

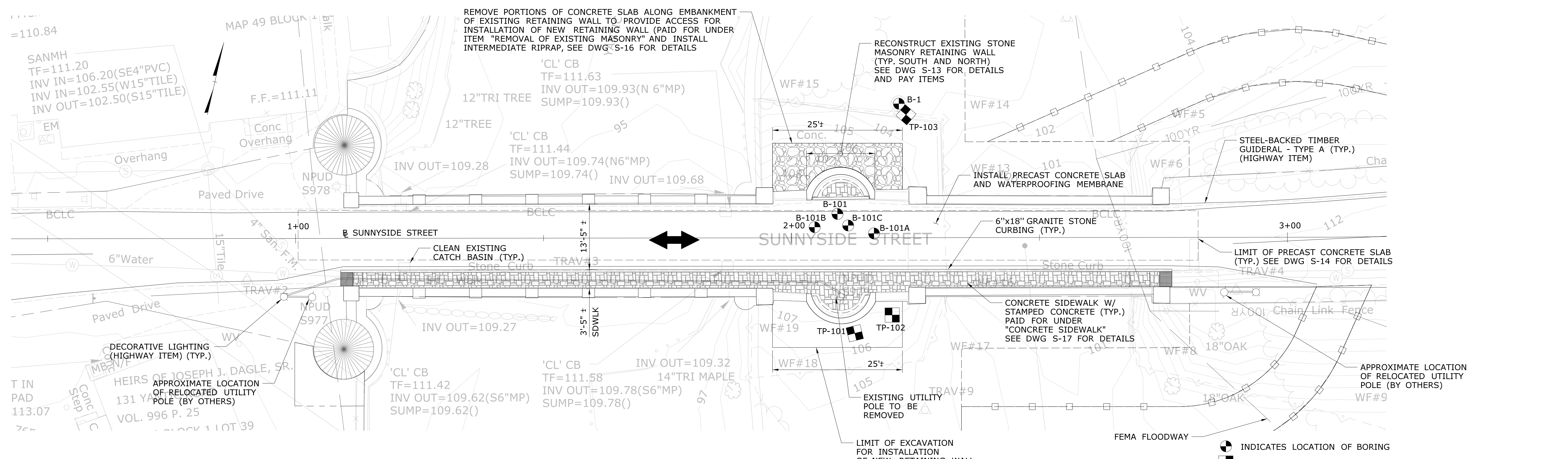
04 - STRUCTURE INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-01	INDEX OF STUCTURE DRAWINGS		
S-02	GENERAL PLAN AND ELEVATION		
S-03	SECTIONS, QUANTITIES AND NOTES		
S-04	BORING LOGS - 1		
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S-07	TEST PIT LOGS		
S-08	STAGE CONSTRUCTION - 1		
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S-11	NORTH ELEVATION AND DETAILS		
S-12	SOUTH ELEVATION AND DETAILS		
S-13	RETAINING WALL PLAN AND DETAILS		
S-14	PRECAST CONCRETE SLAB		
S-15	TURRET REPAIR DETAILS		
S-16	GROUND STABILIZATION PLAN AND DETAILS		
S-17	CONCRETE SIDEWALK		

DESIGNED BY:
ALFRED BENESCH & CO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Filename: \$FILEAS



PLAN VIEW
SCALE: 1" = 10'

INSTALL DECORATIVE LIGHTS AND FOUNDATIONS (HIGHWAY ITEM, TYP.)

REPLACE EXISTING SHINGLES AND REPAIR ROOF STRUCTURE ON TURRETS. SEE DWG S-15 FOR DETAILS.

REPOINT EXISTING TURRET WALL (TYP.)

100 YEAR STORM
EL. 109.50 (DOWNSTREAM)
EL. 110.04 (UPSTREAM)

ORDINARY HIGH WATER
EL. 101.11

REPOINT EXISTING SPANDREL WALL, AND ARCH (TYP.)

72'-0"±
SPAN 1

RECONSTRUCT EXISTING BRIDGE PARAPET (TYP.) SEE DWG S-11 AND S-12

STEEL-BACKED TIMBER GUIDERAIL BRIDGE-ATTACHMENT (SEE DWG. NO. S-17)

STEEL-BACKED TIMBER GUIDERAIL - TYPE A (TYP.) (HIGHWAY ITEM)

RECONSTRUCT EXIST. RETAINING WALL, SEE DWG NO. S-13 FOR DETAILS AND PAY ITEMS

RESET EXISTING RIPRAP AND MATCH EXISTING GRADE (SEE DWG S-16 FOR LIMITS) PAID FOR UNDER ITEM "RESET EXISTING RIPRAP"

EXISTING GRADE

REPOINT EXISTING ARCH UNDERSIDE (TYP.) SEE DWG NO. S-11 AND S-12 FOR LOCATIONS REQUIRING REPOINTING

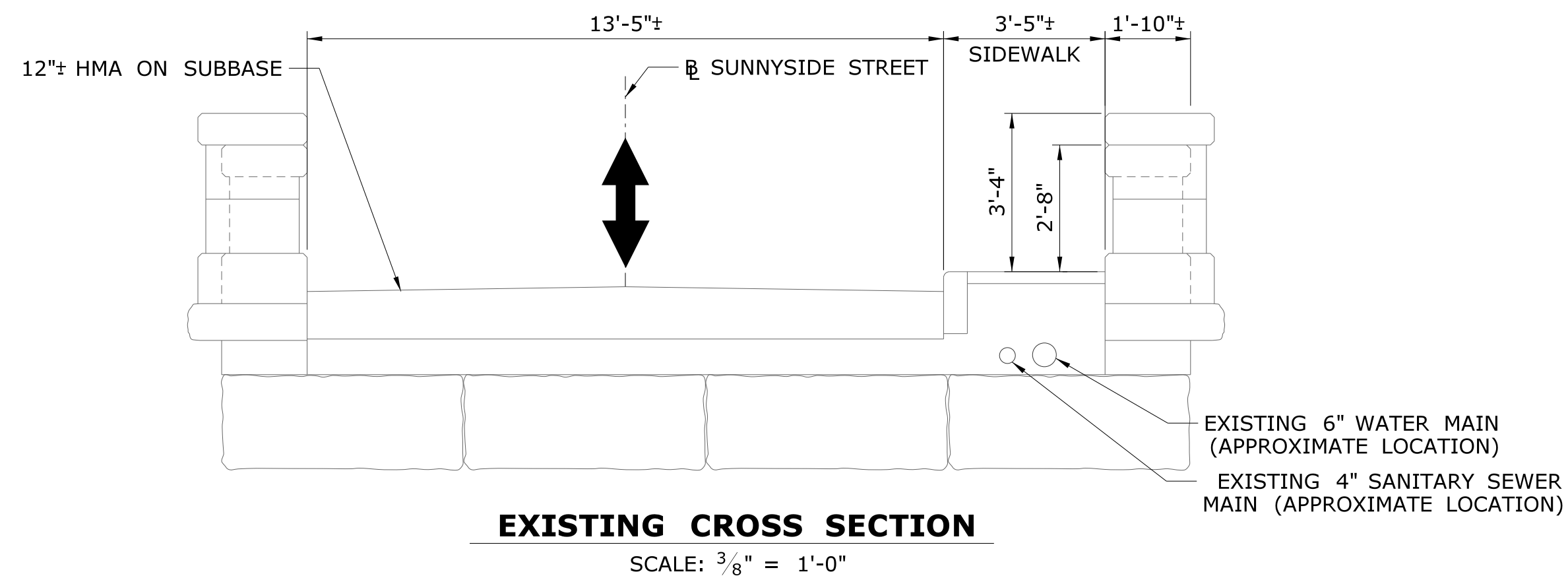
36'-6"±
SPAN 2

SOUTH ELEVATION
SCALE: 1" = 10'

HYDRAULIC SUMMARY TABLE	
DRAINAGE AREA [SQ. MI.]	90
DESIGN FREQUENCY [YEAR]	100
DESIGN DISCHARGE [CFS]	11,015
AVERAGE DAILY FLOW ELEVATION [FT]	97.42 -
DESIGN WATER SURFACE EL. - UPSTREAM [FT]	110.04
DESIGN WATER SURFACE EL. - DOWNSTREAM [FT]	109.50
MAXIMUM SCOUR ELEVATION [FT]	72.02
FREQUENCY [YEAR]	500
DISCHARGE [CFS]	22,600
WORST CASE SCOUR SUBSTRUCTURE UNIT	EAST ABUTMENT (SPAN 1)

CONCRETE DISTRIBUTION		
SUPERSTRUCTURE	C.Y.	18
SUBSTRUCTURE	C.Y.	20
FOOTINGS	C.Y.	16
TOTAL	C.Y.	54

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: \$DATES	DESIGNER/DRAFTER: S. LACHCIK CHECKED BY: R. MEARS SCALE AS NOTED		SIGNATURE/BLOCK: Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH	PROJECT NO. 103-261 DRAWING NO. S-02 SHEET NO. 4.02
REV. DATE REVISION DESCRIPTION SHEET NO.	DRAWING TITLE: GENERAL PLAN AND ELEVATION					



GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 817 (2016), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 2018 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2014 7TH EDITION, WITH THE INTERIM SPECIFICATIONS UP TO AND INCLUDING 2015, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003). (NEW ELEMENTS ONLY)

ALLOWABLE DESIGN STRESSES:
 CLASS 'A' CONCRETE BASED ON F'c = 3000 PSI
 CLASS 'F' CONCRETE BASED ON F'c = 4000 PSI (PRECAST CONCRETE SLAB)
 HIGH EARLY STRENGTH CONCRETE BASED ON F'c = 4000 PSI

REINFORCEMENT (ASTM A615 GRADE 60) Fy = 60,000 PSI

THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, F'c, OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 'SECTION 6.01 CONCRETE FOR STRUCTURES.'

LIVE LOAD: HS-20 (FOR NEW ELEMENTS ONLY; RETAINING WALL AND CONCRETE SLAB). THE CONTRACTOR SHALL SUBMIT FOR ENGINEER ANALYSIS AND APPROVAL ANY VEHICLE THAT EXCEEDS THE WEIGHT OF HS-20.

FUTURE PAVING ALLOWANCE: NONE

BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF TWO LIFTS. THE FIRST SHALL BE A VARIABLE THICKNESS WEDGE COURSE HMA S0.25 TRAFFIC LEVEL 2 ESTABLISHING THE PLANE GRADE AND CROSS SLOPE (1" THICK MIN.). THE SECOND LAYER SHALL BE HMA S0.5 TRAFFIC LEVEL 2 (UNIFORM 2" THICK).

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

TRAFFIC: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS "MAINTENANCE AND PROTECTION OF TRAFFIC" AND "PROSECUTION AND PROGRESS".

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY ARE BASED ON ROUGH FIELD MEASUREMENTS OR EXISTING 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 APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

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 SIGNS SHALL BE 4" BY 12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN REFLECTIVE SHEETING. EACH SIGN SHALL READ: 04746. THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THE BRIDGE SIGNS SHALL BE COVERED UNDER THE GENERAL COST OF THE PROJECT.

CONCRETE NOTES:

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR RETAINING WALL FOOTING AND STEM.

HIGH EARLY STRENGTH CONCRETE: HIGH EARLY STRENGTH CONCRETE SHALL BE USED FOR CONCRETE SLAB CLOSURE POURS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

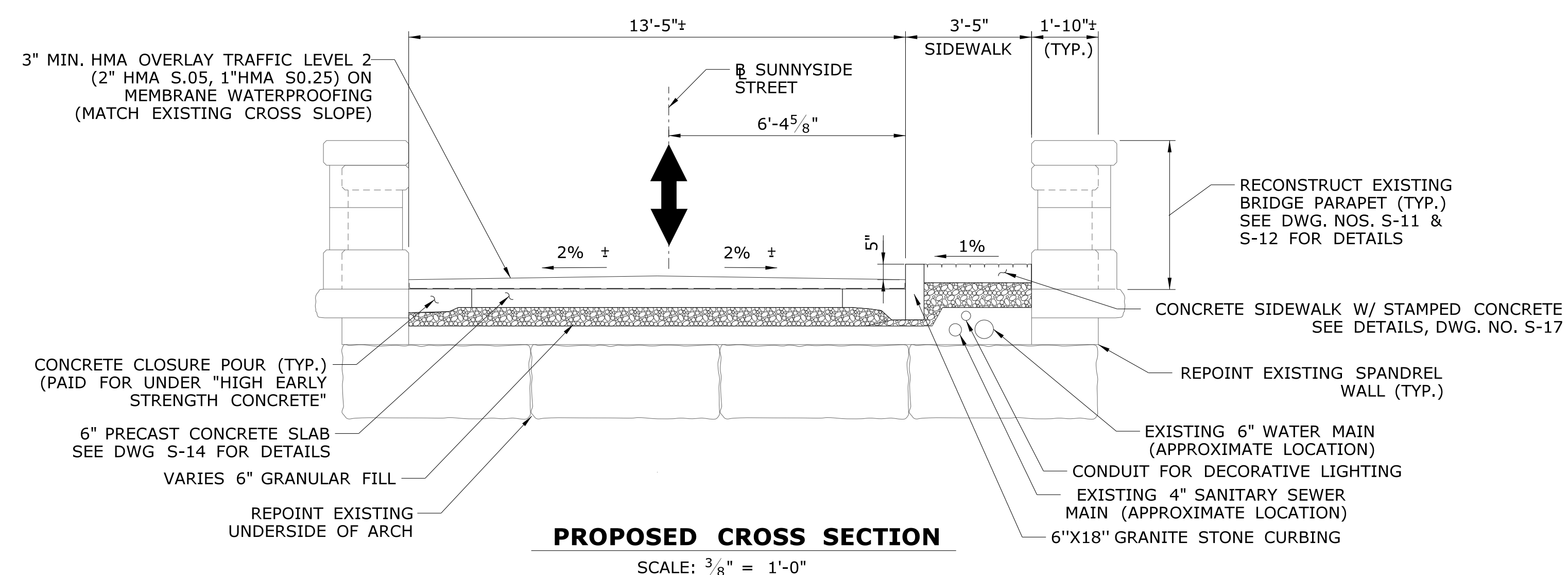
CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EPOXY COATED REINFORCING BARS: ALL CONCRETE SLAB REINFORCEMENT SHALL BE EPOXY COATED AND SHALL BE INCLUDED IN THE ITEM "PRECAST CONCRETE SLAB". ALL REINFORCING WITHIN CLOSURE POURS SHALL BE EPOXY COATED AND SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS (EPOXY COATED)". ALL RETAINING WALL REINFORCEMENT SHALL BE BLACK AND SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS".

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

UTILITIES: THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF THE CONSTRUCTION SITE. ALL WORK RELATED TO UTILITY RELOCATION, TEMPORARY UTILITY RELOCATION AND UTILITY SUPPORTS SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANIES (SEE SPECIAL PROVISIONS). LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE.



ESTIMATED QUANTITIES		
ITEM	UNIT	QTY.
SLATE SHINGLE ROOF	SY	45
EARTH EXCAVATION	CY	140
CONDITION SURVEY	LS	1
STRUCTURE EXCAVATION - EARTH (COMPLETE)	CY	58
GRANULAR FILL	CY	65
PERVIOUS STRUCTURE BACKFILL	CY	50
HMA S0.5	TON	32
HMA S0.25	TON	16
MATERIAL FOR TACK COAT	GAL	30
SAWING AND SEALING JOINTS	LF	27
RESETTING STONE MASONRY	CF	930
CLASS "A" CONCRETE	CY	36
HIGH EARLY STRENGTH CONCRETE	CY	18
PRECAST CONCRETE SLAB	CY	36
DEFORMED STEEL BARS	LB	2,715
DEFORMED STEEL BARS - EPOXY COATED	LB	1,170
DRILLING HOLES AND GROUTING ANCHOR BOLTS	EA	8
TEMPORARY DECK PLATE	LF	180
MASONRY FACING	SF	450

ESTIMATED QUANTITIES		
ITEM	UNIT	QTY.
REPOINT MORTAR JOINTS	LF	1,850
CLEAN EXISTING CATCH BASIN	EA	4
INTERMEDIATE RIPRAP	CY	10
RESET EXISTING RIPRAP	CY	110
MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	SY	280
DAMPPOOFING	SY	30
TEMPORARY EARTH RETAINING SYSTEM	SF	825
EARTH RETAINING SYSTEM LEFT IN PLACE	SF	745
NO. 6 CRUSHED STONE	CY	12
GEOTEXTILE	SY	25
GEOTEXTILE (SEPARATION - HIGH SURVIVABILITY)	SY	25
6' X 18" GRANITE STONE CURBING	LF	180
CONCRETE SIDEWALK	SF	580
CONSTRUCTION MONITORING - EXISTING BRIDGE	LS	1
REMOVAL OF EXISTING MASONRY	CY	68
PROTECTION AND SUPPORT OF EXISTING UTILITIES	LS	1

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

DESIGNER/DRAFTER:
S. LACHCIK

CHECKED BY:
R. MEARS

SCALE AS NOTED

Plotted Date: \$DATES

Filename: \$FILES

SIGNATURE/BLOCK:

Alfred Benesch & Company
90 National Drive
Glastonbury, CT

PROJECT TITLE:
**REHABILITATION OF BR. #04746
SUNNYSIDE STREET OVER
YANTIC RIVER**

CITY:
NORWICH

DRAWING TITLE:
**SECTIONS, QUANTITIES
AND NOTES**

PROJECT NO.
103-261

DRAWING NO.
S-03

SHEET NO.
4.03

Driller:	Mike Glynn	Connecticut DOT Boring Report		Hole No.:	B-101	
Inspector:	Garry Jacobsen	Town:	Norwich	Stat./Offset:		
Engineer:	Freeman Cos, LLC	Project No.:	2017-0506	Northing:	765480.73	
Start Date:	5-31-17	Route No.:	Sunnyside Street	Easting:	1171555.59	
Finish Date:	5-31-17	Bridge No.:	Sunnyside Street over Yantic River	Surface Elevation:	111.7	
Project Description: Sunnyside Street over Yantic River						
Casing Size/Type: 4-1/4 in. HSA		Sampler Type/Size: 1-3/8 in.		Core Barrel Type:		
Hammer Wt.: Fall: in.		Hammer Wt.: 140 Fall: 30in.				
Groundwater Observations:						
Depth (ft)	SAMPLES					Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	
0						
	S-1	100/3"	3	3		110
5						105
10						100
15						95
20						
Generalized Strata Description: Pavement Material Description and Notes: Asphalt Pavement (12 in.) Fill: Black c-f SAND and SILT Refusal on possible rock slab at 1.7 ft END OF BORING 1.7ft						
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		NOTES: Terminated at Auger Refusal on possible rock slab at 1.7 feet			Sheet 1 of 1	
Earth: 1.7ft Rock: 0ft						
No. of Soil Samples: 1		No. of Core Runs: 0			SM-001-M REV. 1/02	

BORING B-101

Driller:	Mike Glynn	Connecticut DOT Boring Report		Hole No.:	B-101A	
Inspector:	Garry Jacobsen	Town:	Norwich	Stat./Offset:		
Engineer:	Freeman Cos, LLC	Project No.:	2017-0506	Northing:	765478.54	
Start Date:	5-31-17	Route No.:	Sunnyside Street	Easting:	1171563.65	
Finish Date:	5-31-17	Bridge No.:	Sunnyside Street over Yantic River	Surface Elevation:	111.7	
Project Description: Sunnyside Street over Yantic River						
Casing Size/Type: 4-1/4 in. HSA		Sampler Type/Size: 1-3/8 in.		Core Barrel Type:		
Hammer Wt.: Fall: in.		Hammer Wt.: 140 Fall: 30in.				
Groundwater Observations: @14 after 0 hours						
Depth (ft)	SAMPLES					Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	
0						
	S-1	23 27 29 29	24	12		110
	S-2	34 29 30 30	24	16		
5						105
	S-3	17 28 30 19	24	18		
	S-4	23 20 17 17	24	18		
10						100
	S-5	15 12 7 7	24	18		
	S-6	4 6 11 11	24	18		
15						95
	S-7	12 100/5"	11	6		
20						
Generalized Strata Description: Pavement Material Description and Notes: Asphalt Pavement (12 in.) Fill: 6-inch cobble below pavement Brown to gray c-f SAND and c-f GRAVEL, trace silt Brown to gray c-f GRAVEL and c-f SAND, little silt. Six-inch thick dark gray layer with little silt. Brown to gray c-f GRAVEL, some c-f sand, trace silt S4 (7 to 8 ft): Brown to gray c-f SAND and c-f GRAVEL, trace silt S4A (8 to 9 ft): Gray to brown f SAND, some silt, with gray layers that include trace roots Gray to brown f SAND, little silt, trace gravel, 4 to 8 inch layers Gray to brown f SAND, some silt, 4 to 8 inch layers Gray c-f GRAVEL and c-f SAND, trace silt. Augered very hard through cobbles and boulders from 14 to 17 feet. END OF BORING 17ft						
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		NOTES: Terminated at Auger Refusal at 17 feet			Sheet 1 of 1	
Earth: 17ft Rock: 0ft						
No. of Soil Samples: 7		No. of Core Runs: 0			SM-001-M REV. 1/02	

BORING B-101A

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	DESIGNER/DRAFTER: S. LACHCIK		SIGNATURE/BLOCK:  Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH	PROJECT NO. 103-261
				CHECKED BY: R. MEARS	DRAWING NO. S-04					
				SCALE AS NOTED	SHEET NO. 4.04					

