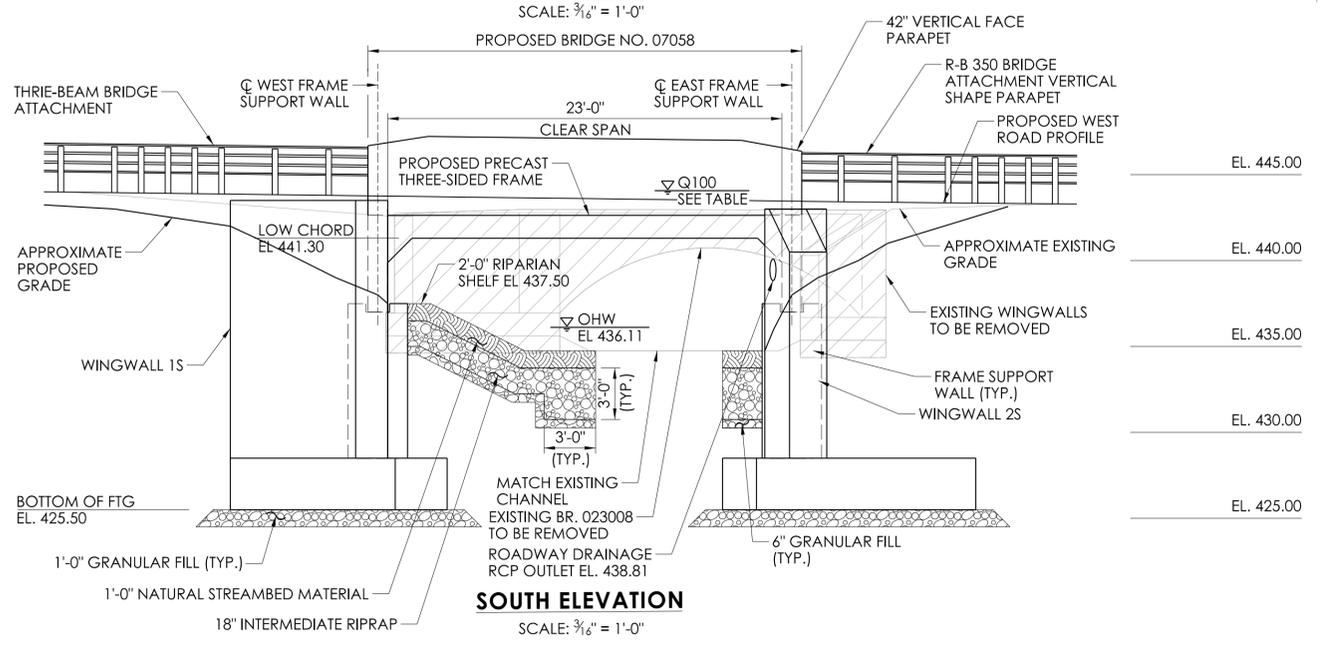


**GENERAL PLAN**  
SCALE: 3/8" = 1'-0"



**SOUTH ELEVATION**  
SCALE: 3/8" = 1'-0"

CURVE DATA	
CURVE #2	
R = 64.00'	
L = 73.11'	
T = 41.13'	
DELTA = 65°27'3.6"	
P.C.: STA. 4+26.94	N 878981.604 E 957532.477
P.T.: STA. 5+00.05	N 879030.797 E 957581.145
P.I.: STA. 4+68.07	N 878990.564 E 957572.617

HYDRAULIC DATA	
DRAINAGE AREA	8.11* SQ. MILE
DESIGN FREQUENCY	100 YR
DESIGN DISCHARGE	1,066* CFS
AVERAGE DAILY FLOW ELEVATION	436.11 FT
UPSTREAM DESIGN WATER SURFACE ELEVATION	444.09 FT
DOWNSTREAM DESIGN WATER SURFACE ELEVATION	439.94 FT
MAXIMUM SCOUR ELEVATION	428.50 FT
MAXIMUM SCOUR FREQUENCY	200 YR
MAXIMUM SCOUR DISCHARGE	1,165 CFS
WORST CASE SCOUR SUBSTRUCTURE UNIT	WEST ABUTMENT

\* DRAINAGE AREA AND DESIGN DISCHARGE CONTRIBUTES TO BOTH THE PROJECT BRIDGE (BRIDGE NO. 07058 (FORMERLY 023008)) AS WELL AS THE WESTERN BRIDGE (BRIDGE NO. 05823)

TRANSPORTATION DIMENSIONS AND WEIGHTS				
MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
END SEGMENT	28'-6"	5'-8"	6'-6"*	44,000 LB

NOTE: VALUES ASSUME 1'-4" TOP SLAB AND 12" SIDEWALLS.  
\* ESTIMATED MAXIMUM PRECAST CONCRETE RIGID FRAME SECTION WIDTH.

NOTICE TO BRIDGE INSPECTORS	
THE DEPARTMENT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING FOR COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE.) THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY THE MANAGER OF THE BRIDGE SAFETY AND EVALUATION.	
COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
-	-

**LEGEND**

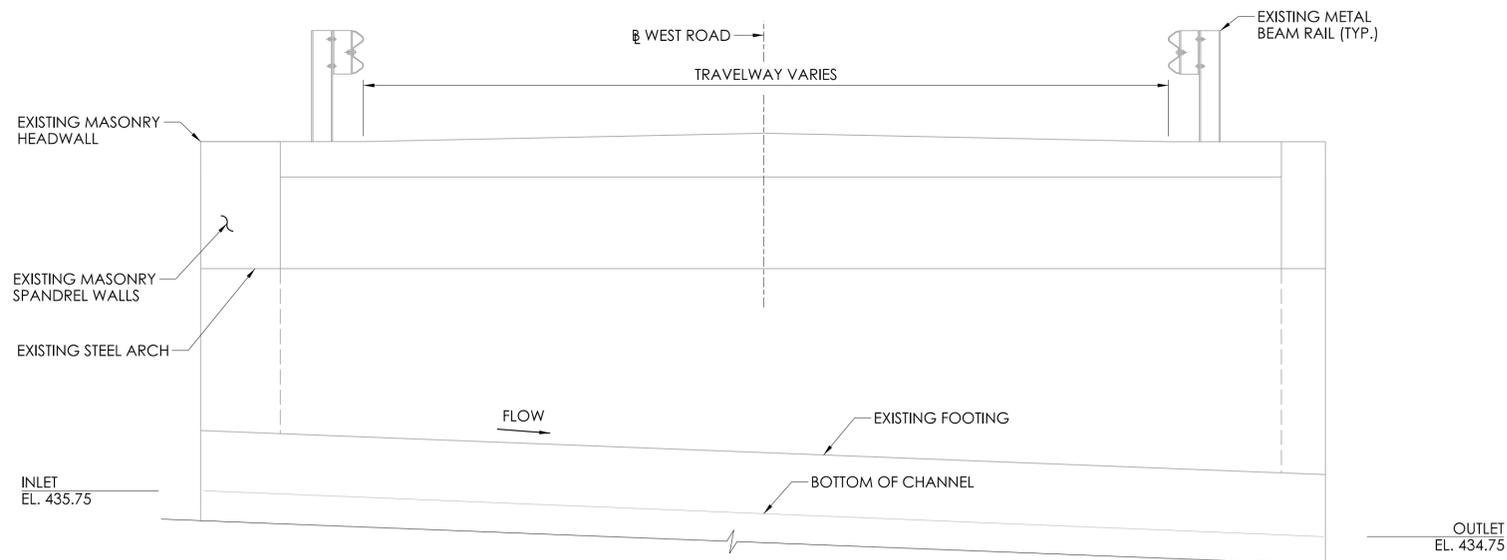
- BORING
- SEDIMENT SAMPLE
- RIPARIAN SHELF
- RIPRAP PROTECTION

**BANKFULL WIDTH (BFW)**

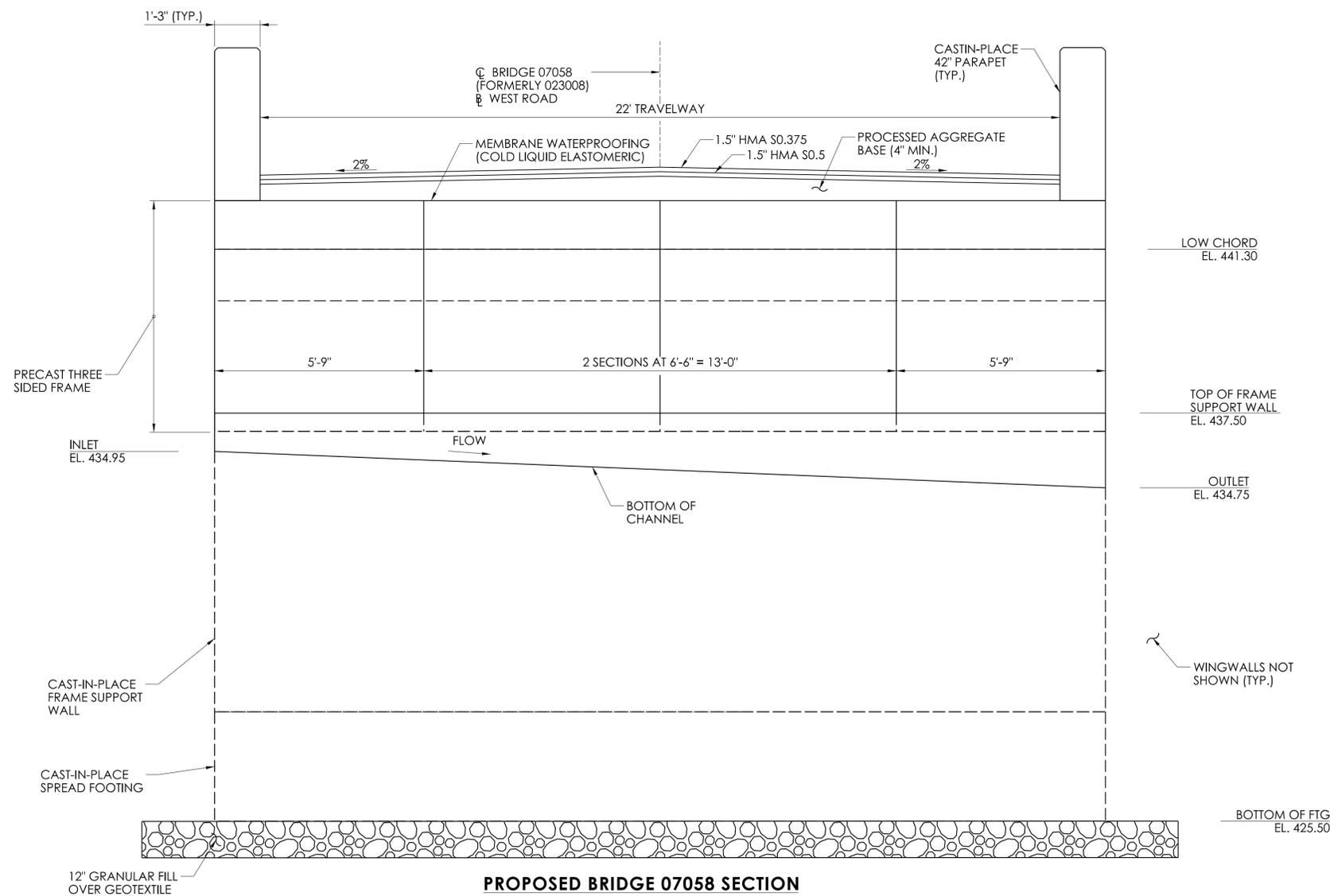
BFW = 16'-6" (MEASURED PERPENDICULAR TO FLOW)  
1.2 X BFW = 19.8 FT  
23 FT = PROPOSED CLEAR SPAN

CONCRETE DISTRIBUTION		
SUPERSTRUCTURE	C.Y.	51
SUBSTRUCTURE	C.Y.	280
FOOTINGS	C.Y.	140
TOTAL	C.Y.	331

REV.	DATE	REVISION DESCRIPTION



**EXISTING BRIDGE 023008 SECTION**



**PROPOSED BRIDGE 07058 SECTION**

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

**GENERAL NOTES:**

**SPECIFICATIONS:** CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020), SUPPLEMENTAL SPECIFICATION DATED JULY 2021 AND SPECIAL PROVISIONS

**DESIGN SPECIFICATIONS:** AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION - 2020, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003) WITH 12/19 REVISIONS.

**MATERIAL STRENGTHS:**

**CONCRETE:**  
 CLASS PCC 03340 ..... f<sub>c</sub> = 3,000 PSI  
 CLASS PCC 04462 ..... f<sub>c</sub> = 4,000 PSI  
 PRECAST FRAME ..... f<sub>c</sub> = 5,000 PSI

THE CONCRETE STRENGTH, f<sub>c</sub>, USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE.

**REINFORCEMENT:**  
 (ASTM A615 GRADE 60) ..... f<sub>y</sub> = 60,000 PSI

**LIVE LOAD:** HL-93, LEGAL AND PERMIT VEHICLES

**FUTURE PAVING ALLOWANCE:** NONE

**BITUMINOUS CONCRETE OVERLAY:** 1.5" HMA S0.375 (TOP COURSE), 1.5" HMA S0.5 (BOTTOM COURSE) OVER 4" MIN. PROCESSED AGGREGATE BASE.

**FOUNDATION PRESSURES:** THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

**DIMENSIONS:** WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

**EXISTING DIMENSIONS:** DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

**UTILITIES:** THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE PROJECT LIMITS AND SHALL BE PROTECTED DURING CONSTRUCTION: CABLE, COMMUNICATION AND ELECTRIC. THE CONTRACTOR SHALL COORDINATE ALL WORK RELATED TO UTILITY RELOCATION WITH THE RESPECTIVE UTILITY COMPANIES.

**MASH TEST LEVEL:** THE 42" PARAPET MEETS THE TL-3 CRITERIA FOR MASH 2016.

**REMAIN-IN-PLACE FORMS:** THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.

THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	FRAME FOOTINGS AND WINGWALL FOOTINGS	PCC03340
ABUTMENT AND WALL CONCRETE	WINGWALLS AND SUPPORT WALLS	PCC03340
PARAPET CONCRETE	BRIDGE PARAPET	PCC04462

**EXPOSED EDGES:** EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE, OR AS REQUIRED BY PRECAST MANUFACTURER STANDARDS.

**CONCRETE COVER:** ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

**REINFORCEMENT:** ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT, EXCEPT AS REQUIRED IN THREE-SIDED RIGID FRAME, SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS - GALVANIZED."

**PREFORMED EXPANSION JOINT FILLER:** THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES".

**CONSTRUCTION JOINTS:** CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

**BRIDGE IDENTIFICATION:** FOR THIS CONTRACT, THE NEW BRIDGE SHALL BE IDENTIFIED AS FOLLOWS:  
 BRIDGE 07058

**BRIDGE IDENTIFICATION PLACARDS:** THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT THE LEADING END OF EACH BRIDGE PARAPET ON THE TRAFFIC SIDE. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGN SHALL BE 4'X12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN REFLECTIVE SHEETING. EACH SIGN SHALL READ "07058". ALL COST ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER THE ITEM "SIGN FACE SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING)". THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

**EXISTING PLANS:** NO PLANS FOR THE EXISTING BRIDGE ARE AVAILABLE

**BY OTHERS:** WHEN "BY OTHERS" IS NOTED, IT IS TO SIGNIFY THAT THE WORK CALLED OUT IS TO BE PERFORMED BY THE ASSOCIATED UTILITY COMPANY, AND NOT THE CONTRACTOR.

