

Wellsville-Mendon Conservation District

Design Standards and Standard Drawings

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STANDARD DRAWINGS DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITIES THAT WILL BE ACCEPTABLE TO WMCD. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH CROSSING IS DESIGNED PROPERLY.

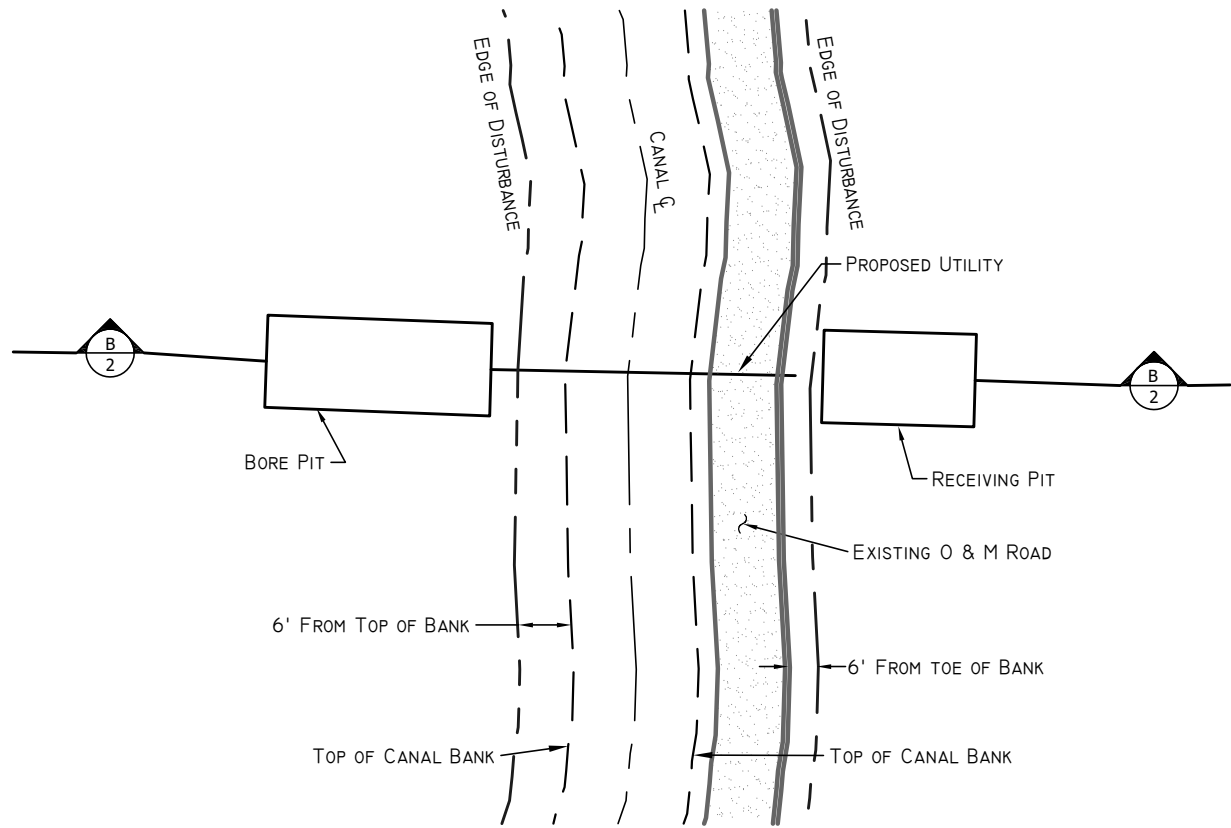
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WELLSVILLE-MENDON
CONSERVATION DISTRICT

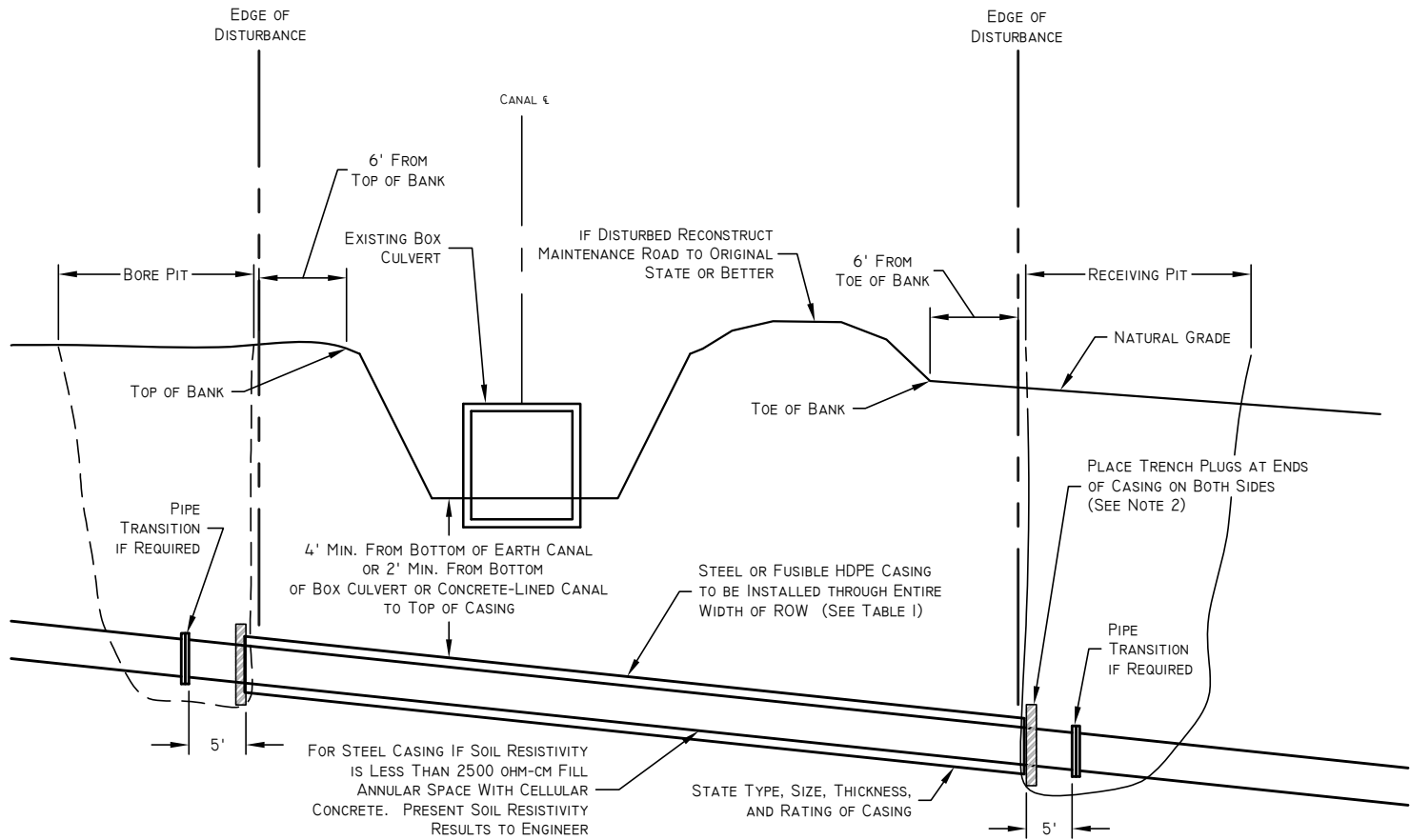
DESIGNER:		VINCE HOGGE	PROJECT LEADER:		CHAD BROWN
DRAFTSMAN:		MATT GURR	PRINT DATE:		AUGUST 7, 2026
NO.	DATE	INTS	REVISIONS		
			DESCRIPTION		

WELLSVILLE-MENDON CONSERVATION DISTRICT		STANDARD DRAWINGS	
		COVER SHEET	
JOB NO.		01-Cover Sheet.dwg	
		03/21/2021 Wellsville Mendon Canal Reviews 2021 Standard Drawings	
		LAYOUT: Cover	



A BORING UNDER CANAL PLAN VIEW
NTS

- NOTES:
1. BORE PIT COMPACTION TO BE 95% STANDARD PROCTOR DENSITY.
 2. TRENCH PLUGS ARE TO BE PLACED IN LOCATIONS SHOWN ON BOTH SIDES FOR WIDTH OF TRENCH AND 12 INCHES ABOVE AND BELOW CASING PIPES AND A MINIMUM THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE, OR SHALL BE A FLOWABLE FILL CONCRETE.
 3. STORMWATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK SITE.
 4. WATERLINE PIPE INSIDE OF CASING SHALL HAVE RESTRAINING JOINTS.
 5. CASING MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING CANAL BOX CULVERT OR CONCRETE-LINED CANAL AND 4 FEET BELOW EARTHEN CANAL BOTTOM. IN AREAS OF SAND OR COBBLES, THIS DISTANCE MAY NEED TO BE INCREASED.
 6. BORE PITS MUST BE PLACED 6' FROM TOE OF CANAL BANK ON DOWNHILL SIDE AND 6' FROM THE TOP OF CANAL BANK ON UPHILL SIDE.
 7. CARRIER PIPE SHALL HAVE ADEQUATE CASING SPACERS PER MANUFACTURERS SPECIFICATIONS.
 8. CROSSING MUST BE PERPENDICULAR TO CANAL UNLESS APPROVED BY ENGINEER.

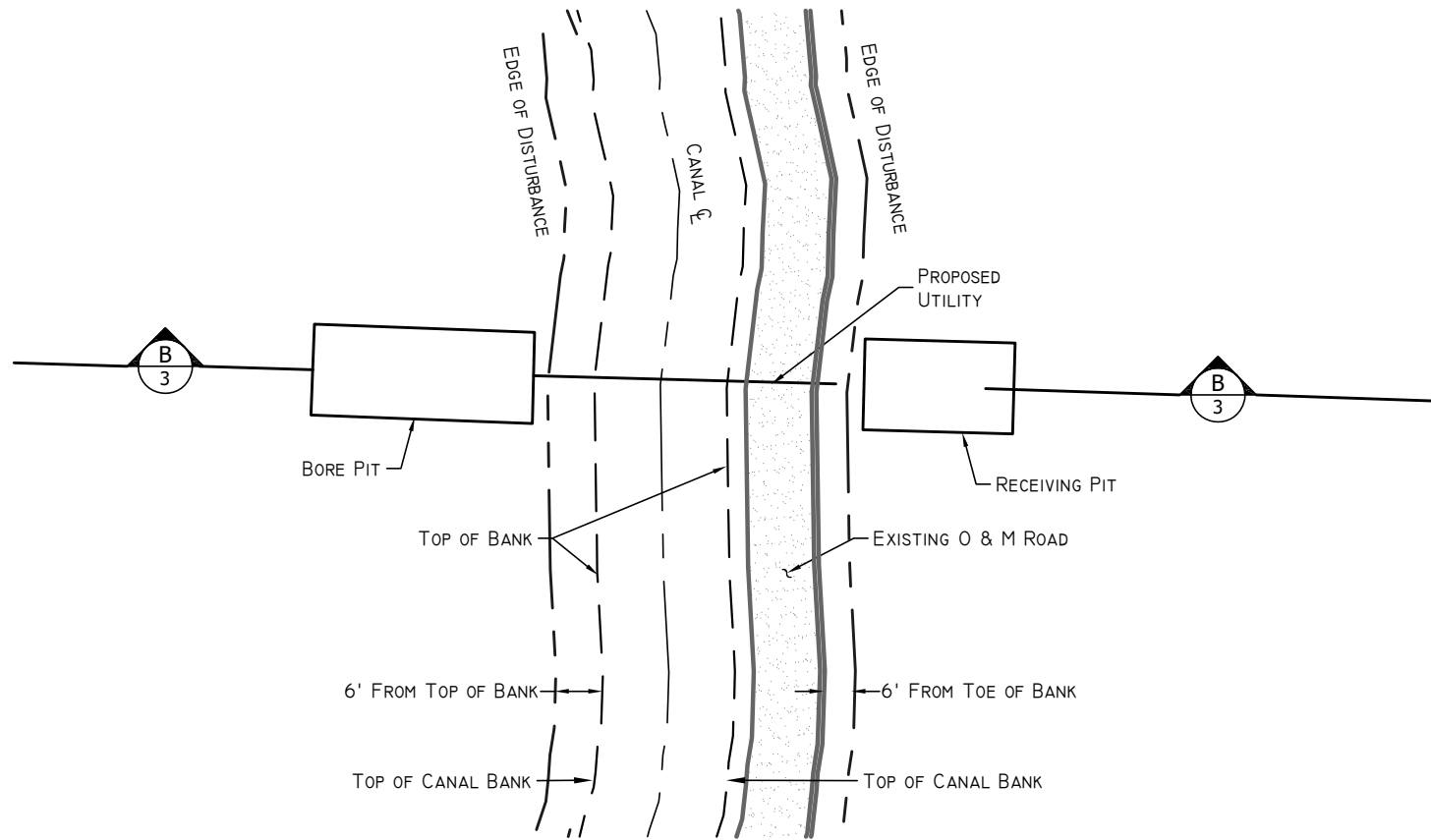


B BORE CASING CROSS SECTION
NTS

TABLE I
STEEL CASING THICKNESS

DIAMETER (INCHES)	MINIMUM WALL THICKNESS (INCHES)
12"	0.188"
14" - 16"	0.312"
18"	0.312"
20" - 22"	0.375"
24" - 26"	0.438"
28" - 32"	0.500"
34" - 36"	0.562"
38" - 42"	0.562"