Driller:	Mike Glynn	Connecticut DOT Boring Report		Hole No.:	B-101B	
Inspector:	Garry Jacobsen	Town:	Norwich	Stat./Offset:		
Engineer:	Freeman Cos, LLC	Project No.:	2017-0506	Northing:	765477.12	
Start Date:	5-31-17	Route No.:	Sunnyside Street	Easting:	1171551.7	
Finish Date:	5-31-17	Bridge No.:	Sunnyside Street over Yantic River	Surface Elevation:	111.7	
Project Description: Sunnyside Street over Yantic River						
Casing Size/Type: 4-1/4 in. HSA		Sampler Type/Size: 1-3/8 in.		Core Barrel Type:		
Hammer Wt.: Fall: in.		Hammer Wt.: 140 Fall: 30in.				
Groundwater Observations:						
Depth (ft)	SAMPLES					Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	
0						
						110
5						105
10						100
15						95
20						
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		NOTES: Terminated at Auger Refusal at 16 feet			Sheet 1 of 1	
Earth: 16ft	Rock: 0ft					
No. of Soil Samples: 0	No. of Core Runs: 0				SM-001-M REV. 1/02	

BORING B-101B

Driller:	Mike Glynn	Connecticut DOT Boring Report		Hole No.:	B-101C	
Inspector:	Garry Jacobsen	Town:	Norwich	Stat./Offset:		
Engineer:	Freeman Cos, LLC	Project No.:	2017-0506	Northing:	765478.95	
Start Date:	5-31-17	Route No.:	Sunnyside Street	Easting:	1171558.21	
Finish Date:	5-31-17	Bridge No.:	Sunnyside Street over Yantic River	Surface Elevation:	111.7	
Project Description: Sunnyside Street over Yantic River						
Casing Size/Type:		Sampler Type/Size:		Core Barrel Type:		
Hammer Wt.: Fall:		Hammer Wt.: Fall:				
Groundwater Observations:						
Depth (ft)	SAMPLES					Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	
0						
						110
5						105
10						100
15						95
20						
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		NOTES: Terminated at Auger Refusal at 7 feet			Sheet 1 of 1	
Earth: 7ft	Rock: 0ft					
No. of Soil Samples: 0	No. of Core Runs: 0				SM-001-M REV. 1/02	

BORING B-101C


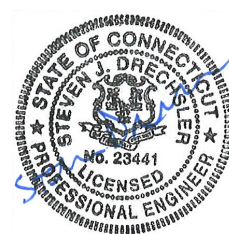
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	DESIGNER/DRAFTER: S. LACHCIK		SIGNATURE/BLOCK:  Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH	PROJECT NO. 103-261
				CHECKED BY: R. MEARS	DRAWING NO. S-05					
				SCALE AS NOTED	SHEET NO. 4.05					

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT PURCELL ASSOCIATES		PROJECT NAME SUNNYSIDE STREET BRIDGE OVER YANTIC RIVER			
						LOCATION NORWICH, CT			
TYPE	AUGER	CASING	SAMPLER	CORE BAR	OFFSET	SURFACE ELEV.		HOLE NO.	B-1
SIZE I.D.	3.75"		SS			LINE & STA.		GROUND WATER OBSERVATIONS	
HAMMER WT.			140lbs			N. COORDINATE		AT 8.0 FT. AFTER 0 HOURS START DATE 8/22/12	
HAMMER FALL			30"			E. COORDINATE		AT FT. AFTER HOURS FINISH DATE 8/22/12	
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS	ELEV.			
	NO.	BLOWS/6"	DEPTH						
0					TOPSOIL	0.5			
					GREY/BR.FINE-MED.SAND, SOME SILT, TRACE ROOTS - FILL				
5	1	1-2-2	5.00'-6.50'						
					GREY/BR.FINE-CRS.SAND, GRAVEL AND COBBLES	7.5			
					GREY/BR.FINE-CRS.SAND, SOME GRAVEL, LITTLE SILT	9.0			
10	2	8-14-25	10.00'-11.50'						
15	3	10-18-20	15.00'-16.50'						
20	4	6-6-12	20.00'-21.50'						
25	5	5-15-26	25.00'-26.50'						
30	6	9-12-15	30.00'-31.50'						
35									
LEGEND: COL. A:RECOVERY "						DRILLER: J.BREWER			
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON						INSPECTOR:			
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%						SHEET 1 OF 2 HOLE NO. B-1			

BORING B1-1

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT PURCELL ASSOCIATES		PROJECT NAME SUNNYSIDE STREET BRIDGE OVER YANTIC RIVER			
						LOCATION NORWICH, CT			
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS	ELEV.			
	NO.	BLOWS/6"	DEPTH						
	7	18-20-21	35.00'-36.50'						
40	8	11-22-23	40.00'-41.50'						
45									
50	9	11-15-25	50.00'-51.50'						
55									
60	10	28-60	60.00'-61.00'						
					BOTTOM OF BORING @ 61.0' (AUGER REFUSAL)	61.0			
65									
70									
75									
LEGEND: COL. A:RECOVERY "						DRILLER: J.BREWER			
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON						INSPECTOR:			
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%						SHEET 2 OF 2 HOLE NO. B-1			

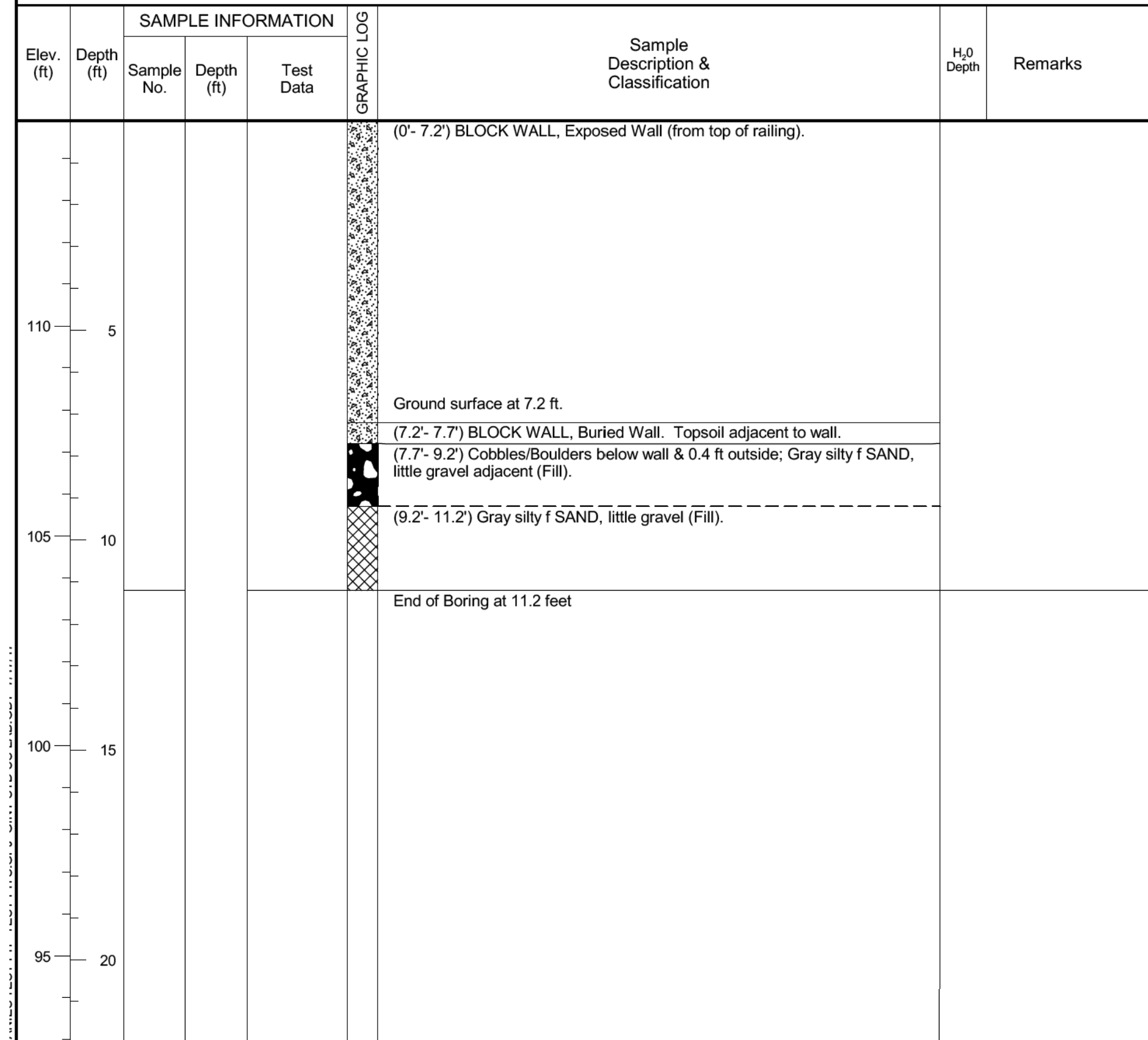
BORING B1-CONT.


REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	DESIGNER/DRAFTER: S. LACHCIK		SIGNATURE/ BLOCK:  Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH	PROJECT NO. 103-261
					CHECKED BY: R. MEARS					DRAWING NO. S-06
					SCALE AS NOTED					SHEET NO. 4.06

Exploration Location		TEST PIT	
NORTHING: 765,458.07	EASTING: 1,171,564.34	STATION: _____	OFFSET: _____
HORIZONTAL DATUM: _____		STATION CENTERLINE: _____	
VERTICAL DATUM: _____		ESTIMATED GROUND SURFACE ELEV. (FT): 114.9	
LOCATION: _____			

Test Pit Information	
DATE START / END: 6/1/2017 - 6/1/2017	
CONTRACTOR: Seaboard Drilling, Inc.	
EQUIPMENT: Track Mounted Excavator	
TOTAL DEPTH (FT): 11.2	
LOGGED BY (Person): G. Jacobsen	
WATER LEVEL DEPTHS (ft): dry	
GENERAL NOTES:	

ABBREVIATIONS: PID = Photoionization Detector NA, NM = Not Applicable, Not Measured
 Q_u = Pocket Penetrometer Strength
 S_v = Pocket Torvane Shear Strength
 F_v = Field Vane Shear Strength



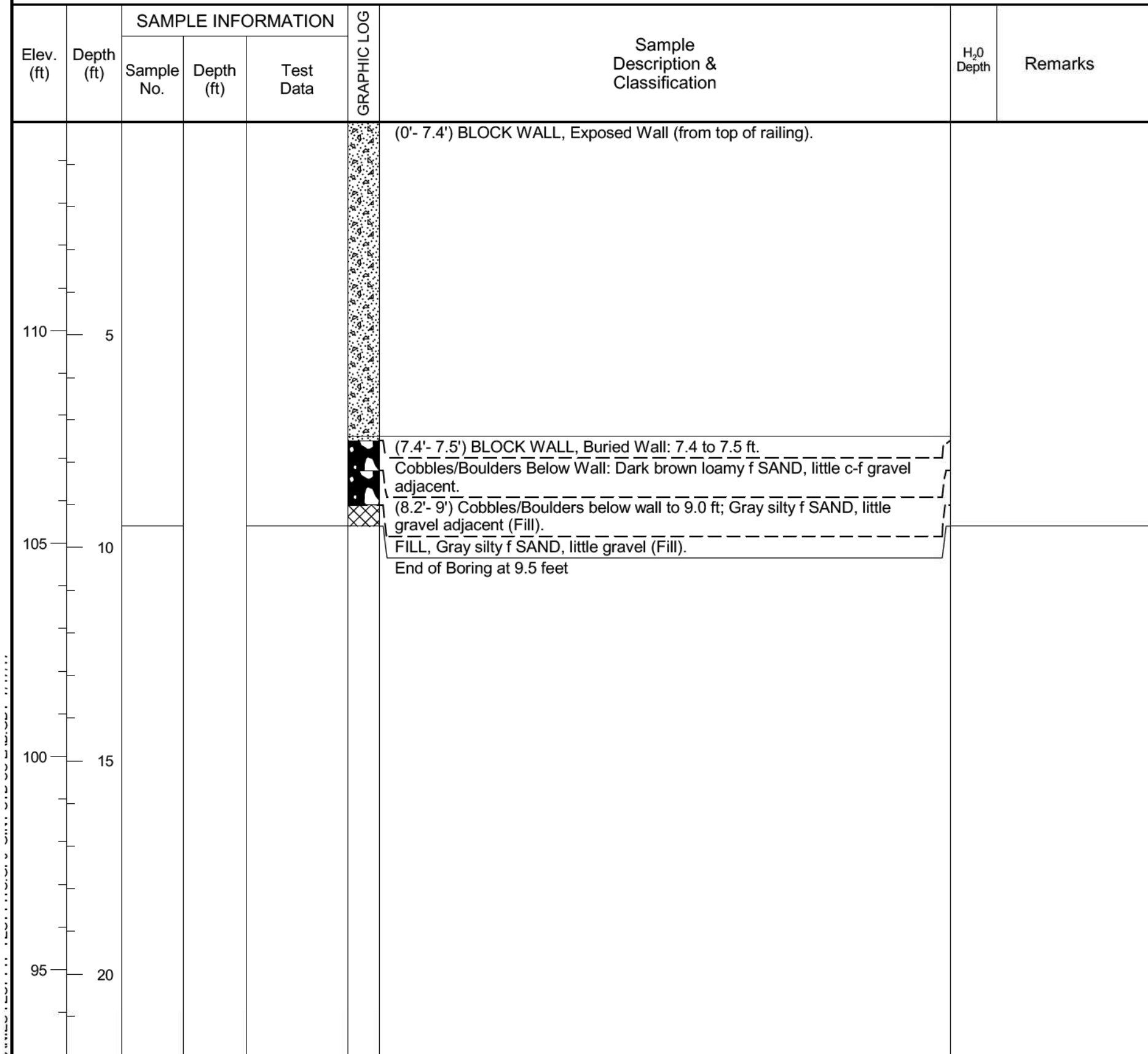
<small>Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.</small>	LOGGED BY (Consultant): Freeman Companies, LLC PROJECT NAME: Sunnyside Street over Yantic River CITY/STATE: Norwich, CT PROJECT NUMBER: 2017-0506	 Freeman Companies, LLC 36 John Street Hartford, CT 06102 (860) 251-9550 www.freemancos.com
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TEST PIT TP-101

Exploration Location		TEST PIT	
NORTHING: 765,463.33	EASTING: 1,171,570.88	STATION: _____	OFFSET: _____
HORIZONTAL DATUM: _____		STATION CENTERLINE: _____	
VERTICAL DATUM: _____		ESTIMATED GROUND SURFACE ELEV. (FT): 114.9	
LOCATION: _____			

Test Pit Information	
DATE START / END: 6/1/2017 - 6/1/2017	
CONTRACTOR: Seaboard Drilling, Inc.	
EQUIPMENT: Track Mounted Excavator	
TOTAL DEPTH (FT): 9.5	
LOGGED BY (Person): G. Jacobsen	
WATER LEVEL DEPTHS (ft): dry	
GENERAL NOTES:	

ABBREVIATIONS: PID = Photoionization Detector NA, NM = Not Applicable, Not Measured
 Q_u = Pocket Penetrometer Strength
 S_v = Pocket Torvane Shear Strength
 F_v = Field Vane Shear Strength



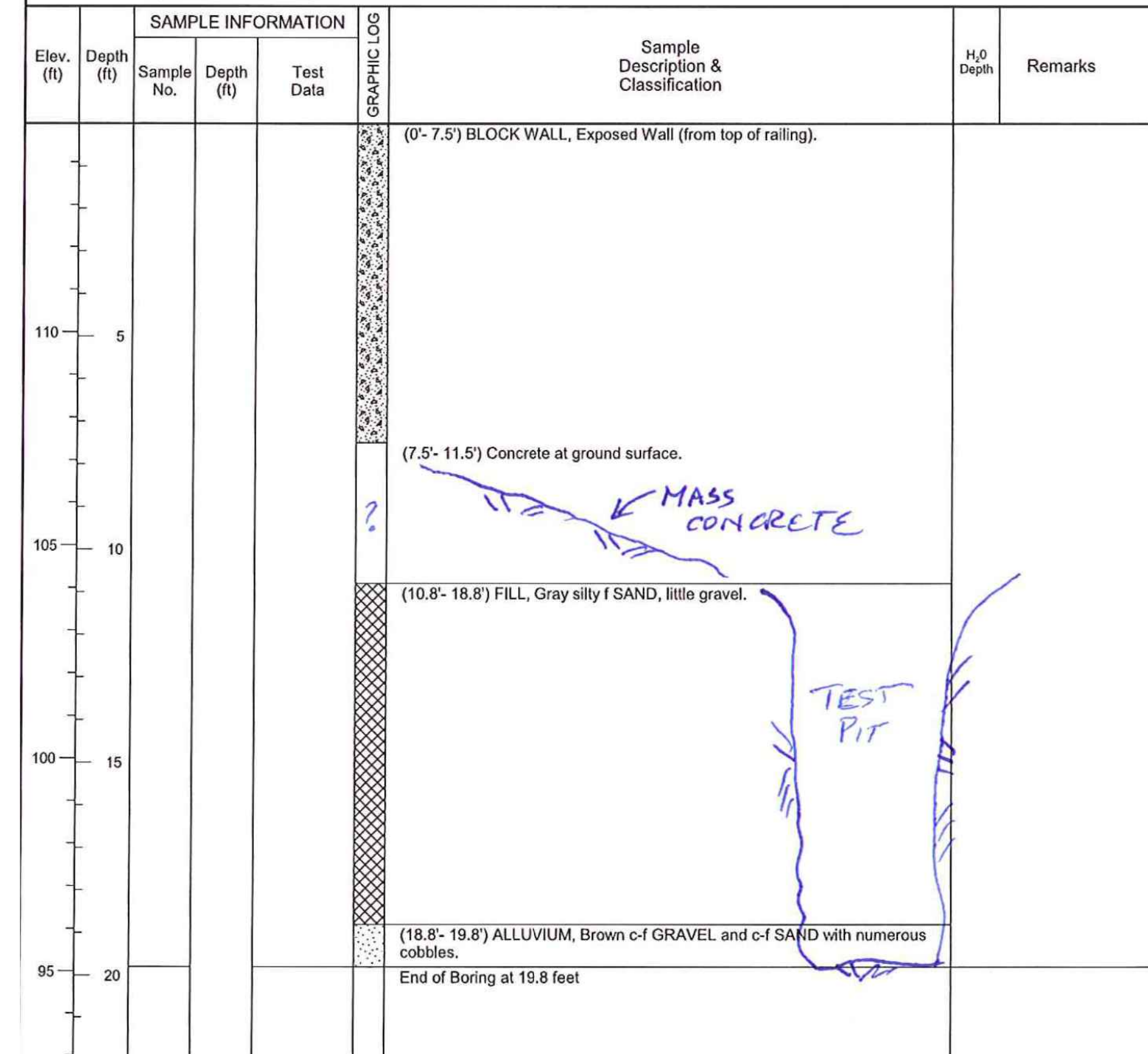
<small>Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.</small>	LOGGED BY (Consultant): Freeman Companies, LLC PROJECT NAME: Sunnyside Street over Yantic River CITY/STATE: Norwich, CT PROJECT NUMBER: 2017-0506	 Freeman Companies, LLC 36 John Street Hartford, CT 06102 (860) 251-9550 www.freemancos.com
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TEST PIT TP-102

Exploration Location		TEST PIT	
NORTHING: 765,503.3	EASTING: 1,171,564.63	STATION: _____	OFFSET: _____
HORIZONTAL DATUM: _____		STATION CENTERLINE: _____	
VERTICAL DATUM: _____		ESTIMATED GROUND SURFACE ELEV. (FT): 114.9	
LOCATION: _____			