**TRAFFIC:** ALL WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 1.08 PROSECUTION AND PROGRESS, SPECIAL PROVISION "MAINTENANCE AND PROTECTION OF TRAFFIC", AND THE CONSTRUCTION STAGES SHOWN ON THE PLANS.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

SCALE AS NOTED

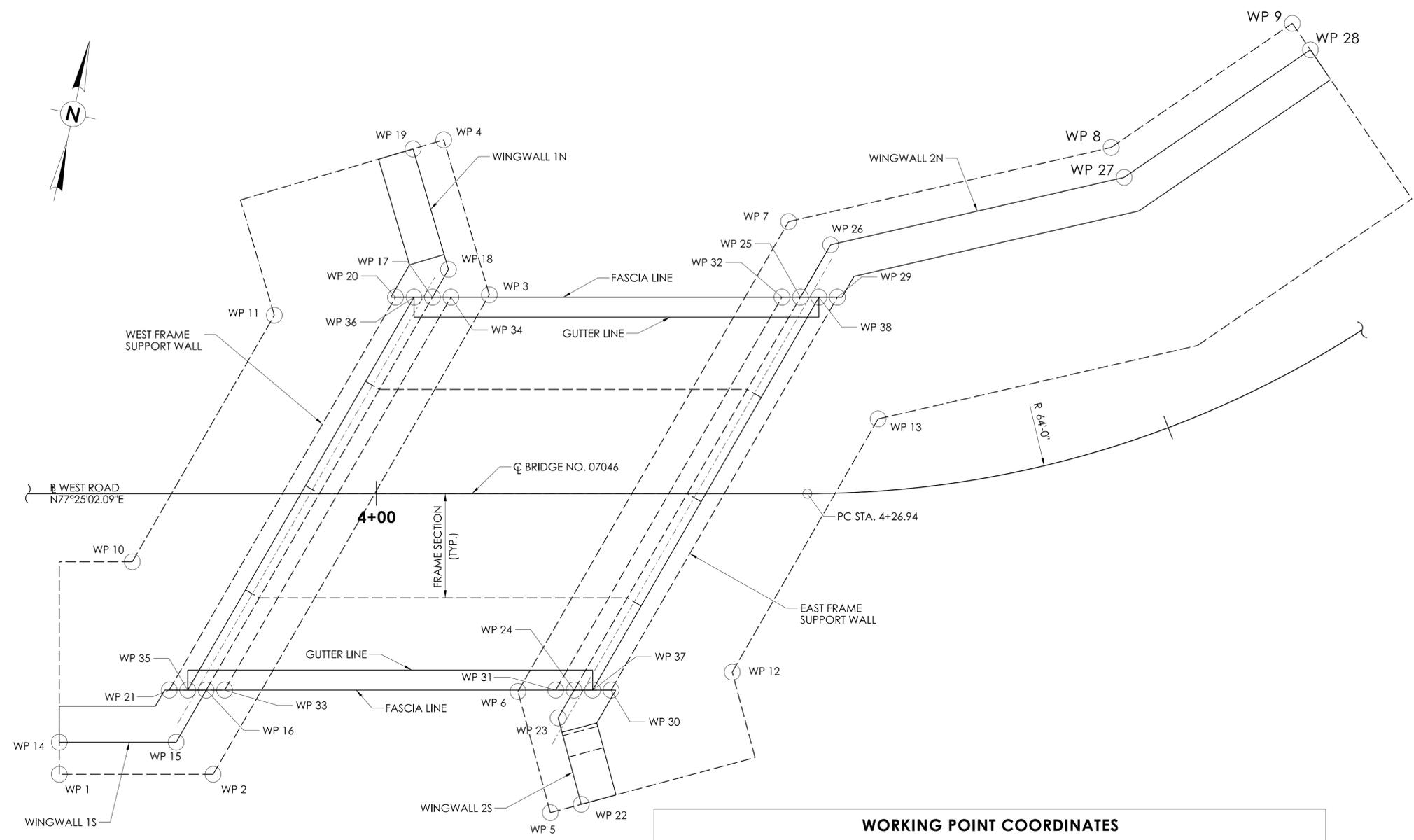
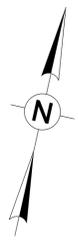
SIGNATURE/BLOCK: \_\_\_\_\_



TOWN OF CANTON CONNECTICUT

PROJECT NUMBER: BR023008-2020  
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 023008  
 TOWN(S): CANTON  
 DRAWING TITLE: BRIDGE SECTION AND GENERAL NOTES

DRAWING NO. S-02  
 SHEET NO. 04.03



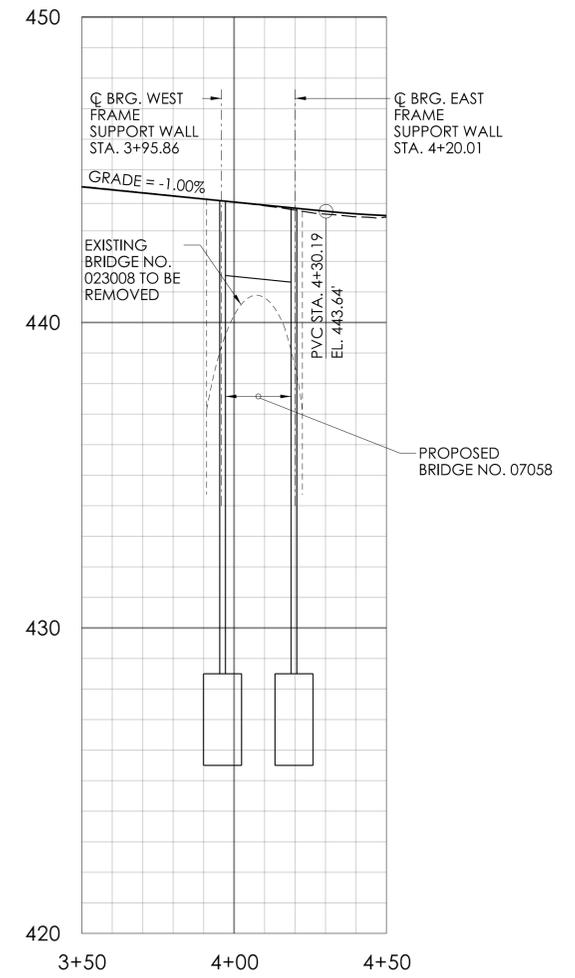
**LAYOUT PLAN**  
SCALE: 1/4" = 1'-0"

**WORKING POINT COORDINATES**

WORKING POINT	NORTHING	EASTING	LOCATION
WP 1	878954.337	957490.650	WINGWALL 1S FOOTING SOUTH WEST TOE
WP 2	878956.433	957500.037	WINGWALL 1S FOOTING SOUTH EAST TOE
WP 3	878989.375	957510.371	WINGWALL 1N FOOTING EAST TOE
WP 4	878998.189	957505.487	WINGWALL 1N FOOTING NORTH TOE
WP 5	878958.695	957521.129	WINGWALL 2S FOOTING SOUTH WEST TOE
WP 6	878965.626	957517.508	WINGWALL 2S FOOTING NORTH WEST TOE
WP 7	878997.913	957527.637	WINGWALL 2N FOOTING NORTH WEST TOE
WP 8	879006.814	957546.305	WINGWALL 2N FOOTING NORTH CENTRAL TOE
WP 9	879016.833	957555.678	WINGWALL 2N FOOTING NORTH EAST TOE
WP 10	878968.264	957492.220	WINGWALL 1S FOOTING NORTH HEEL
WP 11	878954.337	957490.650	WINGWALL 1N FOOTING SOUTH HEEL
WP 12	878969.717	957530.320	WINGWALL 2S FOOTING NORTH HEEL
WP 13	878987.116	957535.779	WINGWALL 2N FOOTING SOUTH HEEL
WP 14	878956.289	957490.214	WINGWALL 1S SOUTH WEST CORNER
WP 15	878957.882	957497.347	WINGWALL 1S SOUTH EAST CORNER
WP 16	878961.462	957498.470	WINGWALL 1S FRONT FACE

**WORKING POINT COORDINATES**

WORKING POINT	NORTHING	EASTING	LOCATION
WP 17	878988.455	957506.939	WINGWALL 1N FRONT FACE
WP 18	878990.364	957507.537	WINGWALL 1N EAST CORNER
WP 19	878997.219	957503.738	WINGWALL 1N NORTH EAST CORNER
WP 20	878987.952	957504.685	WEST SUPPORT WALL NORTH WEST CORNER
WP 21	878960.959	957496.217	WEST SUPPORT WALL SOUTH WEST CORNER
WP 22	878959.621	957522.902	WINGWALL 2S SOUTH WEST CORNER
WP 23	878964.564	957520.319	WINGWALL 2S NORTH WEST CORNER
WP 24	878966.473	957520.918	WINGWALL 2S FRONT FACE
WP 25	878993.466	957529.386	WINGWALL 2N FRONT FACE
WP 26	878997.070	957530.517	WINGWALL 2N SOUTH WEST CORNER
WP 27	879005.171	957547.507	WINGWALL 2N CENTRAL CORNER
WP 28	879015.467	957557.139	WINGWALL 2N NORTH EAST CORNER
WP 29	878993.969	957531.640	EAST SUPPORT WALL NORTH EAST CORNER
WP 30	878966.976	957523.172	EAST SUPPORT WALL SOUTH EAST CORNER
WP 31	878966.221	957519.791	EAST SUPPORT WALL SOUTH WEST CORNER
WP 32	878993.214	957528.259	EAST SUPPORT WALL NORTH WEST CORNER
WP 33	878961.714	957499.597	WEST SUPPORT WALL SOUTH EAST CORNER
WP 34	878988.707	957508.066	WEST SUPPORT WALL NORTH EAST CORNER
WP 35	878961.211	957497.344	SW 1S FASCIA
WP 36	878988.204	957505.812	NW 1N FASCIA
WP 37	878966.724	957522.045	SE 2S FASCIA
WP 38	878993.717	957530.513	NE 2N FASCIA



**PROFILE**  
VERTICAL SCALE: 5/16" = 1'-0"  
HORIZONTAL SCALE: 1/32" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

Driller: R. Posa	<b>Connecticut DOT Boring Report Format</b>		Hole No.: S-1
Inspector: G. Jacobson	Town: Canton	Stat./Offset: 4+40.0/-2.6 (L)	
Engineer: Nathan Whetten	Project No.: 2020-0401	Northing:	
Start Date: 12-7-20	Route No.: West Rd	Easting:	
Finish Date: 12-7-20	Bridge No.: 023008	Surface Elevation: 444	

Project Description: Replacement of Bridge 023008 over Cherry Brook		
Casing Size/Type: 4" HW	Sampler Type/Size: SS 1-3/8	Core Barrel Type: NX
Hammer Wt.: 300lb Fall: 24in.	Hammer Wt.: 140lb Fall: 30in.	

Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %			
0						Pavement Structure Fill	Pavement Structure - Asphalt Pavement	
	S-1	18 18 17 19	24	14		Sand	Brown c-f SAND, some c-f GRAVEL, little silt	440
	S-2	9 8 50/3"	15	10			Brown c-f SAND, some c-f GRAVEL, little silt	
5	S-3	30 50/1"	7	3			Gray-brown c-f SAND, little c-f gravel, little silt	
10	S-4	14 11 10 19	24	8			Gray-brown c-f SAND and c-f GRAVEL, little silt	435
15	S-5	60 50/4"	10	8		Decomposed Sandstone	Gray-brown c-f SAND, little c-f gravel, little silt; red sandstone chips in tip of split-spoon	430
20	S-6	50/3"	3	3			Red f SAND and SILT (Decomposed Sandstone)	425
25								420

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test		NOTES: Augers to 10 ft; drove 4" casing to 15 ft; roller bit open hole to 30 ft. Roller bitted moderately hard from 15.5 to 30 ft. Core barrel repeatedly blocked by soft soil-like layers from 38 to 40 ft.	Sheet 1 of 2
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%			
Total Penetration in Earth: 30ft	Rock: 10ft		
No. of Soil Samples: 7	No. of Core Runs: 3		SM-001-M REV. 1/02

Driller: R. Posa	<b>Connecticut DOT Boring Report Format</b>		Hole No.: S-1
Inspector: G. Jacobson	Town: Canton	Stat./Offset: 4+40.0/-2.6 (L)	
Engineer: Nathan Whetten	Project No.: 2020-0401	Northing:	
Start Date: 12-7-20	Route No.: West Rd	Easting:	
Finish Date: 12-7-20	Bridge No.: 023008	Surface Elevation: 444	

Project Description: Replacement of Bridge 023008 over Cherry Brook		
Casing Size/Type: 4" HW	Sampler Type/Size: SS 1-3/8	Core Barrel Type: NX
Hammer Wt.: 300lb Fall: 24in.	Hammer Wt.: 140lb Fall: 30in.	

Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %			
25	S-7	100/5"	5	5		Decomposed Sandstone (cont)	Red f SAND and SILT (Decomposed Sandstone)	415
30	C-1		60	48	28	Sandstone	Mod strong, mod weath, aphanitic, red, SANDSTONE. Granite seam at 32 ft, bedding indistinct, primary joints 1-20 in spaced, shallow dip, open, weathered. Secondary cracks and joints vertical, tight, mod. weathered. Core Rate (min/ft): 2,2,2,3,3	410
35	C-2		36	28	31		Mod. strong, mod. weathered, aphanitic, red, SANDSTONE; med grained at 38 ft. Bedding indistinct, primary joints 2-8 in spaced, shallow dipping, open, weath. Secondary cracks and joints vertical, tight, mod. weath. CoreRate(min/ft): 3,3,3	405
40	C-3		24	11	0		Soft weathered aphanitic red SANDSTONE. Primary joints are 1 to 2 in. spaced, with probably soil layers (not recovered). Core Rate (min/ft): 3,3	400
45							END OF BORING 40ft	400
50								395

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test		NOTES: Augers to 10 ft; drove 4" casing to 15 ft; roller bit open hole to 30 ft. Roller bitted moderately hard from 15.5 to 30 ft. Core barrel repeatedly blocked by soft soil-like layers from 38 to 40 ft.	Sheet 2 of 2
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%			
Total Penetration in Earth: 30ft	Rock: 10ft		
No. of Soil Samples: 7	No. of Core Runs: 3		SM-001-M REV. 1/02

REV.	DATE	REVISION DESCRIPTION

Driller: A. McKernon	<b>Connecticut DOT Boring Report Format</b>	Hole No.: S-2A
Inspector: G. Jacobson	Town: Canton	Stat./Offset: 3+92.7/-1.5 (L)
Engineer: Nathan Whetten	Project No.: 2020-0401	Northing:
Start Date: 12-7-20	Route No.: West Rd	Easting:
Finish Date: 12-7-20	Bridge No.: 023008	Surface Elevation: 444

Project Description: Replacement of Bridge 023008 over Cherry Brook		
Casing Size/Type: 4" HW	Sampler Type/Size: SS 1-3/8	Core Barrel Type: NX
Hammer Wt.: 300lb Fall: 24in.	Hammer Wt.: 140lb Fall: 30in.	

Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches						
0						Pavement Structure	Pavement Structure - Asphalt Pavement	
	S-1	16	18	20	14	24	14	
	S-2	20	28	24	16	24	3	440
5	S-3	4	7	21	36	24	8	
						Sand	Brown to dark brown fine SAND and SILT, trace roots	435
10	S-4	18	12	12	16	24	14	430
							10 - 11 ft: Brown c-f SAND, some c-f gravel, little silt; 11 - 12 ft: Red brown SILT and fine SAND.	
15	S-5	46	30	47	47	24	12	425
						Decomposed Sandstone	Red brown fine SAND and SILT	
20	S-6	30/0"				0	0	
						Sandstone	Mod strong, mod weath, fine grained, red brown, SANDSTONE. Bedding indistinct, primary joints 3-16 in spaced, shallow dip, open, weathered. Secondary joints vertical, tight, slightly weathered. Core Rate (min/ft): 1, 1, 1, 1, 1.25	420
25	C-1	100/5"				60	54	70

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test		
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%		
Total Penetration in Earth: 20ft	Rock: 10ft	NOTES: Moved over from S-2 (abandoned); started sampling at 10 ft; drove 4" casing to 15 ft; roller bit open hole to 30 ft. Roller bitted easily from 10 to 15 ft; roller bitted moderately hard 15 to 20 ft.
No. of Soil Samples: 2	No. of Core Runs: 2	Sheet 1 of 2
		SM-001-M REV. 1/02

Driller: A. McKernon	<b>Connecticut DOT Boring Report Format</b>	Hole No.: S-2A
Inspector: G. Jacobson	Town: Canton	Stat./Offset: 3+92.7/-1.5 (L)
Engineer: Nathan Whetten	Project No.: 2020-0401	Northing:
Start Date: 12-7-20	Route No.: West Rd	Easting:
Finish Date: 12-7-20	Bridge No.: 023008	Surface Elevation: 444

Project Description: Replacement of Bridge 023008 over Cherry Brook		
Casing Size/Type: 4" HW	Sampler Type/Size: SS 1-3/8	Core Barrel Type: NX
Hammer Wt.: 300lb Fall: 24in.	Hammer Wt.: 140lb Fall: 30in.	

Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches						
25								
	C-2					54	54	50
						Sandstone (cont)	Mod strong, mod weath, aphanitic, red, SANDSTONE soft below 28 ft, bedding indistinct, primary joints 1-3 in spaced, shallow dip, open, weathered. Core Rate (min/ft): 1.25, 1.25, 1.25, 1.25, 1.25	415
30							END OF BORING 29.5ft	410
35								405
40								400
45								395
50								

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test		
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%		
Total Penetration in Earth: 20ft	Rock: 10ft	NOTES: Moved over from S-2 (abandoned); started sampling at 10 ft; drove 4" casing to 15 ft; roller bit open hole to 30 ft. Roller bitted easily from 10 to 15 ft; roller bitted moderately hard 15 to 20 ft.
No. of Soil Samples: 2	No. of Core Runs: 2	Sheet 2 of 2
		SM-001-M REV. 1/02

REV.	DATE	REVISION DESCRIPTION

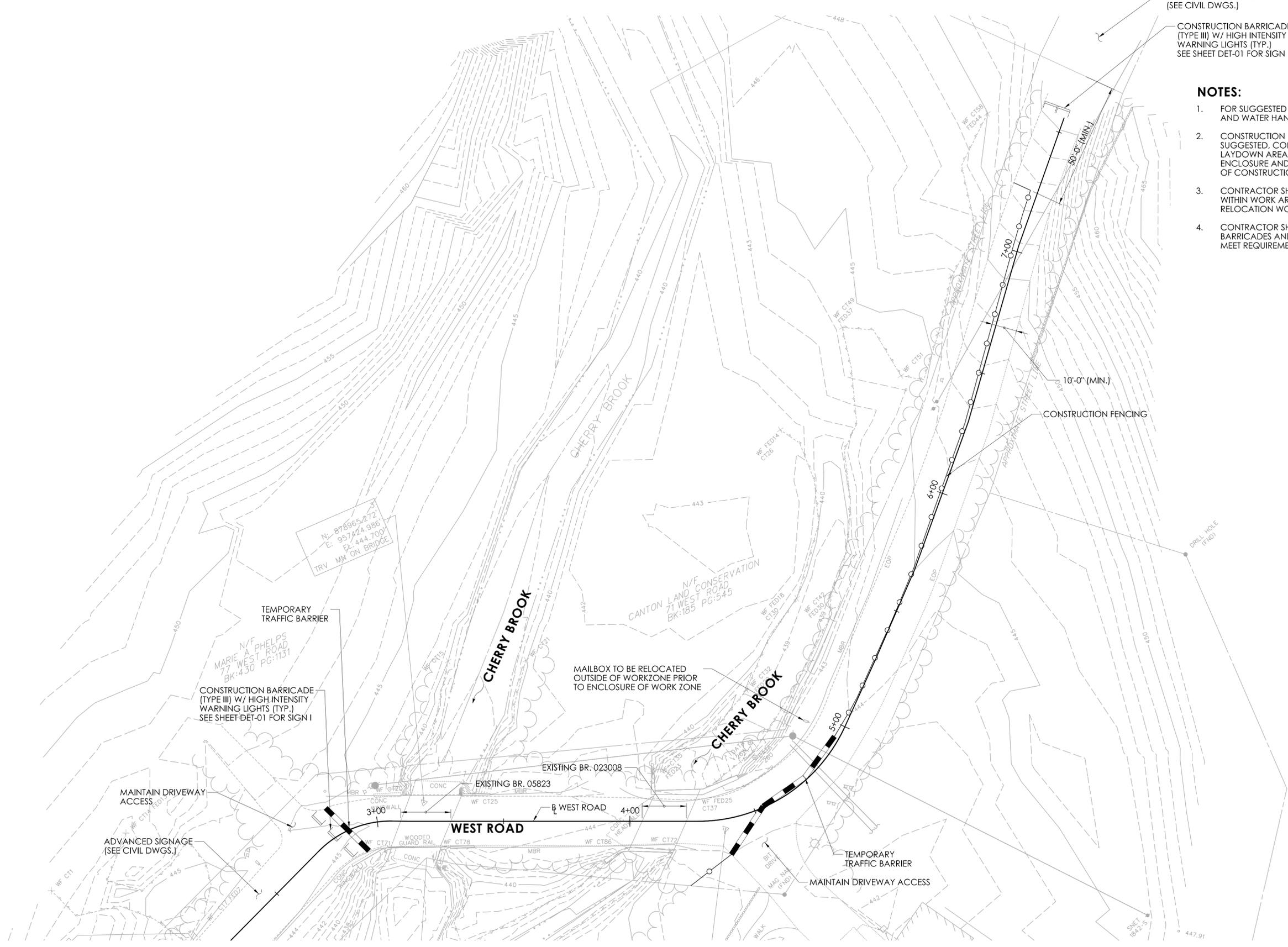


ADVANCED SIGNAGE  
(SEE CIVIL DWGS.)

CONSTRUCTION BARRICADE  
(TYPE III) W/ HIGH INTENSITY  
WARNING LIGHTS (TYP.)  
SEE SHEET DET-01 FOR SIGN I

**NOTES:**

1. FOR SUGGESTED CONSTRUCTION SEQUENCE, SEE STAGING AND WATER HANDLING PLANS.
2. CONSTRUCTION FENCING AND BARRIER LAYOUT SHOWN IS SUGGESTED, CONTRACTOR SHALL SUBMIT CONSTRUCTION LAYDOWN AREA LAYOUT WITH PROPOSED WORKZONE ENCLOSURE AND BARRIERS FOR REVIEW PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR SHALL ALLOW ACCESS BY UTILITY COMPANIES WITHIN WORK AREA FOR POLE NO. 1482 AND UTILITY RELOCATION WORK.
4. CONTRACTOR SHALL ADJUST PLACEMENT OF CONSTRUCTION BARRICADES AND BARRIERS AS SHOWN ON THIS PLAN TO MEET REQUIREMENTS SET FORTH BY CIVIL DWG. NO. DET-01.



**ROADWAY CLOSURE PLAN**  
SCALE: 1" = 20'-0"

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: BRM  
CHECKED BY: GTG

SCALE AS NOTED

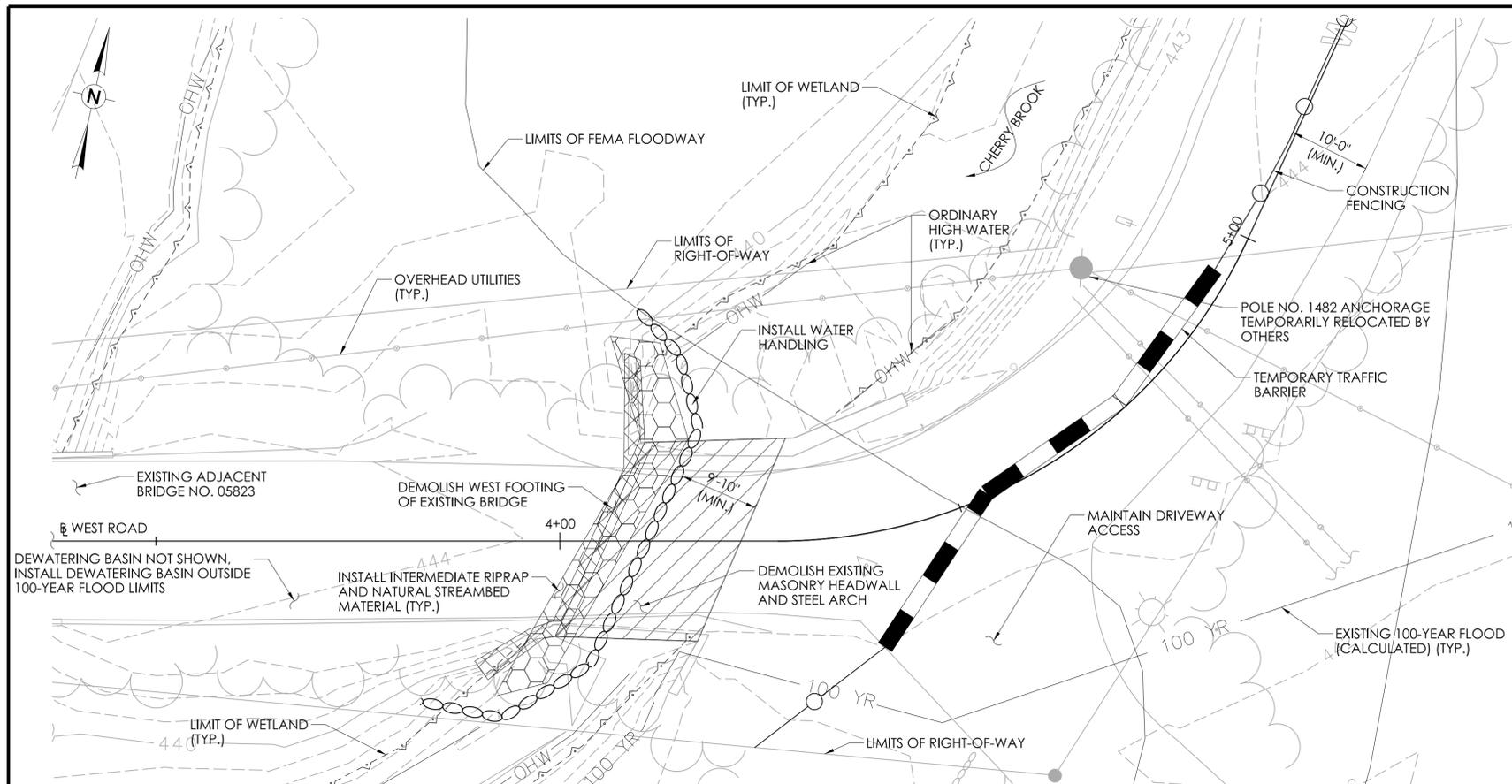
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 500 WINDING BROOK DR.  
 GLASTONBURY, CT 06033



  
**TOWN OF CANTON  
CONNECTICUT**

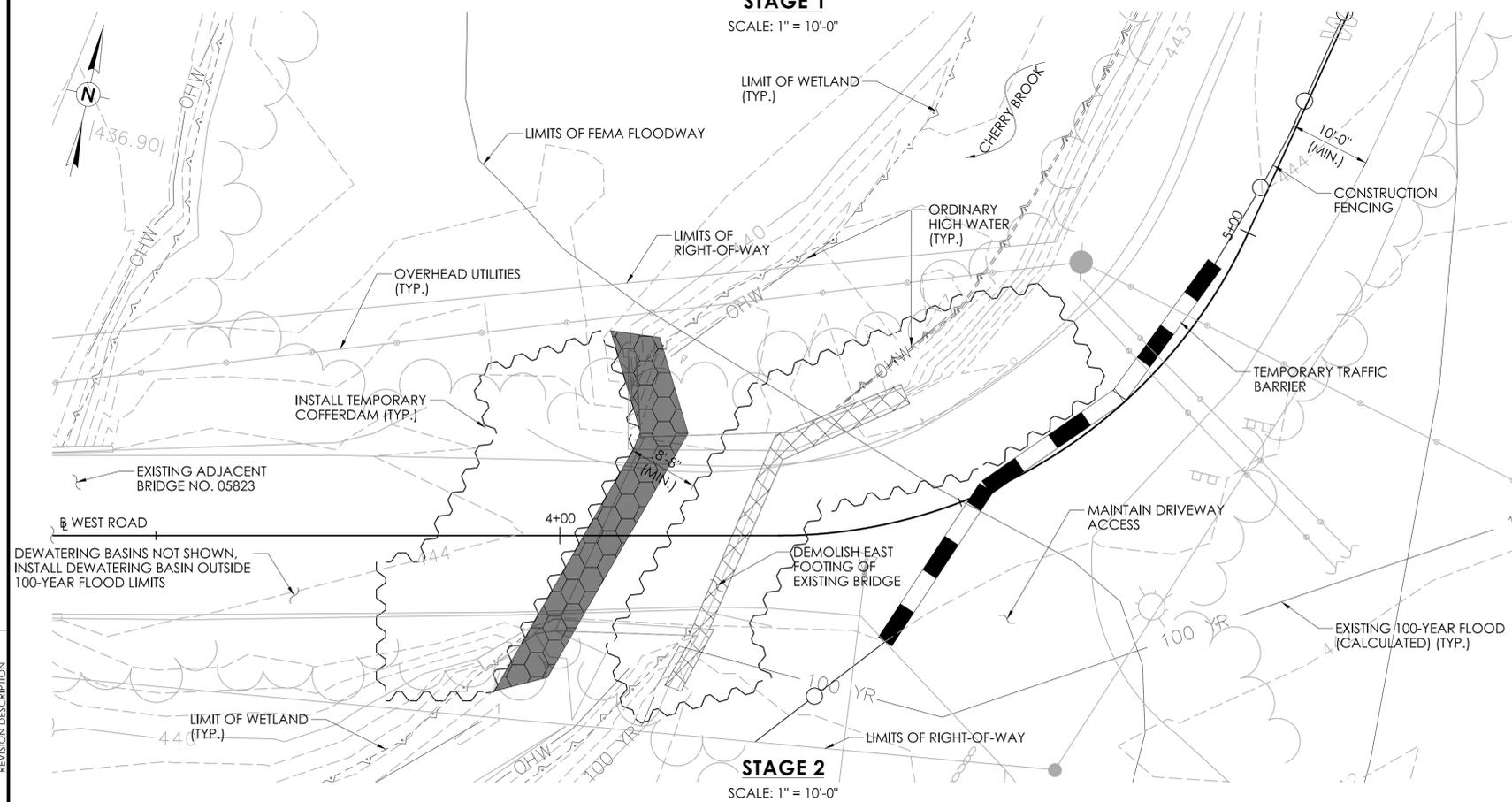
PROJECT NUMBER: BR023008-2020  
 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 023008  
 TOWN(S): CANTON  
 DRAWING TITLE: ROADWAY CLOSURE PLAN

DRAWING NO.  
S-06  
SHEET NO.  
**04.07**



**STAGE 1**

SCALE: 1" = 10'-0"



**STAGE 2**

SCALE: 1" = 10'-0"

**NATURAL STREAMBED MATERIAL NOTES:**

1. NATIVE STREAMBED MATERIAL EXCAVATED DURING EXISTING STRUCTURE REMOVAL AND NEW STRUCTURE INSTALLATION SHALL BE STOCKPILED AND THEN REPLACED TO THE DEPTH SHOWN ON THE PLANS, AS DIRECTED BY THE ENGINEER, AND IN ACCORDANCE WITH SPECIAL PROVISION "EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL".
2. ADDITIONAL STREAMBED MATERIAL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISION "SUPPLEMENTAL CHANNEL MATERIAL".
3. THE STOCKPILE SHALL BE LOCATED OUTSIDE THE WETLAND LIMITS AND PROTECTED WITH SEDIMENTATION CONTROL SYSTEM.

