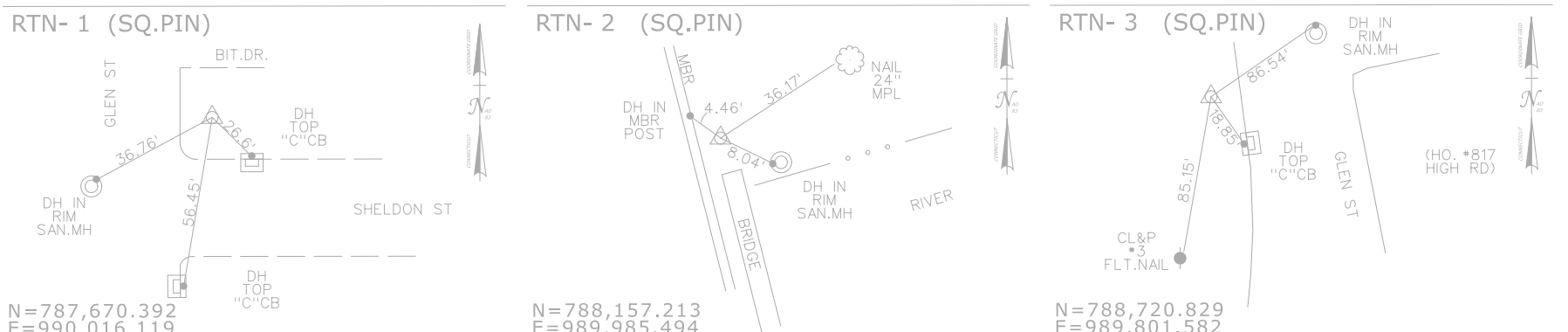


SUBSET 03 - HIGHWAY INDEX OF DRAWINGS			
DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
INX-03	INDEX OF DRAWINGS	PLN-01	ROADWAY PLAN
ALN-01	ALIGNMENT PLAN	PRO-01 TO PRO-02	PROFILE PLANS
GMP-01	GEOTECHNIAL MONITORING POINTS PLAN	DRG-01	GRADING, DRAINAGE, & UTILITY PLAN
TYP-01	TYPICAL SECTIONS	LDS-01	LANDSCAPE PLAN
MDS-01 TO MDS-08	MISCELLANEOUS DETAIL SHEETS	XS-01 TO XS-05	CROSS SECTIONS

DESIGNED BY:
JACOBS
100 GREAT MEADOW ROAD
SUITE 707
WETHERSFIELD, CT 06109



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

Jacobs
Jacobs Engineering Group, Inc.
100 Great Meadow Rd., Suite 707
Wethersfield, CT 06109

**CONNECTICUT
DEPARTMENT OF
TRANSPORTATION**

DESIGNER/DRAFTER: CJS

CHECKED BY: RGC

0 40' 80'

HORIZONTAL SCALE
1" = 40'

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER**

TOWN(S):

BERLIN

DRAWING TITLE:

ALIGNMENT PLAN

PROJECT NO.:

0007-0266

DRAWING NO.:

ALN-01

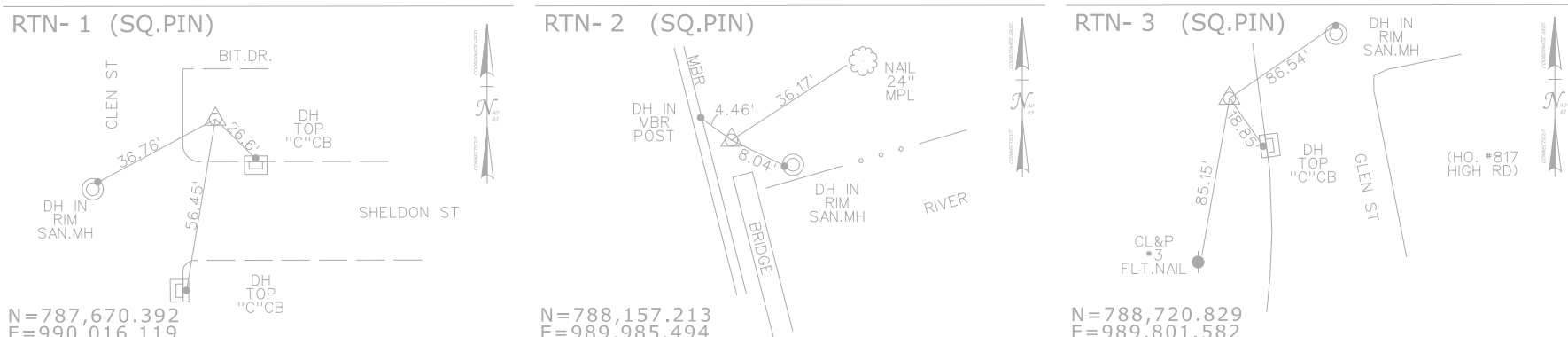
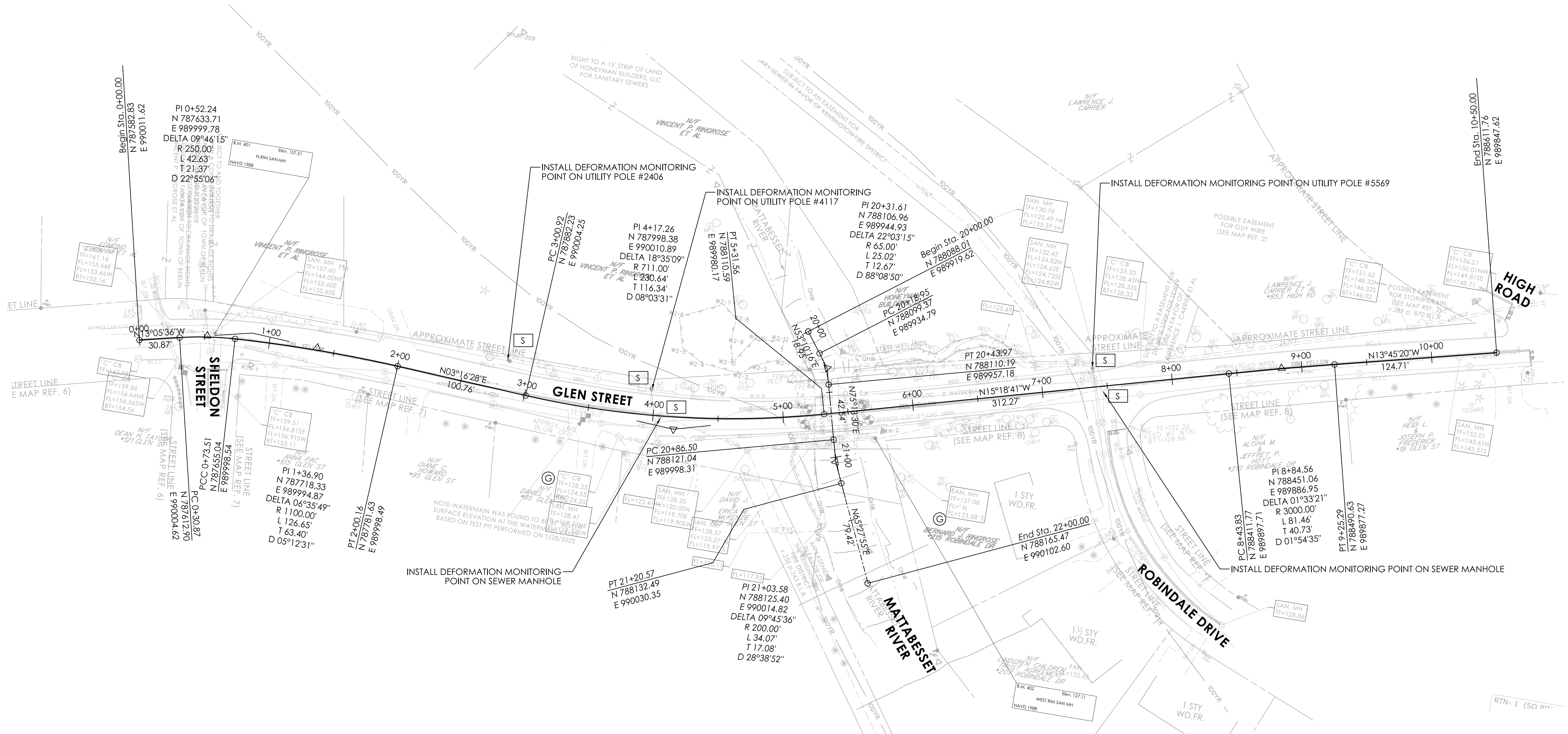
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03.02

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PLOTTED DATE: 9/23/2025



- LEGEND**
- ⊙ GEOPHONE FOR MONITORING VIBRATIONS - VIBRATION MONITORING POINT (VMP)
 - S DEFORMATION MONITORING POINT (DMP)

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HORIZONTAL SCALE
1" = 40'

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TRANSPORTATION

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER**

TOWN(S):
BERLIN

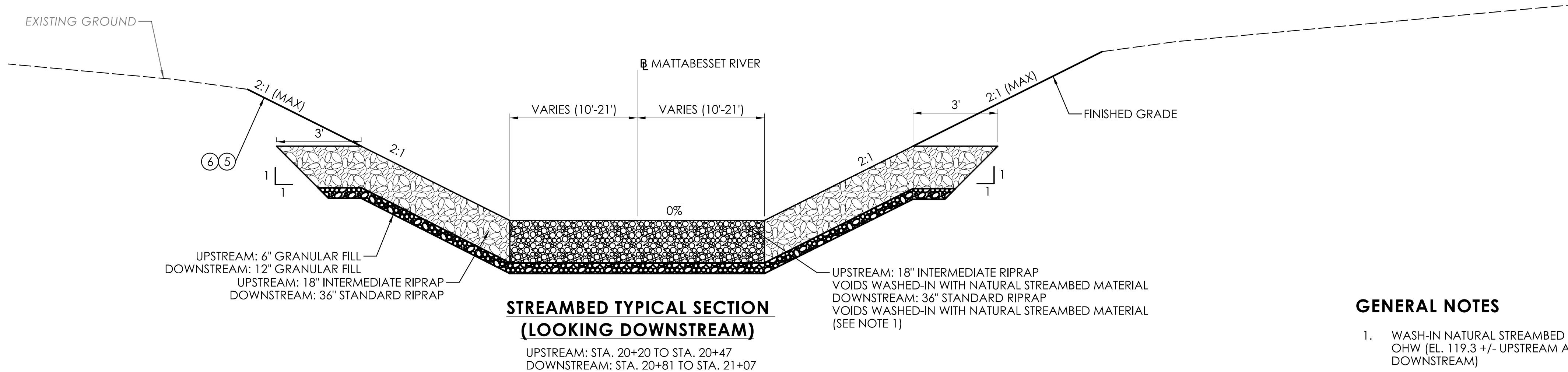
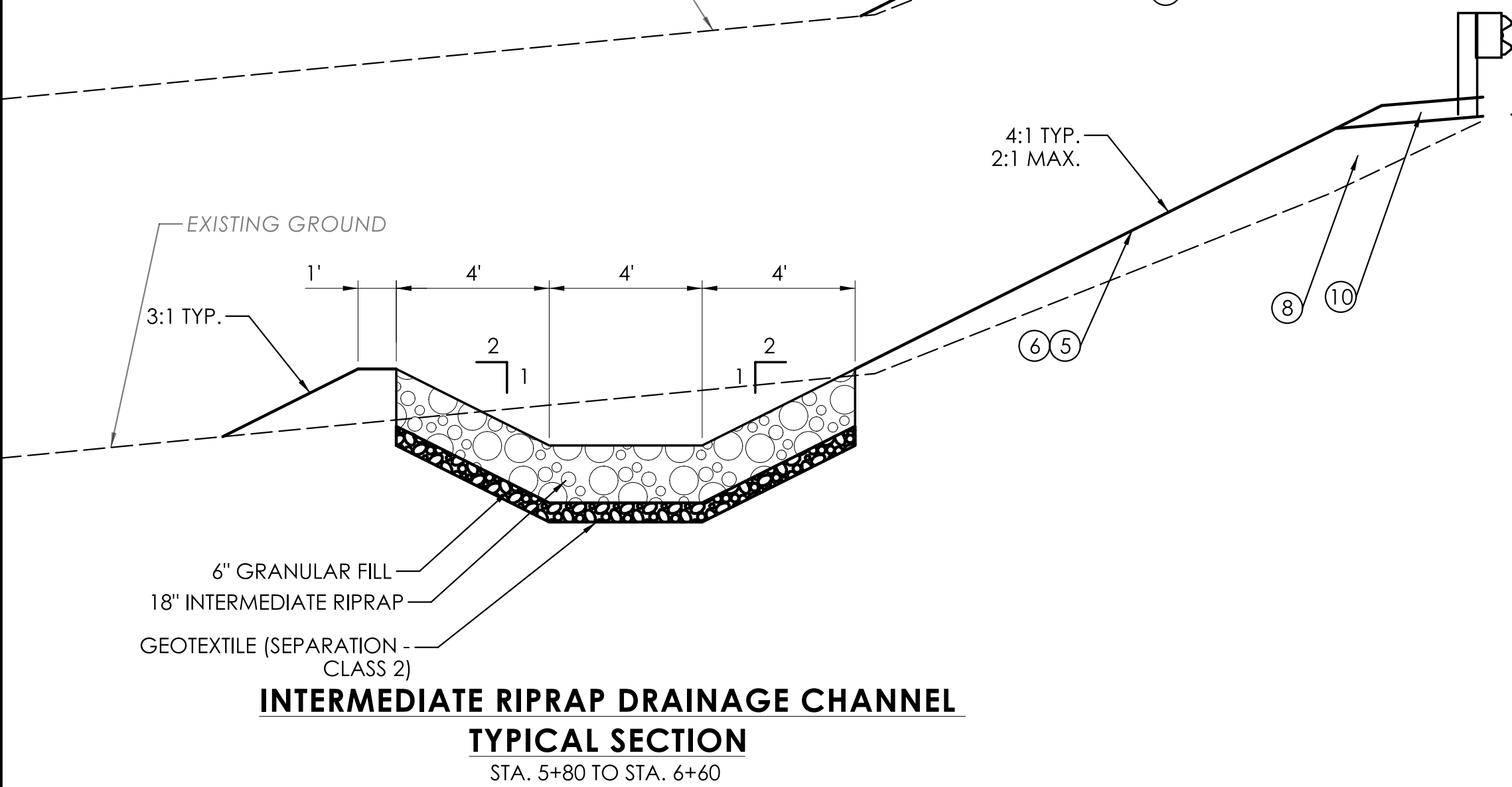
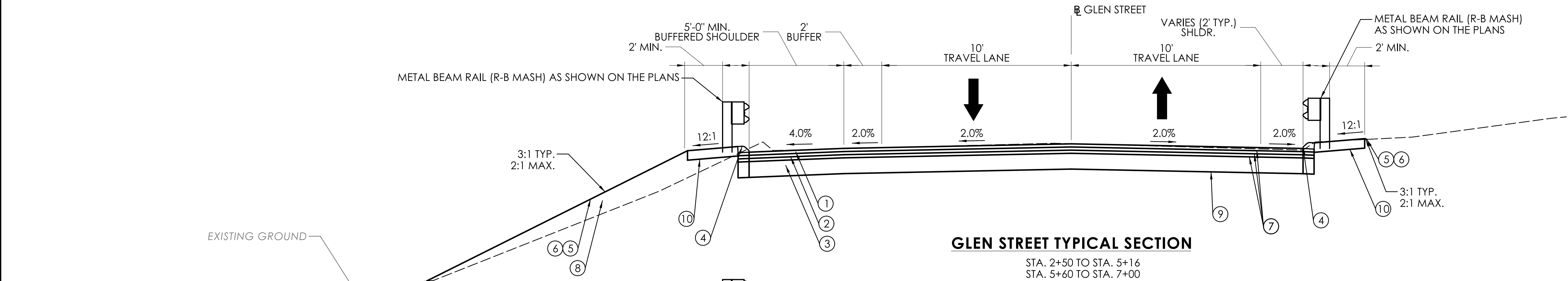
DRAWING TITLE:
**GEOTECHNICAL
MONITORING POINTS
PLAN**

PROJECT NO.:
0007-0266

DRAWING NO.:
GMP-01
SHEET NO. 03.03

LEGEND

- ① 2" HMA S0.5 - TRAFFIC LEVEL 2
- ② 4" HMA S1.0 - TRAFFIC LEVEL 2 (PLACED IN TWO EQUAL LIFTS)
- ③ 10" PROCESSED AGGREGATE BASE
- ④ BITUMINOUS CONCRETE PARK CURBING
- ⑤ TURF ESTABLISHMENT - LAWN
- ⑥ FURNISHING AND PLACING 4" TOPSOIL
- ⑦ MATERIAL FOR TACK COAT
- ⑧ BORROW
- ⑨ FORMATION OF SUBGRADE
- ⑩ 6" PROCESSED AGGREGATE



GENERAL NOTES

- WASH-IN NATURAL STREAMBED MATERIAL UP TO OHW (EL. 119.3 +/- UPSTREAM AND EL. 117.8 +/- DOWNSTREAM)

REV.	DATE	REVISION DESCRIPTION

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Jacobs Engineering Group, Inc.
100 Great Meadow Rd., Suite 707
Wethersfield, CT 06109

CONNECTICUT
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PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER**