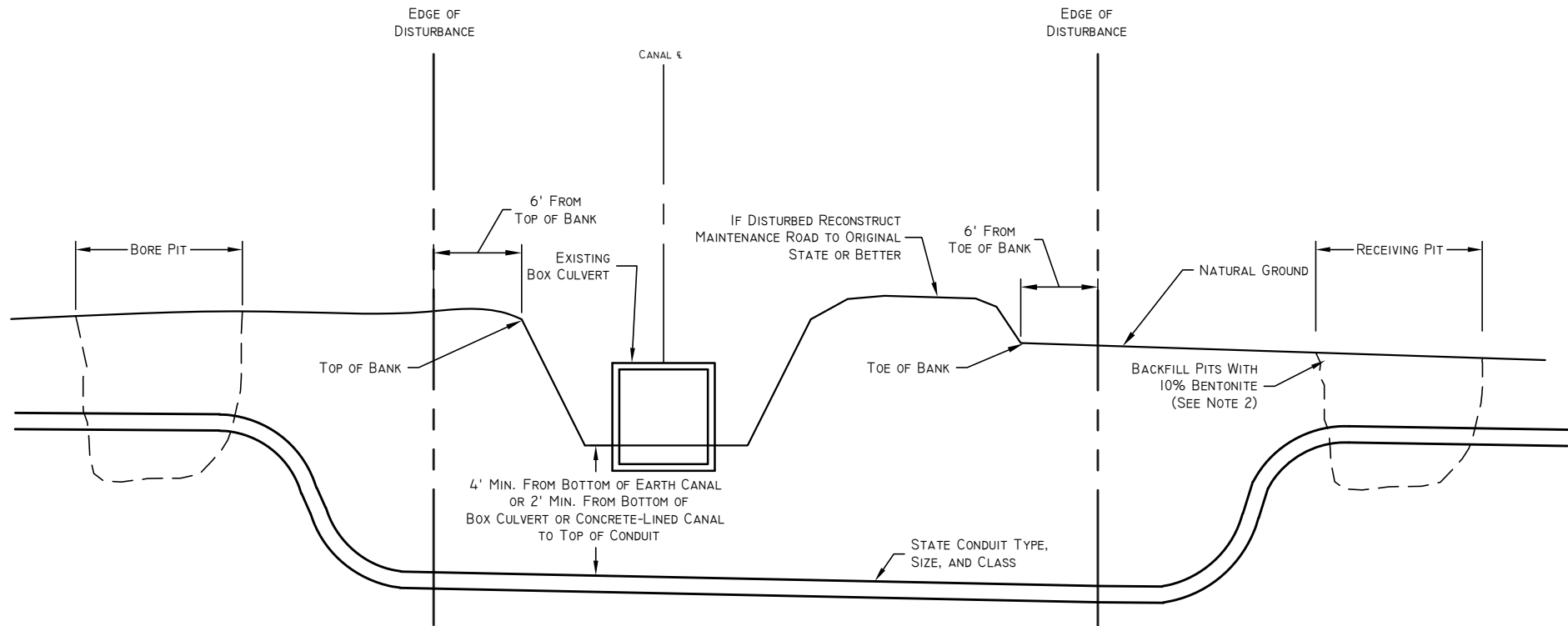
DESIGNER:	VINCE HOGGE	PROJECT LEADER:	CHAD BROWN
DRAFTSMAN:	MATT GURR	PRINT DATE:	JULY 7, 2026
NO.	DATE	REVISIONS	
		DESCRIPTION	



A DIRECTIONAL DRILL UNDER CANAL
NTS

NOTES:

1. BORE PIT COMPACTION TO BE 95% STANDARD PROCTOR DENSITY.
2. FILL BORE PITS WITH A MIXTURE OF NATIVE MATERIAL AND 10% BENTONITE POWDER TO CREATE A SEAL THAT WILL PREVENT WATER FROM FOLLOWING THE NEW CONDUIT.
3. STORMWATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK SITE.
4. CONDUIT MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING CANAL BOX CULVERT OR CONCRETE-LINED CANAL AND 4 FEET BELOW EARTHEN CANAL BOTTOM. IN AREAS OF SAND OR COBBLES, THIS DISTANCE MAY NEED TO BE INCREASED.
5. BORE PITS MUST BE PLACED 6' FROM TOE OF CANAL BANK ON THE DOWNHILL SIDE, AND 6' FROM THE TOP OF THE CANAL BANK ON THE UPHILL SIDE.



B DIRECTIONAL DRILL CROSS SECTION
NTS

WELLSVILLE-MENDON
CONSERVATION DISTRICT

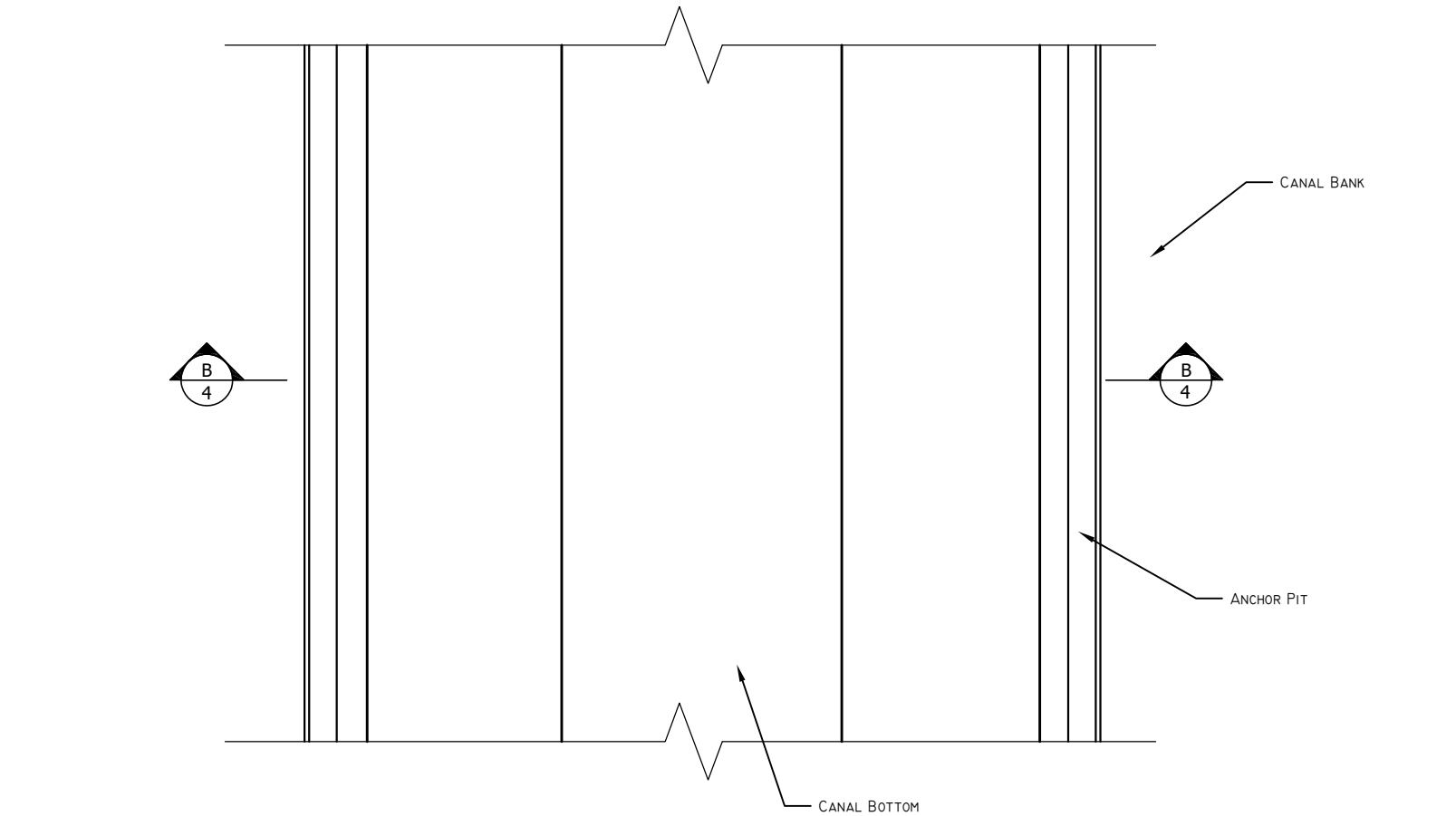


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DRAFTSMAN:	MATT GURR	PRINT DATE:	JULY 7, 2026
NO.	DATE	NTS	DESCRIPTION

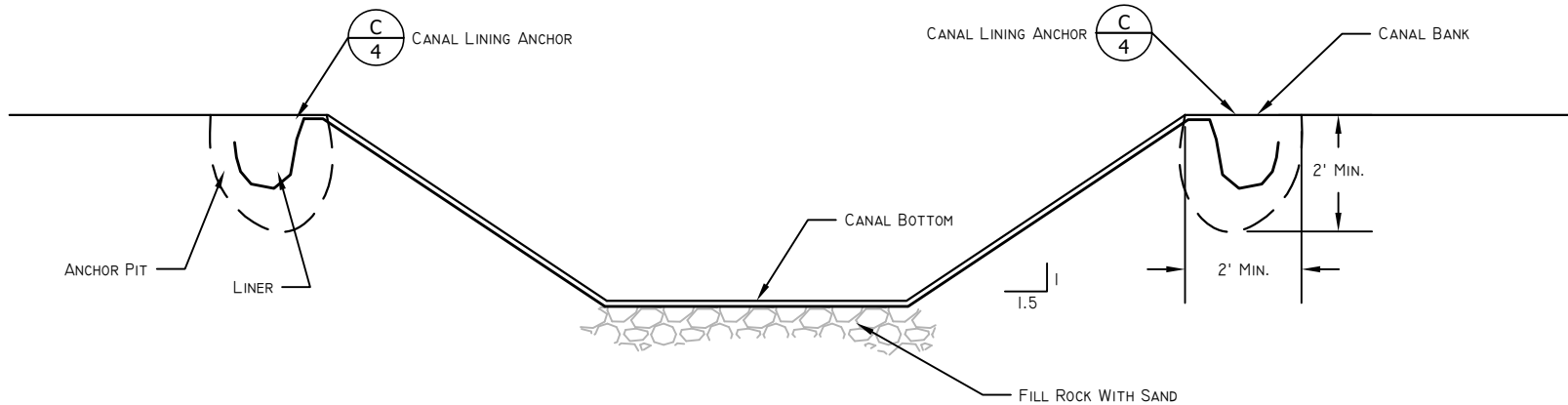
WELLSVILLE-MENDON CONSERVATION DISTRICT	
STANDARD DRAWINGS	
DIRECTIONAL DRILLING DETAILS	
JOB NO.	03-Directional Drilling.dwg
	03/2021 Wellsville Mendon Canal Reviews 2021 Standard Drawings
	LAYOUT: Details