**WORK RESTRICTIONS:**

1. UNCONFINED INSTREAM WORK IS RESTRICTED TO THE PERIOD OF JUNE 1 THROUGH SEPTEMBER 30, INCLUSIVE.

**SUGGESTED CONSTRUCTION SEQUENCE**

**STAGE 1:**

1. CONTRACTOR MOBILIZATION. REMOVE MUNICIPAL BARRIERS AND CLOSURE SIGNAGE. INSTALL CONSTRUCTION SIGNAGE, BARRICADES, FENCING, AND TEMPORARY TRAFFIC BARRIER.
2. INSTALL WATER HANDLING ALONG WEST SIDE OF EXISTING CHANNEL.
3. INSTALL DEWATERING BASIN OUTSIDE 100-YEAR FLOOD LIMITS.
4. INSTALL DEBRIS SHIELD NETTING, REMOVE EXISTING ROADWAY APPURTENANCES, EXCAVATE AND REMOVE EXISTING MASONRY HEADWALLS AND EXISTING STEEL ARCH.
5. REMOVE DEBRIS SHIELD NETTING, REMOVE EXISTING WEST ARCH FOOTING, WINGWALLS AND WINGWALL FOOTINGS.
6. INSTALL RIPRAP AND NATURAL STREAMBED MATERIAL BETWEEN STAGE 1 WATER HANDLING AND FUTURE LOCATION OF STAGE 2 COFFERDAM FOR WEST FOOTING.

**STAGE 2:**

1. REMOVE STAGE 1 WATER HANDLING.
2. INSTALL EAST AND WEST TEMPORARY COFFERDAMS.
3. REMOVE EXISTING EAST ARCH FOOTING, WINGWALLS AND WINGWALL FOOTINGS.

**TEMPORARY HYDRAULIC DATA**

AVERAGE DAILY FLOW	15 CFS
AVERAGE SPRING FLOW	29 CFS
<b>STAGE 1 - 1 YEAR STORM</b>	
1-YEAR FREQUENCY DISCHARGE	67 CFS
1-YEAR WATER SURFACE ELEVATION UPSTREAM	436.96 FT
1-YEAR WATER SURFACE ELEVATION DOWNSTREAM	436.65 FT
<b>STAGE 2 - 2 YEAR STORM</b>	
2-YEAR FREQUENCY DISCHARGE	415 CFS
2-YEAR WATER SURFACE ELEVATION UPSTREAM	438.68 FT
2-YEAR WATER SURFACE ELEVATION DOWNSTREAM	437.96 FT

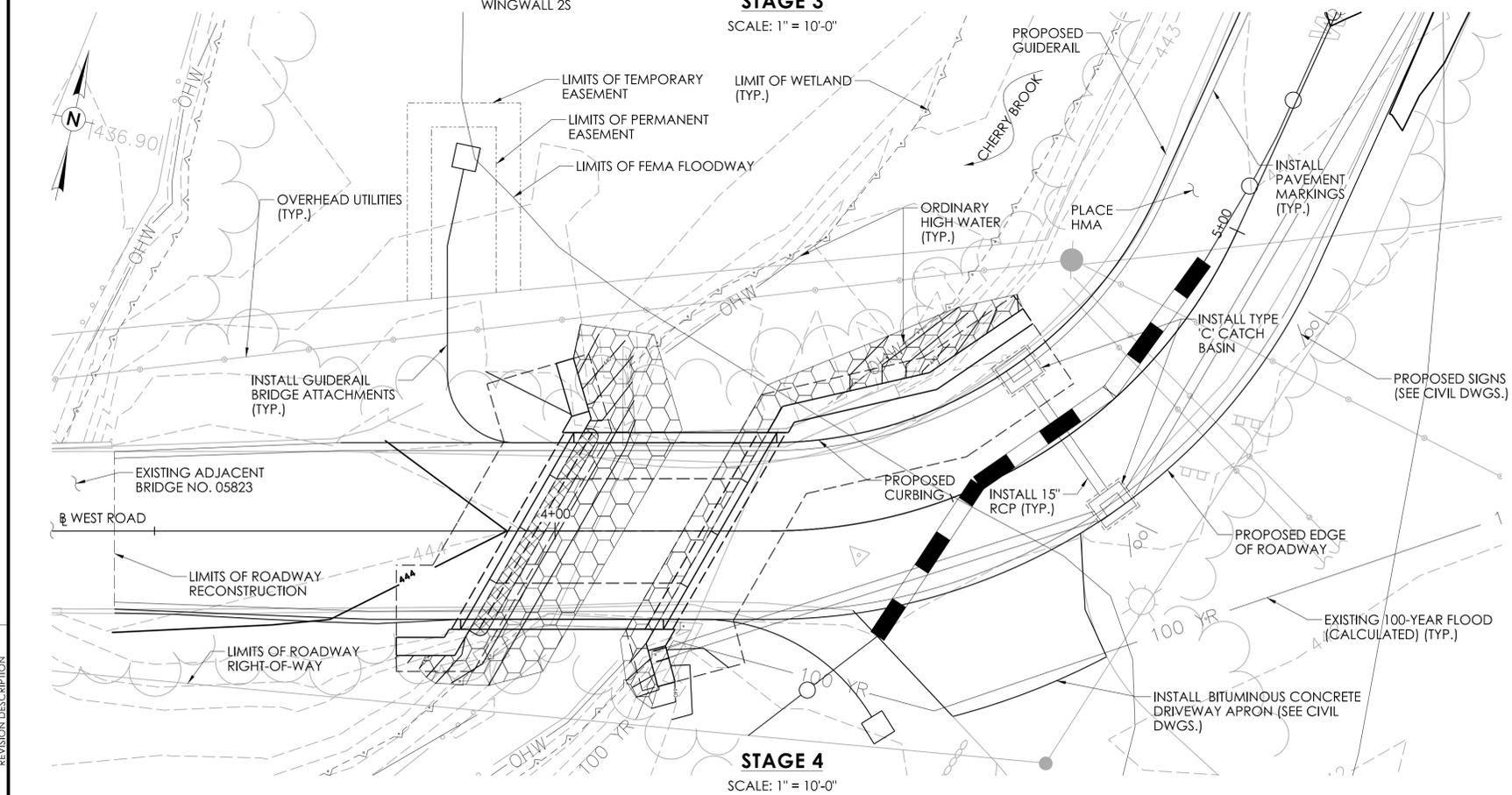
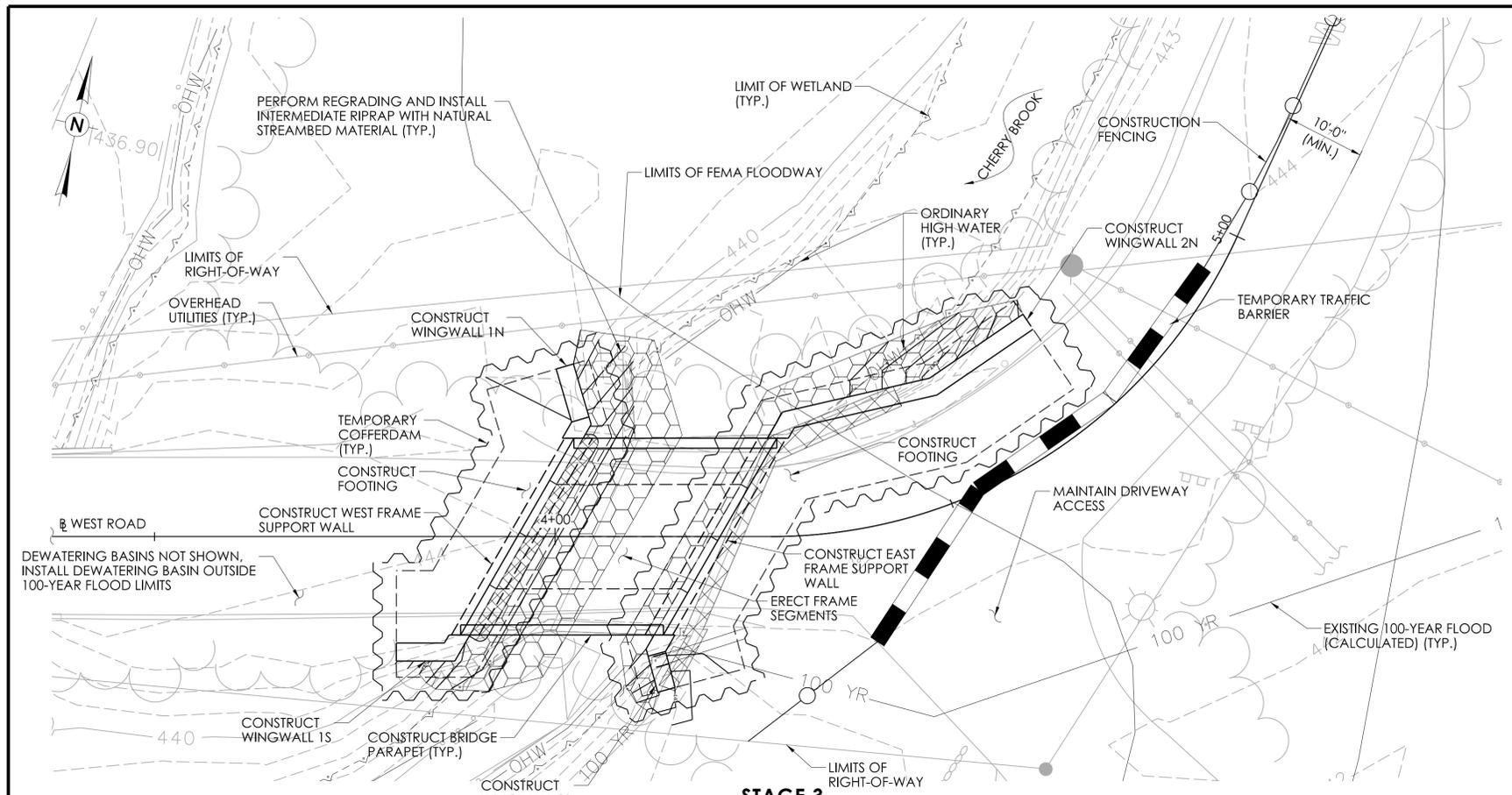
**NOTES:**

1. LOCATION OF DEWATERING BASIN SHALL BE OUTSIDE 100-YEAR FLOOD LIMITS, AND SHALL BE DETERMINED BY CONTRACTOR.
2. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN INSTALLING TEMPORARY COFFERDAMS ADJACENT TO EXISTING UTILITIES TO REMAIN IN PLACE TO ENSURE NO DAMAGE TO UTILITIES OCCURS.
3. THE "SUGGESTED CONSTRUCTION SEQUENCE" IS SHOWN TO OUTLINE SEQUENCE OF MAJOR WORK ONLY. THE CONTRACTOR SHALL PLAN AND PERFORM OTHER ACTIVITIES ACCORDINGLY.
4. THE CONTRACTOR TO PERFORM SIMULTANEOUS ACTIVITIES WHEREVER POSSIBLE.
5. REMOVAL OF EXISTING STEEL ARCH, INCLUDING DEBRIS SHIELD NETTING, SHALL BE PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING SUPERSTRUCTURE".
6. REMOVAL OF EXISTING ARCH SUPPORTS AND WINGWALLS SHALL BE PAID FOR UNDER ITEM "REMOVAL OF EXISTING MASONRY". ALL PORTIONS OF EXISTING MASONRY SHALL BE REMOVED TO MINIMUM 2' BELOW NATURAL STREAMBED MATERIAL, OR AS DIRECTED BY THE ENGINEER. IN THE EVENT OF A CONFLICT BETWEEN EXISTING AND PROPOSED, EXISTING MASONRY SHALL BE REMOVED FULL DEPTH.
7. TEMPORARY TRAFFIC BARRIER SHALL BE PINNED WHEN LIMITATIONS OF HIGHWAY STANDARD DRAWING HW-822\_01 FOR EDGE CLEARANCE CAN NOT BE MET.
8. THE CONTRACTOR SHALL COORDINATE WITH EVERSOURCE FOR DE-ENERGIZING OF OVERHEAD UTILITIES FOR INSTALLATION AND REMOVAL OF COFFERDAM WITHIN 10' OF OVERHEAD LINES. SEE SPECIAL PROVISIONS.

**LEGEND**

- ARCH REMOVAL
- SUBSTRUCTURE REMOVAL
- INTERMEDIATE RIPRAP TOPPED WITH NATURAL STREAMBED CHANNEL MATERIAL
- PREVIOUSLY COMPLETED WORK
- WATER HANDLING
- SUGGESTED COFFERDAM LIMITS
- TEMPORARY PRECAST CONCRETE BARRIER CURB
- CONSTRUCTION FENCING

REV.	DATE	REVISION DESCRIPTION



**SUGGESTED CONSTRUCTION SEQUENCE**

**STAGE 3:**

1. PLACE COMPACTED GRANULAR FILL OVER GEOTEXTILE.
2. CONSTRUCT EAST AND WEST FRAME SUPPORT WALL AND WINGWALL FOOTINGS.
3. CONSTRUCT EAST AND WEST FRAME SUPPORT WALLS, AND WINGWALLS.
4. PLACE RIPRAP AND NATURAL STREAMBED MATERIAL WITHIN LIMITS OF THE TEMPORARY COFFERDAMS, AND REMOVE TEMPORARY COFFERDAMS.
5. ERECT PRECAST THREE SIDED FRAME SECTIONS.
6. PERFORM FINAL GRADING OF BROOK EMBANKMENTS.
7. INSTALL PORTION OF ROADWAY DRAINAGE RCP FOR STAGE 4 CONNECTION AND TIE-IN. BACKFILL BEHIND WINGWALL 2S AS NEEDED.

**STAGE 4:**

1. CONSTRUCT BRIDGE PARAPETS.
2. INSTALL MEMBRANE WATERPROOFING OVER THREE SIDED FRAME.
3. CONSTRUCT PROPOSED DRAINAGE STRUCTURES, CONNECT TO OUTLET RCP THROUGH WINGWALL 2S.
4. BACKFILL BEHIND WINGWALLS AND THREE SIDED FRAME, PERFORM FINAL GRADING OF SITE. REMOVE TEMPORARY TRAFFIC BARRIER AND CONSTRUCTION FENCING.
5. PERFORM ROADWAY RECONSTRUCTION WITHIN PROJECT LIMITS AND INSTALL DRIVEWAY APRON.
6. INSTALL ROADWAY GUIDERAIL.
7. REMOVE CONSTRUCTION SIGNAGE, AND CONSTRUCT BARRICADES, AND OPEN ROAD TO TRAFFIC.

