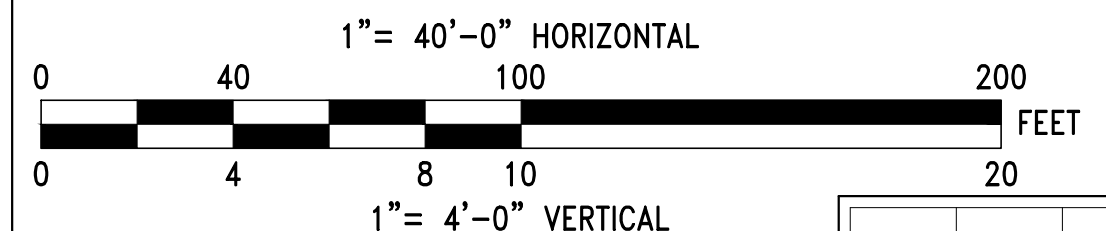
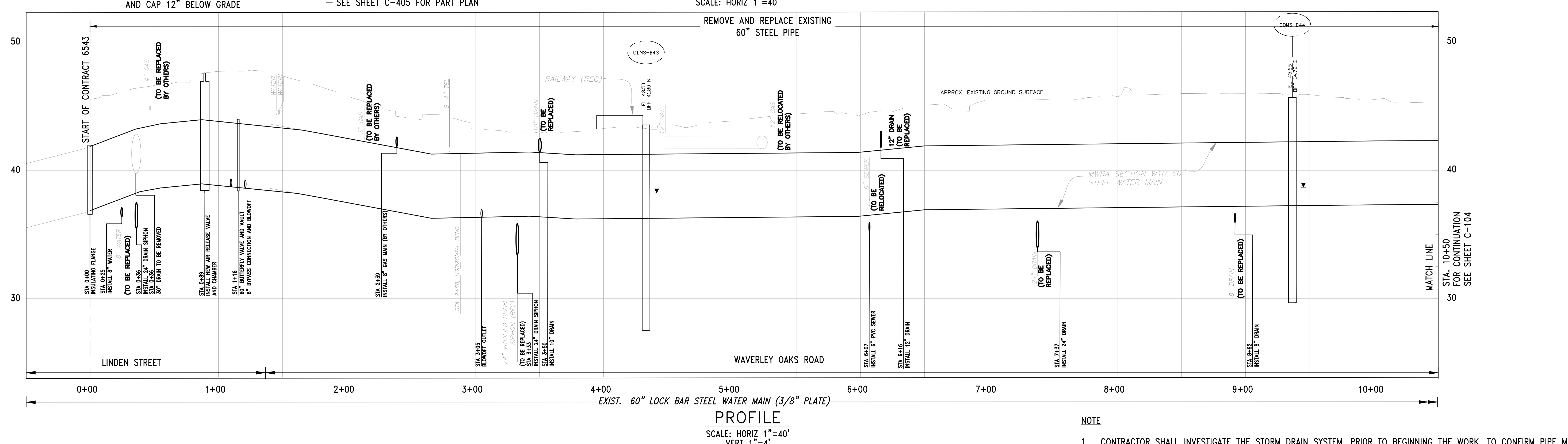
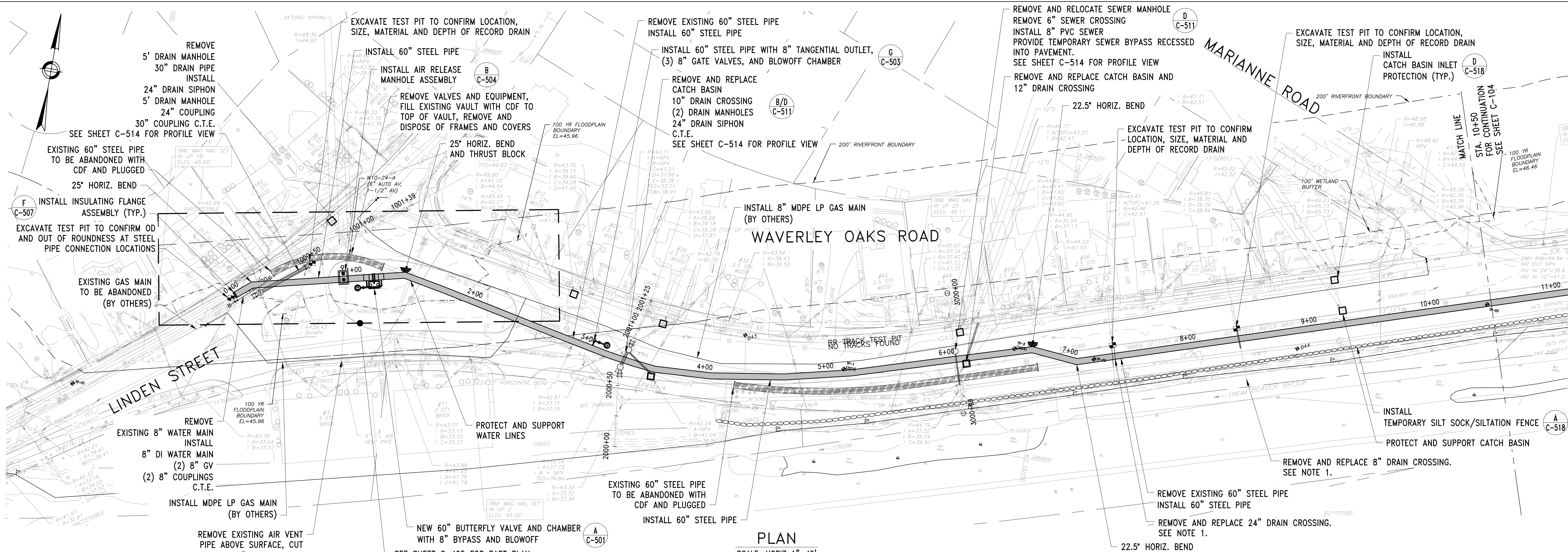
PREPARED BY :



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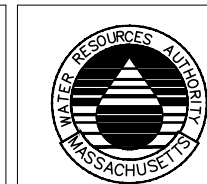
WESTON AQUEDUCT SUPPLY MAIN 3 REHABILITATION OF WATER MAINS SECTION W10	DRAWING NO. C-102
SECTION W10 PLAN AND PROFILE STA 137+50 TO STA 150+50	8 OF 83

FILE NAME: \\US0552-PFSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-103-C-C-105.dwg LAYOUT NAME: C-103 SECTION W10 PLAN AND PROFILE STA 0+00 TO STA 10+50 PLOTTED: Friday, August 22, 2025 - 12:12pm USER: dmsrjra



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543	FILE NO. : 6543_C-103-C-105
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
SCALE: AS NOTED	DRAWN BY: TJC
	CHECKED BY: NRB
	APPROVED BY: RJS



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PREPARED BY :



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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

SECTION W10 PLAN AND PROFILE STA
0+00 TO STA 10+50

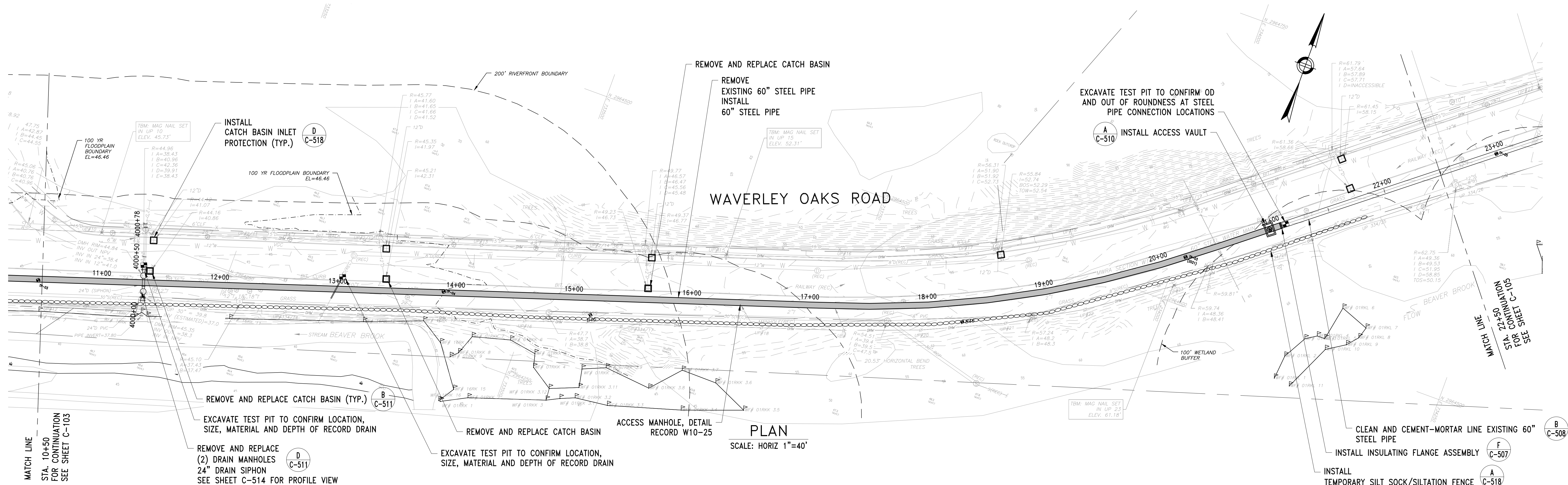
DRAWING NO.

C-103

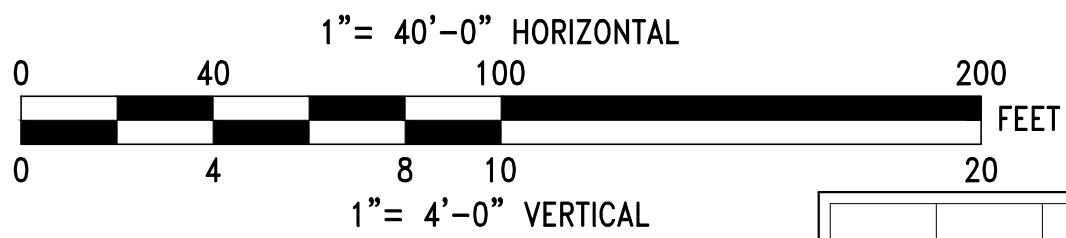
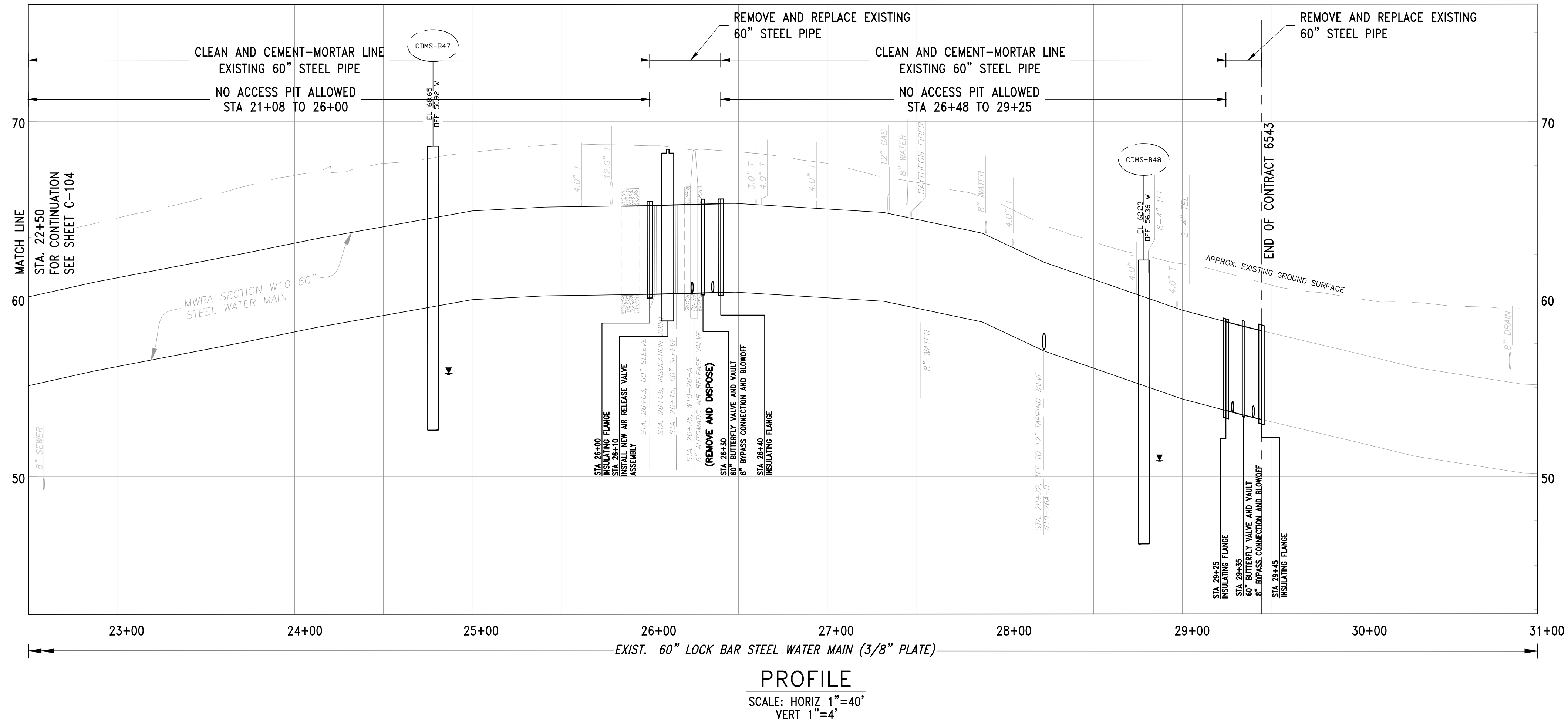
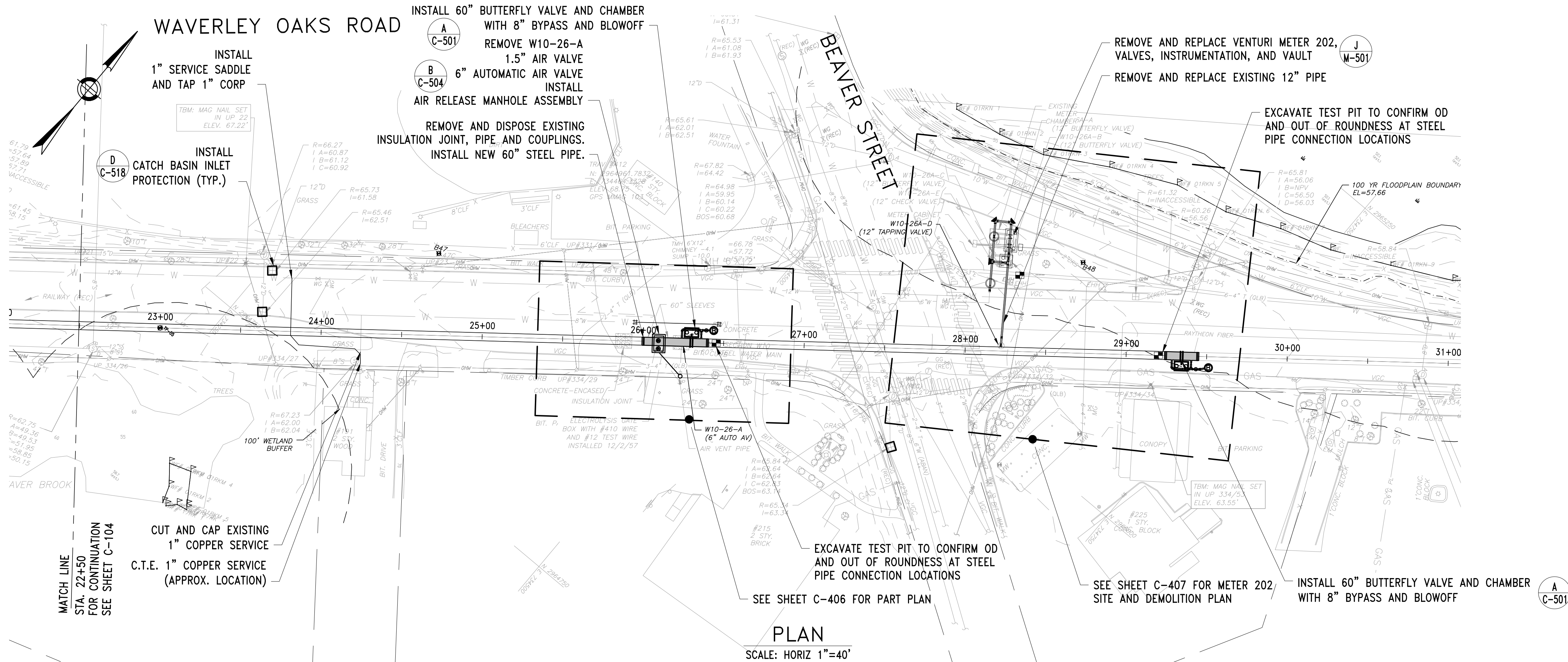
9 OF 83

- NOTE
- CONTRACTOR SHALL INVESTIGATE THE STORM DRAIN SYSTEM, PRIOR TO BEGINNING THE WORK, TO CONFIRM PIPE MATERIAL, CONNECTIVITY, AND DISCHARGE LOCATIONS. ALL INFORMATION SHALL BE PROVIDED TO THE AUTHORITY. IF DRAIN PIPE IS DETERMINED TO BE ABANDONED CONTRACTOR SHALL CUT AND PLUG PIPE AT THE LIMITS OF EXCAVATION.

FILE NAME: \\US0552-PPSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-103-C-105.dwg LAYOUT NAME: C-104 SECTION W10 PLAN AND PROFILE STA 10+50 TO STA 22+50 PLOTTED: Friday, August 22, 2025 - 12:15pm USER: amarcino



FILE NAME: \\US0552-PFSS01\workgroup\1951\active\1951\01\85\CAD\2.2 Final Design\CP2\05 Civil\6543_C-103-C-C-105.dwg LAYOUT NAME: C-105 SECTION W10 PLAN AND PROFILE STA 22+50 TO STA 30+00 PLOTTED: Friday, August 22, 2025 - 12:17pm USER: amarcino



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543	FILE NO. : 6543_C-103-C-105
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
SCALE: AS NOTED	DRAWN BY: TJC
	CHECKED BY: NRB
	APPROVED BY: RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

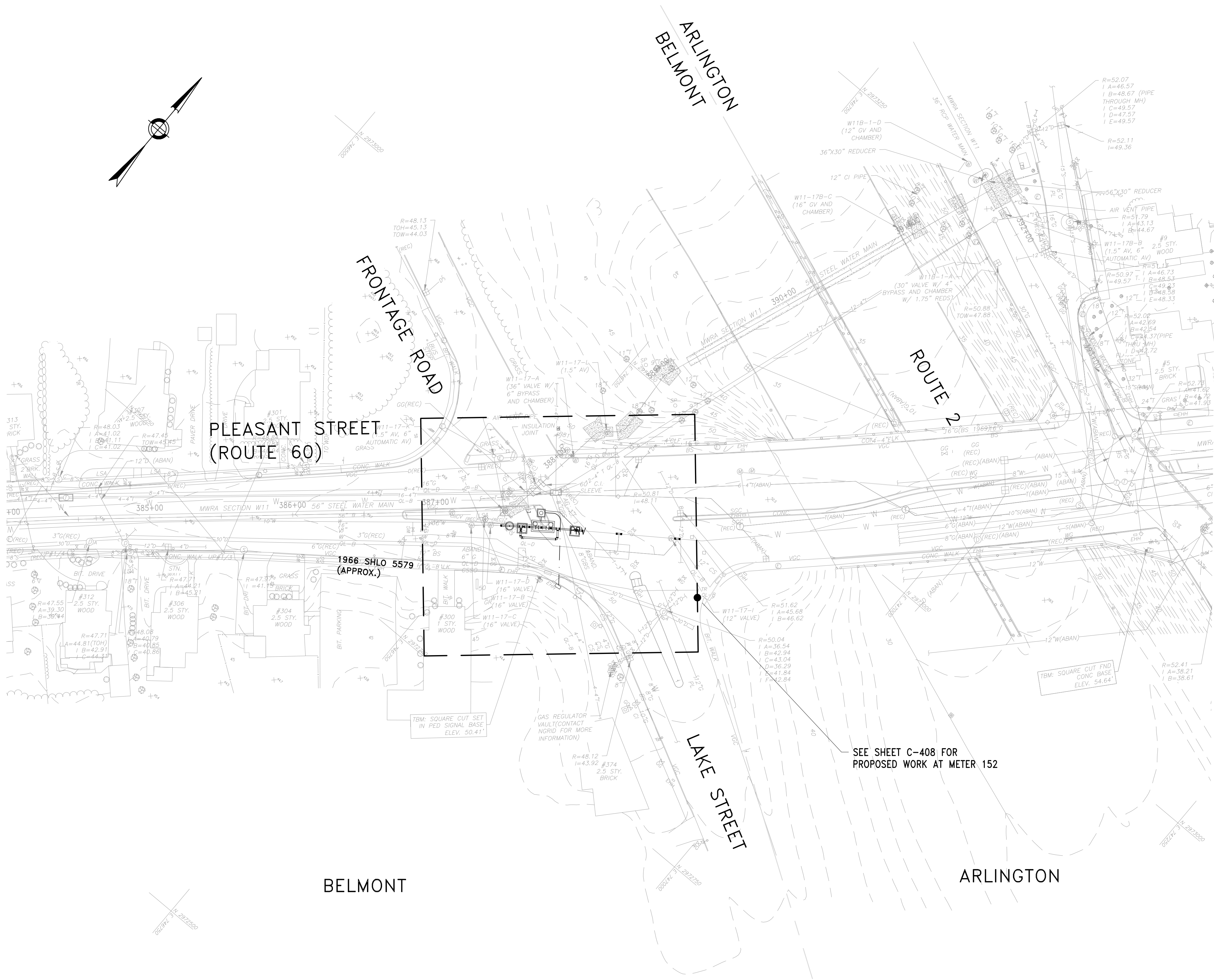
SECTION W10 PLAN AND PROFILE STA 22+50
TO STA 30+00

DRAWING NO.

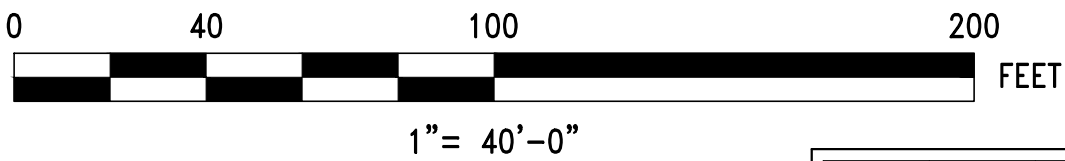
C-105

11 OF 83

FILE NAME: \\US0552-PFSS01\workgroup\1951\active\195150185\CAD\2.2 Final Design\CP2\05 Civil\6543_C-106.dwg LAYOUT NAME: C-106 SECTION W10 METER 152 REPLACEMENT PLAN PLOTTED: Friday, August 22, 2025 - 12:21pm USER: dmacrina




PLAN — METER 152
SCALE: HORIZ 1"=40'




NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-106
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
		DRAWN BY:	TJC
		CHECKED BY:	NRB
SCALE:	AS NOTED	APPROVED BY:	RJS



**MASSACHUSETTS WATER RESOURCES AUTHORITY**

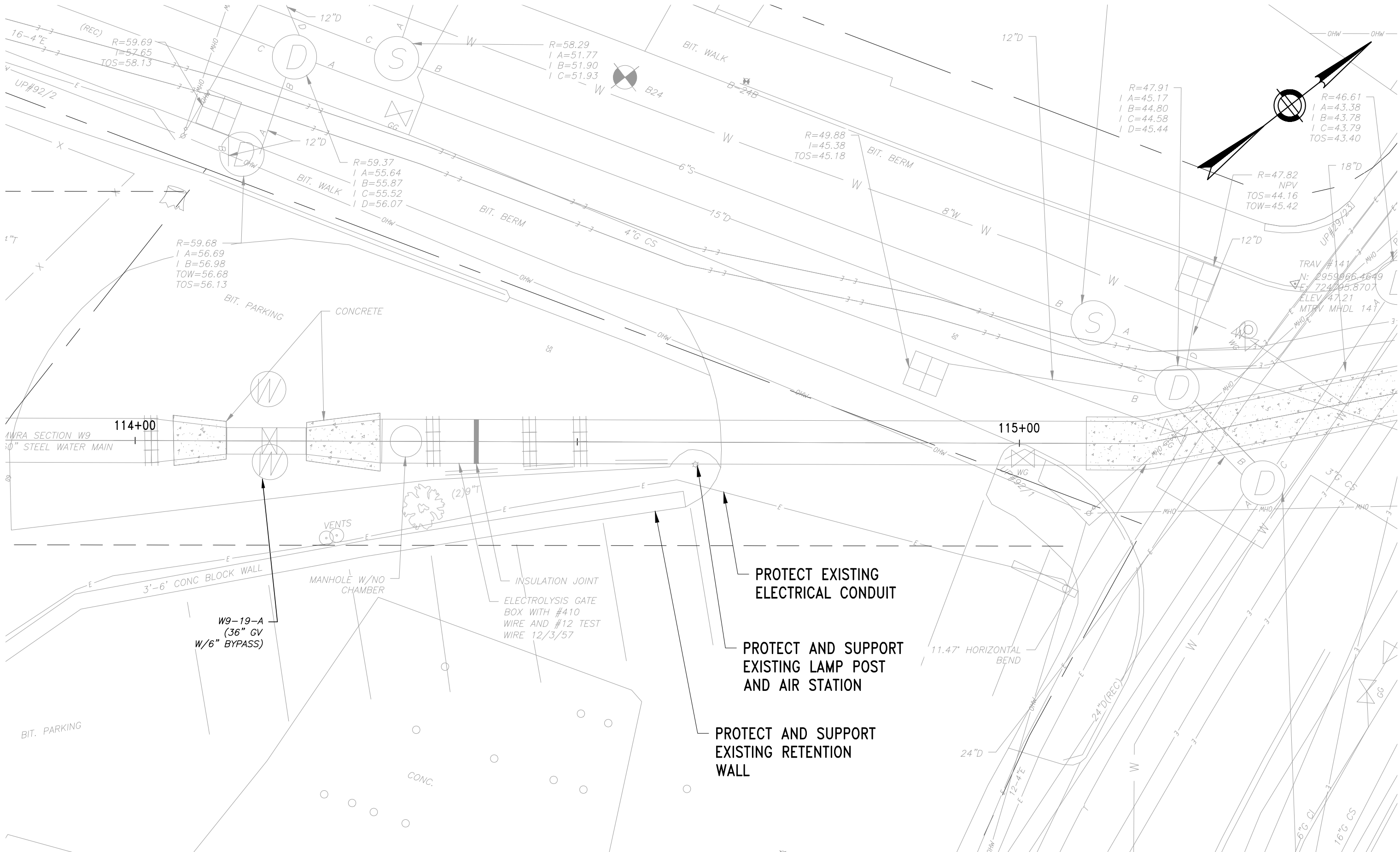
PREPARED BY :  **Stantec**

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BURLINGTON, MA 01803
www.stantec.com

WESTON AQUEDUCT SUPPLY MAIN 3 REHABILITATION OF WATER MAINS SECTION W10	
SECTION W10 METER 152 REPLACEMENT PLAN	

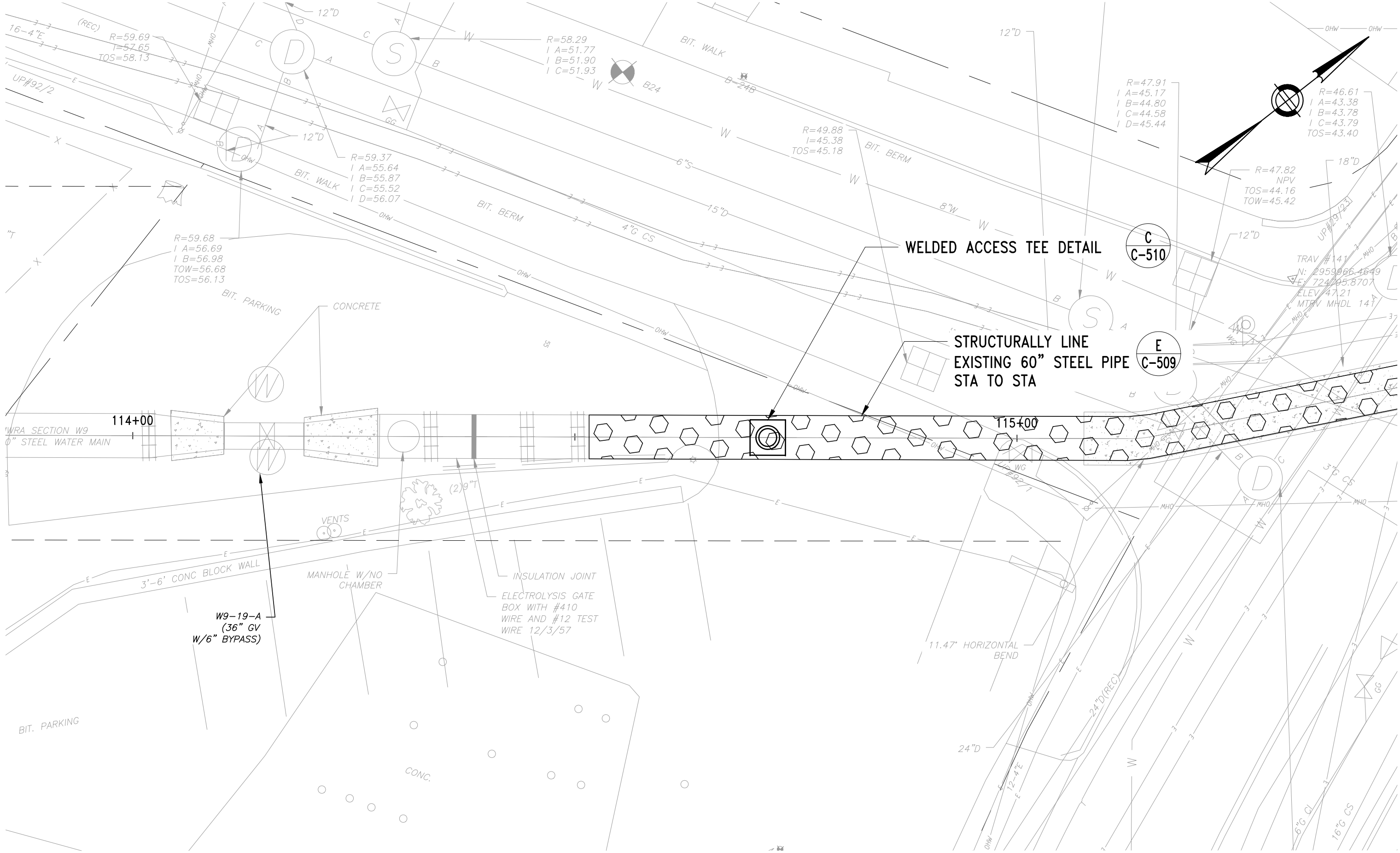
DRAWING NO.
C-106
12 OF 83

FILE NAME: \\US0552-PFSS01\workgroup\1951\active\195150185\CAD\2.2 Final Design\CP2\05 Civil\6543_C-401-C-404.dwg LAYOUT NAME: C-401 PART PLAN STA 114+50 PLOTTED: Friday, August 22, 2025 - 12:26pm USER: dmacrina



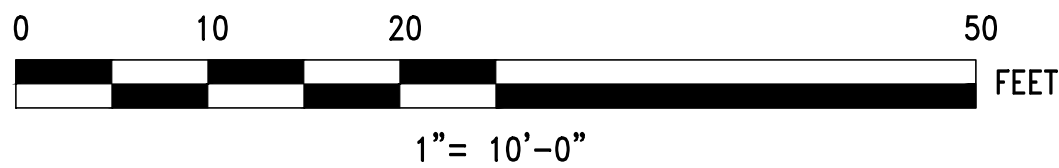
DEMO PLAN STA 114+50

SCALE: 1"=10'



PART PLAN STA 114+50

SCALE: 1"=10'



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543	FILE NO. : 6543_C-401-C-404
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
	DRAWN BY: TJC
	CHECKED BY: NRB
SCALE: AS NOTED	APPROVED BY: RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY:  Stantec

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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

PART PLAN STA 114+50

DRAWING NO.

C-401

13 OF 83

NOTE

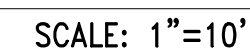
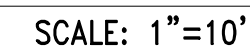
1. WELDED ACCESS TEE SHALL BE INSTALLED TO SUPPORT STRUCTURAL LINER ACCESS AND OPERATIONS. BACKFILL AND PAVING PER RESTORATION DETAILS AFTER COMPLETION OF STRUCTURAL LINER WORK AND TESTING.
2. SEE SHEETS C-410 THROUGH C-413 FOR SURFACE RESTORATION.

CONTRACT NO. : 6543	FILE NO. : 6543_C-401-C-404
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
	DRAWN BY: TJC
	CHECKED BY: NRB
SCALE: AS NOTED	APPROVED BY: RJS



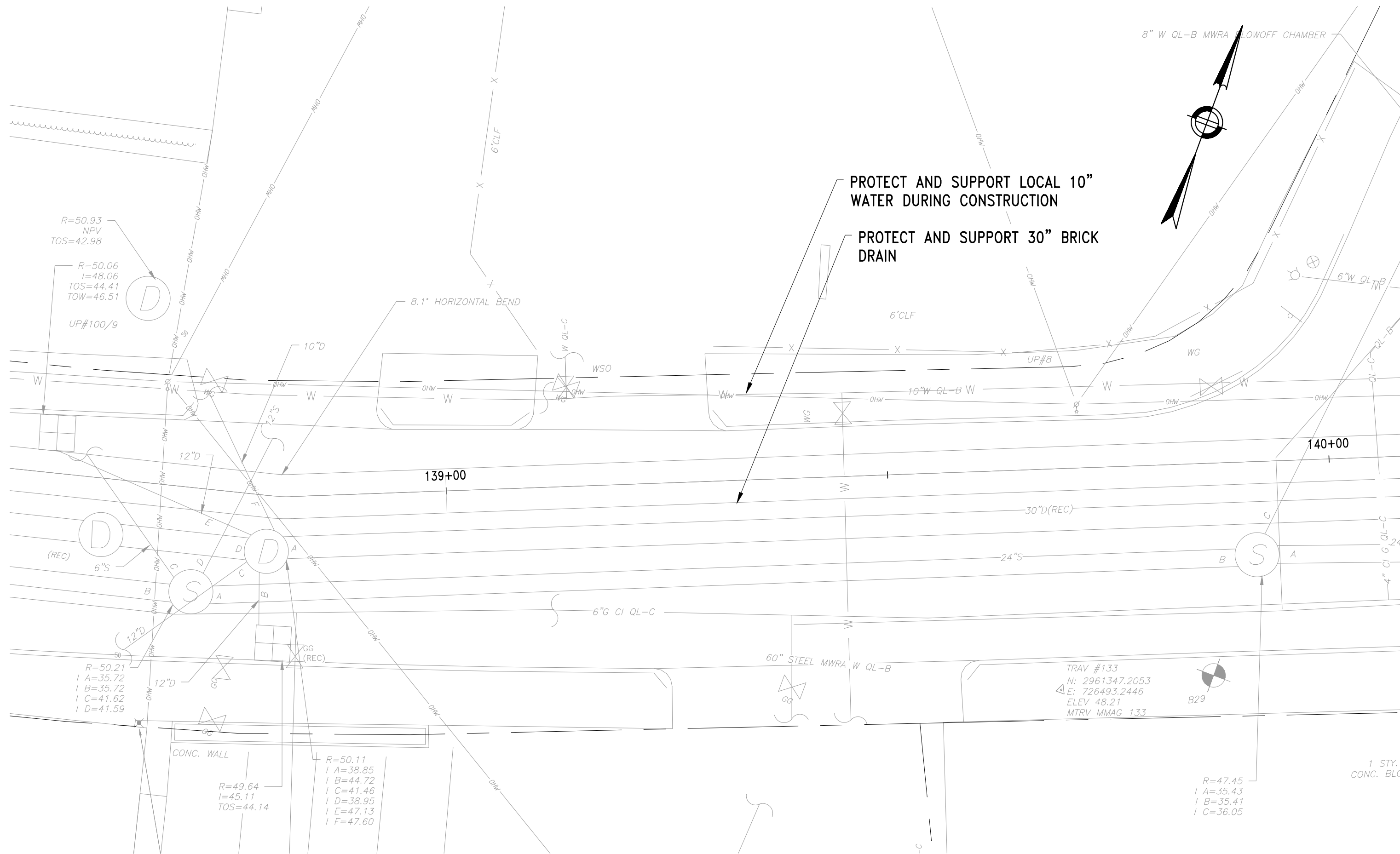
BY :  **Stantec**

4 OF 83



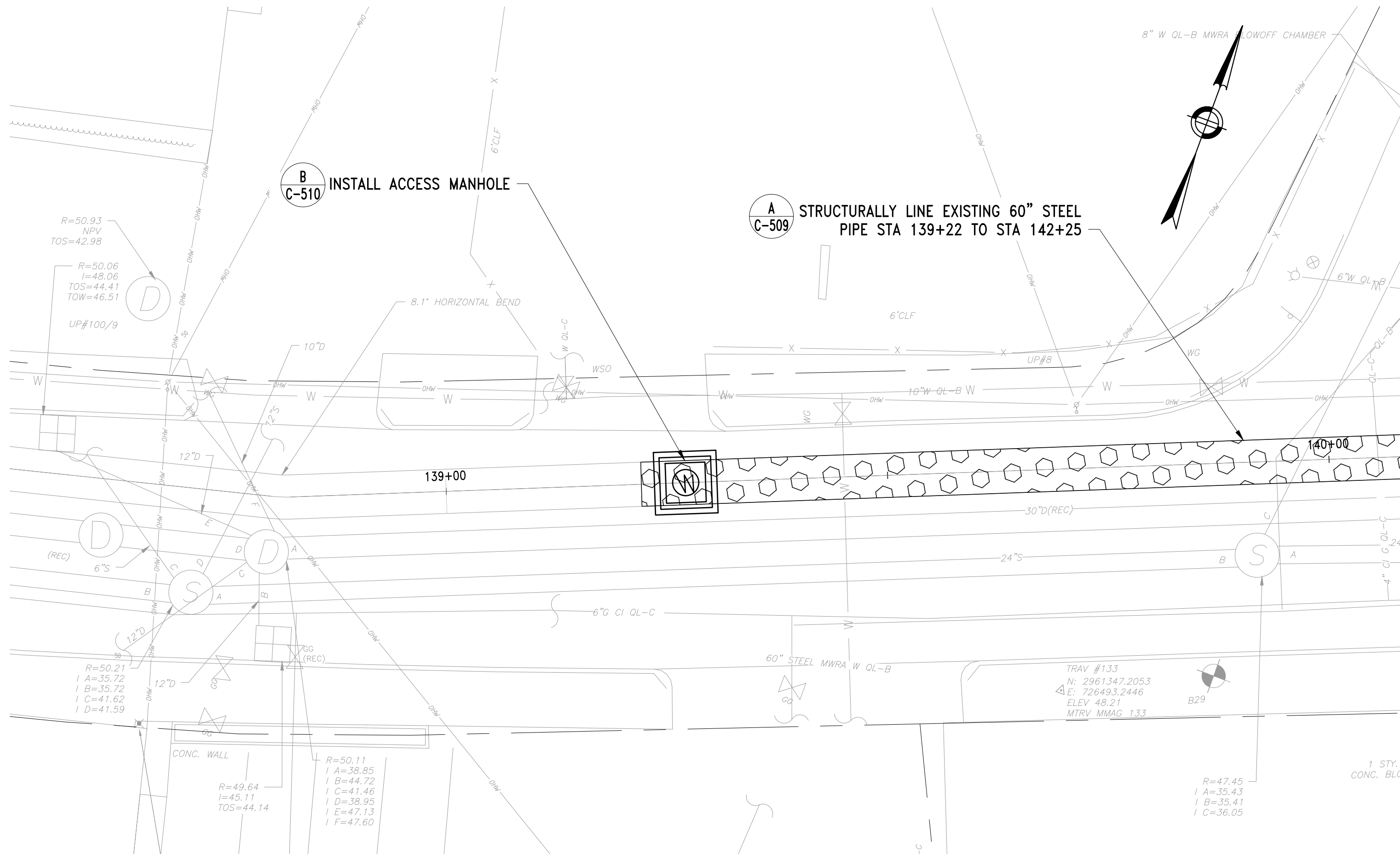
1. SEE SHEETS C-410 THROUGH C-413 FOR SURFACE RESTORATION.

FILE NAME: \\US0552-PPF501\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-401-C-404.dwg LAYOUT NAME: C-403 PART PLAN STA 139+50 PLOTTED: Friday, August 22, 2025 - 12:30pm USER: dmccrina



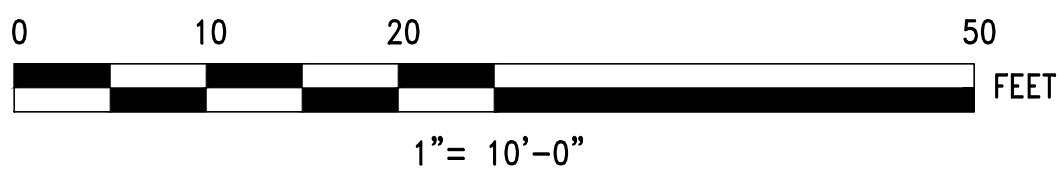
DEMO PLAN STA 139+50

SCALE: 1"=10'



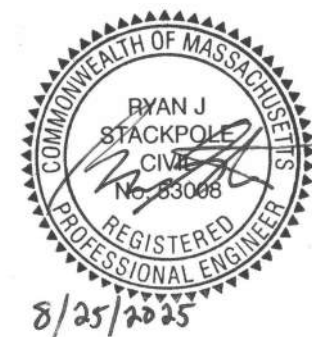
PART PLAN STA 139+50

SCALE: 1"=10'



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-401-C-404
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
		DRAWN BY:	TJC
		CHECKED BY:	NRB
SCALE:	AS NOTED	APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

PART PLAN STA 139+50

DRAWING NO.

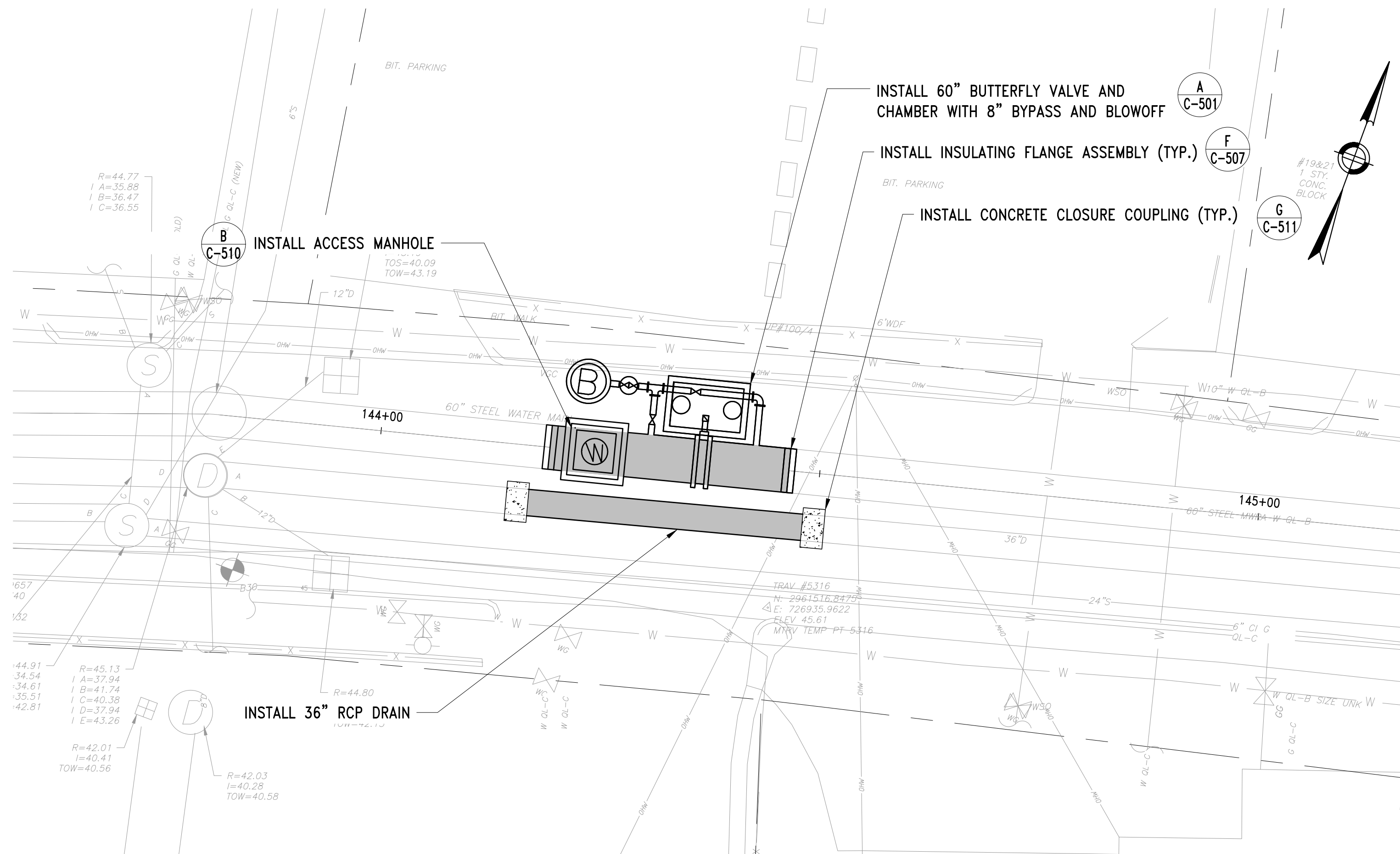
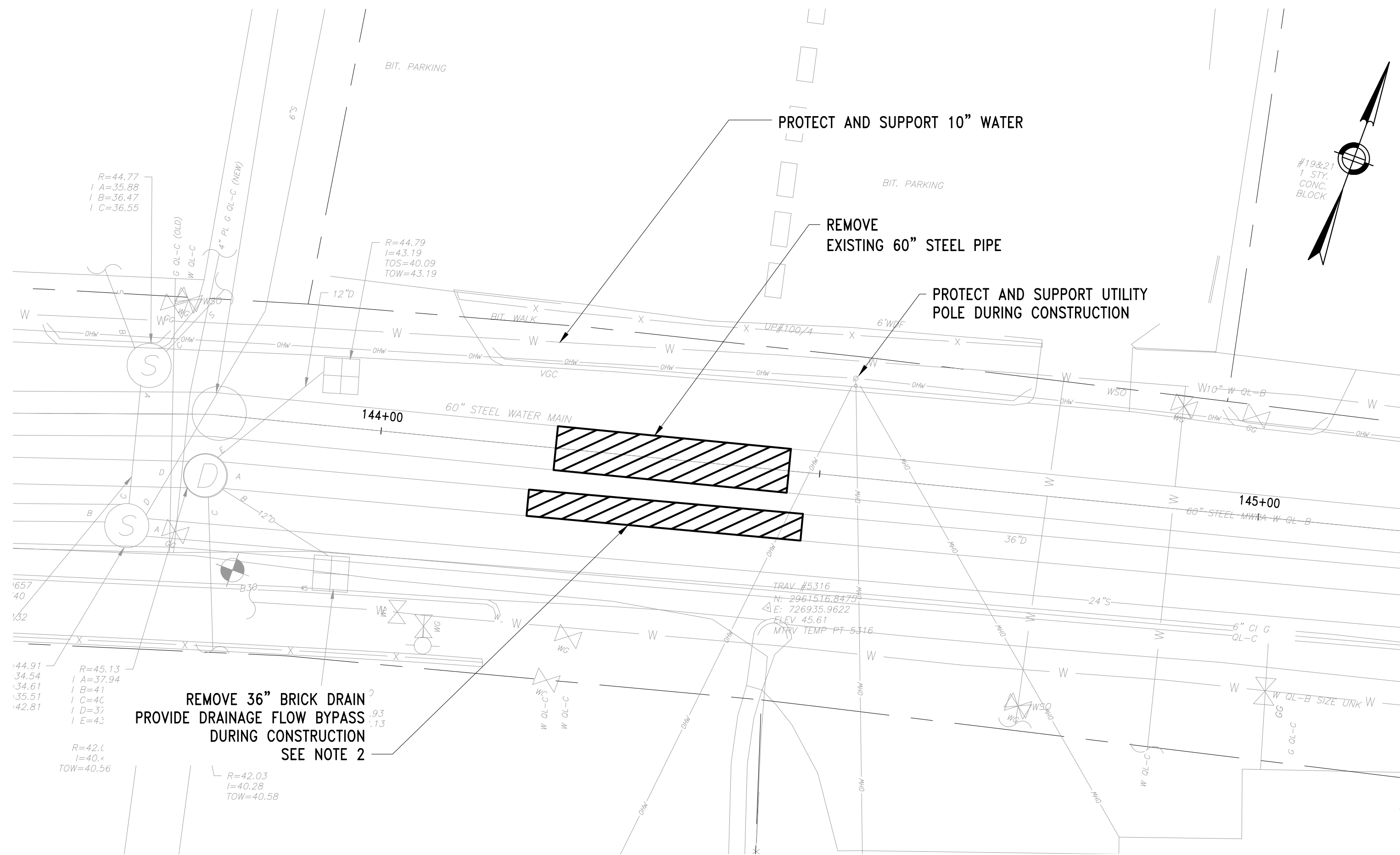
C-403

15 OF 83

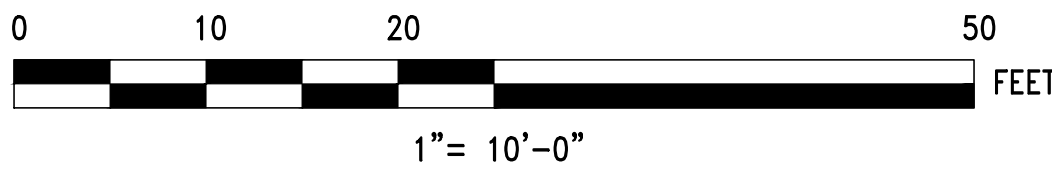
NOTE

- SEE SHEETS C-410 THROUGH C-413 FOR SURFACE RESTORATION.