TOWN(S):
BERLIN

DRAWING TITLE:
TYPICAL SECTIONS

PROJECT NO.:
0007-0266

DRAWING NO.:
TYP-01
SHEET NO.:
03.04

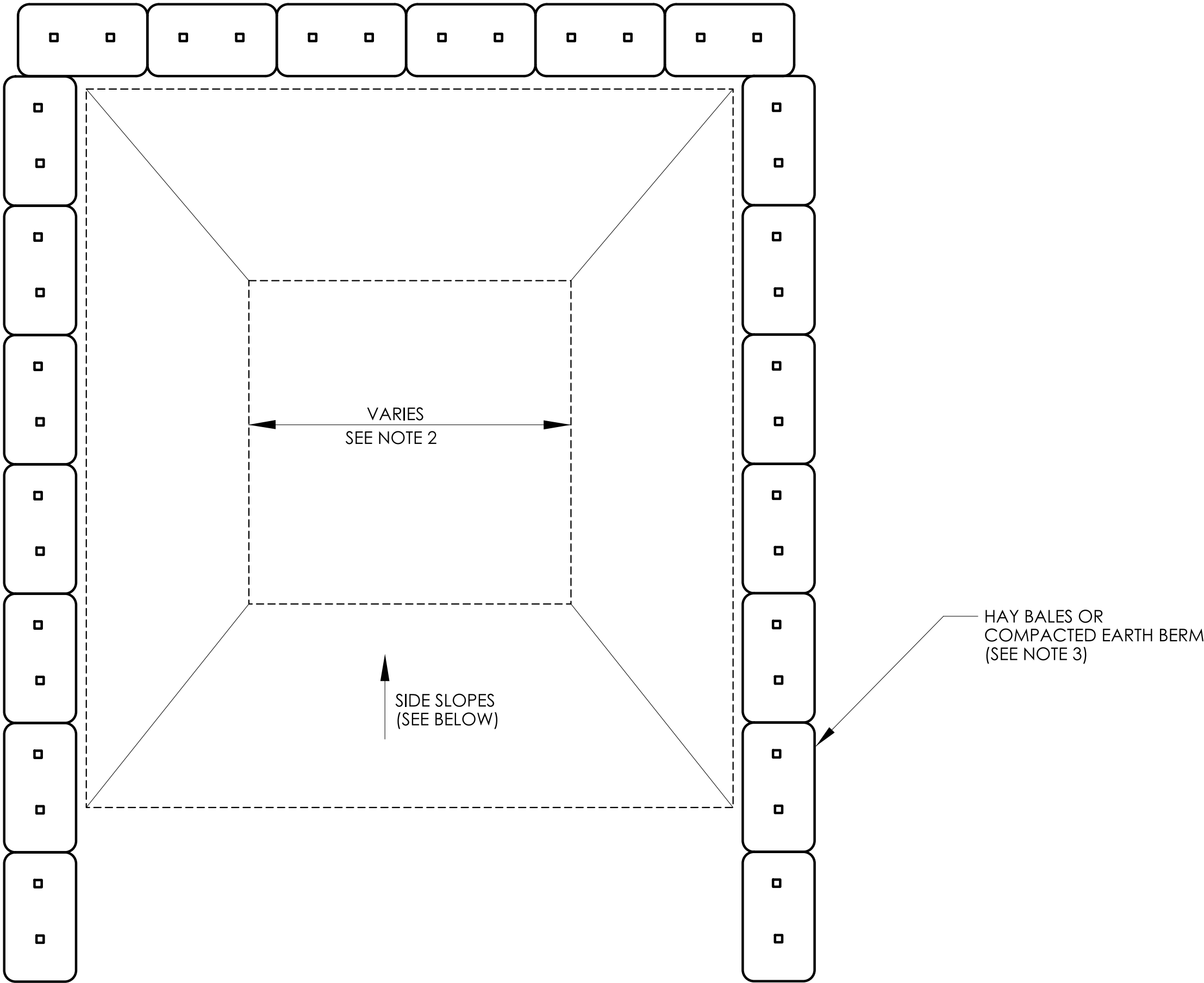
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PLOTTED DATE: 10/6/2025

GENERAL NOTES:

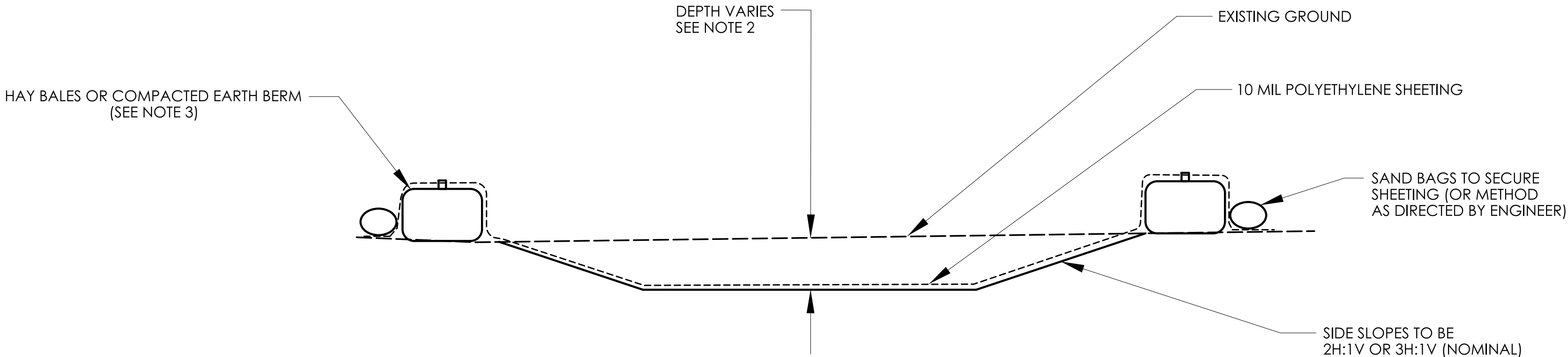
1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.

LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN.

SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.
5. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAINS.
6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S DEPTH. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.
7. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.



PLAN



CONCRETE WASHOUT AREA

NOT TO SCALE
(SEE NOTE 2)

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100 Great Meadow Rd., Suite 707
Wethersfield, CT 06109

DESIGNER/DRAFTER: CJS
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SCALE AS NOTED



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER

TOWN(S):

BERLIN

DRAWING TITLE:

MISCELLANEOUS DETAIL
SHEETS

PROJECT NO.:

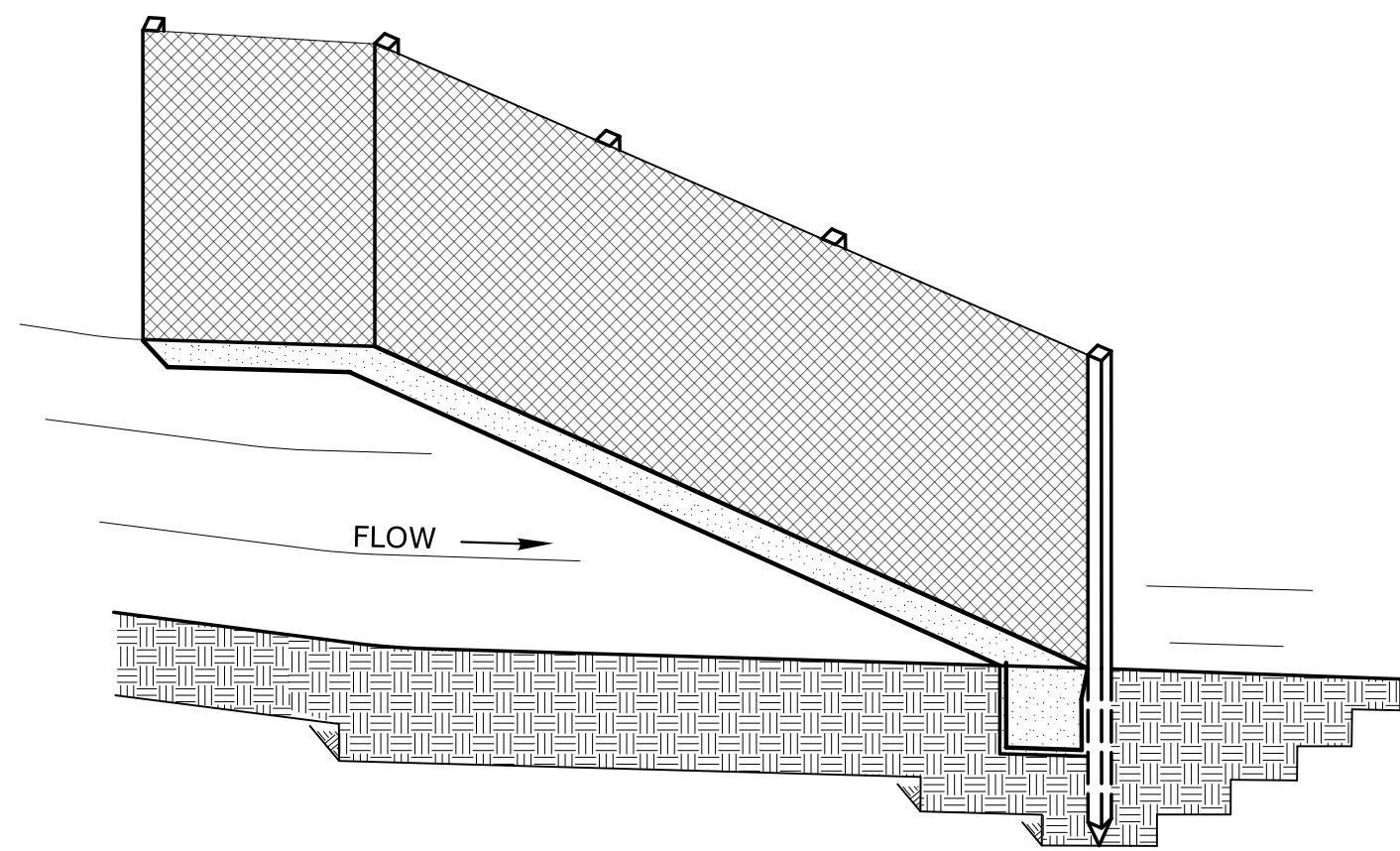
0007-0266

DRAWING NO.:

MDS-01

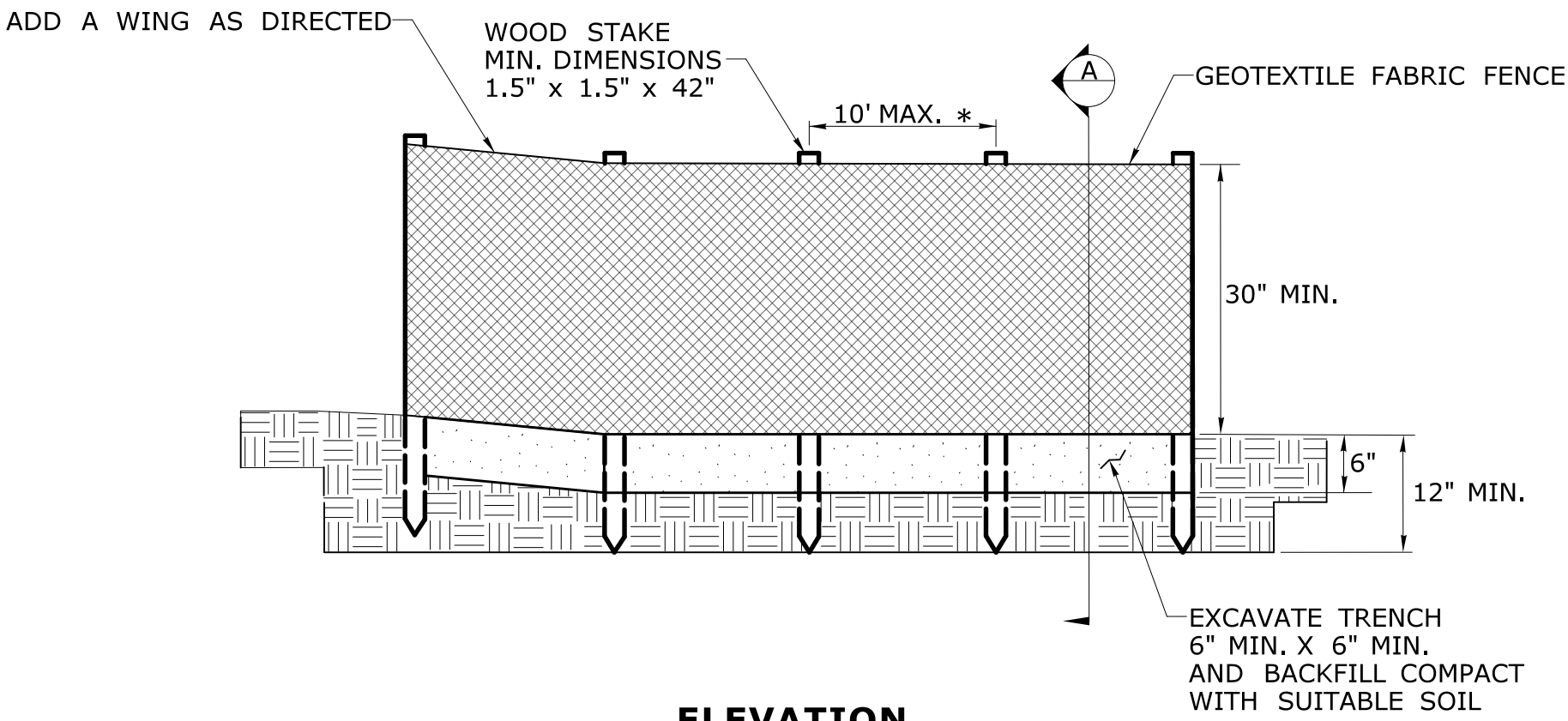
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03.05