SHEET

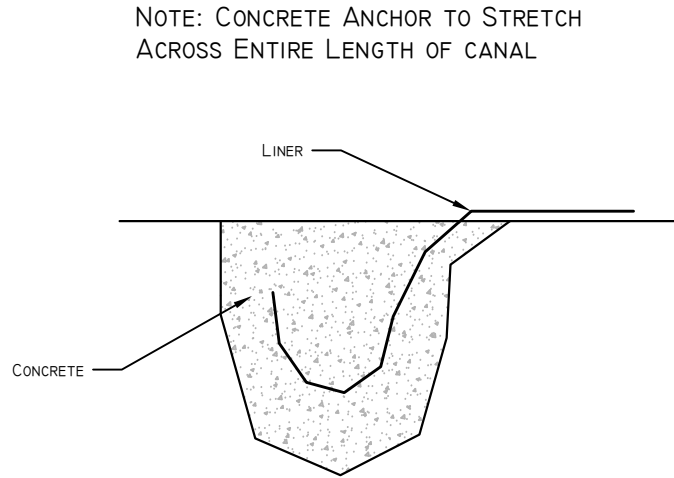
3 OF 14



A CANAL LINER PLAN
NTS



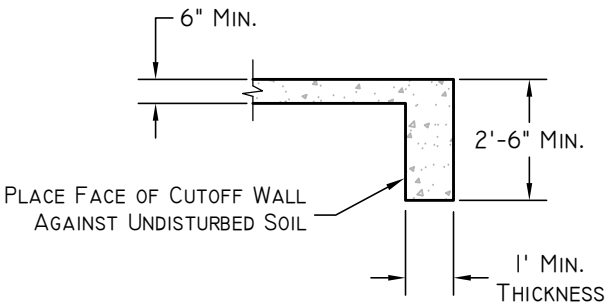
B MEMBRANE LINER CROSS SECTION
NTS



C CANAL LINING ANCHOR
NTS

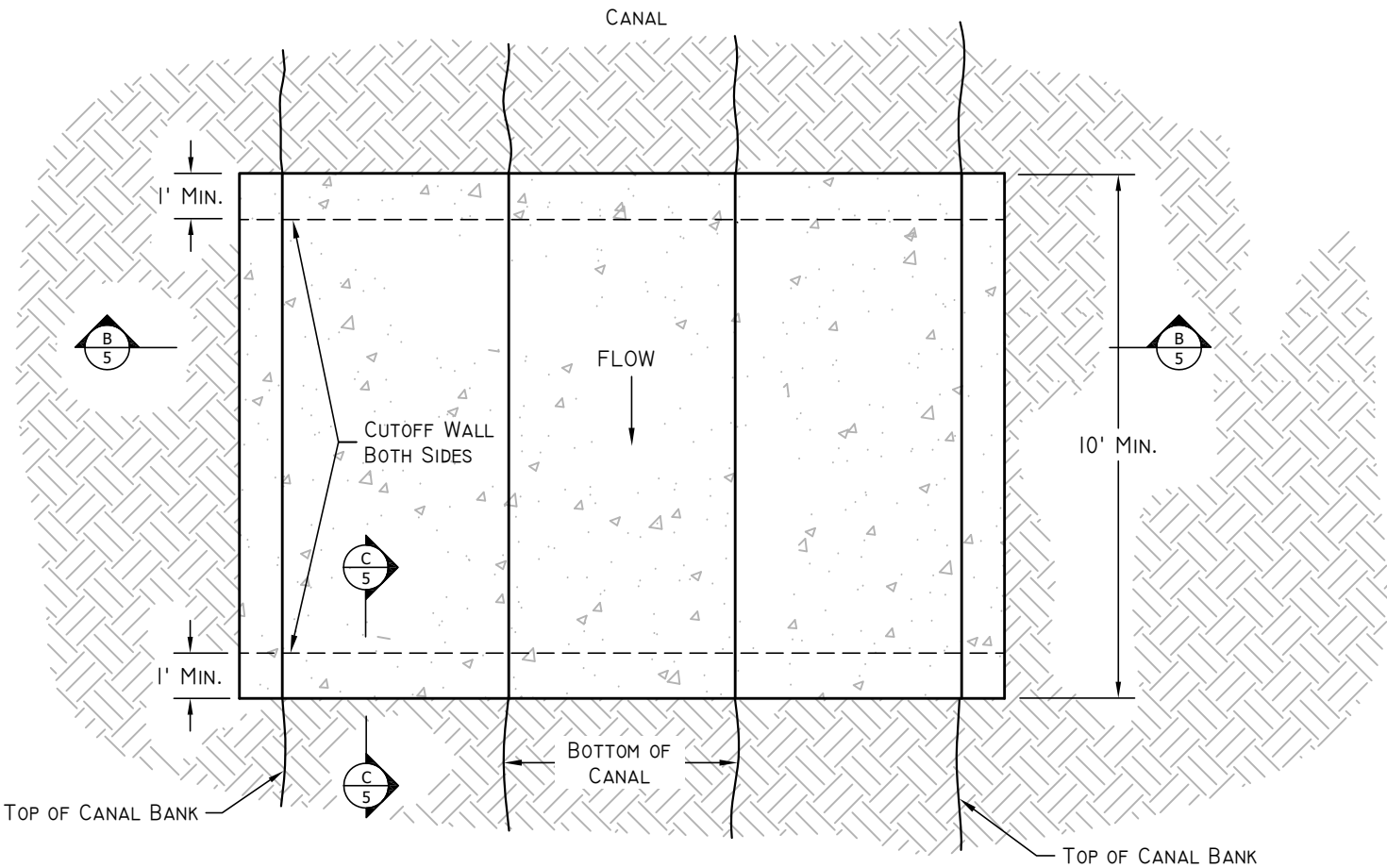
DESIGNER:	VINCE HOGGE	PROJECT LEADER:	CHAD BROWN
DRAFTSMAN:	MATT GURR	PRINT DATE:	JULY 7, 2026
NO.	DATE	REVISIONS	DESCRIPTION

WELLSVILLE-MENDON CONSERVATION DISTRICT	
STANDARD DRAWINGS	
MEMBRANE CANAL LINER	
JOB NO.	04-Concrete Liner.dwg 03/2021 Wellsville Mendon Canal Reviews 2021 Standard Drawings
2021	LAYOUT: Details

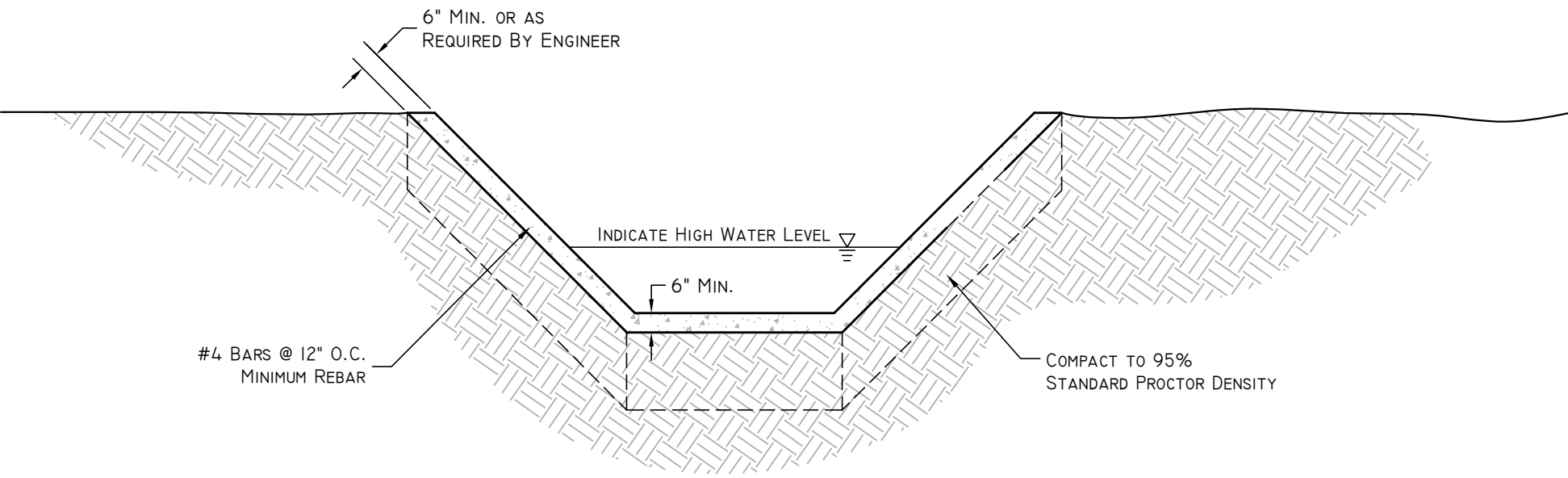


NOTE:
ENGINEER TO DETERMINE REBAR SIZE
AND SPACING IN CUTOFF WALL.