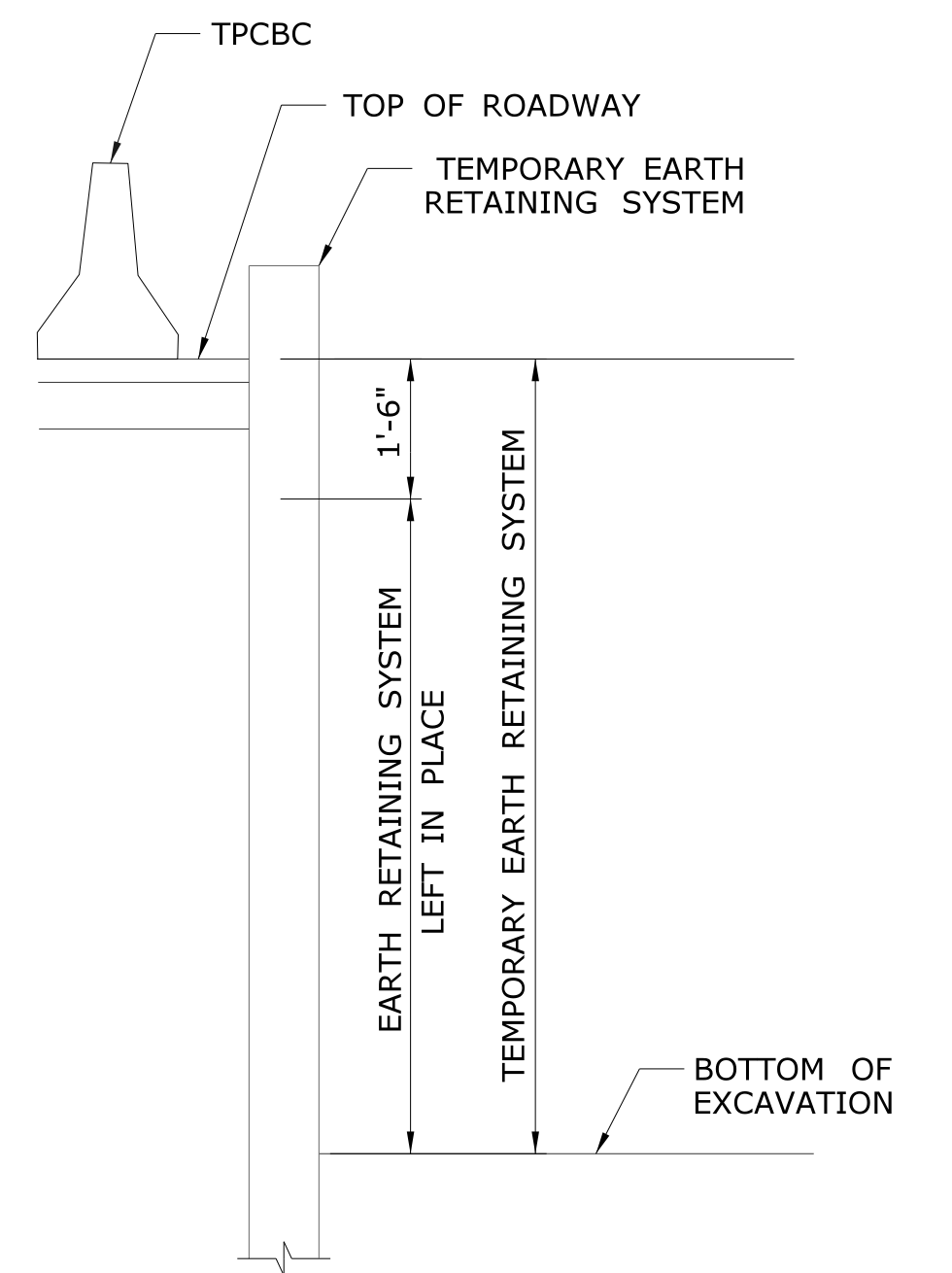
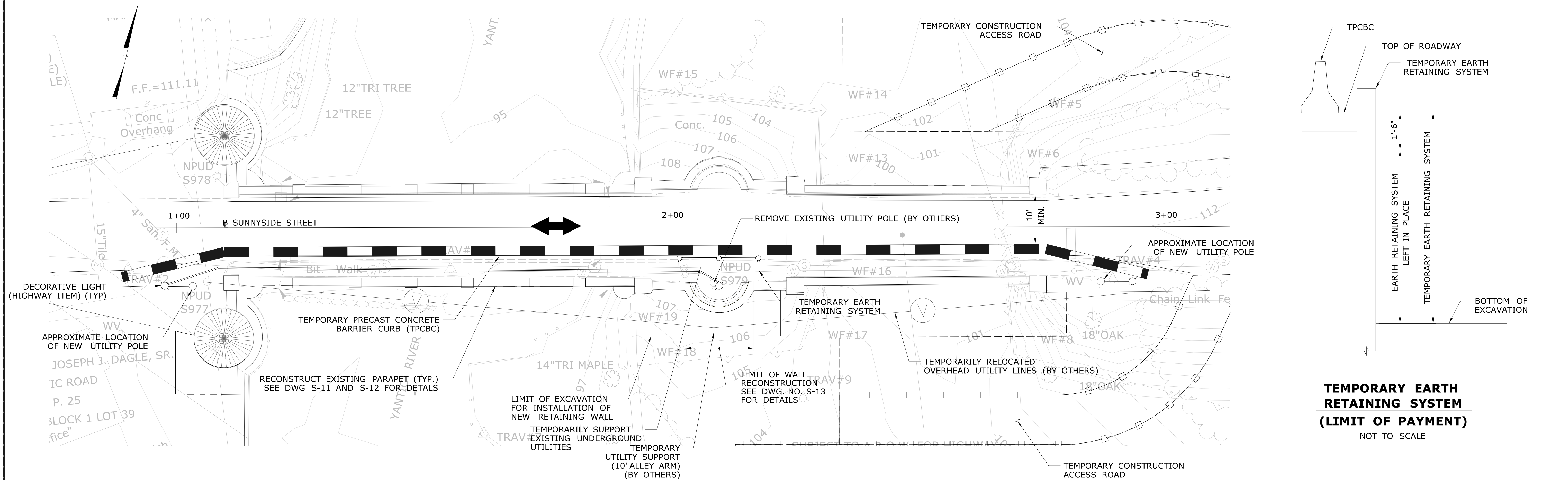
Test Pit Information	
DATE START / END: 6/1/2017 - 6/1/2017	
CONTRACTOR: Seaboard Drilling, Inc.	
EQUIPMENT: Track Mounted Excavator	
TOTAL DEPTH (FT): 19.8	
LOGGED BY (Person): G. Jacobsen	
WATER LEVEL DEPTHS (ft): dry	
GENERAL NOTES:	

ABBREVIATIONS: PID = Photoionization Detector NA, NM = Not Applicable, Not Measured
 Q_u = Pocket Penetrometer Strength
 S_v = Pocket Torvane Shear Strength
 F_v = Field Vane Shear Strength



<small>Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.</small>	LOGGED BY (Consultant): Freeman Companies, LLC PROJECT NAME: Sunnyside Street over Yantic River CITY/STATE: Norwich, CT PROJECT NUMBER: 2017-0506	 Freeman Companies, LLC 36 John Street Hartford, CT 06102 (860) 251-9550 www.freemancos.com
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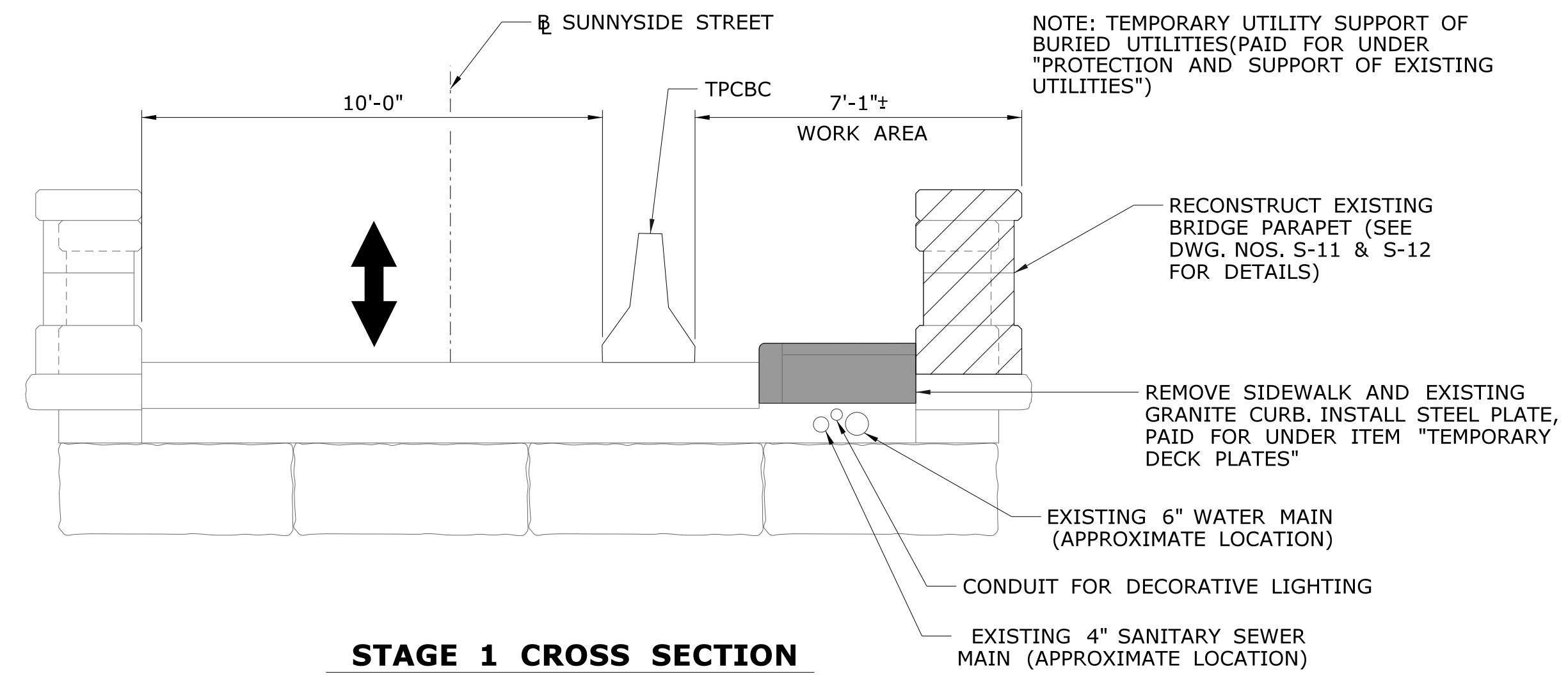
TEST PIT TP-103



STAGE 1 PLAN

SCALE: 1" = 10'

NOTE: TEMPORARY UTILITY SUPPORT OF BURIED UTILITIES (PAID FOR UNDER "PROTECTION AND SUPPORT OF EXISTING UTILITIES")



STAGE 1 CROSS SECTION

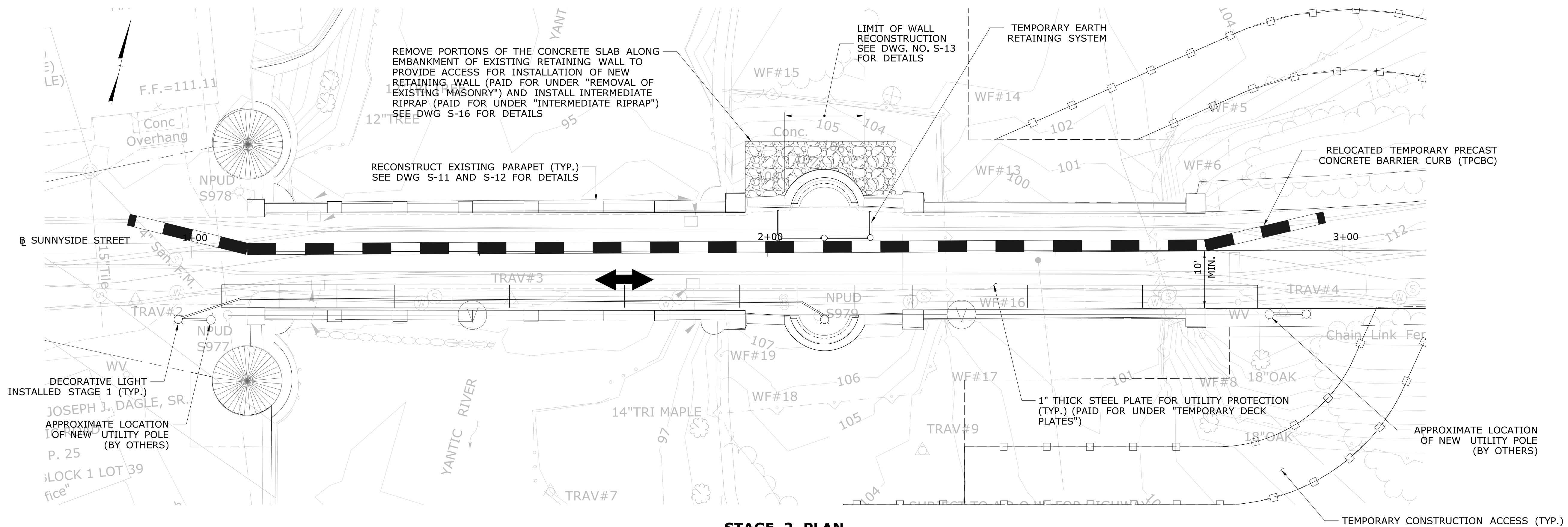
SCALE: 3/8" = 1'-0"

- TO BE REMOVED AND RECONSTRUCTED DURING THIS STAGE
- TO BE REMOVED DURING THIS STAGE

SUGGESTED CONSTRUCTION SEQUENCE

- PRE STAGE CONSTRUCTION
1. INSTALL 10' ALLEY ARM ON THE POLE LOCATED NEAR THE SOUTH RETAINING WALL AND SHIFT OVERHEAD LINES SOUTH AWAY FROM THE BRIDGE (BY OTHERS).
 2. INSTALL NEW UTILITY POLES AT EACH APPROACH (BY OTHERS).
- STAGE 1 (SOUTH SIDE)
1. REMOVE EXISTING SIDEWALK GRANITE CURB AND LOCATE EXISTING UNDERGROUND UTILITIES (4" FORCED SEWER AND 6" WATER MAIN) ALONG RETAINING WALL.
 2. INSTALL TEMPORARY EARTH RETAINING SYSTEM DURING ROAD CLOSURE.
 3. PLACE TEMPORARY PRECAST CONCRETE BARRIER CURB (TPCBC).
 4. RELOCATE EXISTING OVERHEAD UTILITIES ONTO NEW POLES AND REMOVE THE EXISTING UTILITY POLE AT THE RETAINING WALL (BY OTHERS).
 5. INSTALL NEW DECORATIVE LIGHTS AND FOUNDATIONS IN BRIDGE APPROACHES.
 6. REMOVE EXISTING RETAINING WALL AND TEMPORARILY SUPPORT EXISTING UNDERGROUND UTILITIES (SEWER & WATER MAINS).
 7. RECONSTRUCT THE WALL, INSTALL DECORATIVE LIGHT FOUNDATION ON BRIDGE, CONDUITS FOR DECORATIVE LIGHTING ON THE BRIDGE, AND RESTORE EMBANKMENT AT FRONT OF THE WALL.
 8. BACKFILL AND PARTIALLY REMOVE TEMPORARY EARTH RETAINING SYSTEM (SEE REMOVAL LIMITS, THIS SHEET).
 9. INSTALL DECORATIVE LIGHT POLE ON THE BRIDGE.
 10. RECONSTRUCT EXISTING PARAPETS.
 11. PLACE STEEL PLATES OVER THE EXISTING BURIED UTILITIES AND NEW LIGHTING CONDUITS WITHIN THE LIMITS OF SIDEWALK REMOVAL.
- NOTES:
1. FOR ADDITIONAL INFORMATION PERTAINING TO MAINTENANCE AND PROTECTION OF TRAFFIC AND LIMITS OF CONSTRUCTION ACCESS ROADS, REFER TO M&PT DRAWINGS ON HIGHWAY SUBSET.
 2. ALL WORK IN SPAN NO. 1, OVER THE YANTIC RIVER, SHALL OCCUR ABOVE THE ORDINARY HIGH WATER ELEVATION. THE CONTRACTOR SHALL UTILIZE A TEMPORARY DEBRIS SHIELD / MOVABLE PLATFORM TO ACCESS THE SPANDREL WALLS AND UNDERSIDE OF THE ARCH IN SPAN NO. 1.

		THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: S. LACHCIK CHECKED BY: R. MEARS SCALE AS NOTED		SIGNATURE/ BLOCK: Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH DRAWING TITLE: STAGE CONSTRUCTION-1	PROJECT NO. 103-261 DRAWING NO. S-08 SHEET NO. 4.08	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	Filename: \$FILEAS				

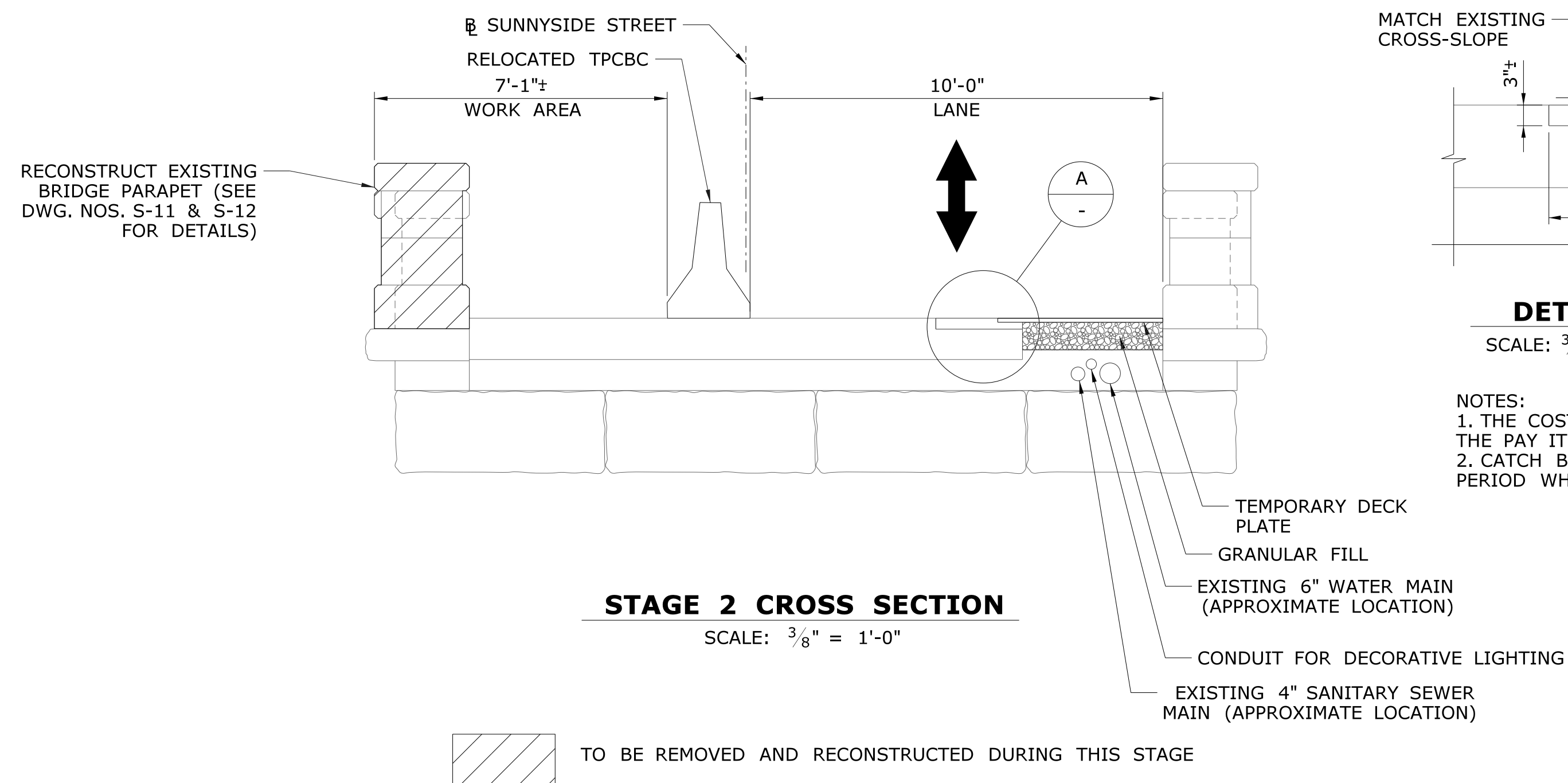


STAGE 2 PLAN
SCALE: 1" = 10'

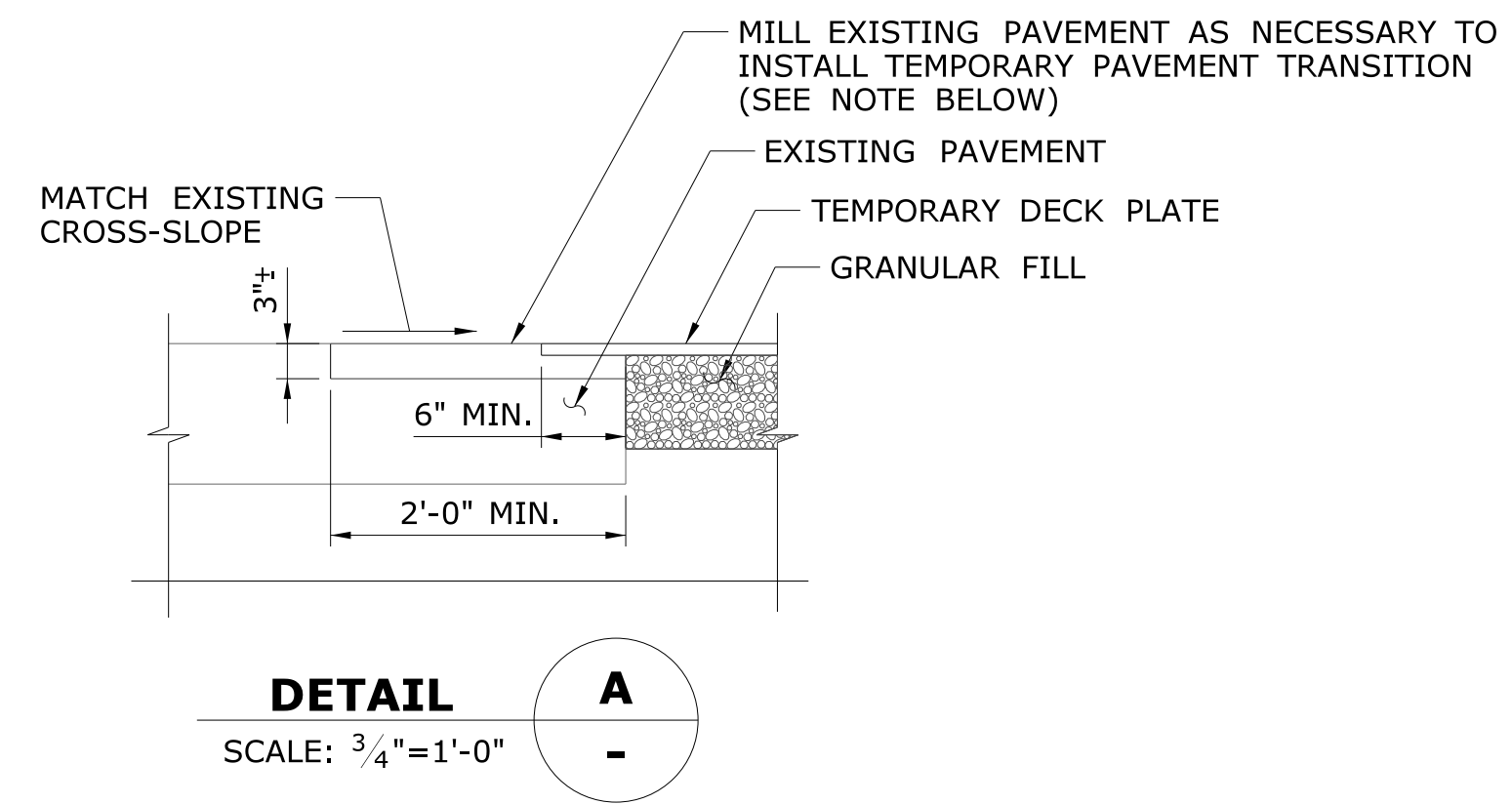
SUGGESTED CONSTRUCTION SEQUENCE

- STAGE 2 (NORTH SIDE)
1. RELOCATE TEMPORARY PRECAST CONCRETE BARRIER CURB (TPCBC) FOR STAGE 2.
 2. INSTALL TEMPORARY EARTH RETAINING SYSTEM.
 3. REMOVE EXISTING CONCRETE SLOPE PROTECTION ON NORTHERN EMBANKMENT, TO THE LIMITS SHOWN.
 4. REMOVE EXISTING RETAINING WALL.
 5. RECONSTRUCT THE WALL AND RESTORE SLOPE AT FRONT OF WALL.
 6. BACKFILL AND PARTIALLY REMOVE TEMPORARY EARTH RETAINING SYSTEM (SEE REMOVAL LIMITS S-08).
 7. RECONSTRUCT EXISTING PARAPETS.
 8. INSTALL GRANITE CURB AND CONCRETE AT SITTING AREA.