**TEMPORARY HYDRAULIC DATA**

AVERAGE DAILY FLOW	15 CFS
AVERAGE SPRING FLOW	29 CFS
<b>STAGES 3 - 2 YEAR STORM</b>	
2-YEAR FREQUENCY DISCHARGE	415 CFS
2-YEAR WATER SURFACE ELEVATION UPSTREAM	438.68 FT
2-YEAR WATER SURFACE ELEVATION DOWNSTREAM	437.96 FT

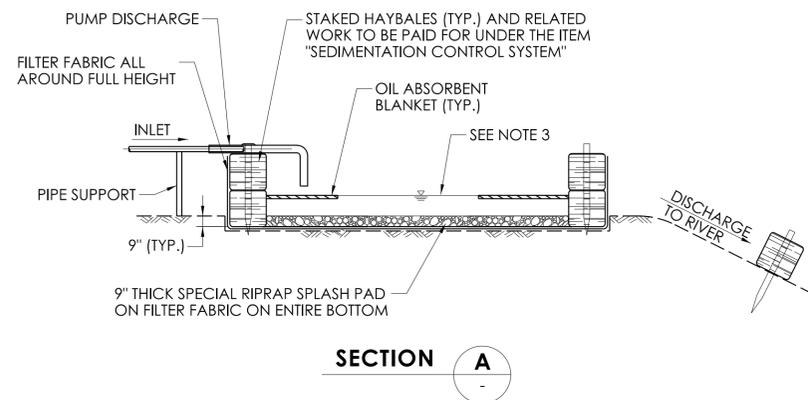
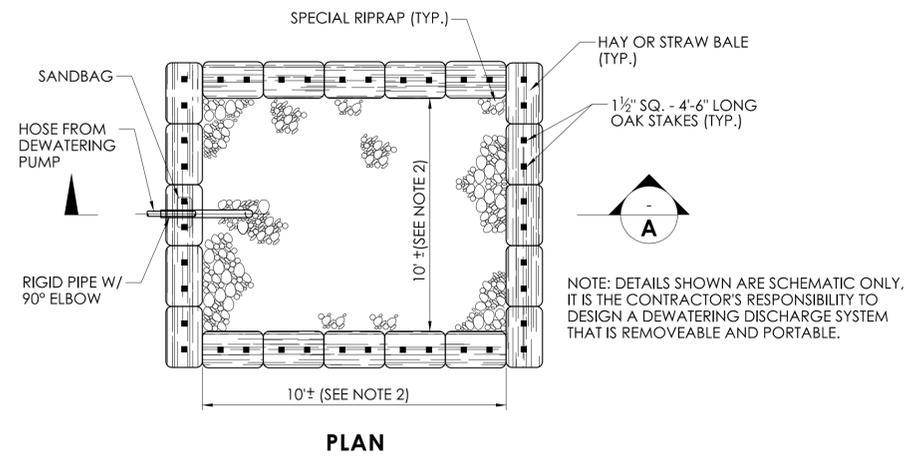
**LEGEND**

- ARCH REMOVAL
- SUBSTRUCTURE REMOVAL
- INTERMEDIATE RIPRAP TOPPED WITH NATURAL STREAMBED CHANNEL MATERIAL
- WATER HANDLING
- SUGGESTED COFFERDAM LIMITS
- TEMPORARY PRECAST CONCRETE BARRIER CURB
- CONSTRUCTION FENCING

**NOTES:**

1. FOR STAGING NOTES, SEE DWG. NO. S-07.

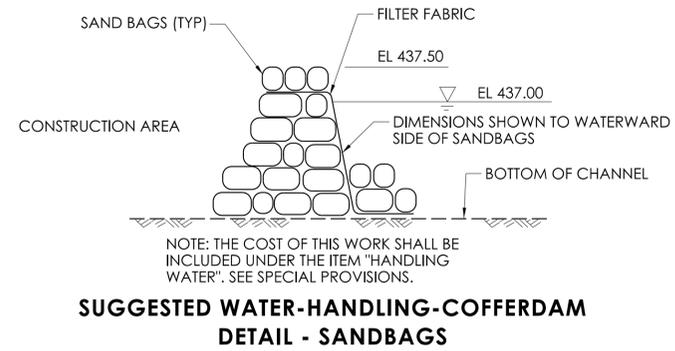
REV.	DATE	REVISION DESCRIPTION



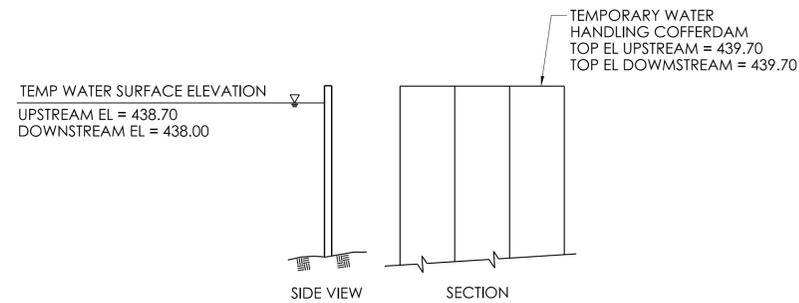
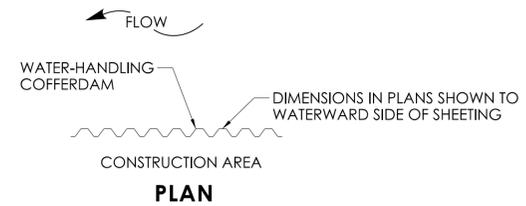
**TEMPORARY SEDIMENT BASIN FOR DEWATERING DISCHARGE**

**BASIN NOTES:**

- CONTRACTOR TO BRACE HAY BALES AS REQUIRED FOR STABILITY.
- DIMENSIONS TO VARY DEPENDENT UPON DE-WATERING RATE.
- VOLUME OF BASIN IS EQUAL TO THE MAXIMUM VOLUME OF WATER CAPABLE OF BEING PUMPED.
- SPECIAL RIPRAP STONE SHALL CONFORM TO NO. 3 STONE AS SHOWN IN SECTION M.01.01 OF CONNDOT FORM 818.
- AT THE COMPLETION OF THE WORK, THE BASIN AND ALL RELATED MATERIALS SHALL BE REMOVED FROM THE SITE, AND THE AREA SHALL BE RETURNED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL BE INCLUDED UNDER EACH ITEM, EXCEPT THE CLEAN-UP WHICH WILL NOT BE MEASURED FOR PAYMENT BUT INCLUDED IN THE GENERAL COST OF THE WORK.
- THE TEMPORARY SEDIMENT BASIN SHALL BE DESIGNED IN ACCORDANCE WITH 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- TEMPORARY SEDIMENT BASIN SHALL BE LOCATED OUTSIDE OF 100-YEAR FLOOD LIMITS AS SHOWN ON THE PLANS.



**SUGGESTED WATER-HANDLING-COFFERDAM DETAIL - SANDBAGS**



**SUGGESTED WATER-HANDLING-COFFERDAM DETAIL - SHEET PILING**

NOTE: THE COST OF THIS WORK SHALL BE INCLUDED UNDER THE ITEM "COFFERDAM AND DEWATERING".

IF PILE DRIVING IS OCCURRING, A "SOFT START" IS REQUIRED TO ALLOW ANIMALS AN OPPORTUNITY TO LEAVE THE PROJECT VICINITY BEFORE SOUND PRESSURE LEVELS INCREASE. IN ADDITION TO USING A SOFT START AT THE BEGINNING OF THE WORK DAY FOR PILE DRIVING, ONE MUST ALSO BE USED AT ANY TIME FOLLOWING CESSATION OF PILE DRIVING FOR A PERIOD OF 30 MINUTES OR LONGER.

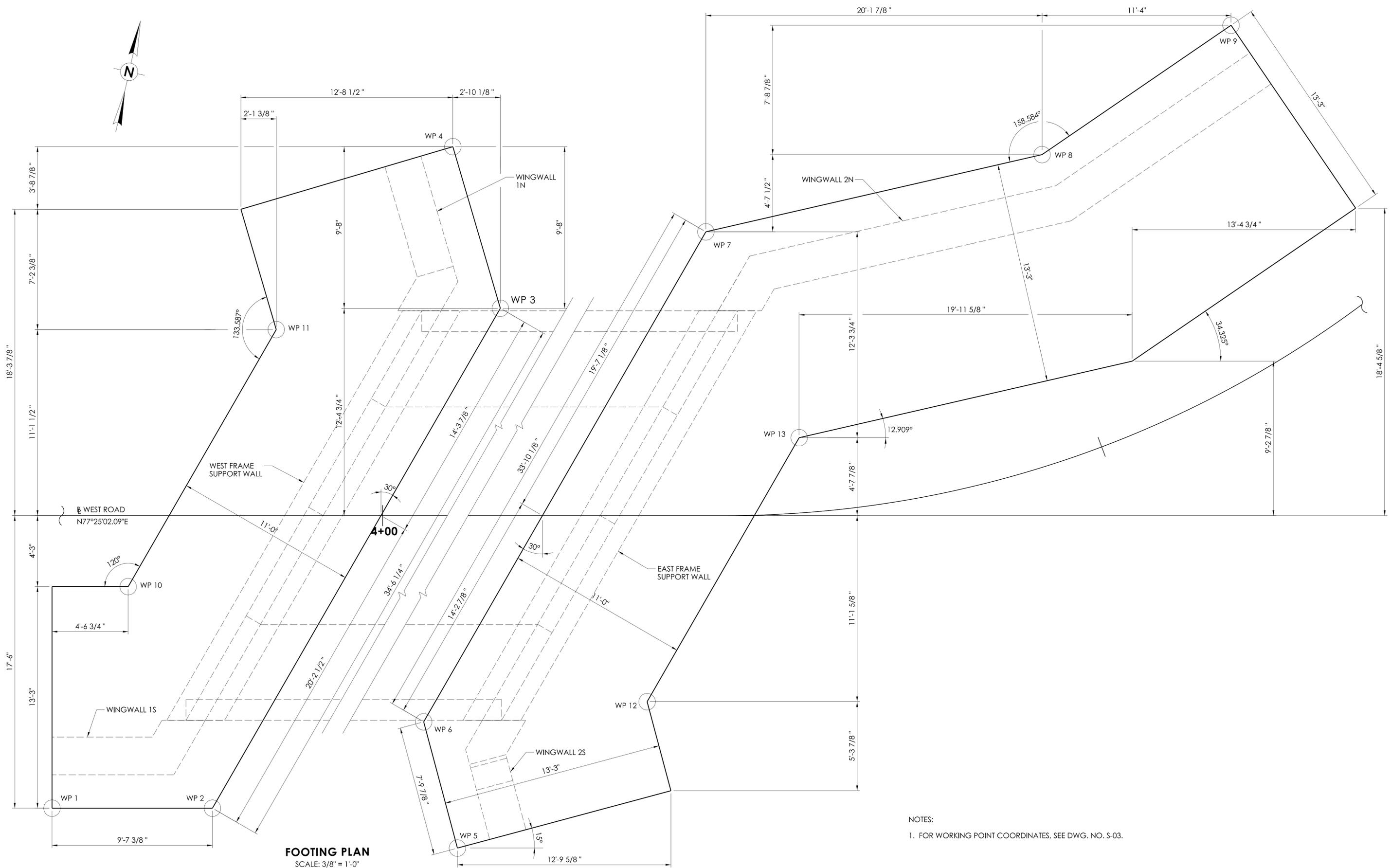
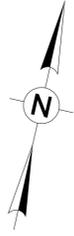
FOR IMPACT PILE DRIVING: PILE DRIVING WILL COMMENCE WITH AN INITIAL SET OF THREE STRIKES BY THE HAMMER AT 40% ENERGY, FOLLOWED BY A ONE MINUTE WAIT PERIOD, THEN TWO SUBSEQUENT THREE-STRIKE SETS AT 40% ENERGY, WITH ONE-MINUTE WAITING PERIODS, BEFORE INITIATING CONTINUOUS IMPACT DRIVING.

FOR VIBRATORY PILE INSTALLATION: PILE DRIVING WILL BE INITIATED FOR 15 SECONDS AT REDUCED ENERGY FOLLOWED BY A ONE-MINUTE WAITING PERIOD. THIS SEQUENCE OF 15 SECONDS OF REDUCED ENERGY DRIVING, ONE-MINUTE WAITING PERIOD WILL BE REPEATED TWO ADDITIONAL TIMES, FOLLOWED IMMEDIATELY BY PILE-DRIVING AT FULL RATE AND ENERGY.

**WATER HANDLING NOTES:**

- THE CONTRACTOR SHALL MAINTAIN THE MINIMUM HYDRAULIC OPENINGS OF BROOK SHOWN ON THE STAGING PLANS THROUGHOUT LIMITS OF CONSTRUCTION DURING THE CONSTRUCTION OF THE NEW STRUCTURE.
- EQUIPMENT SHALL NOT BE PERMITTED IN THE BROOK WHEN TEMPORARY WATER HANDLING SYSTEM IS NOT IN PLACE WITHOUT APPROVAL FROM THE ENGINEER.
- A DEWATERING BASIN SHALL BE ESTABLISHED OUTSIDE OF THE 100-YEAR FLOOD LIMITS.
- TEMPORARY WATER-HANDLING-COFFERDAM SYSTEM SHOWN IS FOR INFORMATION ONLY. THE PROPOSED TEMPORARY WATER-HANDLING-COFFERDAM SHALL CONSIST OF AN APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH SHALL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREAS, SHALL BE SUITABLE FOR EXISTING SUBSTRATE CONDITIONS, SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY, AND SHALL CONFORM TO PERMITS.
- WATER HANDLING MEASURES SHALL NOT EXCEED IMPACT AREAS SHOWN ON THE WETLAND AND FLOODPLAIN IMPACT SHEETS OF THE PERMIT PLANS.
- IF A SHORT DURATION PUMP SYSTEM IS PROPOSED DURING LOW FLOW CONDITIONS, THE PUMP SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AND HAVE A MINIMUM CAPACITY AS SHOWN IN THE TEMPORARY HYDRAULIC TABLE. PUMP SYSTEM PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL TAKE NOTE THAT SHALLOW BEDROCK MAY BE ENCOUNTERED, AN ALTERNATIVE COFFERDAM METHOD MAY BE REQUIRED IN LIEU OF STANDARD SHEET PILE COFFERDAM.

REV.	DATE	REVISION DESCRIPTION



**FOOTING PLAN**  
SCALE: 3/8" = 1'-0"

NOTES:  
1. FOR WORKING POINT COORDINATES, SEE DWG. NO. S-03.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: GTG  
CHECKED BY: GTG

SCALE AS NOTED

SIGNATURE/  
BLOCK:



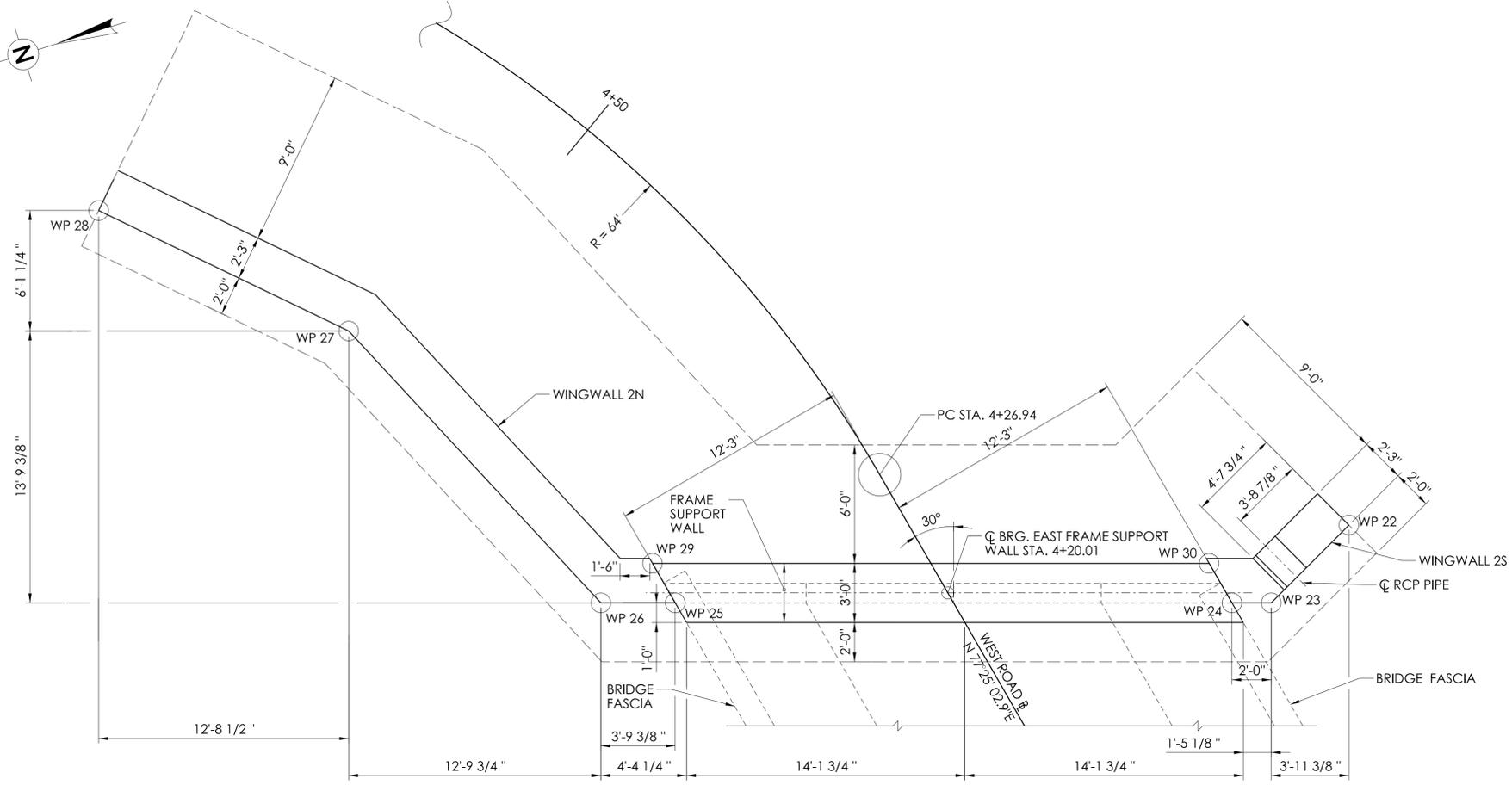
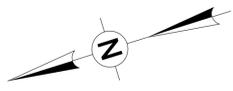
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GLASTONBURY, CT 06033