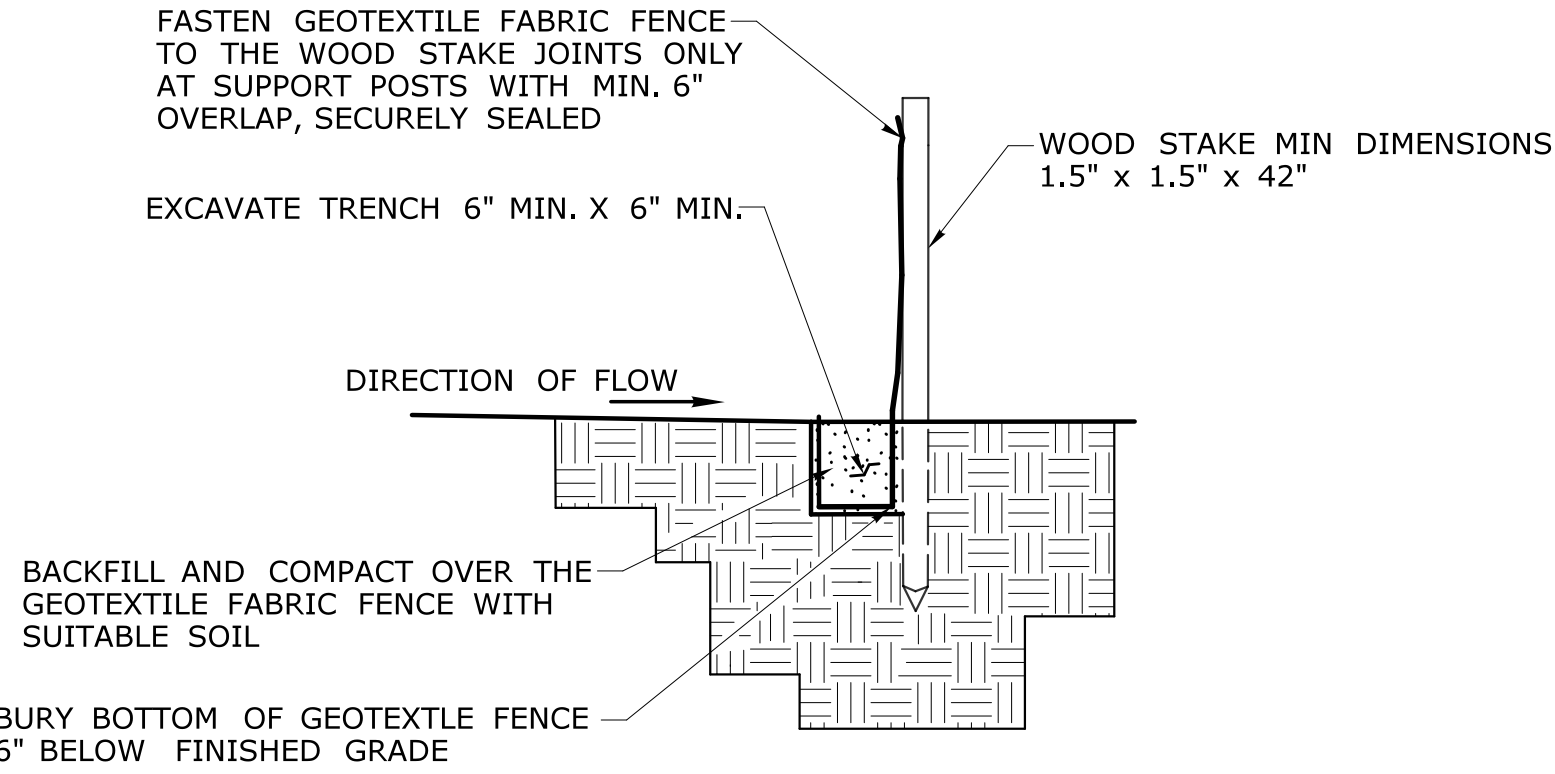
SEDIMENTATION CONTROL SYSTEM

INSTALL THE WING WHEN THE FENCE IS MORE THAN 4' FROM THE TOE OF SLOPE AND THE FENCE LINE GRADIENT IS 5% OR MORE

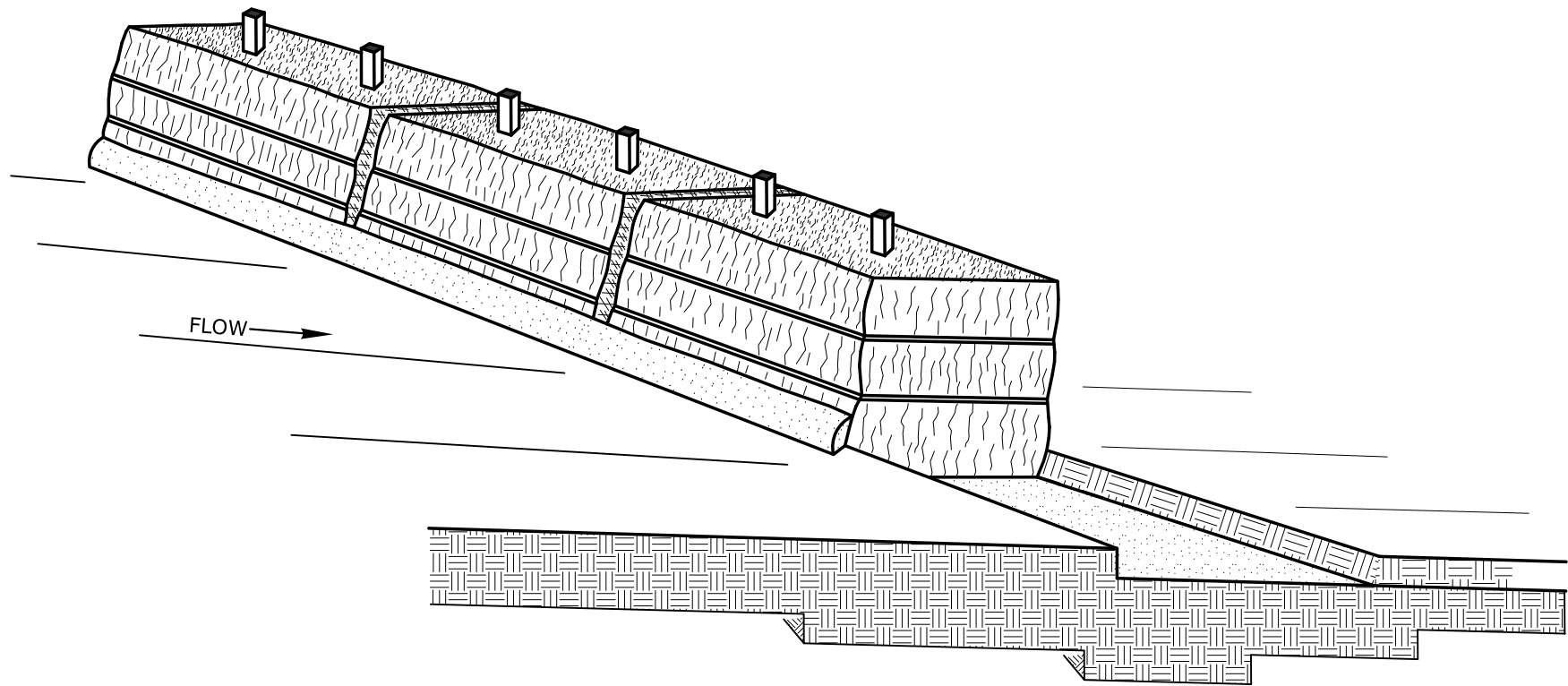


ELEVATION

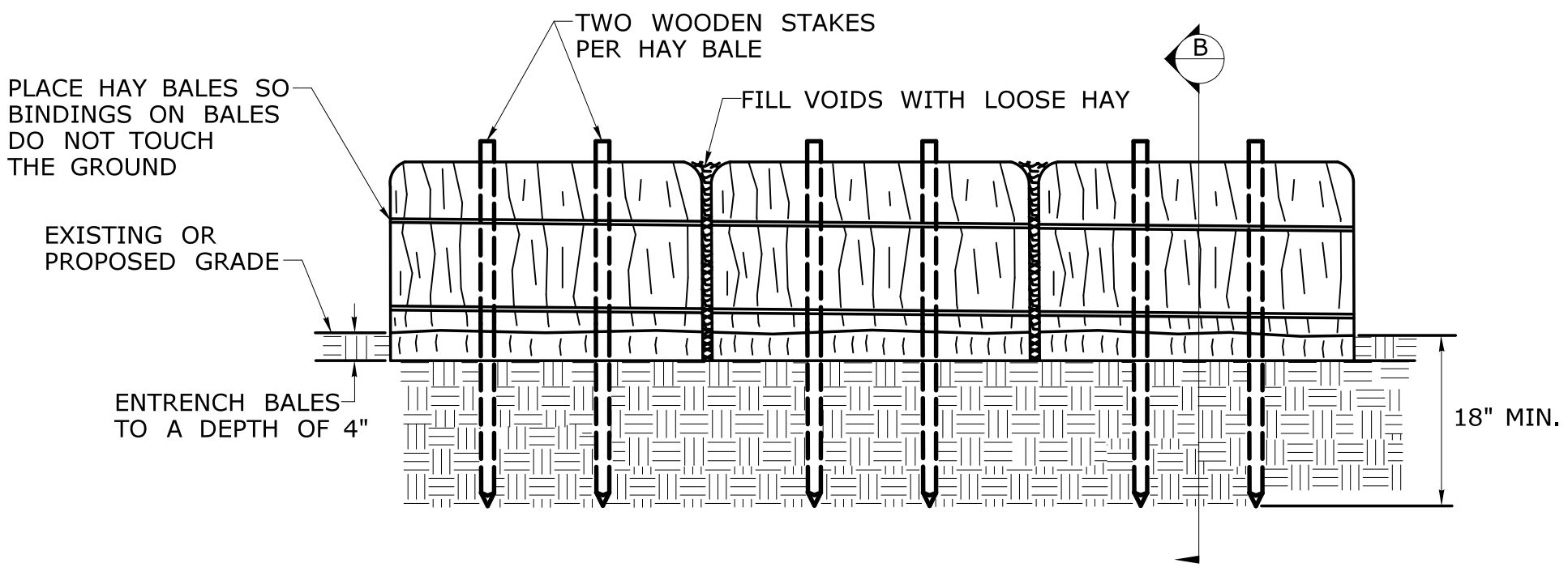
* FOR SLOPES STEEPER THAN 2:1
USE A 5' POST SPACING OR AS
DIRECTED BY THE ENGINEER



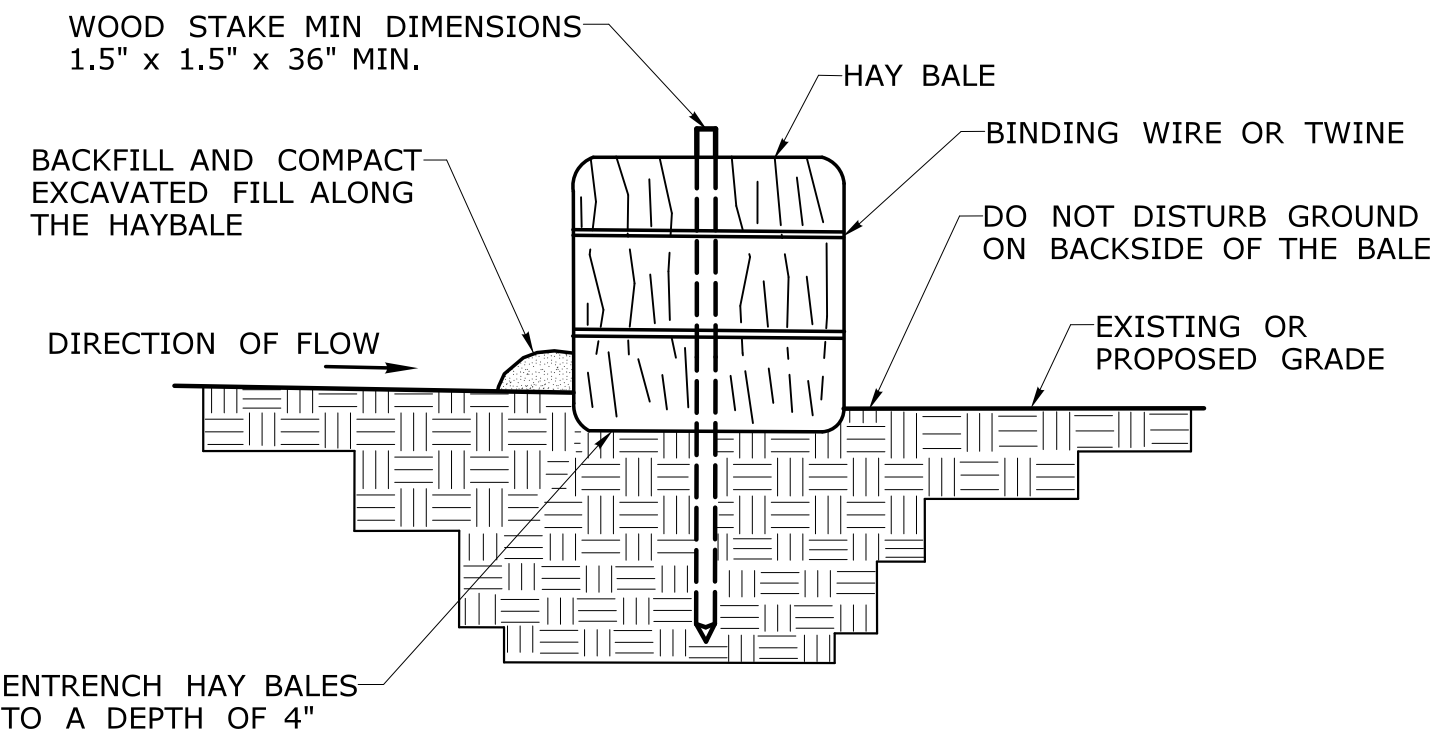
SECTION A



SEDIMENTATION CONTROL SYSTEM



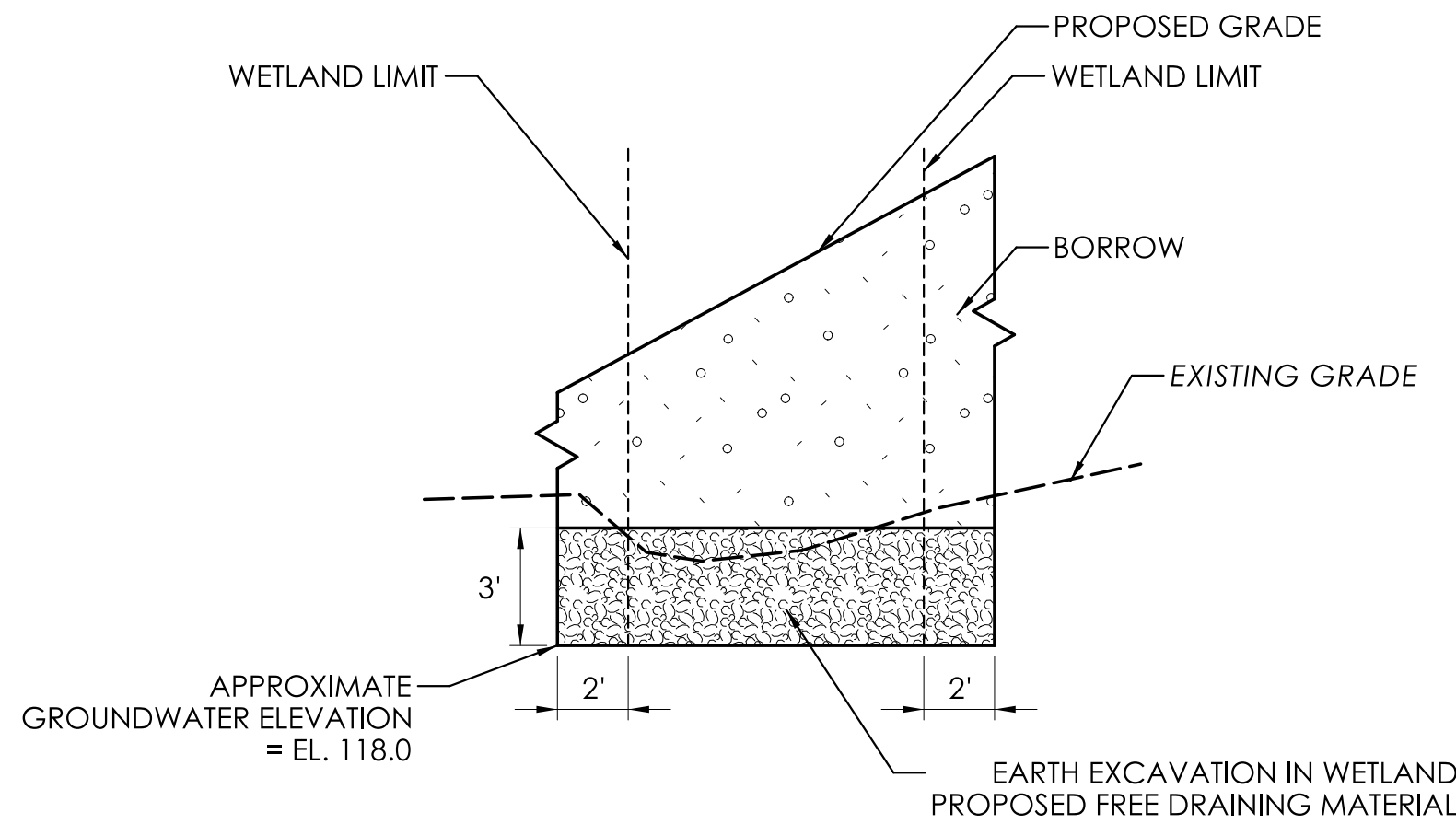
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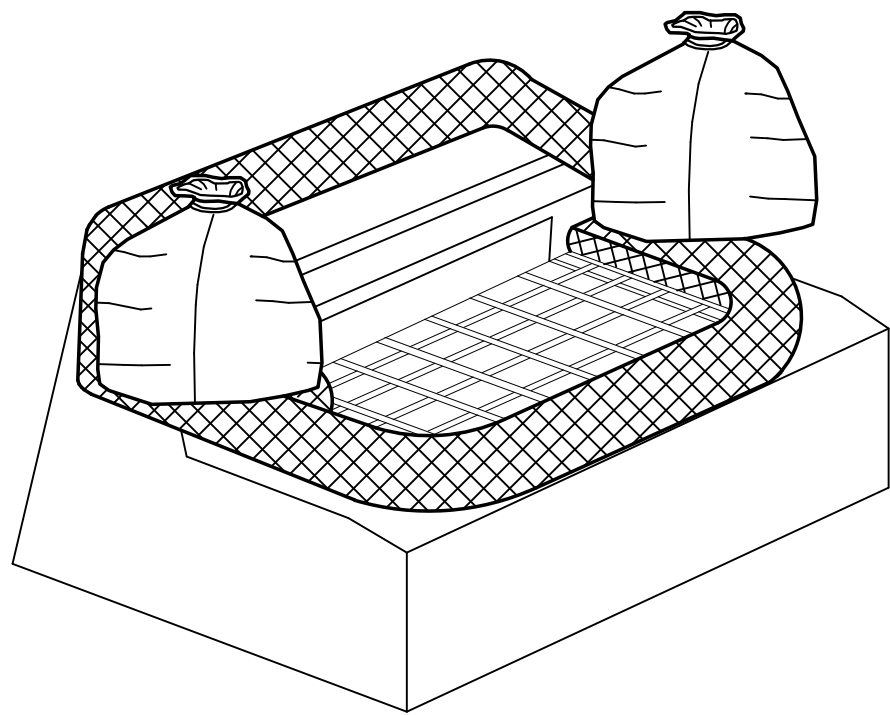
SECTION B

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:		PROJECT TITLE:		TOWN(S):		DRAWING TITLE:		PROJECT NO.:		DRAWING NO.:	
 Jacobs Jacobs Engineering Group, Inc. 100 Great Meadow Rd., Suite 707 Wethersfield, CT 06109		 CONNECTICUT DEPARTMENT OF TRANSPORTATION		REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER MATTABESSET RIVER		BERLIN		MISCELLANEOUS DETAIL SHEETS		0007-0266	
DESIGNER/DRAFTER: CJS		CHECKED BY: RGC		SCALE AS NOTED		SHEET NO.:		03.06		MDS-02	

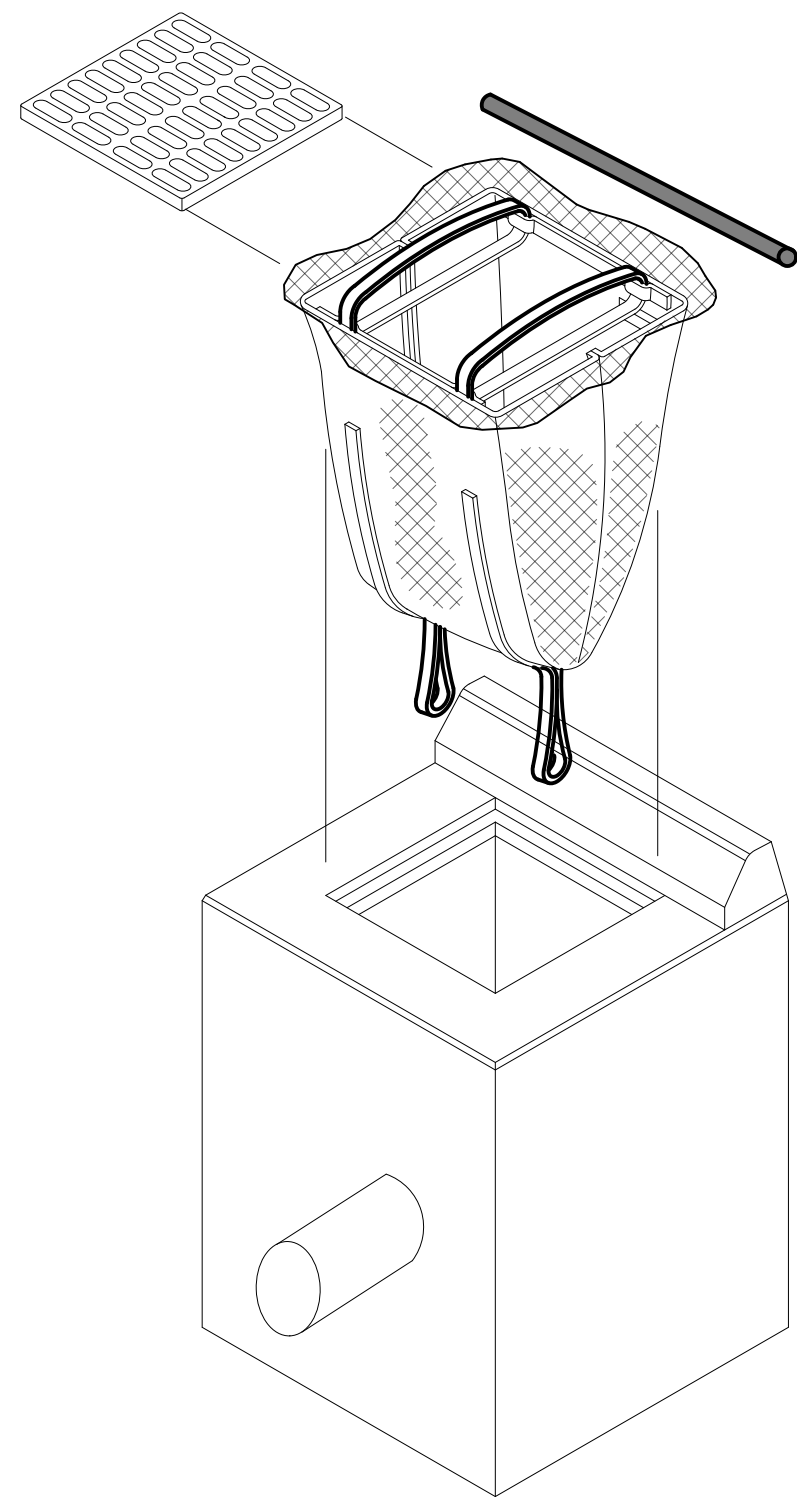


WETLAND EXCAVATION DETAIL



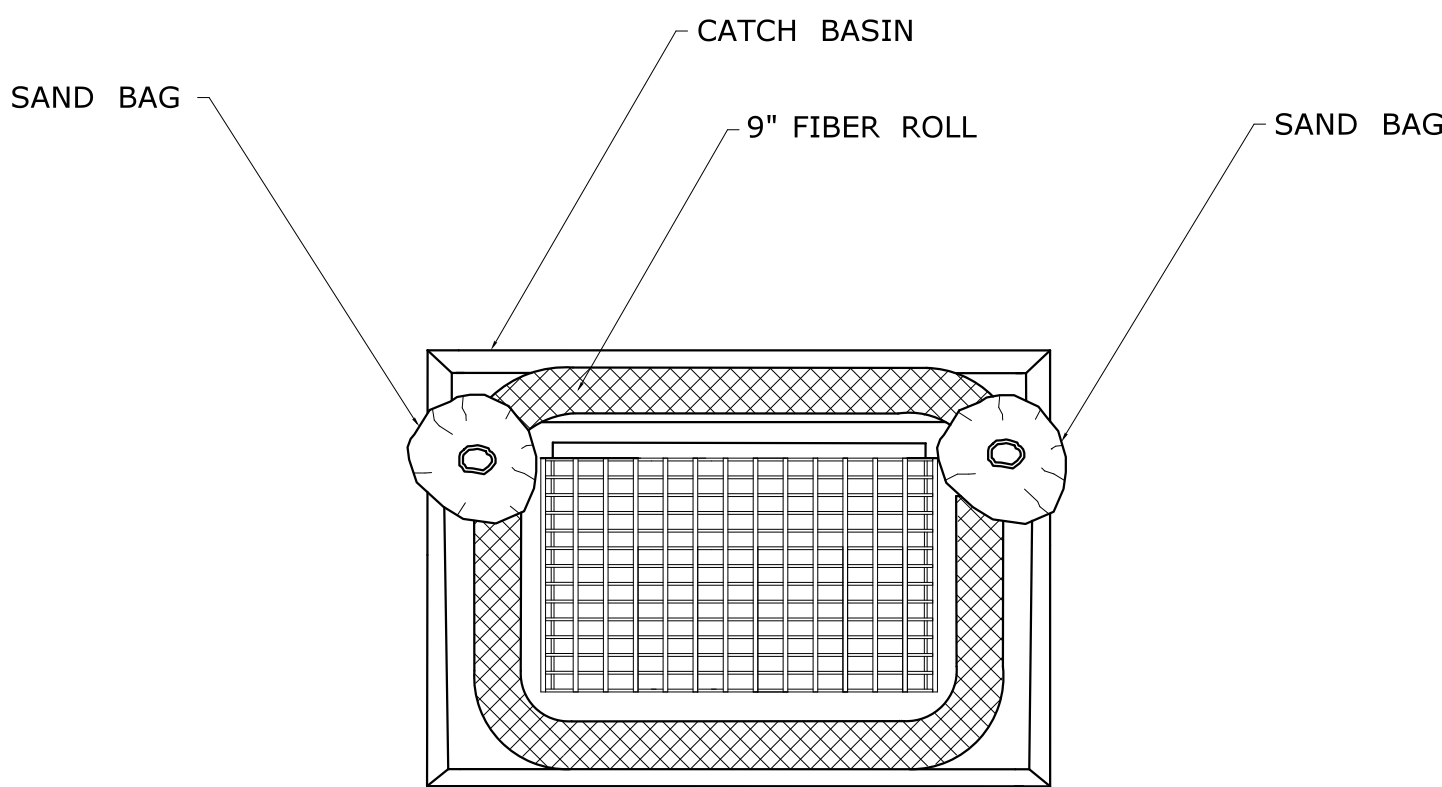
FIBER ROLL AROUND
TYPE "C" OR "C-L" CATCH BASIN TOP