C CUTOFF WALL CROSS SECTION
NTS



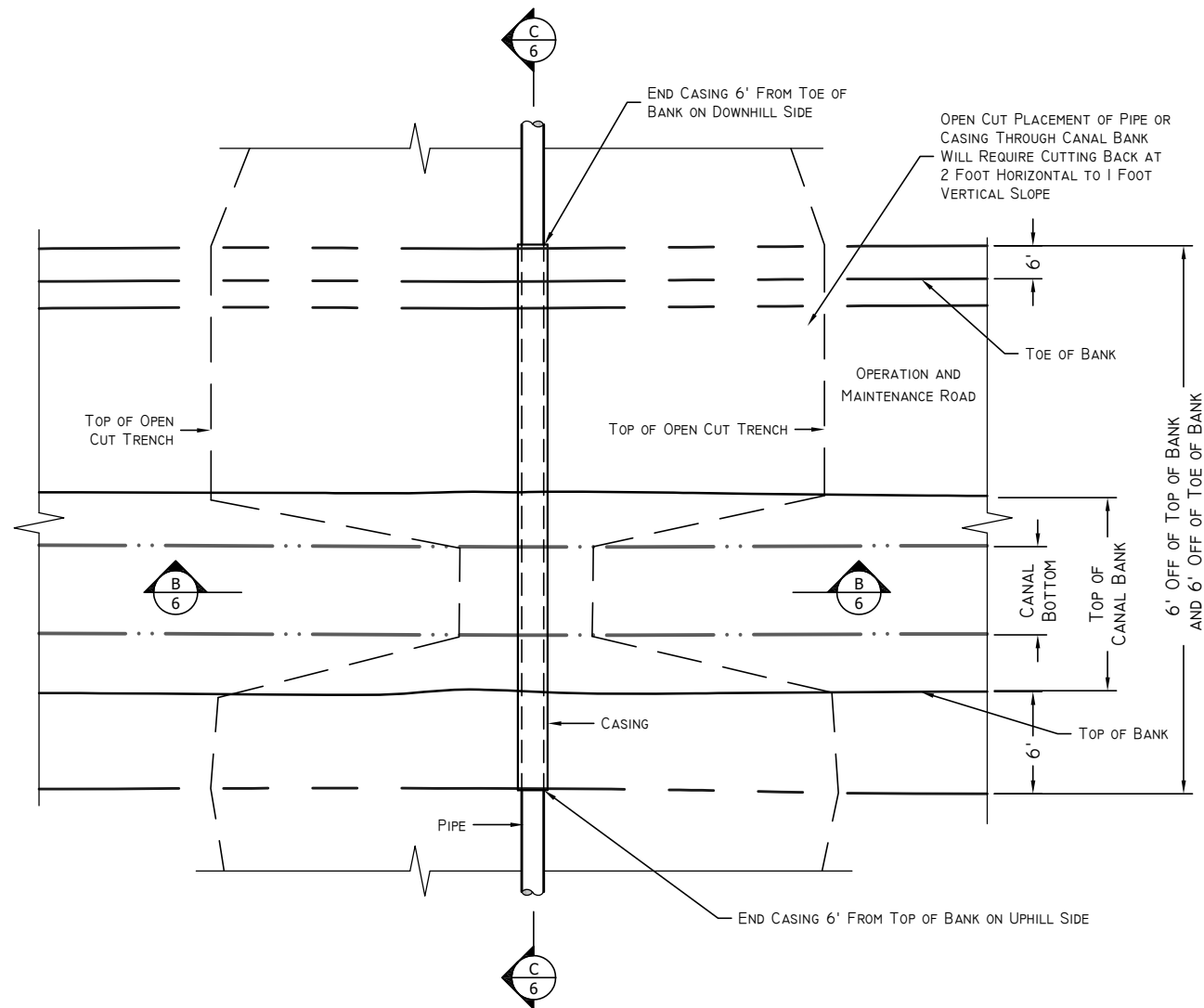
A CONCRETE LINER PLAN
NTS



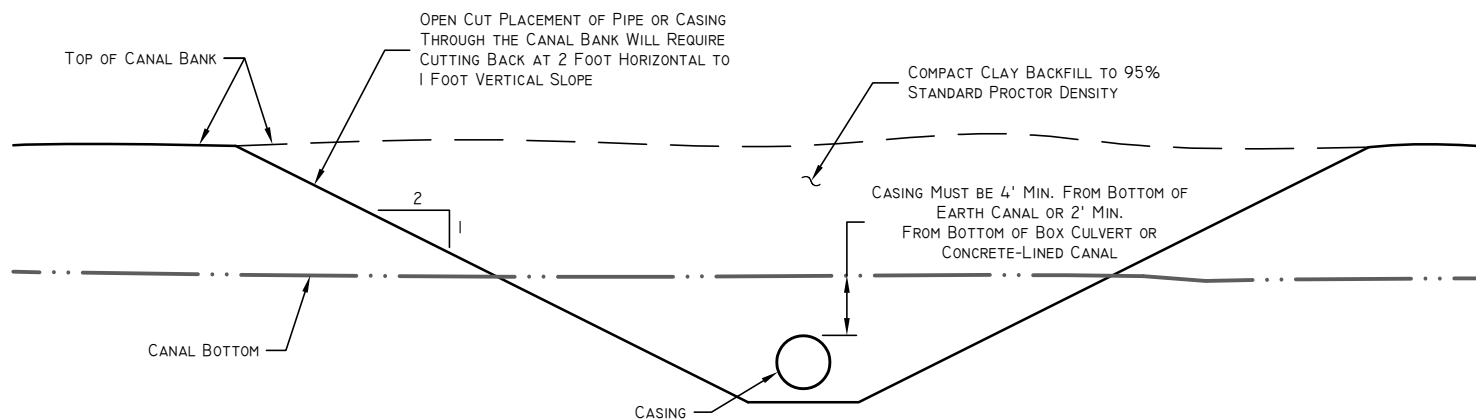
B CONCRETE LINER CROSS SECTION
NTS

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DRAFTSMAN:	MATT GURR	PRINT DATE:	JULY 7, 2026
REVISIONS			
NO.	DATE	IMTS.	DESCRIPTION

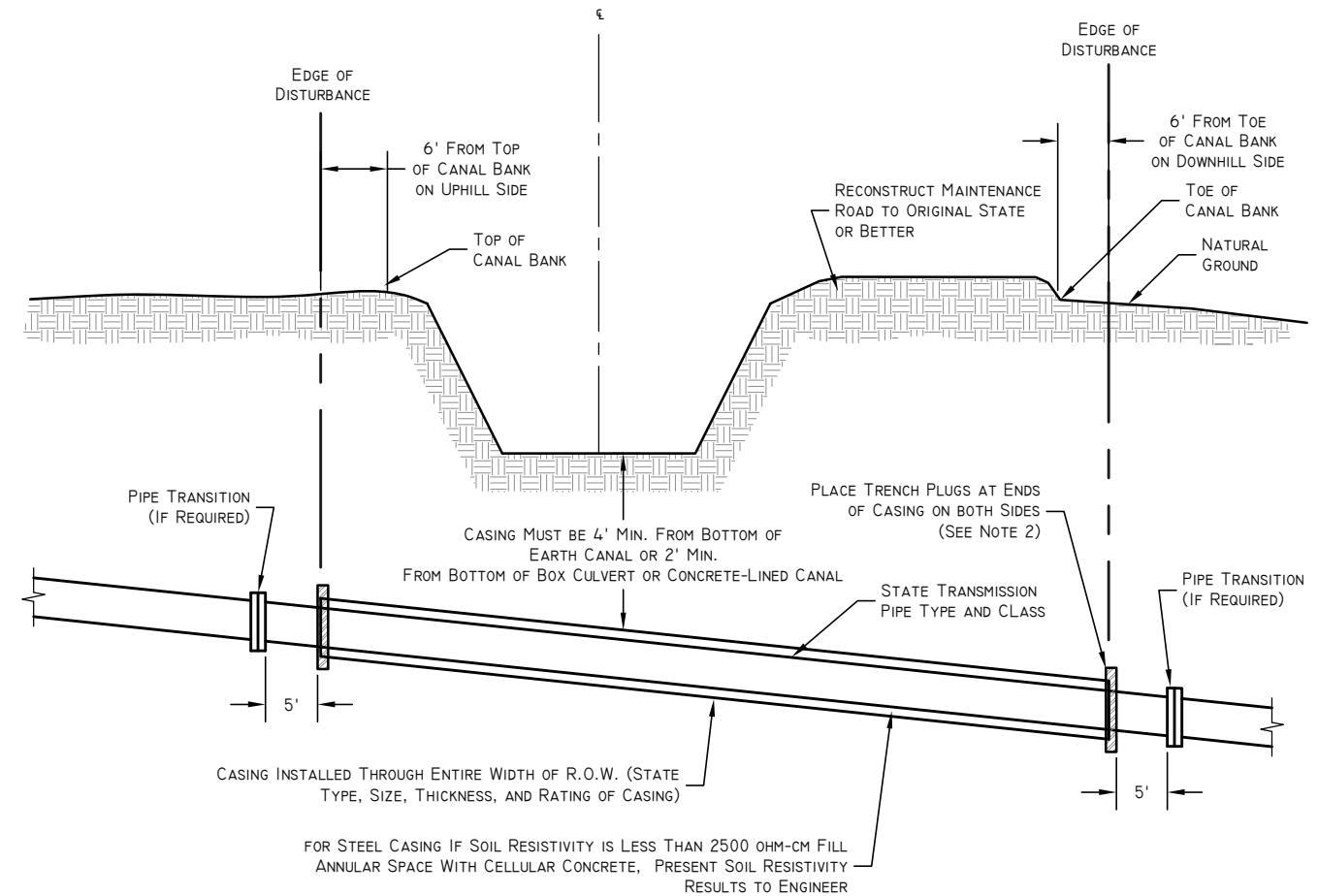
WELLSVILLE-MENDON CONSERVATION DISTRICT		STANDARD DRAWINGS	
CONCRETE CANAL LINER		04-Concrete Liner.dwg	
JOB NO.		03/2021 Wellsville Mendon Canal Reviews 2021 Standard Drawings	
SHEET		LAYOUT: Details (2)	



A OPEN CUT PLAN VIEW
NTS



B OPEN CUT CANAL CROSSING CROSS SECTION
NTS



C OPEN CUT CANAL CROSSING PROFILE
NTS

NOTES:

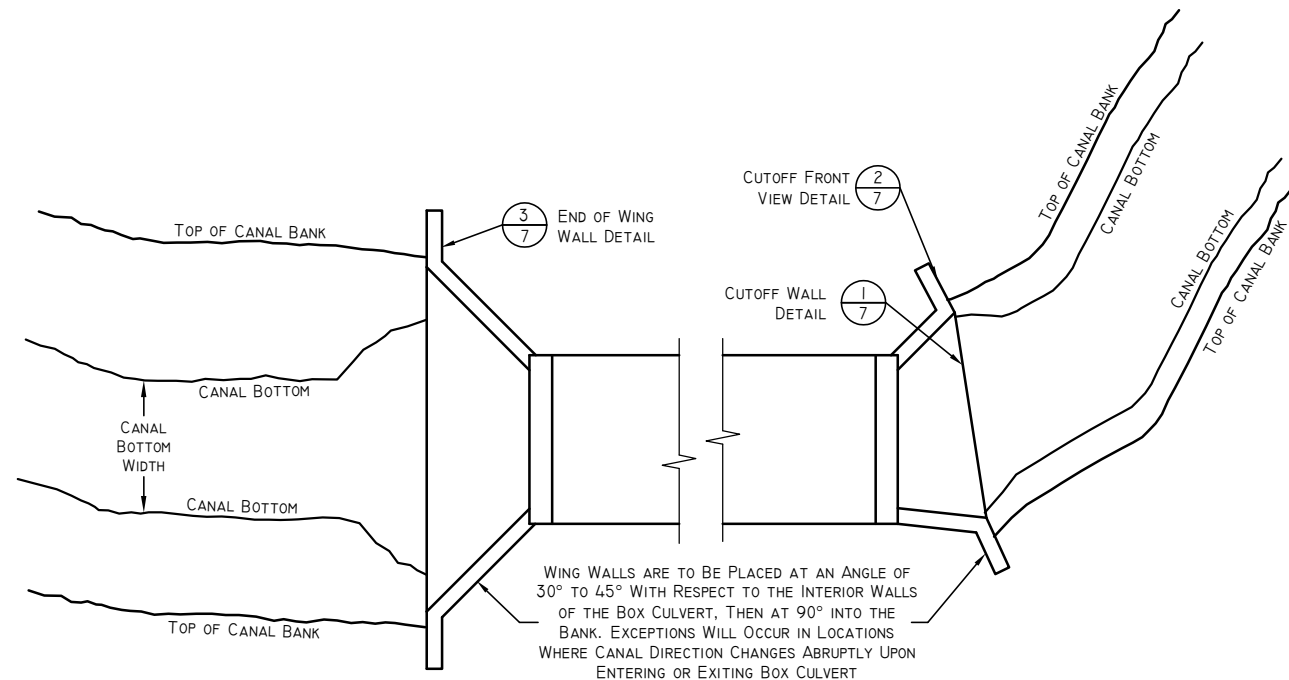
1. REMOVAL AND REPLACEMENT OF CANAL FLOOR AND BANKS WILL REQUIRE TESTING AND PROCTORS BY A LICENSED SOILS LAB. COMPACTION TO BE 95% STANDARD PROCTOR DENSITY.
2. TRENCH PLUGS ARE TO BE PLACED IN LOCATIONS SHOWN ON BOTH SIDES FOR WIDTH OF TRENCH AND 12 INCHES ABOVE AND BELOW CASING PIPES AND A MINIMUM THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE, OR SHALL BE A FLOWABLE FILL CONCRETE.
3. STORM WATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK SITE.
4. WATERLINE PIPE INSIDE OF CASING SHALL HAVE RESTRAINING JOINTS.
5. CASING MUST BE 4' MIN. FROM BOTTOM OF EARTH CANAL OR 2' MIN. FROM BOTTOM OF BOX CULVERT OR CONCRETE-LINED CANAL.
6. END PIPE CASING 6' FROM THE TOP OF THE CANAL BANK ON THE UPHILL SIDE AND 6' FROM THE TOE OF THE CANAL BANK ON THE DOWNHILL SIDE.
7. CARRIER PIPE SHALL HAVE ADEQUATE CASING SPACERS. PER MANUFACTURERS SPECIFICATIONS.