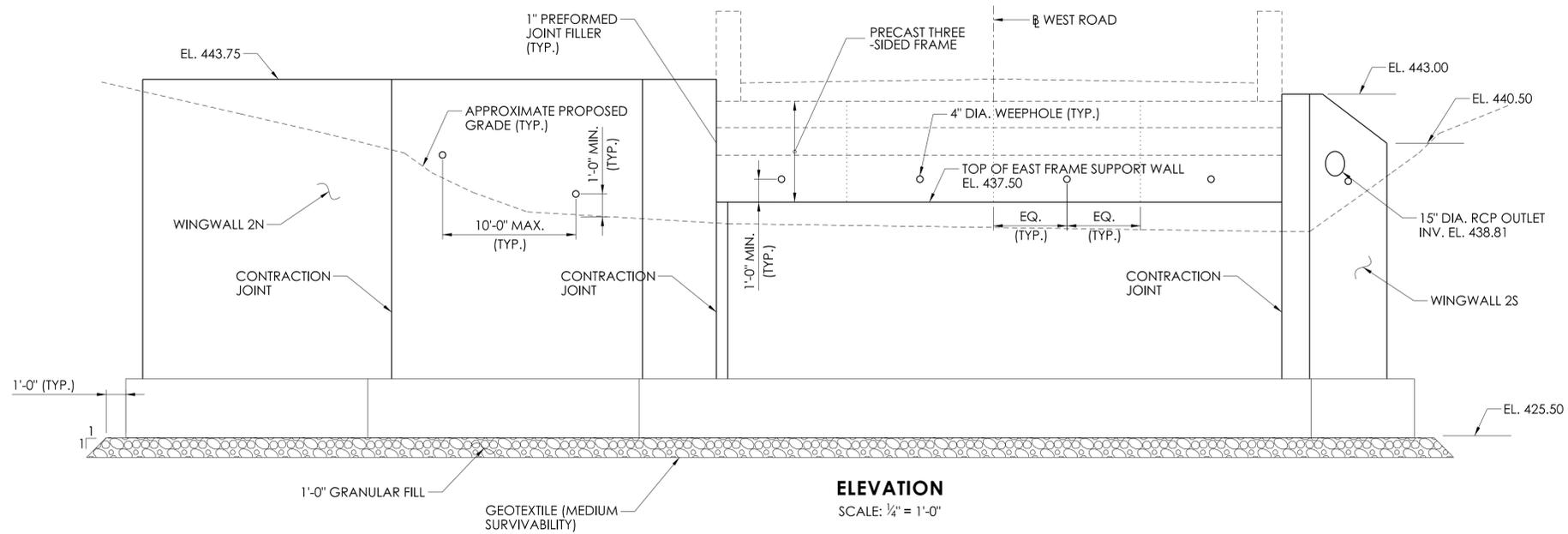
TOWN OF CANTON  
CONNECTICUT

PROJECT NUMBER: BR023008-2020  
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 023008  
TOWN(S): CANTON  
DRAWING TITLE: FOOTING PLAN

DRAWING NO.  
S-10  
SHEET NO.  
**04.11**



**PLAN**  
SCALE: 1/4" = 1'-0"



**ELEVATION**  
SCALE: 1/4" = 1'-0"

**NOTES:**

1. FOR FURTHER DETAILS OF FRAME SUPPORT WALL AND WINGWALLS, SEE DWG. NO. S-13.
2. FOR WORKING POINT COORDINATES, SEE DWG. S-03.
3. MAXIMUM DESIGN FOUNDATION PRESSURE:  
STRENGTH I: 5.49 KSF  
SERVICE I: 3.71 KSF

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: GTG  
CHECKED BY: GTG

SCALE AS NOTED

SIGNATURE/  
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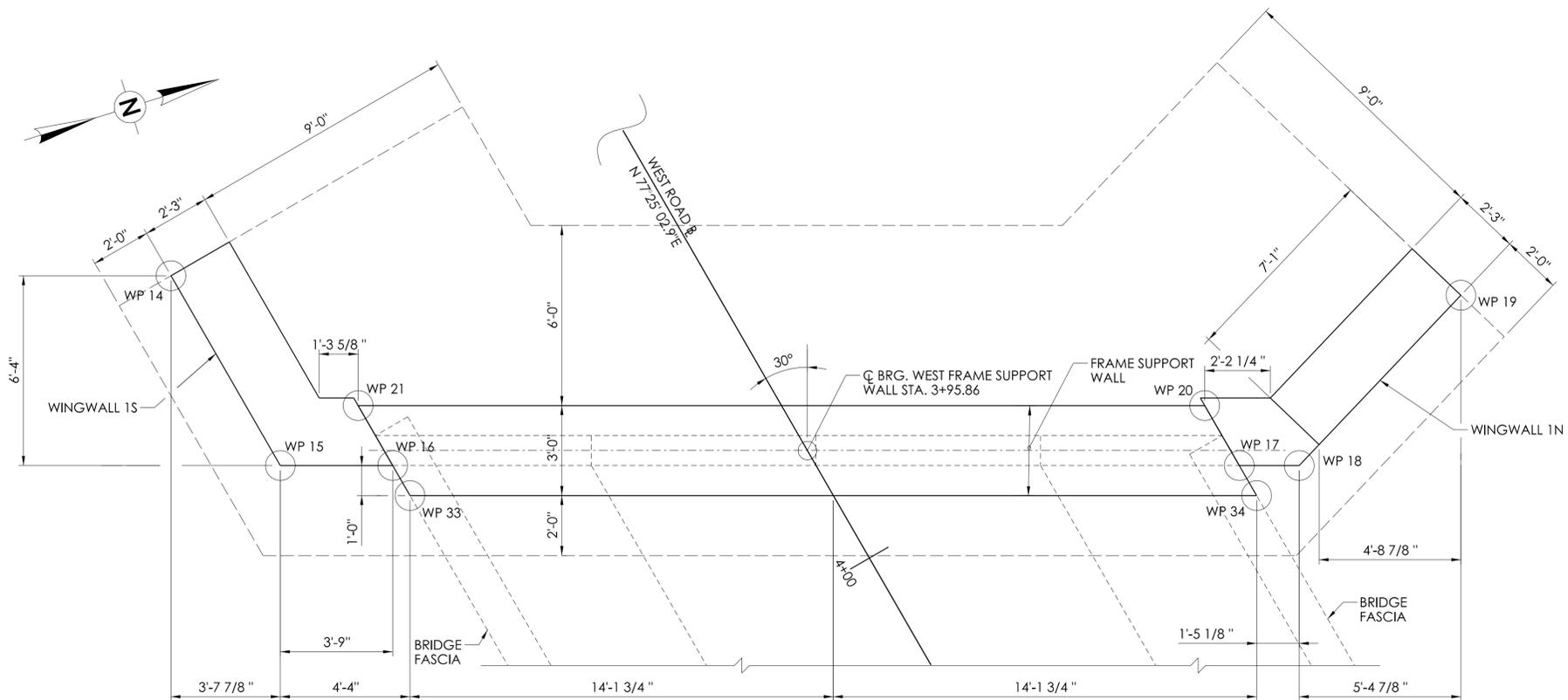
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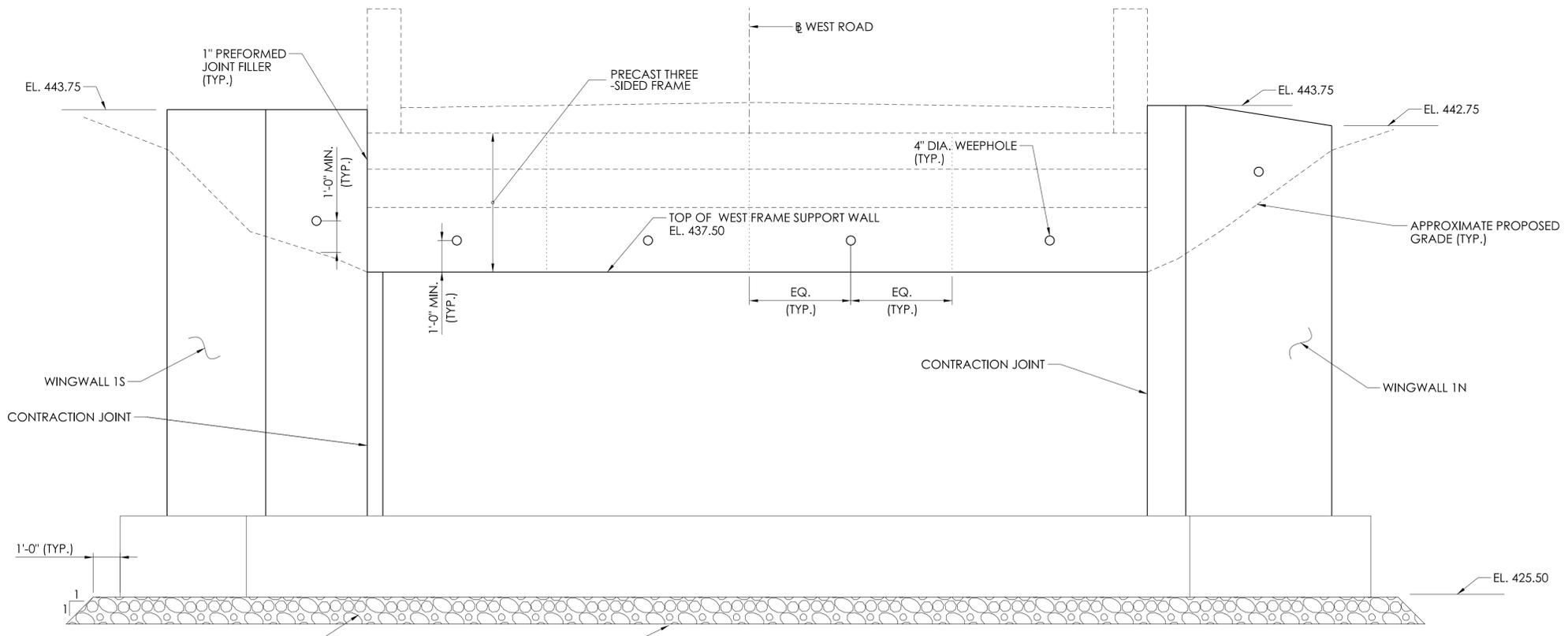
TOWN OF CANTON  
CONNECTICUT

PROJECT NUMBER: BR023008-2020  
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 023008  
TOWN(S): CANTON  
DRAWING TITLE: EAST SUPPORT WALL AND WINGWALL PLAN

DRAWING NO. S-11  
SHEET NO. 04.12



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



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

**NOTES:**

1. FOR FURTHER DETAILS OF FRAME SUPPORT WALL AND WINGWALLS, SEE DWG. NO S-13.
2. FOR WORKING POINT COORDINATES, SEE DWG. S-03.
3. MAXIMUM DESIGN FOUNDATION PRESSURE:  
STRENGTH I: 5.49 KSF  
SERVICE I: 3.71 KSF

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: GTG  
CHECKED BY: GTG

SCALE AS NOTED

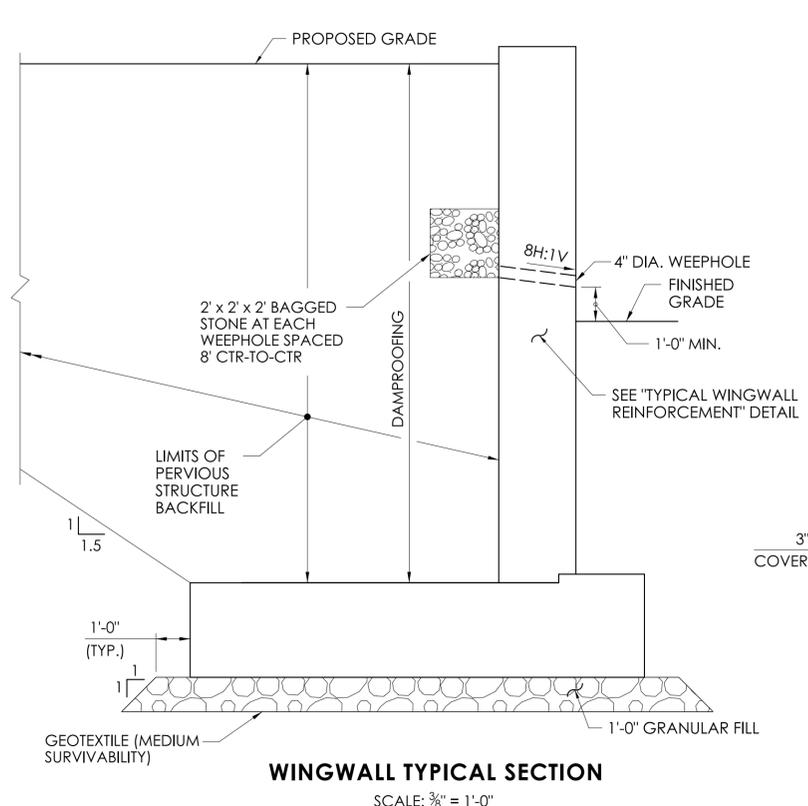
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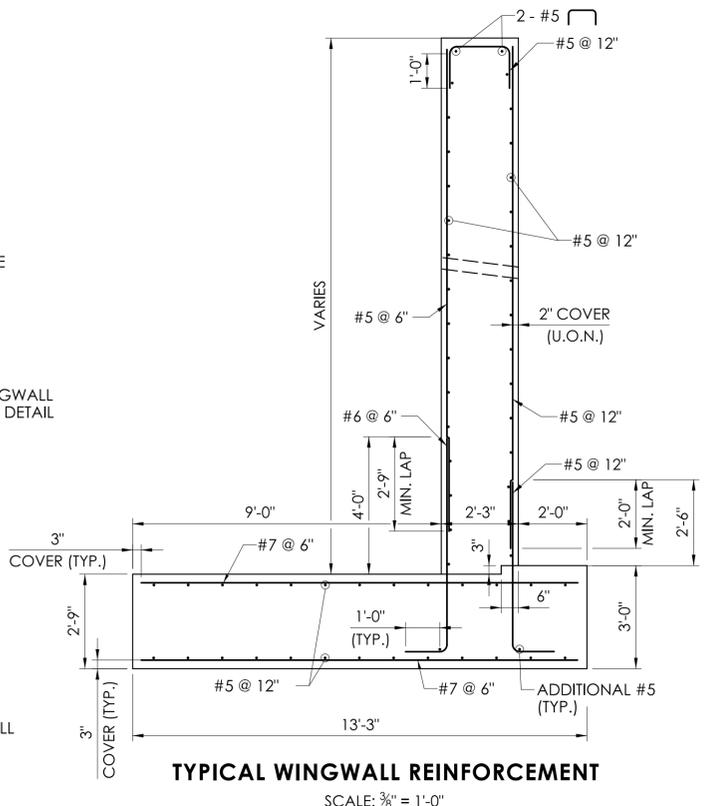
TOWN OF CANTON CONNECTICUT