FILE NAME: \\US0552-PFSS01\workgroup\1951\active\1951\05\85\CAD\2.2 Final Design\CP2\05 Civil\6543_C-401-C-404.dwg LAYOUT NAME: C-404 PART PLAN STA 144+50 PLOTTED: Friday, August 22, 2025 - 12:32pm USER: dmacrina



- NOTE
- SEE SHEETS C-410 THROUGH C-413 FOR SURFACE RESTORATION.
 - CONTRACTOR SHALL EXERCISE CAUTION WHEN CUTTING INTO EXISTING BRICKWORK DRAIN ON FELTON STREET. HISTORIC BRICKS IN THIS STRUCTURE EXHIBIT HIGHER-THAN-TYPICAL DENSITY AND HARDNESS.



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-401-C-404
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
		DRAWN BY:	TJC
		CHECKED BY:	NRB
SCALE:	AS NOTED	APPROVED BY:	RJS



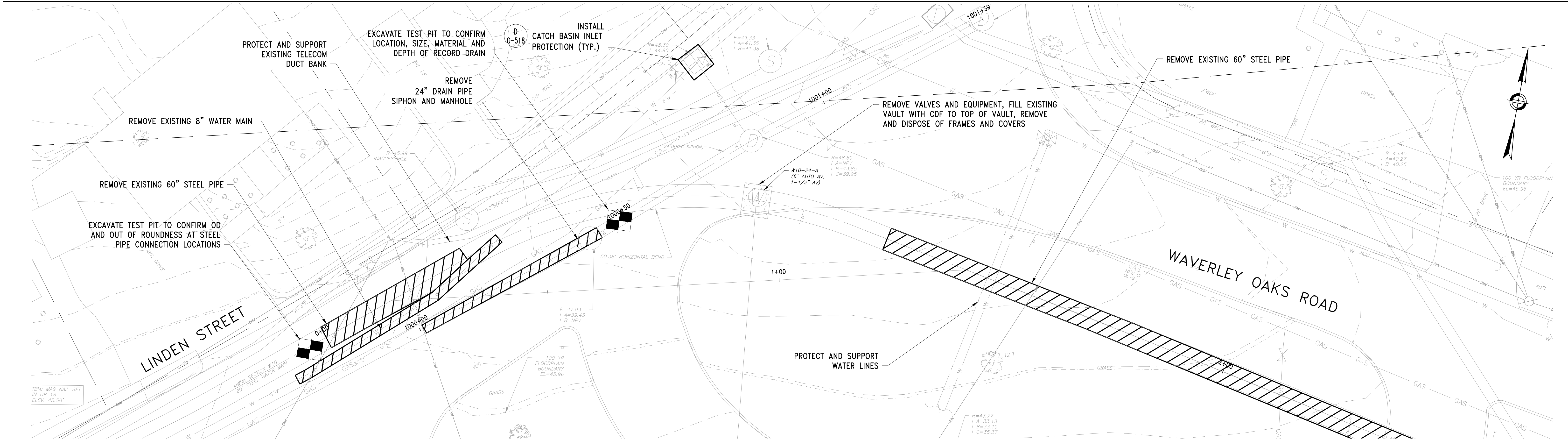
MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :

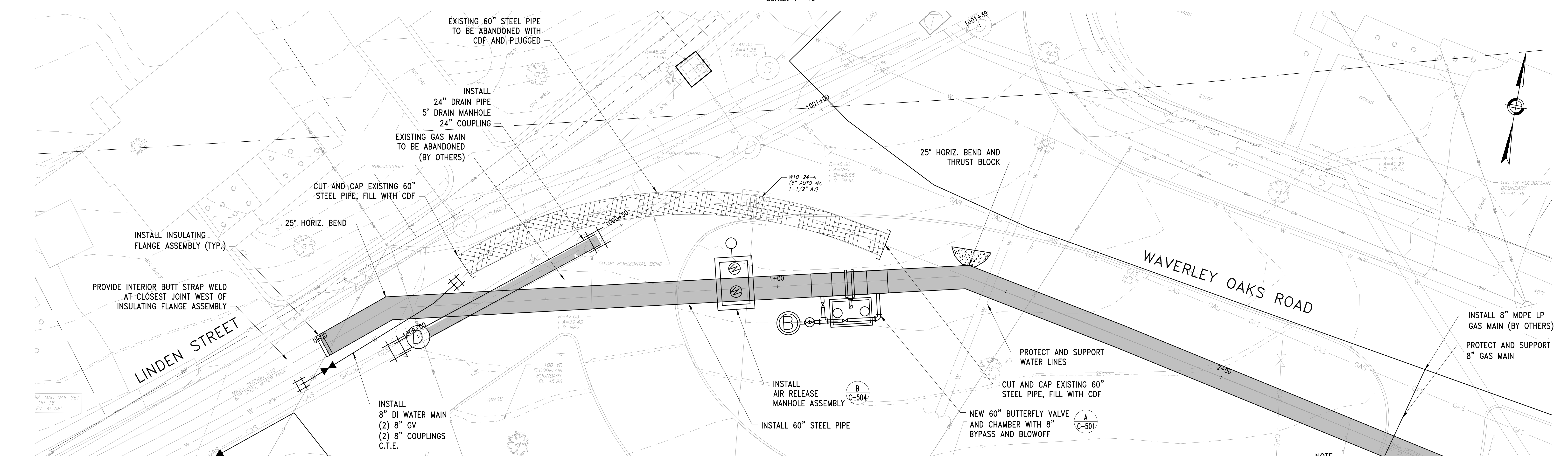
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WESTON AQUEDUCT SUPPLY MAIN 3 REHABILITATION OF WATER MAINS SECTION W10	DRAWING NO. C-404
PART PLAN STA 144+50	16 OF 83

FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510105\6543\CAD\2.2 Final Design\CPA\05 Civil\6543_C-405-406.dwg LAYOUT NAME: C-405 PART PLAN STA 0+00 TO 3+00 PLOTTED: Friday, August 22, 2025 -- 12:37pm USER: dmccrina

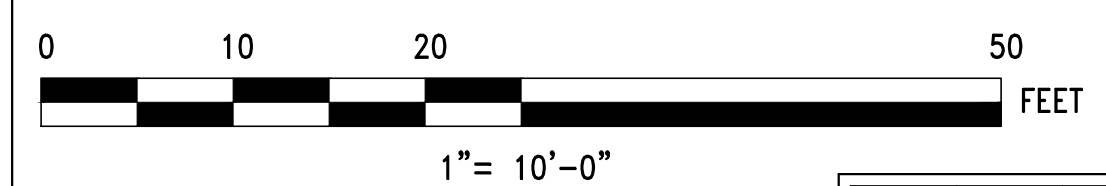


DEMO PLAN
SCALE: 1"=10'



PART PLAN
SCALE: 1"=10'

NOTE
1. SEE SHEETS C-410 THROUGH C-413 FOR SURFACE RESTORATION.



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-405-406
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS SHOWN	DRAWN BY:	TJC
		CHECKED BY:	NRB
		APPROVED BY:	RJS



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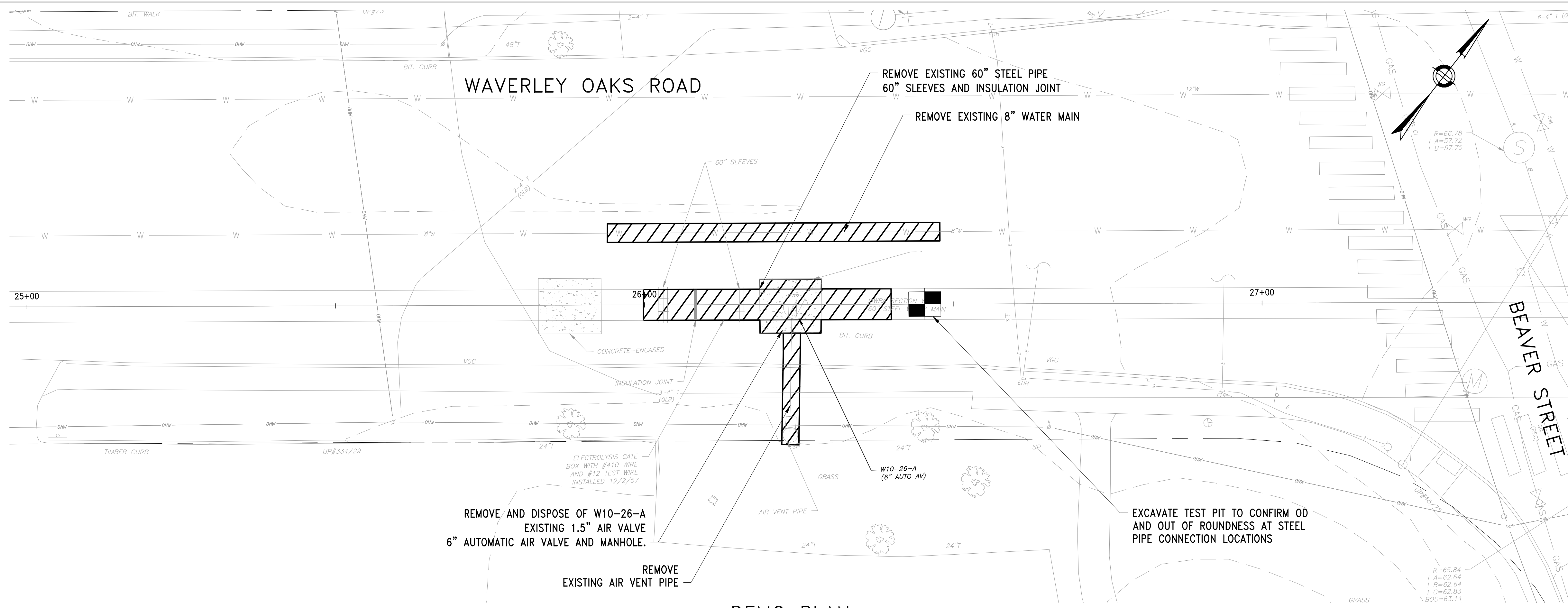
**WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10**

PART PLAN STA 0+00 TO 3+00

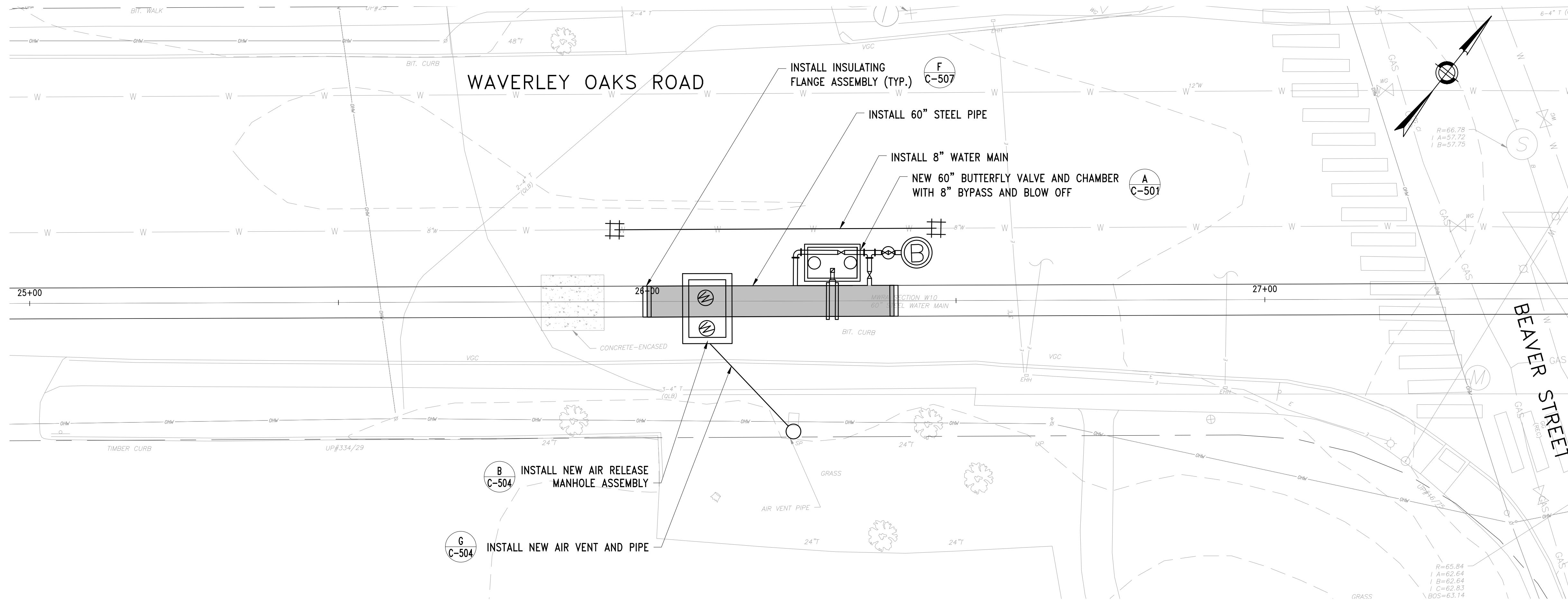
DRAWING NO.
C-405

17 OF 83

FILE NAME: \\US0552-PFSS01\workgroup\1951\active\195150185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-405-406.dwg LAYOUT NAME: C-406 PART PLAN STA 25+00 TO 27+50 PLOTTED: Friday, August 22, 2025 - 12:39pm USER: dmacrina



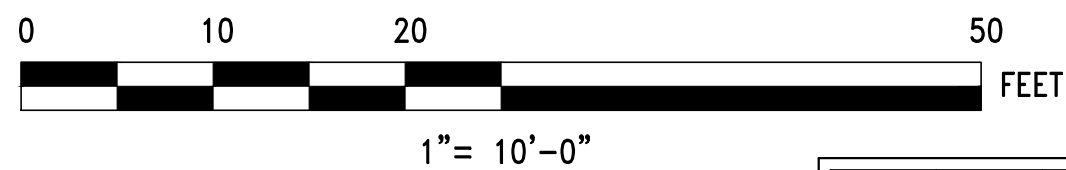
DEMO PLAN
SCALE: 1"=10'



PART PLAN
SCALE: 1"=10'

NOTE

- SEE SHEETS C-410 THROUGH C-413 FOR SURFACE RESTORATION.



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-405-406
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS SHOWN	DRAWN BY:	TJC
		CHECKED BY:	NRB
		APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

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BURLINGTON, MA 01803
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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

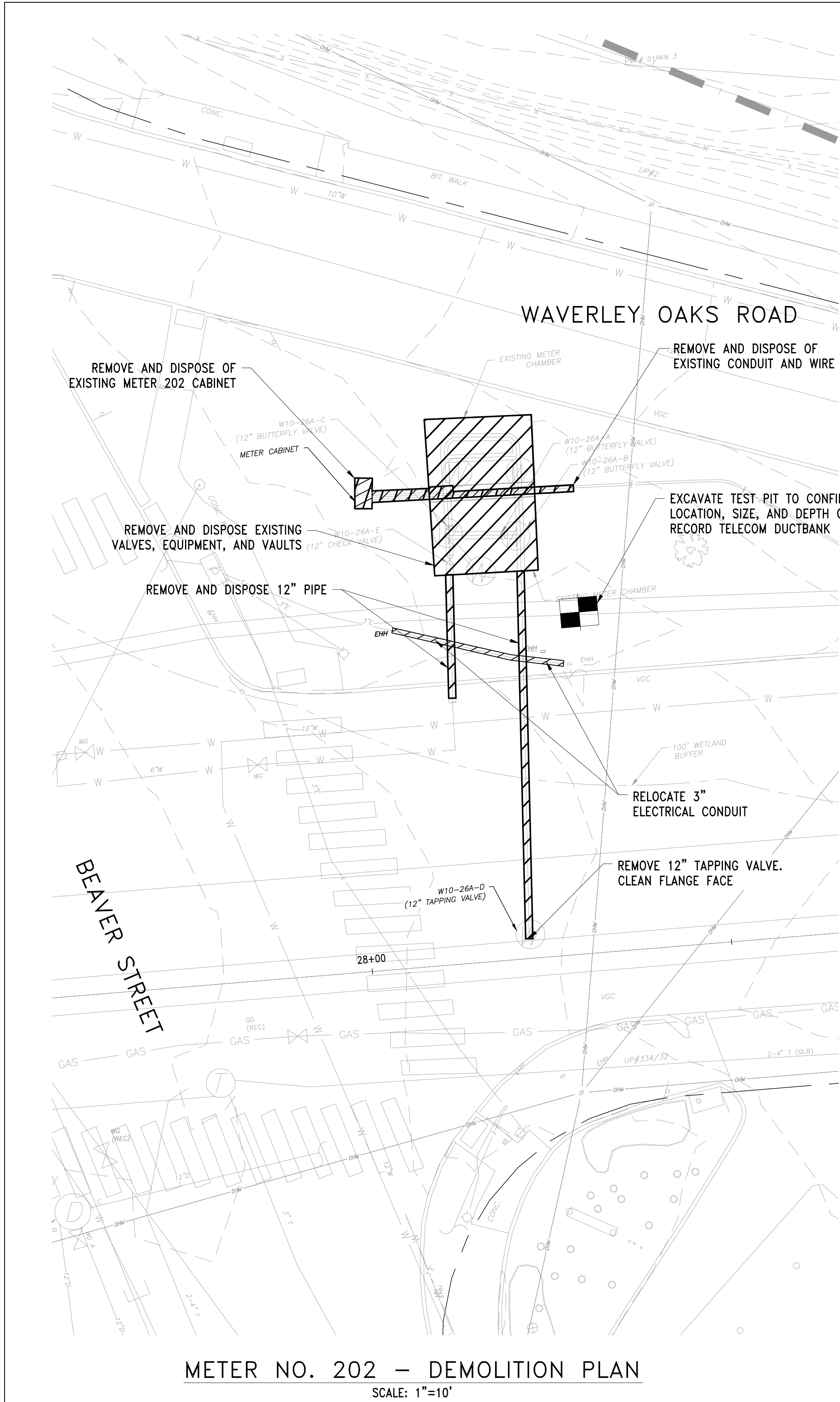
PART PLAN STA 25+00 TO 27+50

DRAWING NO.

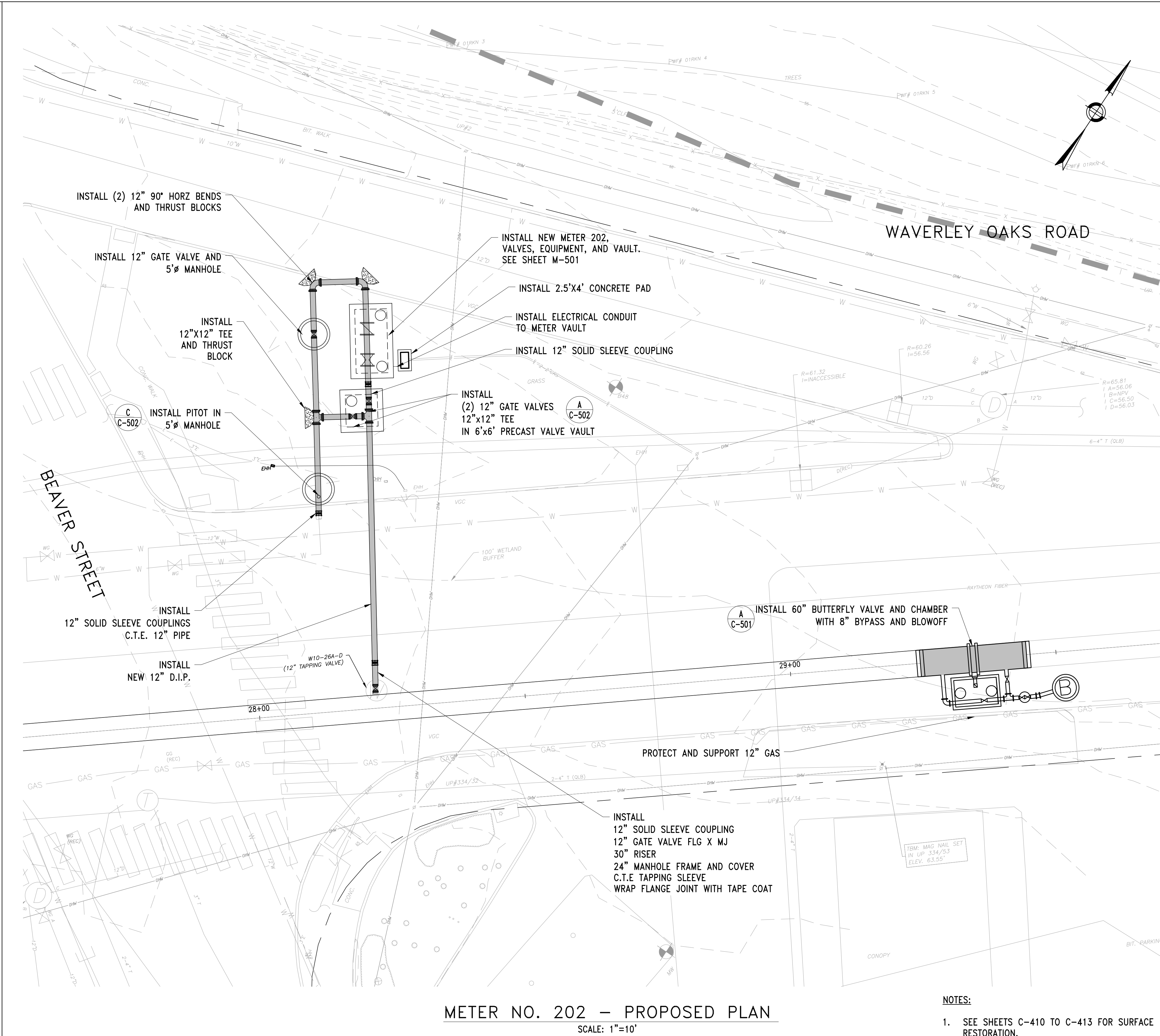
C-406

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FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-407.dwg LAYOUT NAME: C-407 PART PLAN METER NO. 202 PLOTTED: Friday, August 22, 2025 - 12:45pm USER: dmccrno



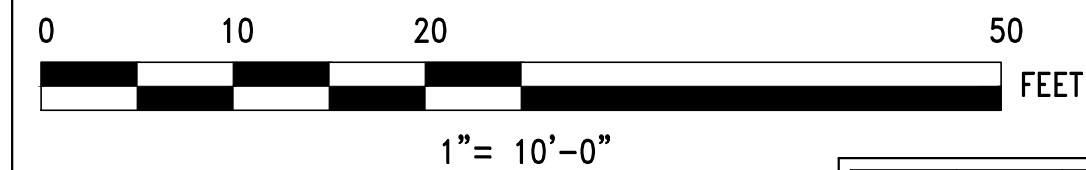
METER NO. 202 — DEMOLITION PLAN
SCALE: 1"=10'



METER NO. 202 — PROPOSED PLAN
SCALE: 1"=10'

NOTES:

1. SEE SHEETS C-410 TO C-413 FOR SURFACE RESTORATION.
2. SEE ELECTRICAL DRAWINGS FOR CONDUIT SIZING.
3. ANY SURFACE OR RECESSED PAVEMENT MARKINGS OR TRAFFIC SIGNAL DETECTOR LOOPS THAT ARE DAMAGED DURING WORK SHALL BE REPLACED IN KIND.



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-407
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS SHOWN	DRAWN BY:	TJC
		CHECKED BY:	NRB
		APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



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BURLINGTON, MA 01803
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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

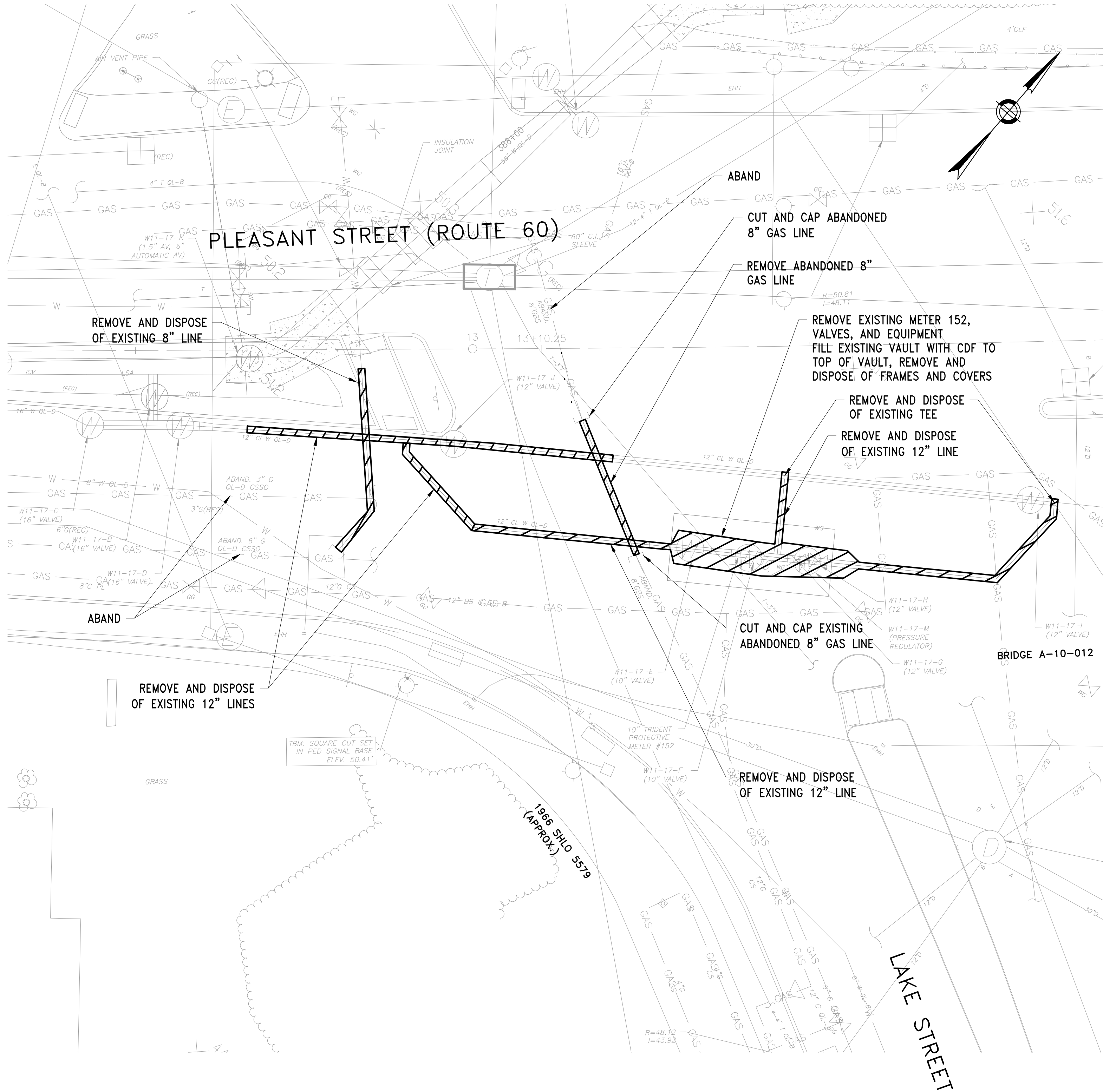
PART PLAN METER NO. 202

DRAWING NO.

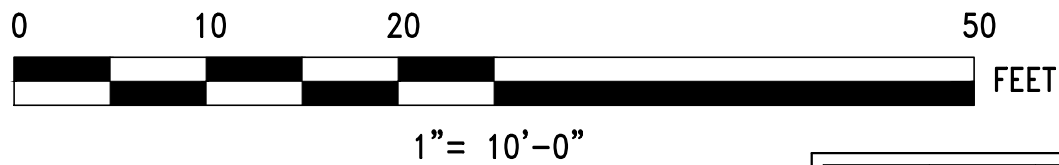
C-407

19 OF 83

FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510105\6543\CAD\2.2 Final Design\CPA\05 Civil\6543_C-408.dwg LAYOUT NAME: C-408 PART PLAN METER NO. 152 PLOTTED: Friday, August 22, 2025 - 12:49pm USER: dmccrino

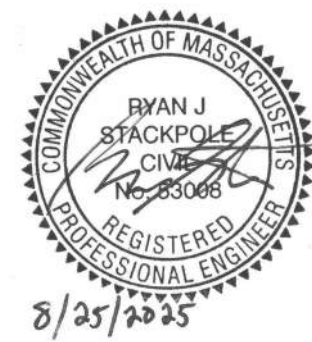


METER NO. 152 – DEMOLITION PLAN
SCALE: 1"=10'



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543	FILE NO. : 6543_C-408
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
	DRAWN BY: TJC
	CHECKED BY: NRB
SCALE: AS NOTED	APPROVED BY: RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



45 BLUE SKY DRIVE, 3RD FLOOR
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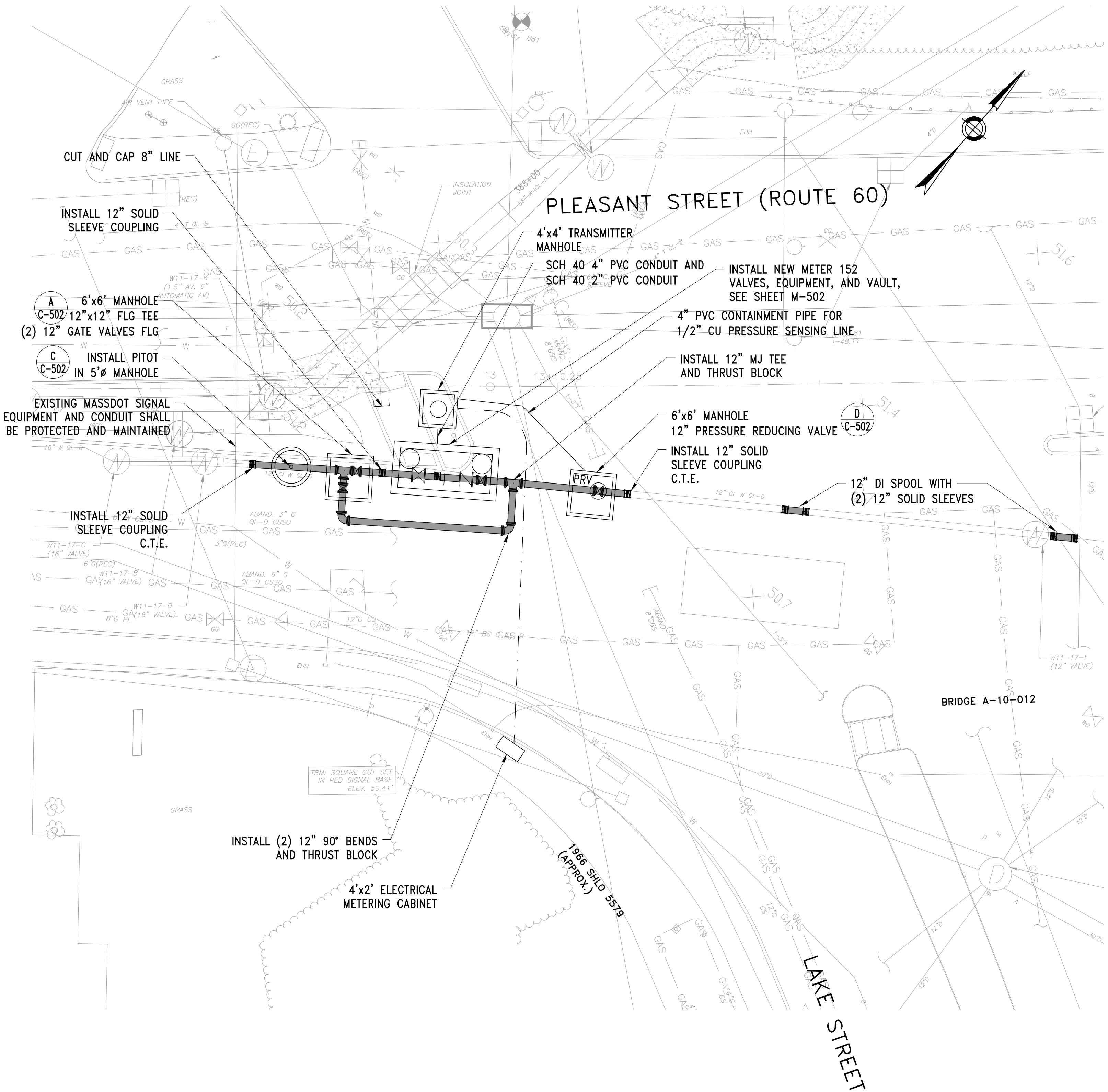
WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

PART PLAN METER NO. 152

DRAWING NO.

C-408

20 OF 83

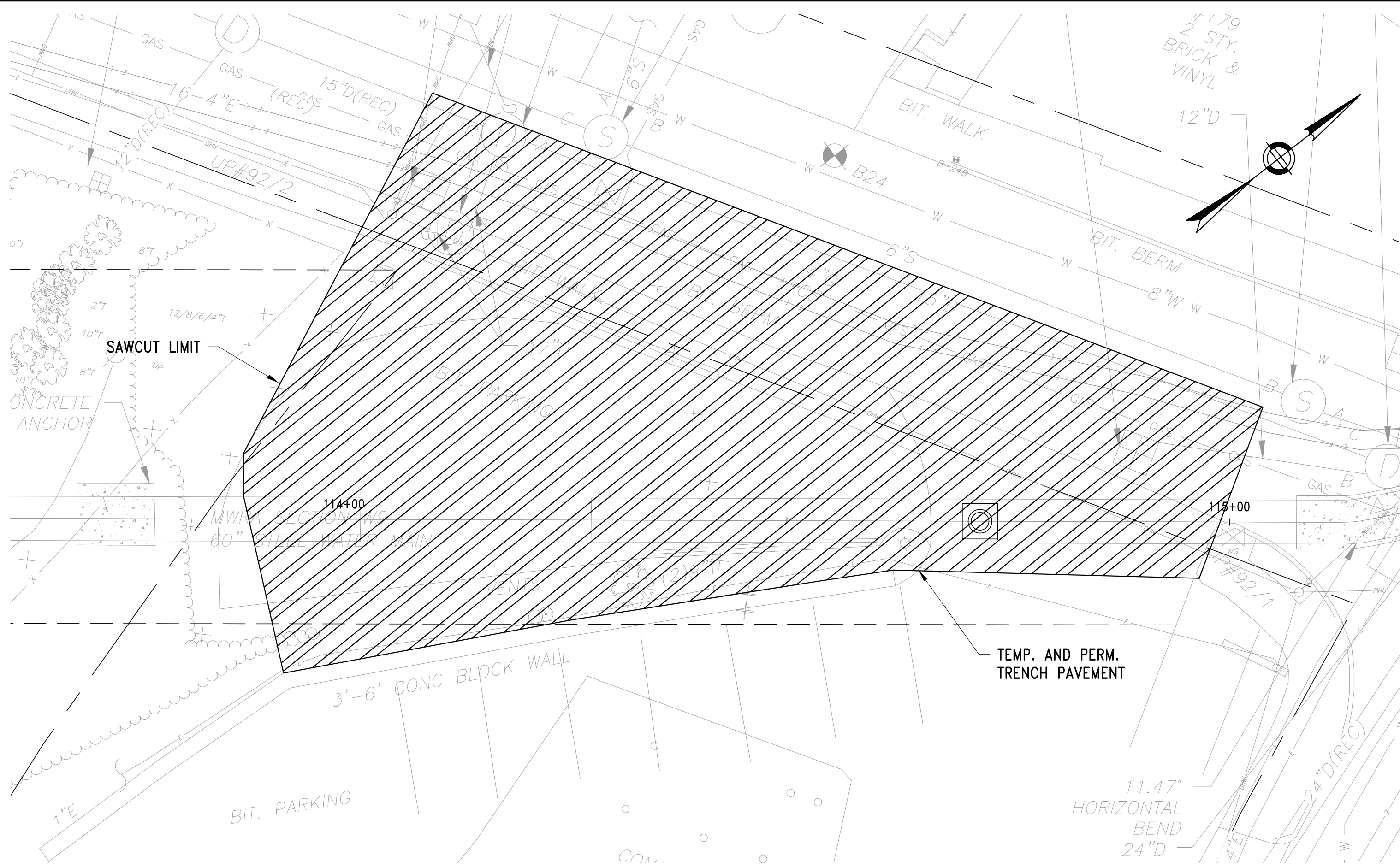


METER NO. 152 – PROPOSED PLAN
SCALE: 1"=10'

NOTES:

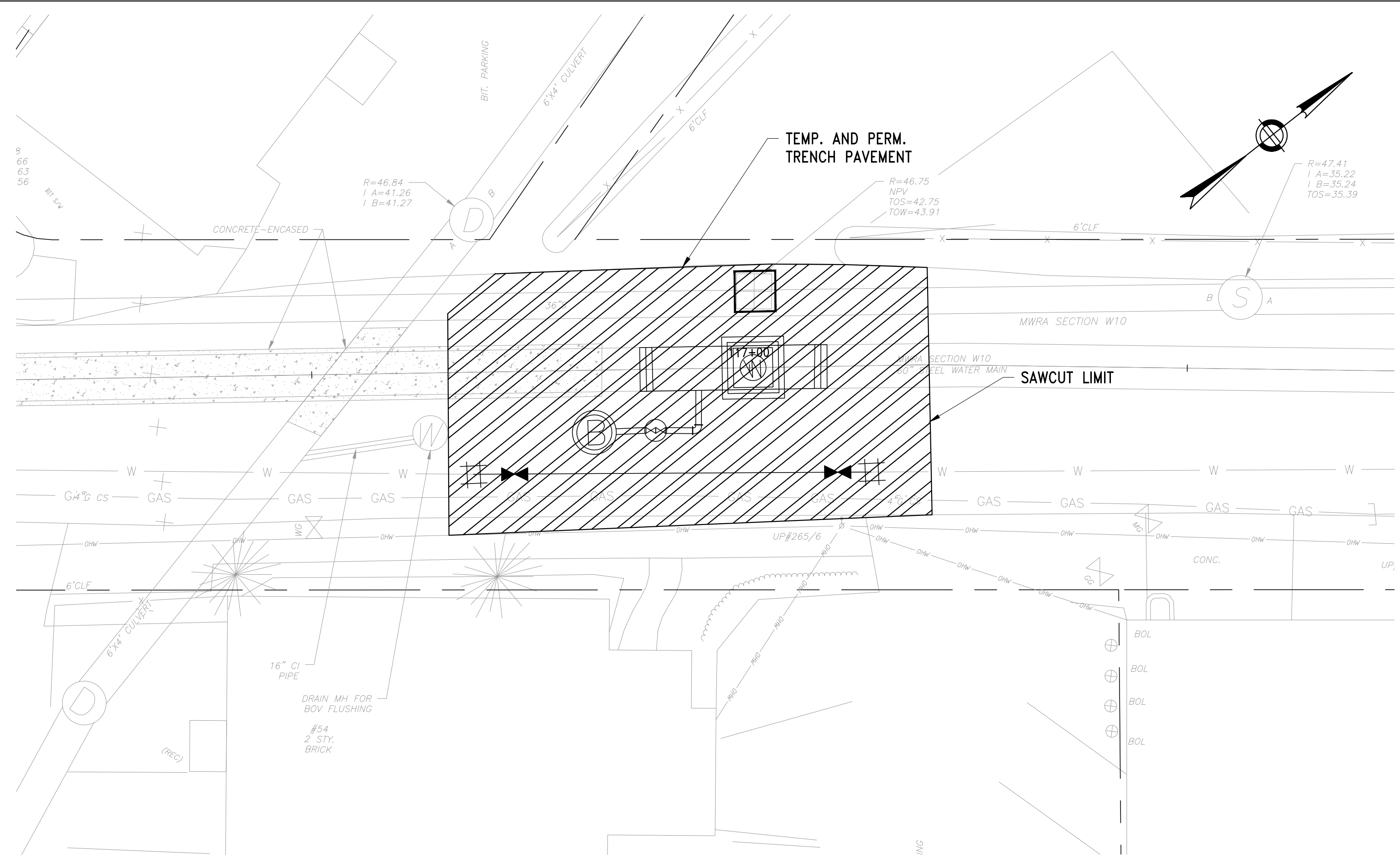
- SEE SHEETS C-410 TO C-413 FOR SURFACE RESTORATION.
- SEE ELECTRICAL DRAWINGS FOR CONDUIT SIZING.
- ANY SURFACE OR RECESSED PAVEMENT MARKINGS OR TRAFFIC SIGNAL DETECTOR LOOPS THAT ARE DAMAGED DURING WORK SHALL BE REPLACED IN KIND.

FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-410-C-413.dwg LAYOUT NAME: C-410 RESTORATION PLAN STA 113+50 TO STA 145+00 PLOTTED: Friday, August 22, 2025 - 1:01pm USER: dmarzina



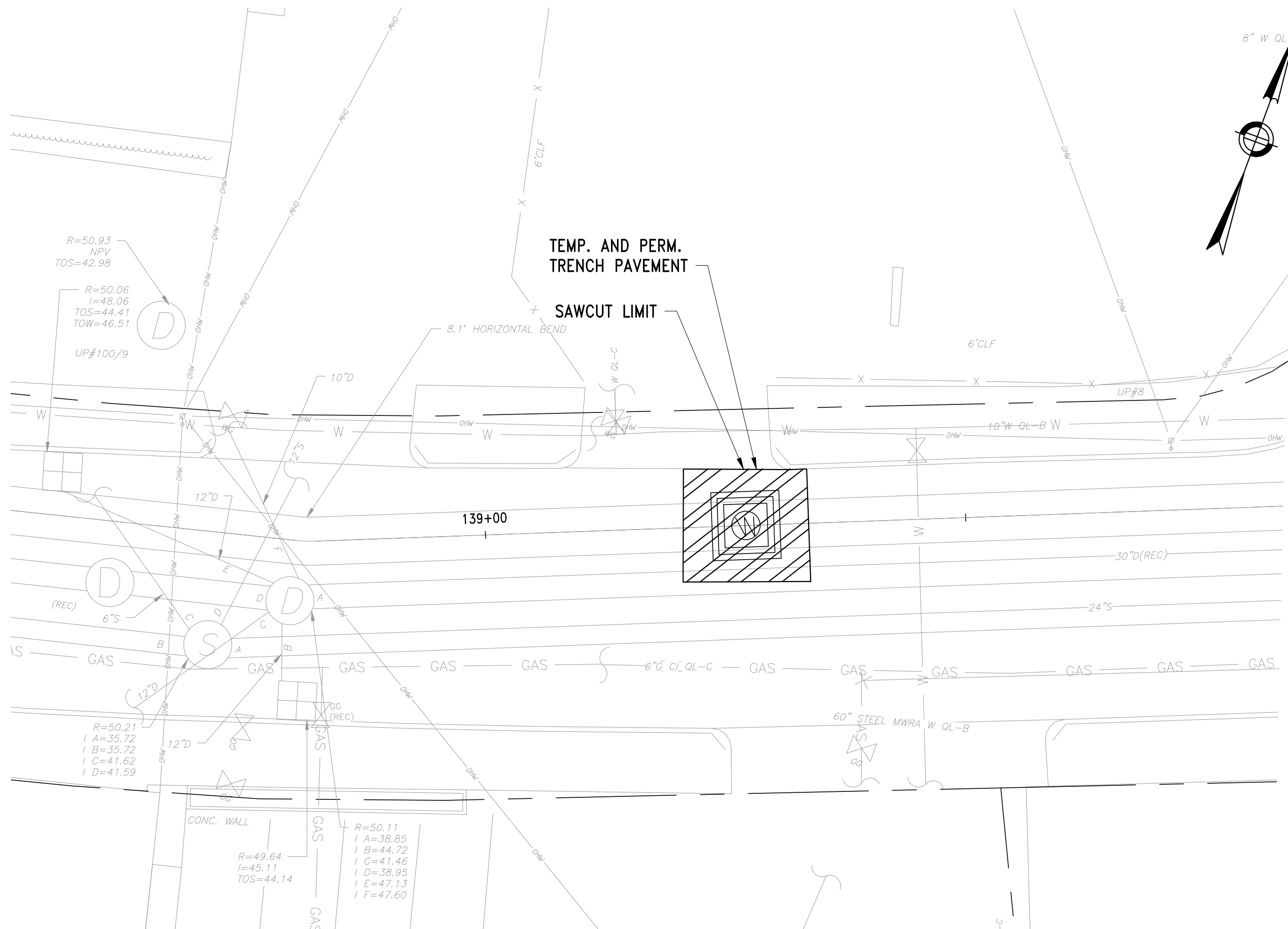
PLAN STA 113+50 TO 115+00

SCALE: 1"=10'



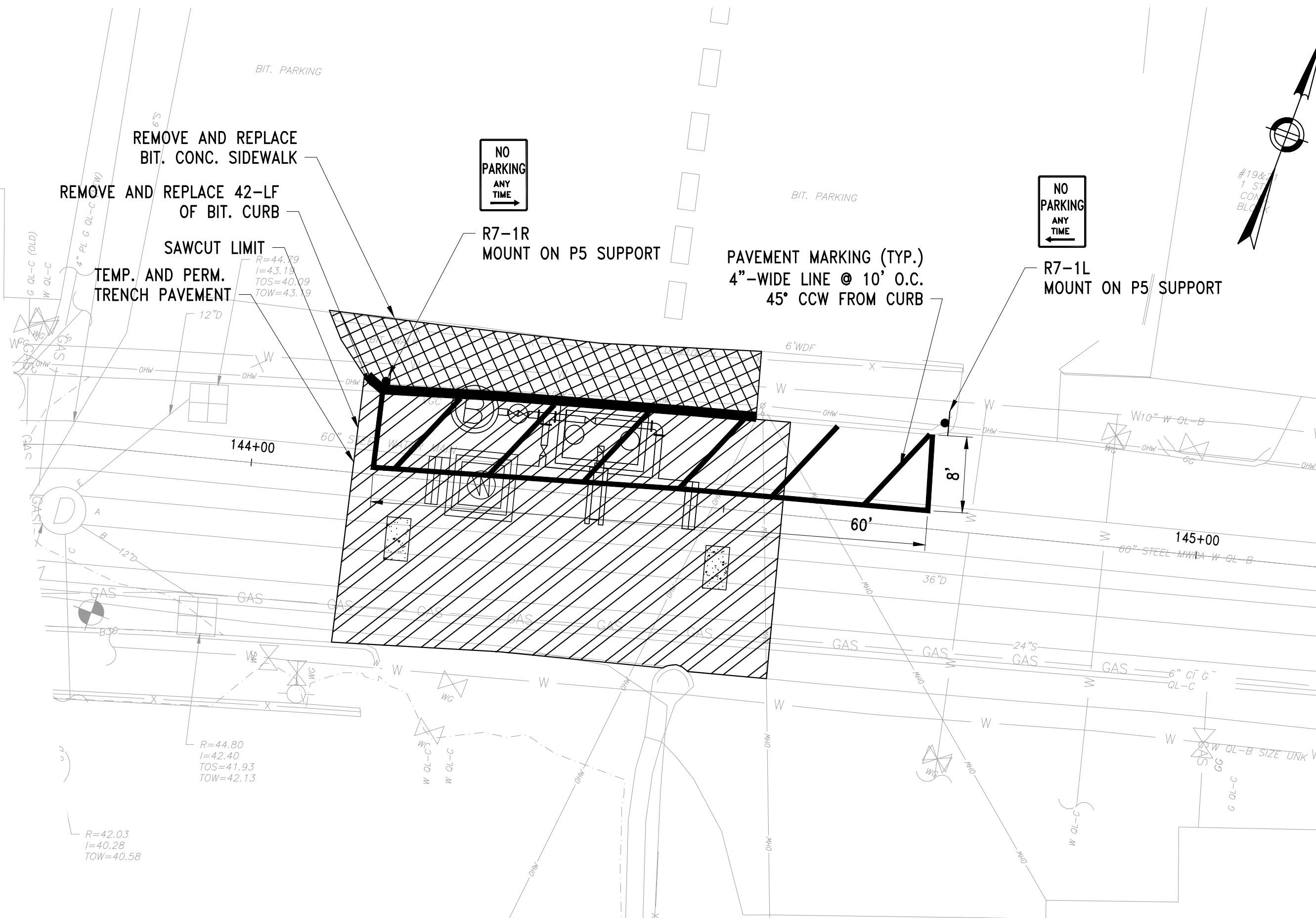
PLAN STA 116+50 TO 117+50

SCALE: 1"=10'



PLAN STA 138+50 TO 140+00

SCALE: 1"=10'

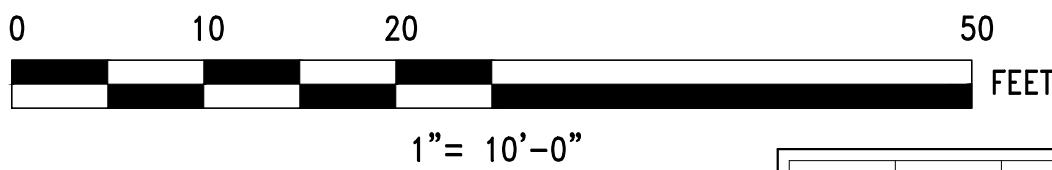


PLAN STA 143+50 to 145+00

SCALE: 1"=10'

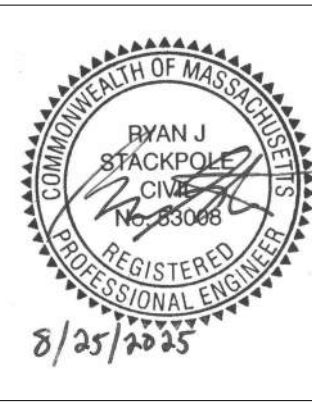
NOTES:

1. SEE SHEETS C-515 TO C-517 FOR SURFACE RESTORATION DETAILS.
2. CONTRACTOR TO LOAM AND SEED ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.
3. CONTRACTOR TO ADJUST ALL EXISTING AND PROPOSED STRUCTURES TO FINAL GRADE BEFORE FINAL SURFACE RESTORATION.
4. CONTRACTOR SHALL INSTALL SILT SACKS IN ALL CATCH BASINS TO CONTROL ENTRY OF DEBRIS. SEE DETAILS ON DRAWING C-518.
5. CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT DURING CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION SECTION 02741.
6. REFER TO SPECIFICATION SECTION 01015 FOR WORK HOUR RESTRICTIONS AND CONSTRAINTS.
7. FINISH FEATURES SHOWN ARE ANTICIPATED FUTURE CONDITIONS AT THE TIME THE PROJECT IS EXPECTED TO BE COMPLETED.
8. PAINT LINE SHALL BE RESTORED IN ACCORDANCE WITH SECTION 02742 OF THE SPECIFICATIONS.




NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-410-C-413
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS SHOWN	DRAWN BY:	TJC
		CHECKED BY:	NRB
		APPROVED BY:	RJS



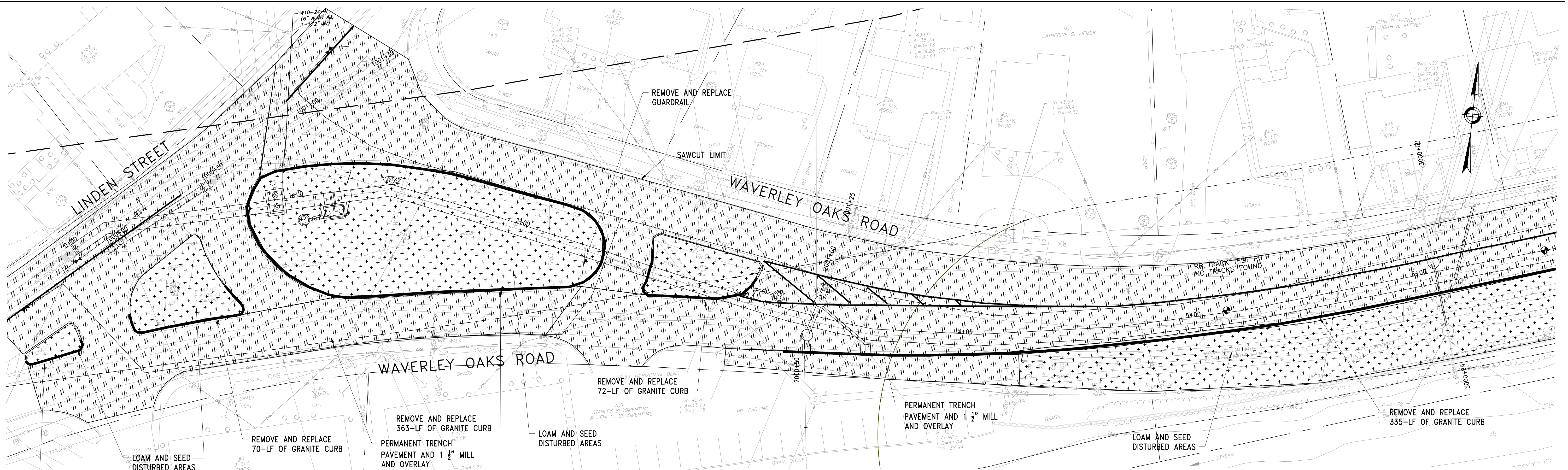
MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY:  **Stantec**

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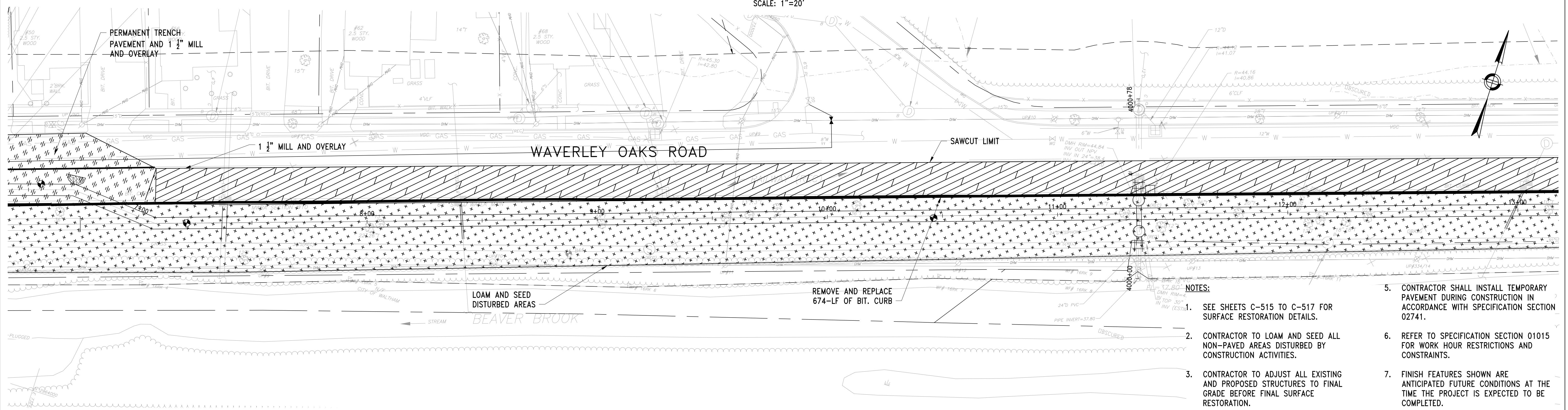
WESTON AQUEDUCT SUPPLY MAIN 3 REHABILITATION OF WATER MAINS SECTION W10	DRAWING NO. C-410
RESTORATION PLAN STA 113+50 TO STA 145+00	21 OF 83

FILE NAME: \\US0552-PFSS01\workgroup\1951\active\195150185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-410-C-413.dwg LAYOUT NAME: C-411 RESTORATION PLAN STA 0+00 TO STA 13+50 PLOTTED: Friday, August 22, 2025 - 1:05pm USER: dmcrcina



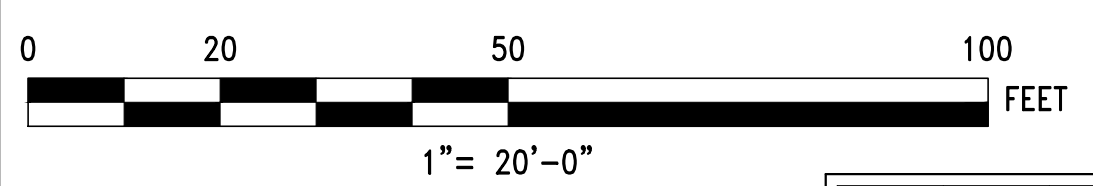
PLAN STA 0+00 TO 6+50

SCALE: 1"=20'



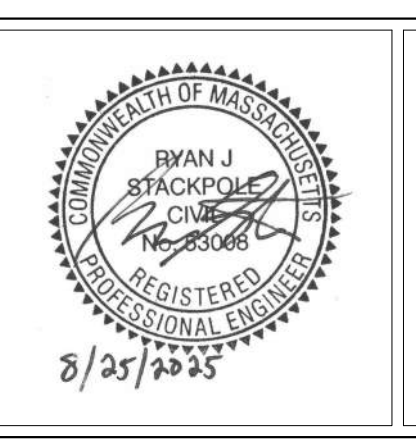
PLAN STA 6+50 TO 13+50

SCALE: 1"=20'



NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-410-C-413
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS SHOWN	DRAWN BY:	TJC
		CHECKED BY:	NRB
		APPROVED BY:	RJS





MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :

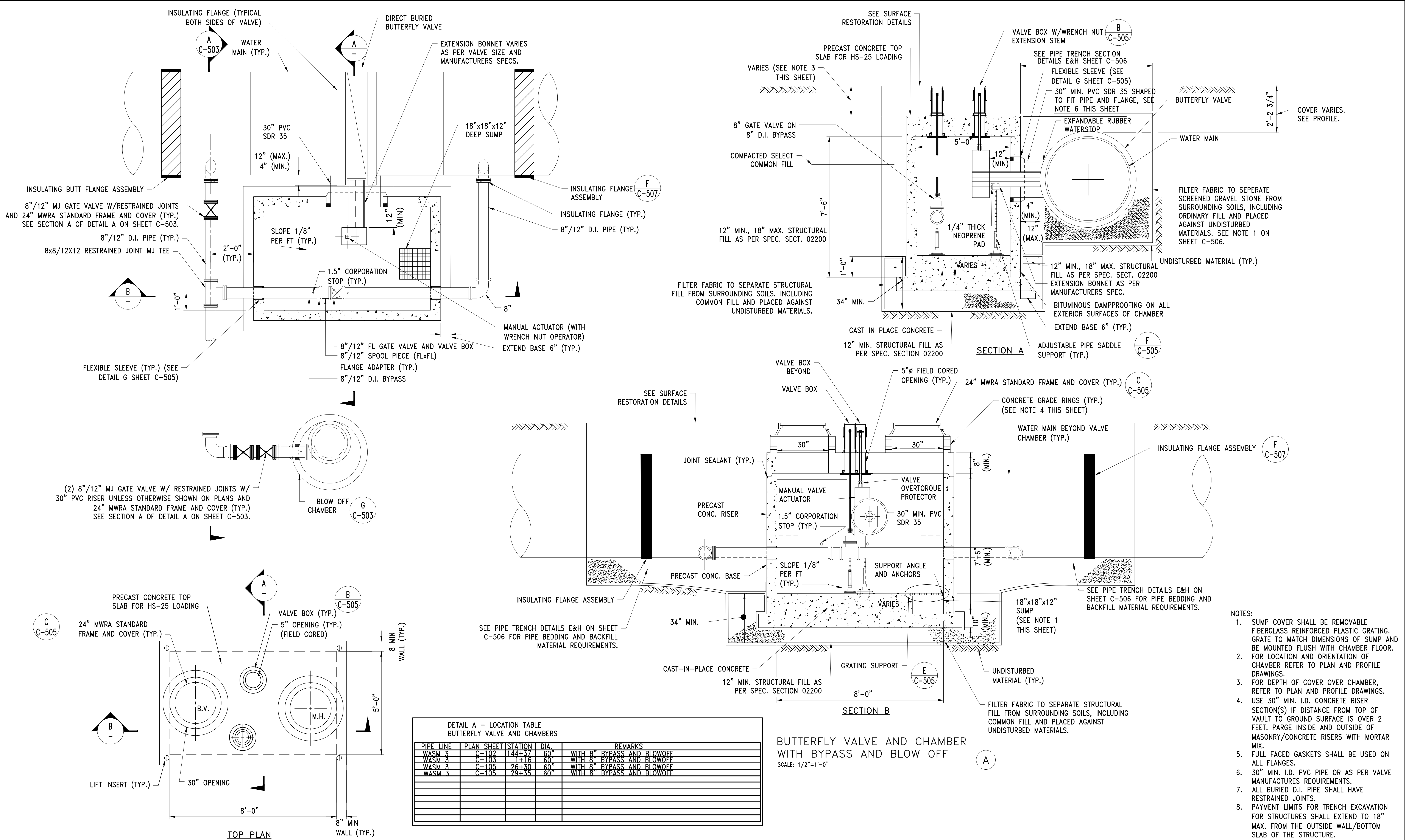


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WESTON AQUEDUCT SUPPLY MAIN 3 REHABILITATION OF WATER MAINS SECTION W10		DRAWING NO. C-411
RESTORATION PLAN STA 0+00 TO STA 13+50		22 OF 83

- NOTES:
- SEE SHEETS C-515 TO C-517 FOR SURFACE RESTORATION DETAILS.
 - CONTRACTOR TO LOAM AND SEED ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.
 - CONTRACTOR TO ADJUST ALL EXISTING AND PROPOSED STRUCTURES TO FINAL GRADE BEFORE FINAL SURFACE RESTORATION.
 - CONTRACTOR SHALL INSTALL SILT SACKS IN ALL CATCH BASINS TO CONTROL ENTRY OF DEBRIS. SEE DETAILS ON DRAWING C-518.
 - CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT DURING CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION SECTION 02741.
 - REFER TO SPECIFICATION SECTION 01015 FOR WORK HOUR RESTRICTIONS AND CONSTRAINTS.
 - FINISH FEATURES SHOWN ARE ANTICIPATED FUTURE CONDITIONS AT THE TIME THE PROJECT IS EXPECTED TO BE COMPLETED.
 - PAINT LINE SHALL BE RESTORED IN ACCORDANCE WITH SECTION 02742 OF THE SPECIFICATIONS.

FILE NAME: \\US0552-PPSS01\workgroup\1951\active\1951\05\6543\CAD\2.2 Final Design\CPA\05 Civil\6543_C-501-C-507.dwg LAYOUT NAME: C-501 BUTTERFLY VALVE AND OPERATOR CHAMBER WITH BLOW OFF DETAILS PLOTTED: Friday, August 22, 2025 - 1:15pm USER: dmccrino



CONTRACT NO. :	6543	FILE NO. :	6543_C-501-C-507
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
		DRAWN BY:	RP
		CHECKED BY:	CON
SCALE:	AS NOTED	APPROVED BY:	RJS



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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

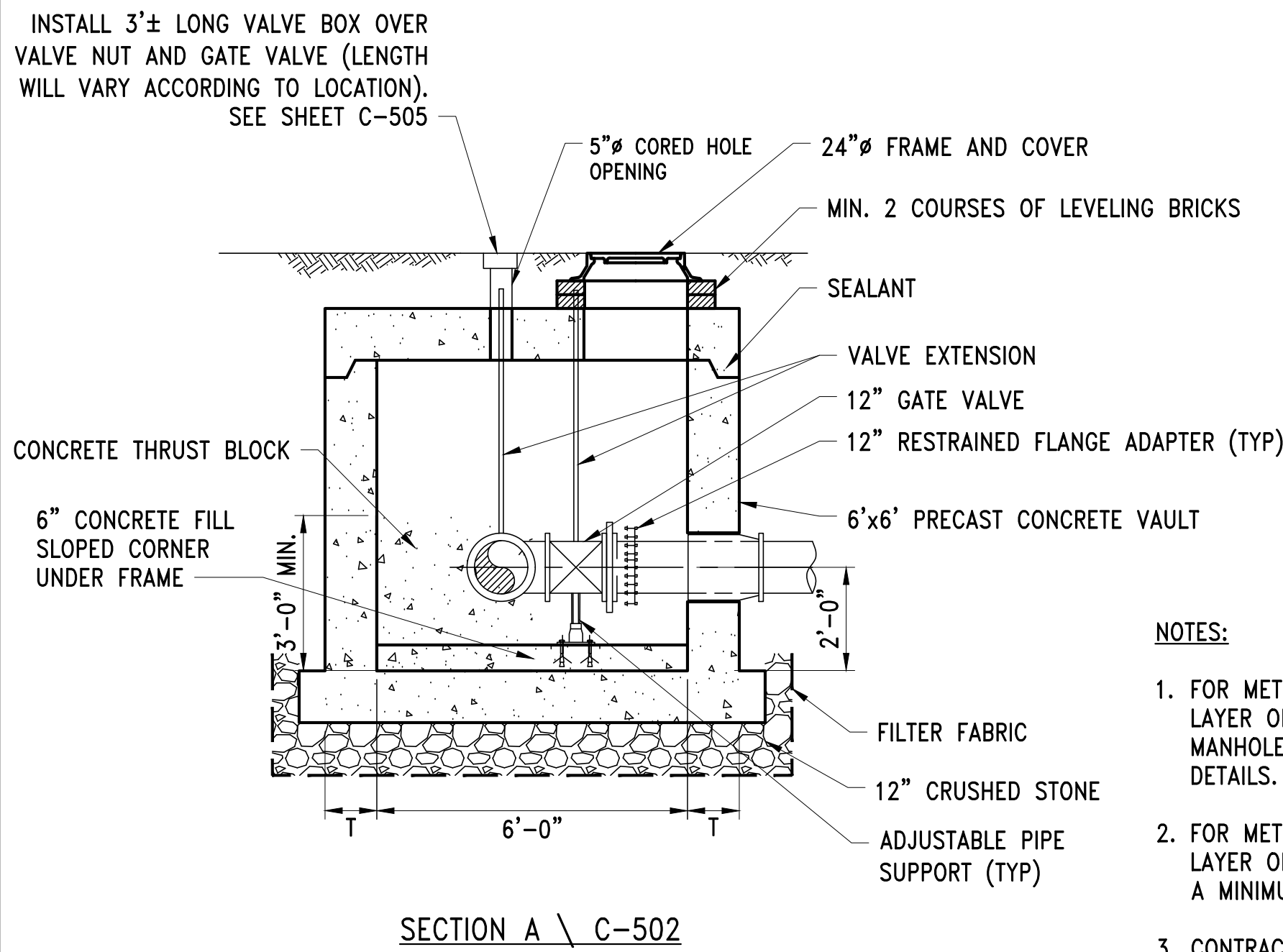
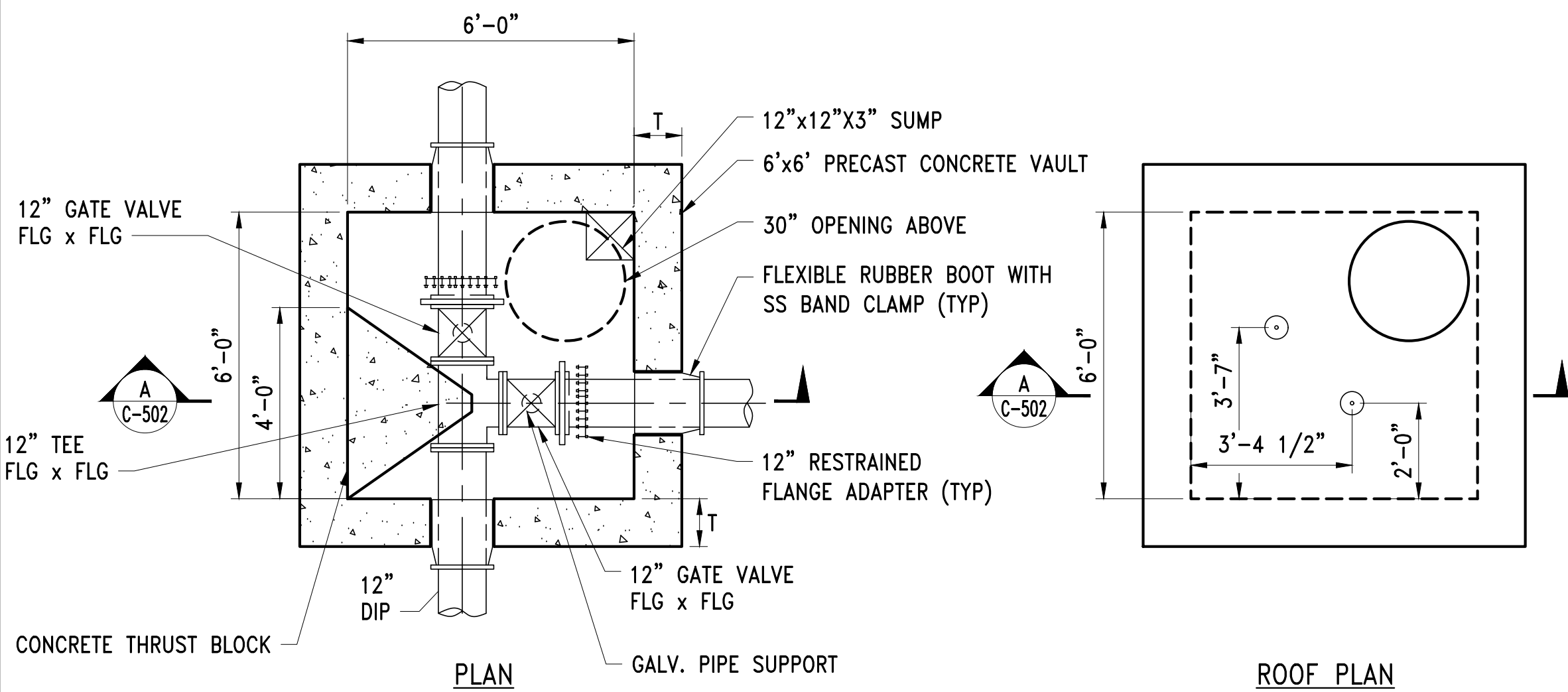
BUTTERFLY VALVE AND OPERATOR CHAMBER
WITH BLOW OFF DETAILS

DRAWING NO.

C-501

25 OF 83

FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6443_C-501-C-507.dwg LAYOUT NAME: C-502 GATE VALVE VAULT AND MISCELLANEOUS CHAMBER DETAILS PLOTTED: Friday, August 22, 2025 - 1:17pm USER: dmacrina

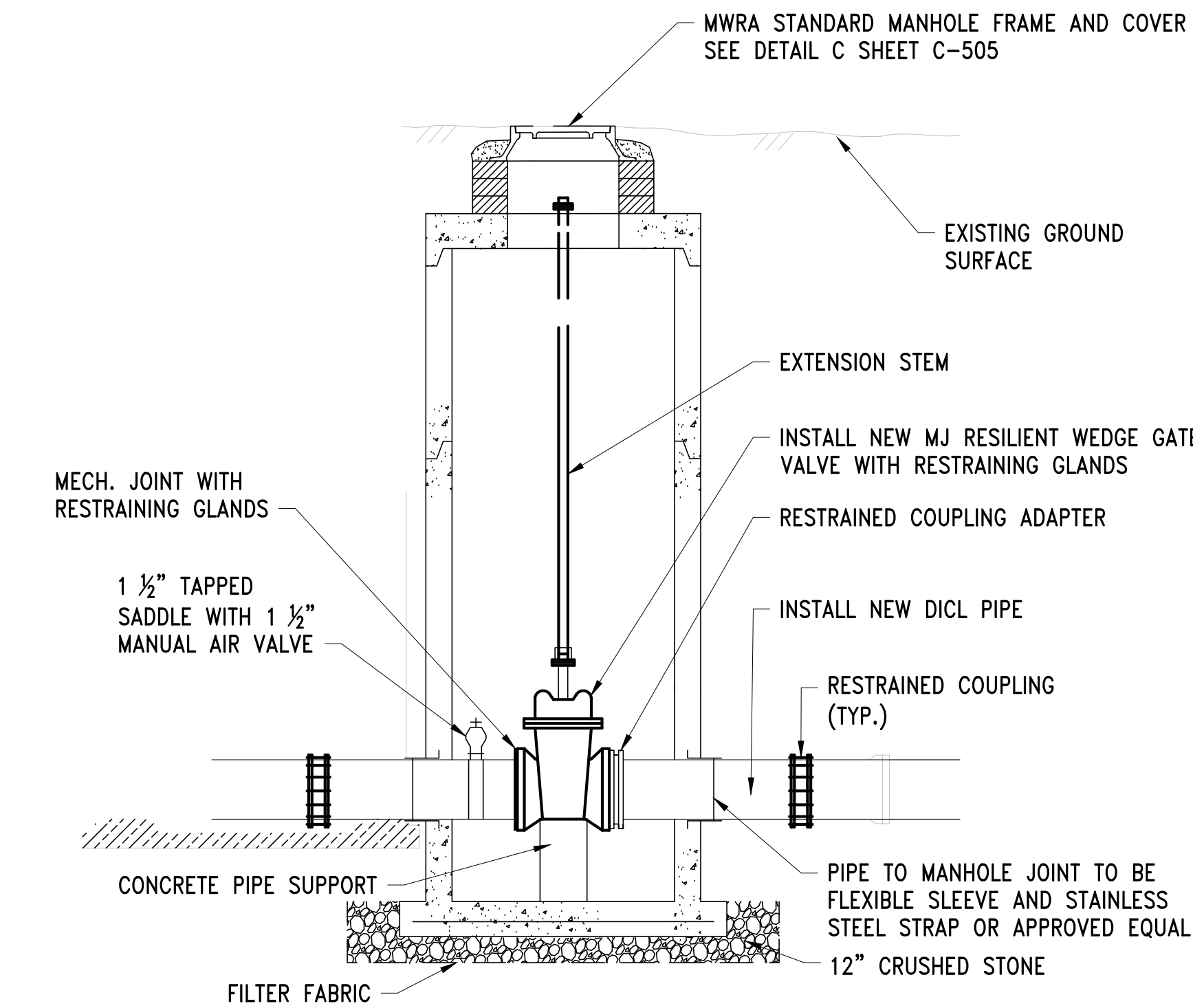


NOTES:

1. FOR METER 152 LOCATION, PROVIDE A 6-INCH LAYER OF CRUSHED GRAVEL OVER THE TOP OF MANHOLE THEN PAVEMENT PER THE PAVING DETAILS.
2. FOR METER 202, PROVIDE A MINIMUM OF 6-INCH LAYER OF CRUSHED GRAVEL OVER MANHOLE, THEN A MINIMUM OF 4 INCHES OF LOAM.
3. CONTRACTOR TO CONFIRM DIMENSIONS BASED ON THE ACTUAL VALVES AND FITTINGS USED.

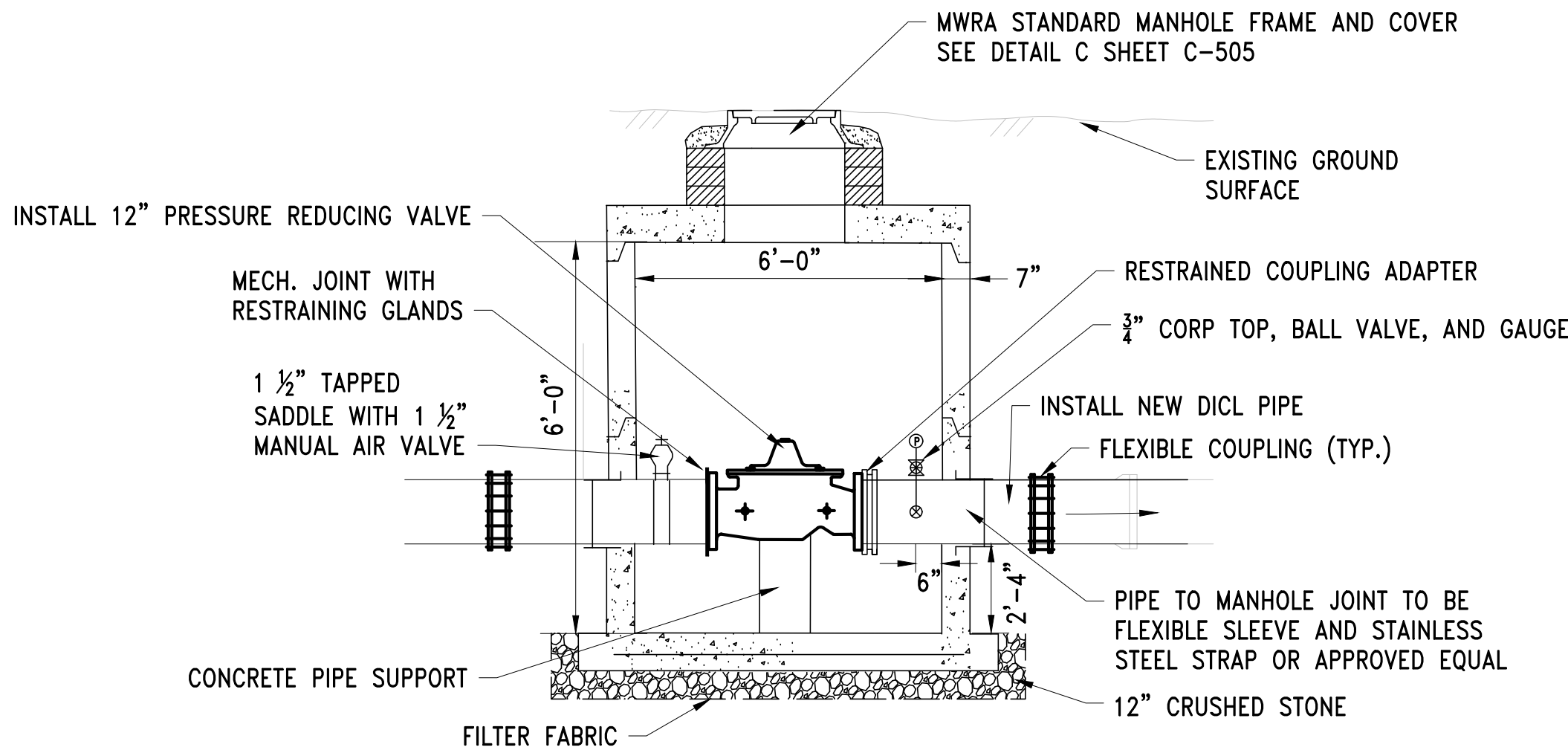
12" GATE VALVE VAULT – METERS 152 & 202

SCALE: 3/8" = 1'-0"



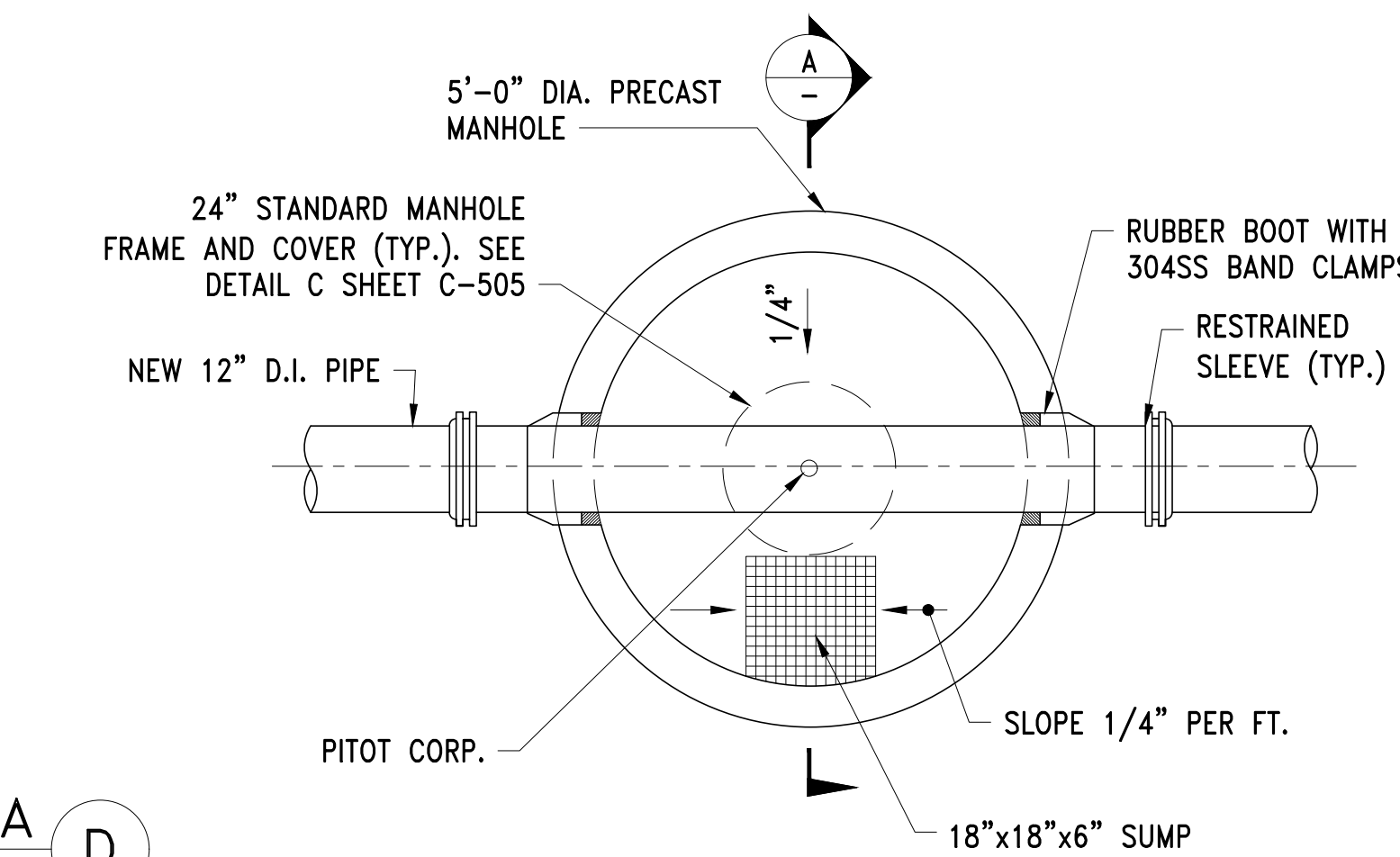
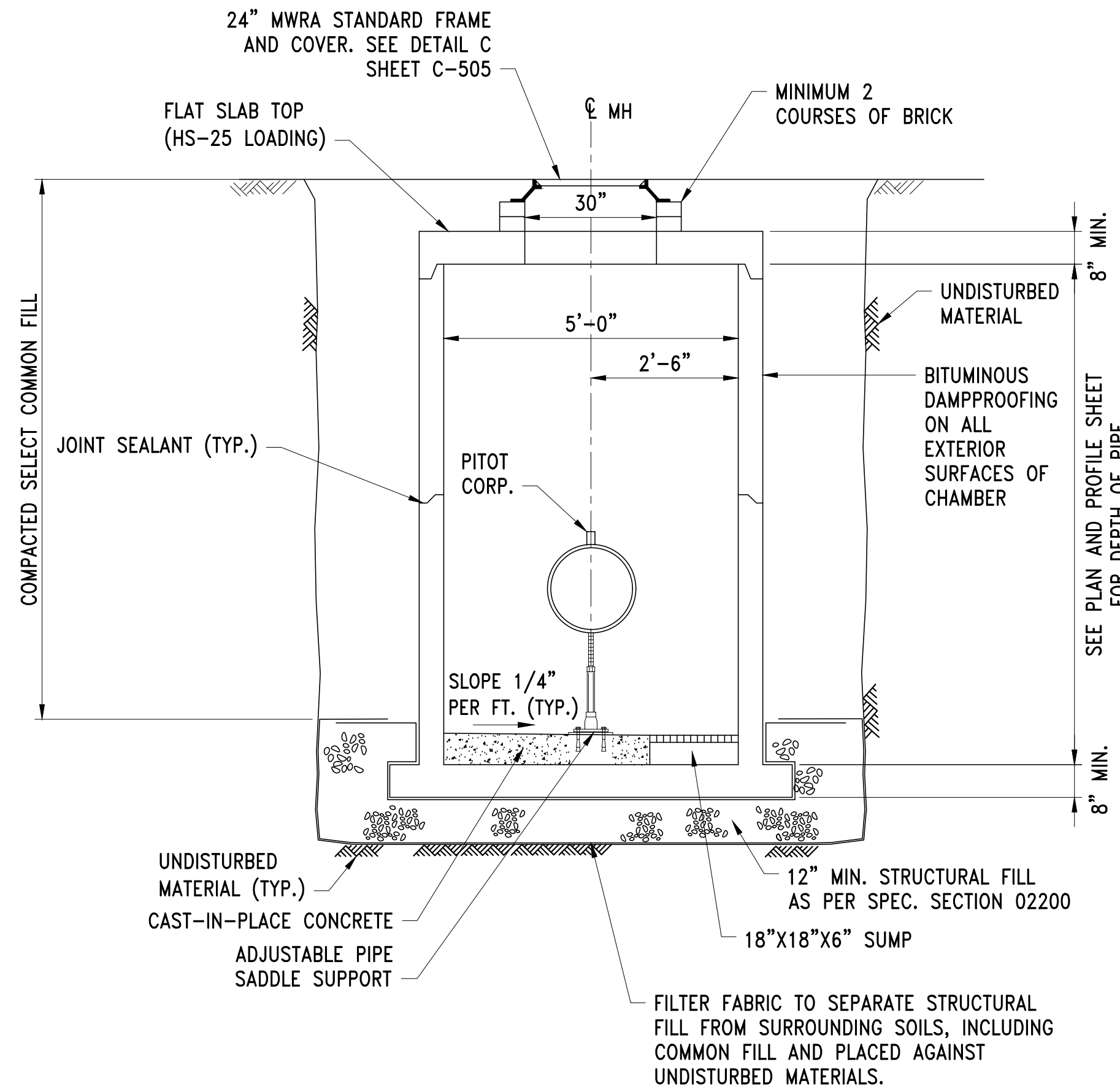
12" GATE VALVE INSTALLATION DETAIL FOR MWRA

SCALE: NTS



12" PRESSURE REDUCING VALVE INSTALLATION DETAIL FOR MWRA

SCALE: NTS



NOTES:

1. PROVIDE STRAIGHT, CLEAR PIPE 10 DIAMETER'S UPSTREAM AND 5 DIAMETER'S DOWNSTREAM OF PITOT CORPORATION. UNLESS SHOWN OTHERWISE ON DETAIL PLANS, PROVIDE EPOXY LINED PIPE UPSTREAM AND DOWNSTREAM OF THE PITOT CORPORATION.
2. PITOT SPECS: 1"CC INLET THREAD AND 1-1/4" IPT THREAD. MINIMUM INNER DIAMETER 1-1/32".

PITOT CORPORATION AND CHAMBER

SCALE: NTS

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543	FILE NO. : 6543_C-501-C-507
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
	DRAWN BY: RP
	CHECKED BY: CON
SCALE: AS NOTED	APPROVED BY: RJS



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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

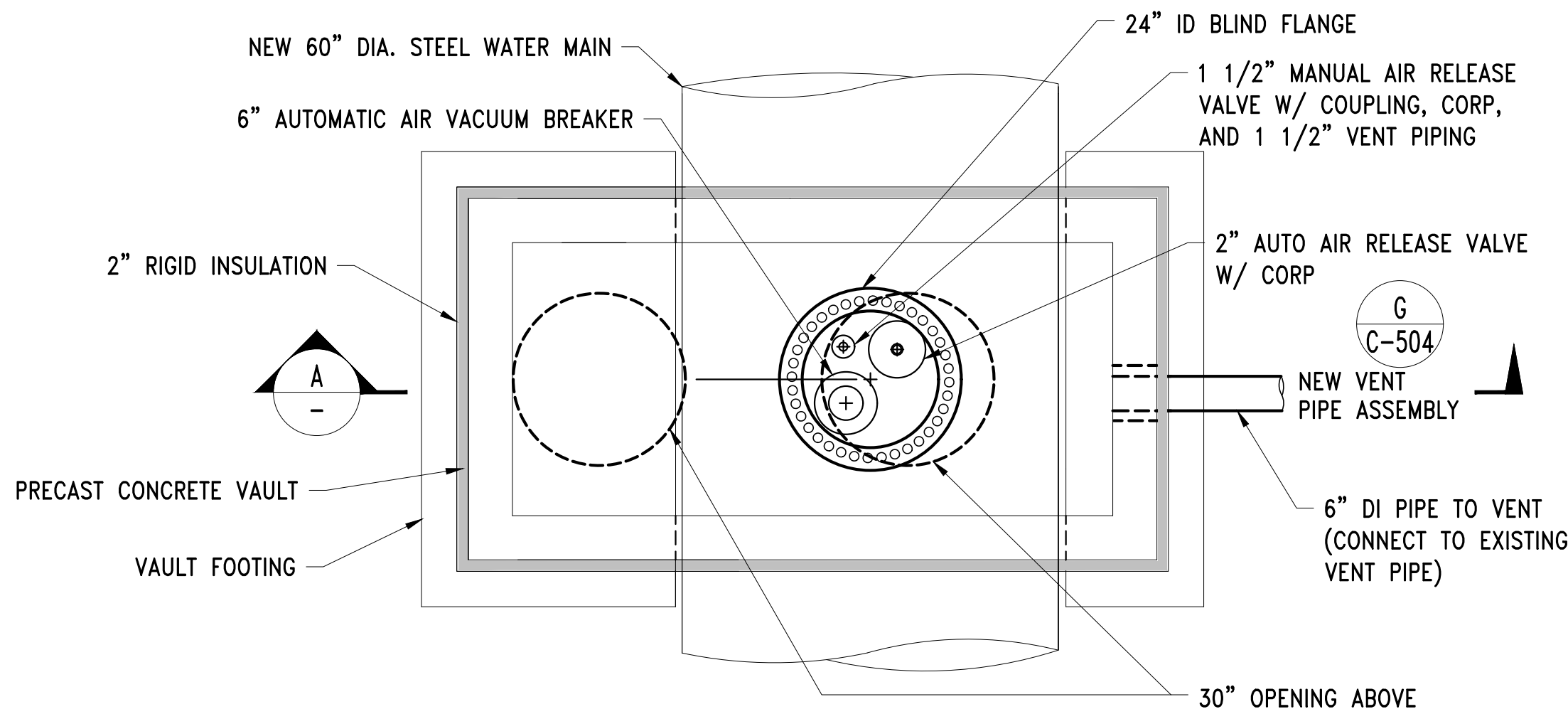
GATE VALVE VAULT AND MISCELLANEOUS
CHAMBER DETAILS

DRAWING NO.