TABLE I
STEEL CASING THICKNESS

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DRAFTSMAN:	MATT GURR	PRINT DATE:	JULY 7, 2026
NO.	DATE	REVISIONS	DESCRIPTION

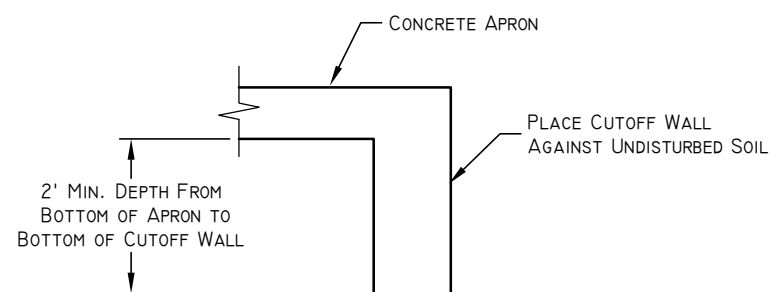
WELLSVILLE-MENDON CONSERVATION DISTRICT		STANDARD DRAWINGS	
OPEN CUT DETAILS		06-Open Cut Details.dwg	
JOB NO.		03/21021 Wellsville Mendon Canal Reviews 2021 Standard Drawings	
SHEET		LAYOUT: Details	
6		OF 14	



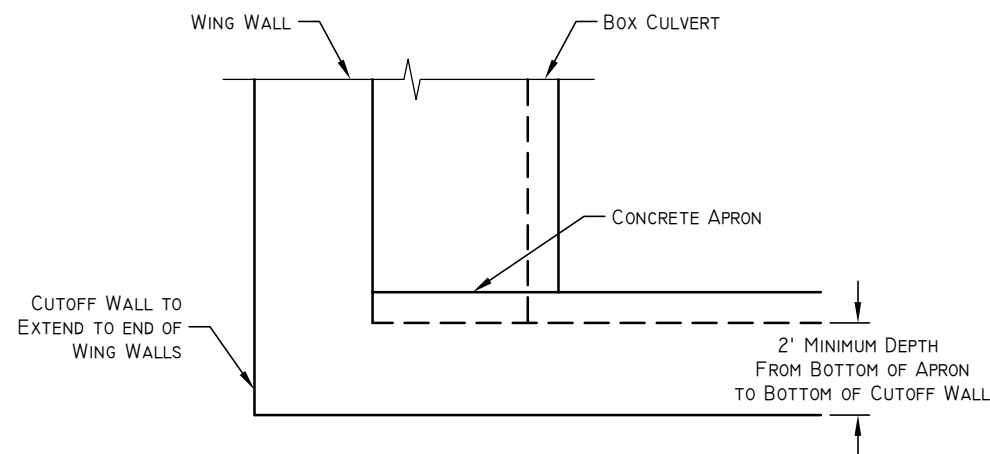
A PLAN VIEW OF BOX CULVERT
NTS

NOTES:

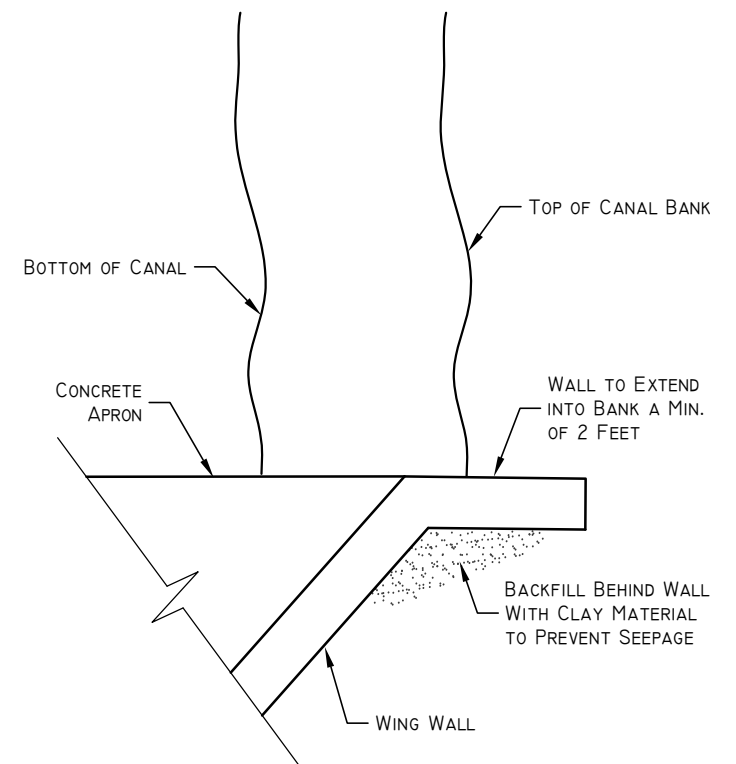
1. BOX CULVERTS TO HAVE A MINIMUM HEIGHT OF 3 FEET.
2. WIDTH OF BOX CULVERT IS TO MATCH EXISTING CHANNEL BOTTOM.
3. ACCESS TO CANAL OPERATION AND MAINTENANCE ROAD SHALL BE INSTALLED WITH CURB CUTS AT DRIVE APPROACHES AND THICKENED CONCRETE AT SIDEWALKS.
4. CUTOFF WALLS AND APRONS BETWEEN WING WALLS ARE REQUIRED.
5. END OF WING WALL SHALL NOT INTERFERE WITH OPERATION AND MAINTENANCE ROAD.
6. 6 FOOT CHAIN LINK FENCE OR 4 FOOT PARAPET WALL IS REQUIRED ON ALL BOX CULVERTS THAT CARRY PEDESTRIAN TRAFFIC. EXCEPTIONS MAY OCCUR WHERE LOCAL ORDINANCES NOTE OTHERWISE AND UPON APPROVAL BY CANAL COMPANY.
7. DRAWINGS SUBMITTED FOR REVIEW ARE TO SHOW PLAN AND PROFILE VIEWS, NOTE SLOPE, INCLUDE DETAIL INDICATING REBAR SIZE AND SPACING, AND STATE TRAFFIC LOADING.
8. CASINGS MUST HAVE A MINIMUM OF 2 FEET BETWEEN TOP OF CASING AND BOTTOM OF BOX CULVERT.
9. ALL CONCRETE USED IN CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. THE CONCRETE MIX SHALL INCLUDE BETWEEN 5% AND 7% AIR ENTRAINMENT.



1 CUTOFF WALL DETAIL
NTS



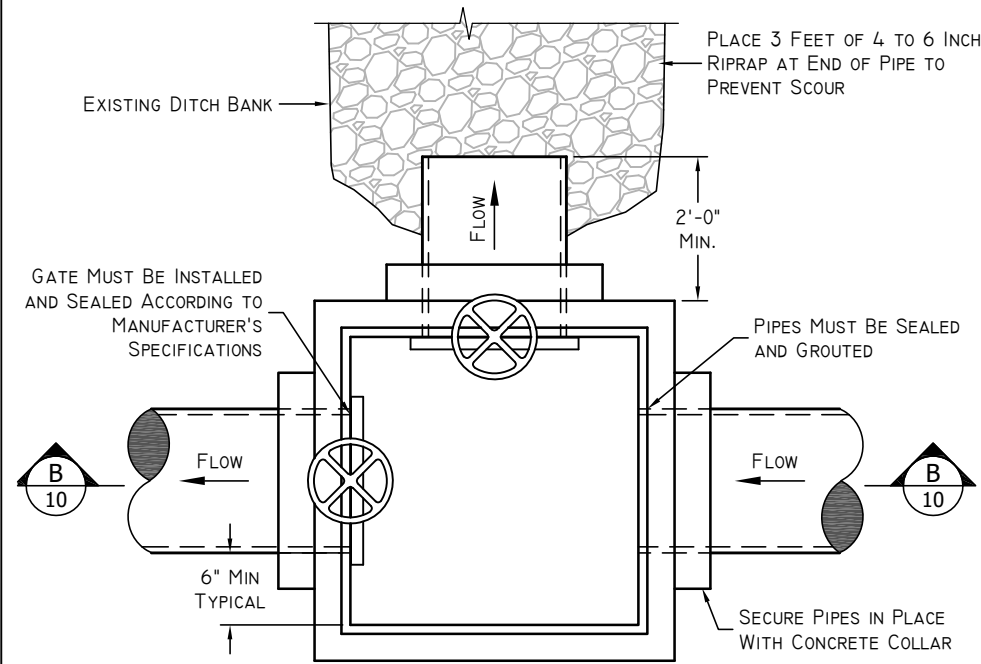
2 CUTOFF FRONT VIEW DETAIL
NTS



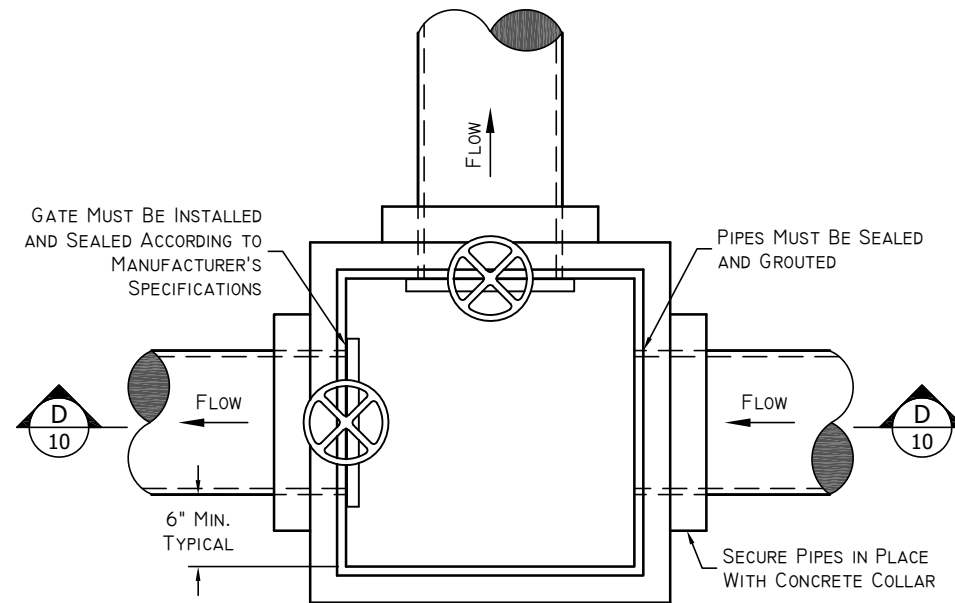
3 END OF WING WALL DETAIL
NTS

DESIGNER:	VINCE HOGGE	PROJECT LEADER:	CHAD BROWN
DRAFTSMAN:	MATT GURR	PRINT DATE:	JULY 7, 2026
NO.	DATE	NTS	DESCRIPTION

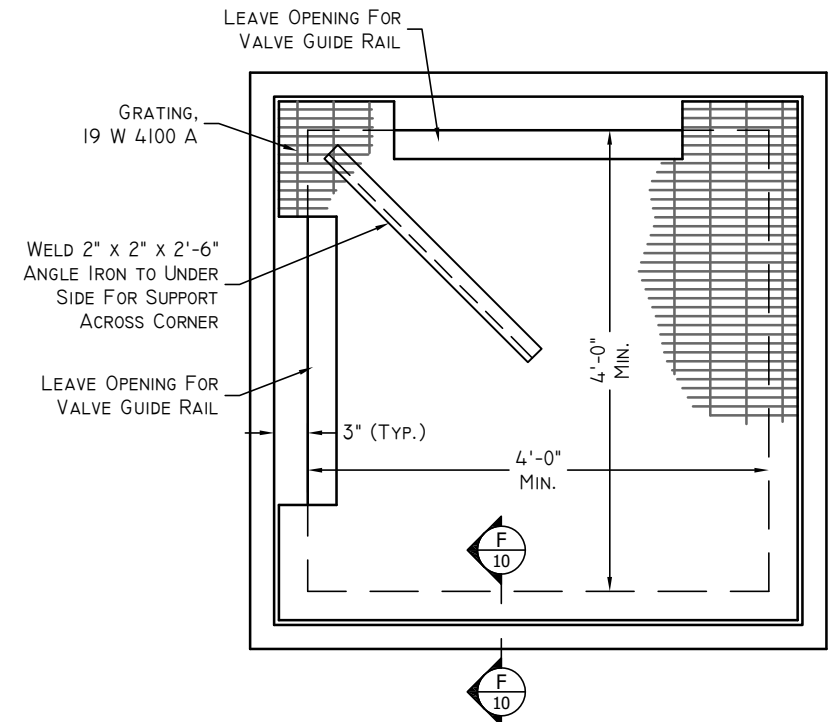
WELLSVILLE-MENDON CONSERVATION DISTRICT	STANDARD DRAWINGS	07-Box Culvert Details.dwg	JOB NO.
BOX CULVERT DETAILS	BOX CULVERT DETAILS	03/10/21 Wellsville Mendon Canal Reviews 2021 Standard Drawings	21021
		LAYOUT: Details	