NOTE:
1. FOR ADDITIONAL INFORMATION PERTAINING TO MAINTENANCE AND PROTECTION OF TRAFFIC AND LIMITS OF CONSTRUCTION ACCESS ROADS, REFER TO M&PT DRAWINGS IN HIGHWAY SUBSET.
2. ALL WORK IN SPAN NO. 1, OVER THE YANTIC RIVER, SHALL OCCUR ABOVE THE ORDINARY HIGH WATER ELEVATION. THE CONTRACTOR SHALL UTILIZE A TEMPORARY DEBRIS SHIELD / MOVABLE PLATFORM TO ACCESS THE SPANDREL WALLS AND UNDERSIDE OF THE ARCH IN SPAN NO. 1.


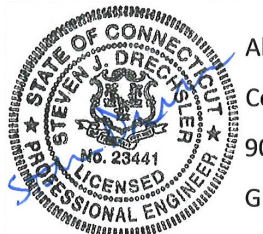


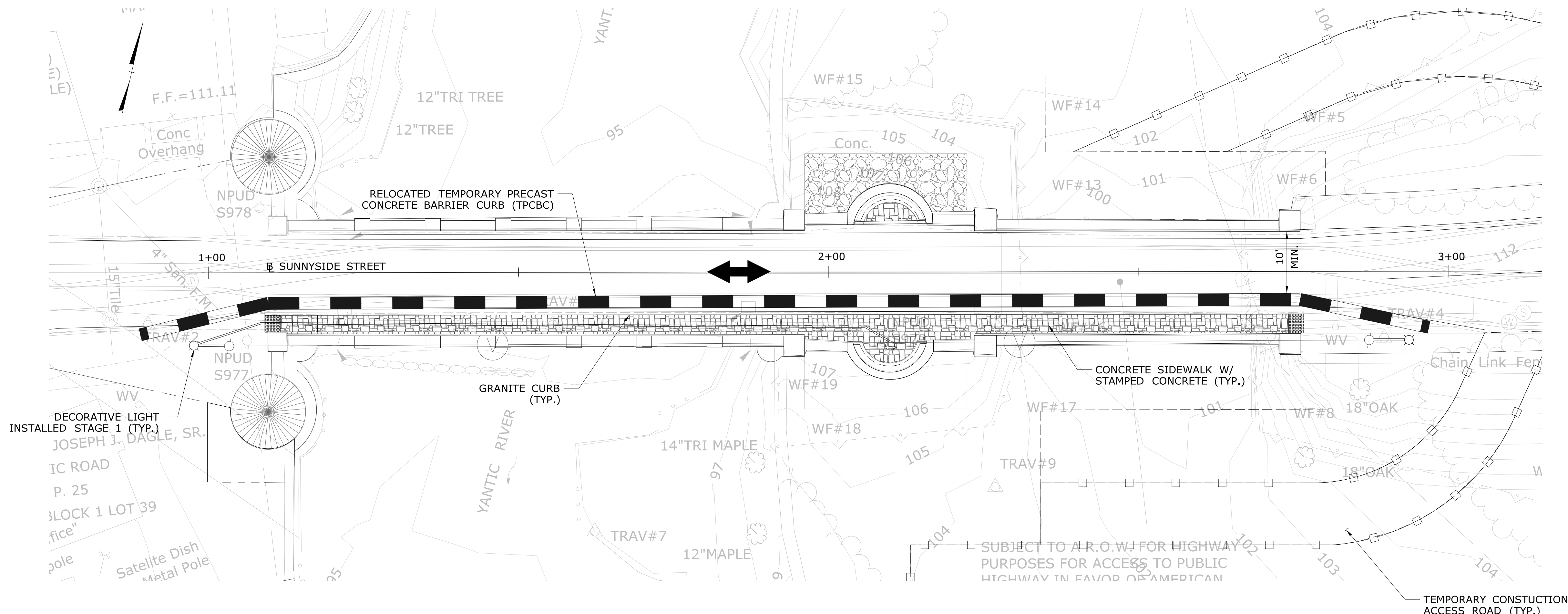
STAGE 2 CROSS SECTION
SCALE: 3/8" = 1'-0"



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

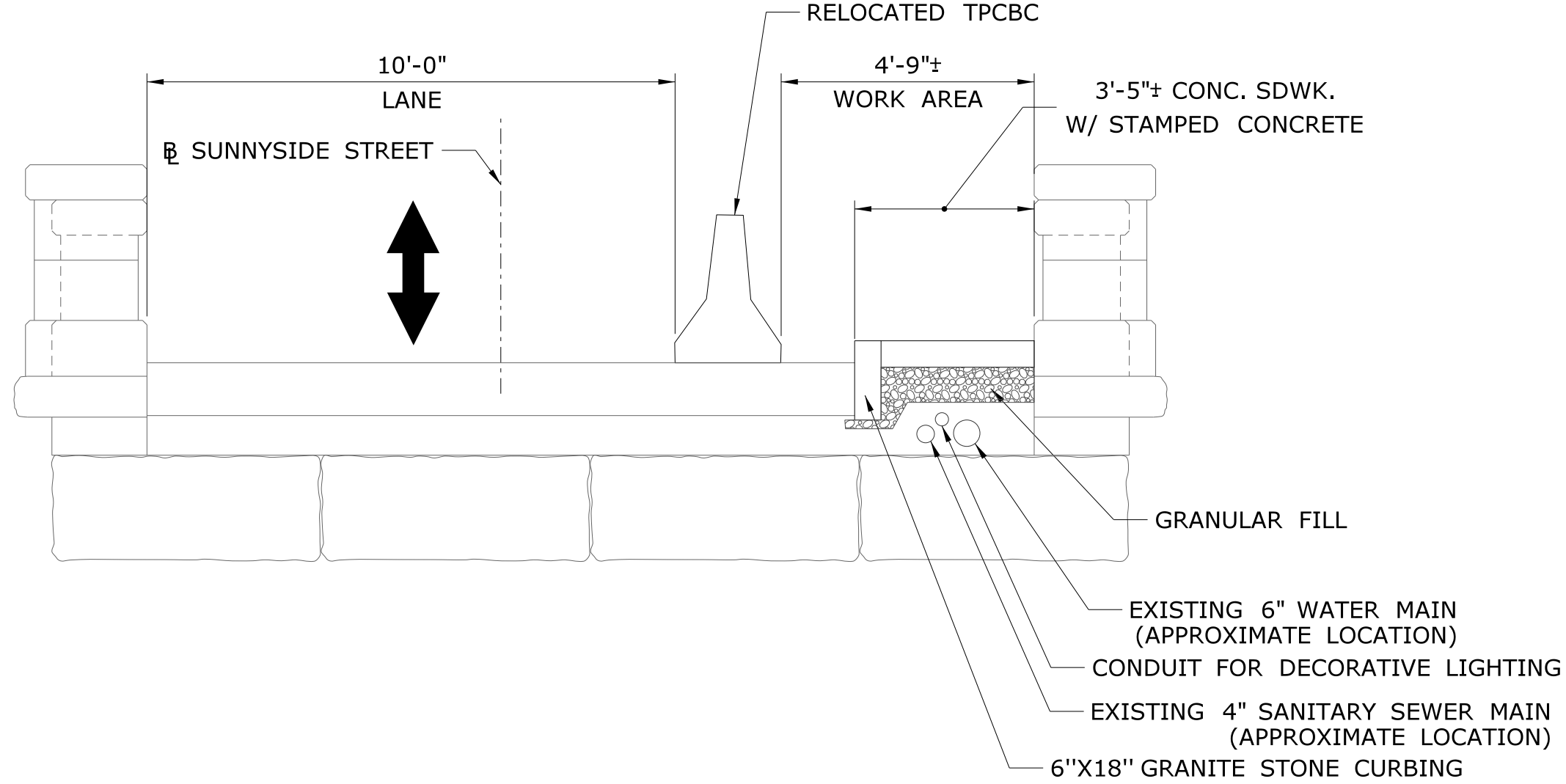
- NOTES:
1. THE COST OF TEMPORARY TRANSITION PAVEMENT SHALL BE INCLUDED UNDER THE PAY ITEM "TEMPORARY DECK PLATE". SEE SPECIAL PROVISIONS.
2. CATCH BASINS SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION PERIOD WHEN TEMPORARY DECK PLATES ARE INSTALLED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	DESIGNER/DRAFTER: S. LACHCIK CHECKED BY: R. MEARS SCALE AS NOTED	 Alfred Benesch & Company 90 National Drive Glastonbury, CT	SIGNATURE/BLOCK:  Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH DRAWING TITLE: STAGE CONSTRUCTION-2	PROJECT NO. 103-261 DRAWING NO. S-09 SHEET NO. 4.09
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STAGE 3 PLAN

SCALE: 1" = 10'



STAGE 3 CROSS SECTION

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

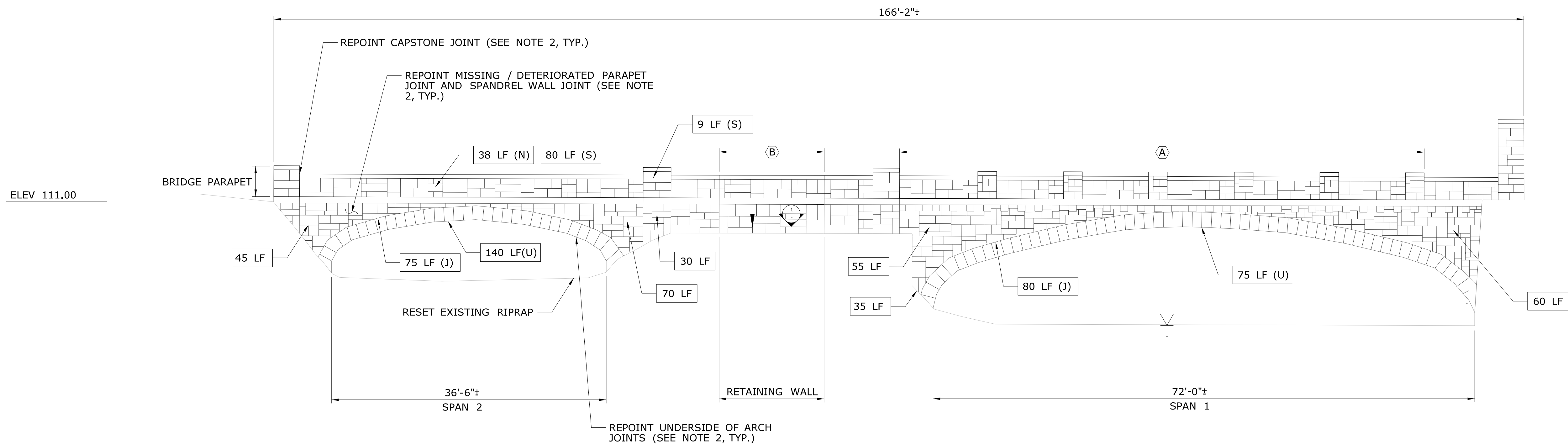
SUGGESTED CONSTRUCTION SEQUENCE

- STAGE 3**
1. REMOVE TEMP. STEEL PLATES AND RELOCATE TPCBC ALONG SOUTH PARAPET.
 2. INSTALL GRANITE CURB AND CONCRETE SIDEWALK WITH STAMPED CONCRETE.
 3. REMOVE TPCBC.

- POST STAGE CONSTRUCTION**
1. REMOVE EXISTING PAVEMENT PER LIMITS SHOWN ON DWG HWY-04. INSTALL WEDGES TO FORM TRANSITION PER DETAIL SHOWN IN HIGHWAY SUBSET.
 2. INSTALL GRANULAR FILL WITHIN THE LIMITS OF PRECAST CONCRETE SLAB AS SHOWN. ON DWG S-03 AND COMPACT AS REQUIRED.
 3. INSTALL PRECAST CONCRETE SLAB.
 4. INSTALL CLOSURE POURS BETWEEN SLAB PANELS AND BETWEEN PARAPETS/SIDEWALK CURB AND AROUND CATCH BASINS.
 5. INSTALL WATERPROOFING MEMBRANE.
 6. INSTALL HMA OVERLAY TRAFFIC LEVEL 2 IN THE LIFTS PER DWG S-03.

- NOTES:**
1. FOR ADDITIONAL INFORMATION PERTAINING TO MAINTENANCE AND PROTECTION OF TRAFFIC AND LIMITS OF CONSTRUCTION ACCESS ROADS, REFER TO M&PT DRAWINGS ON HIGHWAY SUBSET.
 2. ALL WORK IN SPAN NO. 1, OVER THE YANTIC RIVER, SHALL OCCUR ABOVE THE ORDINARY HIGH WATER ELEVATION. THE CONTRACTOR SHALL UTILIZE A TEMPORARY DEBRIS SHIELD / MOVABLE PLATFORM TO ACCESS THE SPANDREL WALLS AND UNDERSIDE OF THE ARCH IN SPAN NO. 1.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	DESIGNER/DRAFTER: S. LACHCIK CHECKED BY: R. MEARS SCALE AS NOTED	 Alfred Benesch & Company 90 National Drive Glastonbury, CT	SIGNATURE/BLOCK:	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH DRAWING TITLE: STAGE CONSTRUCTION-3	PROJECT NO. 103-261 DRAWING NO. S-10 SHEET NO. 4.10
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NORTH ELEVATION

SCALE: 1/8" = 1'

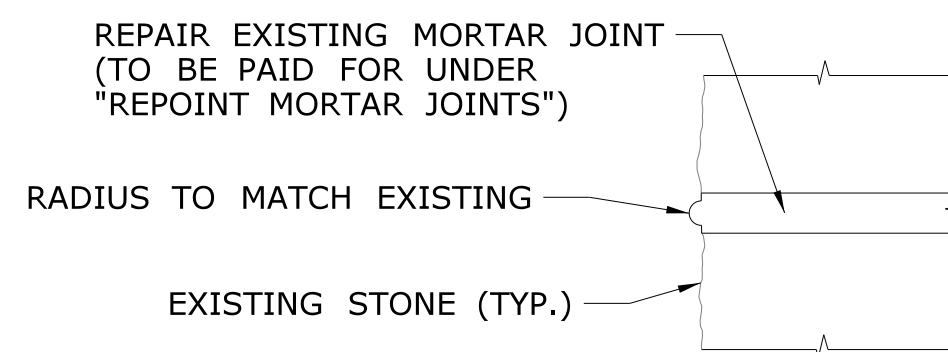
LEGEND

- (A) RECONSTRUCT PARAPET SECTION, PAID FOR UNDER "RESETTING STONE MASONRY"
- (B) REMOVAL OF RETAINING WALL IS PAID FOR UNDER "REMOVAL OF EXISTING MASONRY". EXCAVATION FOR REMOVAL OF THE RETAINING WALL IS PAID FOR UNDER "STRUCTURE EXCAVATION - EARTH (COMPLETE)". THE CONCRETE FOR RECONSTRUCTION OF THE RETAINING WALL IS PAID FOR UNDER "CLASS A CONCRETE" AND THE REINFORCING IS PAID FOR UNDER "DEFORMED STEEL BARS". THE STONE VENEER FACING FOR THE RETAINING WALL IS PAID FOR UNDER "MASONRY FACING".

U - UNDERSIDE OF BRIDGE
 J - SPANDREL ARCH JOINT
 L.F. - LENGTH OF "REPOINTED MASONRY"

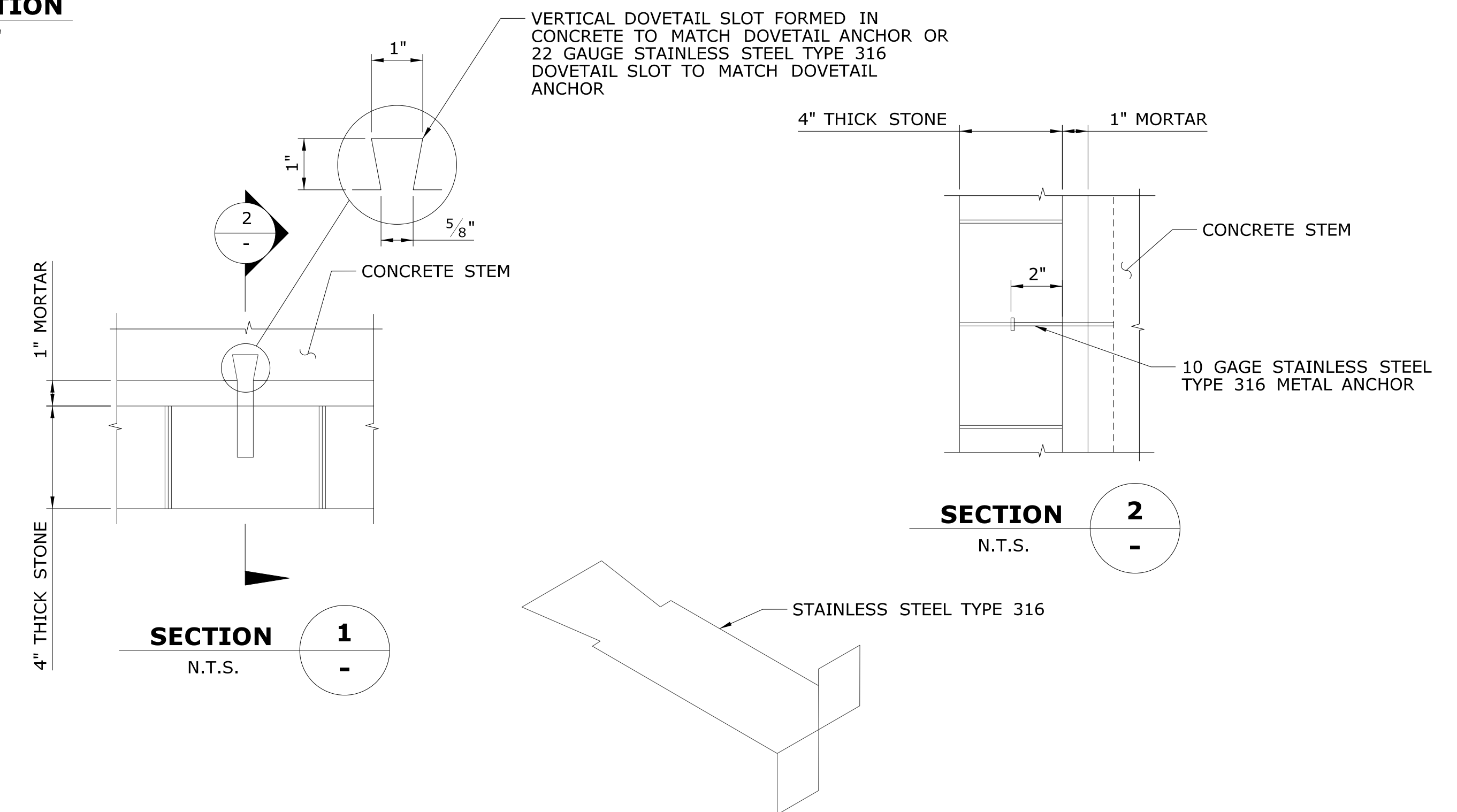
NOTES:

1. FOR TYPICAL JOINT REPAIR DETAILS, SEE "BEADED MORTAR JOINT DETAIL" THIS SHEET.
2. REPOINT CAPSTONE JOINT, REPOINT MISSING/DETERIORATED SPANDREL WALL JOINTS, AND REPOINT UNDERSIDE OF ARCH JOINTS PAID FOR UNDER "REPOINT MORTAR JOINTS."
3. ALL WORK IN SPAN NO. 1, OVER THE YANTIC RIVER, SHALL OCCUR ABOVE THE ORDINARY HIGH WATER ELEVATION. THE CONTRACTOR SHALL UTILIZE A TEMPORARY MOVABLE DEBRIS SHIELD / PLATFORM TO ACCESS THE SPANDREL WALLS AND UNDERSIDE OF THE ARCH.
4. SEE SPECIAL PROVISION FOR DEFINITION OF PAY LIMITS FOR "RESETTING STONE MASONRY".