NOTE: THIS ITEM WILL BE MEASURED BY EACH SEDIMENT
CONTROL SYSTEM AT CATCH BASIN

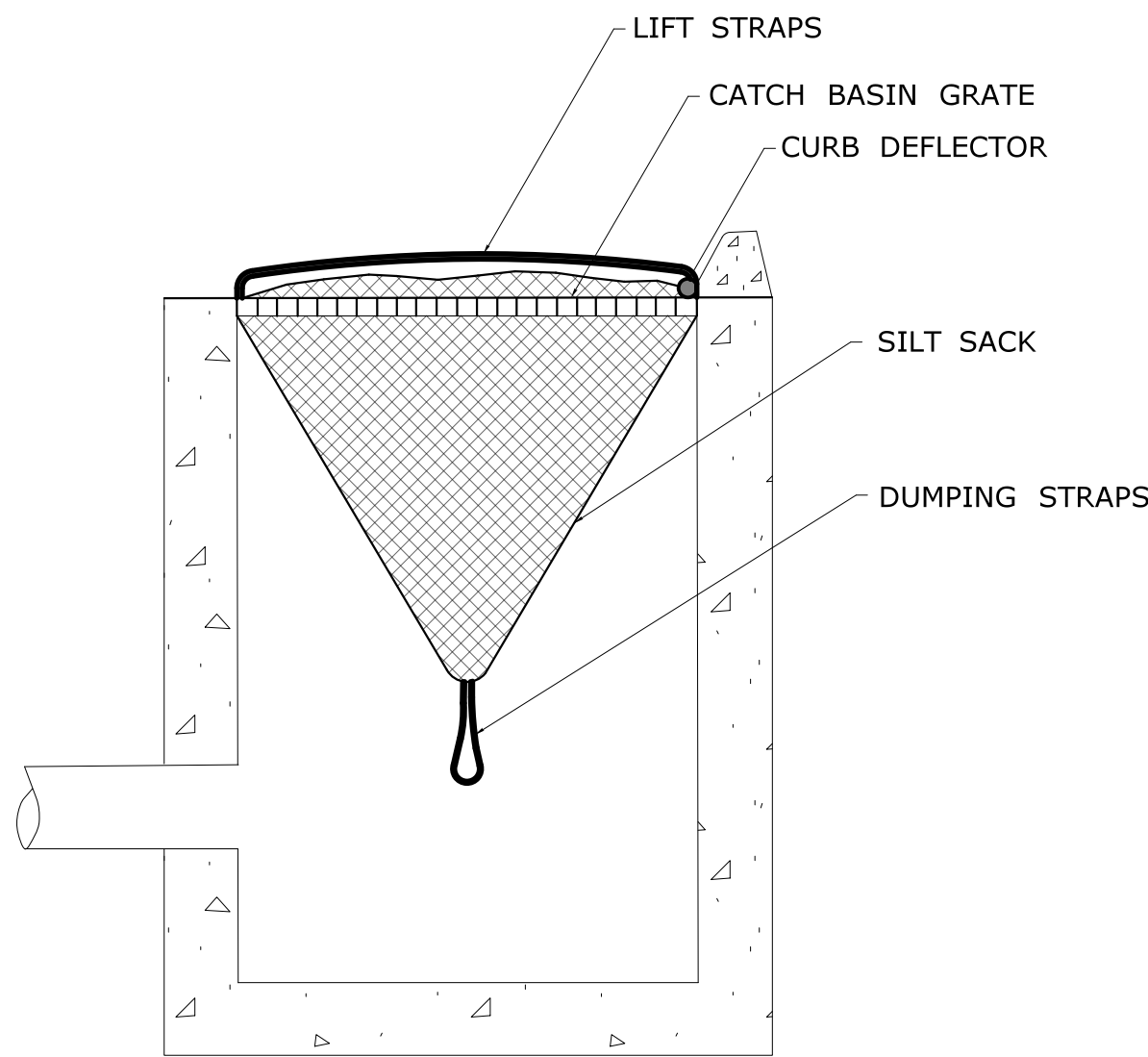


INLET SEDIMENT CONTROL DEVICE
AT TYPE "C" OR "C-L" CATCH BASIN

NOTE: THIS ITEM WILL BE MEASURED BY EACH SEDIMENT
CONTROL SYSTEM AT CATCH BASIN



PLAN



SECTION

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: DESIGNER/DRAFTER: CJS CHECKED BY: RGC		SCALE AS NOTED		PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER MATTABESSET RIVER		TOWN(S): BERLIN		DRAWING TITLE: MISCELLANEOUS DETAIL SHEETS		PROJECT NO.: 0007-0266		DRAWING NO.: MDS-03 SHEET NO.: 03.07	
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The drawing consists of two parts: a cross-section labeled 'SECTION A-A' and a top-down view labeled 'PLAN'.

SECTION A-A: This vertical cross-section shows the internal components of the valve. Key dimensions include:

- Overall height: 2'-0"
- Distance from top to first flange: 3'-4"
- Distance between flanges: 2"
- Top flange thickness: 1" (R) (TYP.)
- Distance from top flange to next flange: 5 1/8"
- Distance between flanges: 8"
- Distance from flange to bottom: 9-1/2"
- Bottom flange thickness: 7/8"
- Bottom flange diameter: L 7/8"

PLAN: This top-down view shows the circular valve body with a central crosshair indicating the center. Section lines 'A-A' are shown as arrows pointing towards the section.

NOTE:

1. FOR USE ON 8" AND SMALLER GATE VALVES AND ALL BUTTERFLY VALVES

WATER

COVER

2'-0"-MIN.

APPROVED GATE BOX TOP SECTION

IF THE OPERATING NUT ON VALVE IS 4"-6" OR MORE BELOW GRADE, PROVIDE GATE NUT EXTENSION STEM FOR GATE BOX

GATE VALVE DIRECTION TO OPEN AS DIRECTED BY DISTRICT

APPROVED GATE BOX BOTTOM SECTION

D.I. WATER MAIN

D.I. WATER MAIN

MECH. JOINT ENDS WITH

TOP VIEW

2" LETTERS RAISED $\frac{1}{4}"$

3/4"

1/2"

SECTION A-A

1-3/4"

3/4"

1/2"

3/4"

1/4" (R)

5/16"

SECTION B-B

1/2"

1/2"

1/2"

1/2"

5/16"

6-5/16" ø

6-1/2" ø

BOTTOM VIEW

LEGS

SIDE VIEW

7-3/4" ø

6-5/16" ø

6-1/2" ø

5/16"

1-5/8"

1"

1-1/4"

DETAIL

1-1/2"

1-3/8"

1-5/8"

2-1/4"

1"

5/8"

NOTES:

1. APPROXIMATE WEIGHT 20 LBS.
2. FOR NEW CONSTRUCTION.

COVER

FINISHED GRADE ROAD SURFACE

3- $\frac{3}{4}$ "

7- $\frac{1}{4}$ "

6- $\frac{3}{8}$ "

7 $\frac{1}{16}$ "

6"

5 $\frac{1}{16}$ "

25- $\frac{1}{2}$ "

WATER

COVER WITH 2 NOTCH OPENINGS

TOP SECTION

40"

BOTTOM SECTION

5 $\frac{1}{16}$ "

8" TO BE USED FOR 8" GATE VALVE AND SMALLER AND ALL BUTTERFLY VALVES.
10" TO BE USED FOR 10" GATE VALVES AND LARGER. SEE NOTE 1.

1. THE GATE BOX SHALL BE SET PLUMB AND CENTERED DIRECTLY OVER THE OPERATING NUT OF THE VALVE. THE CONTRACTOR SHALL USE A COMMERCIALY AVAILABLE CENTERING DEVICE TO PREVENT DAMAGE TO THE TOP OF THE VALVE AND MAINTAIN ALIGNMENT.

NOTES:

- ALL PIPING, FITTINGS AND VALVES SHALL BE RESTRAINED JOINTS.
- MINIMUM DIMENSION FROM BOTTOM OF CONCRETE BLOCKS TO TOP OF 8" OR 10" DI SHALL BE 18 INCHES.

1. ALL PIPING, FITTINGS AND VALVES SHALL BE RESTRAINED JOINTS.
2. MINIMUM DIMENSION FROM BOTTOM OF CONCRETE BLOCKS TO TOP OF 8" OR 10" DI SHALL BE 18 INCHES.
3. MANHOLE RISER SHALL MEET THE REQUIREMENTS OF TYPE II PRECAST CONCRETE RISER SECTIONS. MANHOLE STEPS ARE NOT REQUIRED.
4. CUT AND REMOVE $\frac{1}{2}$ " OR $\frac{3}{4}$ " SECTION OF GASKET SO WATER WILL DRAIN FROM STANDPIPE.

Diagram illustrating the components and dimensions of a water main gate valve assembly. The assembly is shown in cross-section, installed in a trench. The components labeled are:

- 12" MAX. (Maximum depth of the gate box)
- FINISHED GRADE
- THREADED CAP
- OPERATING ROD
- BACKFILL MATERIAL SHALL BE BANK-RUN GRAVEL IN PAVED AREAS OR COMMON FILL IN UNPAVED AREAS.
- APPROVED GATE BOX
- ONLY COPPER TUBING
- WEDGE VALVE
- WOOD BLOCK SPACER
- CORPORATION COCK
- WATER MAIN

Table of dimensions:

MAIN SIZE	CORPORATION COCK	WEDGE VALVE
6" - 12"	$\frac{3}{4}$ " x 1"	1"
16" - 42"	$1\frac{1}{2}$ " x 2"	2"

1. CANNOT BE USED FOR FUTURE SERVICE.
2. A CHLORINATION/SAMPLING ASSEMBLY SHALL BE REMOVED ONCE WATER MAIN PASSES SAMPLING. CORPORATION SHALL EITHER BE CONVERTED TO AIR VALVE OR ABANDONED PRIOR TO FINAL PAVEMENT RESTORATION.

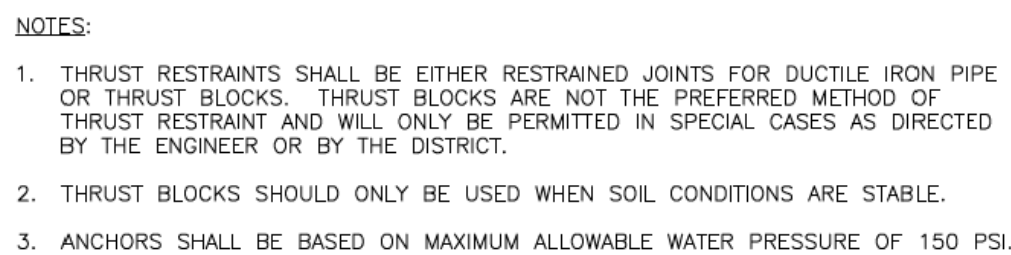


Diagram illustrating the installation of a corporation cock in a pipe, showing the connection to the finished grade and the approved gate box.

NOTES:

1. CANNOT BE USED AS FUTURE SERVICE.
2. CORPORATION COCKS FOR AIR VALVES TO BE RATED 250 PSI MINIMUM.

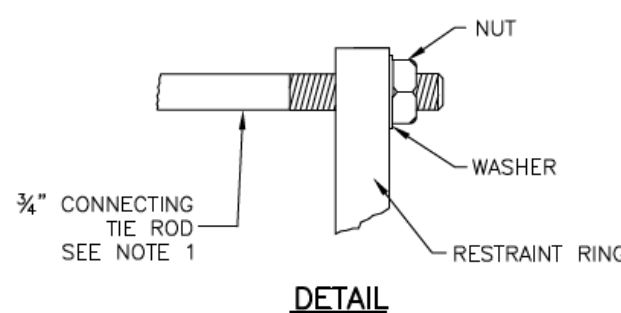
Labels in the diagram:

- FINISHED GRADE
- APPROVED GATE BOX
- ANGLE VALVE ON CORPORATION COCK FOR AIR VALVE
- AWWA (CC) TAPER THREAD

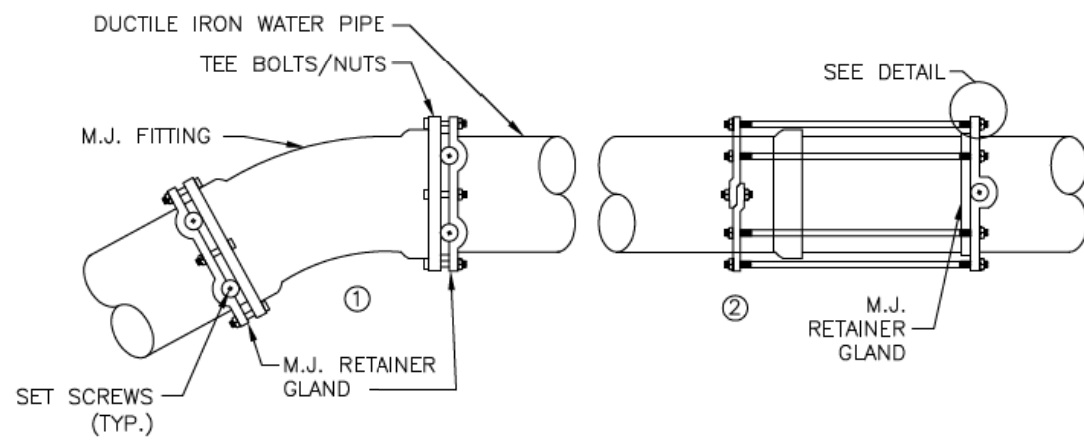
1. CANNOT BE USED AS FUTURE SERVICE.
2. CORPORATION COCKS FOR AIR VALVES TO BE RATED 250 PSI MINIMUM.

MAIN SIZE	MIN. SIZE AIR VALVE	CORPORATION COCK	ANGLE VALVE SIZE
6" - 12"	$\frac{3}{4}$ "	$\frac{3}{4}$ " x 1"	1"
16" & 20"	1"	1" x 1"	1"
24" & 30"	1 - $\frac{1}{4}$ "	1 - $\frac{1}{4}$ " x 1 - $\frac{1}{2}$ "	1 - $\frac{1}{2}$ "
36" & 42"	1 - $\frac{1}{2}$ "	1 - $\frac{1}{2}$ " x 2"	2"
48" & 24"	2"	2" x 2"	2"

- ① MECHANICAL JOINT RETAINER GLANDS
- ② PUSH-ON JOINT RESTRAINT USING MECHANICAL JOINT RETAINER GLANDS



1. PROVIDE 12" MIN. LENGTH TIE RODS W/ NUTS AND WASHERS. TYPICAL TIE ROD LENGTH IS 24".



REVISION DESCRIPTION



Jacobs
Jacobs Engineering Group, Inc.
100 Great Meadow Rd., Suite 707
Wethersfield, CT 06109

SCALE AS NOTED



CONNECTICUT
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TRANSPORTATION

REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER MATTABESSET RIVER

BERLIN

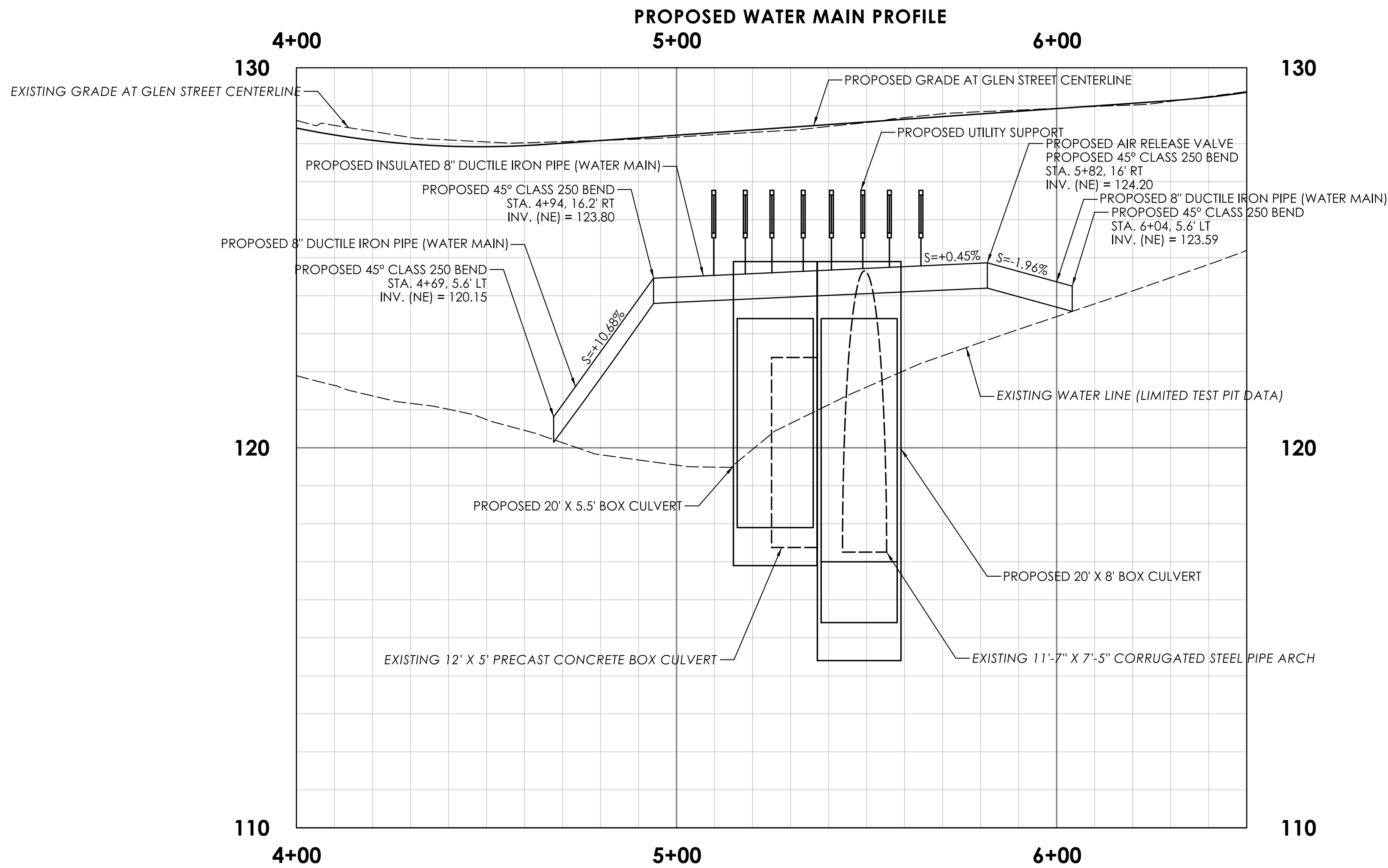
MISCELLANEOUS DETAIL SHEETS

0007-0266

MDS-04

03.08

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PLOTTED DATE: 9/23/2025



- GENERAL NOTES**
- SEE SHEET MDS-04 FOR WATER MAIN DETAILS.
 - SEE SHEET DRG-01 FOR WATER MAIN RELOCATION INFORMATION.
 - SEE SUBSET 4, SHEET S-13 FOR UTILITY SUPPORT DETAILS

KOR-N-SEAL BOOT

A-LOK SYSTEM

NOTE:

1. PACK NON-SHRINK GROUT AROUND ANNULAR AREA OF PIPE ON OUTSIDE OF STRUCTURE PRIOR TO BACKFILLING.

PIPE CONNECTIONS TO PRECAST CONCRETE STRUCTURES

CONNECTION OF PIPES TO MANHOLE WALL TO BE MADE WITH FLANGE TYPE OF SEAL APPROVED BY THE ENGINEER.