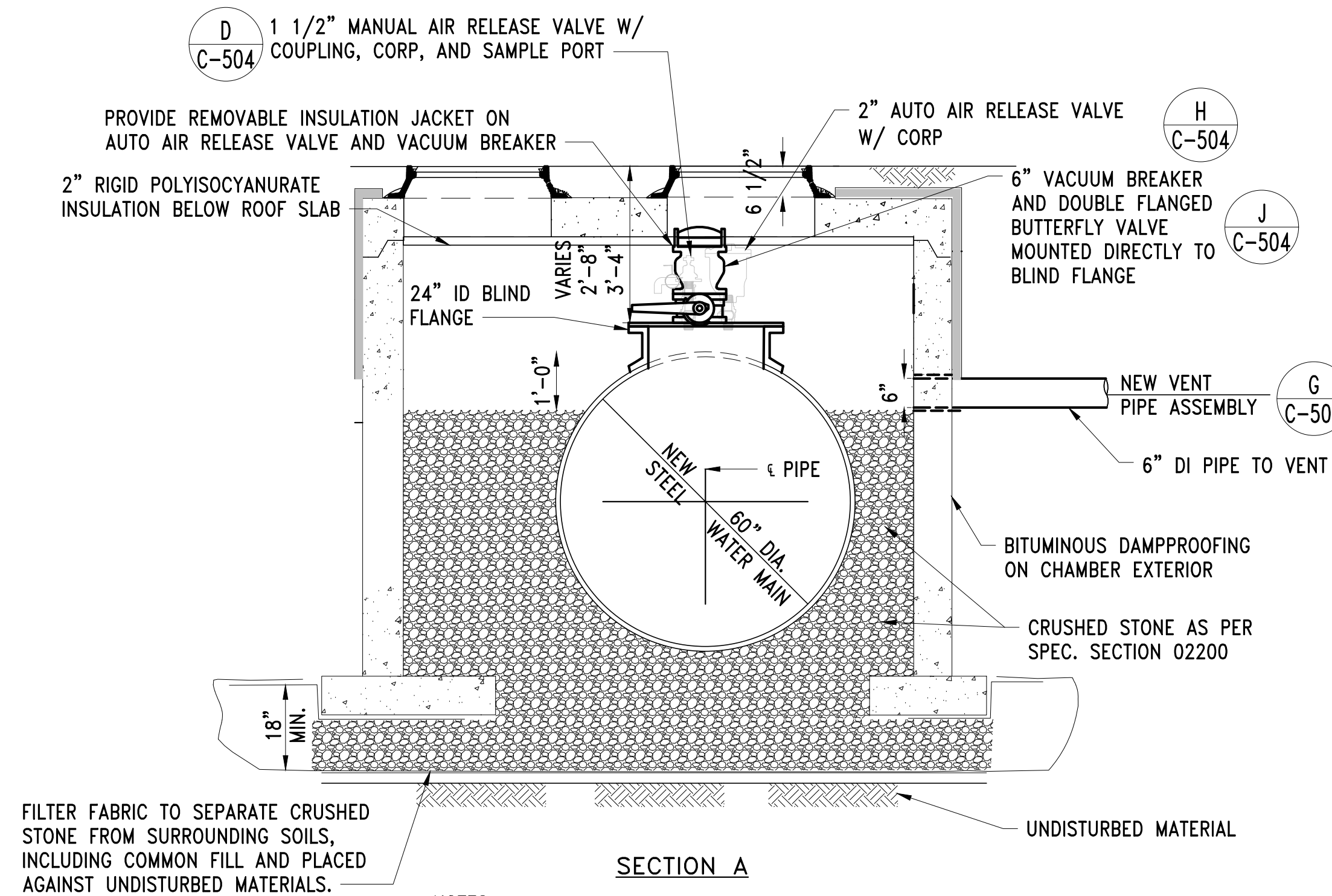
C-502

26 OF 83

FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6443_C-501-C-507.dwg LAYOUT NAME: C-504 AIR VALVE CONFIGURATION AND CHAMBER DETAILS PLOTTED: Friday, August 22, 2025 - 1:22pm USER: dmacrina



PLAN



- NOTES:
1. REFER TO DETAILS ON SHEET S-503 FOR MANHOLE DIMENSIONS AND STRUCTURAL DETAILS.

NEW AIR RELEASE MANHOLE ASSEMBLY

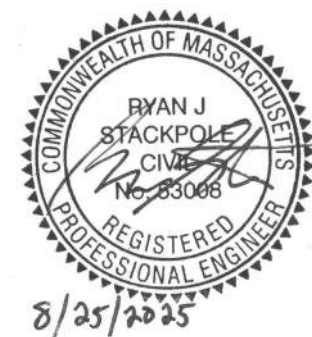
SCALE: 1/2"=1'-0"

DETAIL B - LOCATION TABLE			
NEW AIR RELEASE VALVE MANHOLE ASSEMBLY			
PIPE LINE	PLAN SHEET	STATION	DEPTH-FT
WASM 3	C-102	0+88	3.3
WASM 3	C-105	26+10	2.8

- NOTES:
1. AIR RELEASE MANHOLE ASSEMBLY VAULT AND APPURTENANCES SHALL BE INSULATED PER SECTION 02516.

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-501-C-507
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS NOTED	DRAWN BY:	RP
		CHECKED BY:	CON
		APPROVED BY:	RJS



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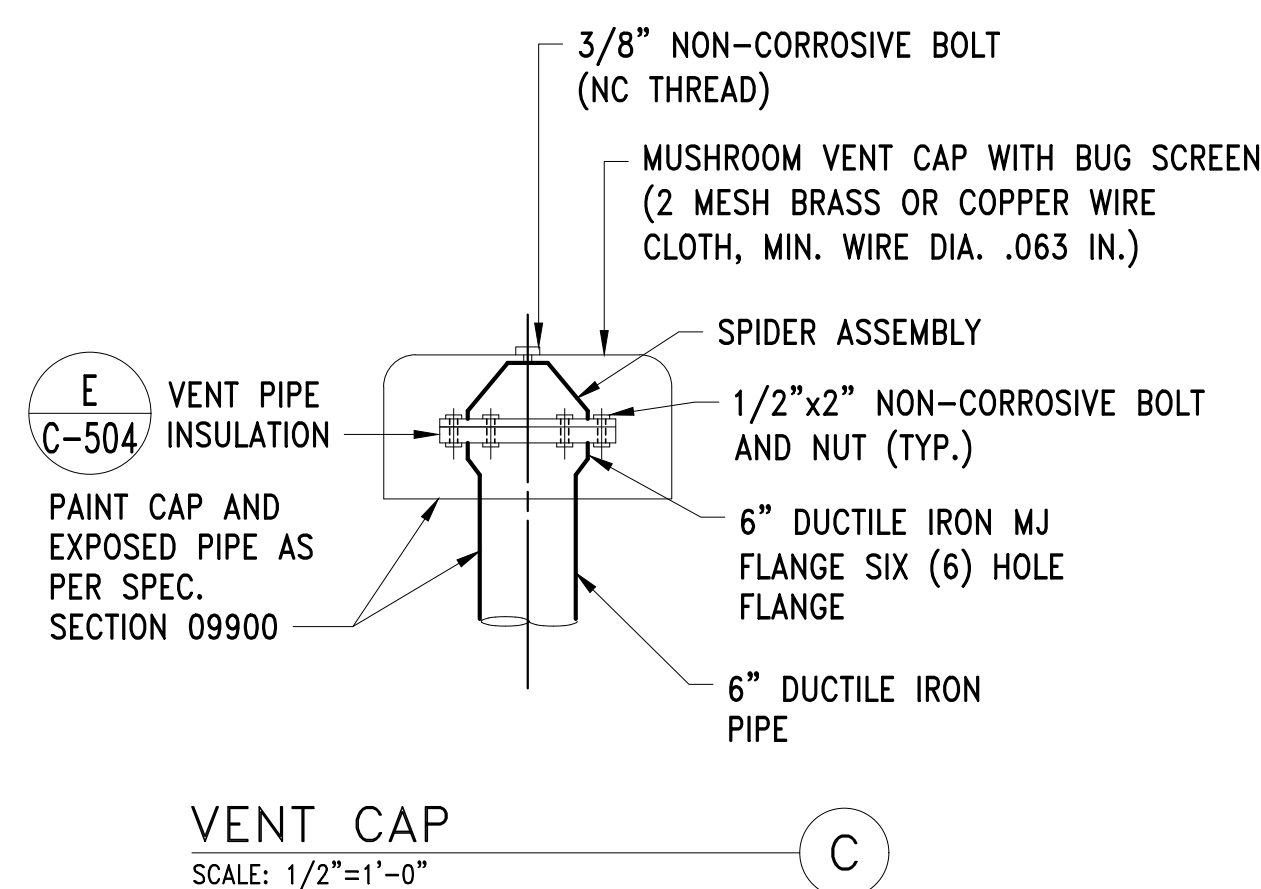
WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

AIR VALVE CONFIGURATION AND CHAMBER
DETAILS

DRAWING NO.

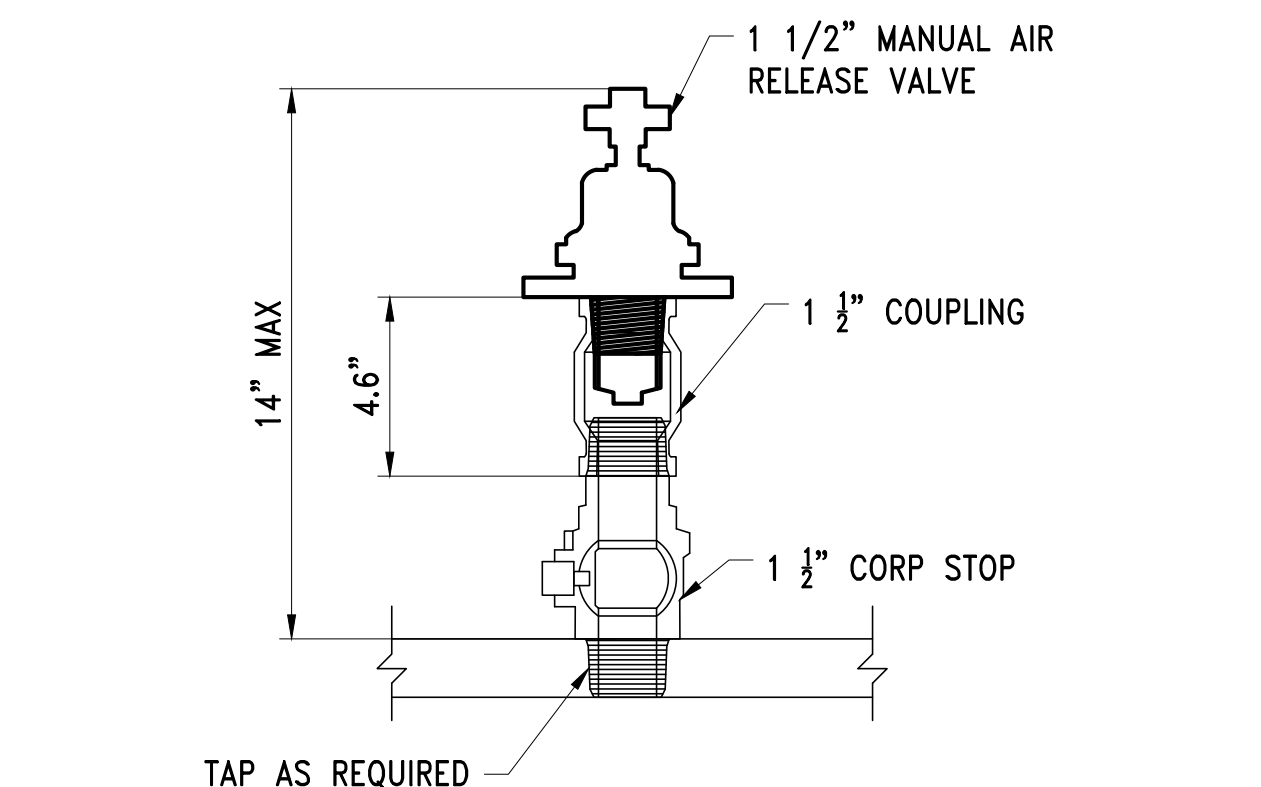
C-504

28 OF 83



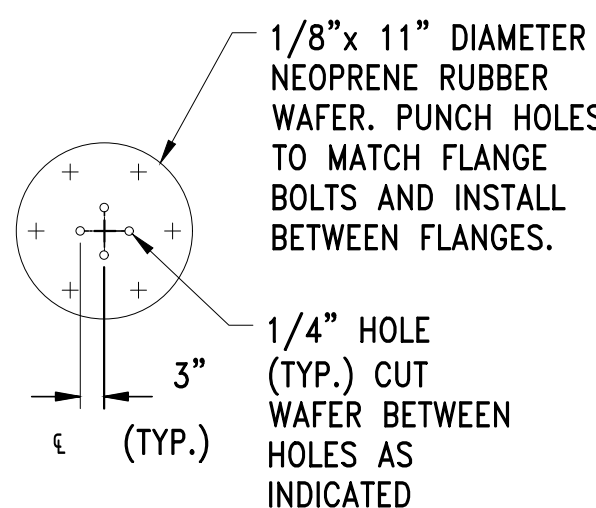
VENT CAP

SCALE: 1/2"=1'-0"



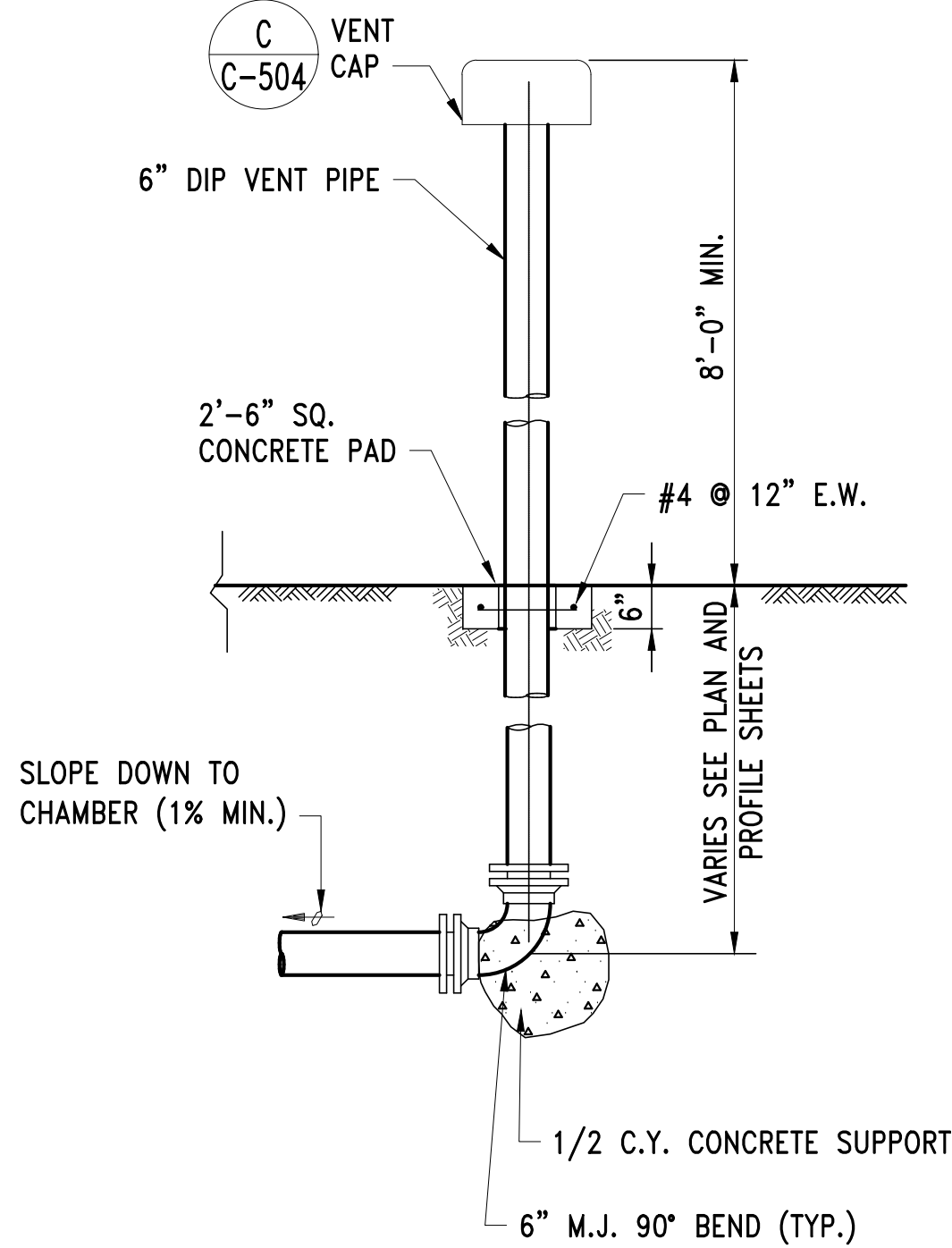
MANUAL AIR RELEASE VALVE ASSEMBLY

SCALE: NTS



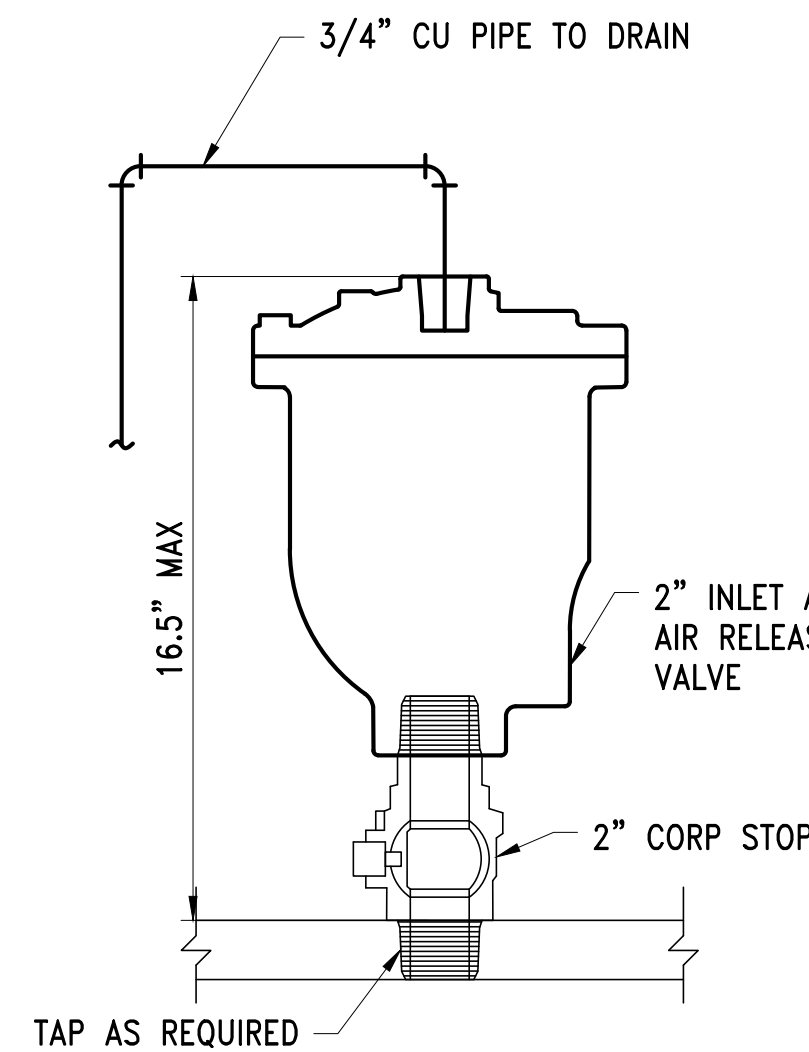
VENT PIPE INSULATION

SCALE: 1/2"=1'-0"



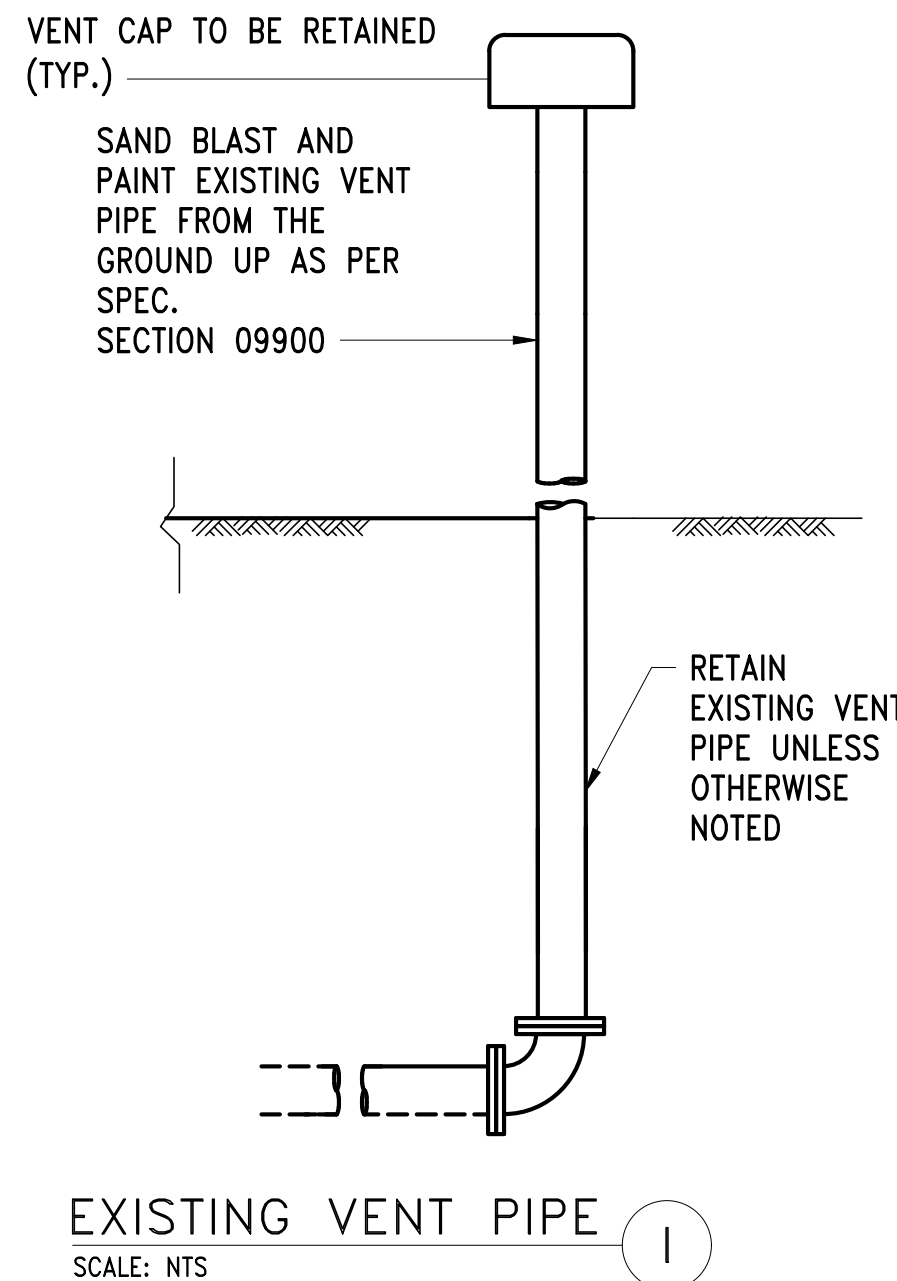
NEW VENT PIPE ASSEMBLY

SCALE: NTS



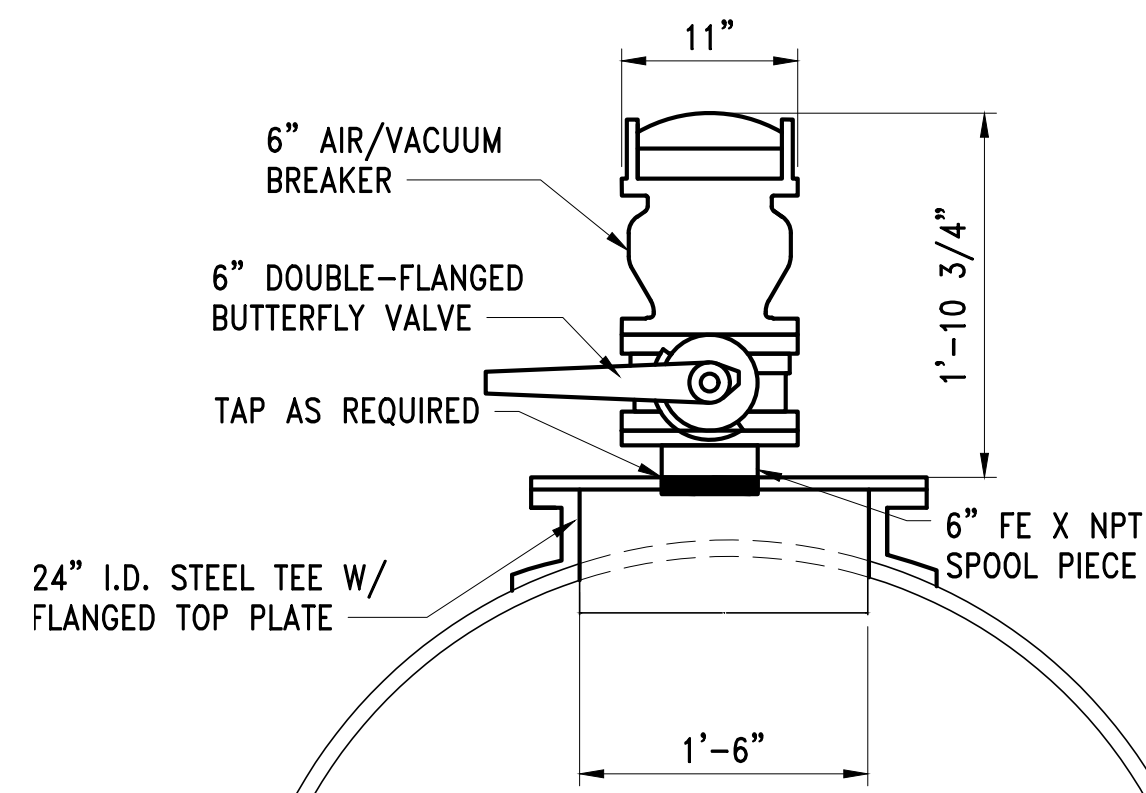
AUTOMATIC AIR RELEASE VALVE ASSEMBLY

SCALE: NTS



EXISTING VENT PIPE

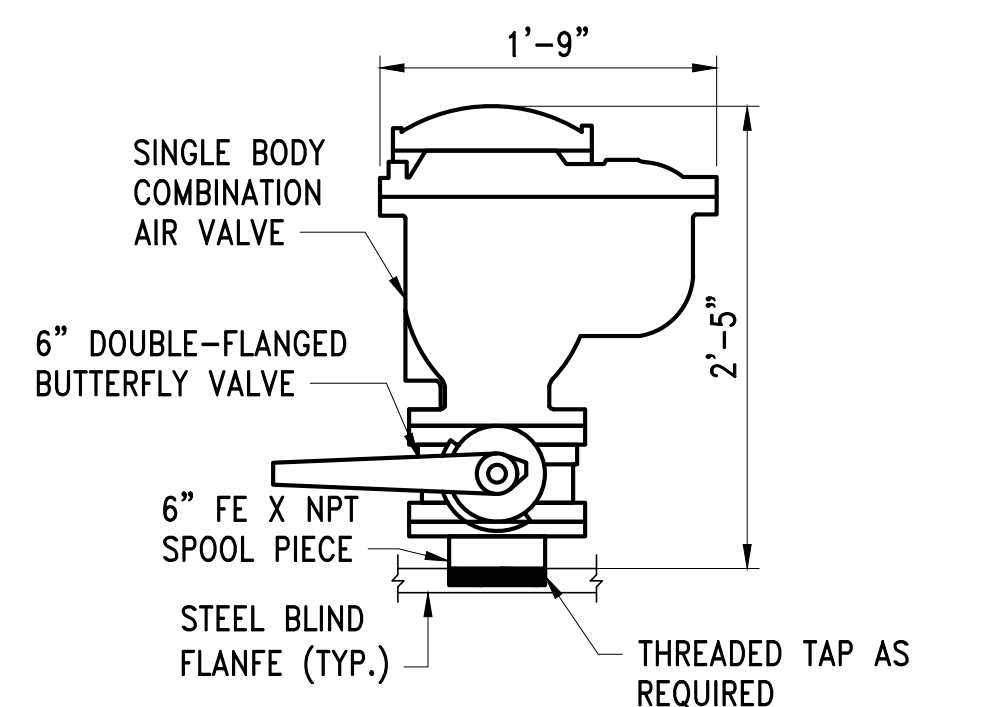
SCALE: NTS



- NOTES:
1. BODY OF VALVE TO BE EPOXY COATED.
 2. NUTS AND BOLTS TO BE STAINLESS STEEL

AUTOMATIC AIR/VACUUM BREAKER ON NEW TEE

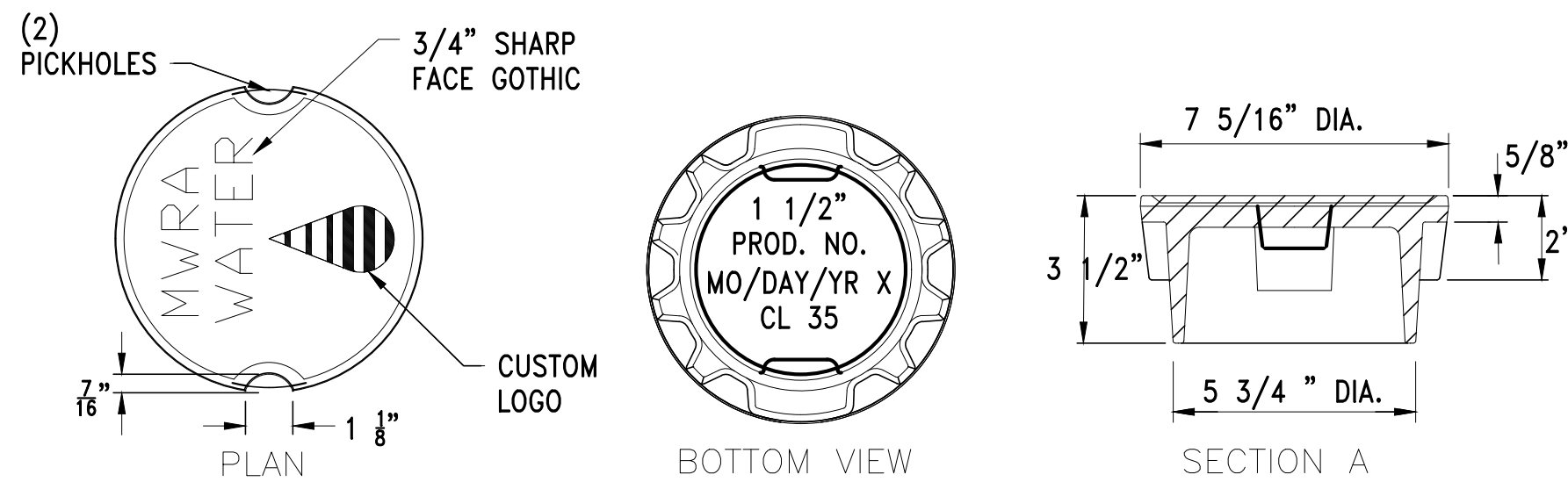
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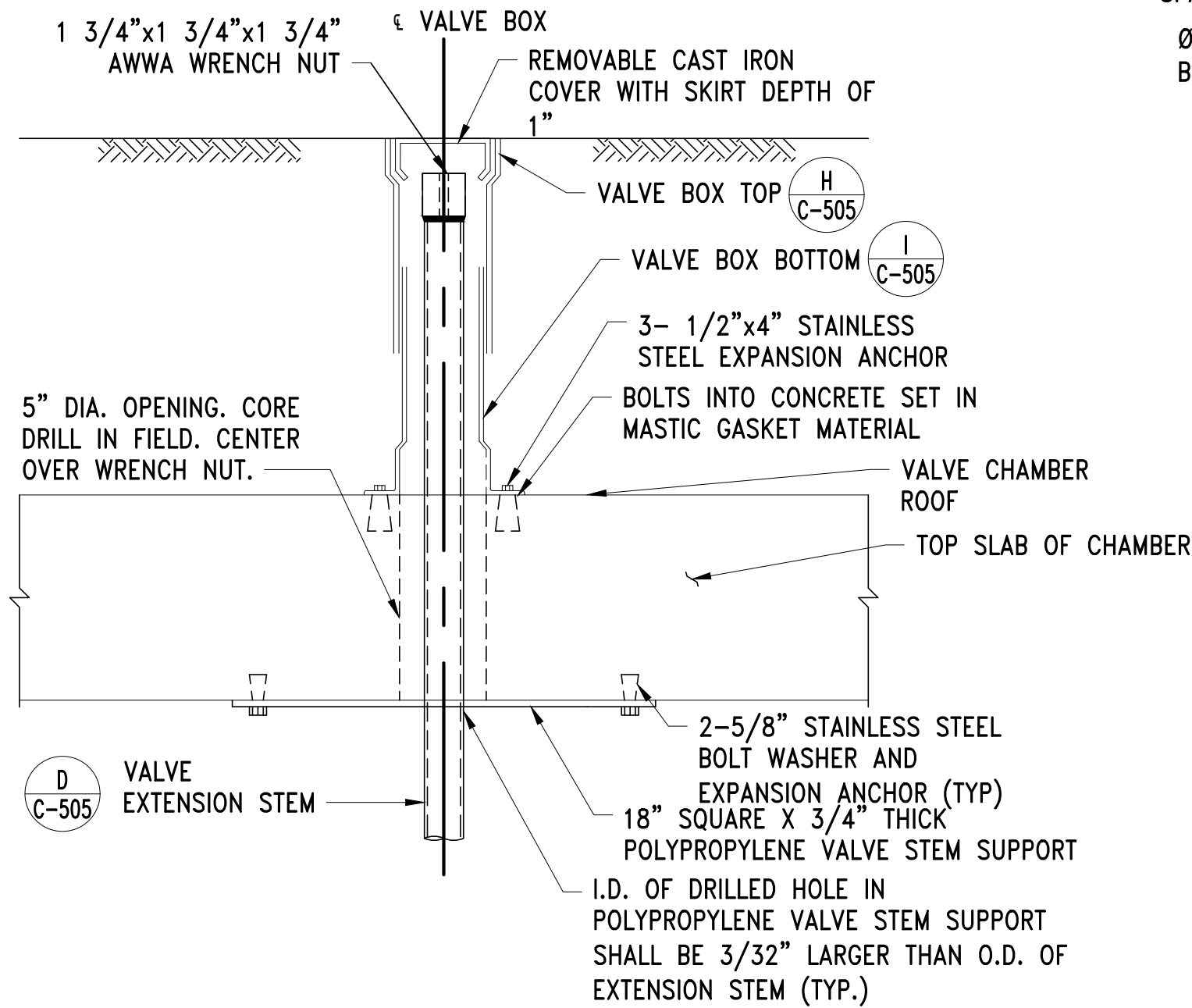
AUTOMATIC COMBINATION SINGLE BODY AIR RELEASE VALVE ASSEMBLY

SCALE: NTS

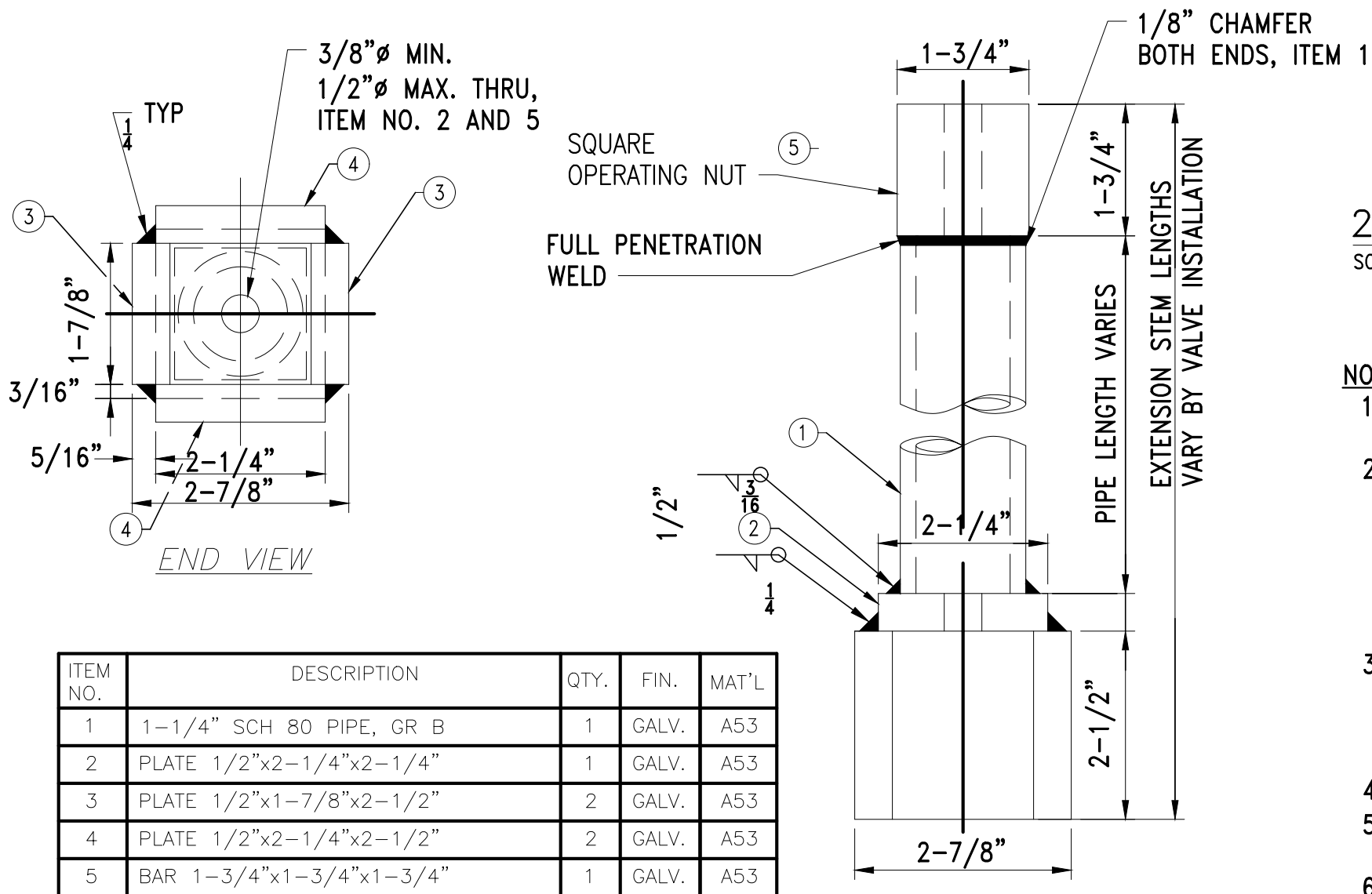
FILE NAME: \\US0552-PPSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-501-C-507.dwg LAYOUT NAME: C-505 MISCELLANEOUS VALVE AND CHAMBER DETAILS PLOTTED: Friday, August 22, 2025 - 1:23pm USER: dmccrina



VALVE BOX COVER
SCALE: NTS



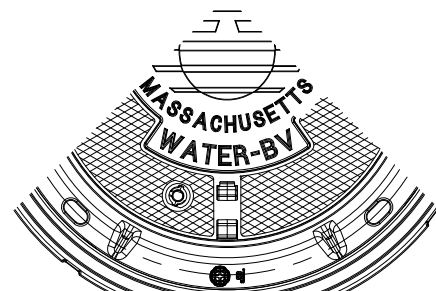
VALVE BOX COVER WITH WRENCH NUT
SCALE: NTS



EXTENSION STEM
SCALE: NTS

ITEM NO.	DESCRIPTION	QTY.	FIN.	MAT'L
1	1-1/4" SCH 80 PIPE, GR B	1	GALV.	A53
2	PLATE 1/2"x2-1/4"x2-1/4"	1	GALV.	A53
3	PLATE 1/2"x1-7/8"x2-1/2"	2	GALV.	A53
4	PLATE 1/2"x2-1/4"x2-1/2"	2	GALV.	A53
5	BAR 1-3/4"x1-3/4"x1-3/4"	1	GALV.	A53

LETTER CODE LOCATION
IF OTHER THAN GATE

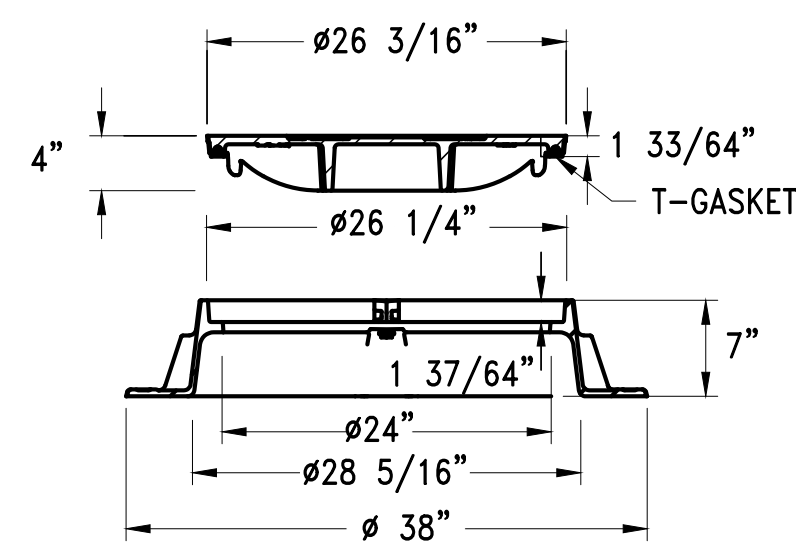
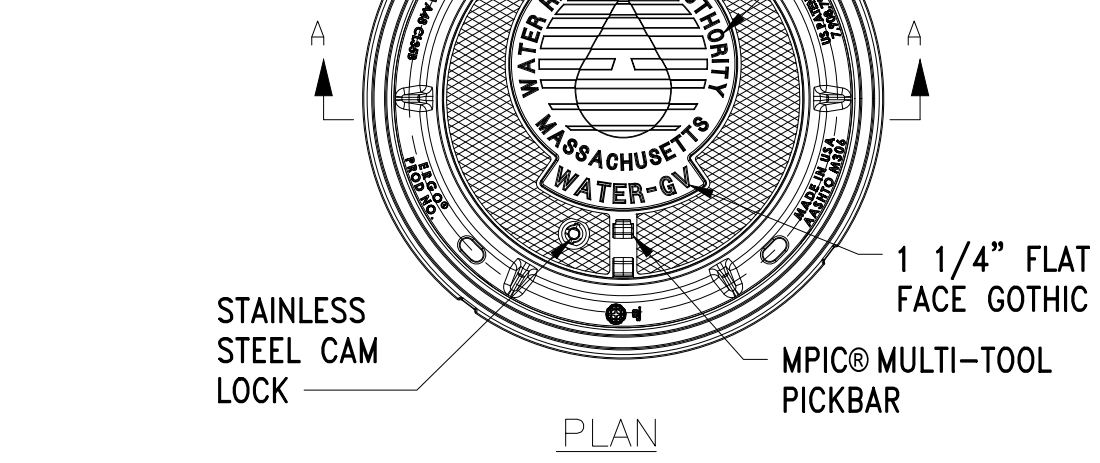


LETTER CODES
FOR COVERS

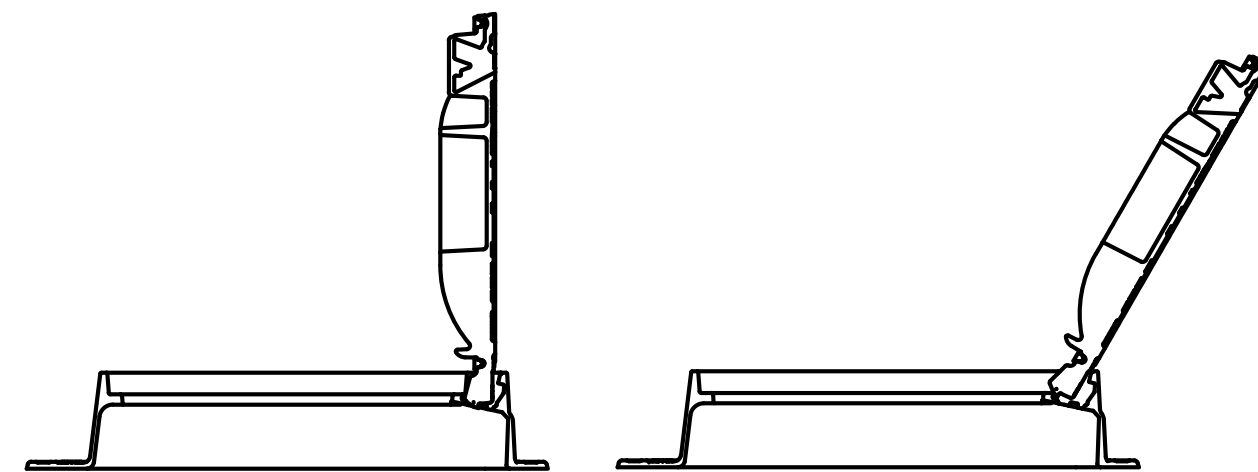
AV (AIR RELEASE VALVE)
BO (BLOW OFF VALVE)
BP (BY-PASS ACCESS)
BV (BUTTERFLY VALVE)
GV (GATE VALVE)

MH (MANHOLE)
CP (CORROSION PROTECTION)
METER (WATER METER)
WATER (WATER MAIN)