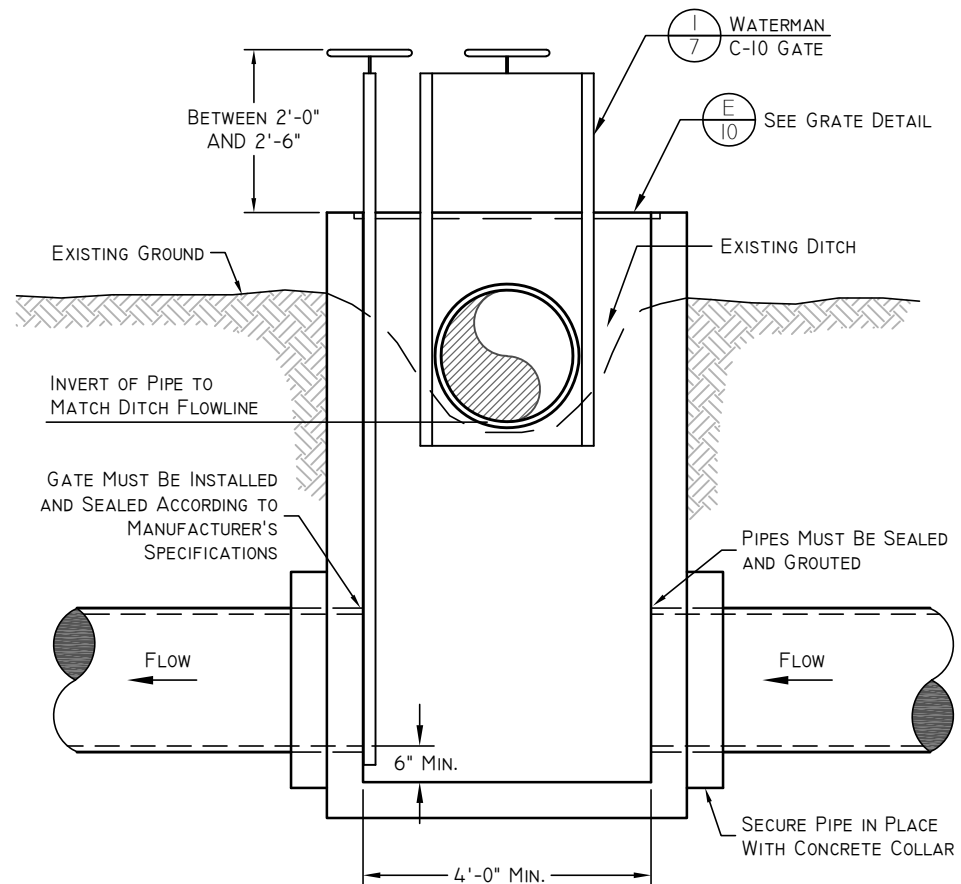
A TURNOUT BOX PLAN
NTS



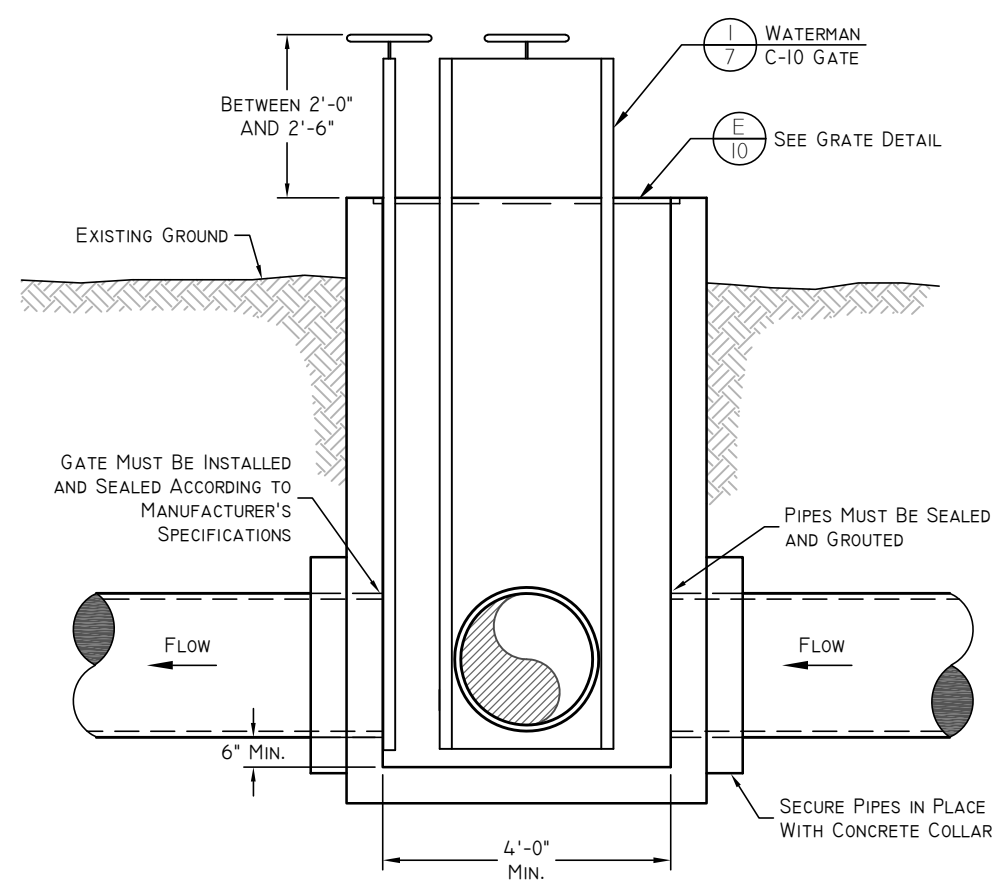
C DIVERSION BOX
NTS



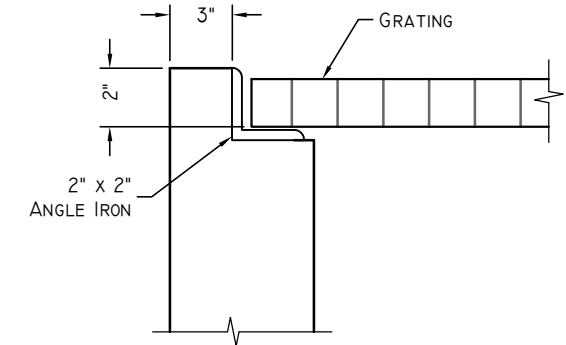
E GRATE DETAIL - TOP VIEW
NTS



B TURNOUT BOX SECTION
NTS



D DIVERSION BOX SECTION
NTS



F GRATING LIP SECTION
NTS

NOTES:

1. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT WITH CONCRETE COLLAR.
2. BOXES MAY BE PRECAST OR CAST IN PLACE. BOXES SHALL HAVE A MINIMUM INTERIOR WIDTH AND LENGTH OF 4' WITH MINIMUM OF #4 REBAR @ 12" O.C. BOXES MUST BE SUBMITTED FOR REVIEW.
3. TURNOUT AND DIVERSION BOXES SHALL NOT BE PLACED IN ROADWAY.
4. GRATE TO BE GALVANIZED.

WELLSVILLE-MENDON
CONSERVATION DISTRICT



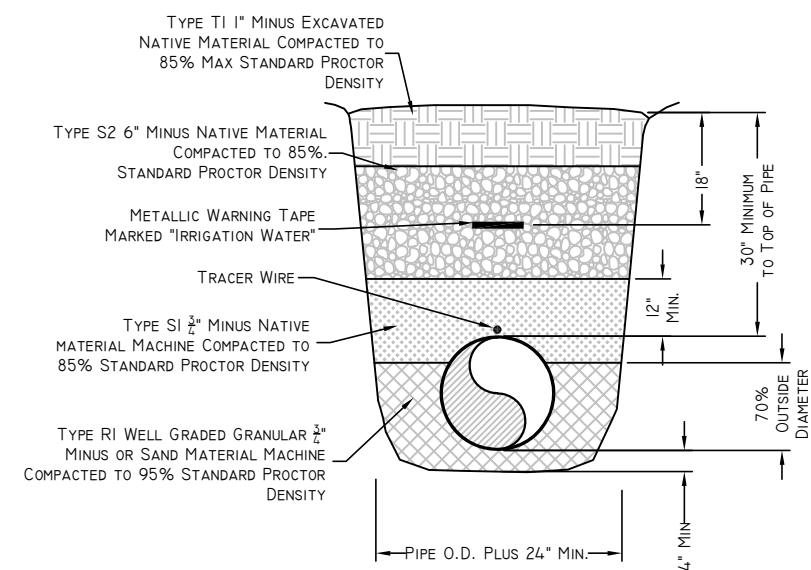
DESIGNER:	VINCE HOGGE	PROJECT LEADER:	CHAD BROWN
DRAFTSMAN:	MATT GURR	DATE:	JULY 7, 2026
NO.	DATE	REVISIONS	DESCRIPTION
1			
2			
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WELLSVILLE-MENDON CONSERVATION DISTRICT
STANDARD DRAWINGS
IRRIGATION TURNOUT-DIVERSION BOX

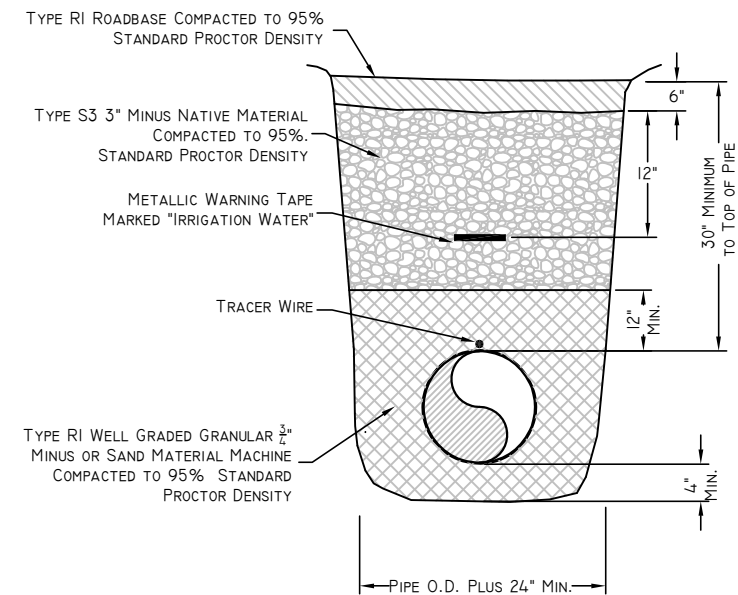
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03/2021 Wellsville Mendon Canal Reviews 2021 Standard Drawings
LAYOUT: Details