SECTION C-C

NOTES:

1. MAXIMUM PIPE SIZE TO BE INSTALLED IN 48" MANHOLE BASE SHALL BE 18".
2. REFER TO SEWER TRENCH DETAIL FOR BACKFILLING AND COMPACTION REQUIREMENTS AROUND SEWER MANHOLES.
3. INVERT THROUGH THE MANHOLE SHALL HAVE A UNIFORM GRADE OF MINIMUM 0.10 FEET BETWEEN THE INVERTS OF THE INLET AND OUTLET PIPES. INVERTS SHALL BE FIELD FORMED AND NOT FORMED IN SHOP/YARD.
4. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN THE INVERT OF THE TRIBUTARY INLET AND THE MANHOLE INVERT SHALL BE 18 INCHES. ELEVATION DIFFERENCES GREATER THAN 18 INCHES WILL REQUIRE A DROP CONNECTION.
5. DISTANCE FROM TOP OF MANHOLE COVER TO FIRST PLASTIC STEP SHALL BE BETWEEN 12" AND 16".

TYPE II PRECAST CONCRETE MANHOLE

STANDARD FRAME FOR EXISTING MANHOLES

Diagram showing the cross-section (A-A) and top view of a standard frame for existing manholes. The cross-section (A-A) shows a frame with a 34" outer diameter and a 25-1/16" inner diameter. The top view shows a 42" outer diameter and a 30" bolt circle. The frame is made of 1" diameter bonding holes.

STANDARD FRAME FOR NEW MANHOLES

Diagram showing the cross-section (B-B) and top view of a standard frame for new manholes. The cross-section (B-B) shows a frame with a 36" outer diameter and a 21-3/4" inner diameter. The top view shows a 48" outer diameter and a 45-1/2" square hole. The frame is made of 1-1/2" diameter bonding holes.

STANDARD MANHOLE FRAMES

[illegible]

NOTES:

1. MANHOLES COVERS MAY BE DESIGN WITH OR WITHOUT RIBS. THE TOP SURFACE OF THE MANHOLE COVER SHALL BE FLAT. THE BOTTOM SURFACE MAY OR MAY NOT BE FLAT.
2. PROVIDE ALTERNATIVE INSCRIPTION "STORM DRAIN" WHEN SPECIFIED.
3. THE LOWER SURFACE OF THE COVER AND THE CORRESPONDING UPPER SURFACE OF THE FRAME SHALL BE MATCHED/DESIGNED TO PROVIDE A FLAT CONTACT OR BE FLAT WITHOUT ANY TENDENCY FOR THE COVER OR GRATE TO ROCK OR RATTLLE. THE GAP BETWEEN THE COVER/GRATE AND FRAME SHALL BE NO MORE THAN $\frac{1}{8}$ " ALL AROUND.

STANDARD MANHOLE COVERS

PAVED UNPAVED

REFER TO PAVEMENT RESTORATION DETAILS AND LOCAL STANDARDS

EXISTING PAVEMENT

6" LOAM, FERTILIZE & SEED W/ GRASS, MULCH OR SOD

EXISTING GRASS AREA

UNDISTURBED MATERIAL

COMMON FILL SEE NOTES 1 AND 2

6" WIDE UNDERGROUND WARNING TAPE (NON-DETECTABLE)

GEOTEXTILE FABRIC WRAPPED AROUND CRUSHED STONE BEDDING W/ 12" MIN. OVERLAP IN ALL DIRECTIONS

TRENCH WIDTH VARIES SEE NOTE 3

12" MIN. O.D. 12" MIN.

SAND PLACED IN 12" LAYERS

24"

O.D.

6" MIN. IN EARTH 12" MIN. IN ROCK

CRUSHED STONE TO SPRINGLINE OR TOP OF PIPE SEE NOTE 6

UNDISTURBED OR SUITABLE COMPACTED MATERIAL

SEWER PIPE

BANK RUN GRAVEL SEE NOTES 1 AND 2

PROCESSED STONE BASE

SEWER TRENCH

NOTES:

1. ALL EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED.
2. BACKFILL MATERIAL SHALL BE APPROVED BANK RUN GRAVEL IN PAVED AREAS (INCLUDING DRIVEWAYS AND SIDEWALKS) OR COMMON FILL IN UNPAVED AREAS.
3. TRENCH WIDTH VARIES BASED ON PIPE SIZE AND DEPTH.
4. TRENCHES LOCATED IN THE ROAD SHOULDER SHALL BE TREATED THE SAME AS TRENCHES IN THE PAVED ROADWAY EXCEPT FOR PAVEMENT AND SURFACE RESTORATION WORK.
5. PROVIDE IMPERVIOUS TRENCH DAM(S) IN STONE BEDDING AS DIRECTED BY THE ENGINEER. SEE PIPE TRENCH DAM DETAIL.
6. CRUSHED STONE SHALL BE INSTALLED TO TOP OF PIPE FOR PVC AND DI PIPE AND TO SPRINGLINE FOR RCP PIPE.

SANITARY SEWER DETAILS

DEV	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:  Jacobs Engineering Group, Inc. 100 Great Meadow Rd., Suite 707 Wellesley, CT 06109	SCALE AS NOTED	 CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER MATTABESSET RIVER	TOWN(S): BERLIN	DRAWING TITLE: MISCELLANEOUS DETAIL SHEETS	PROJECT NO.: 0007-0266	DRAWING NO.: MDS-06
							SHEET NO.: 03.10
DESIGNER/DRAFTER: CJS CHECKED BY: RGC							

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PLOTTED DATE: 9/23/2025

Sanitary sewer layout plan showing existing and proposed infrastructure. The plan includes stationing (4+00 to 6+00) and elevations (110 to 130). Key features include:

- Sanitary Manhole (4' DIA.) 0 to 10 FT:** STA. 4+77.19, 1' RT, TF = 127.93, INV. IN (N) = 123.25, INV. OUT (S) = 123.00.
- Sanitary Manhole (4' DIA.) 0 to 10 FT:** STA. 6+10.18, 3' RT, TF = 128.50, INV. IN (N)(EX) = 123.90, INV. OUT (S) = 123.80.
- Existing Manhole (Sanitary Sewer):** INV (NW) = 122.40.
- Existing 10" Sanitary Sewer Main:** S = +8.41%.
- Existing 16" Ductile Iron Pipe (Sanitary Sewer):** S = +0.41%.
- Existing 12' x 5' Precast Concrete Box Culvert.**
- Existing 11'-7" x 7'-5" Corrugated Steel Pipe Arch.**
- Proposed 20' x 5.5' Box Culvert.**
- Proposed 20' x 8' Box Culvert.**
- Proposed Utility Support.**
- Existing Water Line (Limited Test Pit Data):** 16" Ductile Iron Pipe (Sanitary Sewer).

1. SEE SHEET MDS-06 FOR SEWER MAIN DETAILS.
2. SEE SHEET DRG-01 FOR SEWER MAIN RELOCATION INFORMATION.
3. SEE SUBSET 4, SHEET S-13 FOR UTILITY SUPPORT DETAILS

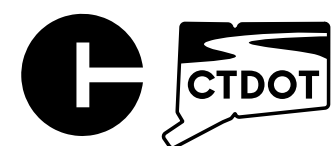
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 Wethersfield, CT 06109

DESIGNER/DRAFTER: CJS CHECKED BY: RGC

0 20 40
HORIZONTAL SCALE IN FEET

0 2 4
VERTICAL SCALE IN FEET



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PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER**

TOWN(S): **BERLIN**

DRAWING TITLE:

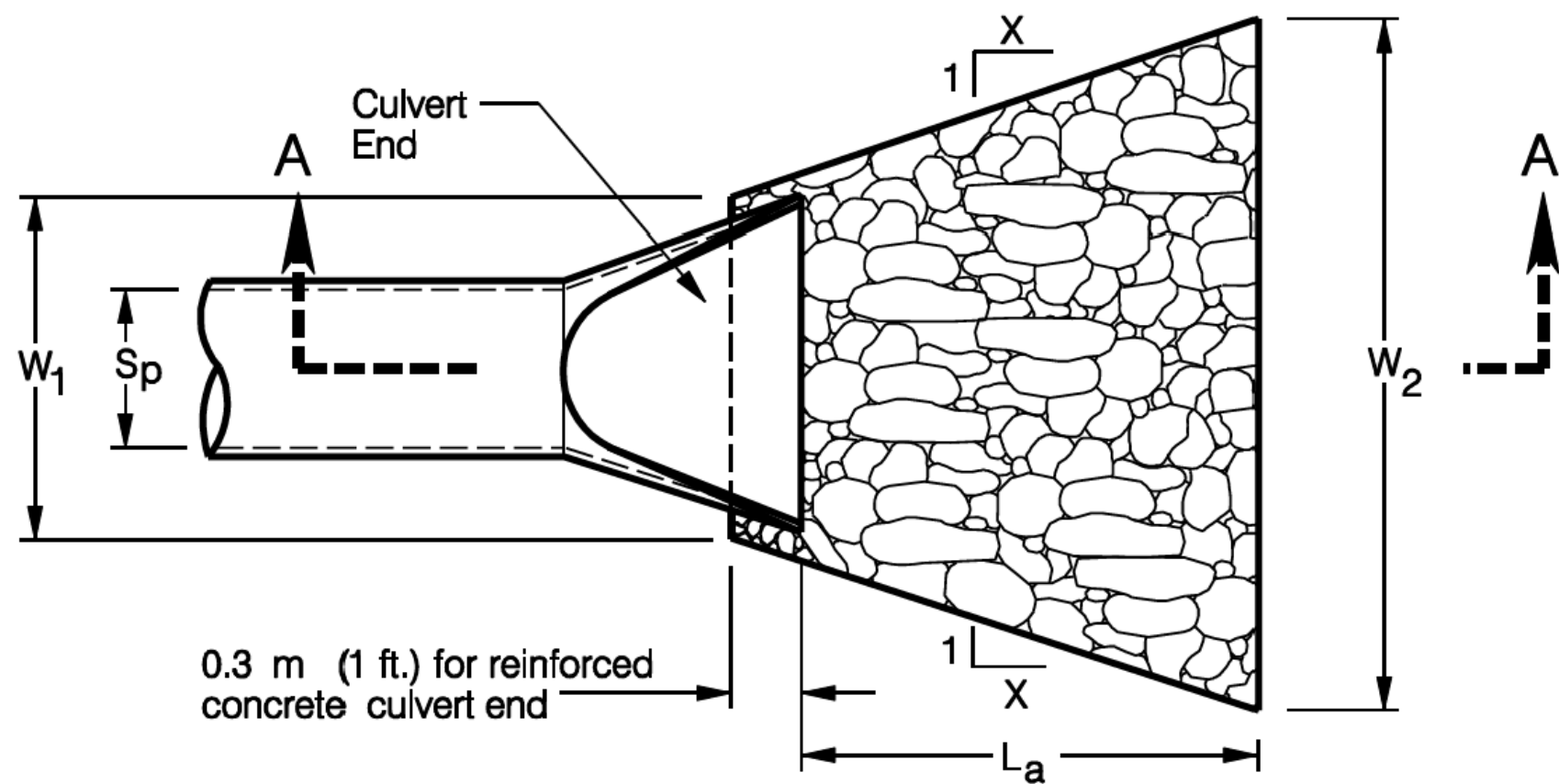
**MISCELLANEOUS DETAIL
SHEETS**

PROJECT NO.:	D
0007-0266	S

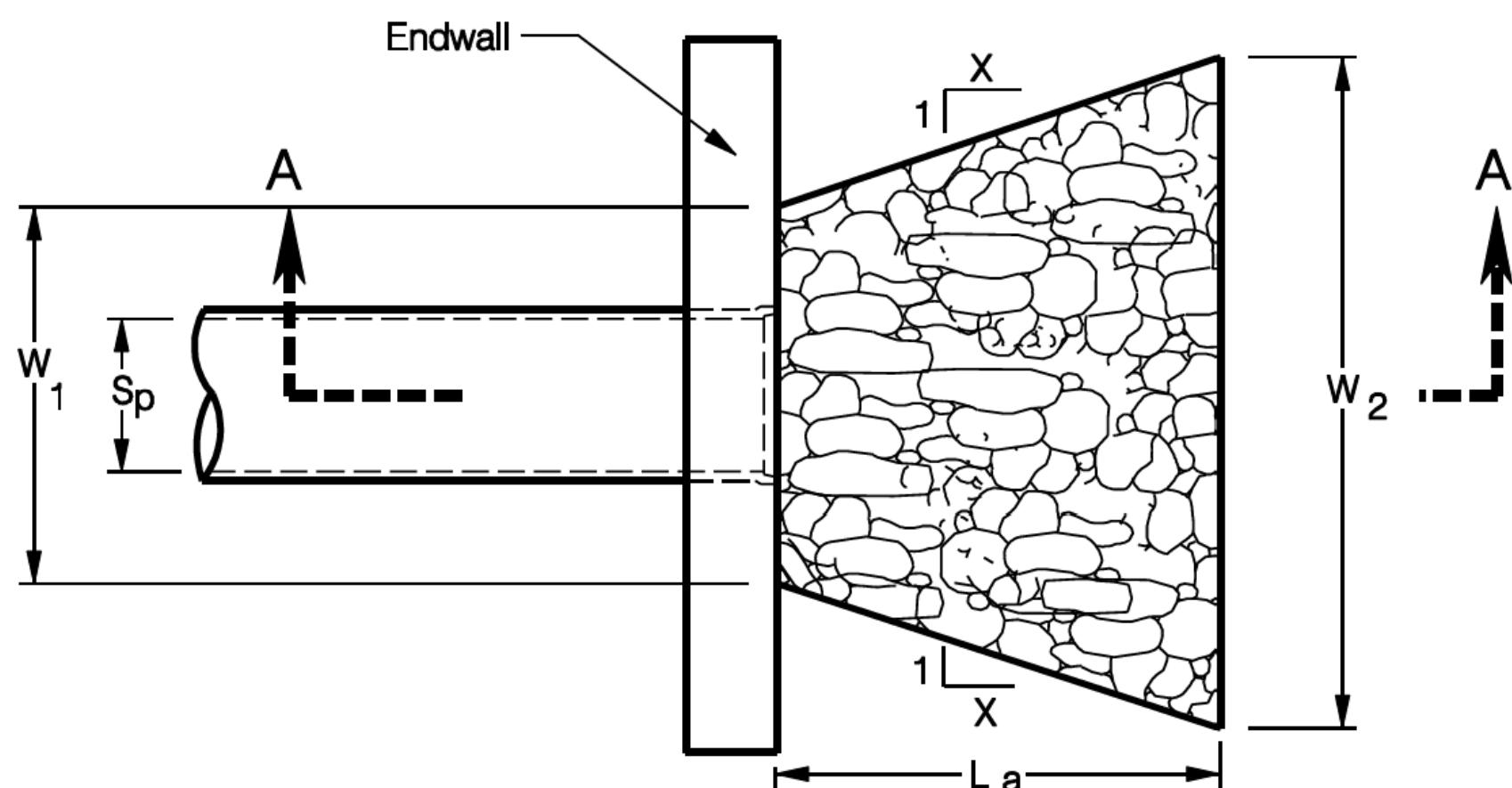
DRAWING NO.:
MDS-07

SHEET NO.:
03.11

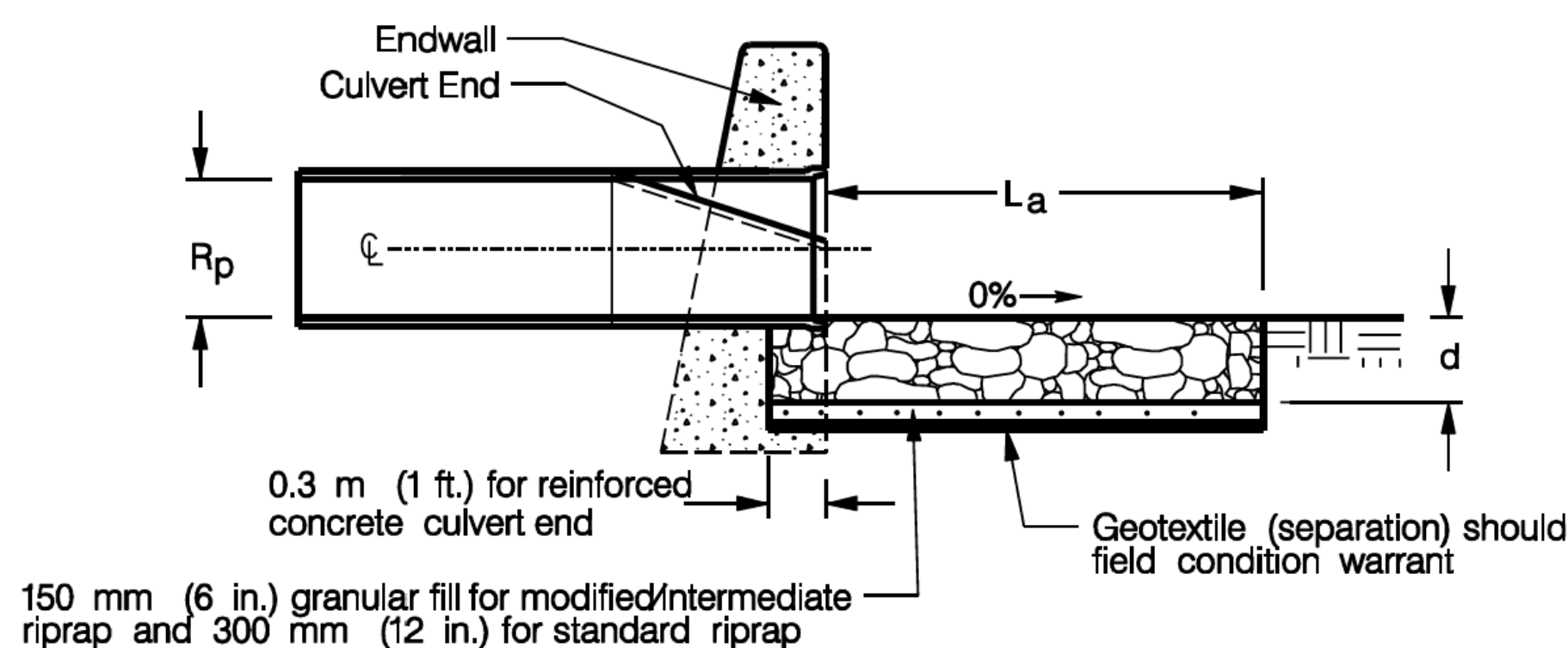
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PLOTTED DATE: 9/23/2025