(4) 1"W X 2"L BOLT
SLOTS EQUALLY
SPACED



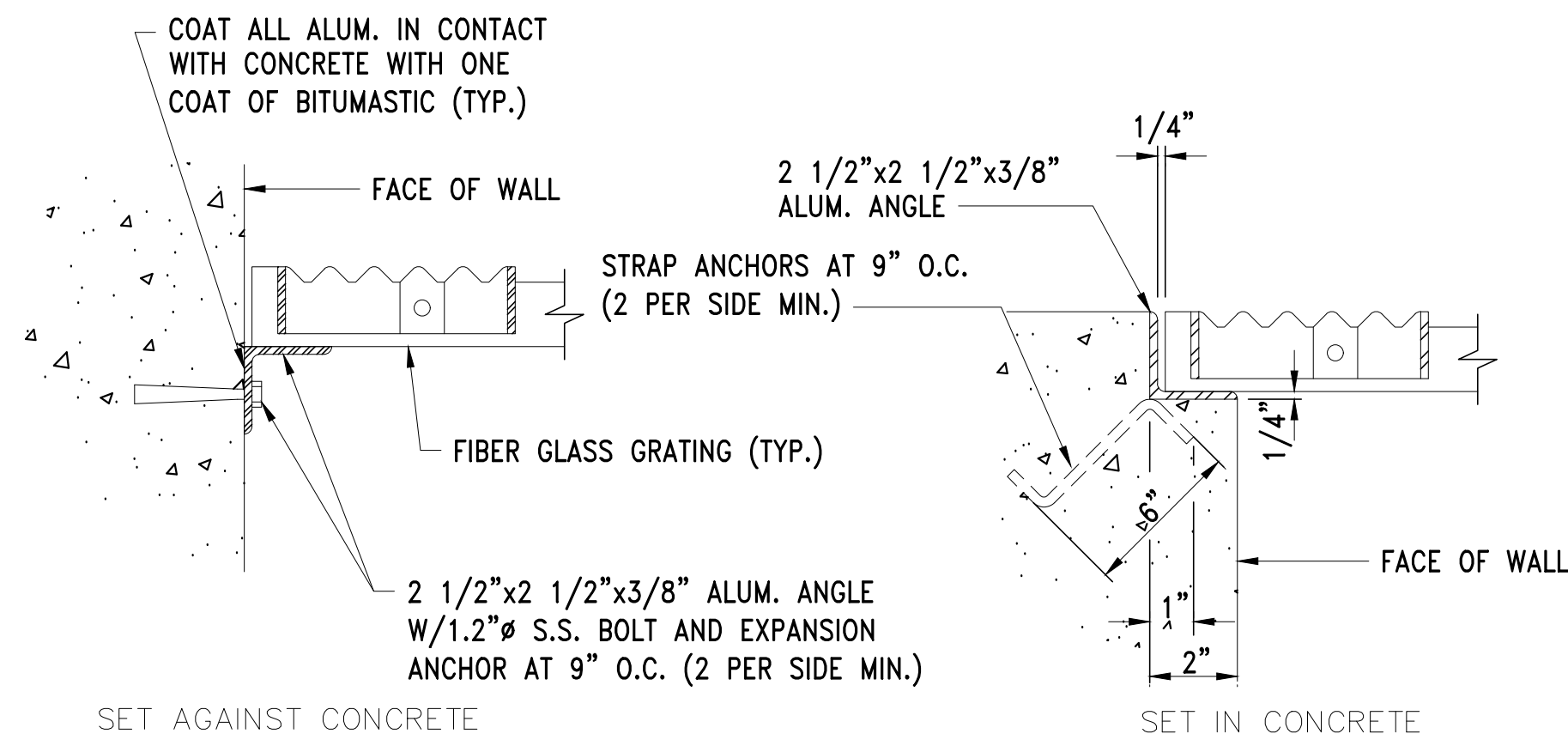
SECTION A



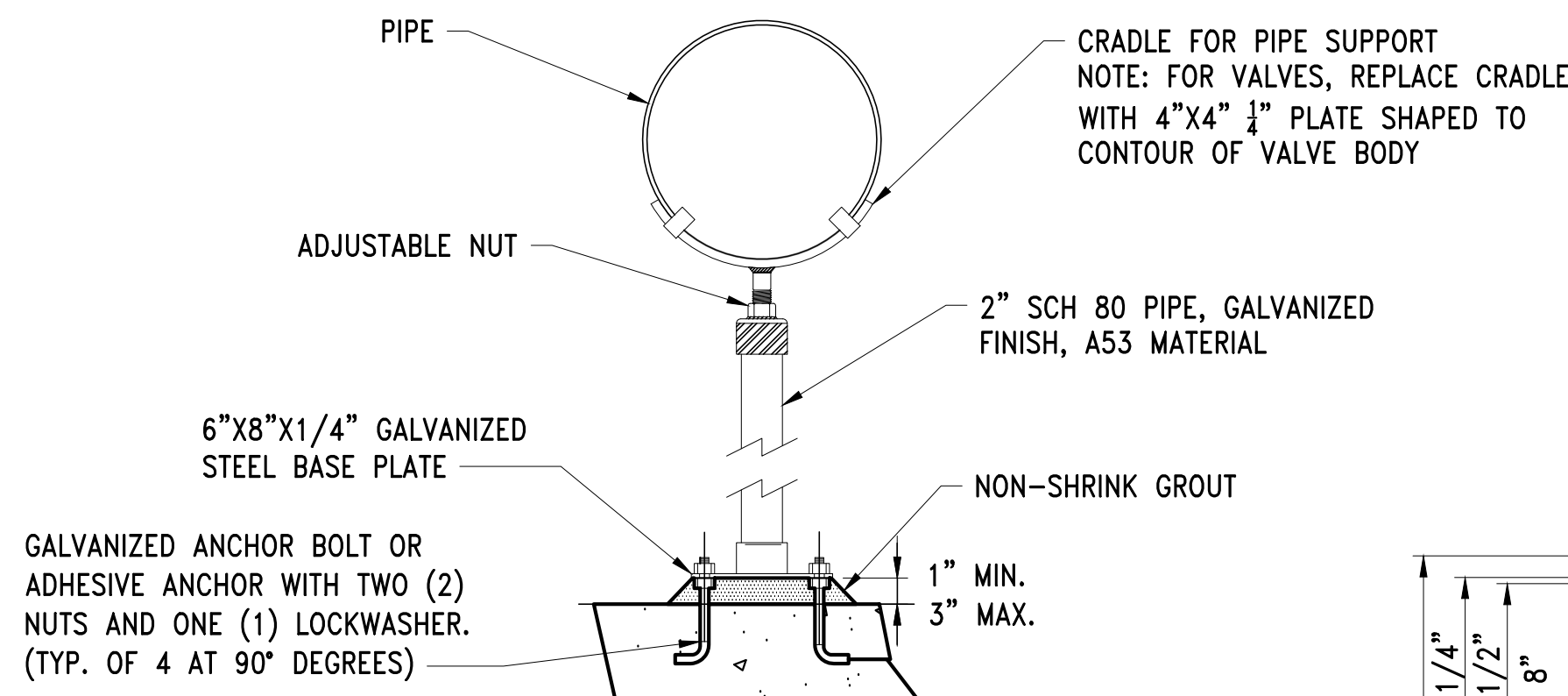
24" MWRA STANDARD FRAME AND COVER
SCALE: NTS

NOTES:

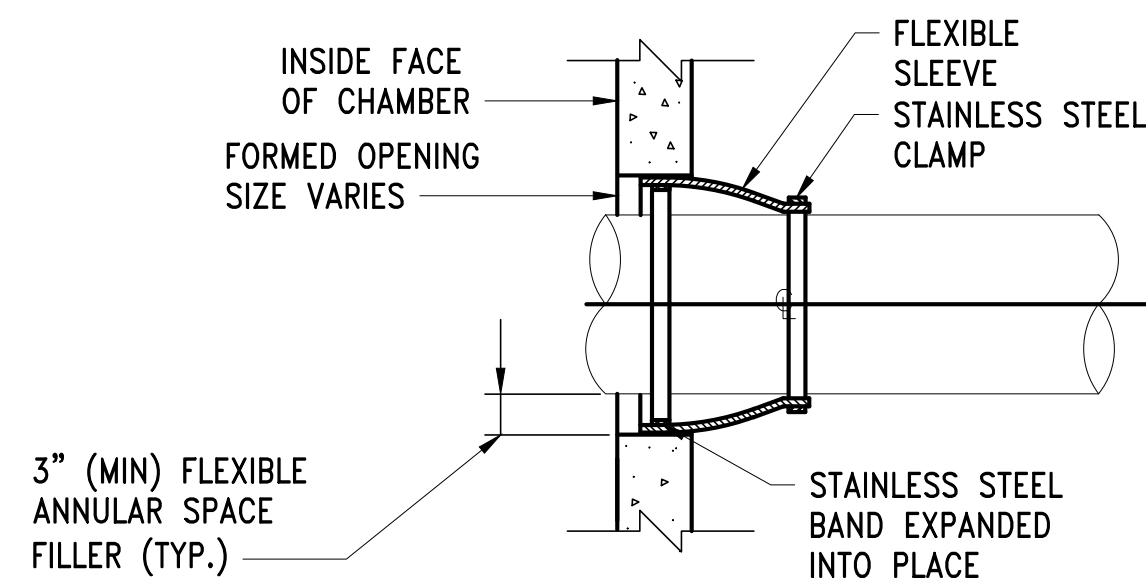
- SHOP DRAWING SUBMITTAL FOR STEM EXTENSIONS SHALL BE A FABRICATIONS DRAWINGS.
- DETERMINE LENGTH OF EXTENSION STEMS BY FIELD MEASUREMENTS AFTER VALVE INSTALLATION. TOP OF STEM EXTENSION NUT TO TOP OF 24" MANHOLE COVER SHALL BE TWELVE INCHES AND TOP OF EXTENSION STEM TO TOP OF 8" CASTING OR SMALLER SHALL BE SIX INCHES. CONSIDER THE HEIGHT OF THE EXTENSION STEM NUT COVER WHEN DETERMINING THE AMOUNT TO BE CUT FOR DIRECT BURIED VALVES.
- ALL WELDS SHALL BE IN COMPLIANCE WITH AMERICAN WELDING CODES. USE UNCOATED ELECTRODES WHERE POSSIBLE TO PREVENT FLUX DEPOSITS. IF COATED ELECTRODES ARE USED ALL WELDING FLUX RESIDUES SHALL BE REMOVED.
- BREAK ALL SHARP EDGES BEFORE CLEANING AND PICKLING
- REMOVE ALL WELD SLAG/RESIDUE AND THEN PICKLE THE FABRICATED STEM EXTENSIONS PRIOR TO HOT DIP GALVANIZING.
- FABRICATED STEM EXTENSIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123/A123M-12 ZINC (HOT-DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS. AVERAGE THICKNESS COATING PER TABLE1, PIPE AND TUBING MATERIAL CATEGORY.
- EXTENSION STEM SHALL BE SOLID STEM



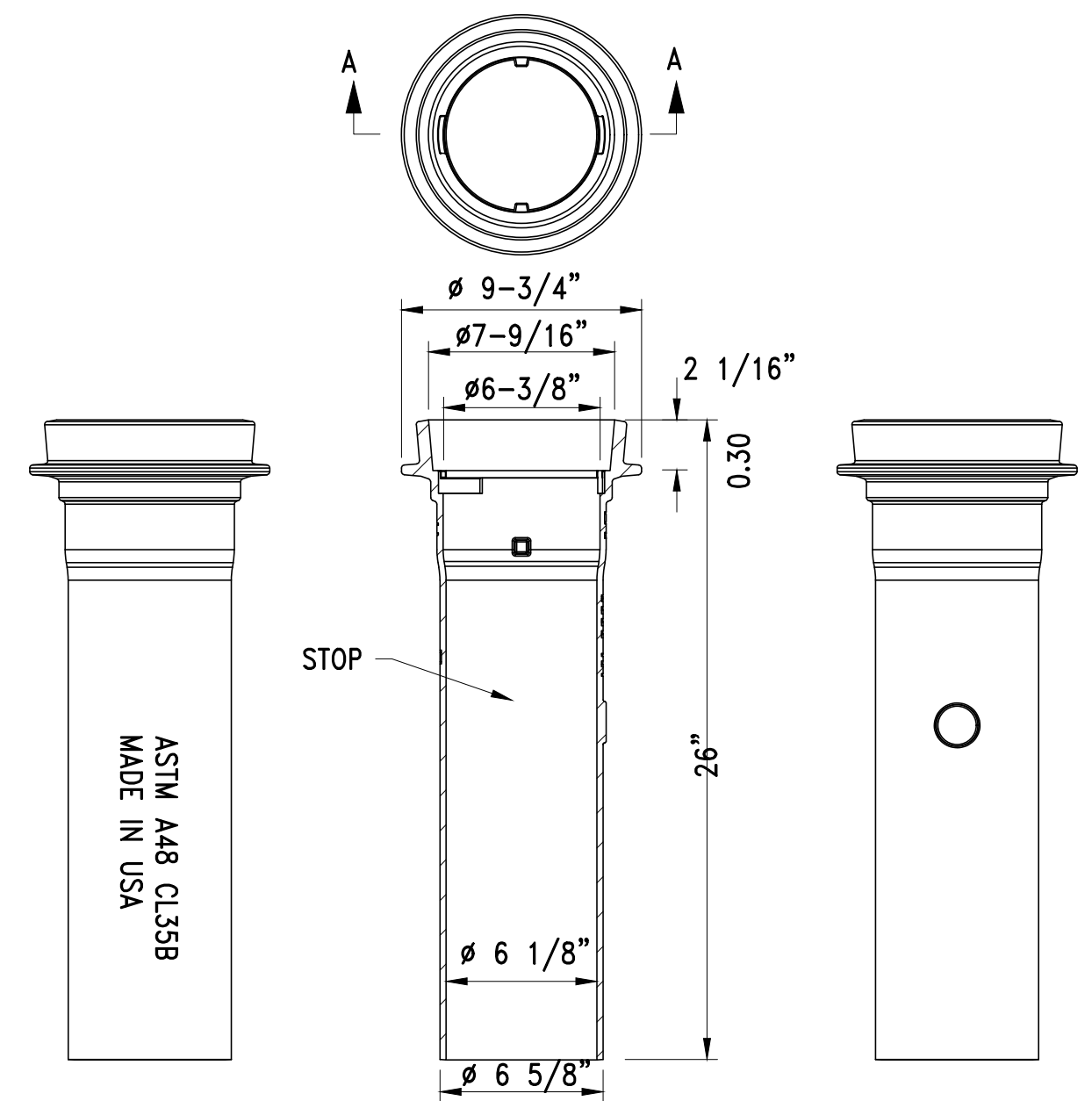
GRATING SUPPORT DETAIL
SCALE: NTS



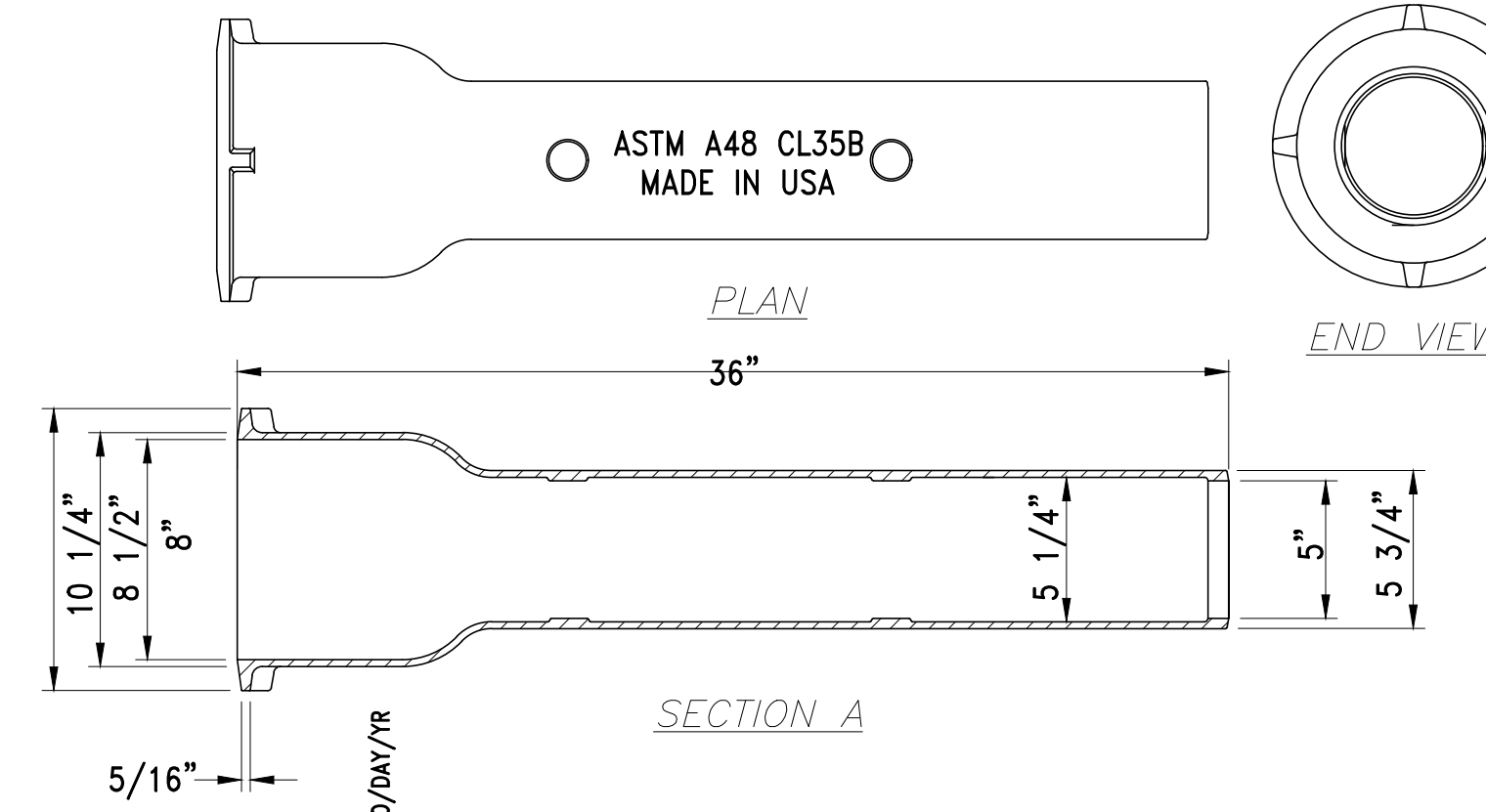
ADJUSTABLE SUPPORT
SCALE: NTS



FLEXIBLE SLEEVE CONNECTION
SCALE: NTS



VALVE BOX TOP
SCALE: NTS



VALVE BOX BOTTOM
SCALE: NTS

CONTRACT NO. :	6543	FILE NO. :	6543_C-501-C-507
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS NOTED	DRAWN BY:	RP
		CHECKED BY:	CON
		APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

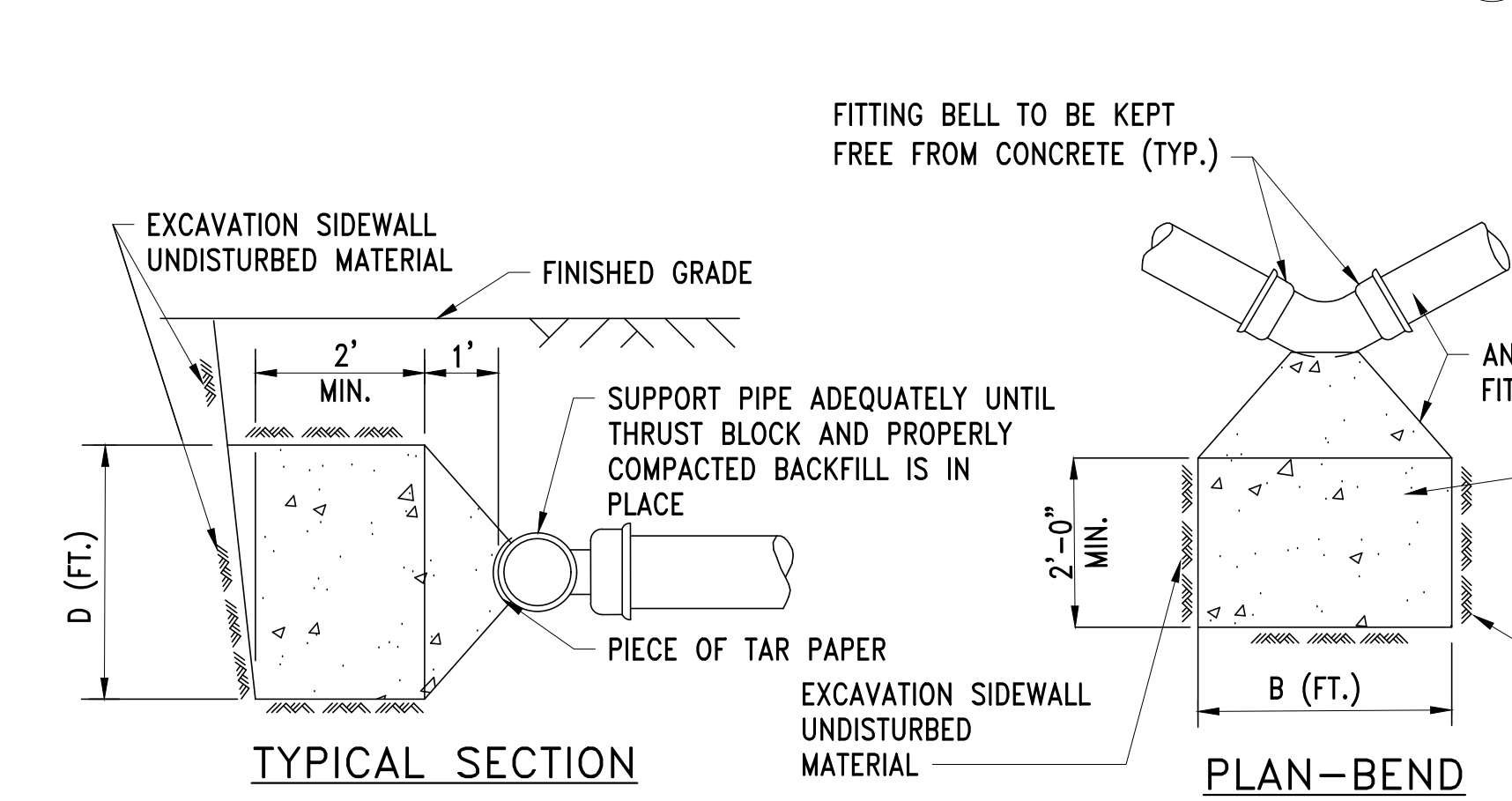
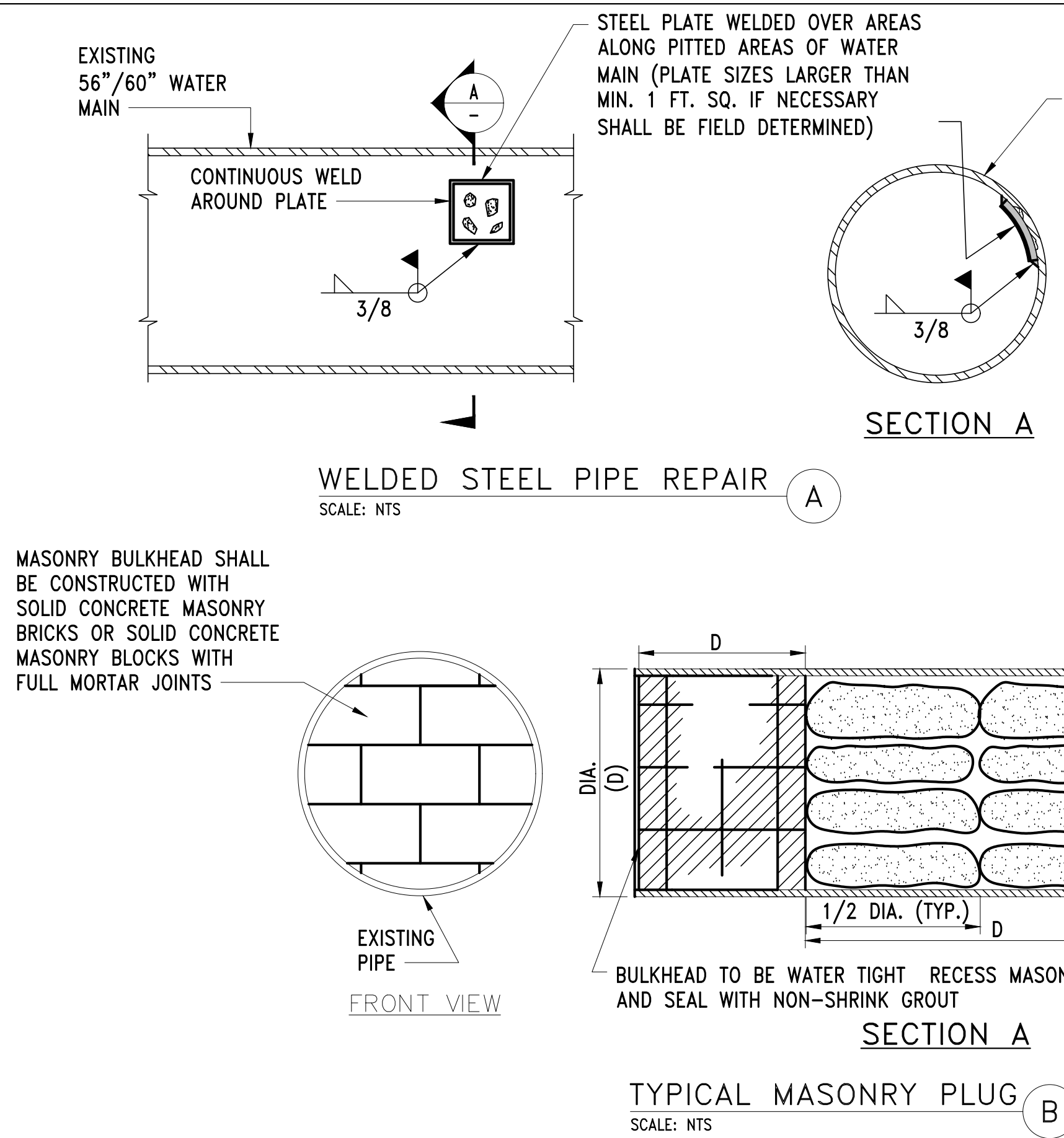
MISCELLANEOUS VALVE AND CHAMBER
DETAILS

DRAWING NO.

C-505

29 OF 83

FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\1951\05\6543\CAD\2.2 Final Design\CPA\05 Civil\6543_C-501-C-507.dwg LAYOUT NAME: C-506 PLOTTED: Friday, August 22, 2025 - 1:24pm USER: dmscrina

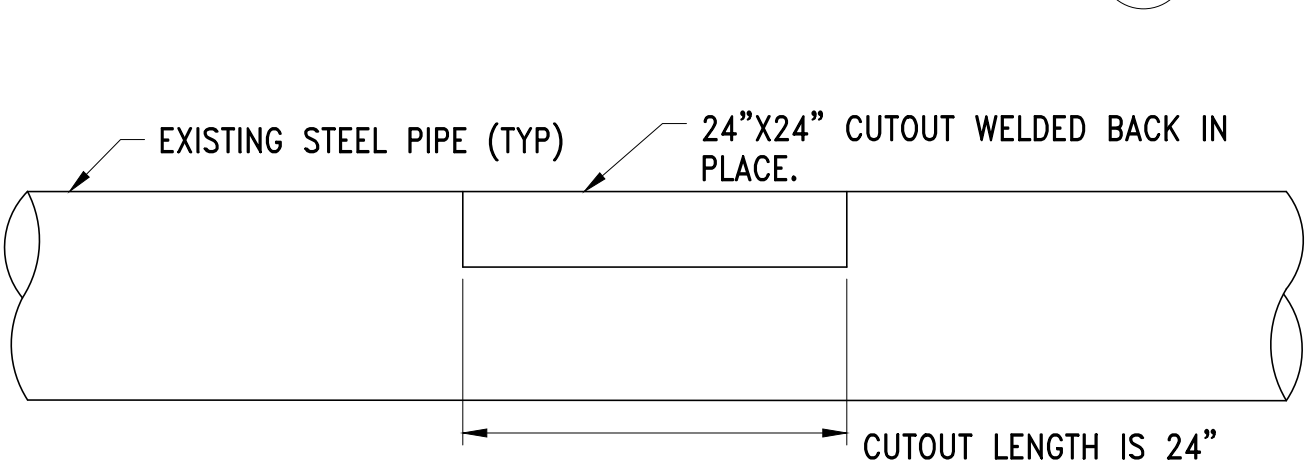


PIPE SIZE	6"	8"	10"	12"	16"	24"
DIMENSION	B	D	B	D	B	D
TEE/CAP	3	3	3	3	4	4
90°	3	3	3	3	4	4
45°	2	2	2	2	3	3
22 1/2°	2	2	2	2	2	2

*USE SIMILAR DIMENSIONS FOR BENDS SMALLER THAN 22 1/2°.

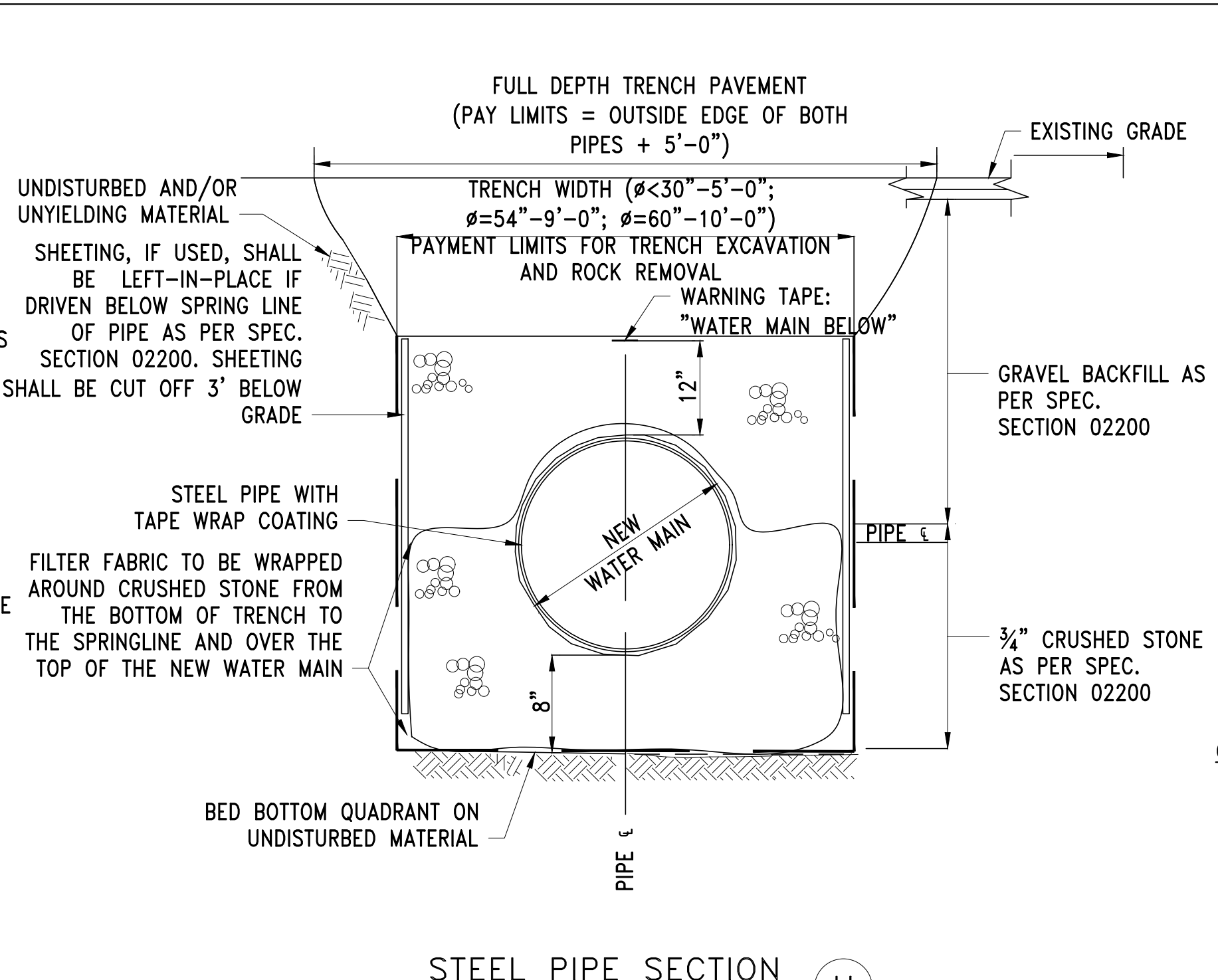
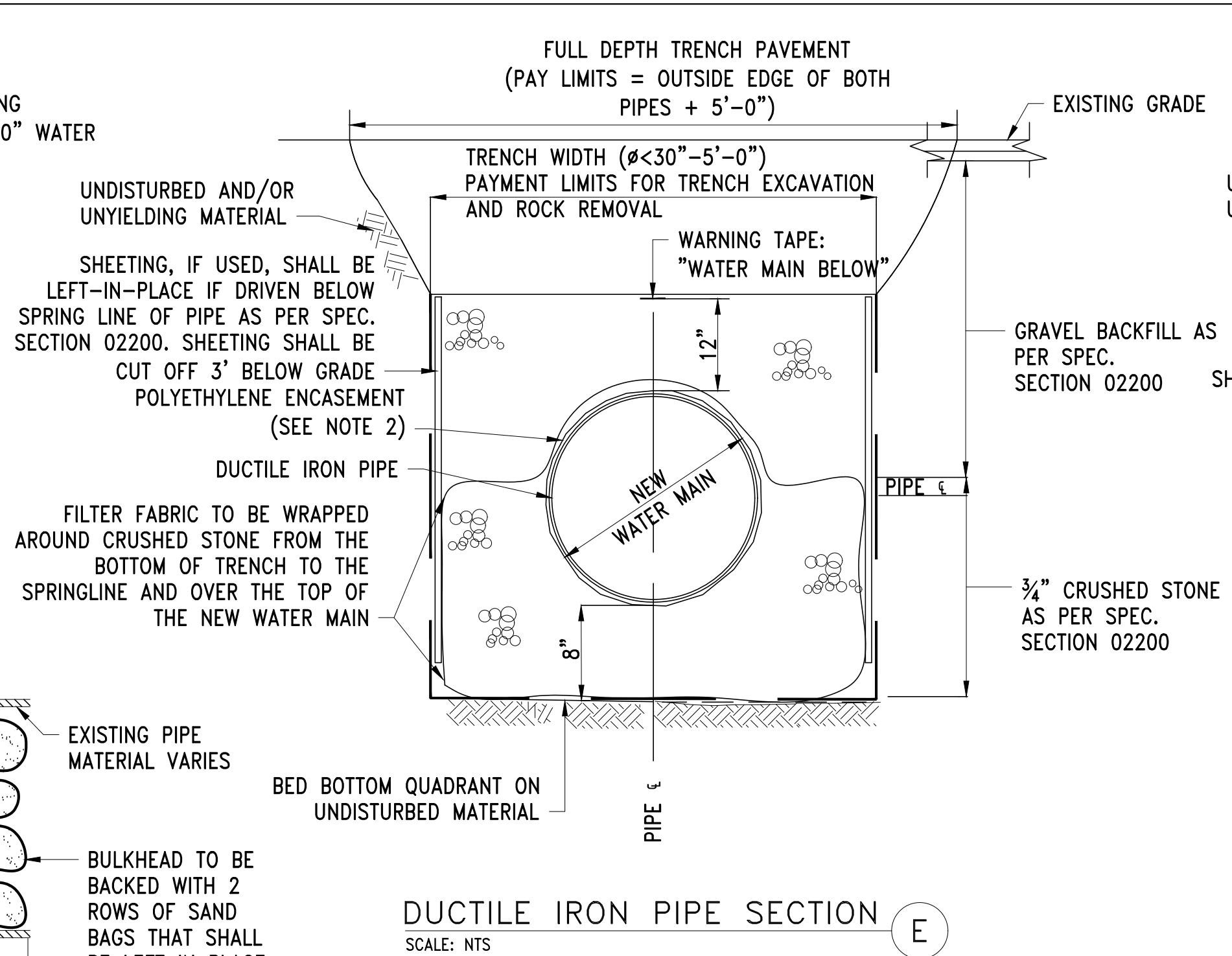
THRUST BLOCK SCHEDULE

THRUST BLOCKS FOR ALL NEW PIPES



AIR ACCESS CUTOUT FOR STEEL PIPE

SCALE: NTS



NOTES

- PLACE FILTER FABRIC ON THE TRENCH BOTTOM. UP THE TRENCH SIDES AND WRAPPED AROUND THE TOP OF THE SCREENED GRAVEL ABOVE THE PIPE TO SEPARATE THE SCREENED GRAVEL FROM THE SURROUNDING SOILS, INCLUDING SELECT COMMON FILL AND PLACED AGAINST UNDISTURBED MATERIALS. THE ENDS OF THE FILTER FABRIC SHOULD OVERLAP A MINIMUM OF 2 FEET OR 1/2 THE WIDTH OF THE TRENCH WHICHEVER IS GREATER.
- ALL SEAMS OF POLYETHYLENE ENCASMENT TUBE SHALL BE OVERLAPPED AND COMPLETELY TAPE SEALED IN ACCORDANCE WITH AWWA C105. THE OVERLAP SHALL ONLY OCCUR AT THE JOINTS AND WILL BE A MINIMUM OF 2 FT OR THE AWWA C105 REQUIREMENT, WHICH IS GREATER

CONCRETE NOTES:

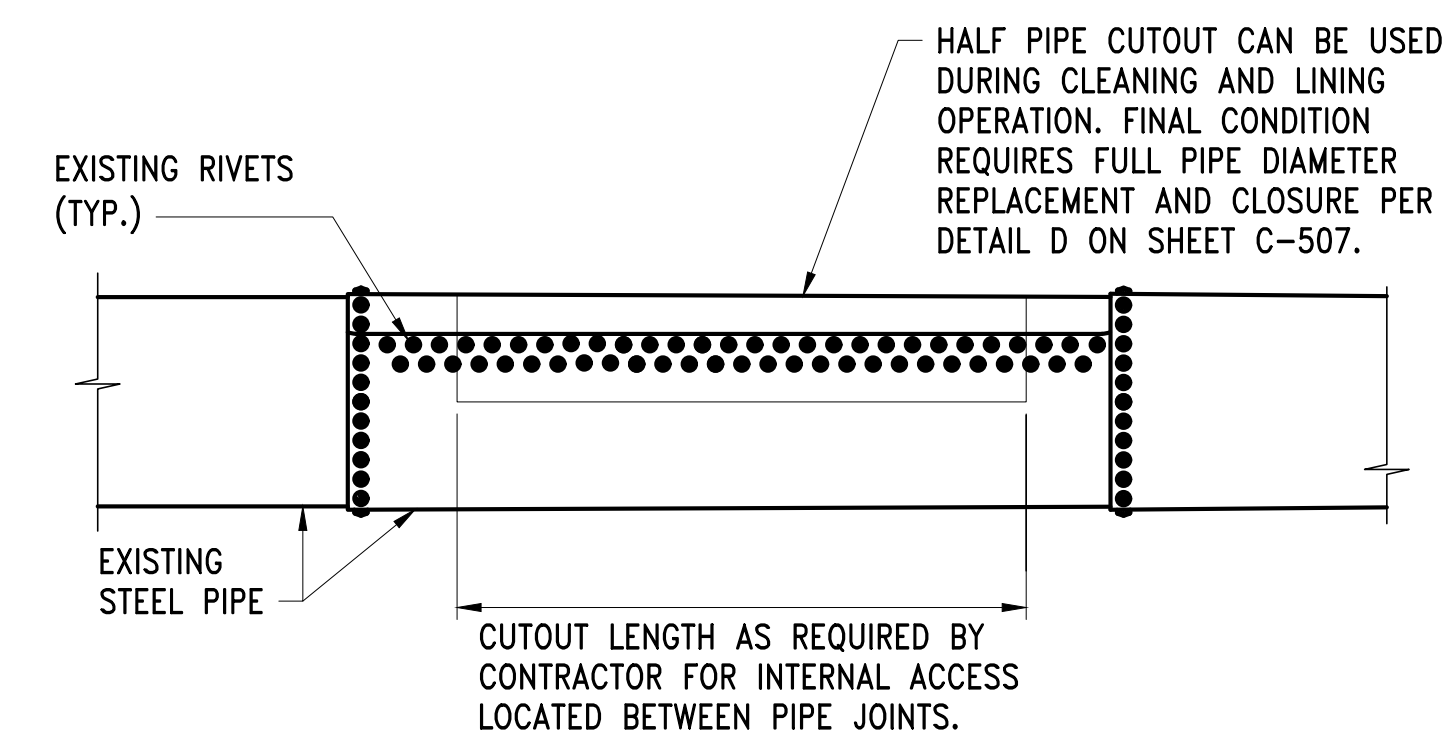
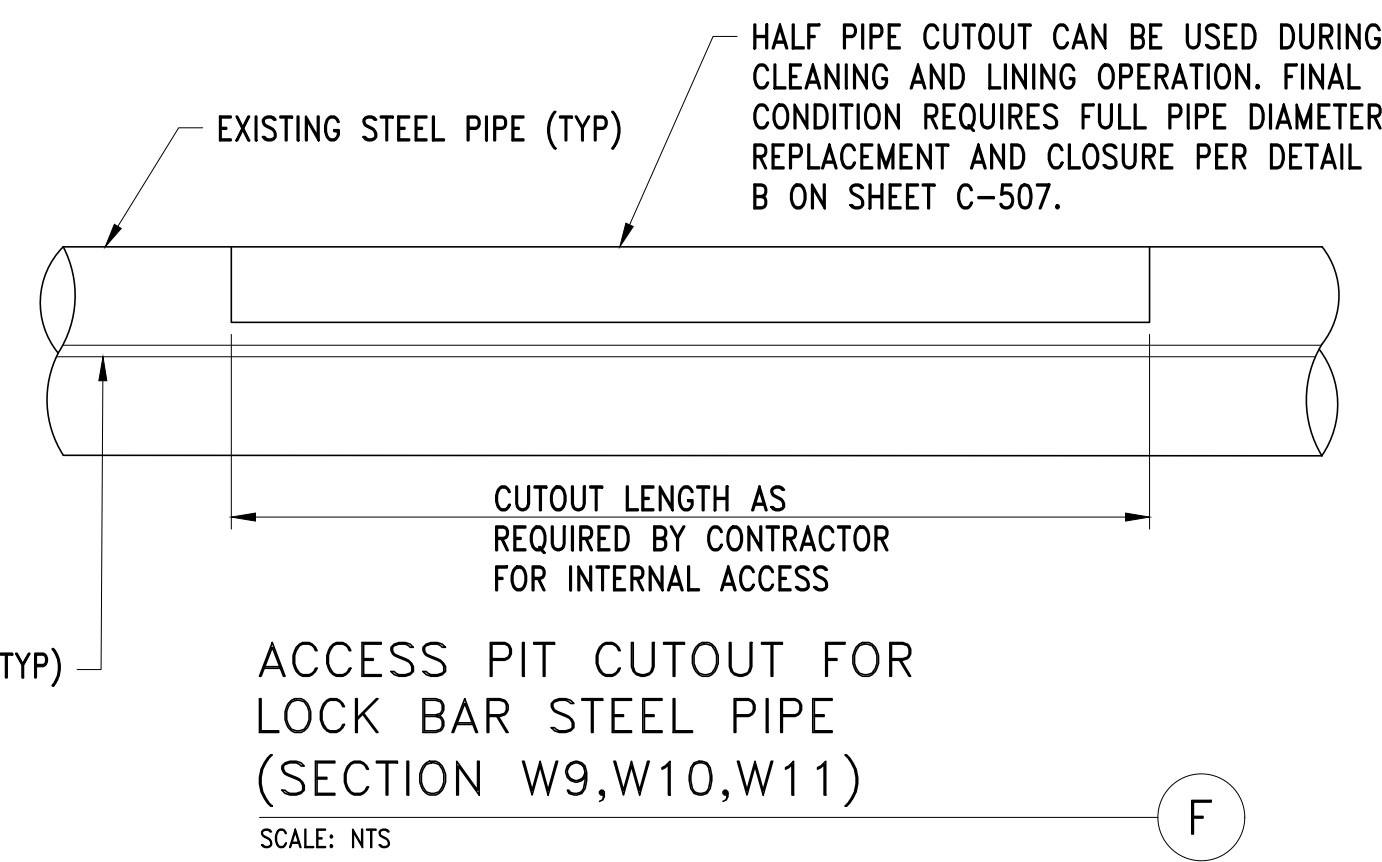
- ALL CONCRETE CONSTRUCTION SHALL BE IN CONFORMITY WITH ACI 318-99 AND ACI 350 R-81.
- CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 AND SHALL BE EPOXY COATED.
- MINIMUM LAP SPLICES AND EMBEDMENT LENGTHS FOR REINFORCING BARS NOT SHOWN ON DWGS. SHALL BE AS FOLLOW:

BAR SIZE	MIN. LAP LENGTH	MIN. EMBEDMENT LENGTH
	OTHER IN.	TOP IN.
6	29	38
7	55	72

- ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/8" CHAMFER
- SHOP DRAWINGS SHALL BE COMPLETED AND CHECKED BY THE CONTRACTOR PRIOR TO SUBMISSION FOR AUTHORITY'S APPROVAL.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL: ASTM A 992 GR 50 UNLESS OTHERWISE INDICATED
- ANCHOR BOLTS: F1554 GR55.

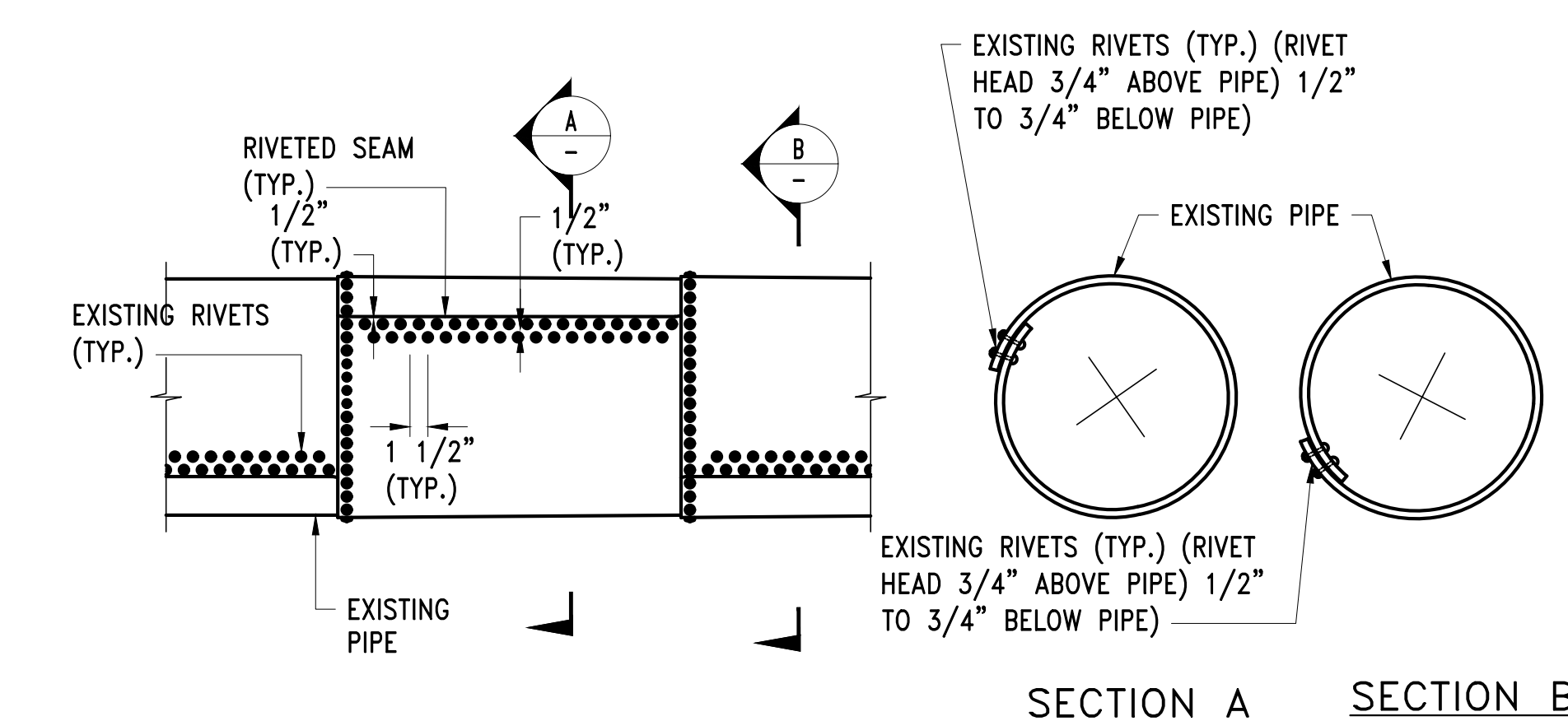


NOTE:

- SEE DETAIL I ON THIS SHEET FOR INFORMATION ON PIPE JOINTS, SEAM AND RIVETS.