BEADED MORTAR JOINT DETAIL

NOT TO SCALE



DOVETAIL ANCHOR

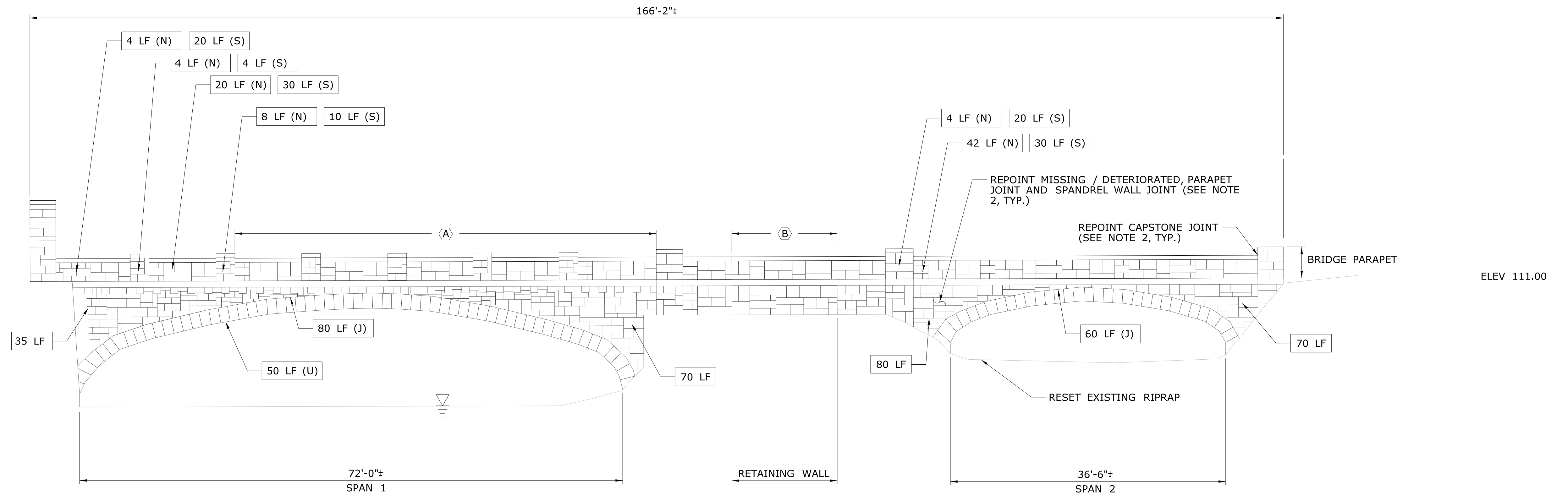
NOT TO SCALE

TYPICAL MASONRY FACING ANCHORAGE DETAILS

NOT TO SCALE

NOTE: THE COST OF THE DOVETAIL ANCHOR SHALL BE INCLUDED IN THE UNIT PRICE FOR "MASONRY FACING".

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	DESIGNER/DRAFTER: S. LACHCIK		SIGNATURE/ BLOCK:	Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE:	CITY:	PROJECT NO.
-	-	-	-	-	CHECKED BY: R. MEARS		REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER		NORWICH	103-261	
					SCALE AS NOTED	Filename: \$FILEAS	NORTH ELEVATION AND DETAILS		DRAWING NO. S-11	SHEET NO. 4.11	



SOUTH ELEVATION

SCALE: 1/8" = 1'

LEGEND

- (A) RECONSTRUCT PARAPET SECTION, PAID FOR UNDER "RESETTING STONE MASONRY"
- (B) REMOVAL OF RETAINING WALL IS PAID FOR UNDER "REMOVAL OF EXISTING MASONRY". EXCAVATION FOR REMOVAL OF THE RETAINING WALL IS PAID FOR UNDER "STRUCTURE EXCAVATION - EARTH (COMPLETE)". THE CONCRETE FOR RECONSTRUCTION OF THE RETAINING WALL IS PAID FOR UNDER "CLASS A CONCRETE" AND THE REINFORCING IS PAID FOR UNDER "DEFORMED STEEL BARS". THE STONE VENEER FACING FOR THE RETAINING WALL IS PAID FOR UNDER "MASONRY FACING".

U - UNDERSIDE OF BRIDGE

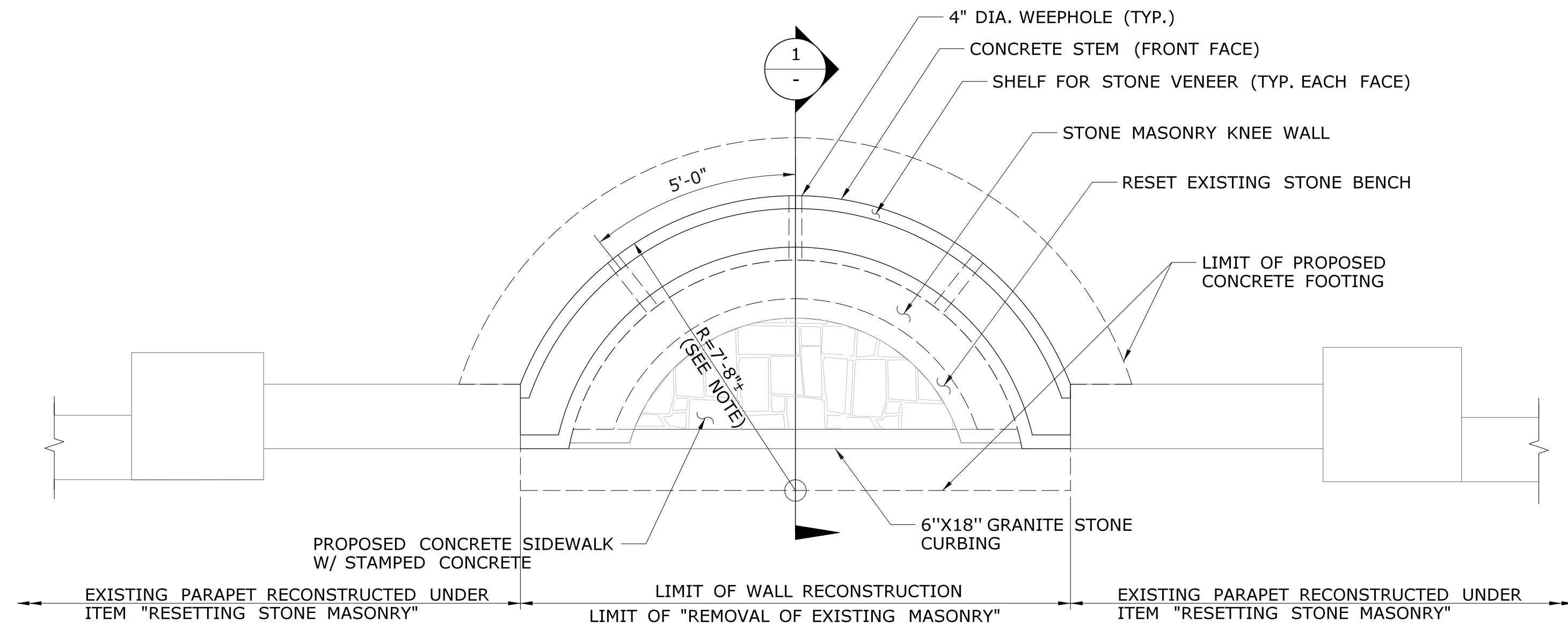
J - SPANDREL ARCH JOINT

L.F. - LENGTH OF "REPOINTED MASONRY"

NOTES:

1. FOR TYPICAL JOINT REPAIR AND DOVETAIL ANCHOR DETAILS, SEE DWG. NO. S-11.
2. REPOINT CAPSTONE JOINT, REPOINT MISSING/DETERIORATED SPANDREL WALL JOINTS, AND REPOINT UNDERSIDE OF ARCH JOINTS PAID FOR UNDER "REPOINT MORTAR JOINTS."
3. ALL WORK IN SPAN NO. 1, OVER THE YANTIC RIVER, SHALL OCCUR ABOVE THE ORDINARY HIGH WATER ELEVATION. THE CONTRACTOR SHALL UTILIZE A TEMPORARY MOVABLE DEBRIS SHIELD / PLATFORM TO ACCESS THE SPANDREL WALLS AND UNDERSIDE OF THE ARCH IN SPAN NO. 1.
4. SEE SPECIAL PROVISION FOR DEFINITION OF PAY LIMITS FOR "RESETTING STONE MASONRY".

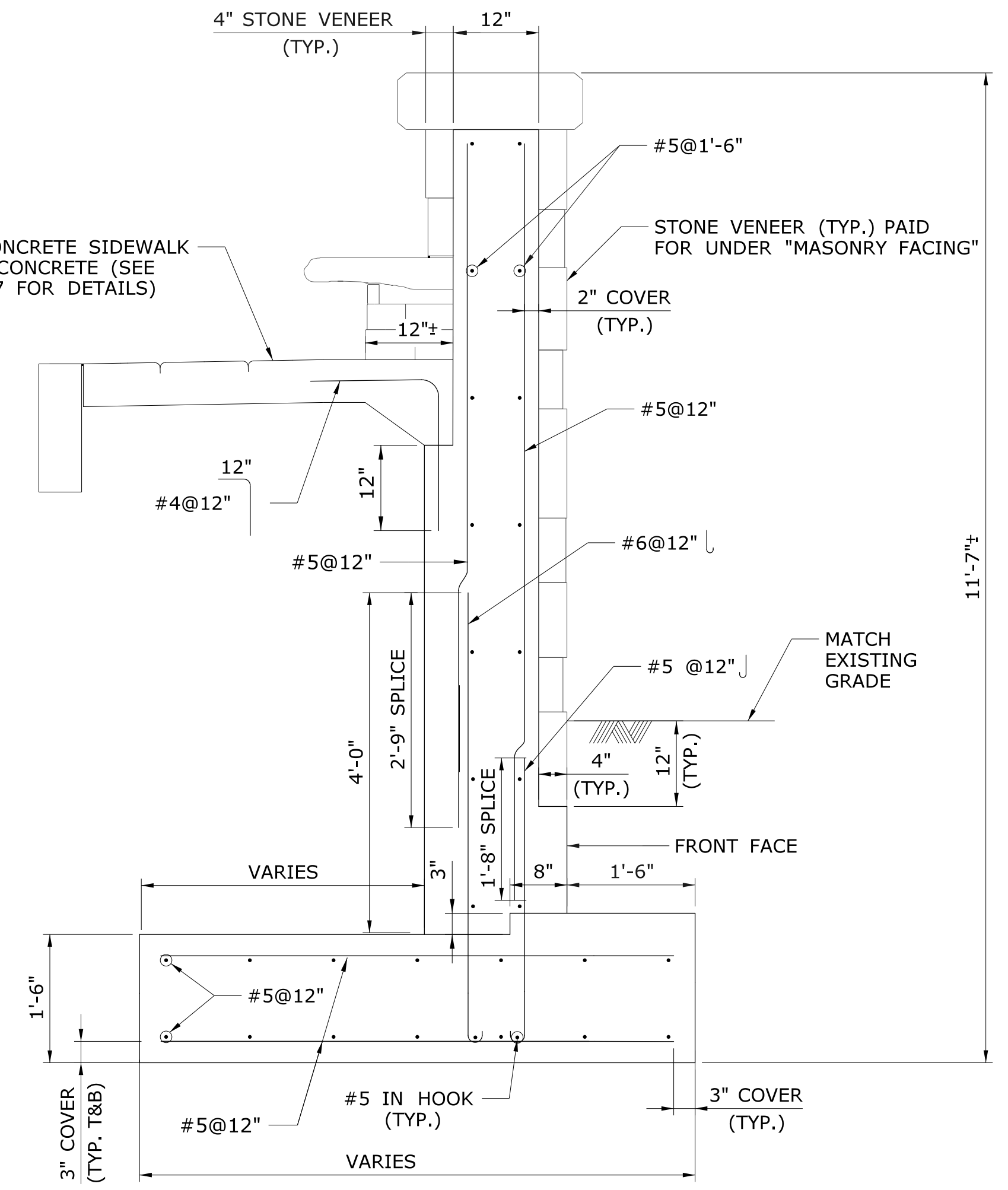
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.			DESIGNER/DRAFTER: S. LACHCIK CHECKED BY: R. MEARS SCALE AS NOTED		SIGNATURE/BLOCK: Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH	PROJECT NO. 103-261 DRAWING NO. S-12 SHEET NO. 4.12
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	Filename: \$FILEAS	DRAWING TITLE: SOUTH ELEVATION AND DETAILS		



TYPICAL RETAINING WALL PLAN

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

NOTE: MATCH EXISTING WALL CURVATURE AS MEASURED AT THE BASE OF WALL

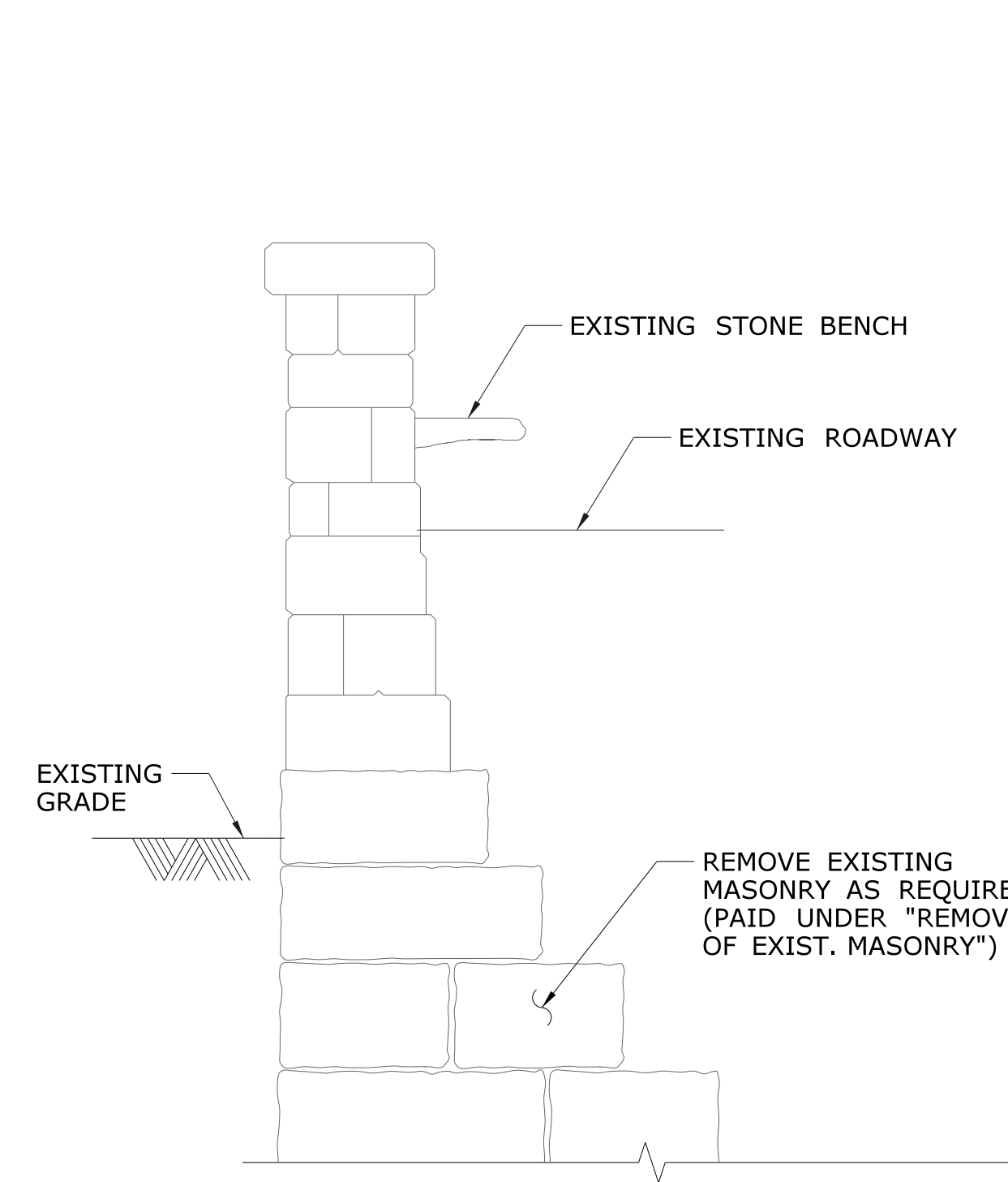


PROPOSED RETAINING WALL SECTION

SCALE: 3/4"=1'-0"

NOTE: CERTAIN DETAILS NOT SHOWN FOR CLARITY SEE SECTION 1 FOR WALL INFORMATION NOT SHOWN

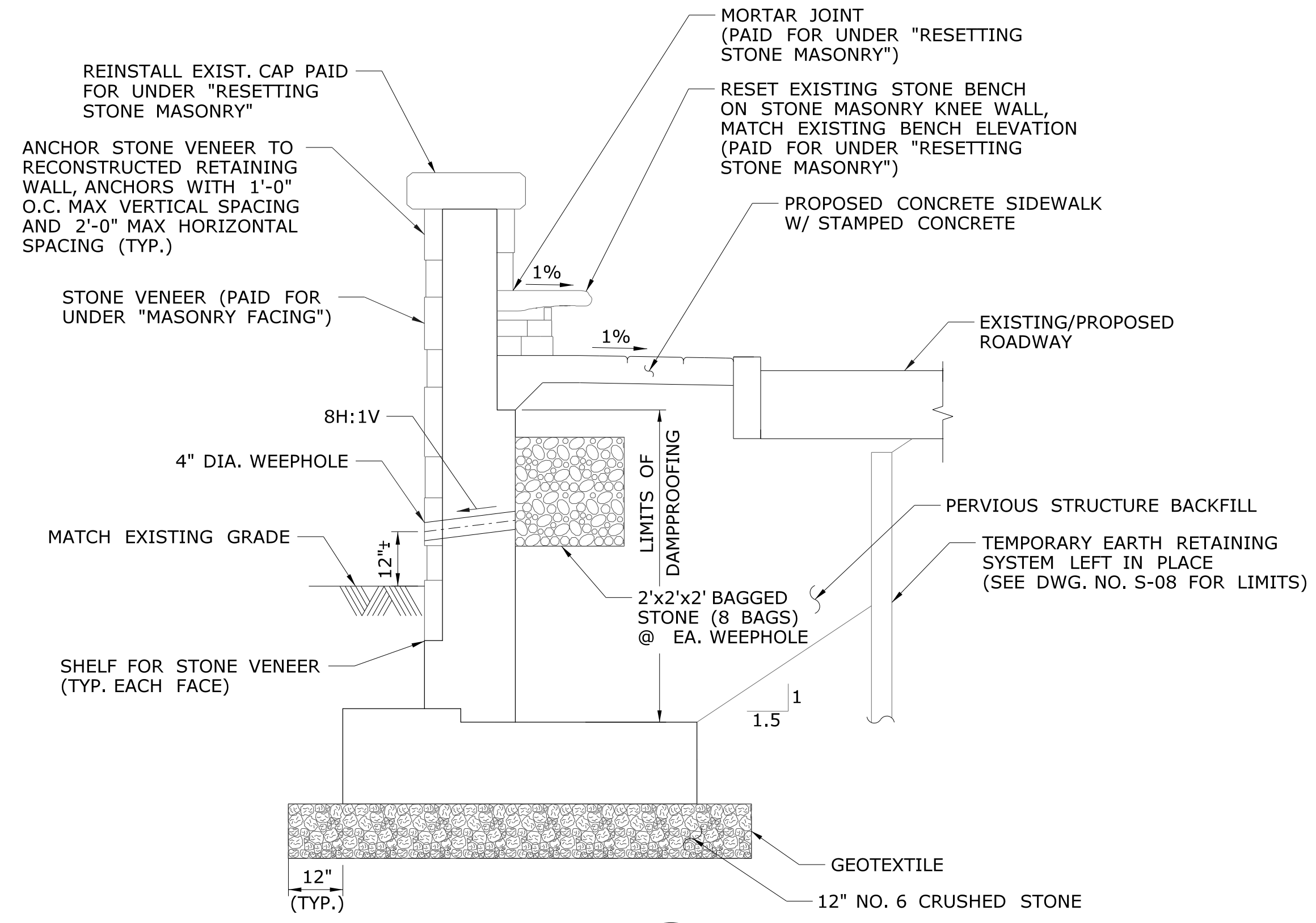
NOTES:
 REMOVAL OF RETAINING WALL IS PAID FOR UNDER "REMOVAL OF EXISTING MASONRY".
 EXCAVATION FOR REMOVAL OF THE RETAINING WALL IS PAID FOR UNDER "STRUCTURE EXCAVATION - EARTH (COMPLETE)".
 THE CONCRETE FOR RECONSTRUCTION OF THE RETAINING WALL IS PAID FOR UNDER "CLASS A CONCRETE" AND THE REINFORCING IS PAID FOR UNDER "DEFORMED STEEL BARS".
 THE STONE VENEER FACING FOR THE RETAINING WALL IS PAID FOR UNDER "MASONRY FACING".



EXISTING WALL SECTION

NOT TO SCALE

NOTE: EXISTING WALL BATTER IS APPROXIMATE, EXISTING PLANS WERE NOT AVAILABLE.