JOB NO.
21021

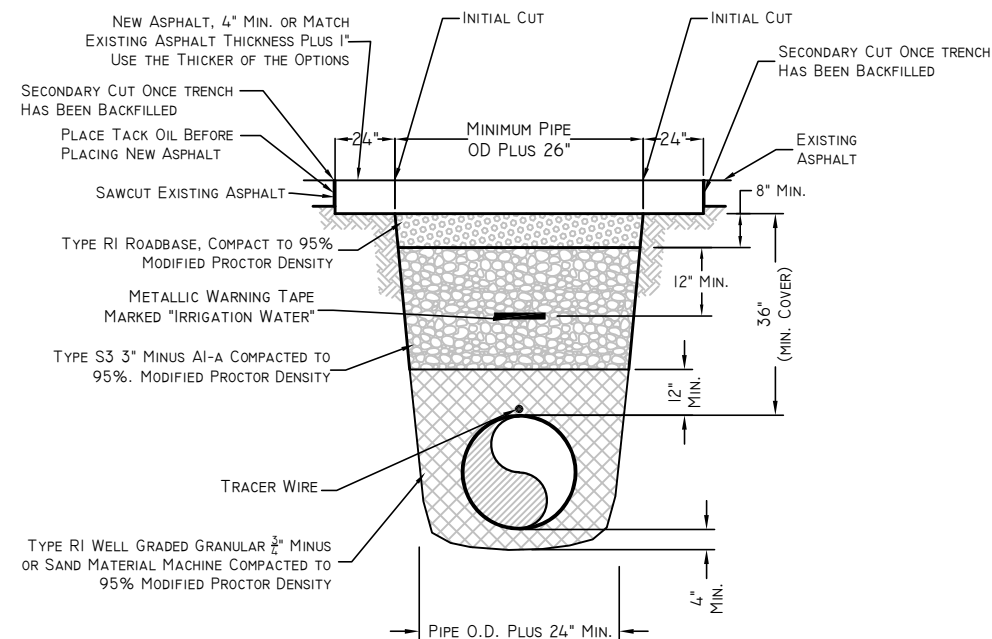
SHEET
9 OF **14**



A TYPICAL TRENCH DETAIL
NOT TO SCALE



B GRAVEL ROAD TRENCH DETAIL
NOT TO SCALE



C ASPHALT ROAD TRENCH DETAIL
NOT TO SCALE

NOTES:

- IF IN CACHE COUNTY ROADWAY, ENSURE CACHE COUNTY STANDARDS ARE FOLLOWED.
- ALL HOT-MIX ASPHALT SHALL BE PG58-28, SP-1/2 MAX 15% RAP, FOR CLASS II ROAD PER APWA 32 12 05.
- CONTRACTOR SHALL APPLY TACK COAT, COMPLIANT WITH APWA 32 12 14, BETWEEN LAYERS OR LIFTS IF THE PREVIOUS PAVEMENT LAYER IS DIRTY OR OLDER THAN 24 HOURS PER APWA SECTION 32 12 16.
- CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENT TO BE LEFT IN PLACE. REPAIR OR REPLACE DAMAGED PAVEMENTS AT NO ADDITIONAL EXPENSE TO OWNER.
- ALL ASPHALT CUT LOCATIONS REPRESENT FINISHED LOCATIONS. CUTS ARE TO BE NEAT, CLEAN, AND VERTICAL PRIOR TO PATCHING ASPHALT.
- ANY SAW CUTS REQUIRED PRIOR TO THE FINAL PATCH TO FACILITATE CONSTRUCTION ARE CONTRACTOR WAYS AND MEANS AND WILL NOT BE PAID IN ADDITION TO THE FINAL CUTS. ADDITIONALLY, ANY DAMAGE TO THE SAW-CUT EDGE MUST BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER IF DAMAGED AFTER CUTTING.
- ALL SAW CUT EDGES AND FINISHED EDGES SHALL BE TREATED WITH A TACK COAT PRIOR TO THE PLACEMENT OF ASPHALT IN ACCORDANCE WITH APWA 32 12 14.

PRODUCTS:

- SUBSOIL MATERIALS
 - SUBSOIL TYPE SI (3/4-INCH MINUS):
 - EXCAVATED AND RE-USED NATIVE MATERIAL OR IMPORTED BORROW.
 - GRADED.
 - FREE OF LUMPS AND ROCKS LARGER THAN 3/4 INCHES, FROZEN MATERIAL, AND DEBRIS.
 - SUBSOIL TYPE S2 (3-INCH MINUS):
 - EXCAVATED AND RE-USED NATIVE MATERIAL OR IMPORTED BORROW.
 - GRADED.
 - FREE OF LUMPS AND ROCKS LARGER THAN 3-INCHES, FROZEN MATERIAL, AND DEBRIS.
 - BACKFILL FOR TRENCHES FROM 1 FOOT ABOVE THE TOP OF THE PIPE.
 - SUBSOIL TYPE S3 (1-INCH MINUS):
 - IMPORTED MATERIAL COMPLYING WITH ASTM D3282 CLASS A-I-A.
- ROADBASE MATERIALS
 - ROADBASE TYPE RI:
 - IMPORTED BORROW.
 - KEEP ROADBASE SEPARATE FROM SUBSOIL MATERIALS
 - GRADED AND COMPACTED.
 - FREE OF LUMPS AND ROCKS LARGER THAN 1-INCH, ORGANIC MATTER, AND DEBRIS.
 - SIEVE ANALYSIS: GRADED IN ACCORDANCE WITH ASTM C136, AS FOLLOWS:

- WELL GRADED.
- MAXIMUM PARTICLE SIZE OF 3-INCHES.
- MATERIAL MEETS CBR VALUE OF 45.
- SUBSOIL TYPE S4 (1-INCH MINUS):
 - IMPORTED MATERIAL COMPLYING WITH ASTM D3282 CLASS A-I-A.
 - WELL GRADED.
 - MAXIMUM PARTICLE SIZE OF 1-INCH.
 - MATERIAL MEETS CBR VALUE OF 80.
- TOPSOIL MATERIALS
 - TOPSOIL TYPE TI:
 - EXCAVATED AND REUSED MATERIAL.
 - GRADED.
 - FREE OF ROOTS, ROCKS LARGER THAN 1/2-INCH, SUBSOIL, DEBRIS, LARGE WEEDS, AND FOREIGN MATTER.
 - KEEP TOPSOIL SEPARATED FROM OTHER MATERIALS.

SOIL TYPE RI (ROADBASE)		
SIEVE SIZE	PERCENT PASSING (BY WEIGHT)	
	MIN	MAX
3/4-INCH	100	-
1/2-INCH	79	91
No. 4	49	61
No. 16	27	35
No. 200	7	11

WELLSVILLE-MENDON
CONSERVATION DISTRICT



DESIGNER:	DRAFTSMAN:	DATE	NO.	DATE	DESCRIPTION
VINCE HOGGE	MATT GURR				
PROJECT LEADER:	CHAD BROWN	JULY 7, 2026			
PRINT DATE:					
REVISIONS					

WELLSVILLE-MENDON CONSERVATION DISTRICT
STANDARD DRAWINGS
PRESSURIZED PIPELINE TRENCH DETAILS
13-Pressurized Pipeline Details.dwg
03/21/2021 Wellsville Mendon Canal Reviews 2021 Standard Drawings
JOB NO. 21021
LAYOUT: 10 Trench



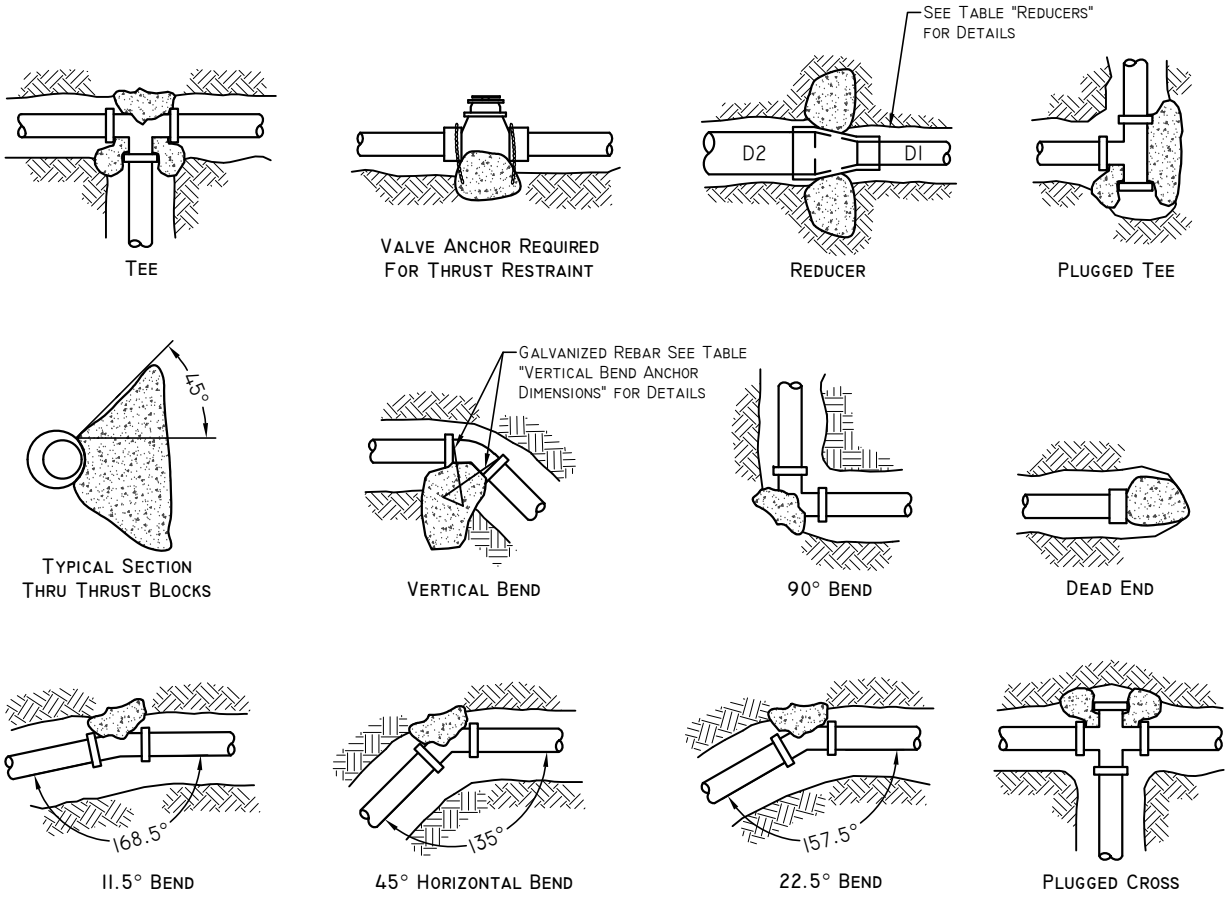
PIPE DIAMETER	ANCHOR BLOCK	REBAR NUMBER	DEPTH OF REBAR
(IN)	(CF)	(#)	(FT)
4	1	4	1
6	2	4	1
8	3	4	2
10	4	5	2
12	6	5	3
15	10	6	3
18	14	6	4
24	26	6	4
30	40	6	4
36	58	6	4

REDUCERS			
DI	D2	AREA DIFFERENCE (IN ²)	THRUST BLOCK SOIL BEARING AREA (FT ²)
8.0	12.0	62.8	3.1
12.0	15.0	63.6	3.2
15.0	24.0	275.7	13.8
18.0	24.0	197.9	9.9
24.0	36.0	565.5	28.3

ASSUMED BEARING PRESSURE FOR THESE CALCULATIONS IS 200 LB/FT²
SEE NOTE 7 TO VERIFY BEARING PRESSURE

		THRUST BLOCK SOIL BEARING AREA				
			BEND ANGLE (DEGREES)			
DIAMETER	PIPE AREA	TEES & DEAD ENDS	90	45	22.5	11.25
(IN)	(IN ²)	(FT ²)	(FT ²)	(FT ²)	(FT ²)	(FT ²)
2	3	0.2	0.2	0.1	0.1	0.0
4	13	0.6	0.9	0.5	0.2	0.1
6	28	1.4	2.0	1.1	0.6	0.3
8	50	2.5	3.6	1.9	1.0	0.5
10	79	3.9	5.6	3.0	1.5	0.8
12	113	5.7	8.0	4.3	2.2	1.1
15	177	8.8	12.5	6.8	3.4	1.7
18	254	12.7	18.0	9.7	5.0	2.5
24	452	22.6	32.0	17.3	8.8	4.4
36	1018	50.9	72.0	39.0	19.9	10.0