ACCESS PIT CUTOUT FOR RIVETED SEAM STEEL PIPE

SCALE: NTS



TYPICAL RIVET LAYOUT OF EXISTING 60" RIVETED STEEL WATER MAIN

SCALE: NTS

CONTRACT NO. :	6543	FILE NO. :	6543_C-501-C-507
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS NOTED	DRAWN BY:	RP
		CHECKED BY:	NRB
		APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



45 BLUE SKY DRIVE, 3RD FLOOR
BURLINGTON, MA 01803
www.stantec.com

WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

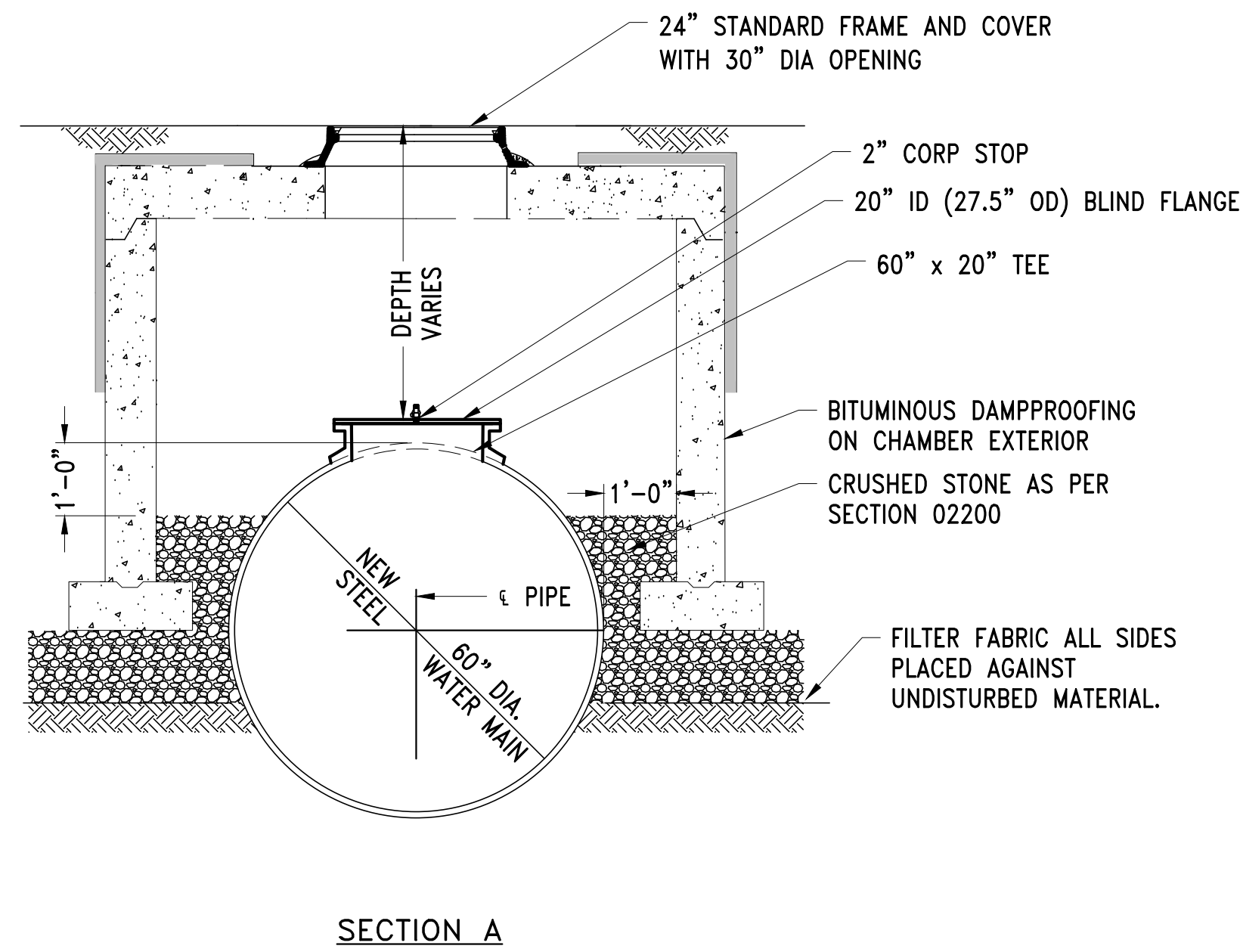
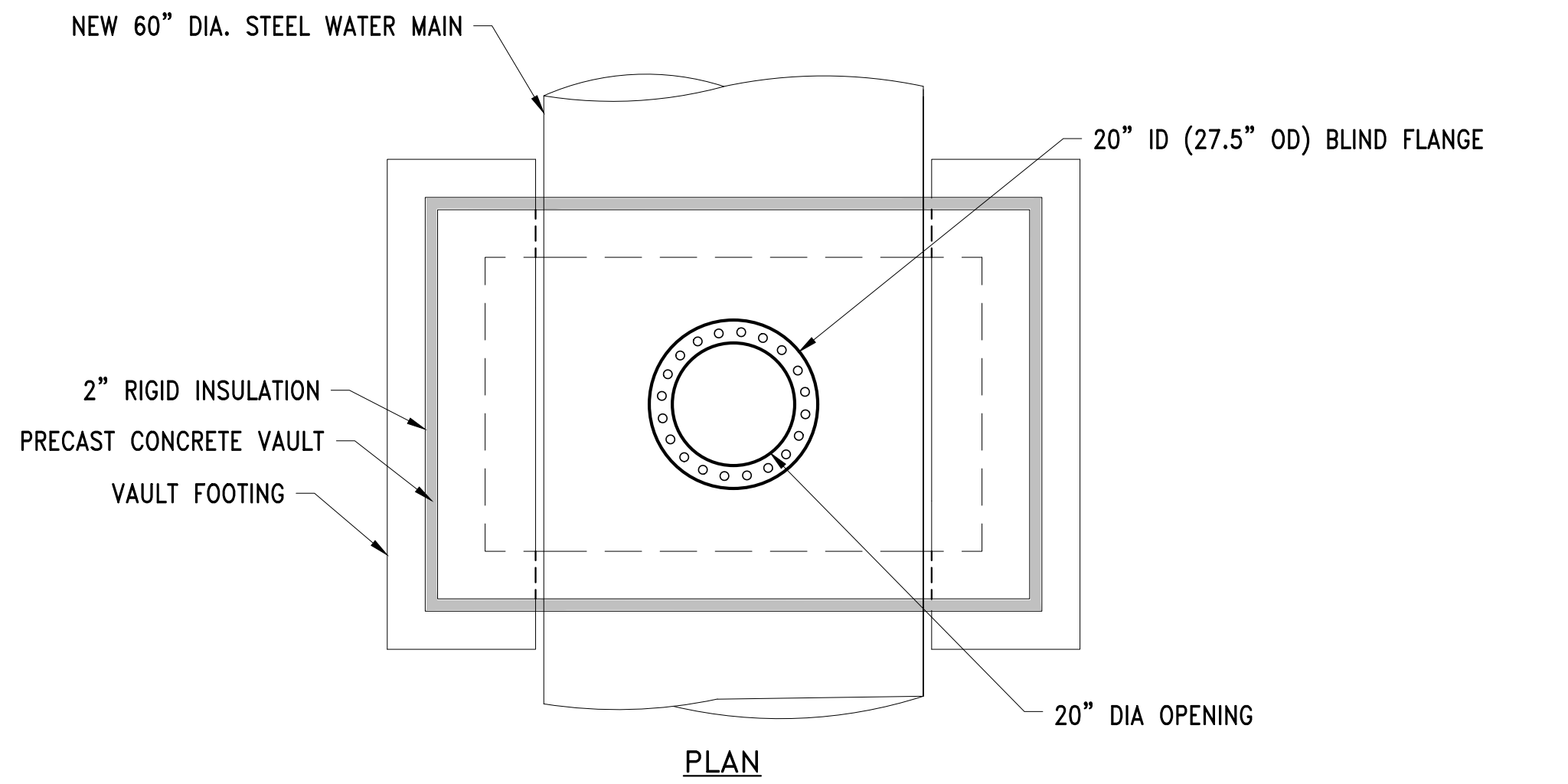
TRENCH SECTION, THRUST BLOCK AND
CONCRETE ENCASMENT DETAILS

DRAWING NO.

C-506

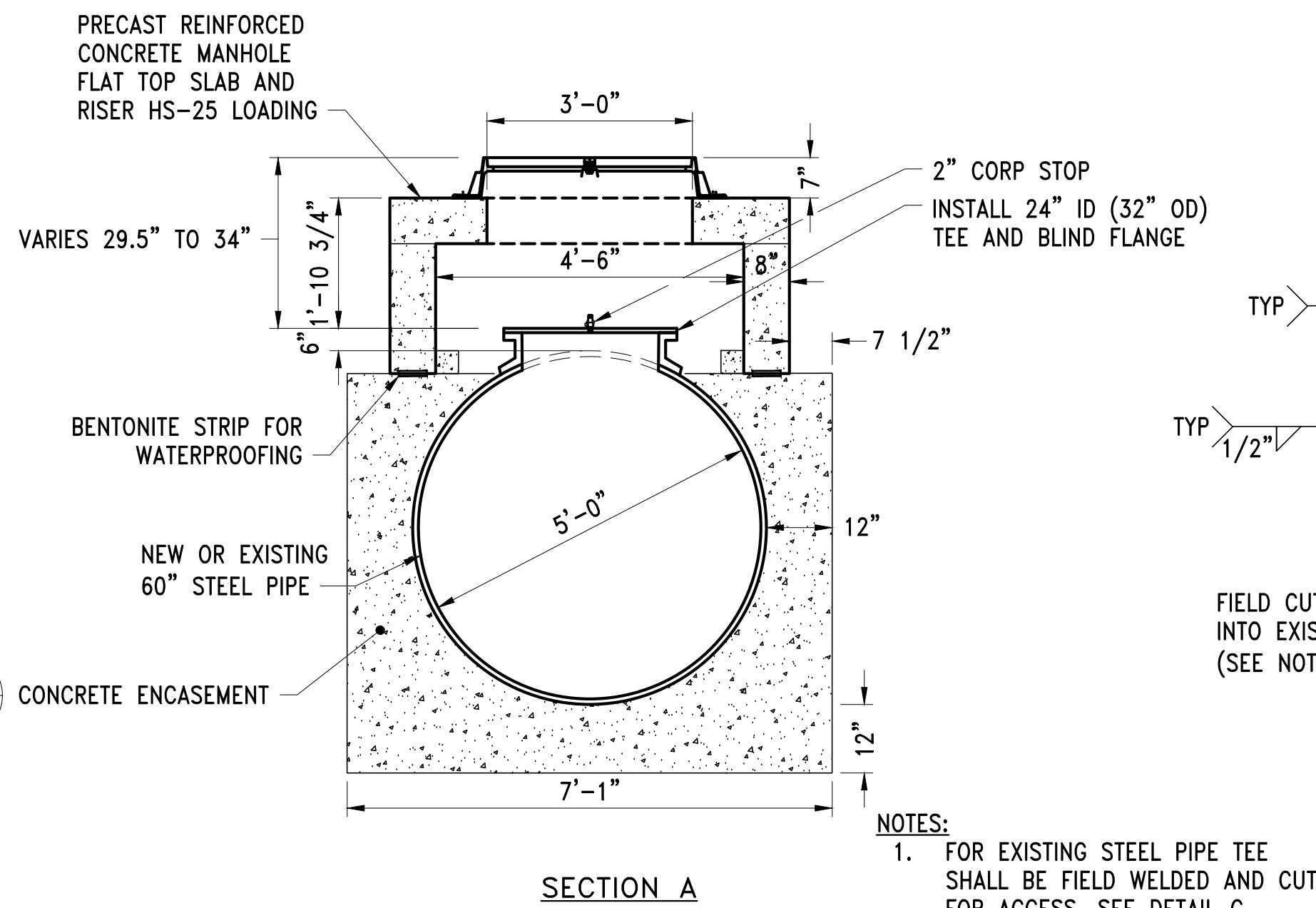
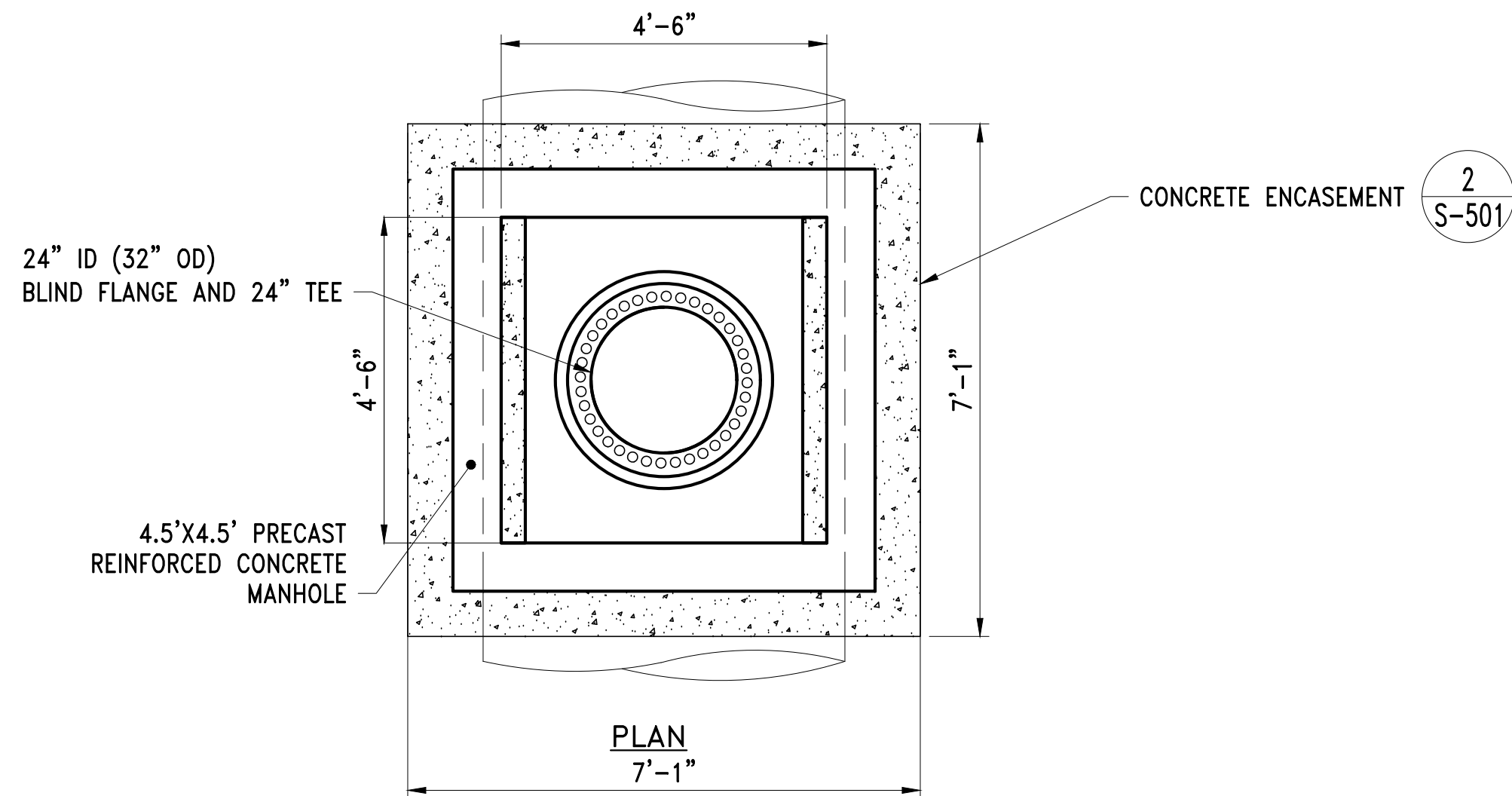
30 OF 83

FILE NAME: \\US0552-PPSS01\workgroup\1951\active\1951\01\85\CAD\2.2 Final Design\CPA\05 Civil\6543_C-510-C-515.dwg LAYOUT NAME: C-510 ACCESS VAULT & MANHOLE DETAILS PLOTTED: Friday, August 22, 2025 - 1:36pm USER: dmacrina



TYPICAL ACCESS VAULT A

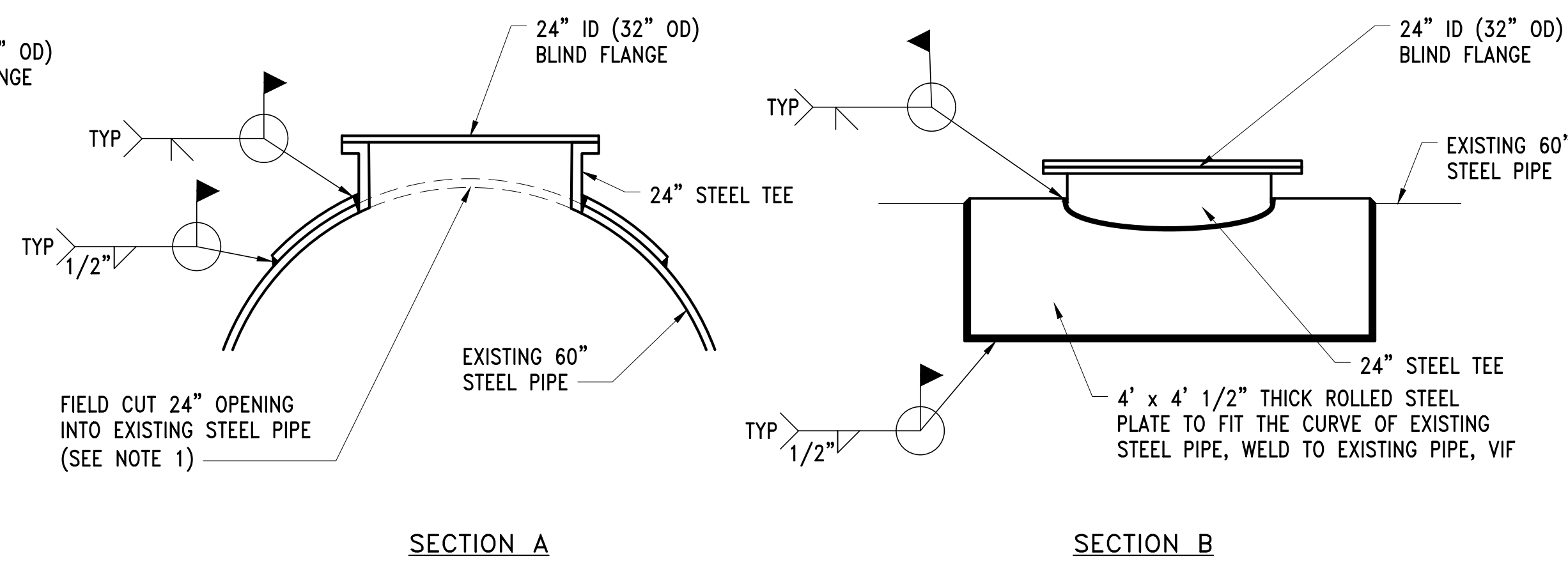
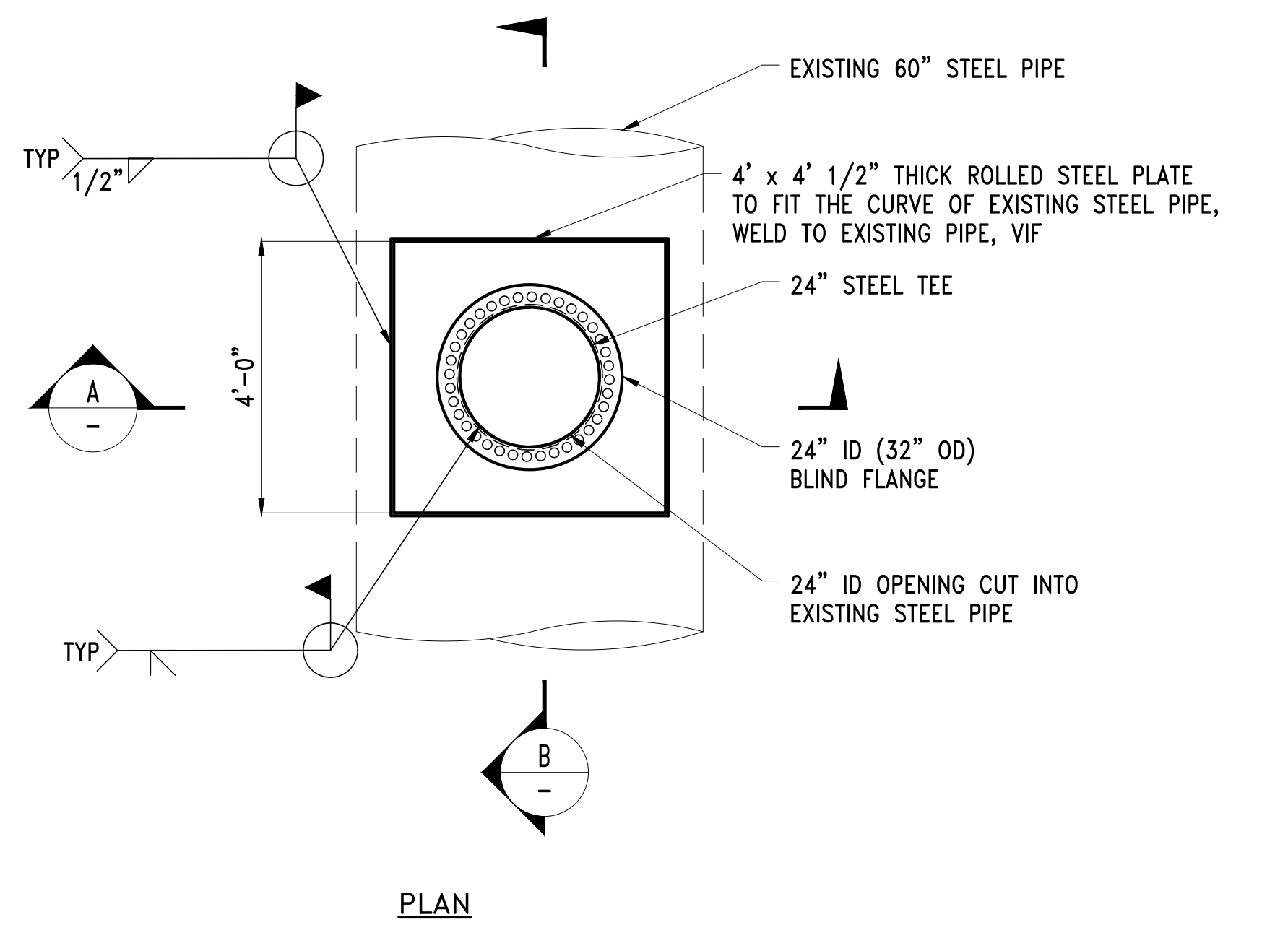
DETAIL A - LOCATION TABLE ACCESS VAULT			
PIPE LINE	PLAN SHEET	STATION	DEPTH-FT
WASM 3	C-104	20+98	3.4



- NOTES:
1. FOR EXISTING STEEL PIPE TEE SHALL BE FIELD WELDED AND CUT FOR ACCESS. SEE DETAIL C

ACCESS MANHOLE WITH CONCRETE ENCASEMENT B

DETAIL B - LOCATION TABLE ACCESS MANHOLE WITH CONCRETE ENCASEMENT			
PIPE LINE	PLAN SHEET	STATION	DEPTH-FT
WASM 3	C-101	117+01	2.2
WASM 3	C-102	139+97	2.2
WASM 3	C-102	144+24	1.8

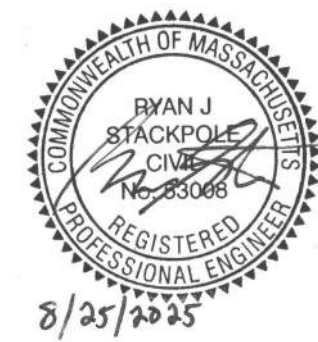


- NOTES:
1. FOR ACCESS MANHOLES ON EXISTING STEEL PIPE TO BE STRUCTURALLY LINED, THE LINER SHALL EXTEND INTO THE 24" WELDED STEEL TEE AND TERMINATE WITH SS EXPANSION RING AND ELASTOMERIC RUBBER STRIPS

WELDED ACCESS TEE C

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-510-C-515
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
SCALE:	AS NOTED	DRAWN BY:	TJC
		CHECKED BY:	CON
		APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

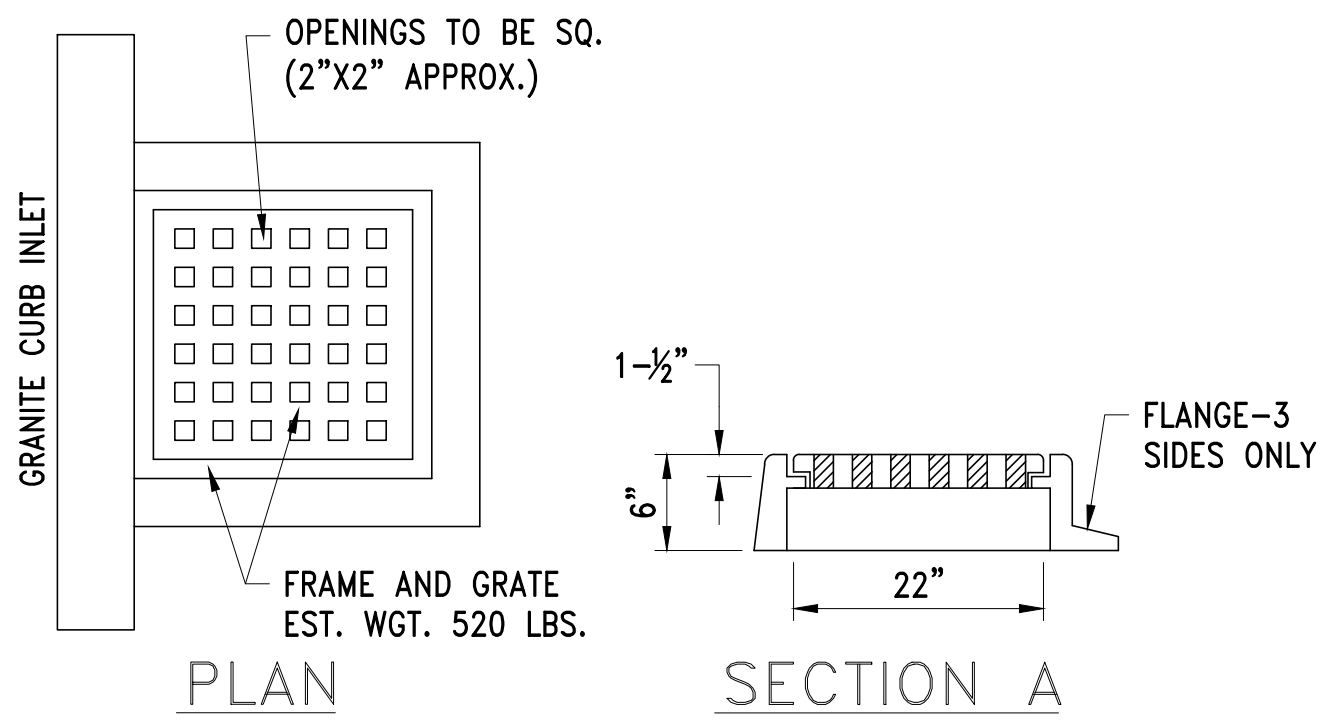
ACCESS VAULT & MANHOLE DETAILS

DRAWING NO.

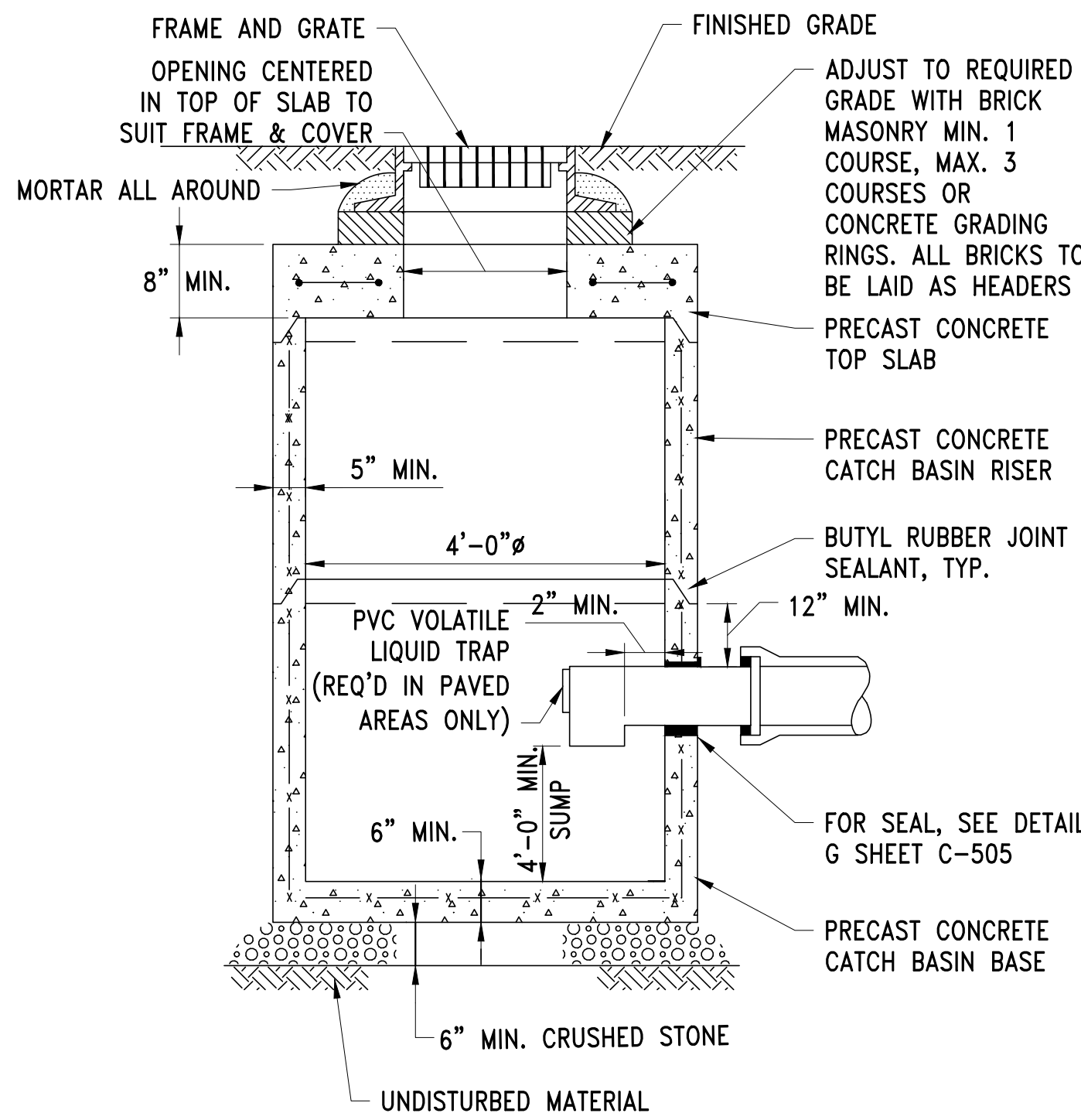
C-510

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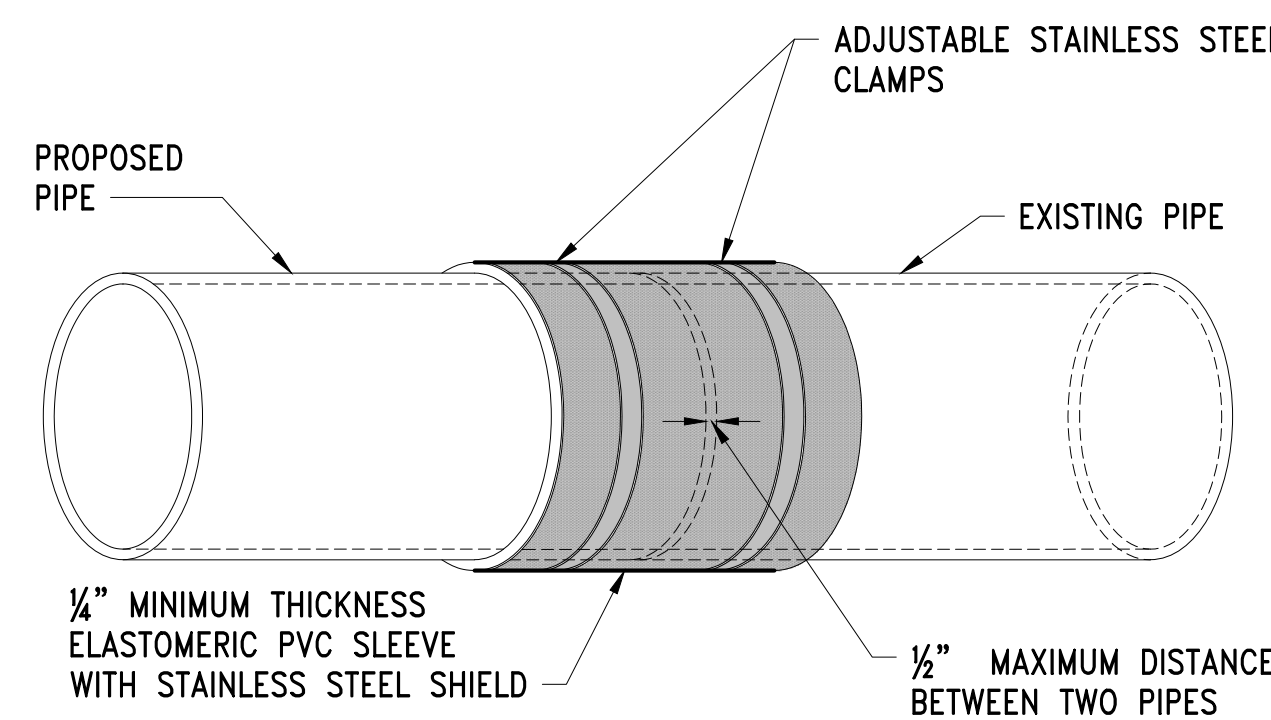
FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-510-C-515.dwg LAYOUT NAME: C-511 LOCAL UTILITY DETAILS PLOTTED: Friday, August 22, 2025 - 1:37pm USER: dmazina



CATCH BASIN FRAME AND GRATE (LOCAL)
SCALE: NTS



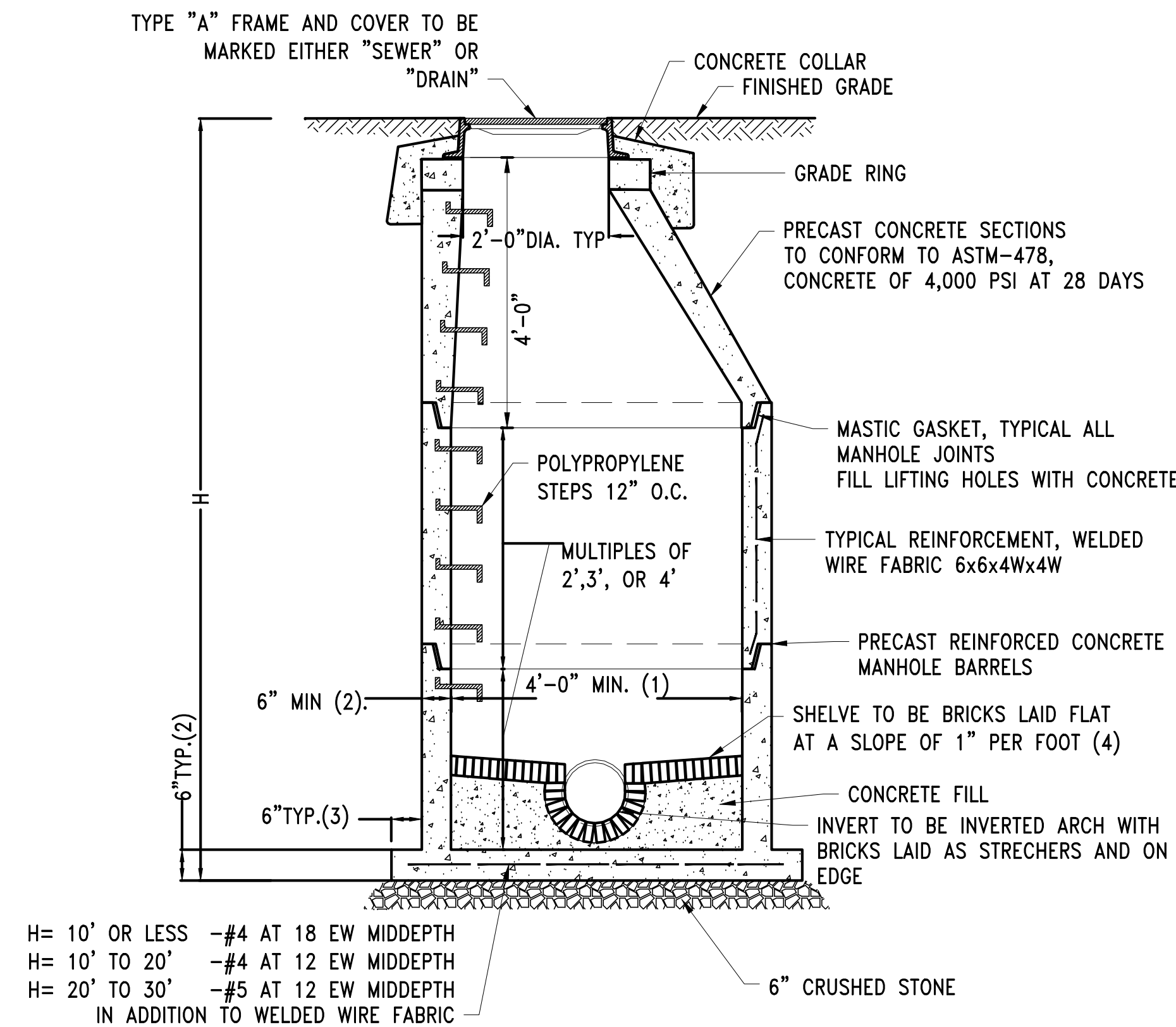
PRECAST CATCH BASIN
SCALE: NTS



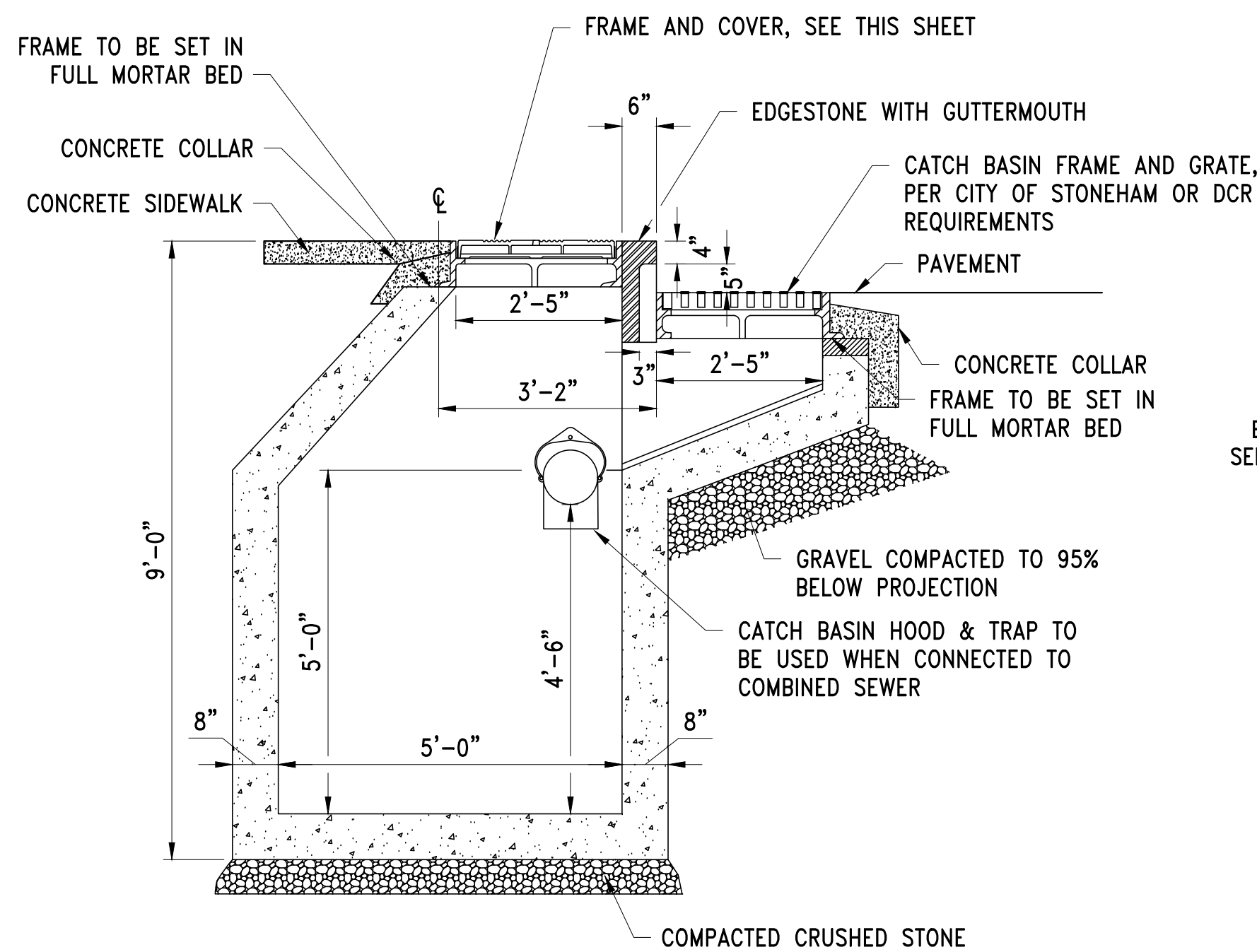
- NOTE:
1. THE PROPOSED PIPE MAY HAVE AN OUTSIDE DIAMETER (O.D.) THAT IS DIFFERENT THAN THE O.D. OF THE EXISTING PIPE. THE CONTRACTOR SHALL VERIFY THE O.D. PRIOR TO ORDERING THE COUPLING.
 2. FOR NON-PRESSURE PIPES OF DIFFERENT MATERIALS OR SIZES.
 3. FOR ALL GRAVITY MAINS AND LATERAL PIPES (SEWER OR DRAIN).