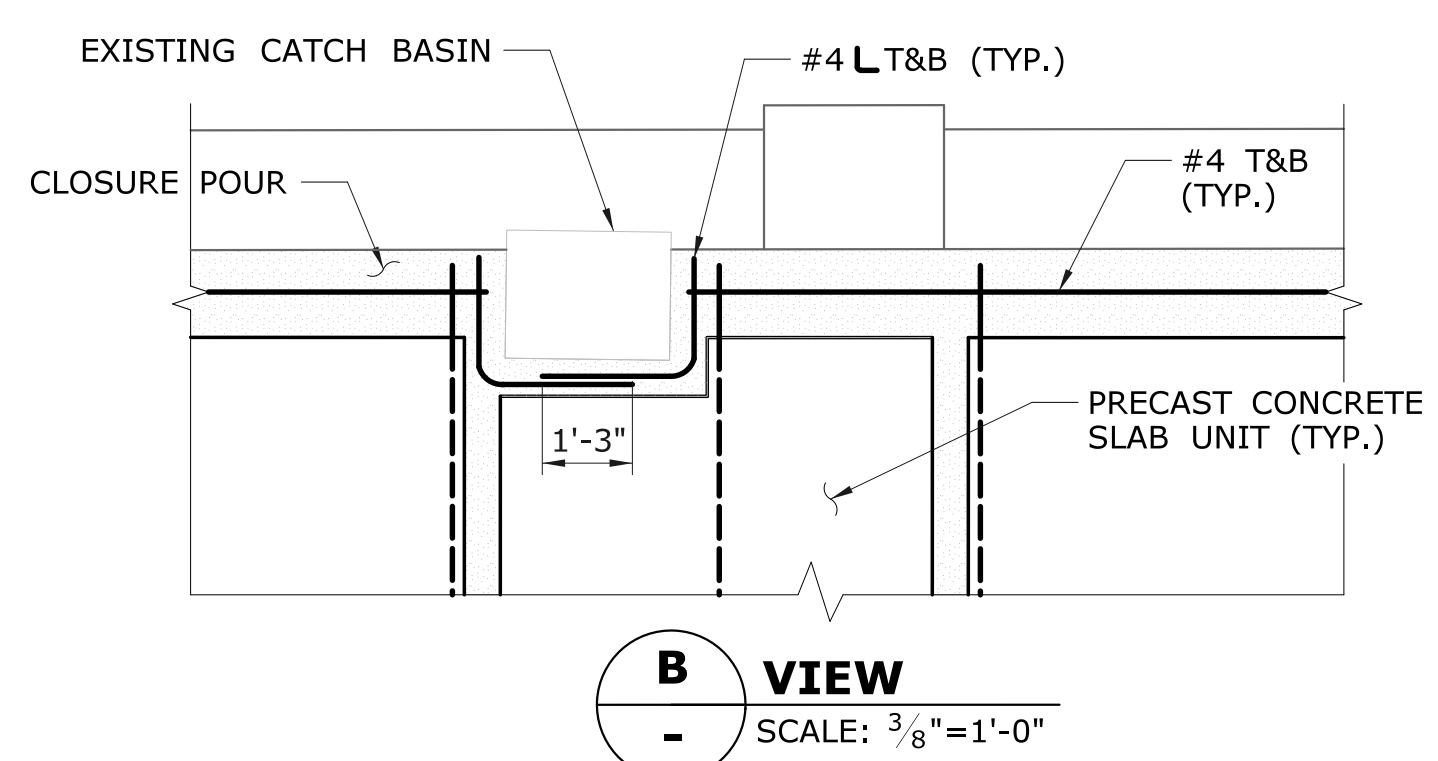
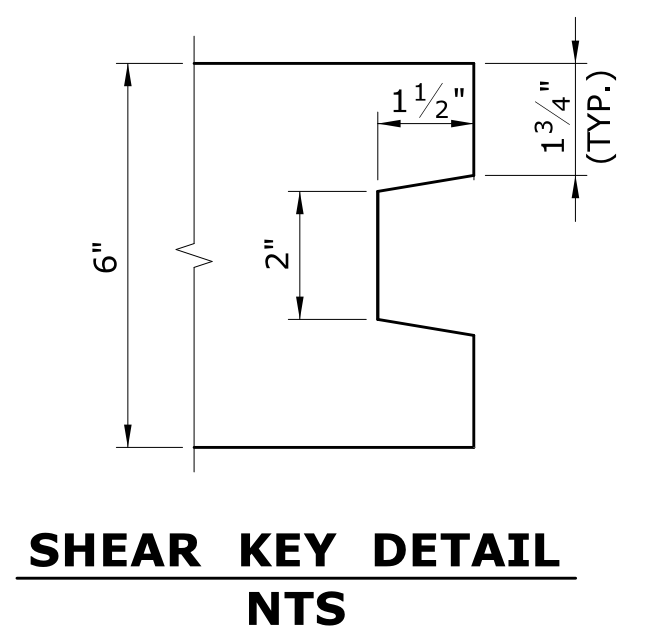
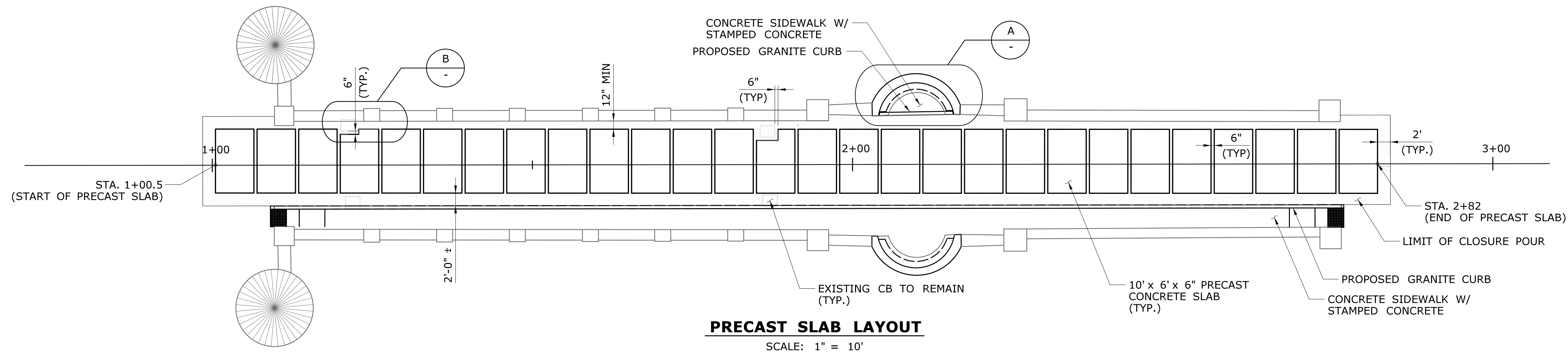


SECTION 1

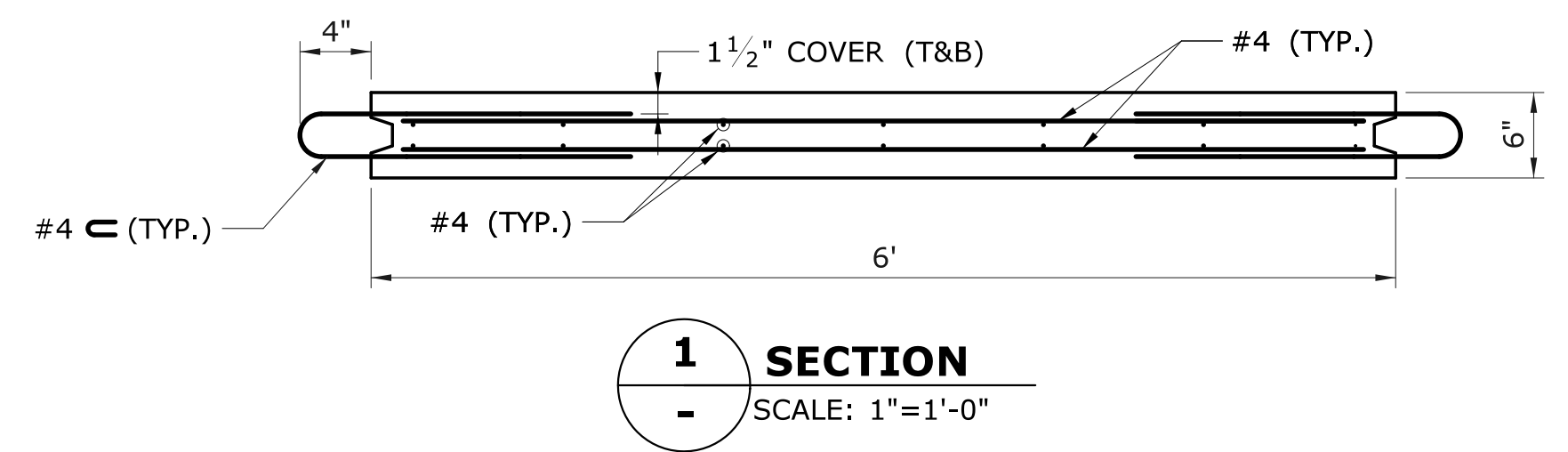
SCALE: 1/2"=1'-0"

NOTE: SEE "PROPOSED RETAINING WALL SECTION" FOR WALL DIMENSIONS AND REINFORCING DETAILS

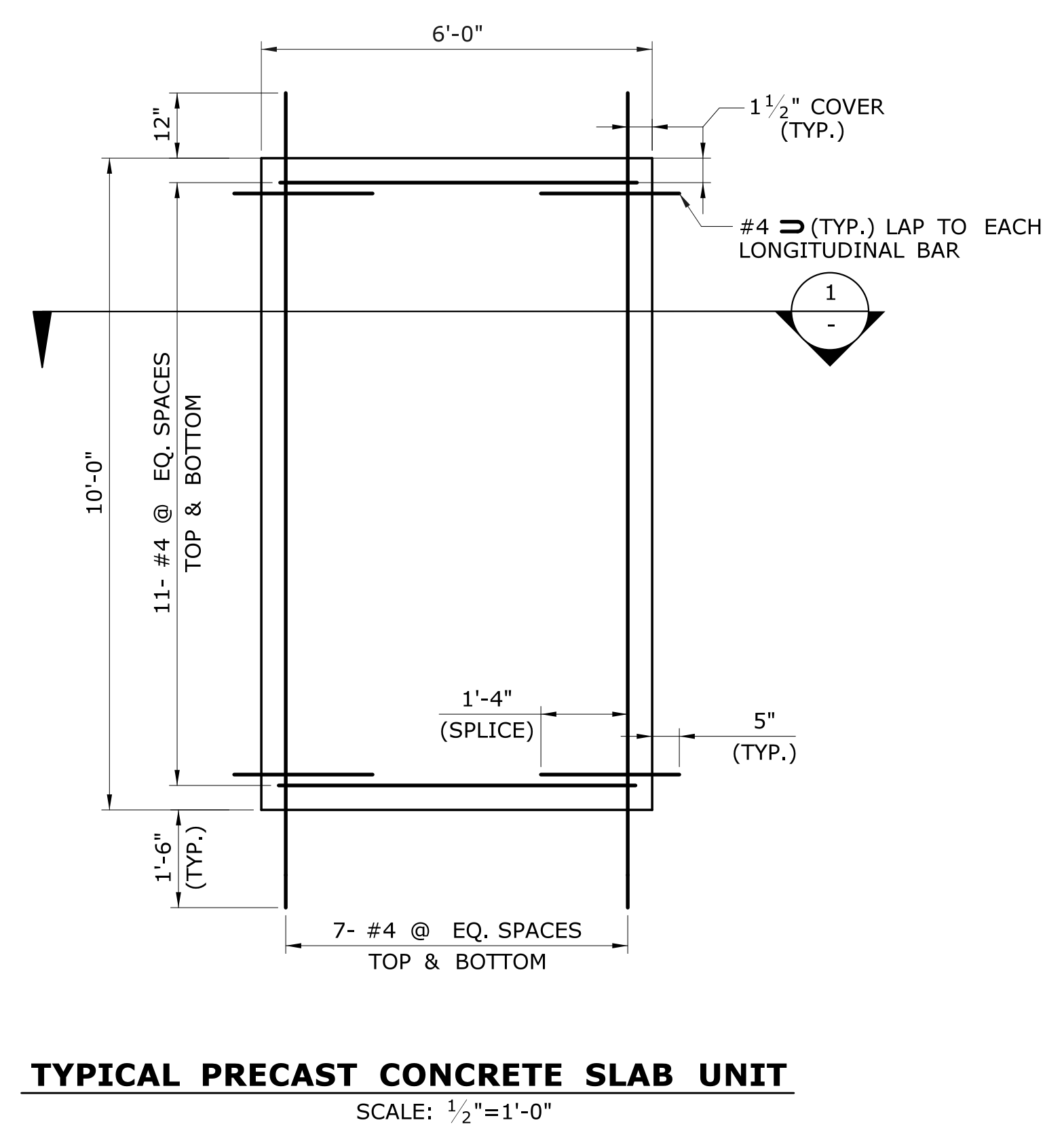
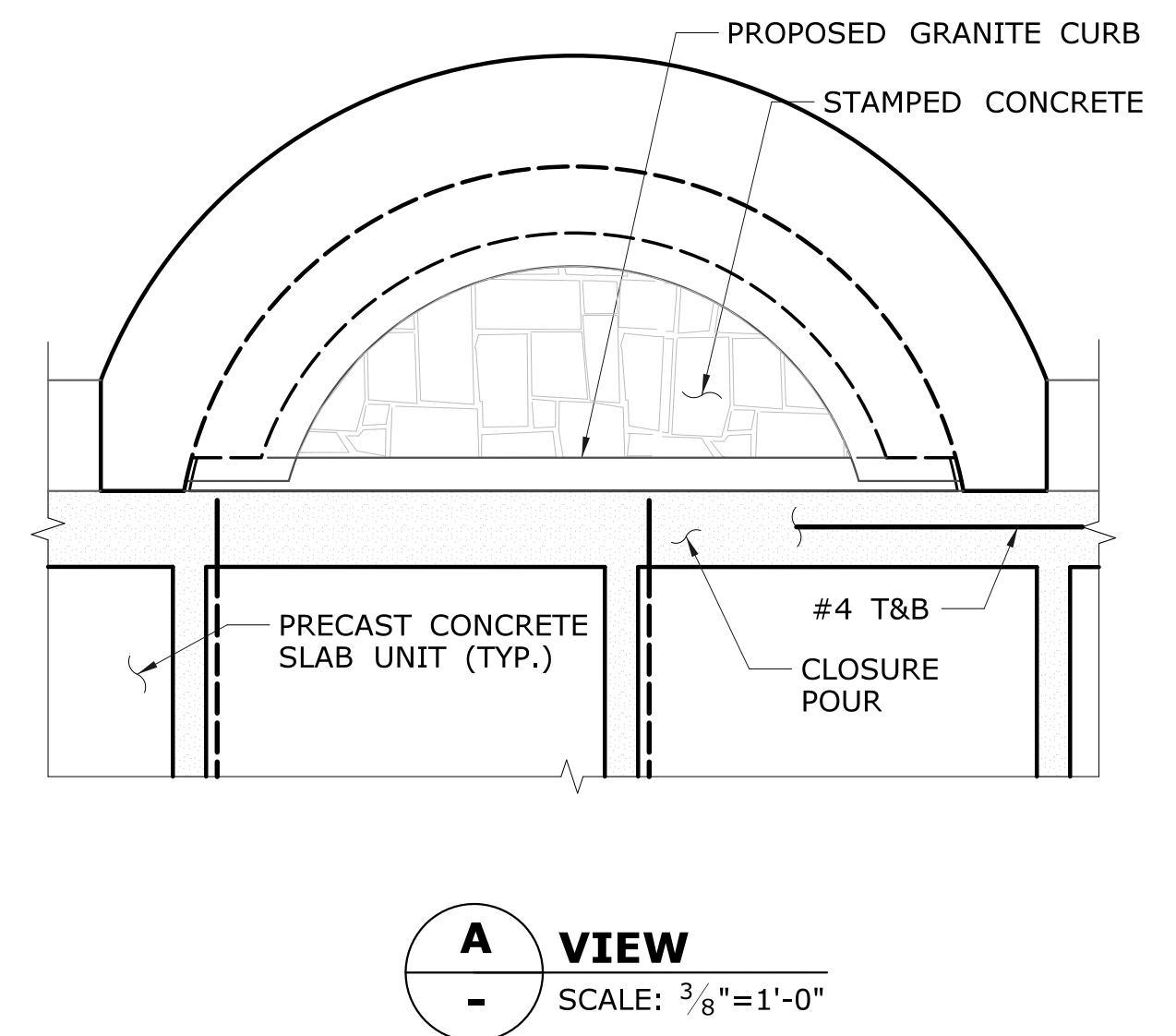
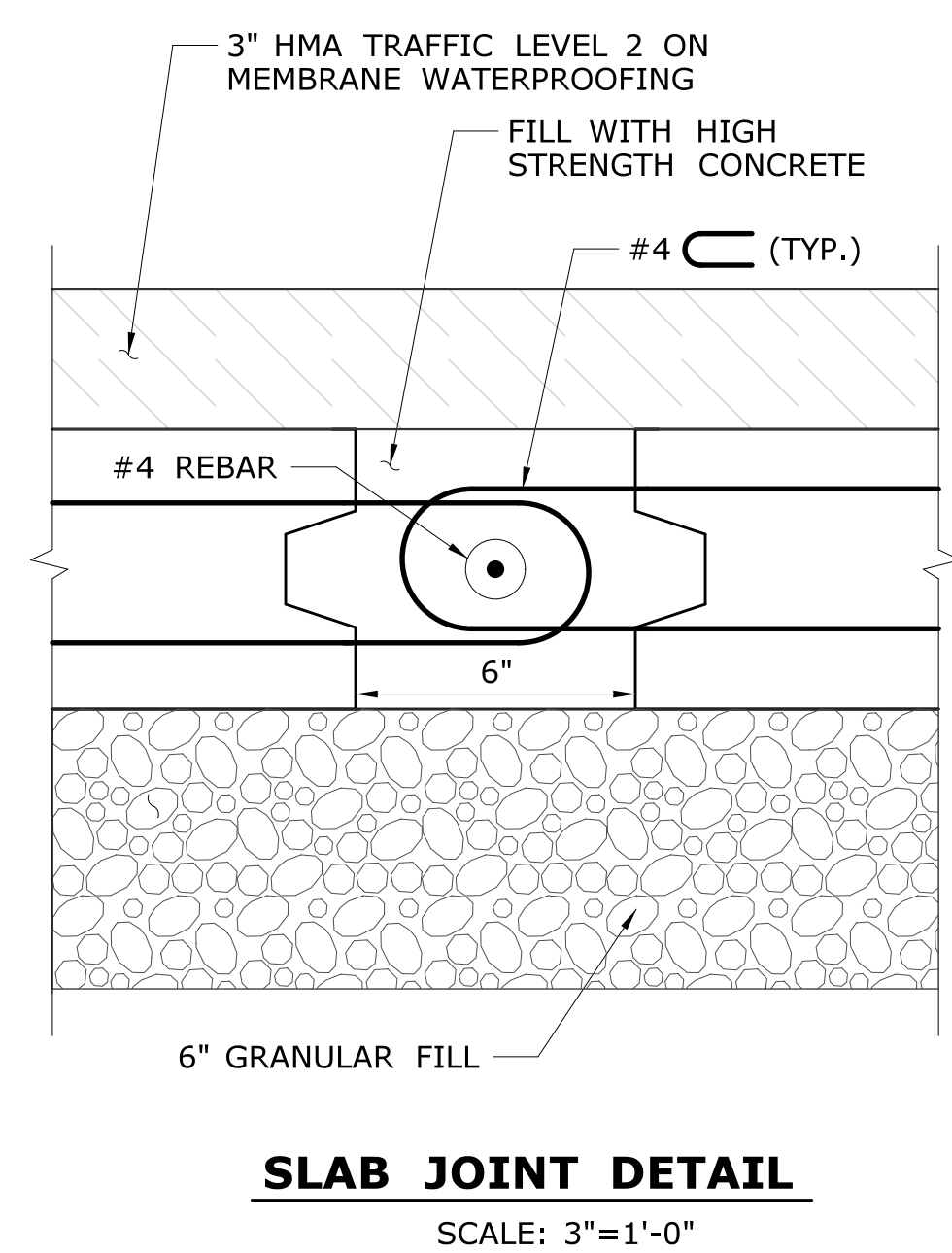
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: S. LACHCIK CHECKED BY: R. MEARS SCALE AS NOTED		SIGNATURE/BLOCK: Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH	PROJECT NO. 103-261 DRAWING NO. S-13 SHEET NO. 4.13
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	Filename: \$FILES	RETAINING WALL PLAN AND DETAILS	