PROJECT NUMBER: BR023008-2020  
PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 023008  
TOWN(S): CANTON  
DRAWING TITLE: WEST SUPPORT WALL AND WINGWALL PLAN

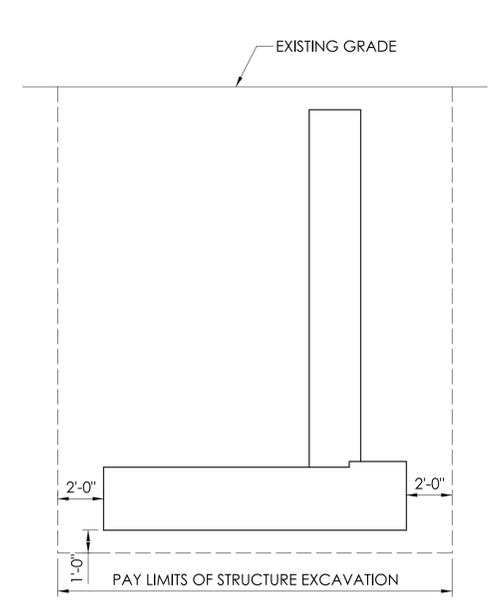
DRAWING NO. S-12  
SHEET NO. 04.13



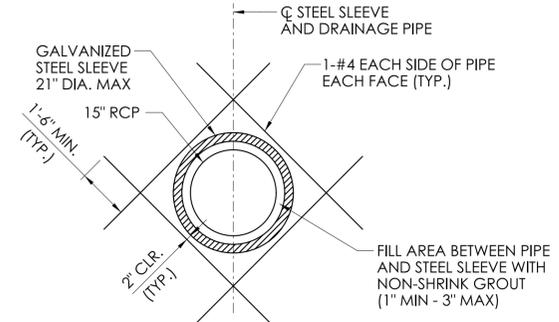
**WINGWALL TYPICAL SECTION**  
SCALE: 3/8" = 1'-0"



**TYPICAL WINGWALL REINFORCEMENT**  
SCALE: 3/8" = 1'-0"



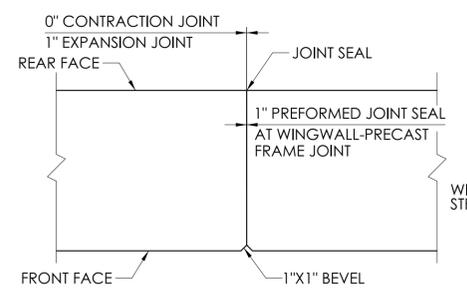
**STRUCTURE EXCAVATION DETAIL**  
NOT TO SCALE



**DRAINAGE PIPE OUTLET REINFORCEMENT DETAIL**  
NOT TO SCALE

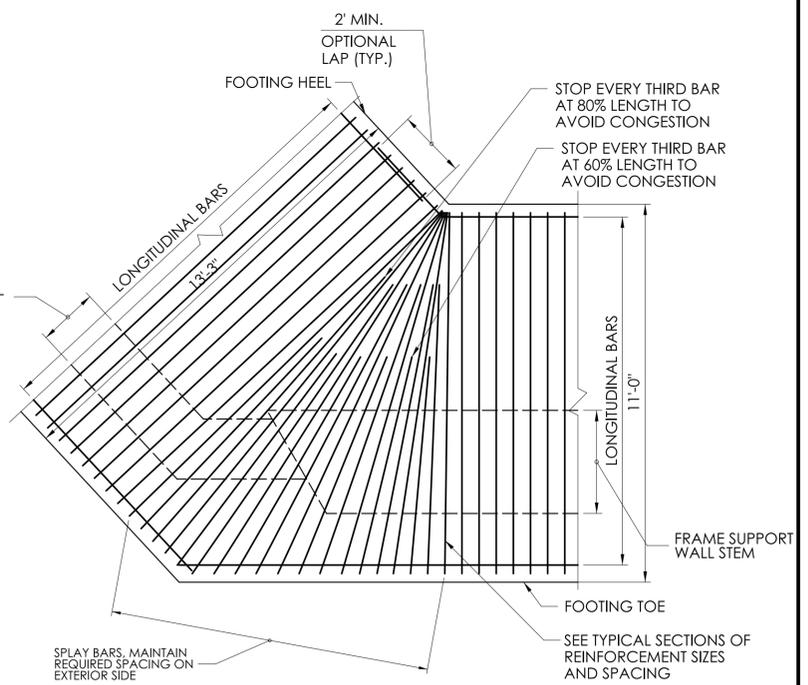
- NOTES**
1. THE CONTRACTOR MAY ELECT TO PROVIDE CONTINUOUS STONE BAG WITH DRAIN PIPE DRAINING TO OUTSIDE LIMITS OF WINGWALLS IN LIEU OF WEEPHOLES. USE OF CONTINUOUS DRAIN PIPE SHALL BE AT NO ADDITIONAL COST TO THE TOWN.
  2. THE CONTRACTOR MAY ELECT TO USE CRUSHED STONE SATISFYING REQUIREMENTS OF M.01.01 NO. 6 AT NO ADDITIONAL COST TO THE TOWN.
  3. SHIMS AND NON-SHRINK GROUT UTILIZED FROM PRECAST FRAME SUPPORT SEAT SHALL BE INCLUDED FOR PAYMENT UNDER ITEM "PRECAST CONCRETE THREE SIDED RIGID FRAME".

- STEEL SLEEVE NOTE**
1. THE COST OF INSTALLING GALVANIZED STEEL SLEEVES FOR DRAINAGE OUTLETS SHALL BE INCLUDED IN THE ITEM "ABUTMENT AND WALL CONCRETE".

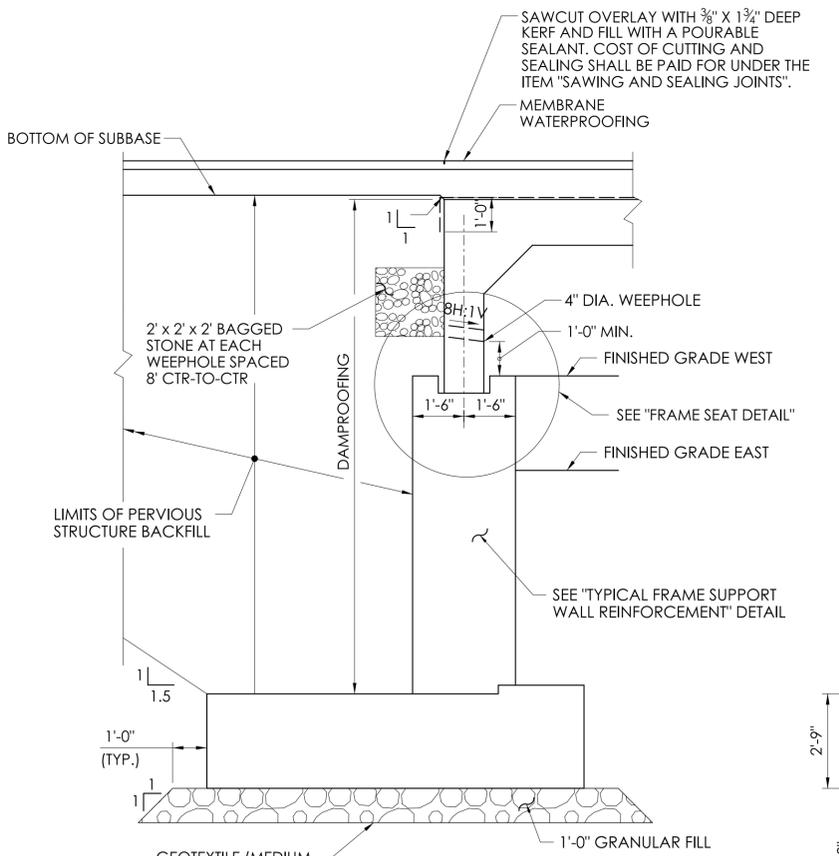


**VERTICAL STEM JOINT DETAIL**  
SCALE: 3/4" = 1'-0"

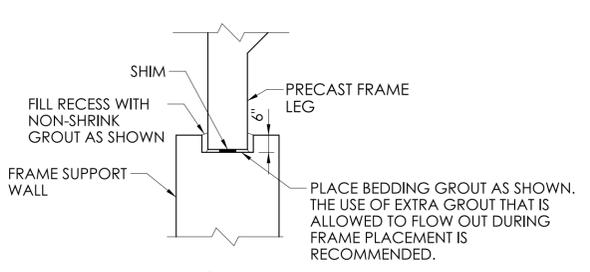
- VERTICAL STEM JOINT NOTES**
1. JOINT SEAL AND 1" PERFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE ITEM "ABUTMENT AND WALL CONCRETE".
  2. JOINT SEAL TO EXTEND FROM TOP OF FOOTING TO TOP STEM.
  3. NO REINFORCEMENT SHALL PASS THROUGH EXPANSION OR CONTRACTION JOINTS. REINFORCEMENT SHALL PASS THROUGH CONSTRUCTION JOINTS.



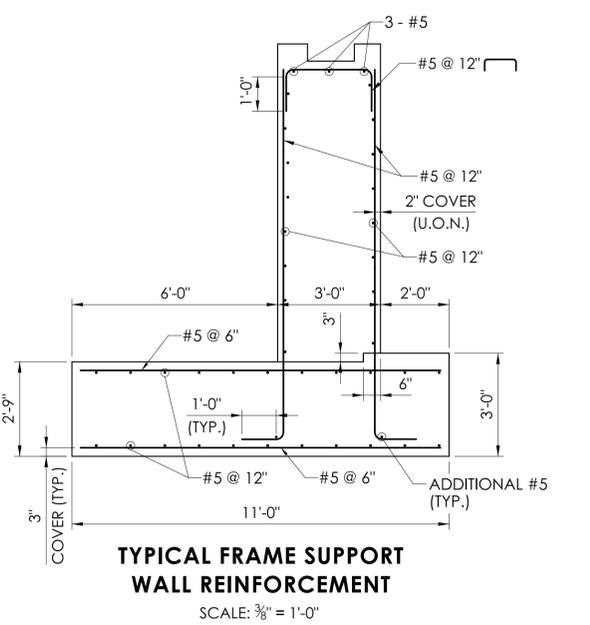
**FOOTING CORNER REINFORCEMENT DETAIL**  
NOTE TO SCALE



**FRAME SUPPORT WALL TYPICAL SECTION**  
SCALE: 3/8" = 1'-0"



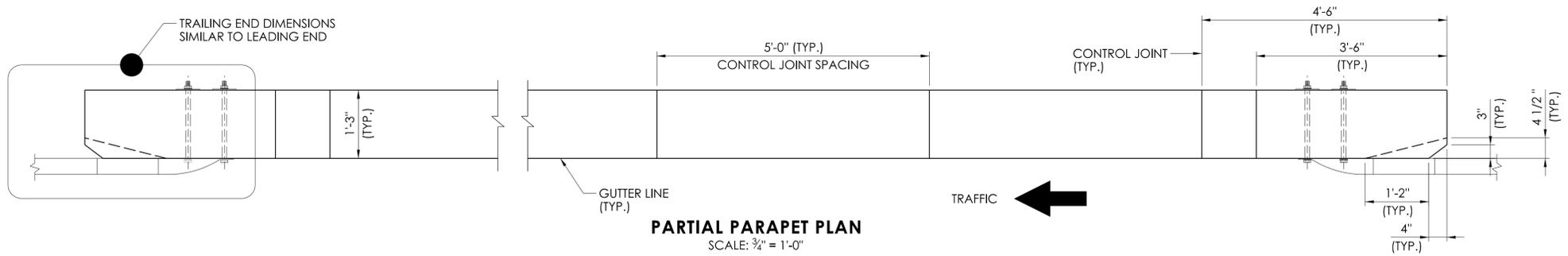
**FRAME SEAT DETAIL**  
SCALE: 3/8" = 1'-0"



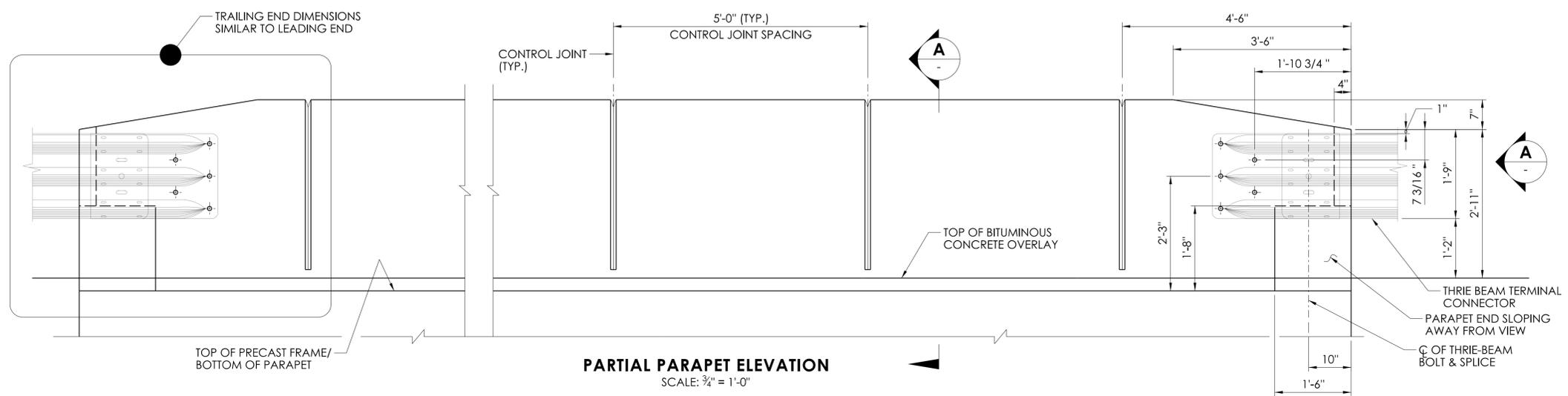
**TYPICAL FRAME SUPPORT WALL REINFORCEMENT**  
SCALE: 3/8" = 1'-0"

REV.	DATE	REVISION DESCRIPTION

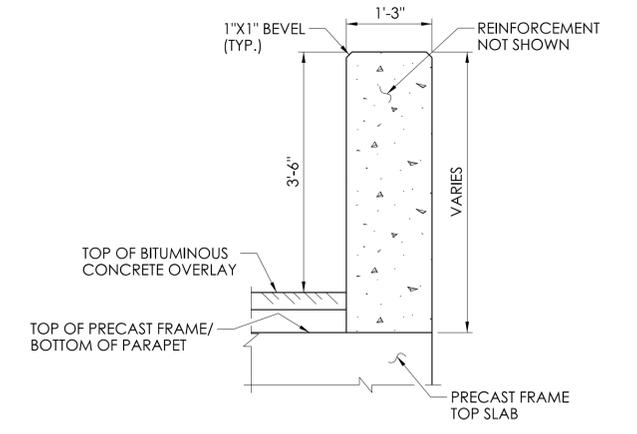




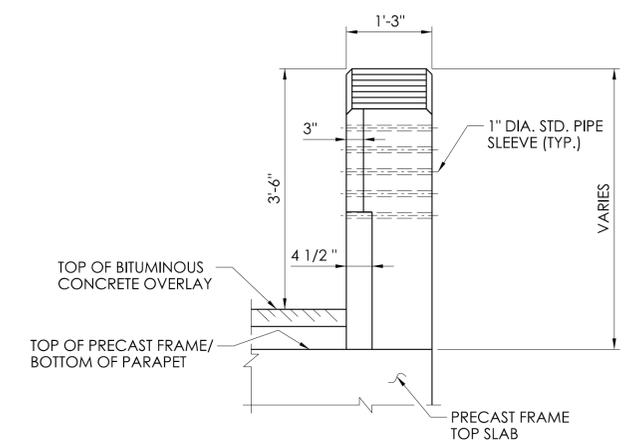
**PARTIAL PARAPET PLAN**  
SCALE: 3/4" = 1'-0"