CULVERT END PLAN VIEW



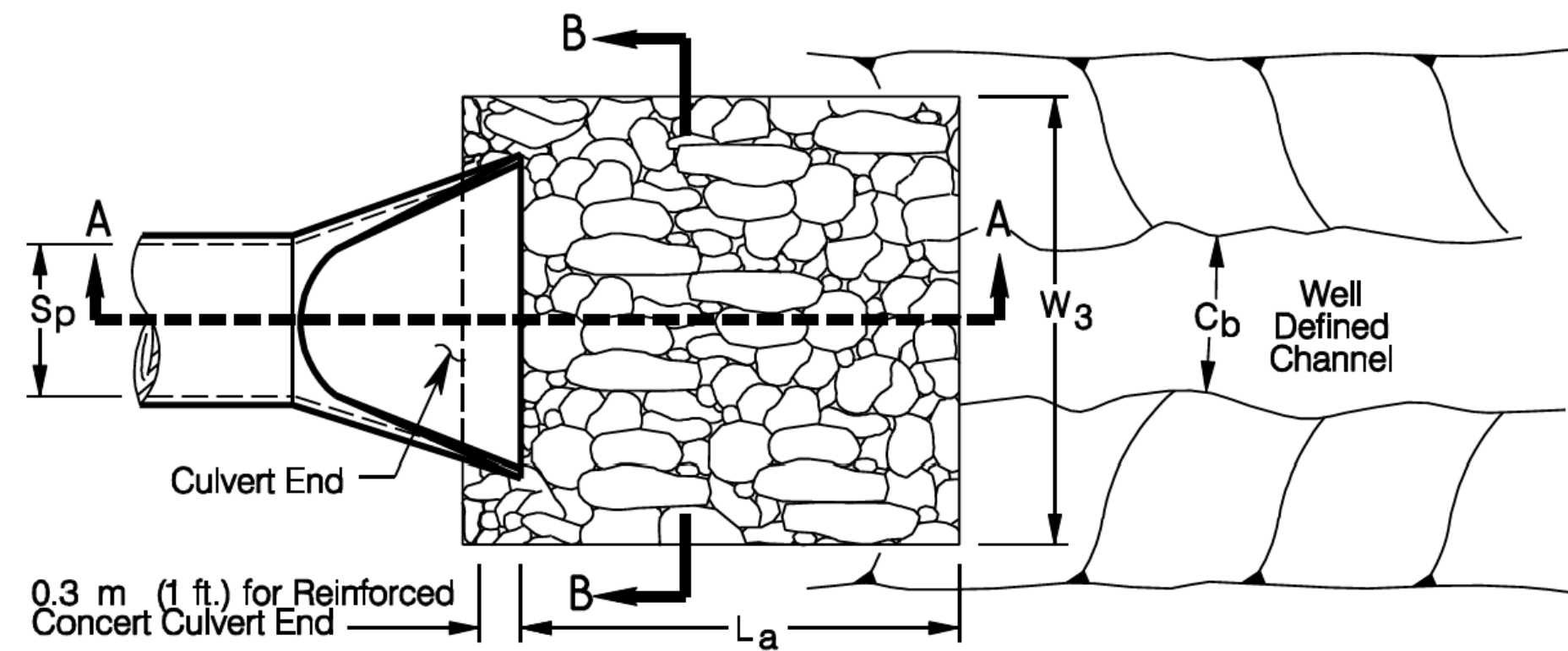
ENDWALL PLAN VIEW



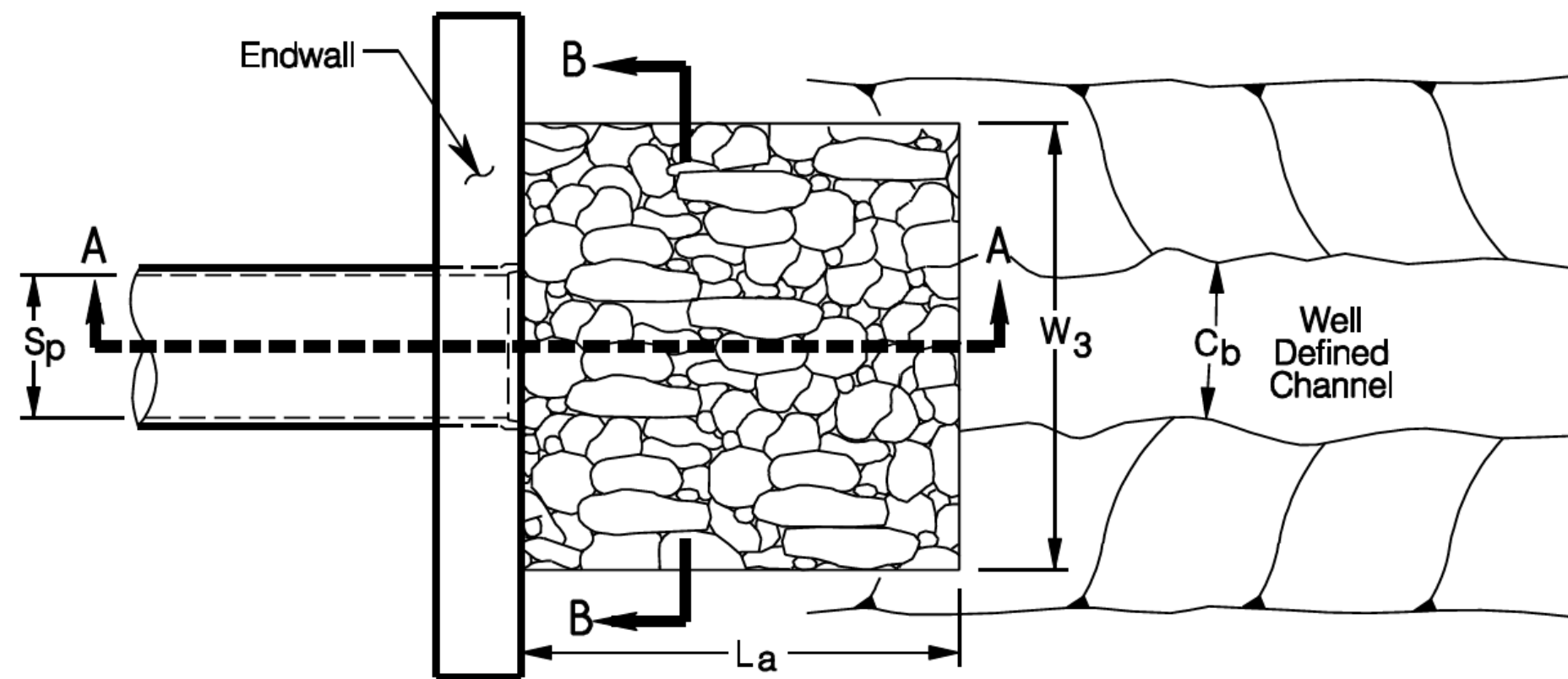
SECTION A-A
TYPE A & B RIPRAP APRON DETAIL

APRON DIMENSIONS

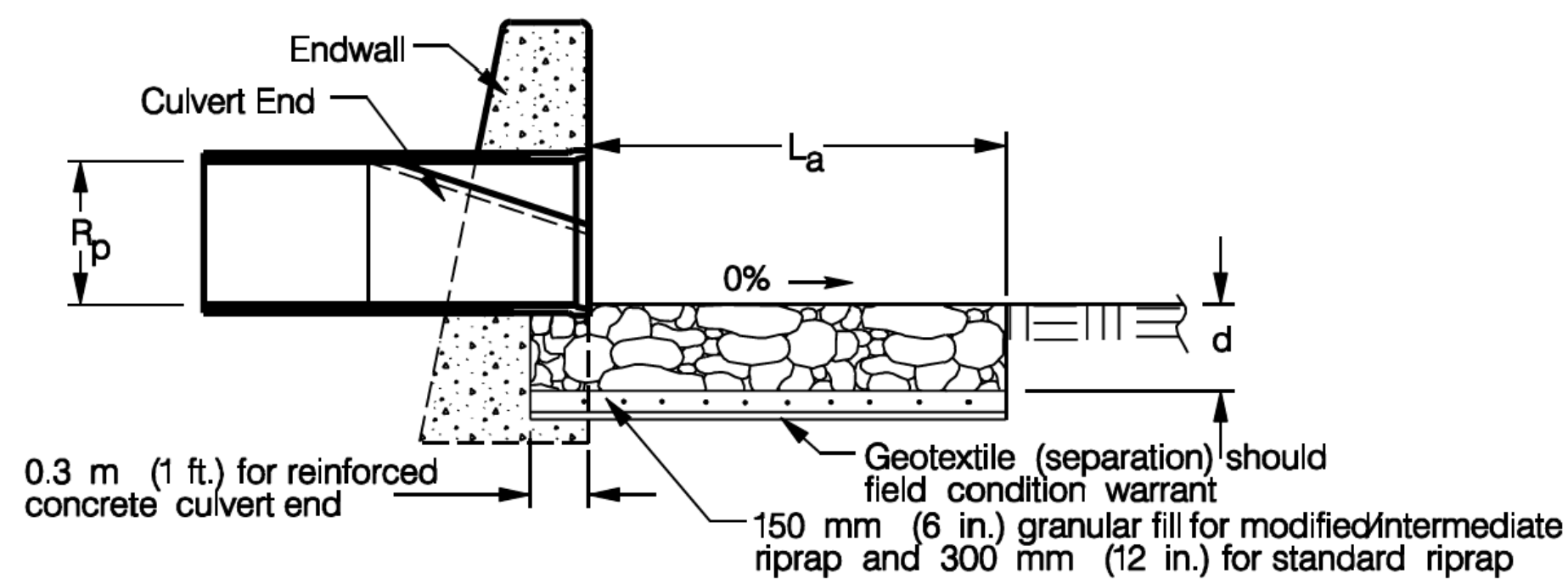
STATION	OFFSET	APRON TYPE	X	L, (FT)	W, (FT)	W, (FT)
4+20	RT	TYPE A	3	4.95	3.75	7.22
4+48	LT	TYPE B	5	11.09	3.75	8.19



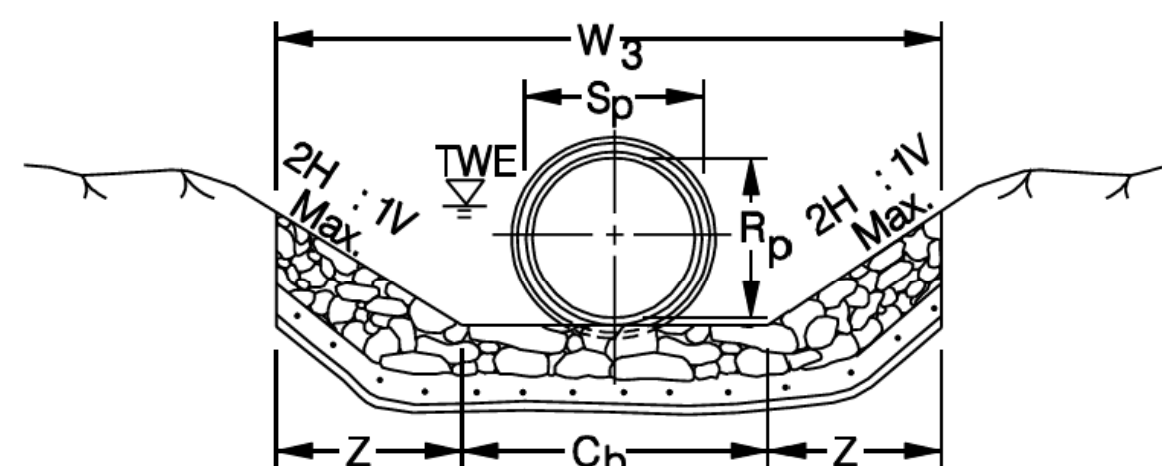
CULVERT END PLAN VIEW



ENDWALL PLAN VIEW



SECTION A-A
CULVERT END AND ENDWALL



SECTION B-B
CULVERT END AND ENDWALL

LEGEND

Z	Channel Side Slope
2	2H : 1V
3	3H : 1V
4	4H : 1V
5	5H : 1V
6	6H : 1V

- C_b = Channel Bottom
 TWE = Tailwater elevation
 S_p = { Max. Inside Pipe Span (Non-Circular Sections)
 Inside Pipe Diameter (Circular Sections)
 R_p = { Max. Inside Pipe Rise (Non-Circular Sections)
 Inside Pipe Diameter (Circular Sections)
 L_a = Length of riprap apron measured from the end of culvert end section or face of endwall
 d = { 300 mm (12 in.) Modified Riprap
 450 mm (18 in.) Intermediate Riprap
 900 mm (36 in.) Standard Riprap
 W_3 = Use Whichever { $\frac{2(Z)}{3S}$ (TWE + 0.3 m) + C_b
 is Greater: { $2(Z)$ (0.7 R_p) + C_b

TYPE C RIPRAP APRON DETAIL

APRON DIMENSIONS

STATION	OFFSET	L, (FT)	W, (FT)
6+80	LT	20.80	12.00

REVISION DESCRIPTION

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SCALE AS NOTED



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DEPARTMENT OF
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PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER

TOWN(S):

BERLIN

DRAWING TITLE:

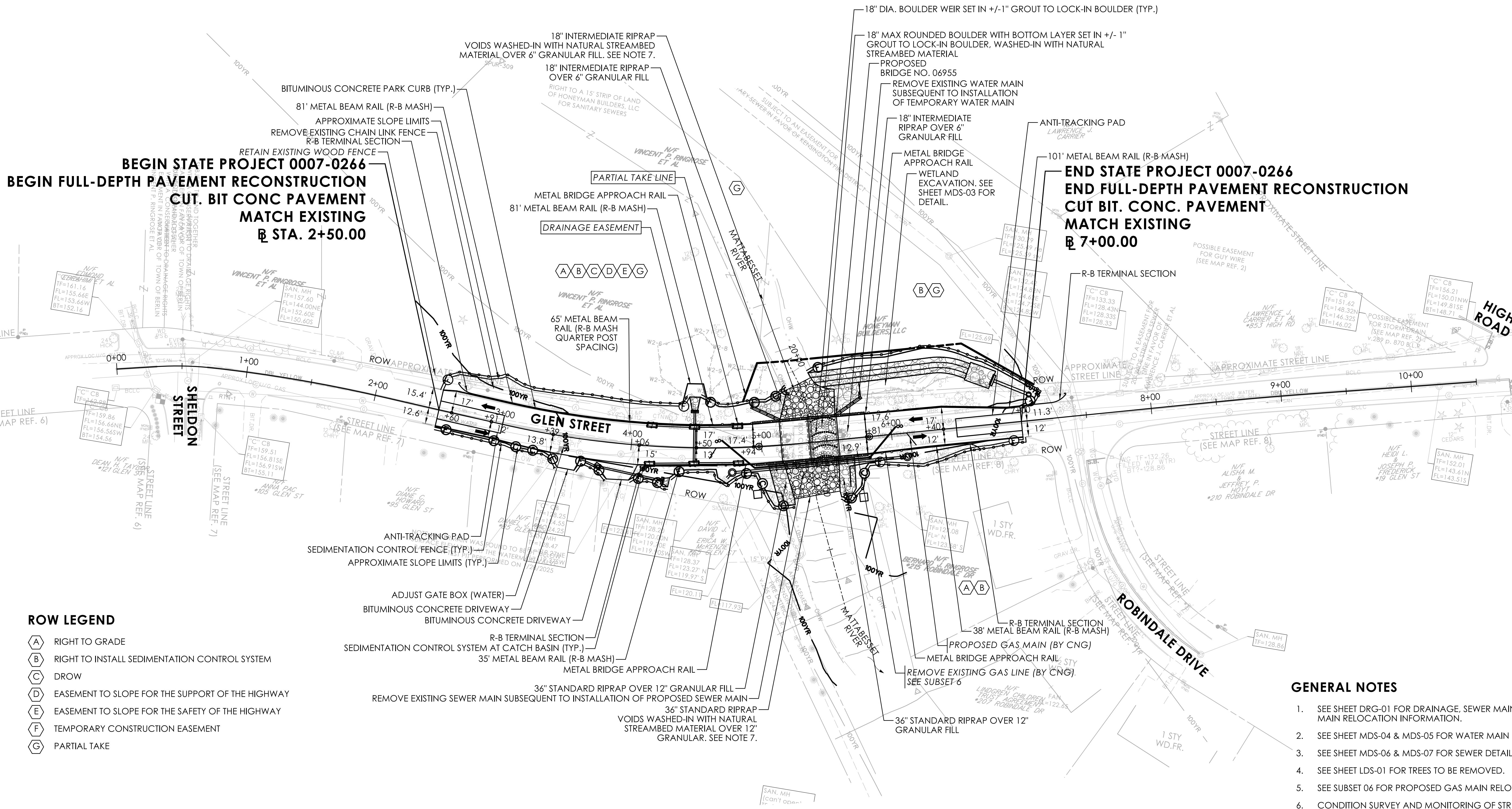
MISCELLANEOUS DETAIL
SHEETS

PROJECT NO.:

0007-0266

DRAWING NO.:

MDS-08
SHEET NO. 03.12



ROW LEGEND

- (A) RIGHT TO GRADE
- (B) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM
- (C) DROW
- (D) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY
- (E) EASEMENT TO SLOPE FOR THE SAFETY OF THE HIGHWAY
- (F) TEMPORARY CONSTRUCTION EASEMENT
- (G) PARTIAL TAKE