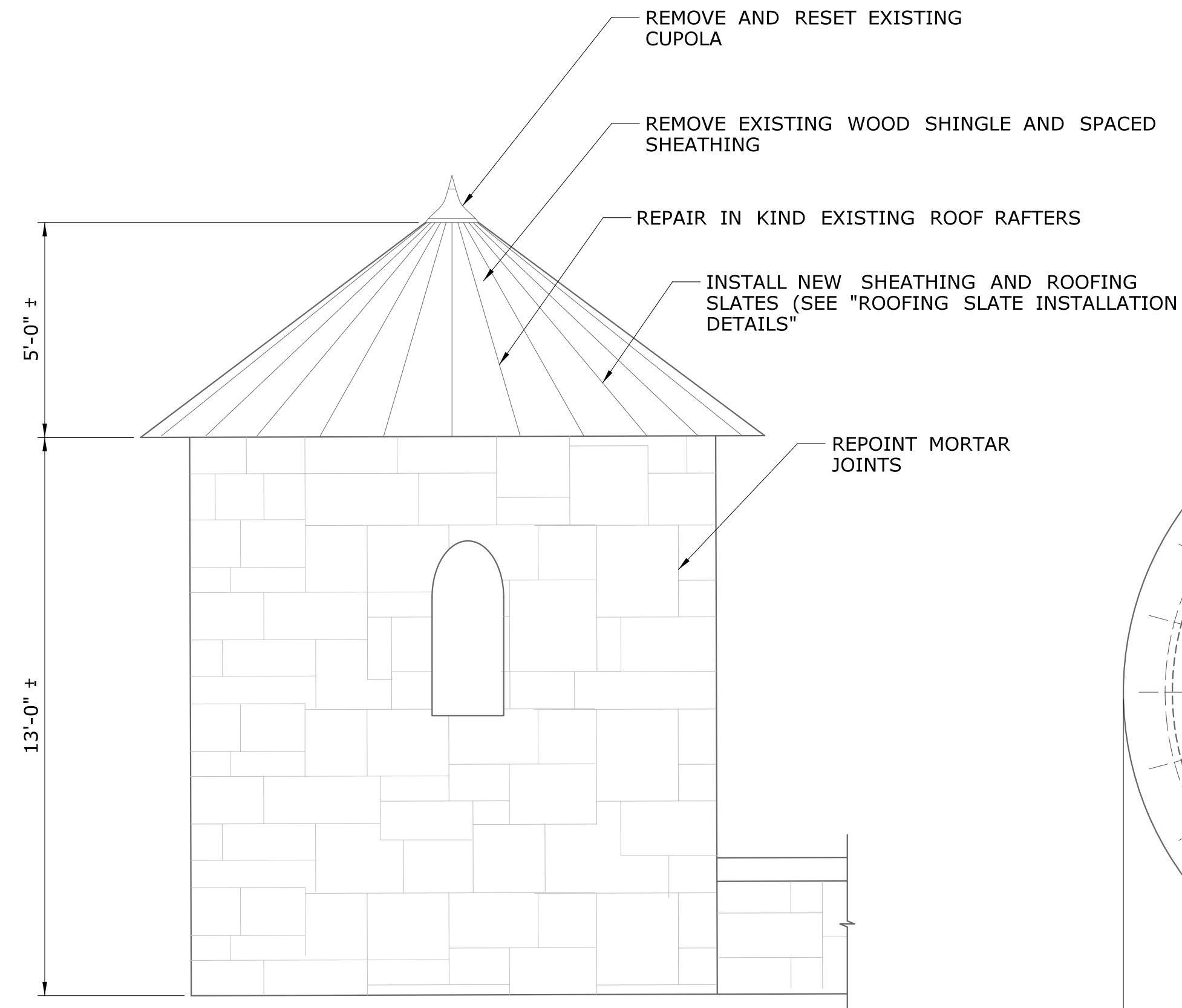
NOTE:
ALL REBAR IN CLOSURE POUR & PRECAST CONCRETE SLAB UNIT SHALL BE EPOXY COATED



NOTE:
CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING CATCH BASINS BEFORE FABRICATING PRECAST CONCRETE SLAB PANELS

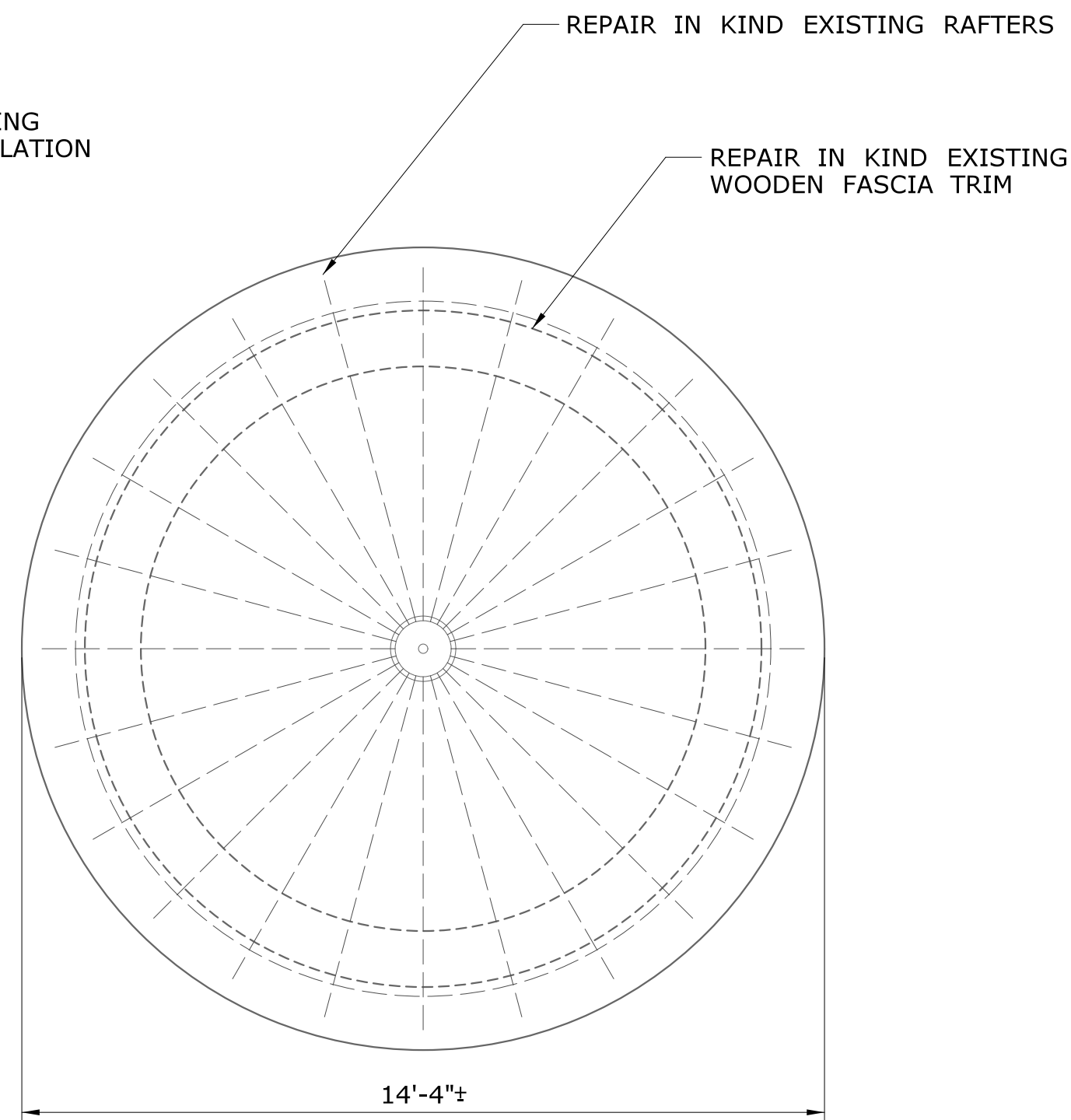


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REV.	DATE	REVISION DESCRIPTION	SHEET NO.																																												
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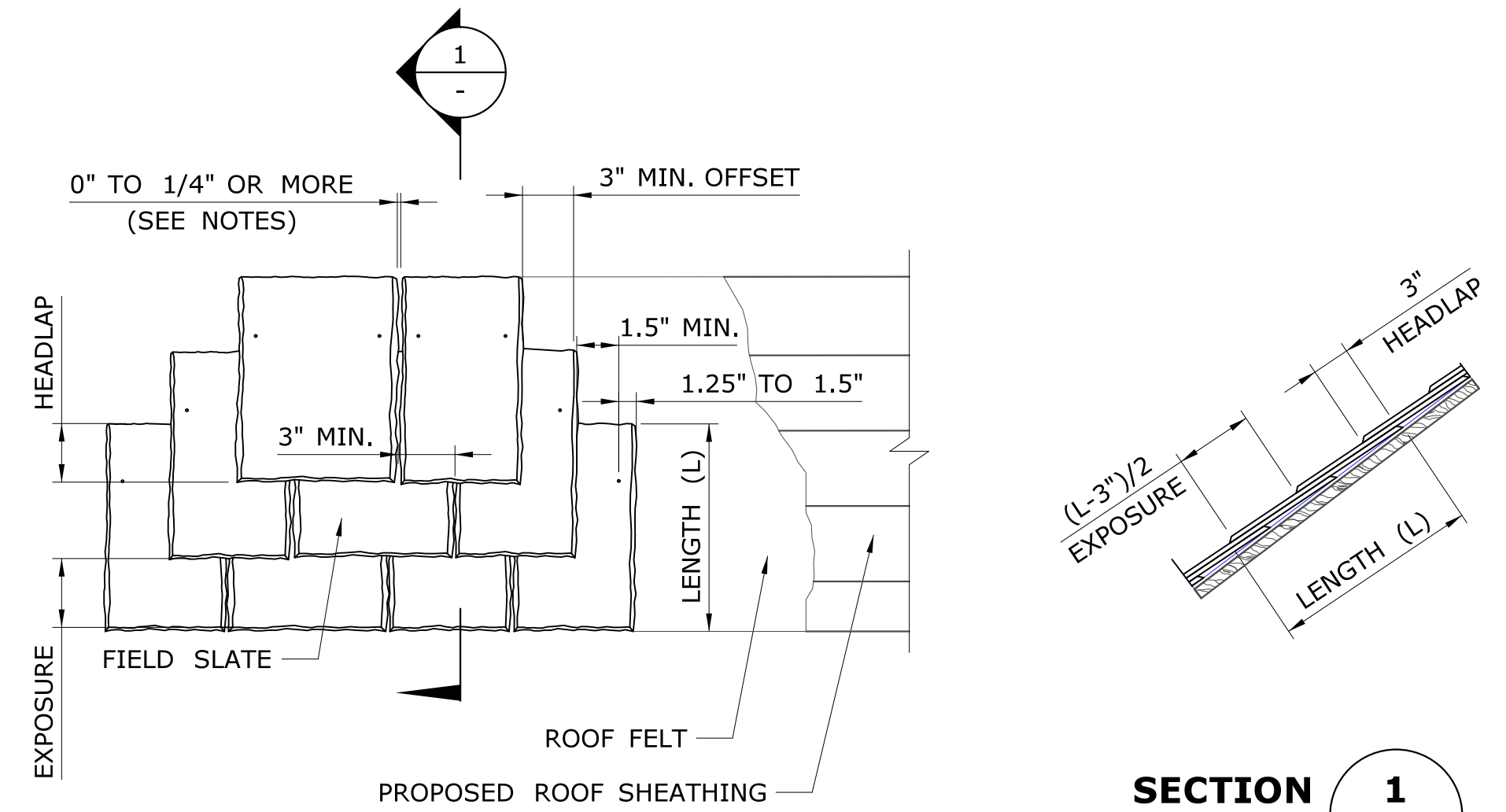
TURRET ELEVATION

SCALE: $\frac{3}{8}'' = 1'$



TURRET ROOF PLAN

SCALE: $\frac{3}{8}'' = 1'$



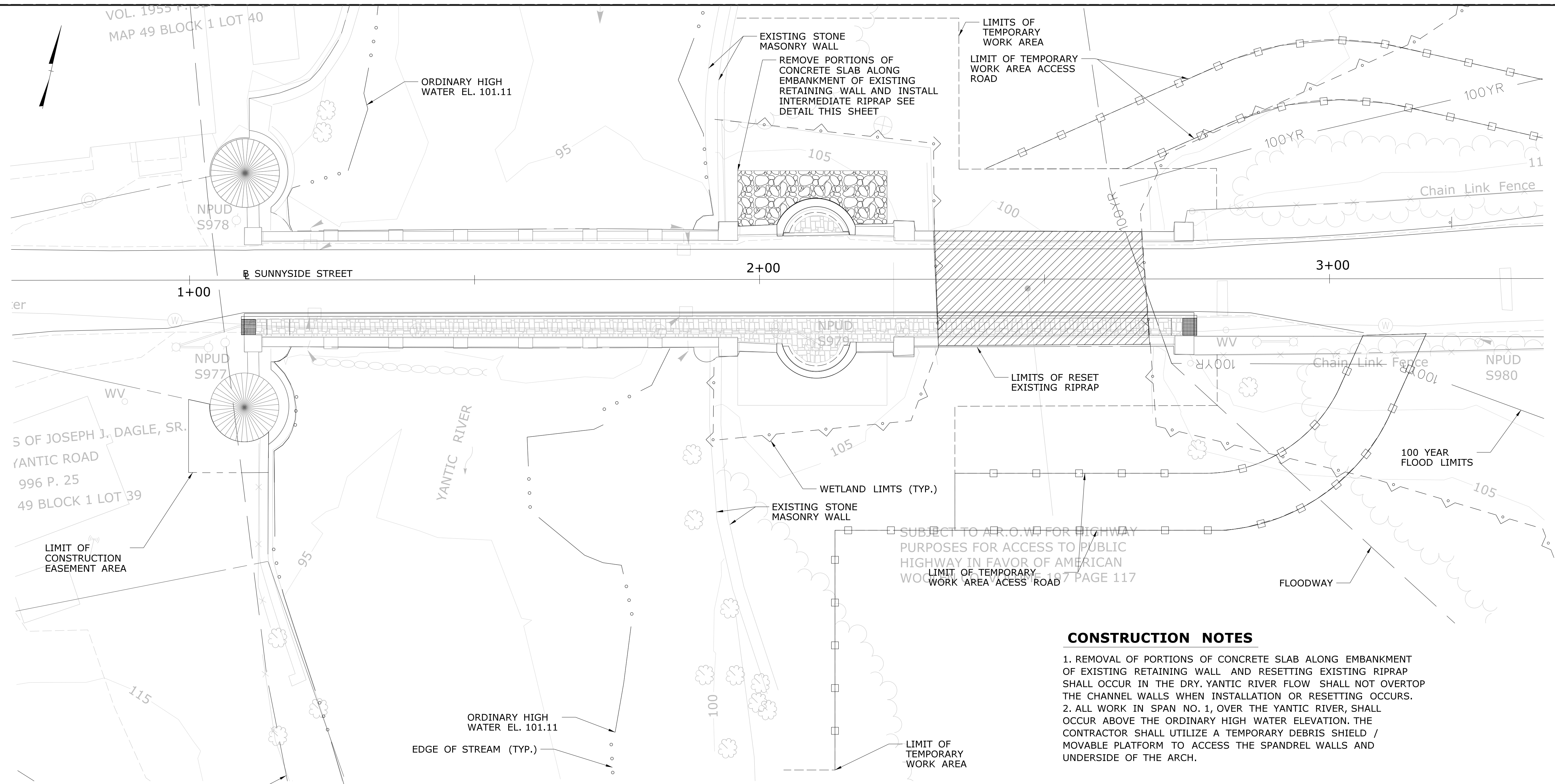
PLAN VIEW

ROOFING SLATE INSTALLATION DETAILS

SCALE: 1" = 1'

NOTE:
1. ALL REPAIRS AND REMOVAL OF DETERIORATED ELEMENTS TO THE TURRET ROOF ARE PAID FOR UNDER "SLATE SHINGLE ROOF".

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	Filename: \$FILEAS		

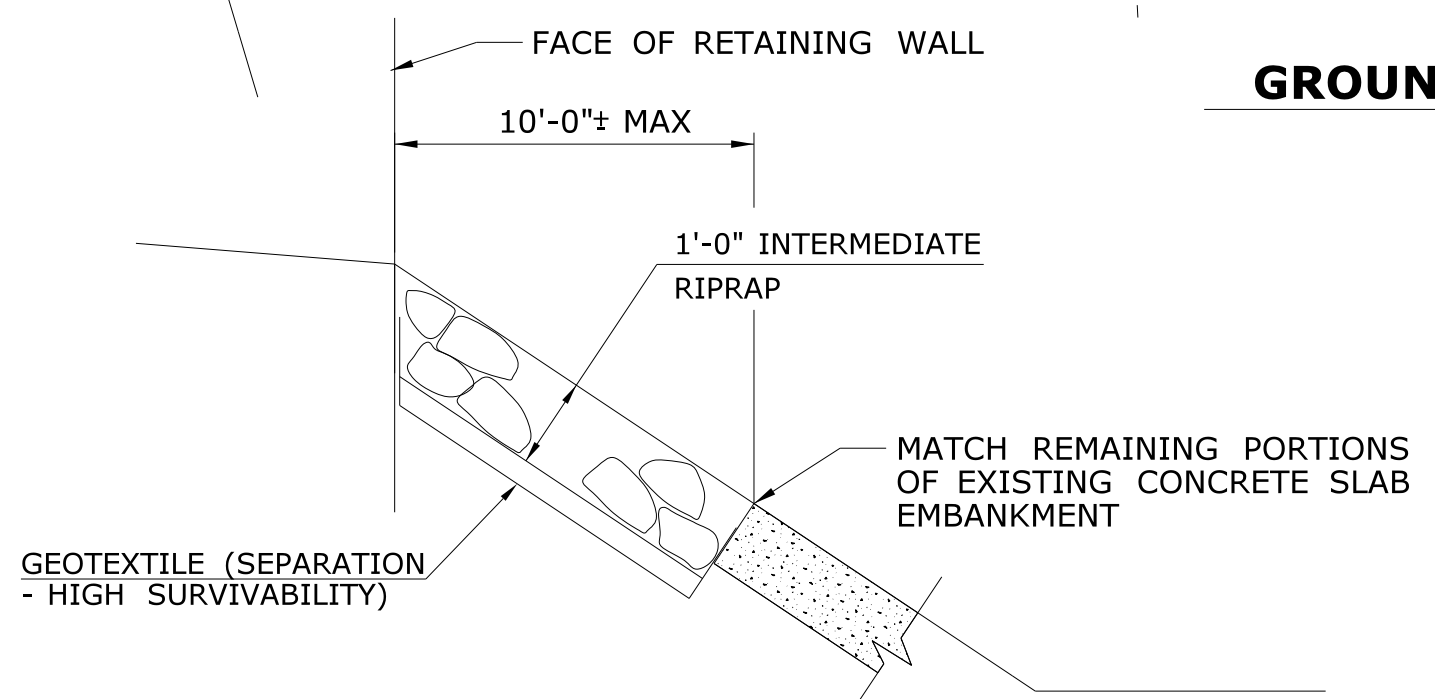


CONSTRUCTION NOTES

1. REMOVAL OF PORTIONS OF CONCRETE SLAB ALONG EMBANKMENT OF EXISTING RETAINING WALL AND RESETTING EXISTING RIPRAP SHALL OCCUR IN THE DRY. YANTIC RIVER FLOW SHALL NOT OVERTOP THE CHANNEL WALLS WHEN INSTALLATION OR RESETTING OCCURS.
2. ALL WORK IN SPAN NO. 1, OVER THE YANTIC RIVER, SHALL OCCUR ABOVE THE ORDINARY HIGH WATER ELEVATION. THE CONTRACTOR SHALL UTILIZE A TEMPORARY DEBRIS SHIELD / MOVABLE PLATFORM TO ACCESS THE SPANDREL WALLS AND UNDERSIDE OF THE ARCH.

