



Town of

VERNON



GENERAL NOTES:

- ADT: 1020 VPD (2015)
CONNECTICUT D.O.T. CLASSIFICATION: URBAN LOCAL
DESIGN SPEED: 25 MPH

DISCLAIMER

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICAL SOURCES WITHIN THE DEPARTMENT.

PERSONS AND/OR ENTITIES WHICH REPRODUCE AND/OR MAKE SUCH INFORMATION AVAILABLE BY ANY MEANS ARE NOT AUTHORIZED BY THE DEPARTMENT TO DO SO AND MAY BE LIABLE FOR CLAIMS RESULTING FROM THE DISSEMINATION OF UNOFFICIAL, INCOMPLETE AND/OR INACCURATE INFORMATION.

[illegible]

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Plans For
REPLACEMENT OF BRIDGE NO. 04576
PLEASANTVIEW DRIVE
OVER HOCKANUM RIVER

Town of
VERNON

STATE PROJECT NO.

0146-0200

DRAWING NO.
G-01

SHEET NO.
01.01

[illegible]

[illegible]

SEMI FINAL DESIGN REVIEW		
BRIDGE NO. VIEW DRIVE M RIVER	TOWN: VERNON	PROJECT NO. 146-200
	DRAWING TITLE: INDEX OF DRAWINGS	DRAWING NO. HWY-01
		SHEET NO. 03.01

[illegible]

Plotted Date: 5/19/2017

DESIGNER/DRAFTER:	JRA
CHECKED BY:	ADC
SCALE AS NOTED	



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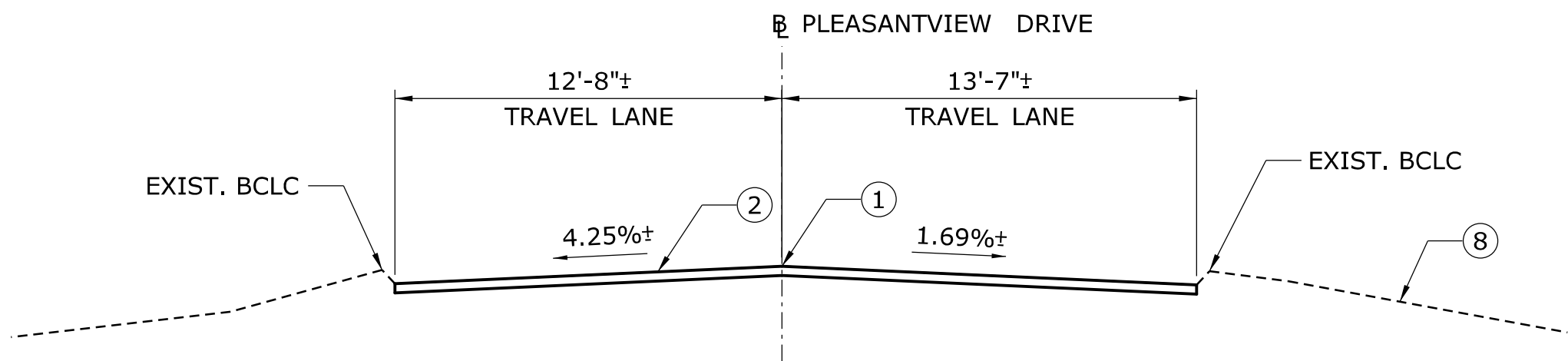
REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER

DRAWING TITLE:

INDEX OF DRAWINGS

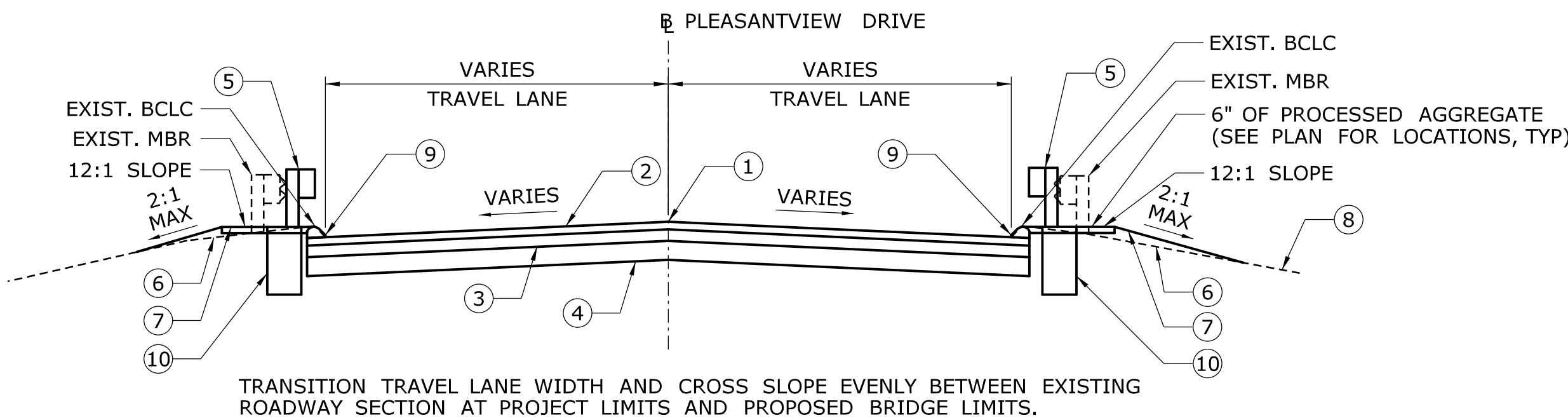
HEET NO.
03.01

TYPICAL SECTIONS

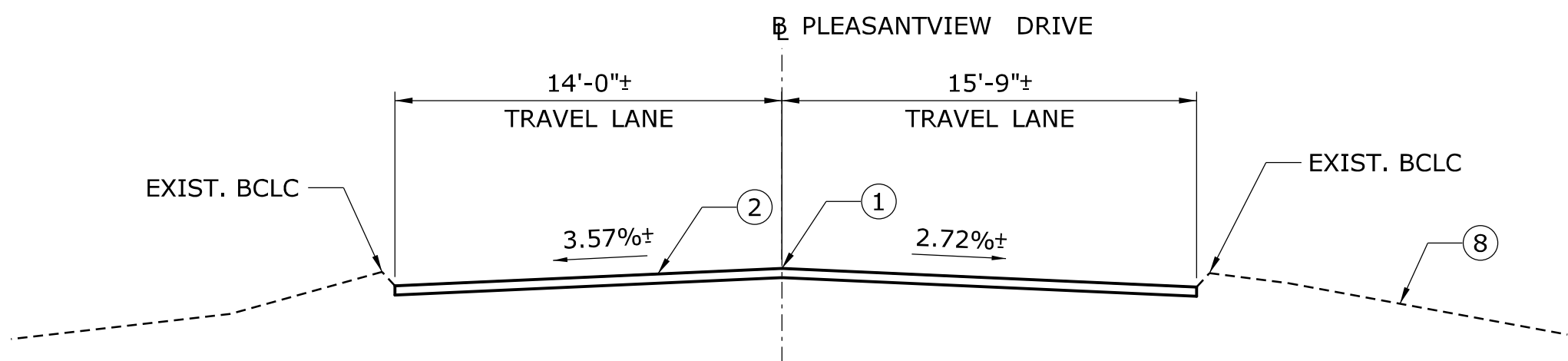


EXISTING ROADWAY SECTION
END PROJ. NO. 146-0200
STA. 12+50.00
MATCH EXISTING
NOT TO SCALE

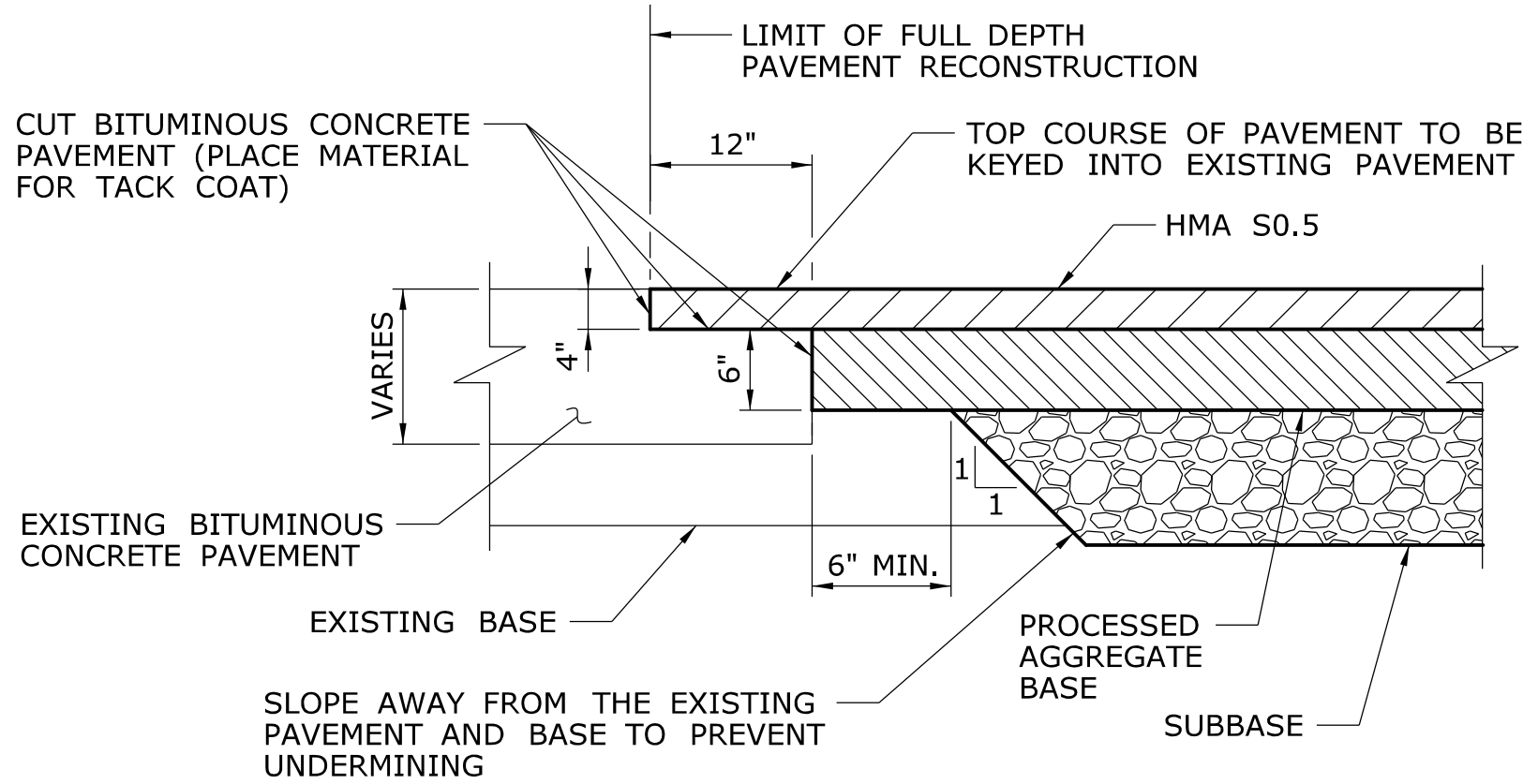
STA. 11+15.31 TO STA. 11+96.88