GENERAL NOTES

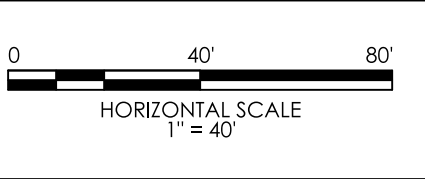
- SEE SHEET DRG-01 FOR DRAINAGE, SEWER MAIN, AND WATER MAIN RELOCATION INFORMATION.
- SEE SHEET MDS-04 & MDS-05 FOR WATER MAIN DETAILS.
- SEE SHEET MDS-06 & MDS-07 FOR SEWER DETAILS.
- SEE SHEET LDS-01 FOR TREES TO BE REMOVED.
- SEE SUBSET 06 FOR PROPOSED GAS MAIN RELOCATION.
- CONDITION SURVEY AND MONITORING OF STRUCTURE ON 215 ROBINDALE DRIVE AND 85 GLEN STREET IS REQUIRED IN ACCORDANCE WITH ITEM 0202911A, SEE SPECIAL PROVISIONS.
- WASH-IN NATURAL STREAMBED MATERIAL UP TO OHW (EL. 119.3 +/- UPSTREAM AND EL. 117.8 +/- DOWNSTREAM)

REV	DATE	REVISION DESCRIPTION

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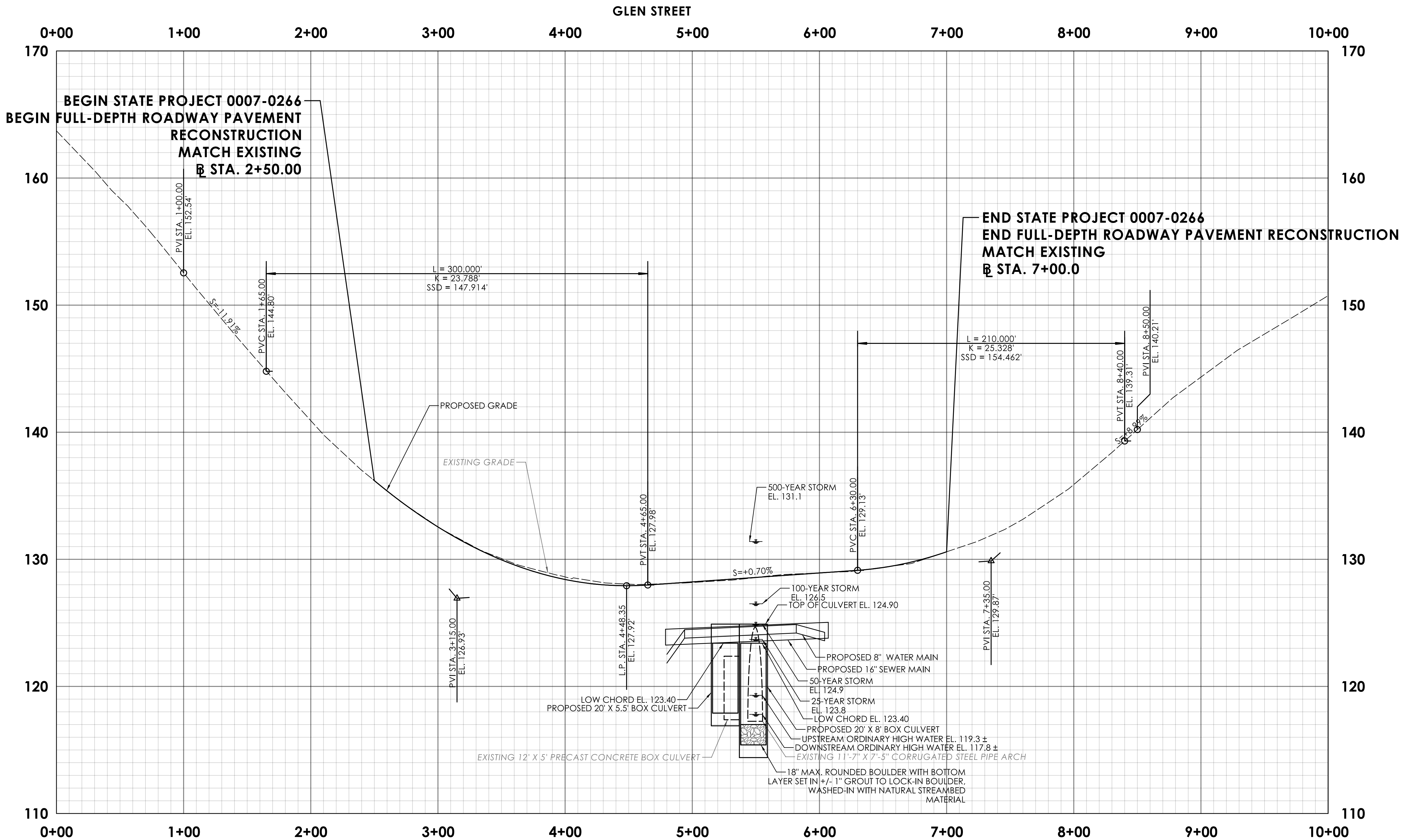
PROJECT TITLE:
REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER MATTABESSET RIVER

TOWN(S):
BERLIN

DRAWING TITLE:
ROADWAY PLAN

PROJECT NO.:
0007-0266

DRAWING NO.:
PLN-01
SHEET NO.:
03.13

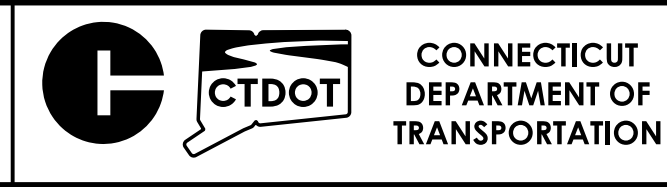
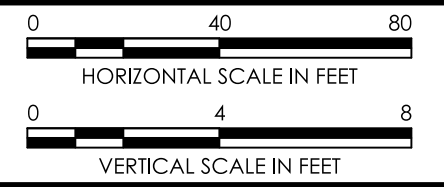


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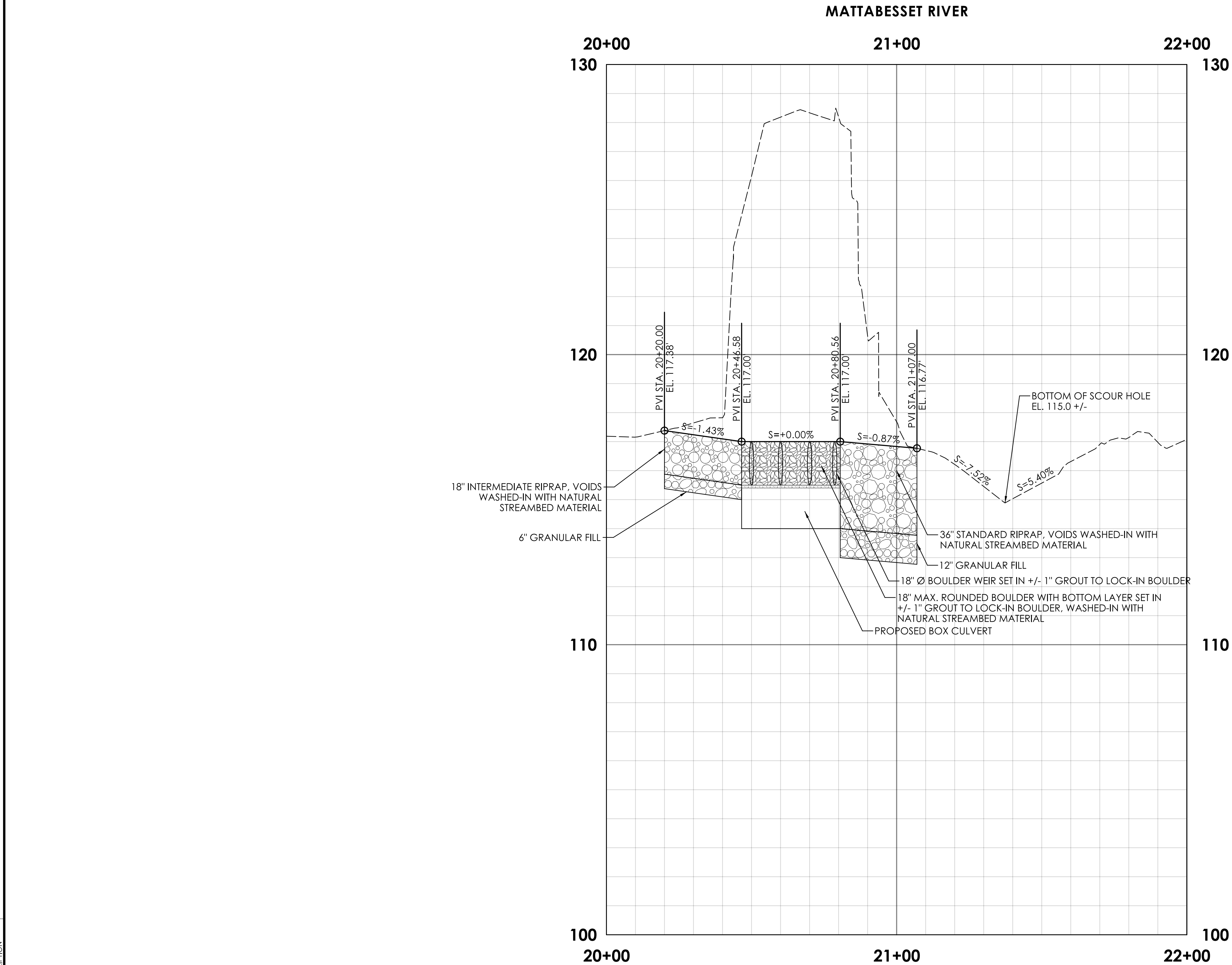
PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER**

TOWN(S):
BERLIN

DRAWING TITLE:
PROFILE PLAN

PROJECT NO.:	DRAWING NO.:
0007-0266	PRO-01
	SHEET NO. 03.14

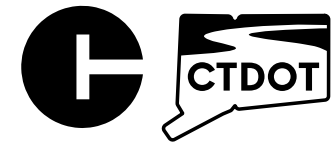
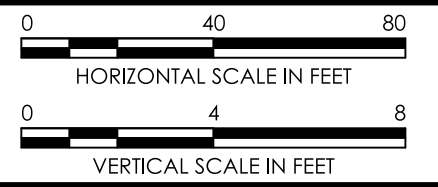
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BERLIN

DRAWING TITLE:

PROFILE PLAN

PROJECT NO.:

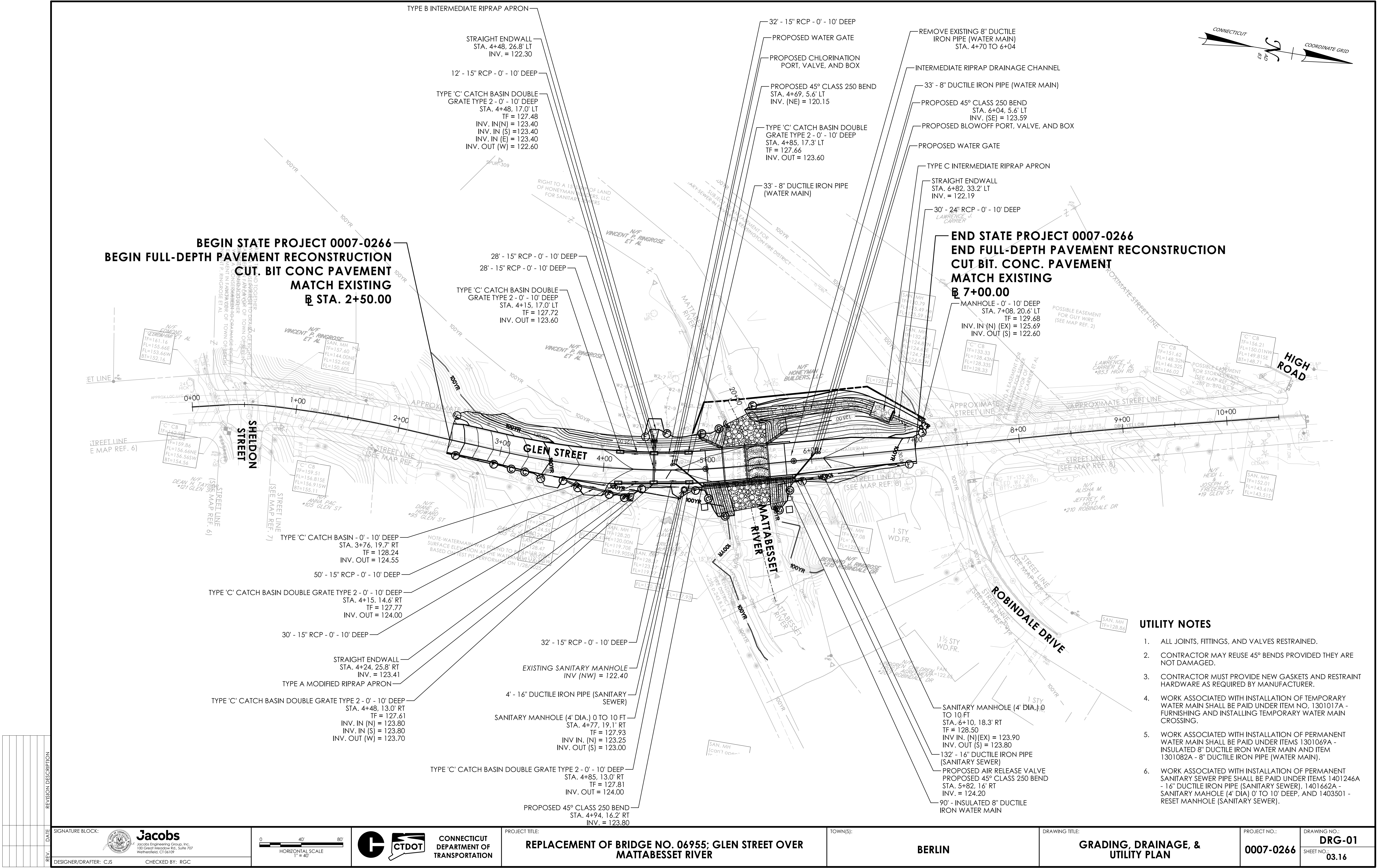
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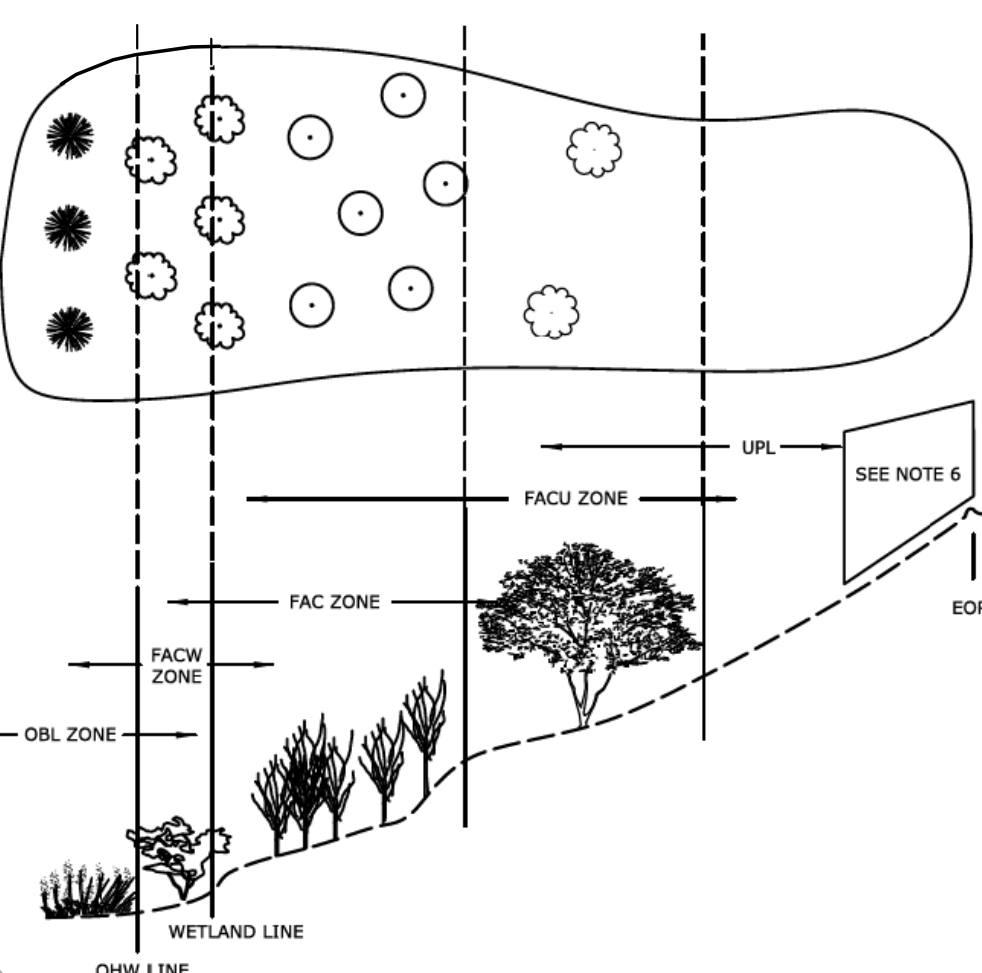
DRAWING NO.:

PRO-02

SHEET NO.:

03.15





PLANTING SCHEMATIC

HIGH ROAD

CONTROL AND REMOVAL OF INVASIVE VEGETATION (1550 SY) (SEE NOTE 7)

NOTES

1. PLANTINGS ON THIS SHEET ARE FOR ENVIRONMENTAL PERMITTING. ANY SUBSTITUTIONS TO THE PERMIT PLANTINGS SHALL BE COORDINATED WITH THE TOWN OF BERLIN.
2. PROPOSED PLANTINGS TO BE FIELD LOCATED BY TOWN OF BERLIN OR THEIR DESIGNATED REPRESENTATIVE.
3. WOOD CHIP MULCH SHALL NOT BE PLACED IN THE WETLAND AREA.
4. DISTURBED AREAS BELOW THE WETLAND LIMIT SHALL BE SEEDED WITH WETLAND GRASS ESTABLISHMENT. DISTURBED AREAS ABOVE THE WETLAND LIMIT SHALL BE SEEDED WITH CONSERVATION SEEDING FOR SLOPES, OR OTHER SEED MIX AS SPECIFIED. ALL AREAS SHALL BE RESTORED.
5. ALL PLANT MATERIAL SHALL BE NURSERY GRADE STRAIGHT SPECIES, CONFORMING TO SECTION 3 OF THE AMERICAN STANDARDS FOR NURSERY STOCK.
6. NO PLANTINGS SHALL BE PLACED IN MOW AREA.
7. AREA TO BE TREATED FOR INVASIVES INCLUDES ENTIRE PROJECT SITE EXCEPT FOR EXISTING ROADWAY. THIS AREA SHALL BE PROPERLY PREPARED FOR FINAL PLANTING, SEEDING, AND RESTORATION.
8. REMOVAL OF TREES TO BE PAID FOR UNDER ITEM NO. 0201001 - CLEARING AND GRUBBING.