GROUND STABILIZATION PLAN

SCALE: 1" = 10'

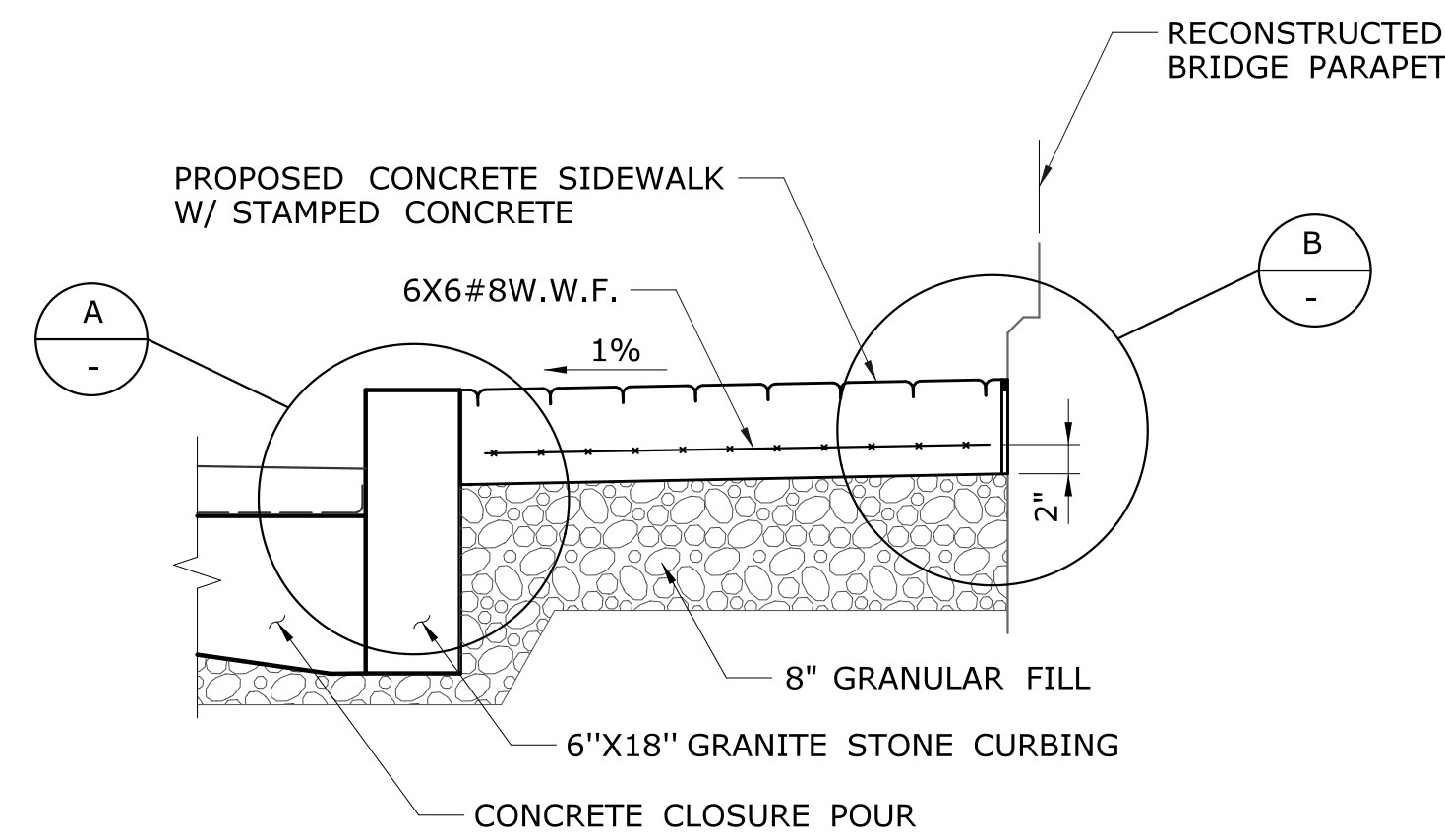


INTERMEDIATE RIPRAP AT EMBANKMENT

SCALE: NTS

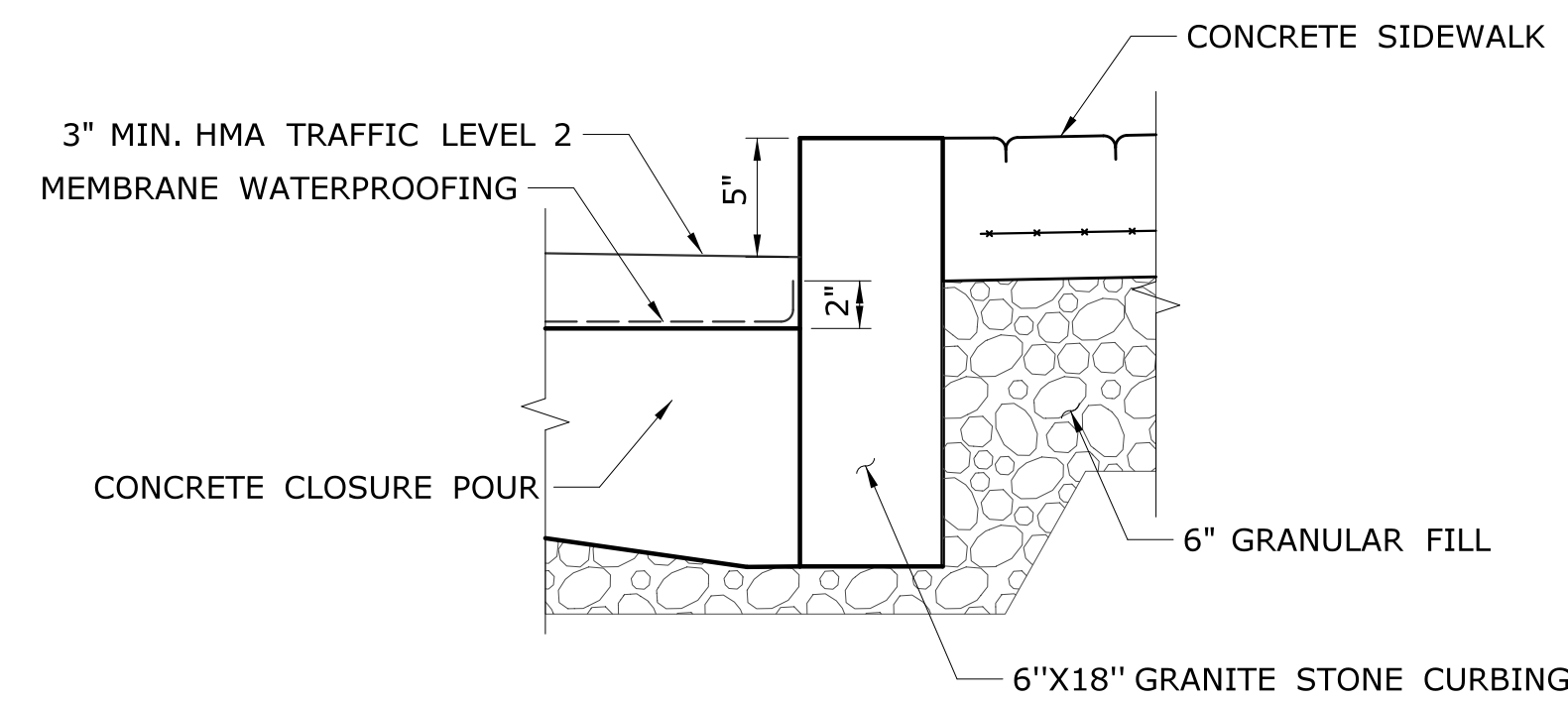
*NOTE 500 YEAR FLOOD IS OUTSIDE LIMITS OF THE PROJECT

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	Filename: \$FILES			

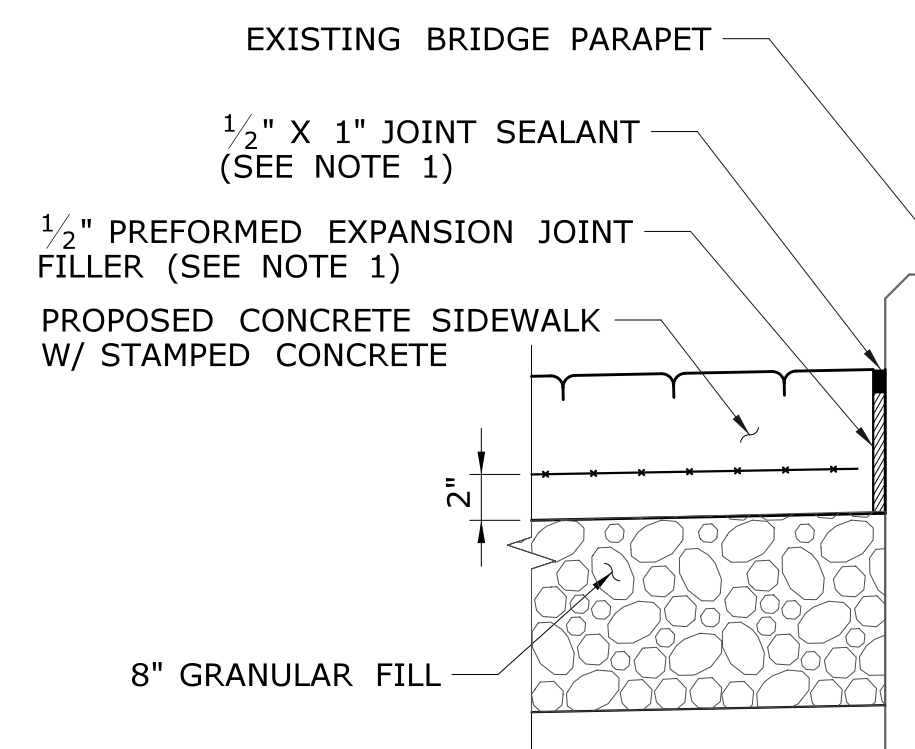


CONCRETE SIDEWALK

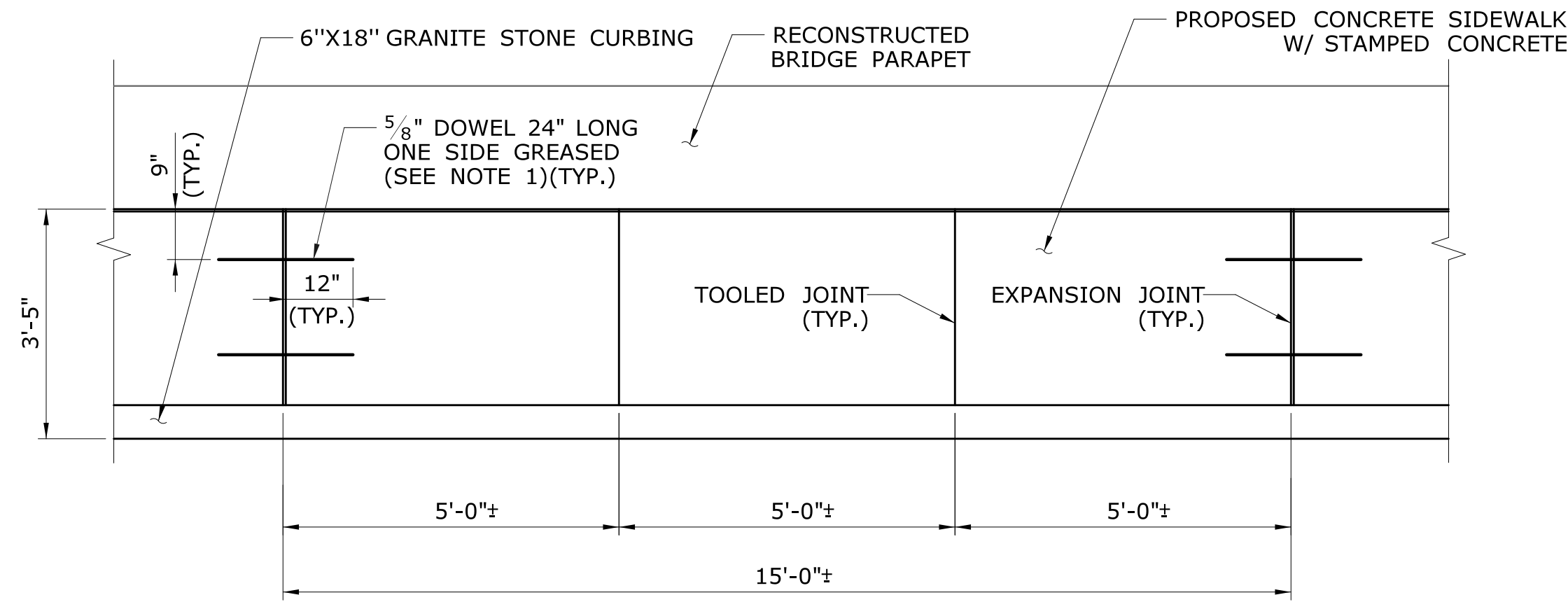
SCALE: 1"=1'-0"



A **DETAIL**
SCALE: 1 1/2"=1'-0"

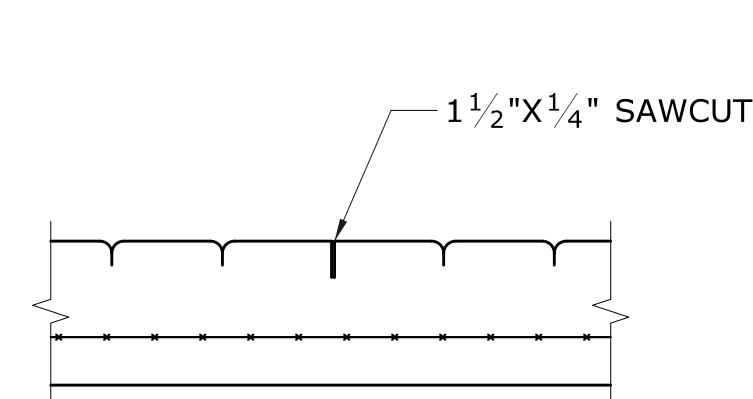


A **DETAIL**
SCALE: 1 1/2"=1'-0"

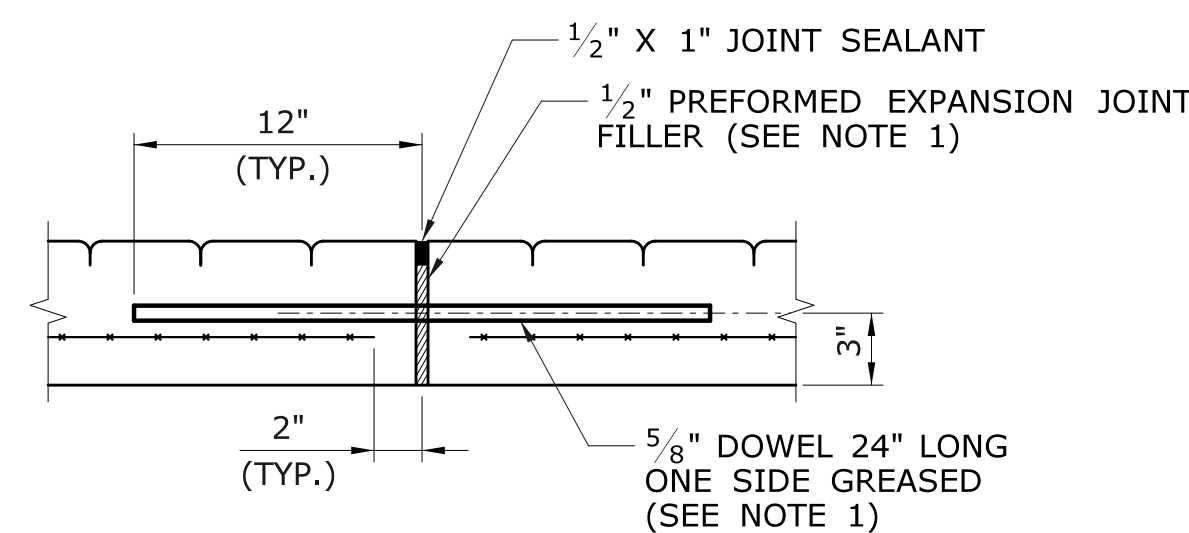


CONCRETE SIDEWALK TRANSVERSE JOINT LAYOUT

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



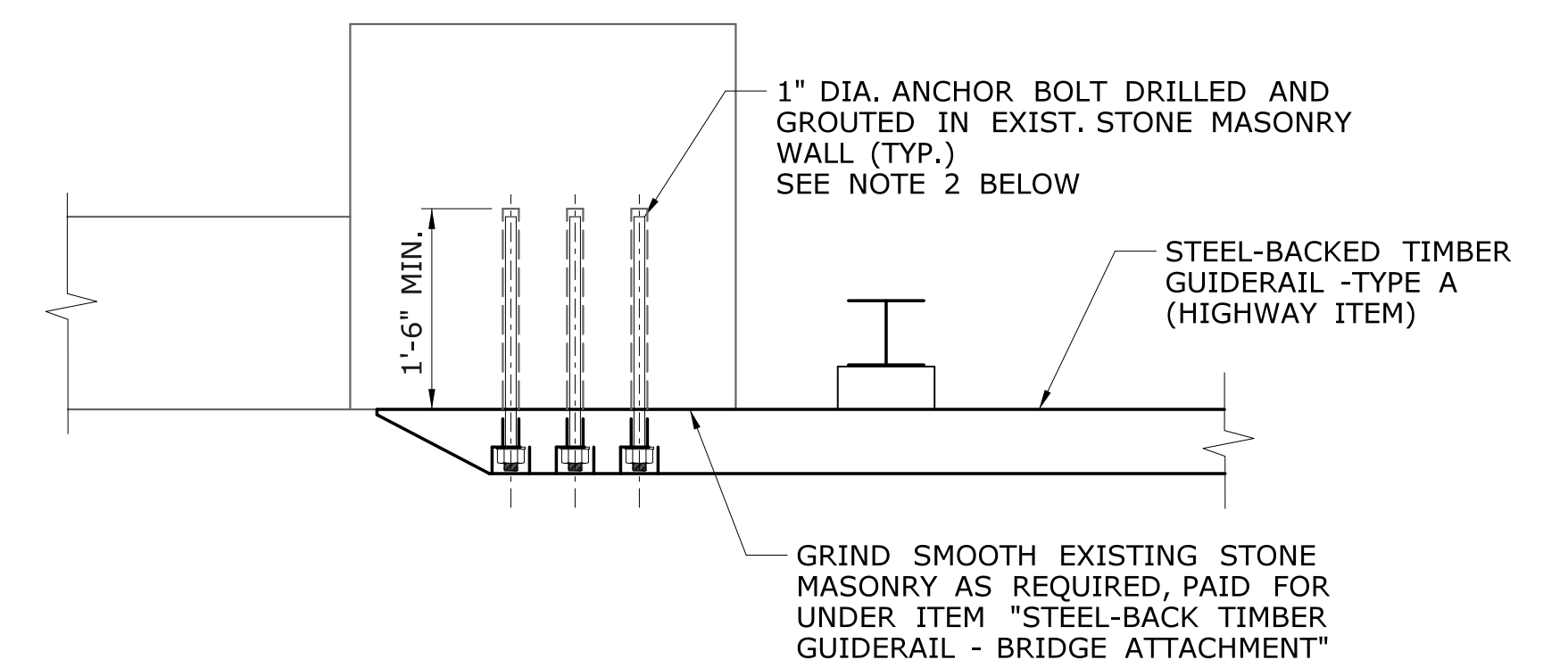
TOOLED JOINT



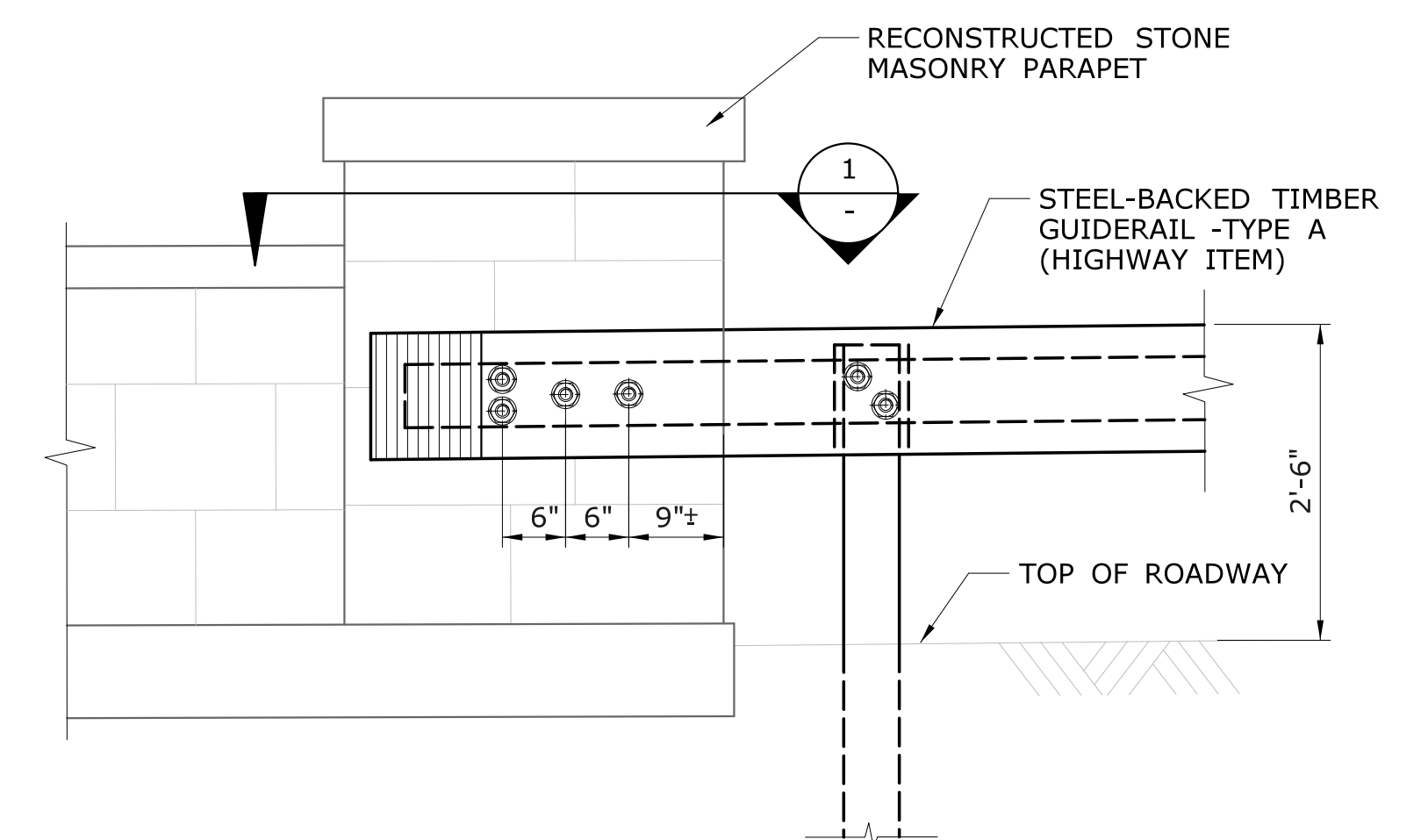
EXPANSION JOINT

CONCRETE SIDEWALK NOTES:

1. 1/2" PREFORMED EXPANSION JOINT FILLER, 1/2" X 1" JOINT SEALANT, 5/8" DOWEL AND ALL COST ASSOCIATED SHALL BE PAID FOR UNDER "CONCRETE SIDEWALK".
2. IF REQUIRED, REINFORCING WIRE MESH SHALL BE LAPPED 8" MIN. AND TIED TOGETHER WITH WIRE SPACED NOT OVER 24" ON CENTER.
3. EXPANSION MATERIAL SHALL MEET ASTM SPECIFICATION D-1752-04 TYPE II.
4. STAMPED CONCRETE INCLUDED UNDER THE ITEM "CONCRETE SIDEWALK".



SECTION 1



ELEVATION VIEW

STEEL-BACKED TIMBER GUIDERAIL ATTACHMENT DETAILS

N.T.S.

GUIDERAIL ATTACHMENT NOTES:

1. FOR ADDITIONAL DETAILS REFER TO DWG NOS. HWY 11-13.
2. DRILLING AND GROUTING FOR 1" DIA. ANCHOR SHALL BE PAID FOR UNDER "DRILLING HOLES AND GROUTING ANCHOR BOLTS".

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	DESIGNER/DRAFTER: S. LACHCIK		SIGNATURE/ BLOCK: Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER	CITY: NORWICH	PROJECT NO. 103-261
					CHECKED BY: R. MEARS					DRAWING NO. S-17
					SCALE AS NOTED				DRAWING TITLE: CONCRETE SIDEWALK	SHEET NO. 4.17