TYPICAL SEWER AND DRAIN COUPLING DETAIL
SCALE: NTS

NO.	DATE	BY	CHK'D	REVISION

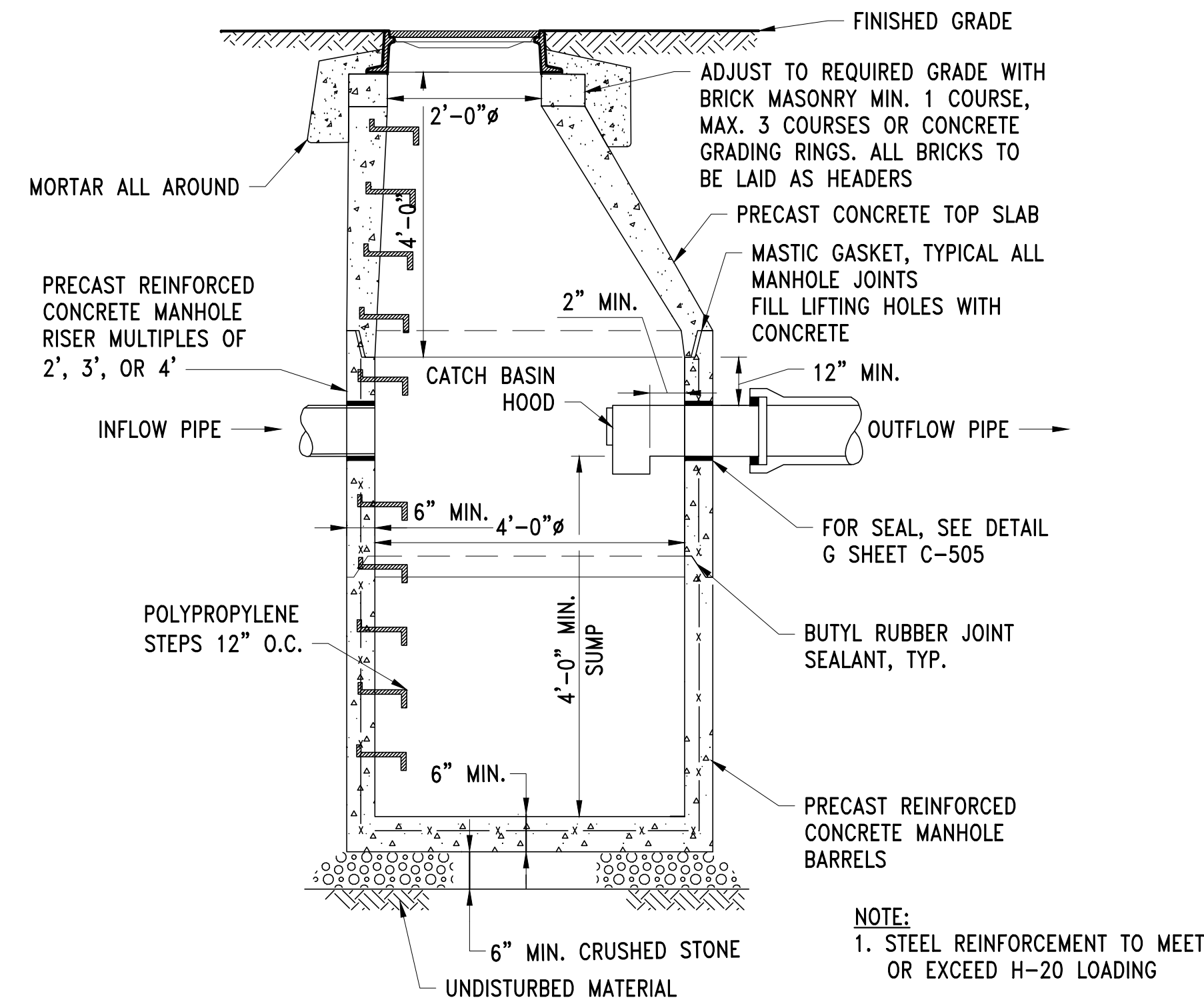


TYPICAL DRAIN AND SEWER MANHOLE DETAIL
SCALE: NTS

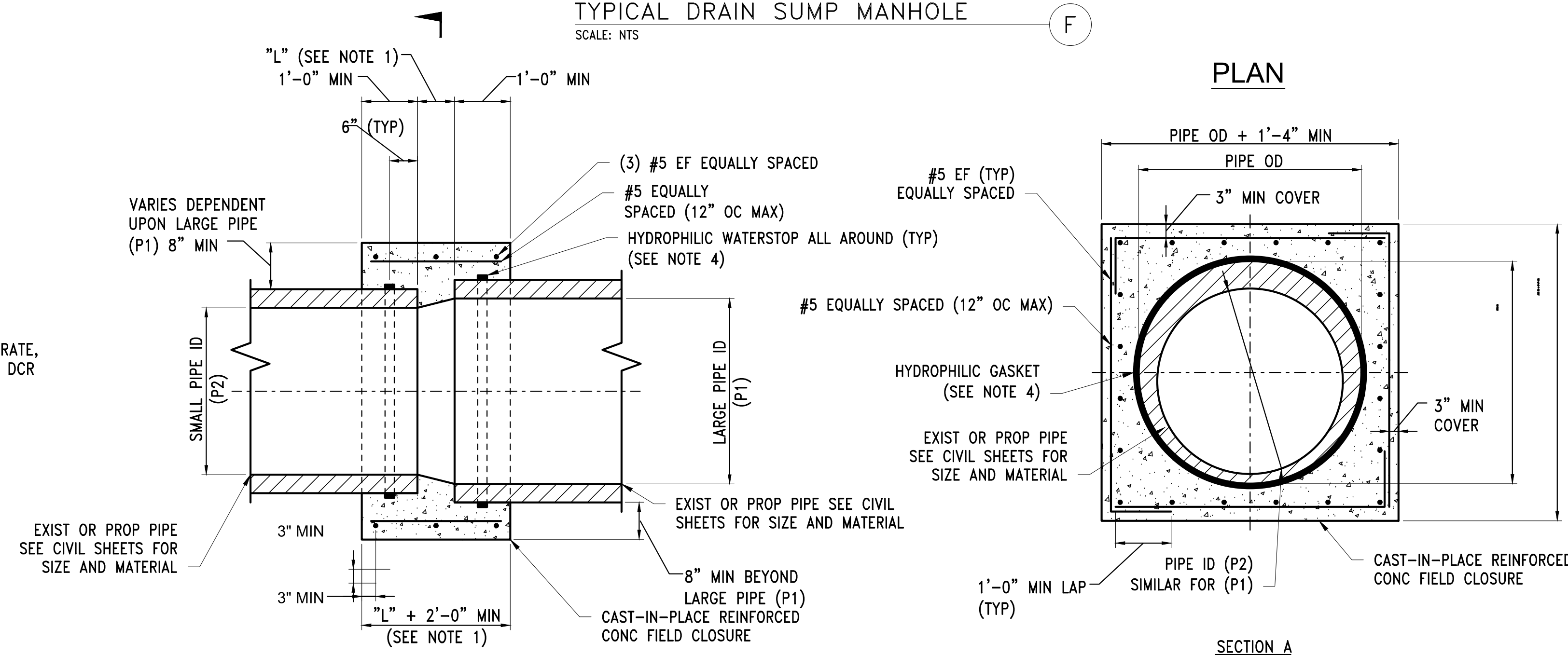


- NOTES:
1. DESIGNED FOR AASHTO HS25-44 LOADING.
 2. CONCRETE STRENGTH F'C = 5000PSI
 3. REINFORCING STEEL: ASTM A185 (WWF) FY = 60,000PSI
 4. WEIGHT = 0.76 TONS

SHALLOW GUTTER INLET DETAIL AT CURB
SCALE: NTS



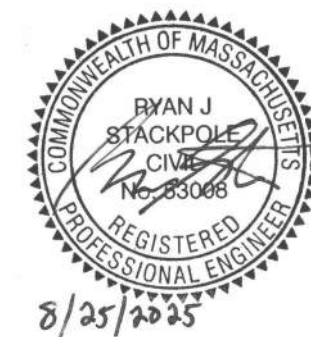
TYPICAL DRAIN SUMP MANHOLE
SCALE: NTS



- NOTES:
1. SPACING BETWEEN PIPES (L) DEPENDS ON PIPE SIZES, FOR PIPES OF THE SAME SIZE USE 4". THE DISTANCE "L" EQUALS THE LARGE PIPE ID MINUS THE SMALL PIPE ID TIMES TWO [L=(P1-P2)x2]. WHERE PIPES ARE NON CIRCULAR THE PIPE ID TO BE USED SHALL BE THE SMALLEST DIAMETER MEASURED FOR THE INVERT OF THE PIPE.
 2. WHEN DRAIN JOINS ONE OF A LARGER DIAMETER, THE INVERT OF THE LARGER DRAIN SHOULD BE LOWERED SUFFICIENTLY TO MAINTAIN THE SAME ENERGY GRADIENT. AN APPROXIMATE METHOD FOR SECURING THESE RESULTS IS TO PLACE THE 0.8 DEPTH POINT OF BOTH DRAINS AT THE SAME ELEVATION. WHEN THE RATIO OF THE SMALLER DRAIN TO THE LARGER DRAIN IS EQUAL OR GREATER THAN 0.8, THEN IT WILL BE PERMISSIBLE TO MATCH CROWNS.
 3. SAND BLAST EXIST PIPE PERIMETER AND APPLY BONDING AGENT PRIOR TO CONCRETE ENCASEMENT.
 4. INSTALL HYDROPHILIC WATERSTOP ALONG PIPE PERIMETER FOR EACH PIPE. SEE SPECIFICATIONS.
 5. CONCRETE AND REBAR REQUIREMENTS SHALL CONFORM TO CAST-IN-PLACE CONCRETE.
 6. LOCATION OF FIELD CLOSURE SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.
 7. MAINTAIN 2" COVER BETWEEN PIPE EXTERIOR AND ALL REINFORCING AND 3" MINIMUM FOR CONCRETE SURFACES SHOWN.

CONCRETE CLOSURE COUPLING
SCALE: NTS

CONTRACT NO. :	6543	FILE NO. :	6543_C-510-C-515
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
		DRAWN BY:	TJC
		CHECKED BY:	CON
SCALE:	AS NOTED	APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



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BURLINGTON, MA 01803
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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

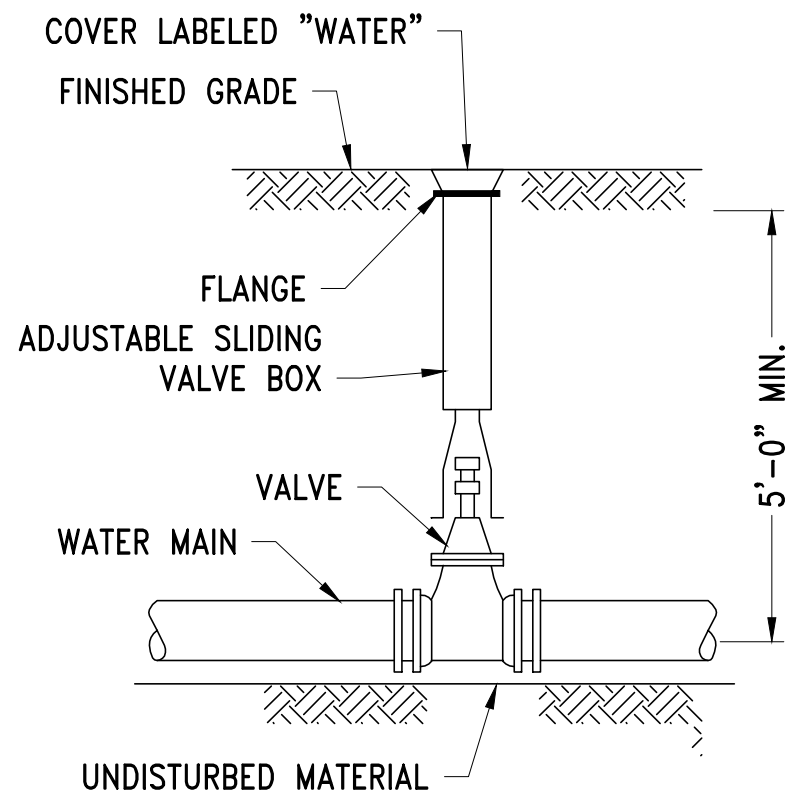
LOCAL UTILITY DETAILS

DRAWING NO.

C-511

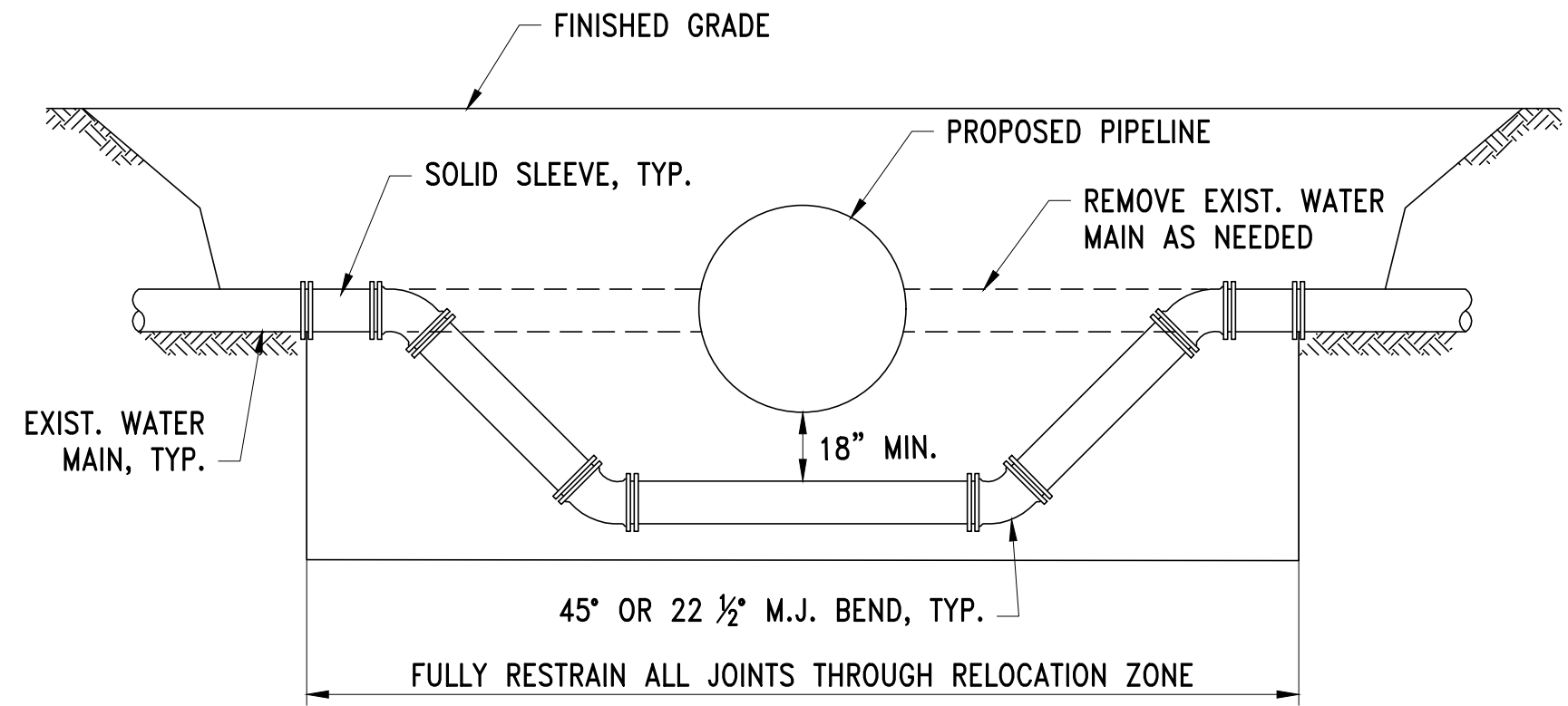
35 OF 83

FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\1951\05\6543_C-510-C-515.dwg LAYOUT NAME: C-512 WATER DETAILS PLOTTED: Friday, August 22, 2025 - 1:39pm USER: dmccrino



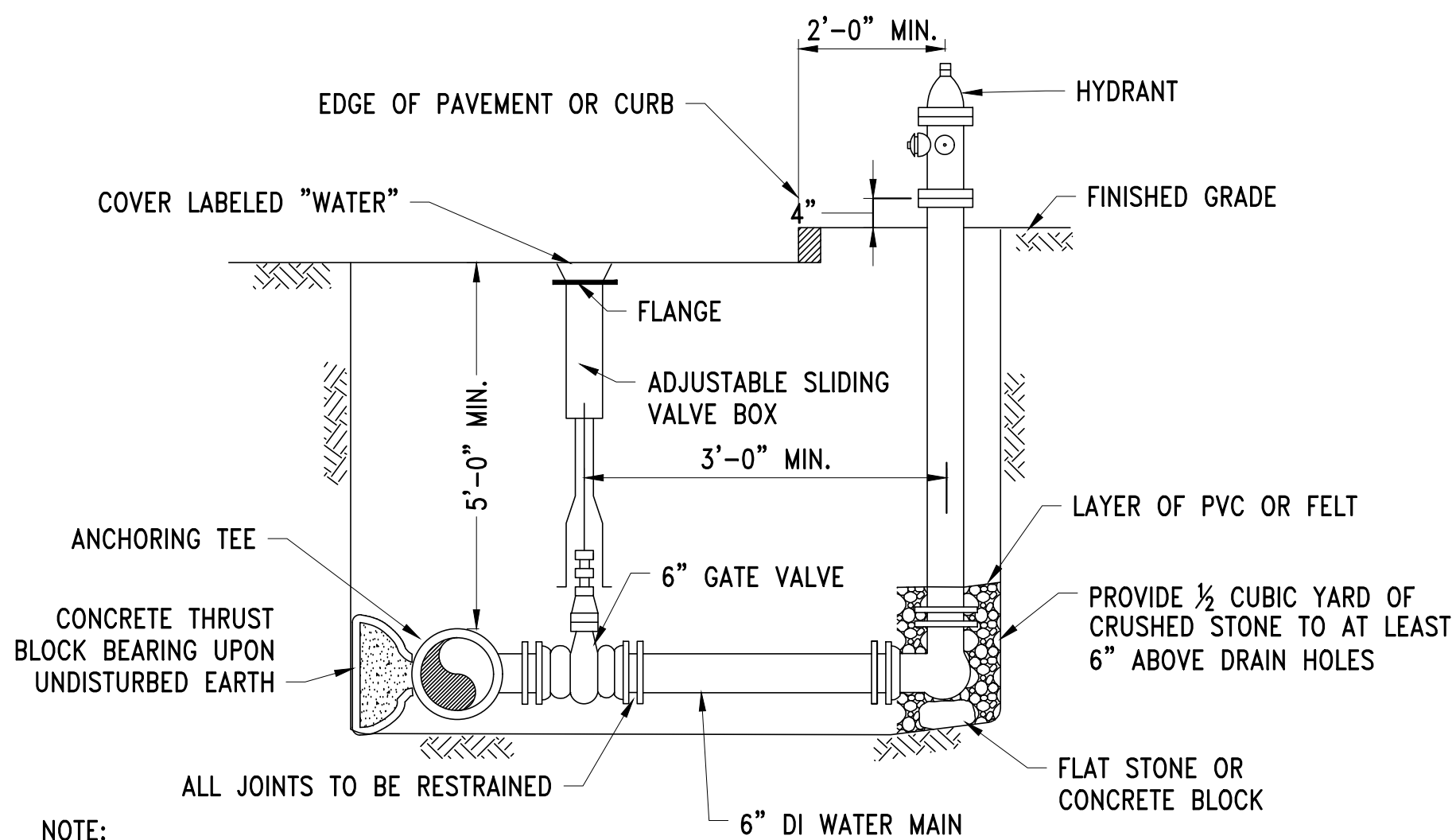
VALVE AND BOX
SCALE: NTS

A



EXISTING WATER MAIN RELOCATION
SCALE: NTS

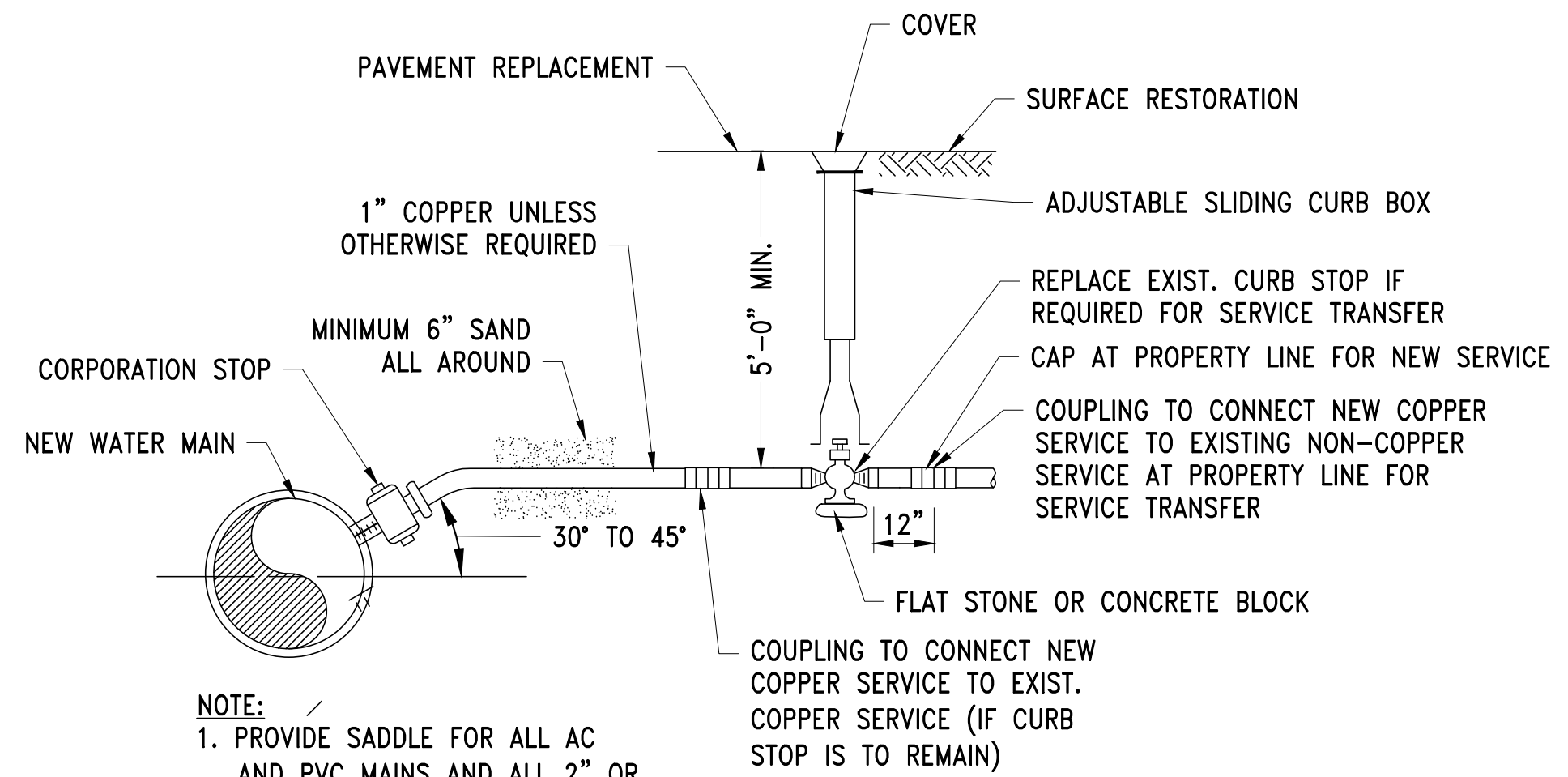
C



NOTE:
1. USE TWO 6" BENDS OR OFFSET
ON LATERAL TO ACHIEVE
REQUIRED HYDRANT ELEVATION IF
NECESSARY.

HYDRANT AND VALVE
SCALE: NTS

B



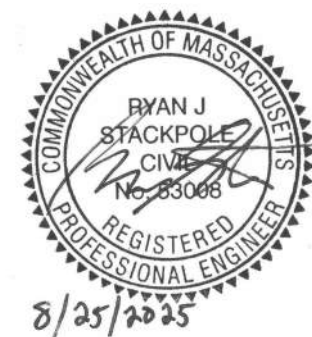
NOTE:
1. PROVIDE SADDLE FOR ALL AC
AND PVC MAINS AND ALL 2" OR
LARGER STOPS.

WATER SERVICE
SCALE: NTS

D

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_C-510-C-515
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
		DRAWN BY:	TJC
		CHECKED BY:	CON
SCALE:	AS NOTED	APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

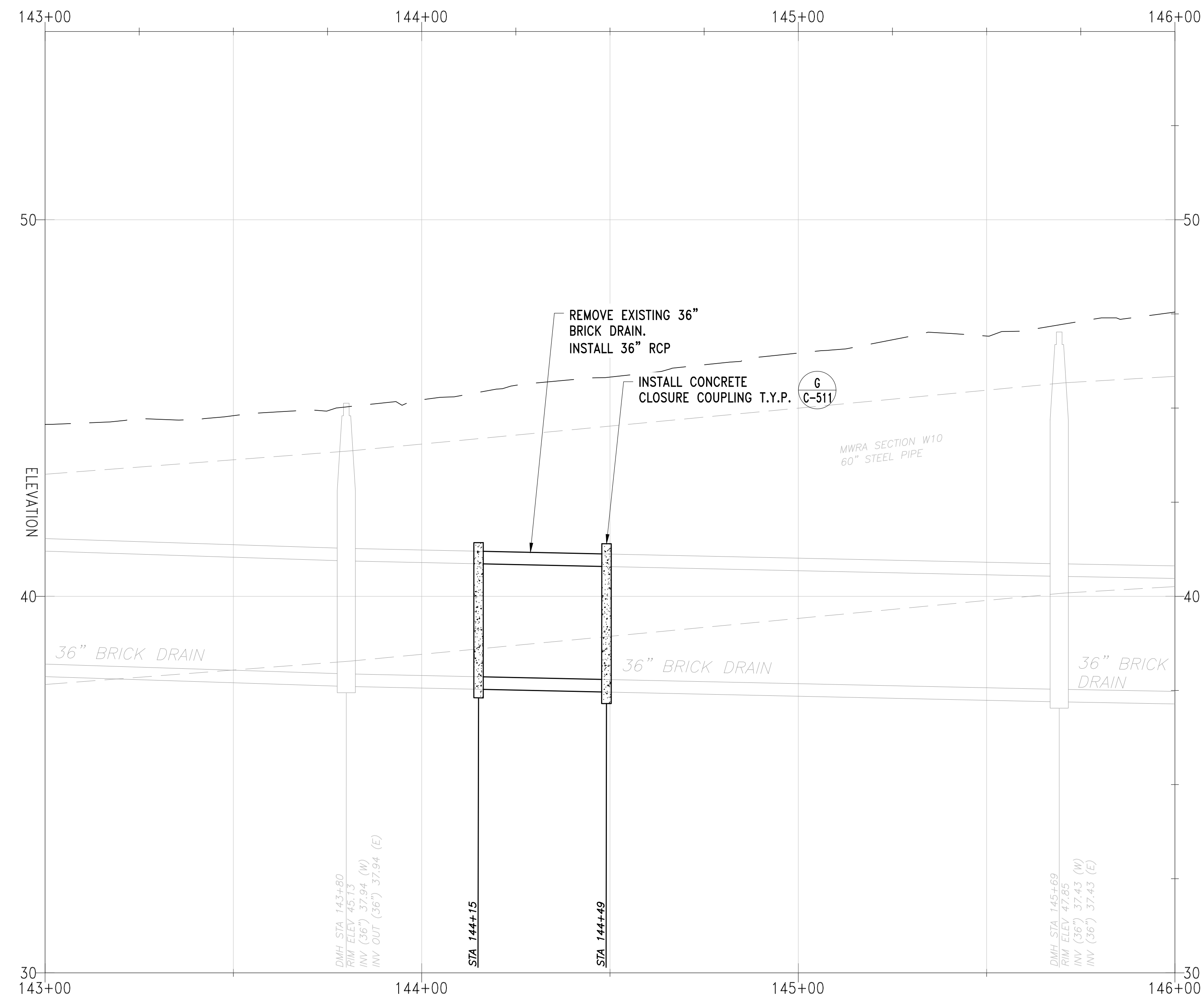
WATER DETAILS

DRAWING NO.

C-512

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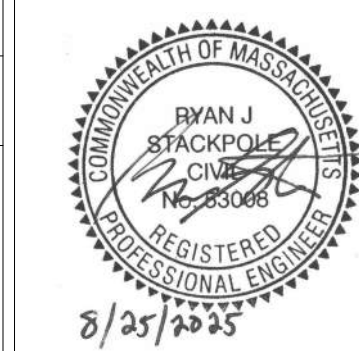
FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CP2\05 Civil\6543_C-510-C-515.dwg LAYOUT NAME: C-513 DRAIN REPLACEMENT DETAIL PLOTTED: Friday, August 22, 2025 - 1:41 pm USER: dnoacrina



FELTON STREET BRICK DRAIN STA 144+32
SCALE: H: 1"=20' V: 1"=2' A

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543	FILE NO. :6543_C-510-C-515
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
	DRAWN BY: TJC
	CHECKED BY: CON
SCALE: AS NOTED	APPROVED BY: RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

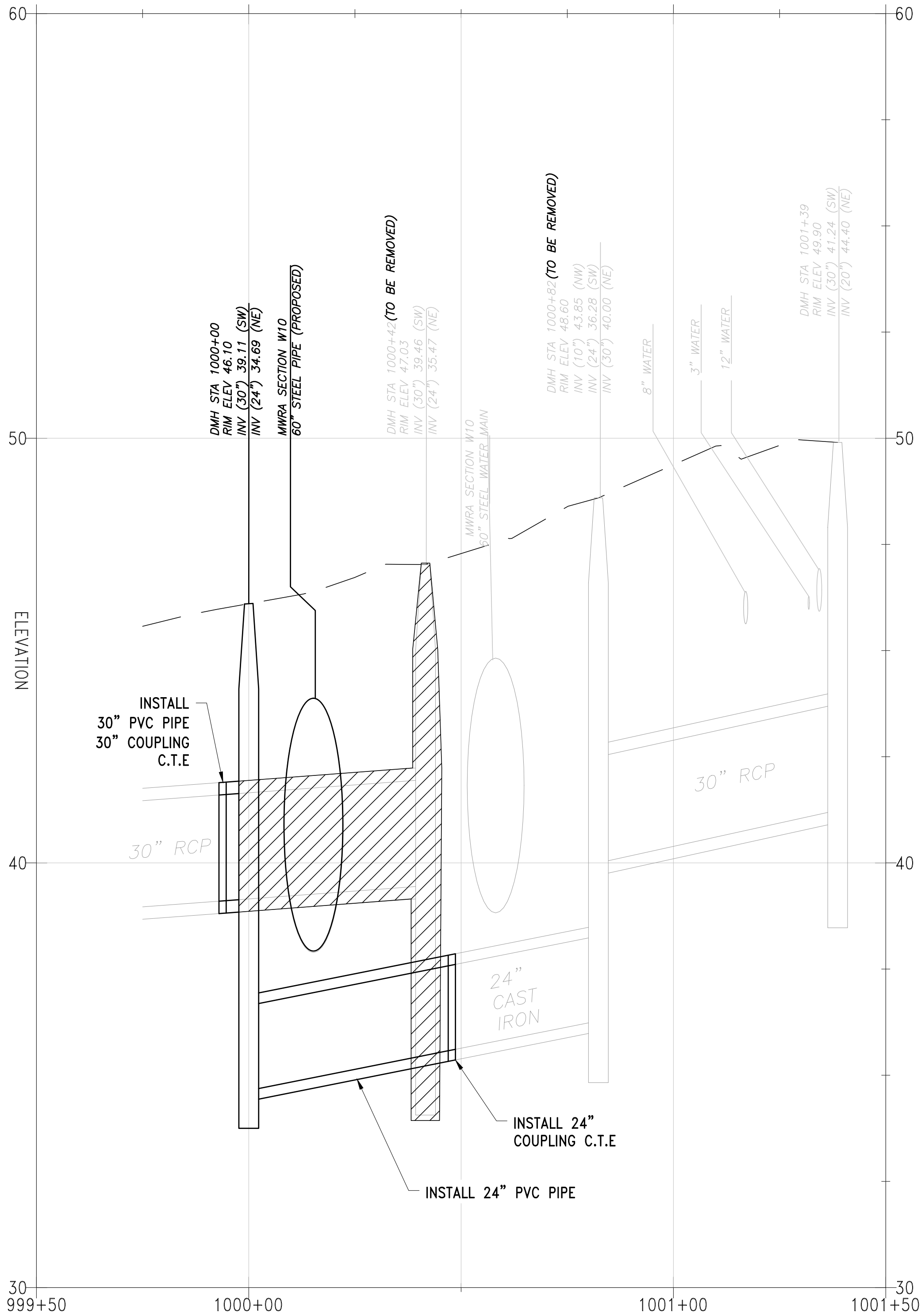
DRAIN REPLACEMENT DETAIL

DRAWING NO.

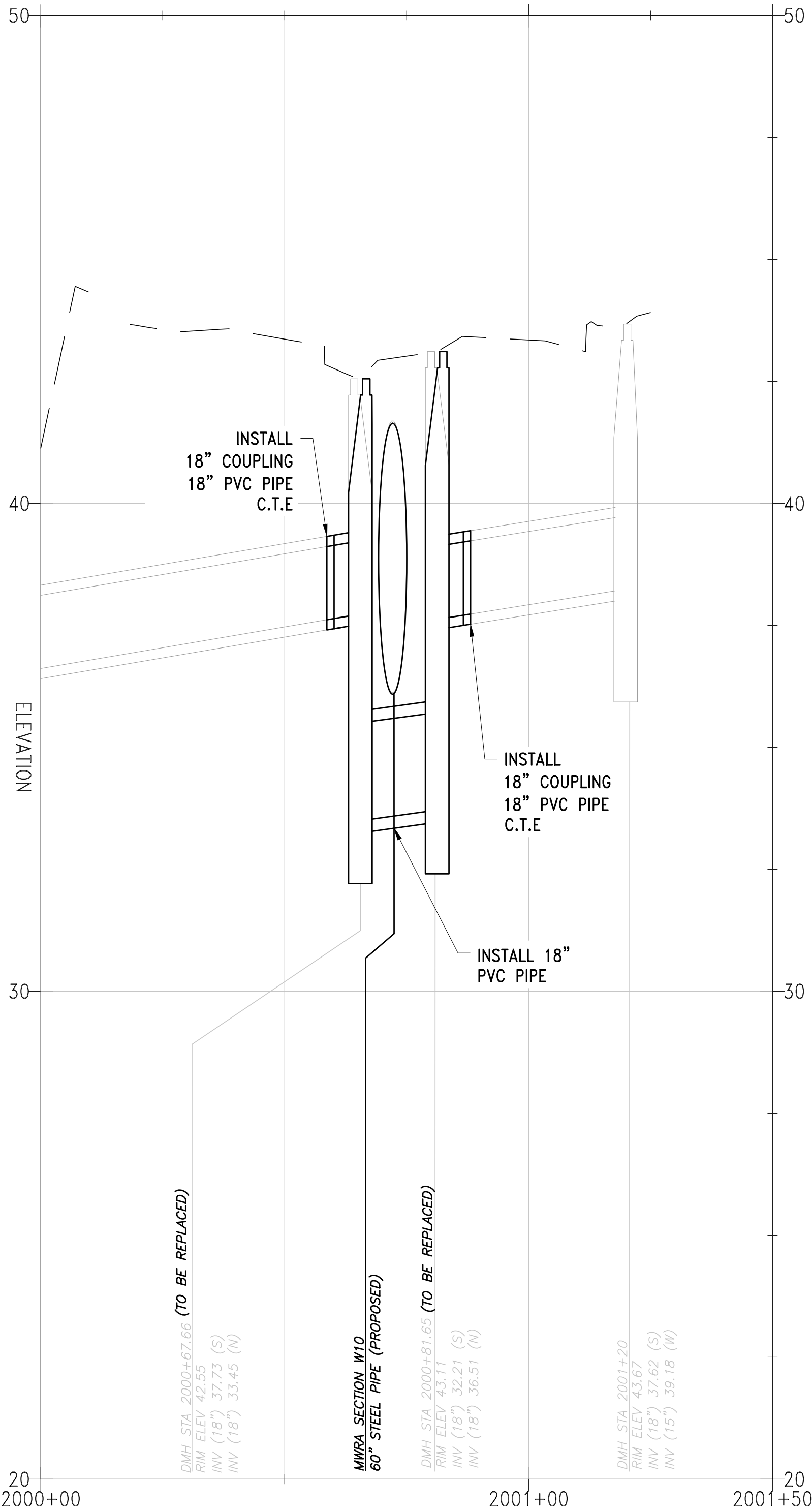
C-513

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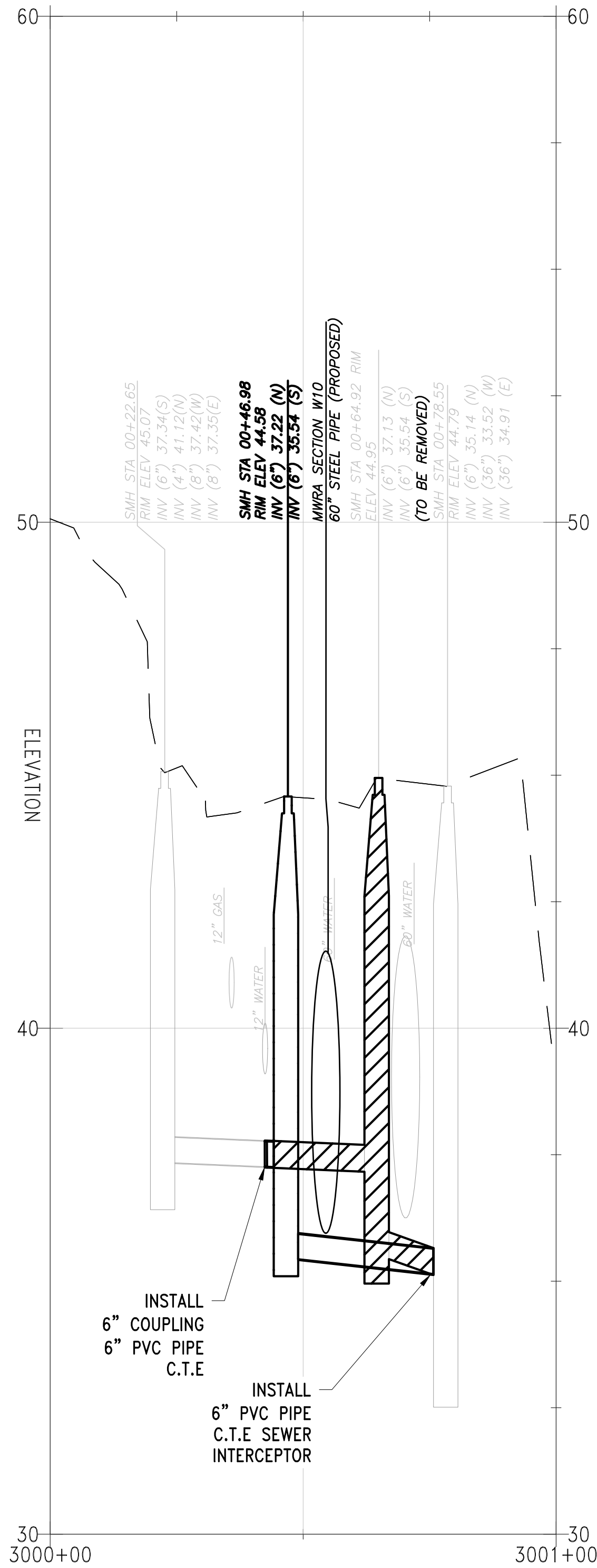
FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\19510185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-510-C-515.dwg LAYOUT NAME: C-514 LOCAL UTILITY PROFILES PLOTTED: Friday, August 22, 2025 - 1:48pm USER: dmacrino



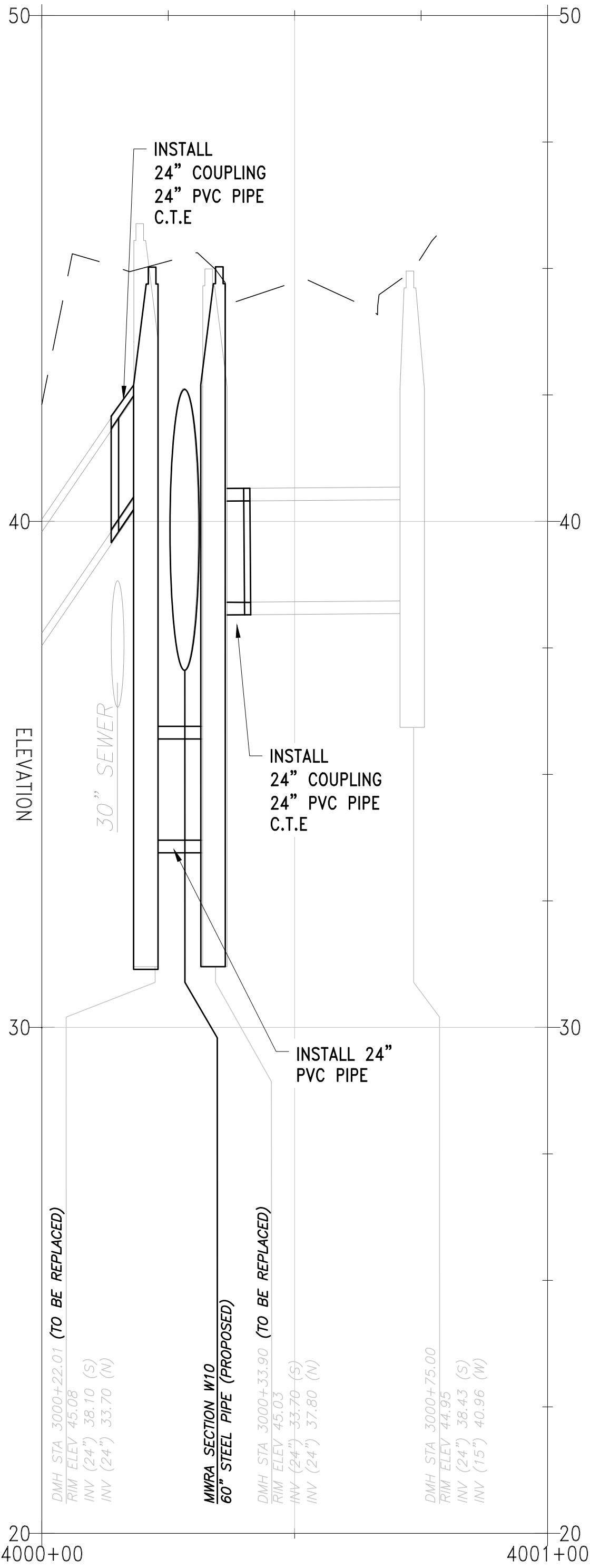
DRAIN SIPHON CROSSING STA 0+36
SCALE: H: 1"=20' V: 1"=2' A



DRAIN SIPHON CROSSING STA 3+33
SCALE: H: 1"=20' V: 1"=2' B



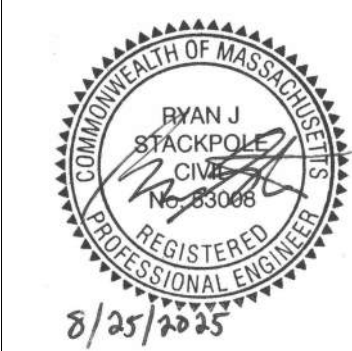
SEWER CROSSING STA 6+10
SCALE: H: 1"=20' V: 1"=2' C



DRAIN SIPHON CROSSING STA 11+33
SCALE: H: 1"=20' V: 1"=2' D

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543	FILE NO. :6543_C-510-C-515
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
	DRAWN BY: TJC
	CHECKED BY: CON
SCALE: AS NOTED	APPROVED BY: RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

LOCAL UTILITY PROFILES

DRAWING NO.

C-514

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SCALE: NTS

SCALE: NTS

SCALE: NTS

SCALE: NTS

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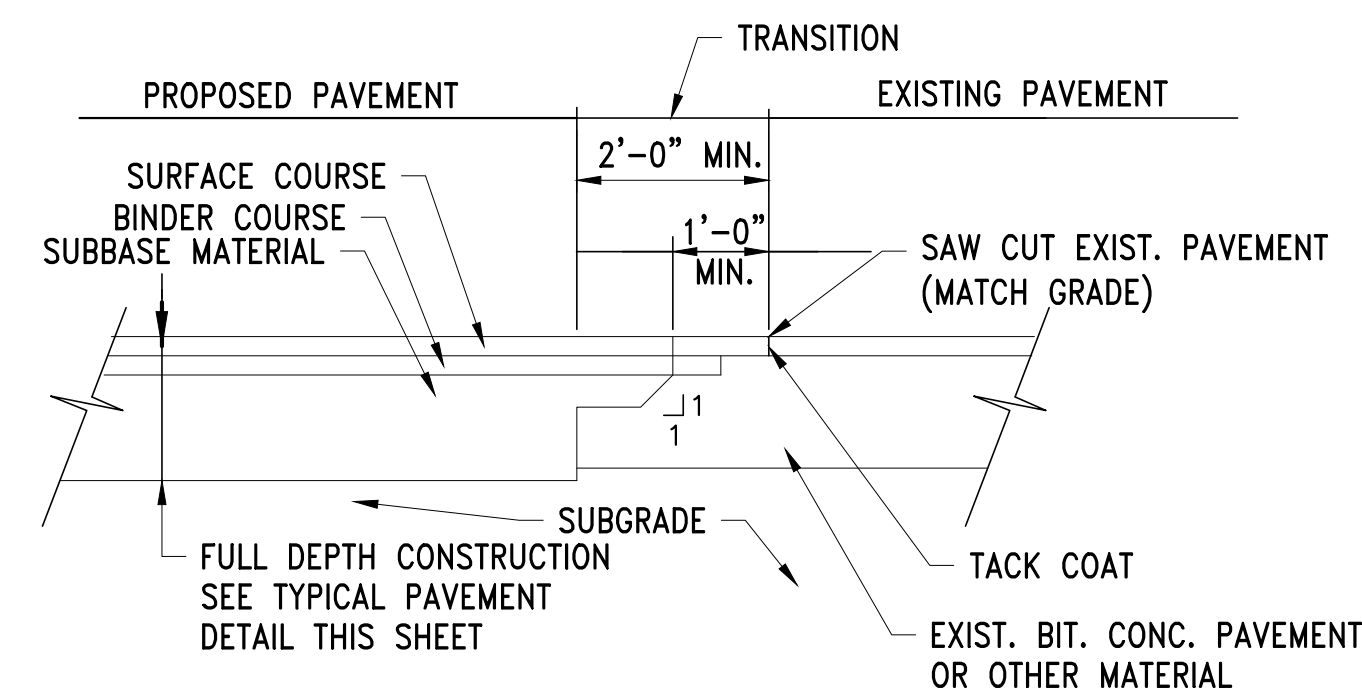
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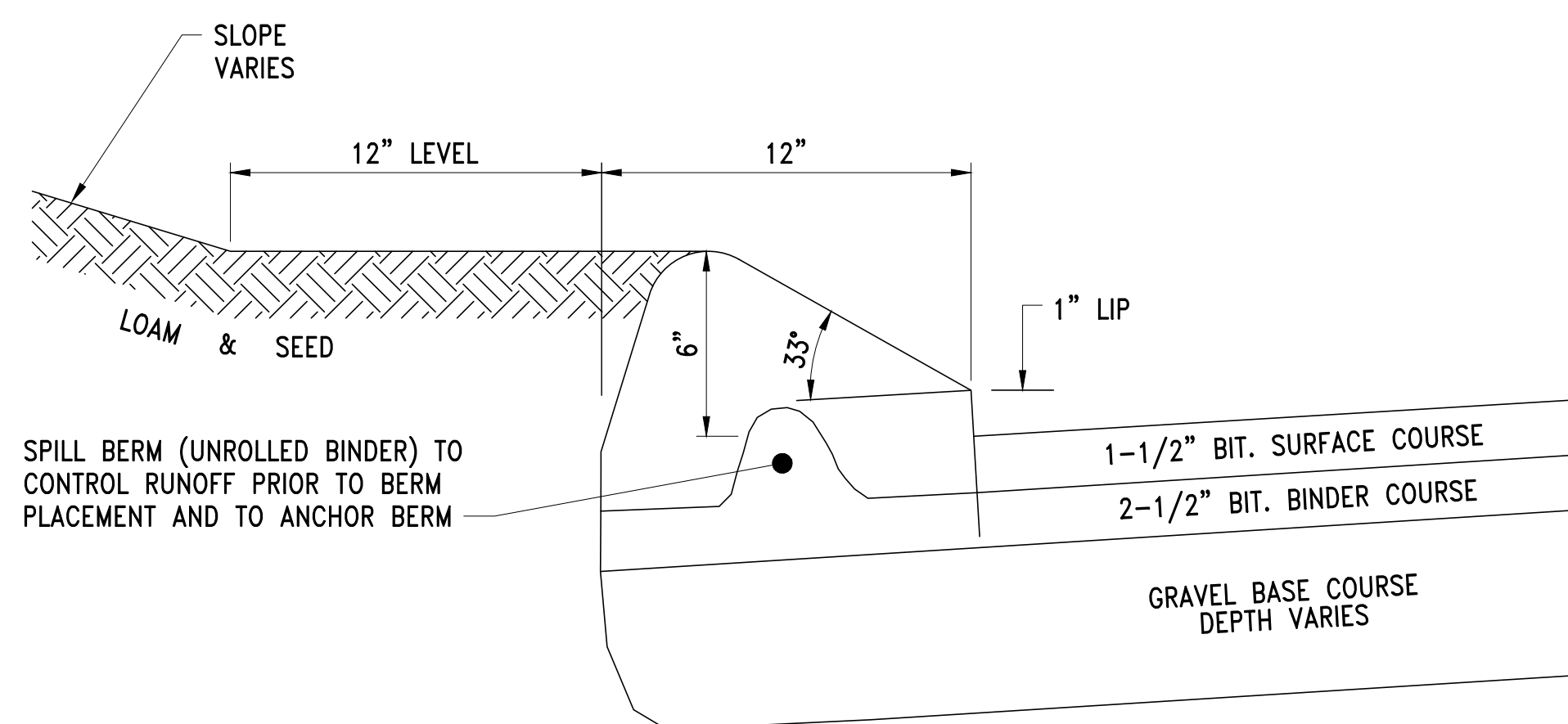
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1. USE OF STEEL PLATES ALLOWED ON A CASE BY CASE BASIS, PENDING WRITTEN APPROVAL BY AFFECTED MUNICIPALITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES OR CLAIMS RESULTS FROM THE USE OF STEEL PLATES.
3. MUTCD COMPLIANT RETROREFLECTIVE ORANGE CONSTRUCTION WARNING SIGNS (48"x48") WITH WORDING "STEEL PLATE AHEAD" SHALL BE INSTALLED IN ADVANCE OF STEEL PLATE INSTALLATION.
4. THE CONTRACTOR SHALL DESIGN AND UTILIZE STEEL PLATES OF ADEQUATE DIMENSIONS AND THICKNESS FOR INTENDED USE OF VEHICLE LOADING, MAXIMUM ALLOWABLE DEFLECTION SHALL BE 0.025". IRON SPIKE FASTENERS SHALL BE INSTALLED AROUND THE PERIMETER OF THE STEEL PLATE