PLANT LIST								
PLANT MIX	BOTANICAL NAME	COMMON NAME	SIZE	AREA	SPACING	TREE QTY.	WETLAND INDICATOR	NOTES
A - WEST	QUERCUS BICOLOR	SWAMP WHITE OAK	4-5' HT. B.B.		30' O.C.	15	FACW	FIELD LOCATED
	SALIX NIGRA	BLACK WILLOW	4-5' HT. B.B.		30' O.C.	15	OBL	FIELD LOCATED
	BETULA NIGRA	RIVER BIRCH	4-5' HT. B.B.		30' O.C.	15	FACW	FIELD LOCATED
	LINDERA BENZOIN	SPICEBUSH	2-3' HT. WHIPS, B.R.		10' O.C.	45	FACW	FIELD LOCATED
	CONSERVATION SEED MIX			7250 SF				
B - EAST	VIBURNUM PRUNIFOLIUM	SMOOTH BLACKHAW	2-3' HT. WHIPS, B.R.		20' O.C.	15	FACU	FIELD LOCATED
	ASCLEPIAS INCARNATA	SWAMP MILKWEED	1 GAL POT		20' O.C.	24	FACW	8 GROUPS OF 3 PLANTS EACH FIELD LOCATED
	SALIX DISCOLOR	PUSSYWILLOW	2-3' HT. WHIPS, B.R.		20' O.C.	15	FACW	FIELD LOCATED
	CONSERVATION SEED MIX			1500 SF			FACW	
C - FACW	CONSERVATION SEED MIX			450 SF			FACW	

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HORIZONTAL SCALE
1" = 40'

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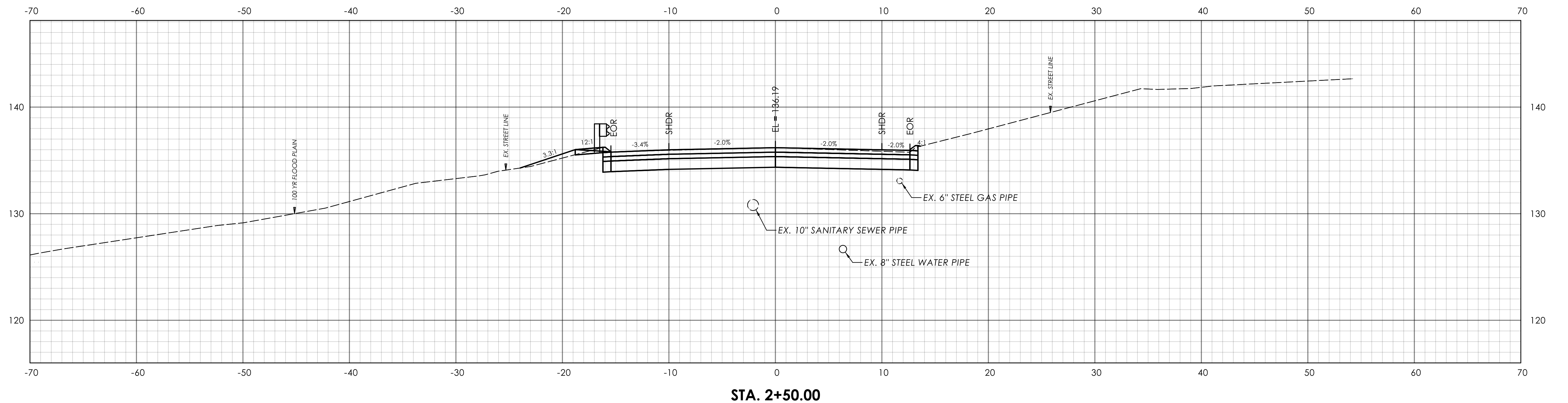
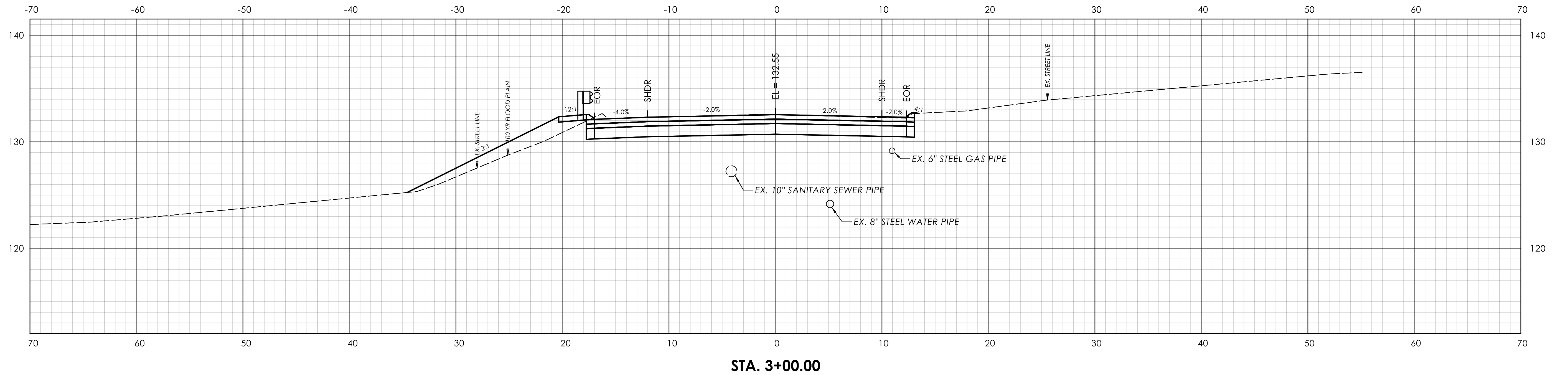
PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER**

TOWN(S):
BERLIN

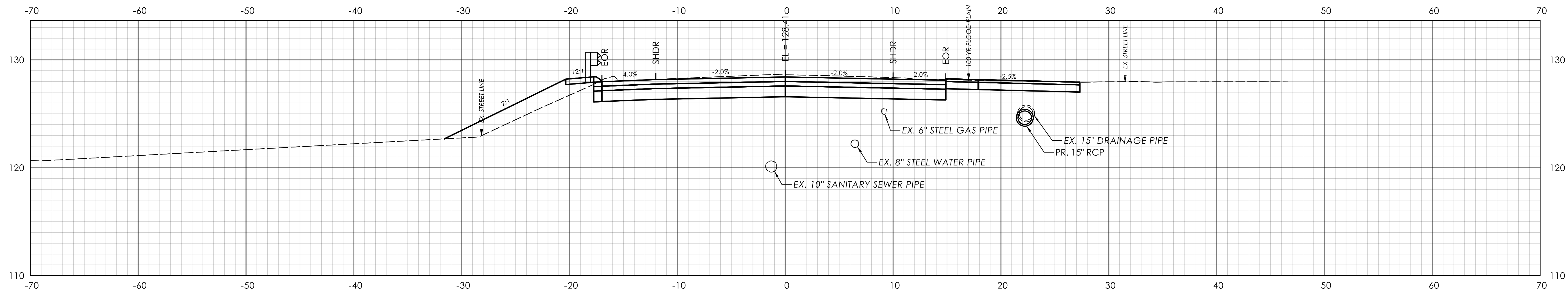
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LANDSCAPE PLAN

PROJECT NO.:
0007-0266

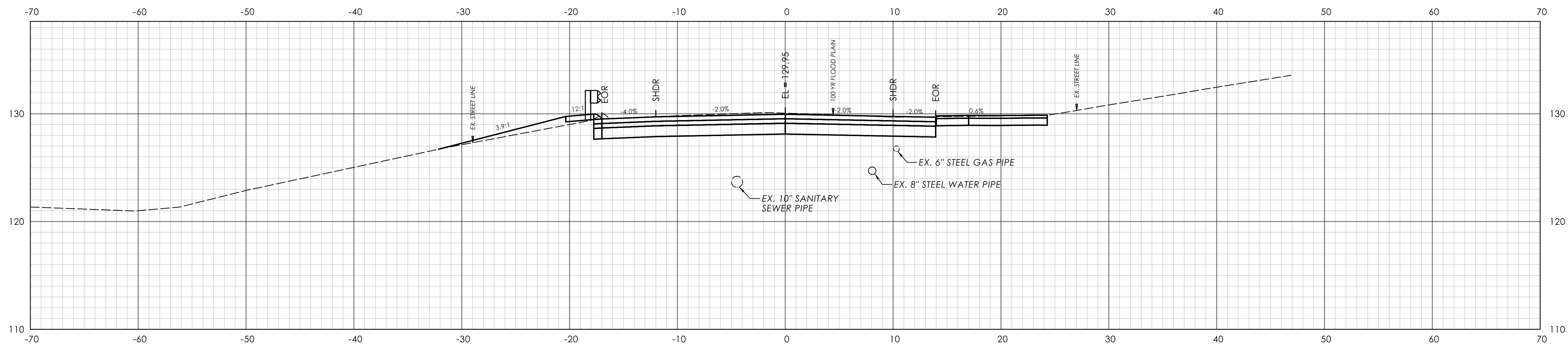
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LDS-01
SHEET NO.:
03.17



REV.	DATE	REVISION DESCRIPTION



STA. 4+00.00

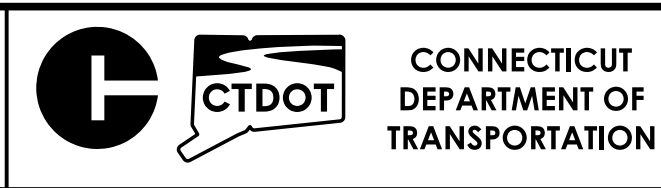
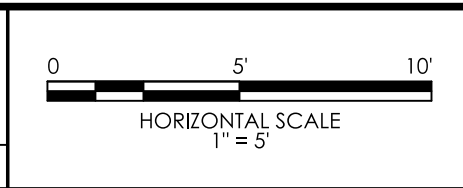


STA. 3+50.00

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PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER**

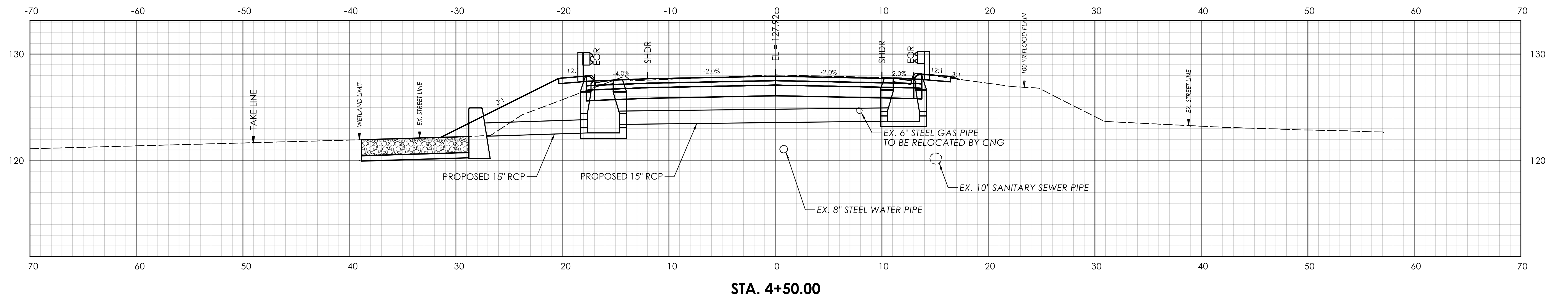
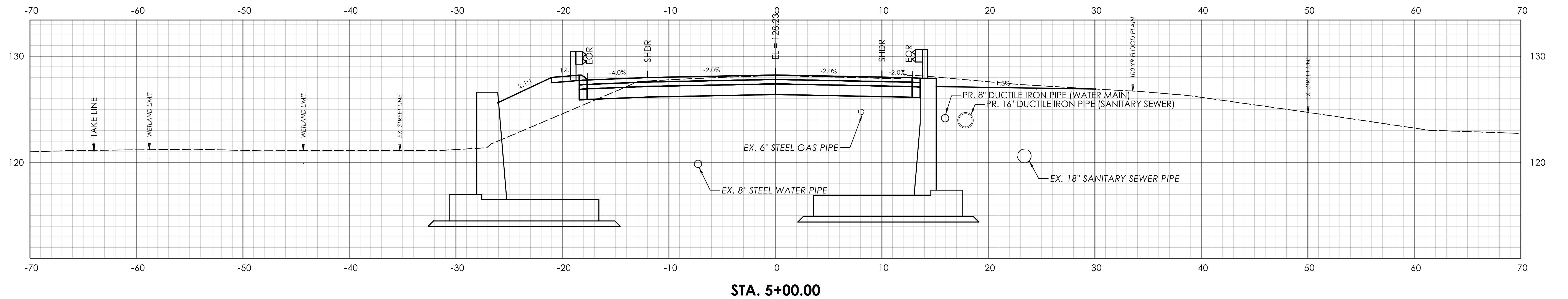
TOWN(S):
BERLIN

DRAWING TITLE:
CROSS SECTIONS - 02

PROJECT NO.:
0007-0266

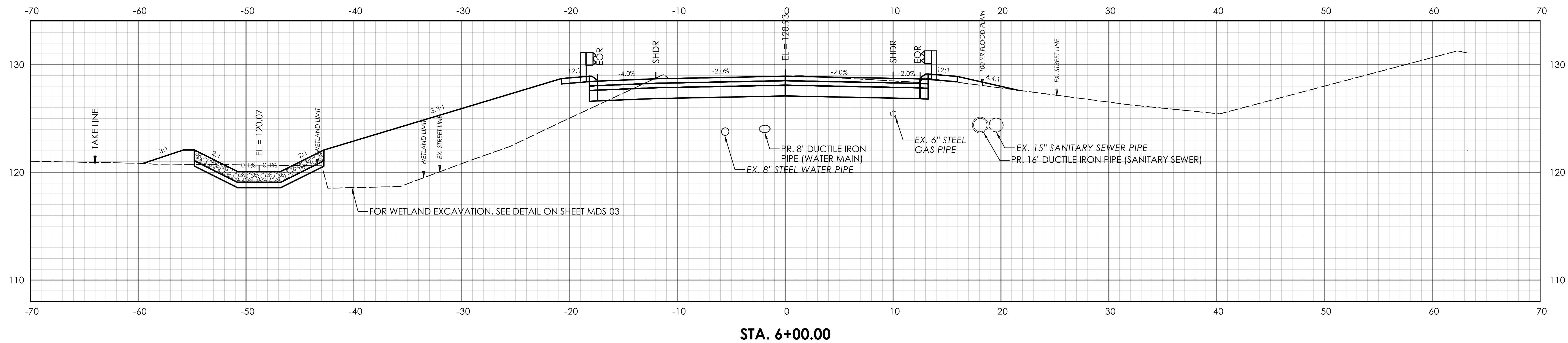
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XS-02

SHEET NO.:
03.19



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK: DESIGNER/DRAFTER: CJS CHECKED BY: RGC		 Jacobs Engineering Group, Inc. 100 Great Meadow Rd., Suite 107 Wethersfield, CT 06109	 HORIZONTAL SCALE 1" = 5'	 CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER MATTABESSET RIVER	TOWN(S): BERLIN	DRAWING TITLE: CROSS SECTIONS - 03	PROJECT NO.: 0007-0266	DRAWING NO.: XS-03 SHEET NO.: 03.20
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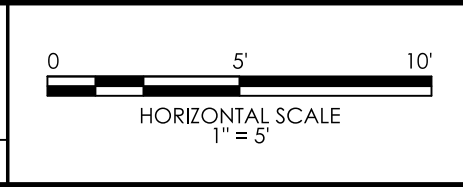
NOTES

1. SEE SUBSET 4 FOR BRIDGE TYPICAL SECTIONS AND CROSS SECTIONS.

REV.	DATE	REVISION DESCRIPTION

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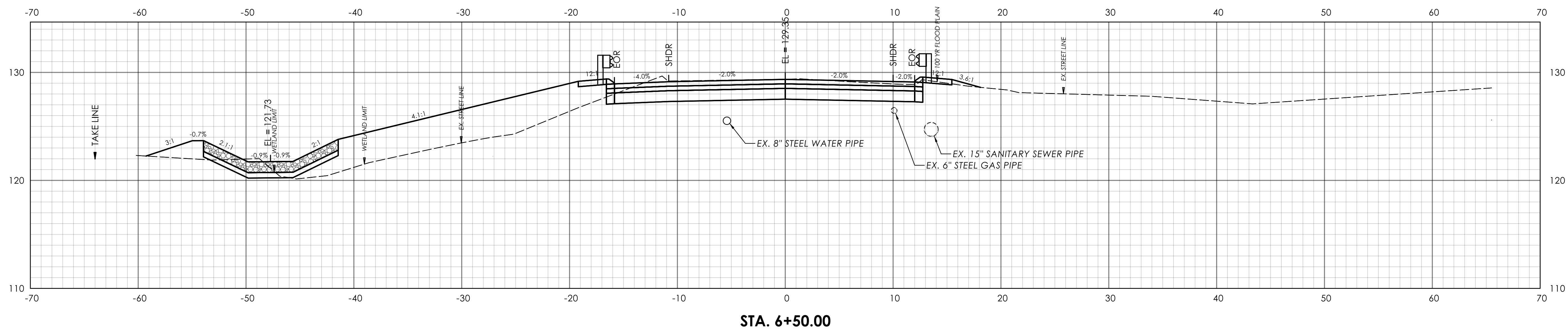
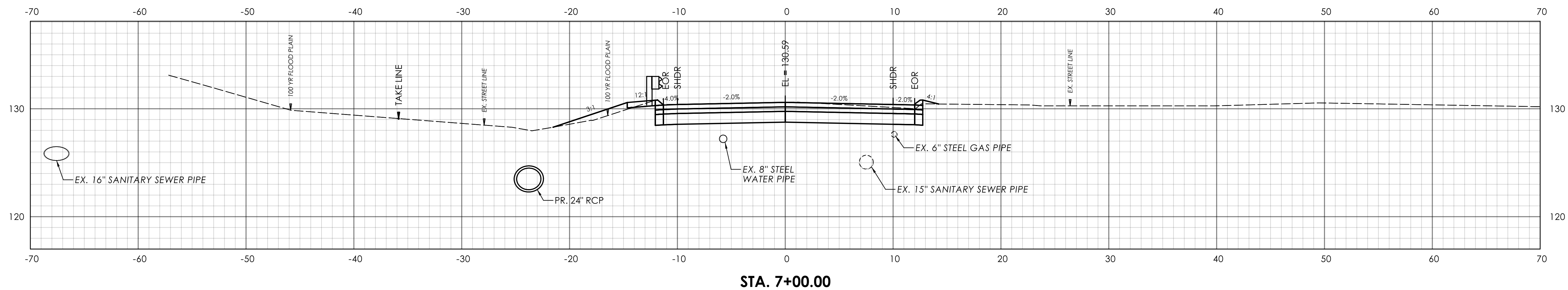
PROJECT TITLE:
REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER

TOWN(S):
BERLIN

DRAWING TITLE:
CROSS SECTIONS - 04

PROJECT NO.:
0007-0266

DRAWING NO.:
XS-04
SHEET NO.:
03.21



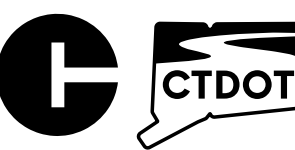
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0 5' 10'
HORIZONTAL SCALE
1" = 5'

 **CONNECTICUT
DEPARTMENT OF
TRANSPORTATION**

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 06955; GLEN STREET OVER
MATTABESSET RIVER**

TOWN(S):

BERLIN

DRAWING TITLE:

CROSS SECTIONS - 05

PROJECT NO.: **0007-0266**

DRAWING NO.: **XS-05**

SHEET NO.: **03.22**