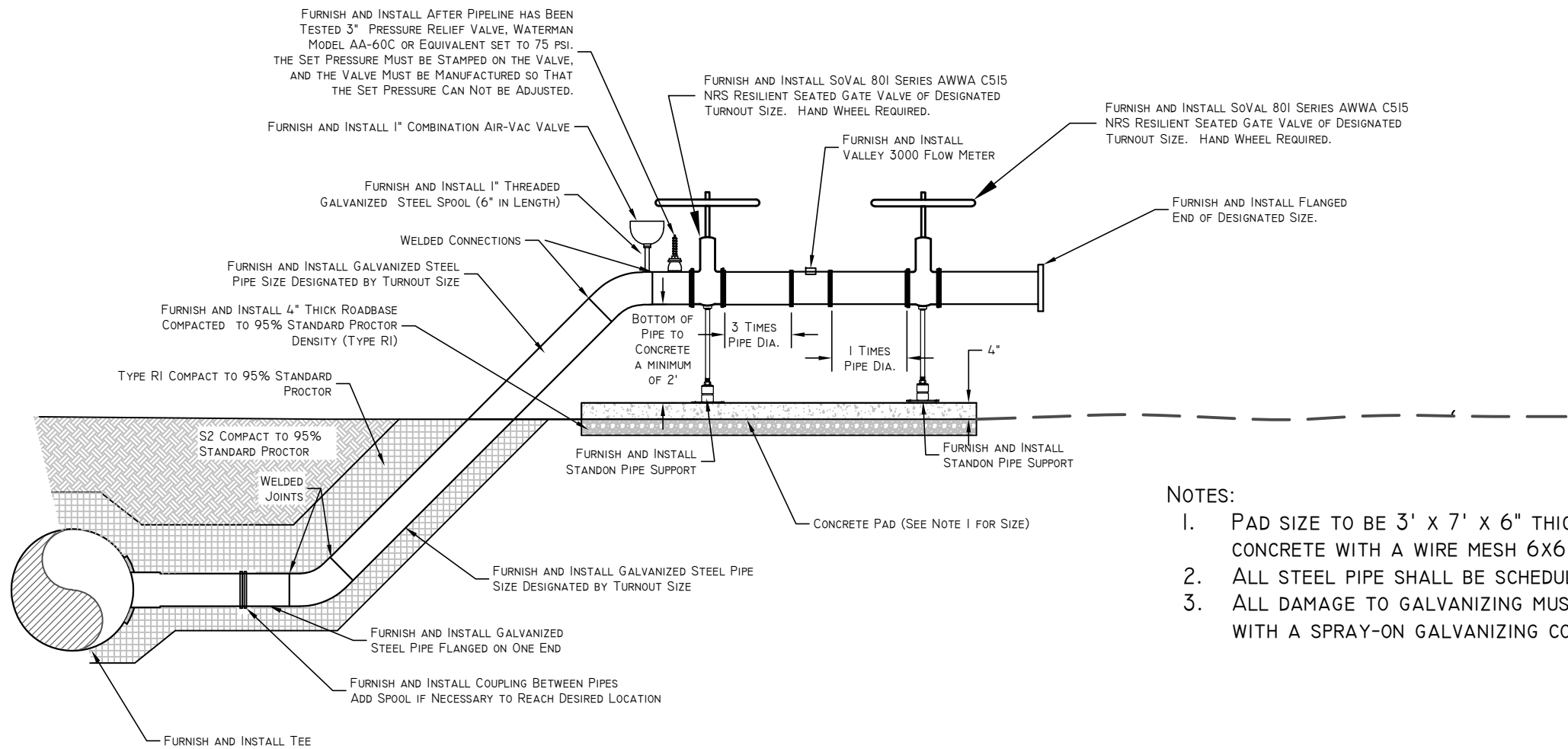
SEE NOTE 7 TO VERIFY BEARING PRESSURE



THRUST BLOCK NOTES:

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH OR STRUCTURAL BACKFILL APPROVED BY ENGINEER. PLACE VISQUEEN BARRIER BETWEEN CONCRETE AND PIPE. VALVE AND FITTING ANCHORS MUST BE GALVANIZED RODS.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. REQUIRED BEARING AREAS AT FITTINGS MUST BE AS REQUIRED IN NOTE 7 TO CONFORM TO TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES).
4. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS TYPICAL DETAIL.
5. ALL BURIED PIPING EXCEPT FLANGED, SCREWED, SOCKET WELD PVC OR WELDED STEEL PIPE SPECIFIED TO BE PRESSURE TESTED MUST BE PROVIDED WITH CONCRETE THRUST BLOCKS AT ALL DIRECTION CHANGES UNLESS OTHERWISE NOTED.
6. THRUST BLOCKS MUST NOT BE LOCATED OR SIZED TO ENCASE ADJACENT PIPES OR FITTINGS.
7. BEARING AREAS ARE BASED ON TEST PRESSURE OF 100 POUNDS PER SQUARE INCH AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. FOR ALLOWABLE BEARING PRESSURES LESS THAN 2,000 POUNDS PER SQUARE FOOT, USE THIS EQUATION TO CORRECT THE AREA

$$\text{BEARING AREA} = \text{AREA} \times \left(\frac{2000}{\text{ACTUAL ALLOWABLE BEARING}} \right)$$



- NOTES:
- PAD SIZE TO BE 3' x 7' x 6" THICK, REINFORCE CONCRETE WITH A WIRE MESH 6x6 W2.9xW2.9.
 - ALL STEEL PIPE SHALL BE SCHEDULE 40.
 - ALL DAMAGE TO GALVANIZING MUST BE COVERED WITH A SPRAY-ON GALVANIZING COMPOUND.

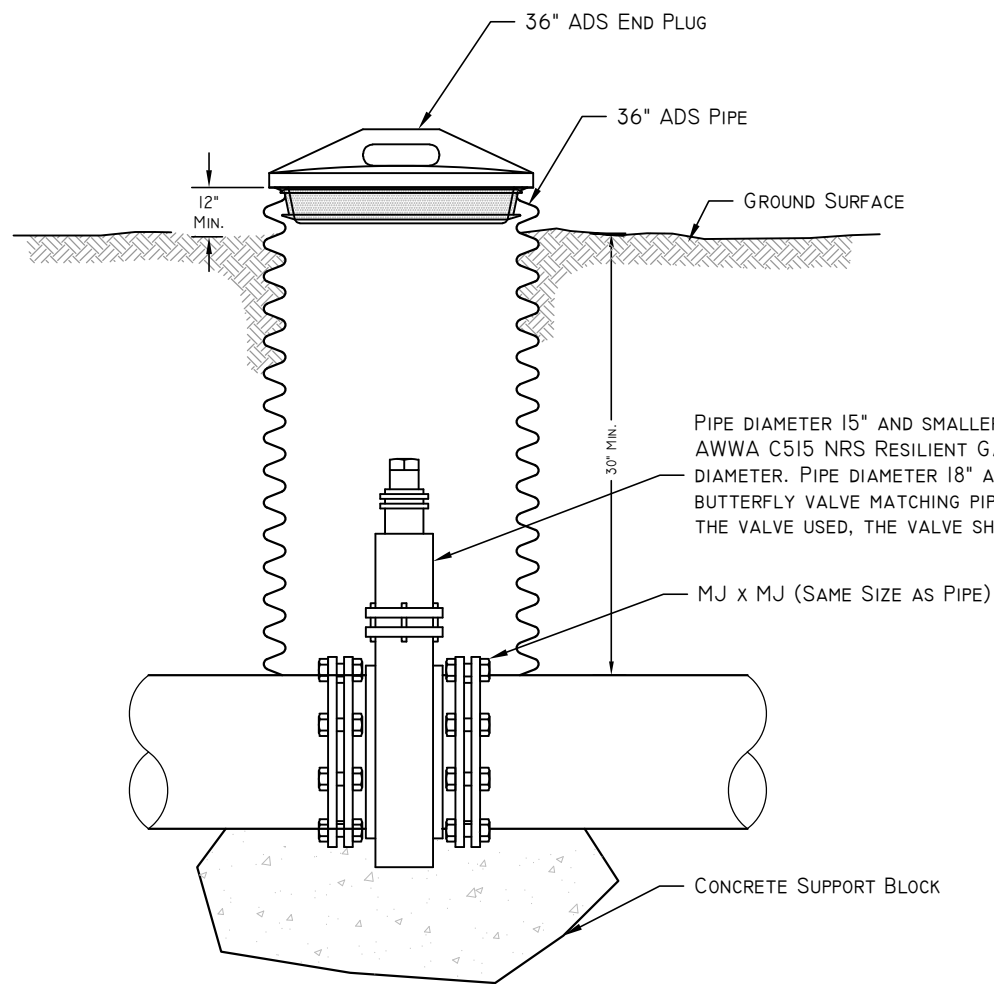
A **PRESSURE TURNOUT**
NOT TO SCALE



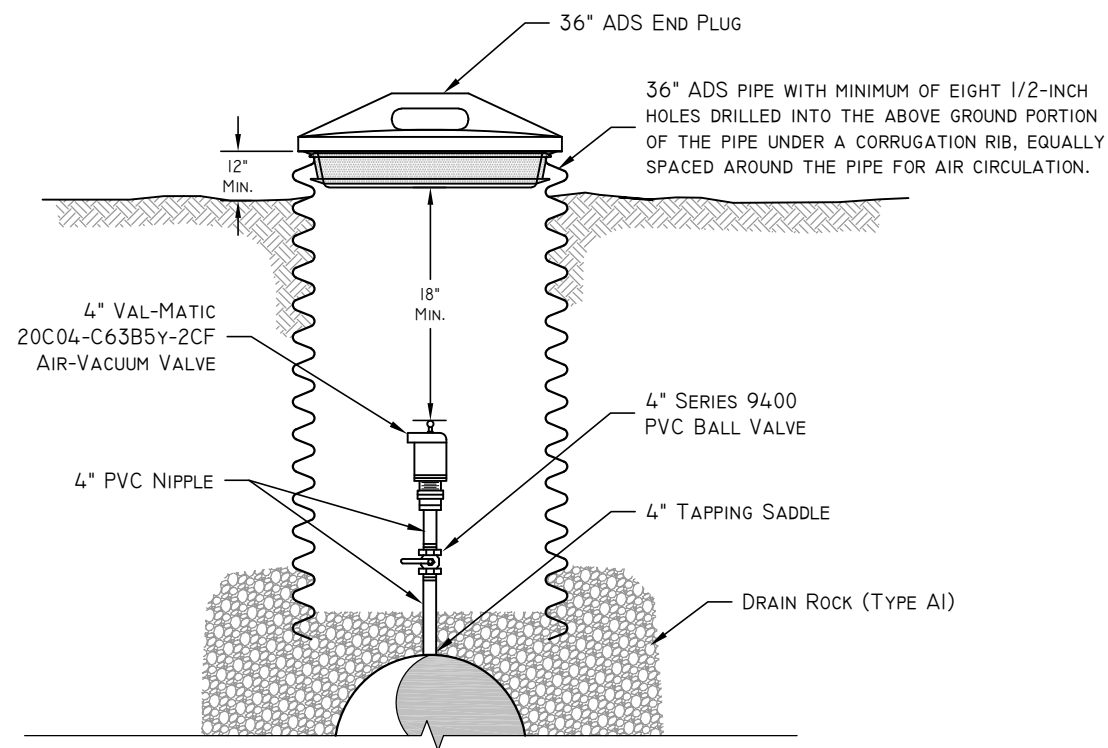
WELLSVILLE-MENDON
CONSERVATION DISTRICT

DESIGNER:	DRAFTSMAN:	VANCE HOGGE	PROJECT LEADER:	CHAD BROWN
		MATT GURR		JULY 21, 2026
		REVISIONS		
NO.	DATE	INTS	DESCRIPTION	

WELLSVILLE-MENDON CONSERVATION DISTRICT		STANDARD DRAWINGS	
PRESSURIZED PIPELINE TURNOUT DETAILS		13-Pressurized Pipeline Details.dwg	
JOB NO.	21021	03/21/2021 Wellsville Mendon Canal Reviews 2021 Standard Drawings	
SHEET		LAYOUT: 12 Turnouts	
12	OF	14	



A ISOLATION VALVE DETAIL
NOT TO SCALE



B AIR-VAC VALVE
NOT TO SCALE