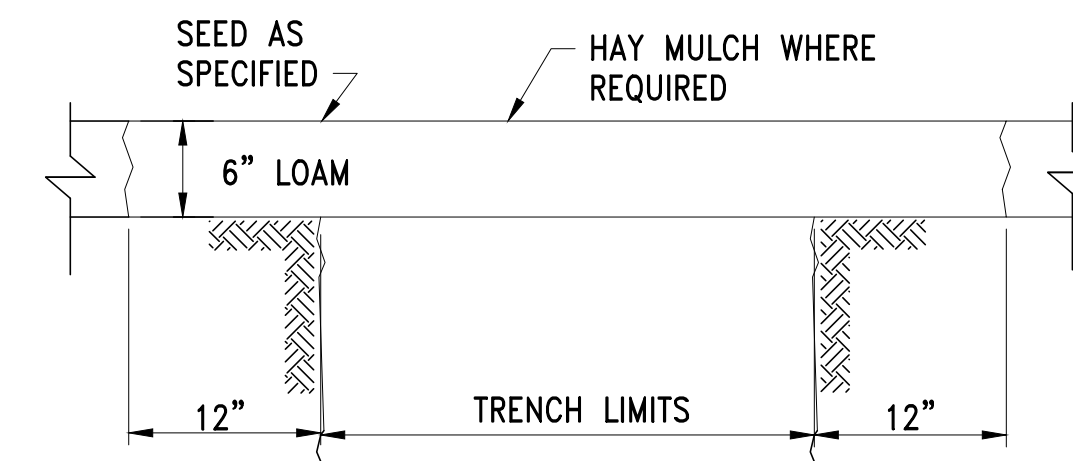
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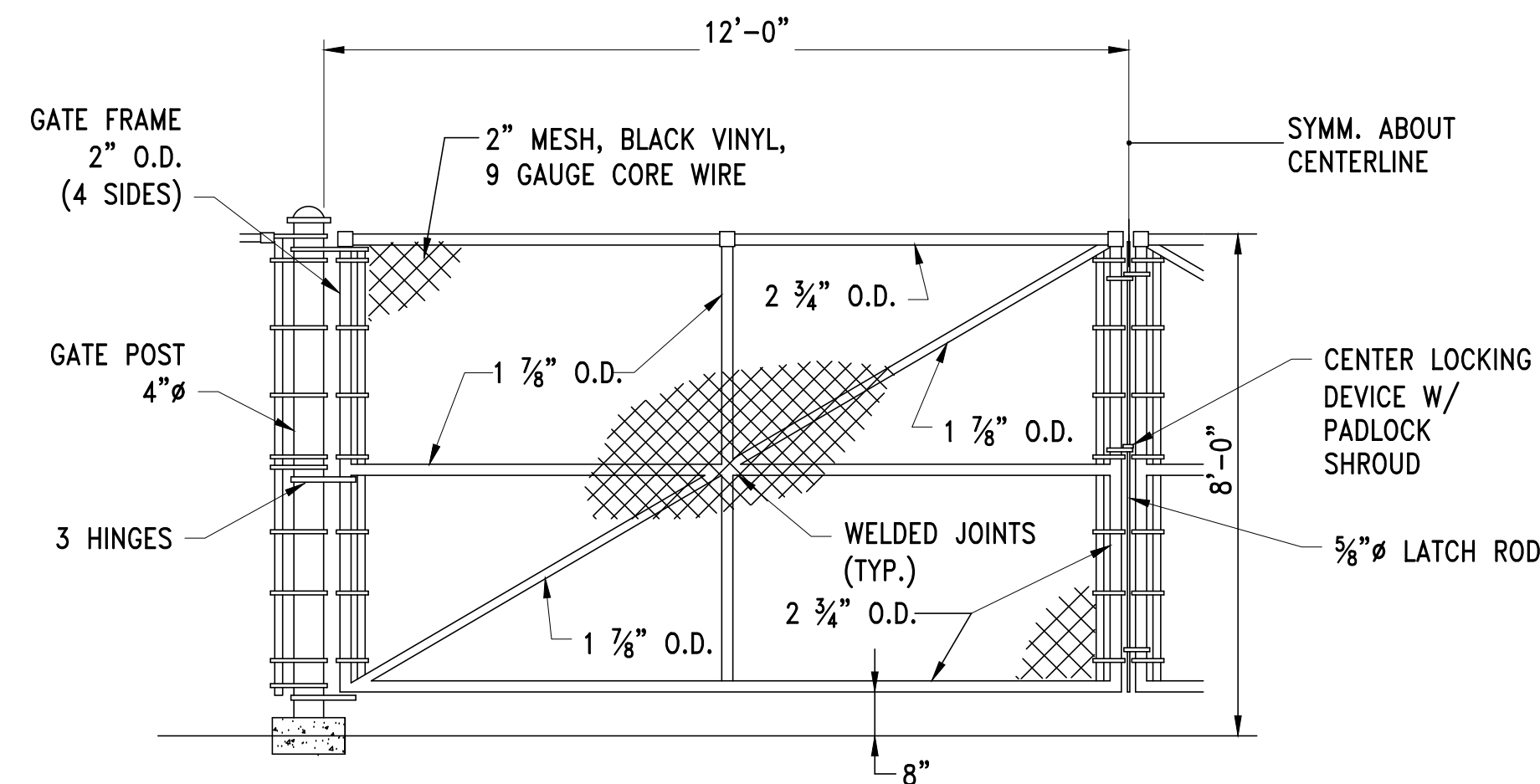
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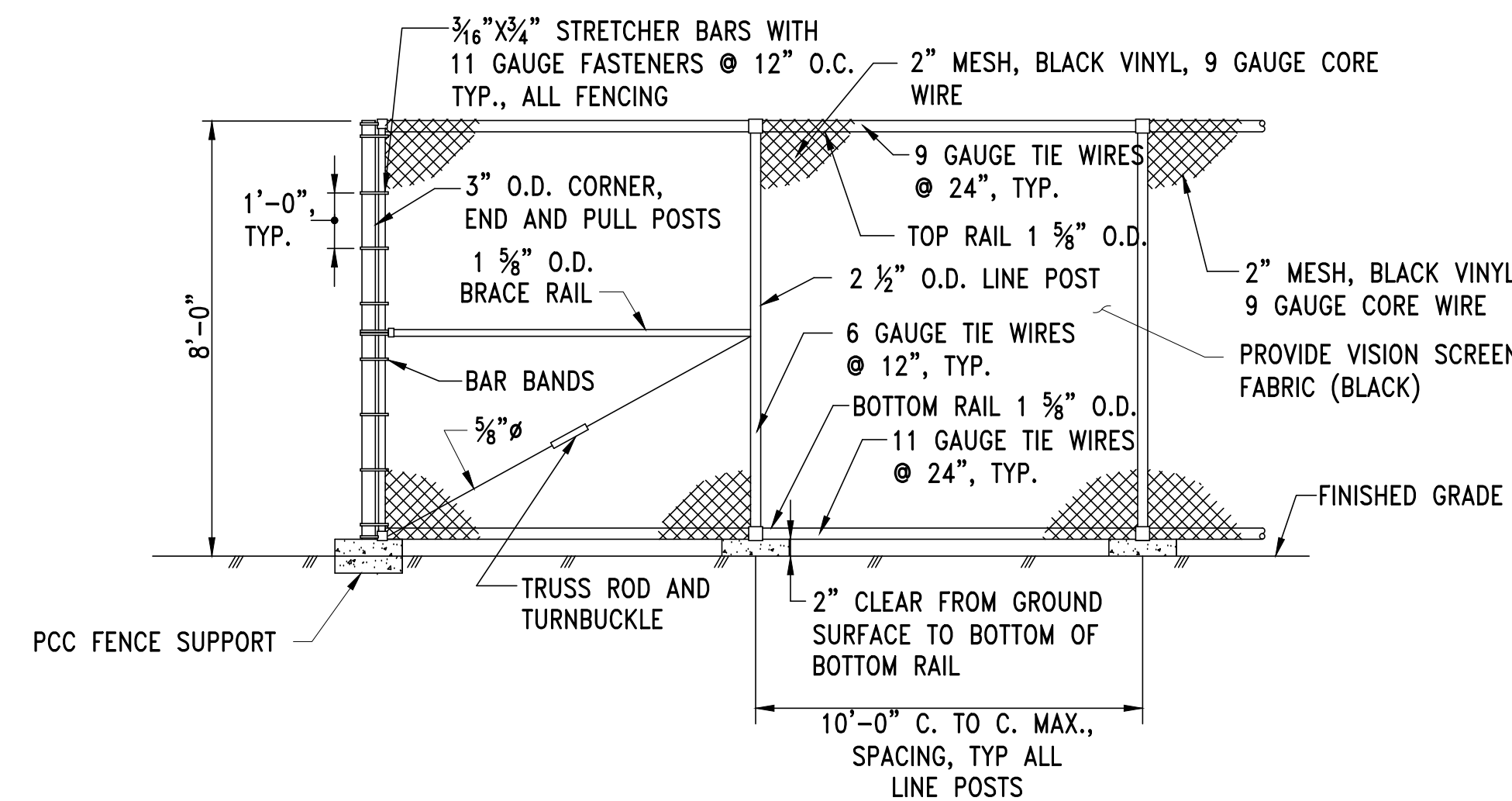
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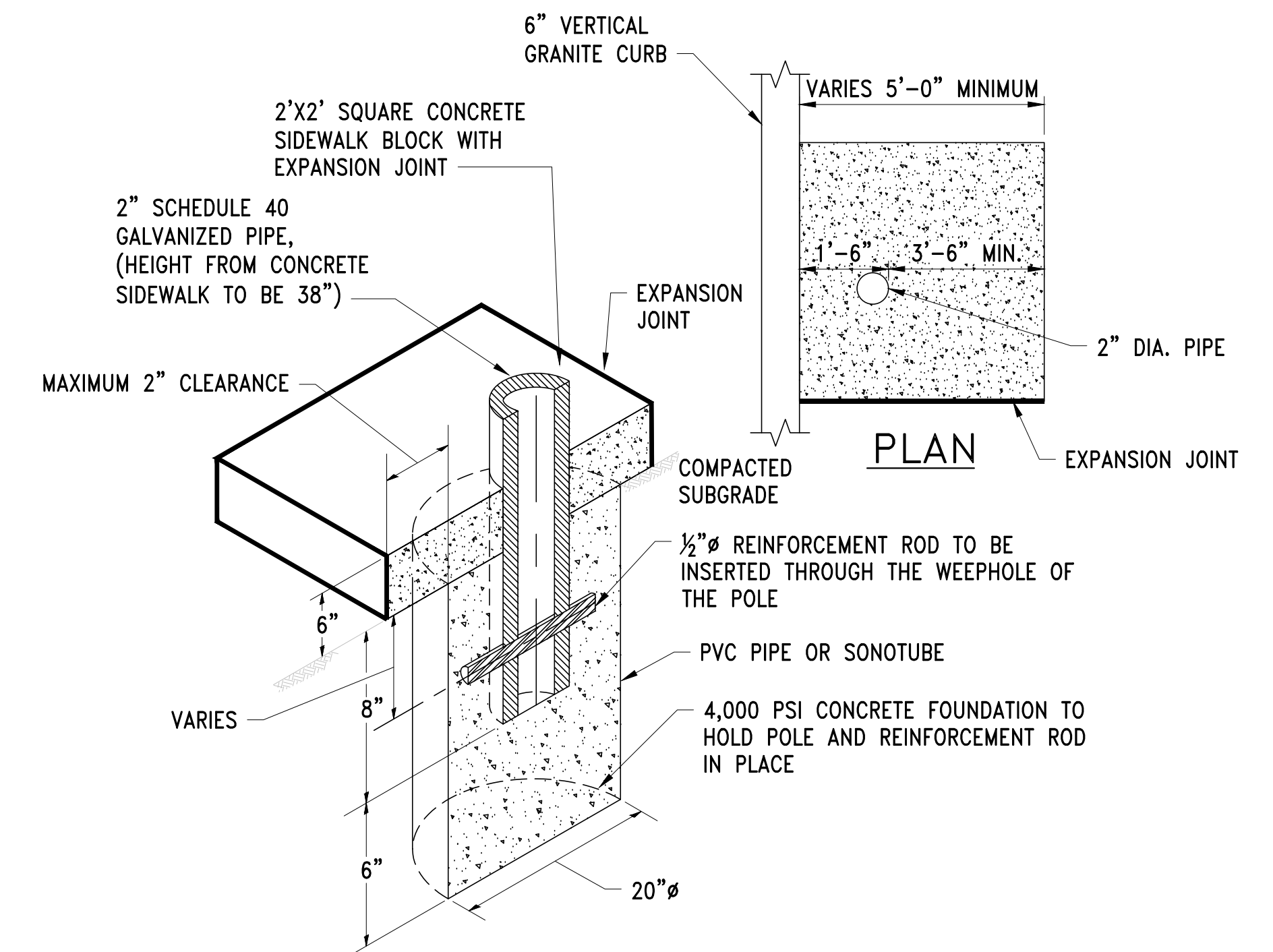
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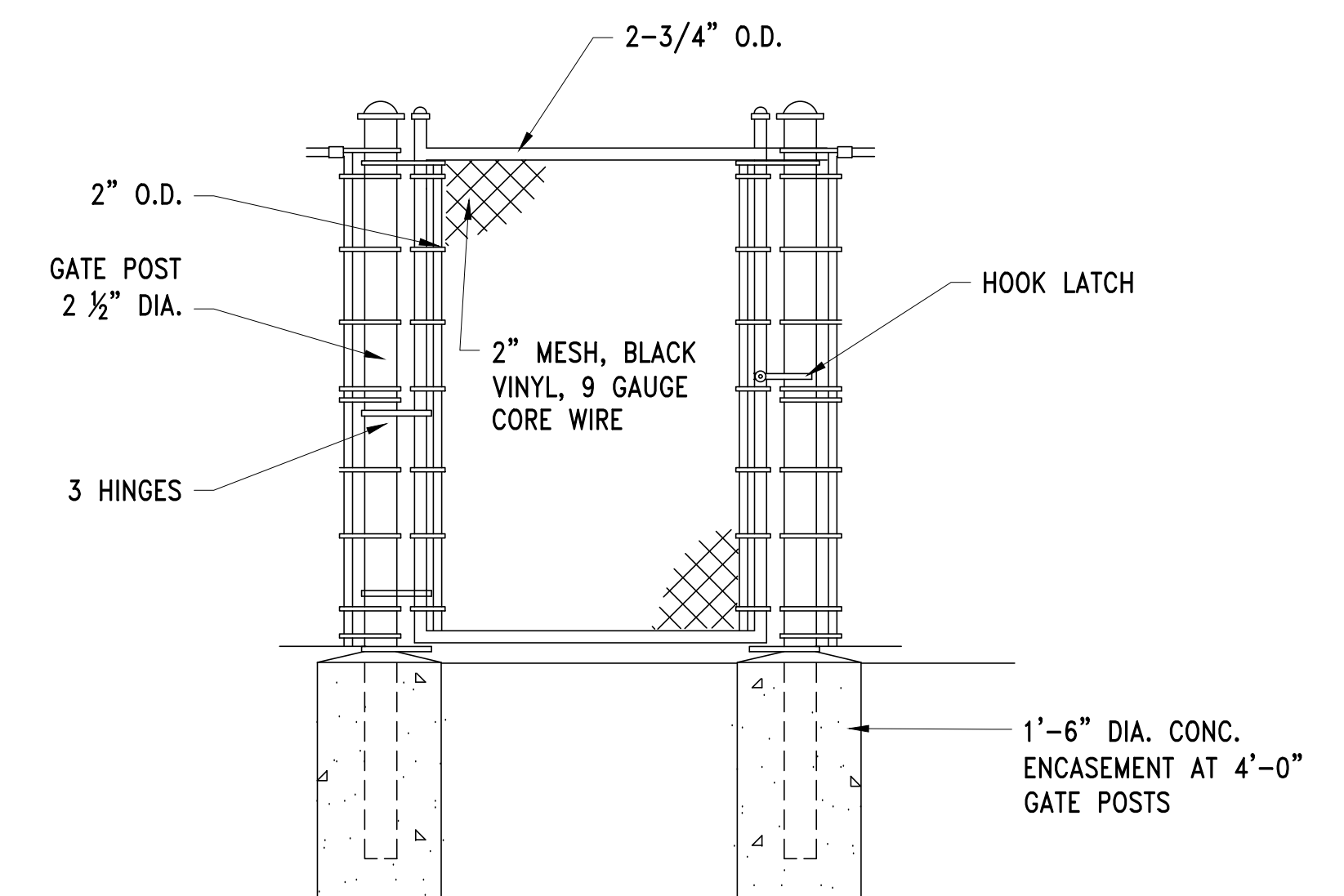
SCALE: NTS



SCALE: NTS



SCALE: NTS



SCALE: NTS

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543		FILE NO. : 6543_C-516-C-518	
ACCESSION NO. : ----		SECTION NO. : W10	
DATE: AUGUST 2025		DESIGNED BY: RJS	
		DRAWN BY: TJC	
		CHECKED BY: CON	
SCALE: AS NOTED		APPROVED BY: RJS	



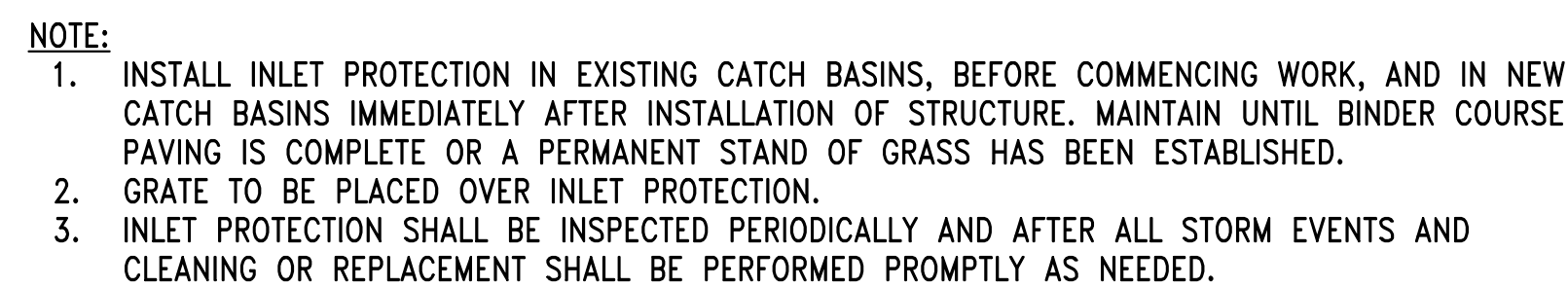
PREPARED BY



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SURFACE RESTORATION DETAILS 3

1 OF 83



CONTRACT NO. :	6543	FILE NO. :	6543_C-516-C-518
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	RJS
		DRAWN BY:	TJC
		CHECKED BY:	CON
SCALE:	AS NOTED	APPROVED BY:	RJS



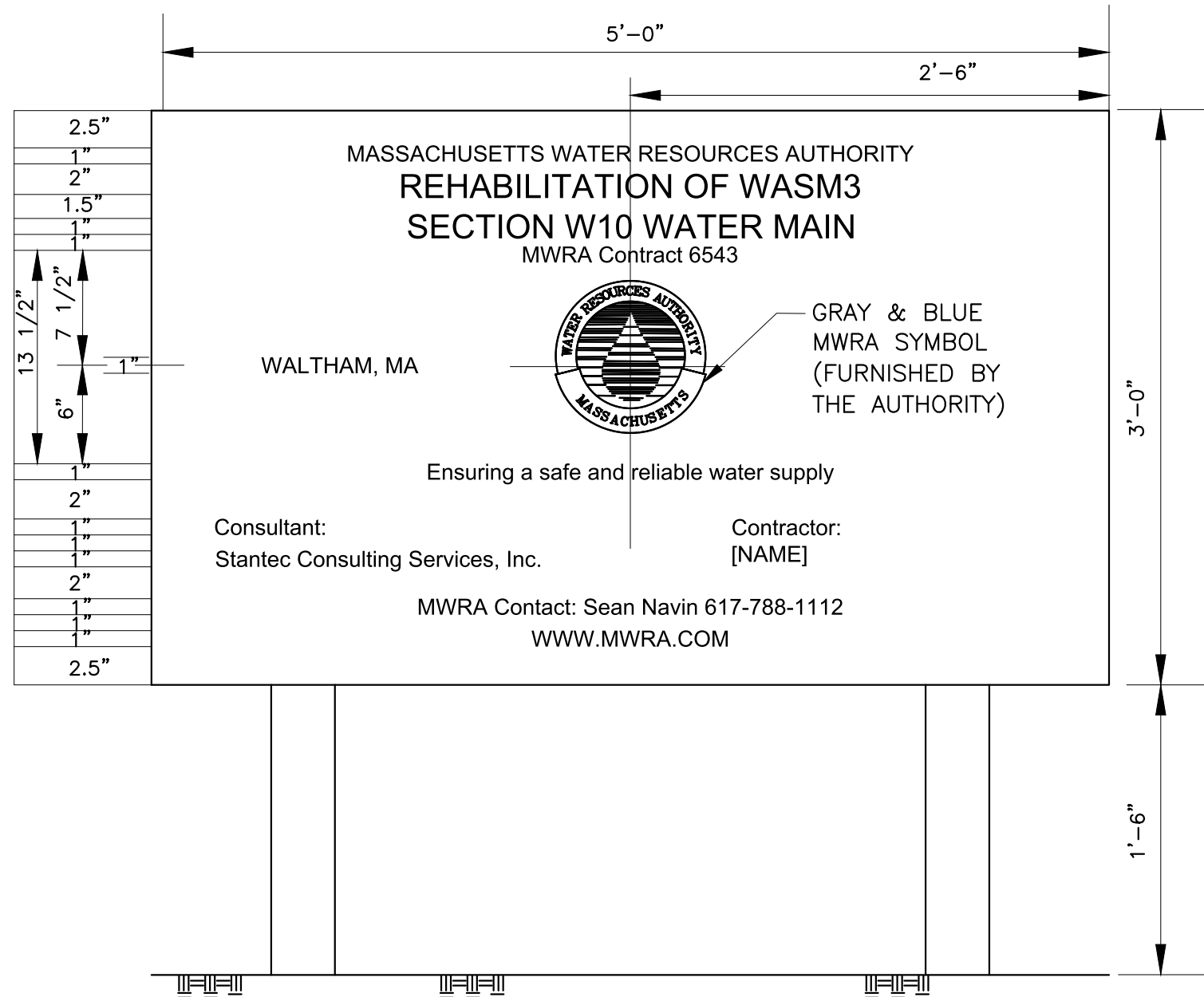
PREPARED BY



DRAWING NO.

42 OF 83

FILE NAME: \\US0552-PFSS01\workgroup\1951\active\195150185\CAD\2.2 Final Design\CPA\05 Civil\6543_C-518.dwg LAYOUT NAME: C-519 PROJECT IDENTIFICATION DETAILS PLOTTED: Friday, August 22, 2025 - 1:55pm USER: dmecrino



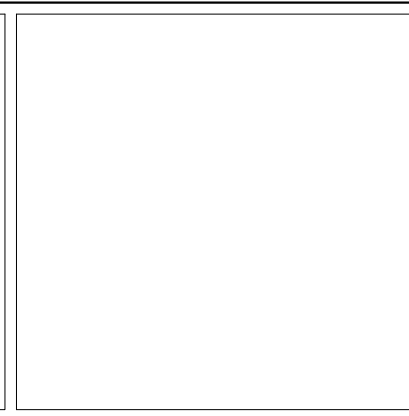
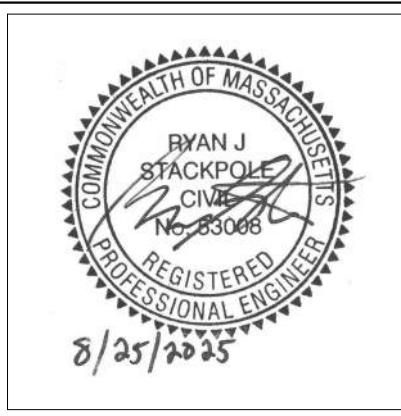
NOTES:

1. STRUCTURE AND FRAMING: MAY BE NEW OR USED, WOOD OR METAL, IN SOUND CONDITION SUITABLE FOR SPECIFIED FINISH.
2. SIGN SURFACES SHALL BE EXTERIOR SOFTWOOD PLYWOOD WITH MEDIUM DENSITY OVERLAY, STANDARD LARGE SIZES TO MINIMIZE JOINTS. SIGN THICKNESS SHALL BE AS REQUIRED BY STANDARDS TO SPAN FRAMING MEMBERS AND TO PROVIDE EVEN, SMOOTH SURFACE WITHOUT WAVES OR BUCKLES.
3. HARDWARE SHALL BE WROUGHT, GALVANIZED.
4. APPLY A COAT OF WHITE ALKYD PRIMER WOOD OIL TO ENTIRE WOODWORK OF SIGN.
5. GIVE TWO (2) COATS OF WHITE EXTERIOR LATEX PAINT TO SIGN INCLUDING FRAMEWORK.

PROJECT IDENTIFICATION SIGN A
SCALE: NTS

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. : 6543	FILE NO. : 6543_C-518
ACCESSION NO. : ----	SECTION NO. : W10
DATE: AUGUST 2025	DESIGNED BY: RJS
	DRAWN BY: TJC
	CHECKED BY: CON
SCALE: AS NOTED	APPROVED BY: RJS





MASSACHUSETTS WATER RESOURCES AUTHORITY

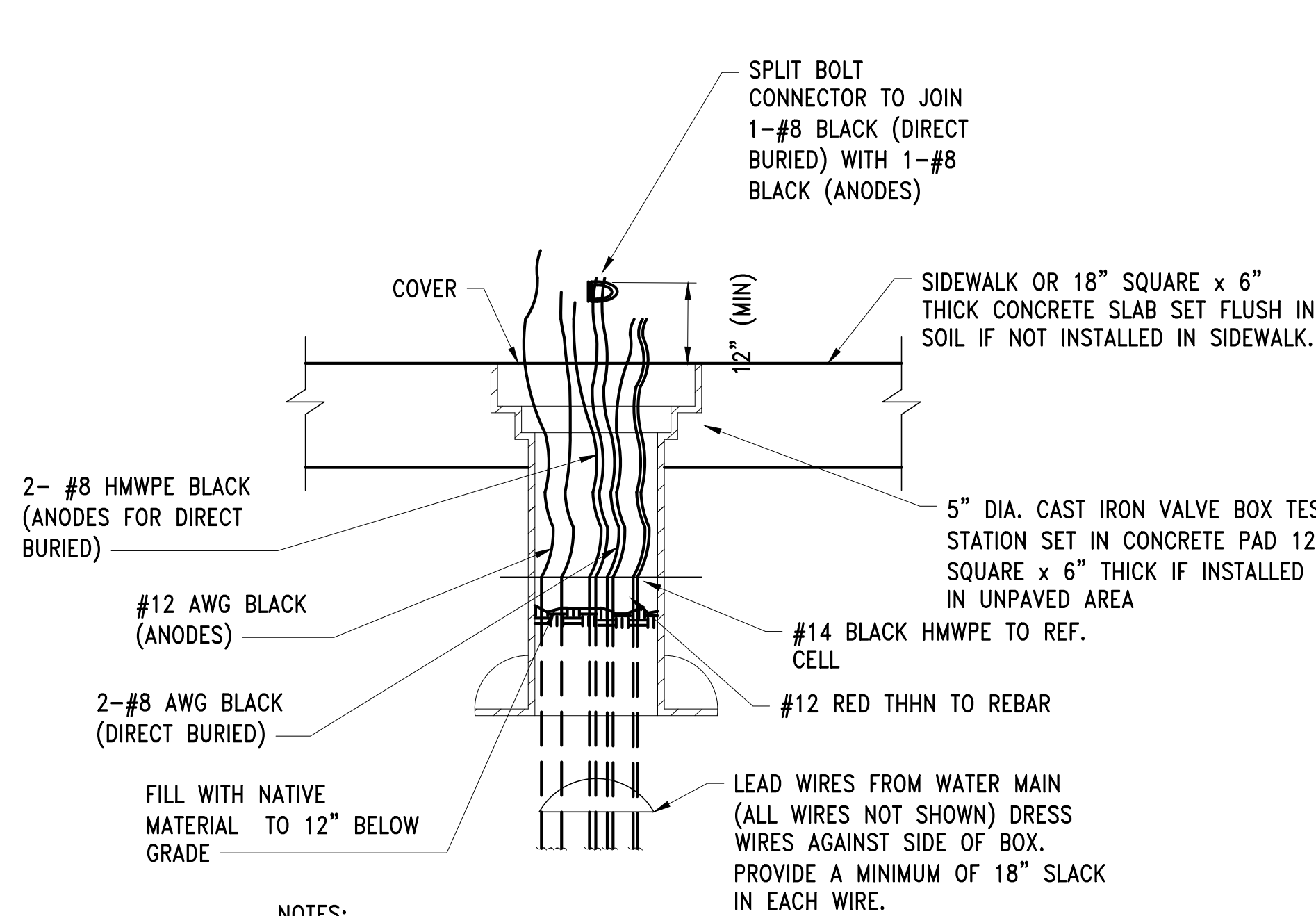
PREPARED BY :
 **Stantec**

45 BLUE SKY DRIVE, 3RD FLOOR
BURLINGTON, MA 01803
www.stantec.com

WESTON AQUEDUCT SUPPLY MAIN 3 REHABILITATION OF WATER MAINS SECTION W10
PROJECT IDENTIFICATION DETAILS

DRAWING NO. C-519
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FILE NAME: \\US0552-PPFSS01\workgroup\1951\active\195150185\CAD\2.2 Final Design\CPA\05 Civil\6543_CM-501.dwg LAYOUT NAME: CM-501 CATHODIC PROTECTION DETAILS PLOTTED: Friday, August 22, 2025 - 1:56pm USER: dmarzina

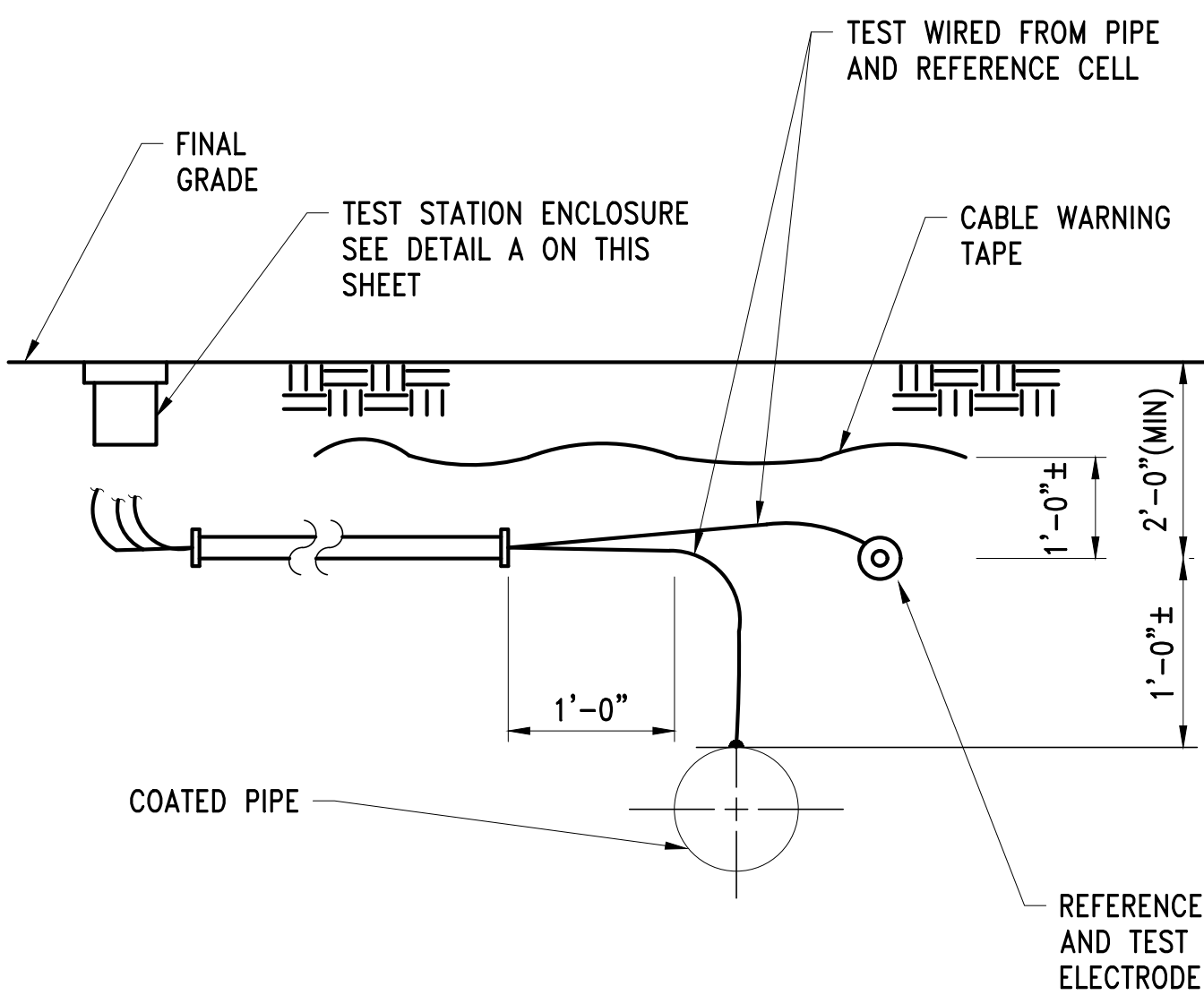


NOTES:

1. ATTACH TEST LEADS AT POINTS INDICATED ON PLAN AND PROFILE DRAWINGS AND DETAILS.
2. OFFSET TEST STATION ENCLOSURES APPROX. PERPENDICULAR TO WATER MAIN INSTALL ENCLOSURES OFF-ROAD IN NEAREST SIDEWALK, WHERE PRESENT, OR IN DIRT. DO NOT INSTALL ENCLOSURES IN MEDIANS. SEE DETAIL B THIS SHEET.

TYPICAL TEST STATION ENCLOSURE (A)

SCALE: NTS

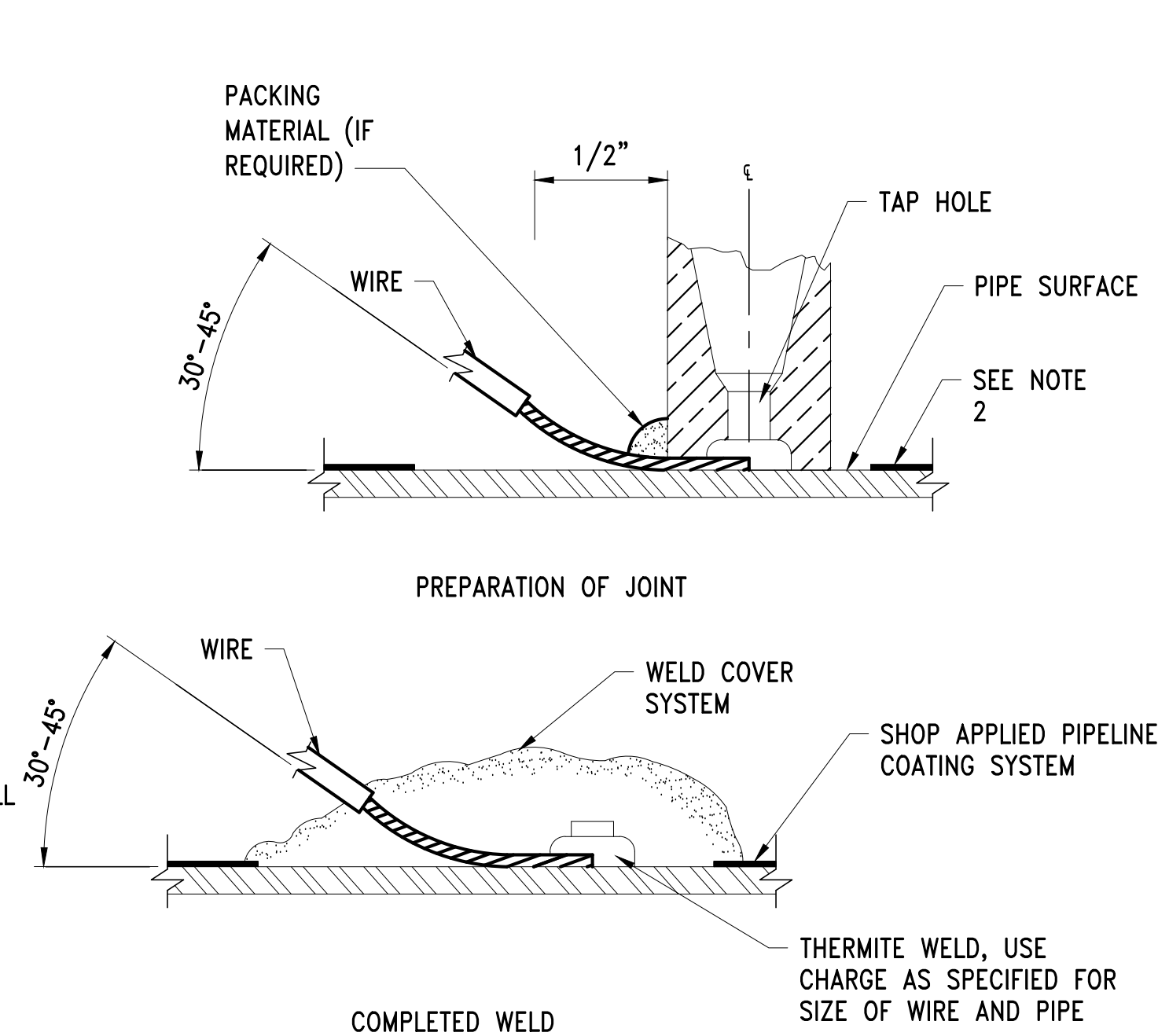


NOTES:

1. ANODES, REFERENCE CELLS AND REBAR ELECTRODES SHALL BE PLACED IN SURROUNDING SOIL AND NOT IN CONCRETE OR CONTROLLED DENSITY FILL.

TYPICAL METHOD FOR OFF-SETTING TEST STATION (B)

SCALE: NTS

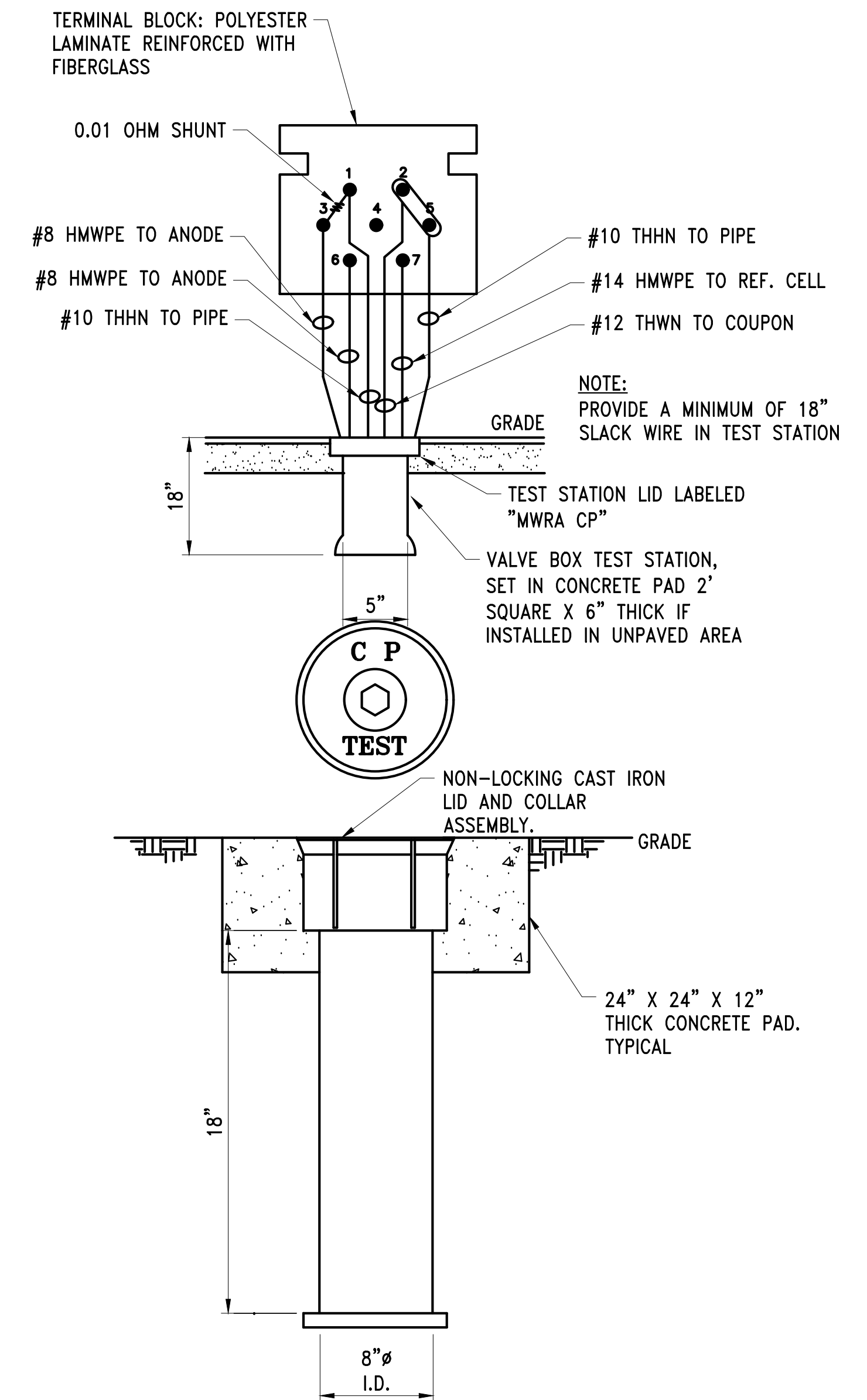


NOTES:

1. END OF CABLE SHALL NOT PASS CENTER LINE OF MOLD.
2. REMOVE MINIMUM AMOUNT OF COATING REQUIRED FOR PLACEMENT OF CRUCIBLE ON PIPE. COATING TO BE REMOVED BY USE OF TORCH AND KNIFE. AFTER THERMITE WELD HAS COOLED, REMOVE SLAG. COAT EXPOSED AREAS SUCH AS THE THERMITE WELD, PIPE SURFACE AND COPPER CABLE.

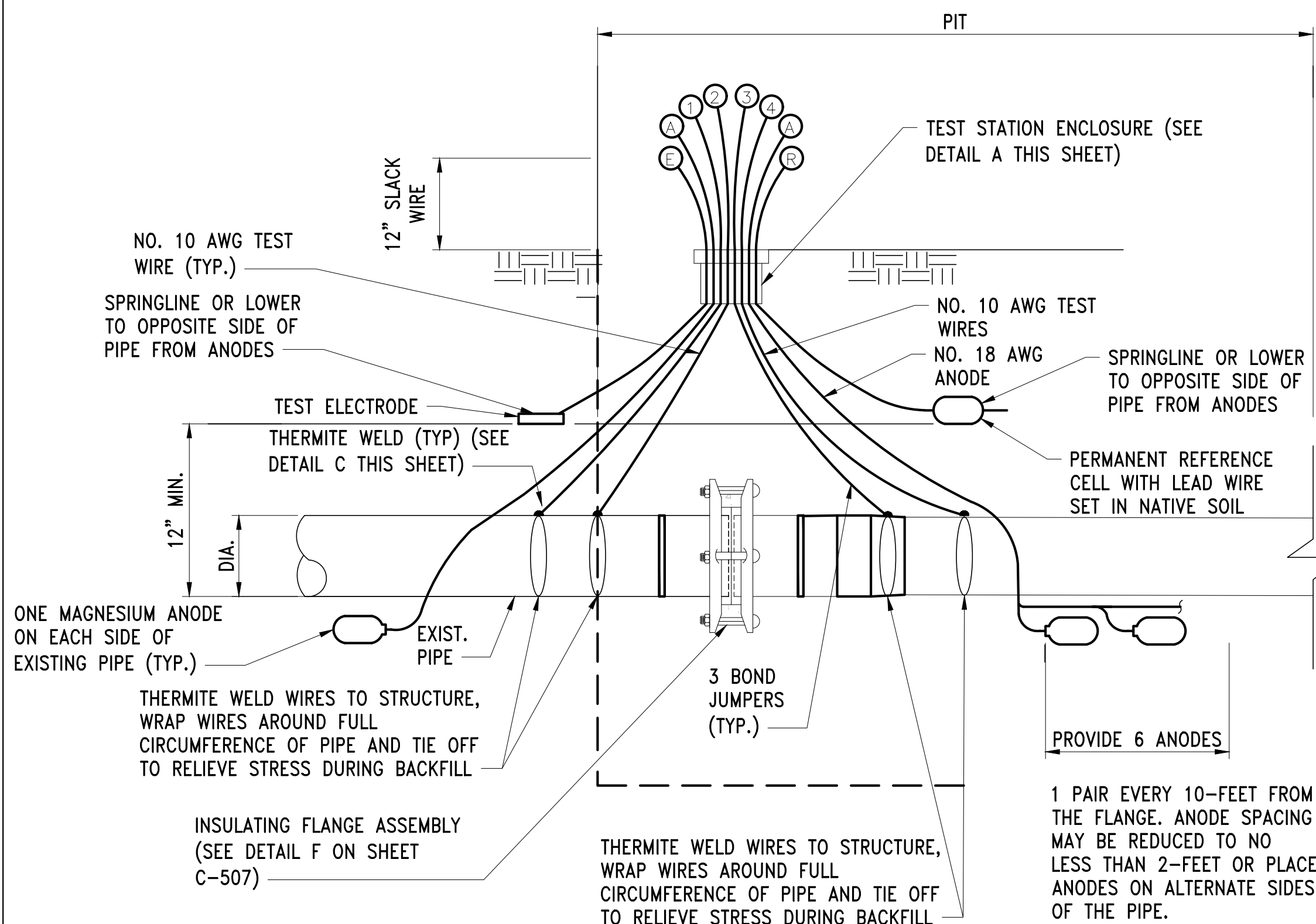
TYPICAL EXOTHERMIC WELD (D)

SCALE: NTS



CP TEST STATION (F)

SCALE: NTS



WASM 3 FOR SECTION W10 (E)

SCALE: NTS

NO.	DATE	BY	CHK'D	REVISION

CONTRACT NO. :	6543	FILE NO. :	6543_CM-501
ACCESSION NO. :	----	SECTION NO. :	W10
DATE:	AUGUST 2025	DESIGNED BY:	SP
SCALE:	AS NOTED	DRAWN BY:	SP
		CHECKED BY:	CON
		APPROVED BY:	RJS



MASSACHUSETTS WATER RESOURCES AUTHORITY

PREPARED BY :



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WESTON AQUEDUCT SUPPLY MAIN 3
REHABILITATION OF WATER MAINS
SECTION W10

CATHODIC PROTECTION DETAILS

DRAWING NO.

CM-501

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