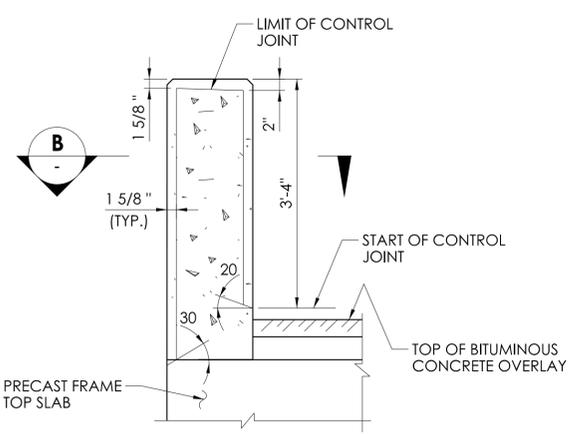
**PARTIAL PARAPET ELEVATION**  
SCALE: 3/4" = 1'-0"



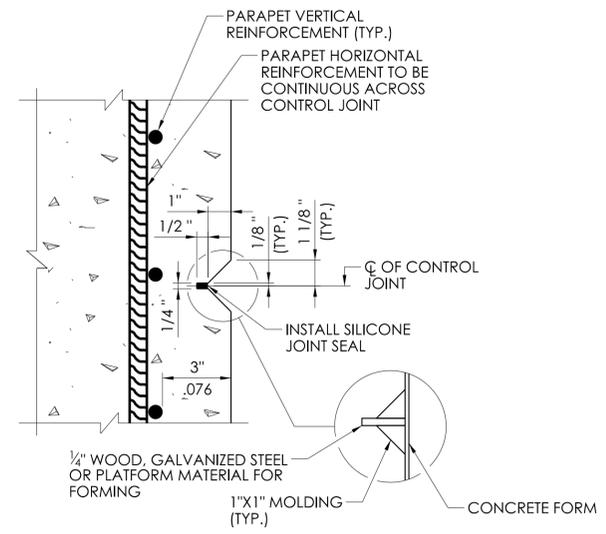
**SECTION A**  
SCALE: 3/4" = 1'-0"



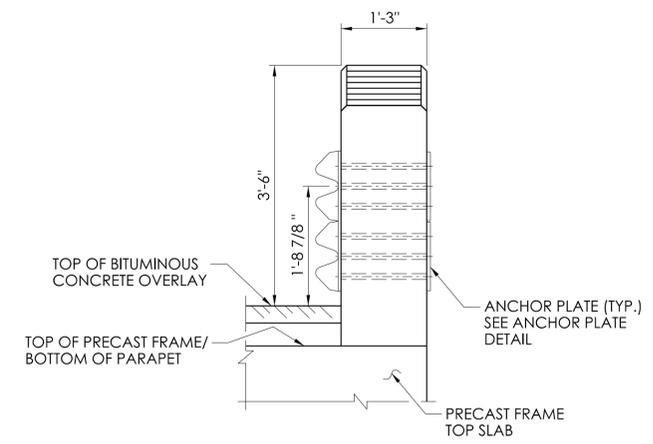
**VIEW A**  
SCALE: 3/4" = 1'-0"



**PARTIAL CONTROL JOINT DETAIL**  
SCALE: 3/4" = 1'-0"



**SECTION B**  
SCALE: 3" = 1'-0"



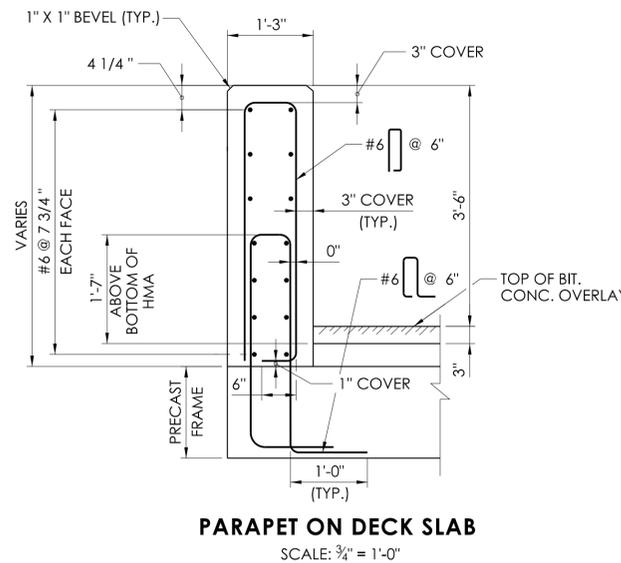
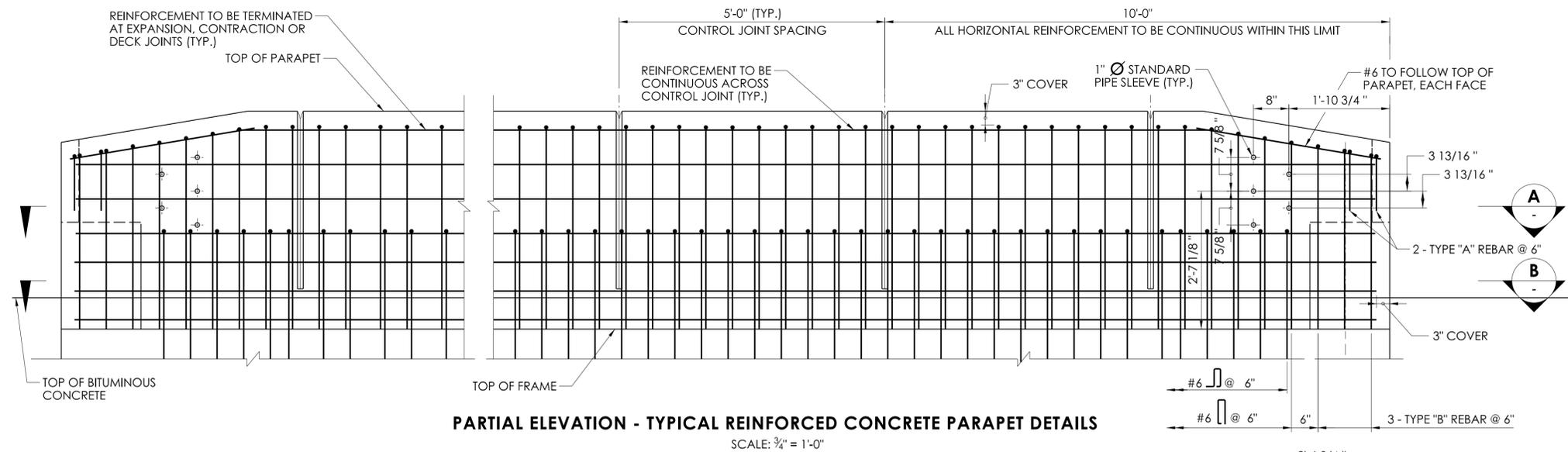
**SOUTHEAST R-B 350 ENDBLOCK DETAIL**  
SCALE: 3/4" = 1'-0"

- R-B 350 ATTACHMENT NOTES:**
- STEEL PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. THE STEEL PLATES SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.
  - ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325, AND SHALL BE MECHANICALLY GALVANIZED.
  - 1" DIAMETER PIPE SHALL CONFORM TO ASTM A53, GRADE B OR ASTM A501 AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.

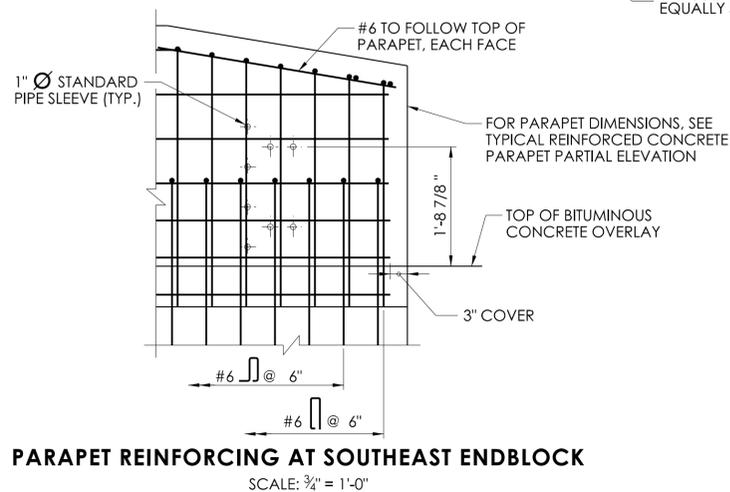
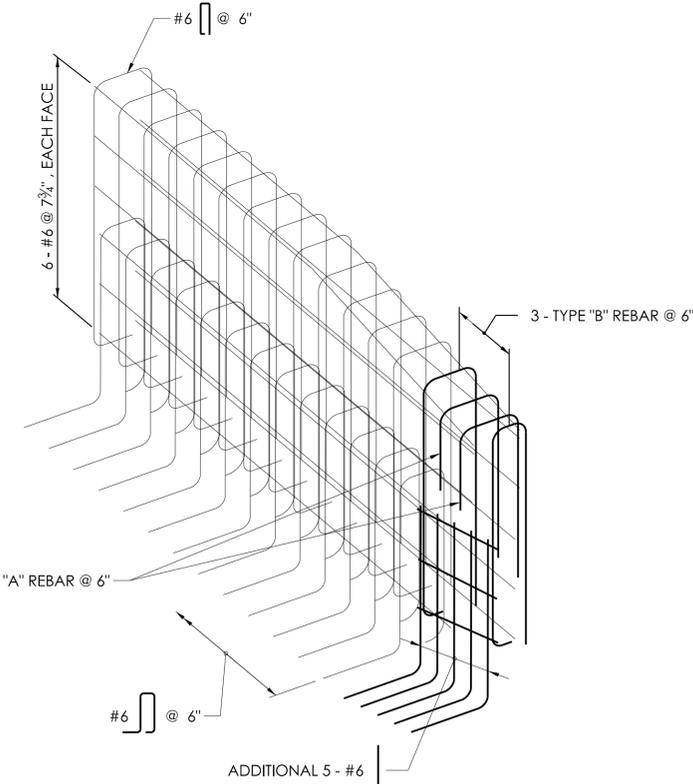
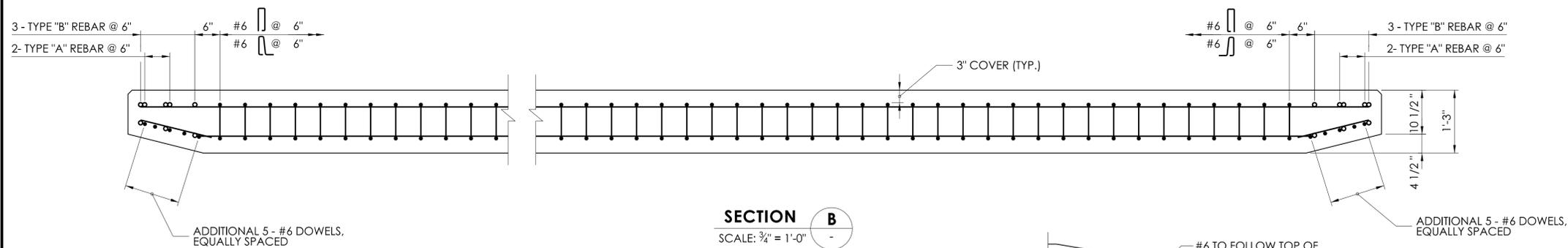
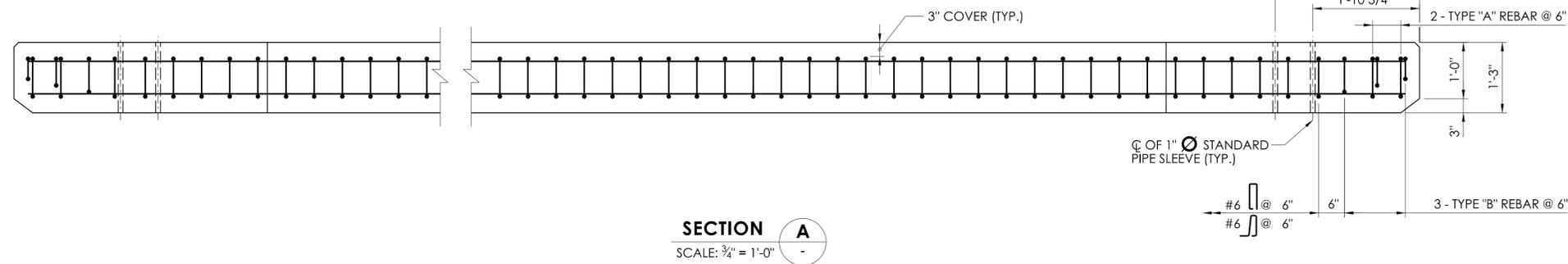
**R-B 350 ATTACHMENT ANCHOR PLATE DETAIL**  
SCALE: 3" = 1'-0"

- NOTES:**
- THRIE-BEAM ATTACHMENT SHALL BE INSTALLED AT ALL CORNERS EXCEPT SOUTHEAST ENDBLOCK, WHERE AN R-B 350 ATTACHMENT SHALL BE INSTALLED.
  - PENETRATING SEALER PROTECTIVE COMPOUND SHALL BE APPLIED TO TRAFFIC SIDE FACE AND TOP OF PROPOSED BRIDGE PARAPETS.
  - THRIE-BEAM AND R-B 350 ATTACHMENTS SHALL BE INSTALLED PER HIGHWAY STANDARD DRAWINGS.

REV.	DATE	REVISION DESCRIPTION

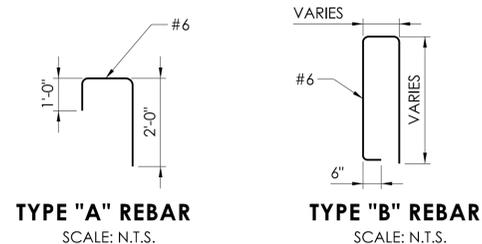


NOTE:  
1. PARAPET REINFORCING SHOWN CAST WITH PRECAST THREE-SIDED FRAME. THE CONTRACTOR MAY ELECT TO USE DOWELED CONNECTIONS OF PARAPET REINFORCING TO PRECAST FRAME SLAB. THE CONNECTION OF CONCRETE PARAPET TO PRECAST FRAME SHALL BE DESIGNED BY THE PRECAST FRAME MANUFACTURER FOR MASH IMPACT LOAD TL-3 MINIMUM.



**REINFORCEMENT SPLICE NOTES:**  
1. THE SPLICE LENGTH FOR THE REINFORCEMENT IN THE PARAPETS SHALL BE AS FOLLOWS UNLESS DIMENSIONED OTHERWISE.  
2. THE SPLICES SHALL BE ALTERNATED SO THAT 50% OR LESS OF THE LONGITUDINAL BARS ARE SPLICED AT THE SAME LOCATION.

BAR SIZE	SPLICE LENGTH
#6	2'-9"



REV.	DATE	REVISION DESCRIPTION