SEE STRUCTURE SHEETS
NOT TO SCALE



PROPOSED ROADWAY TRANSITION SECTION
STA. 10+60.00 TO STA. 11+15.31
AND
STA. 11+96.88 TO STA. 12+50.00
NOT TO SCALE

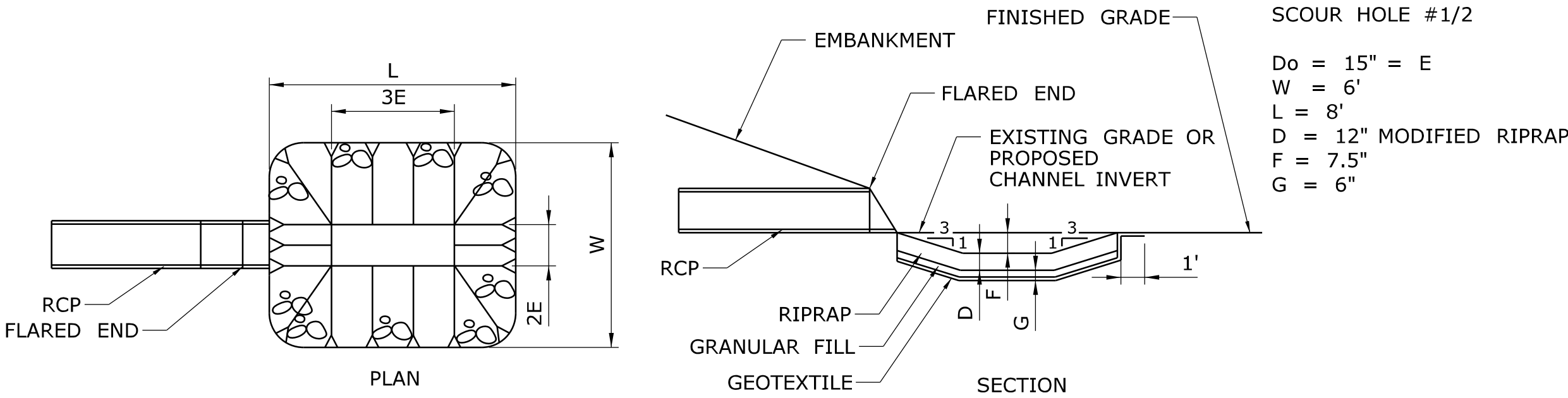


EXISTING ROADWAY SECTION
BEGIN PROJ. NO. 146-0200
STA. 10+60.00
MATCH EXISTING
NOT TO SCALE

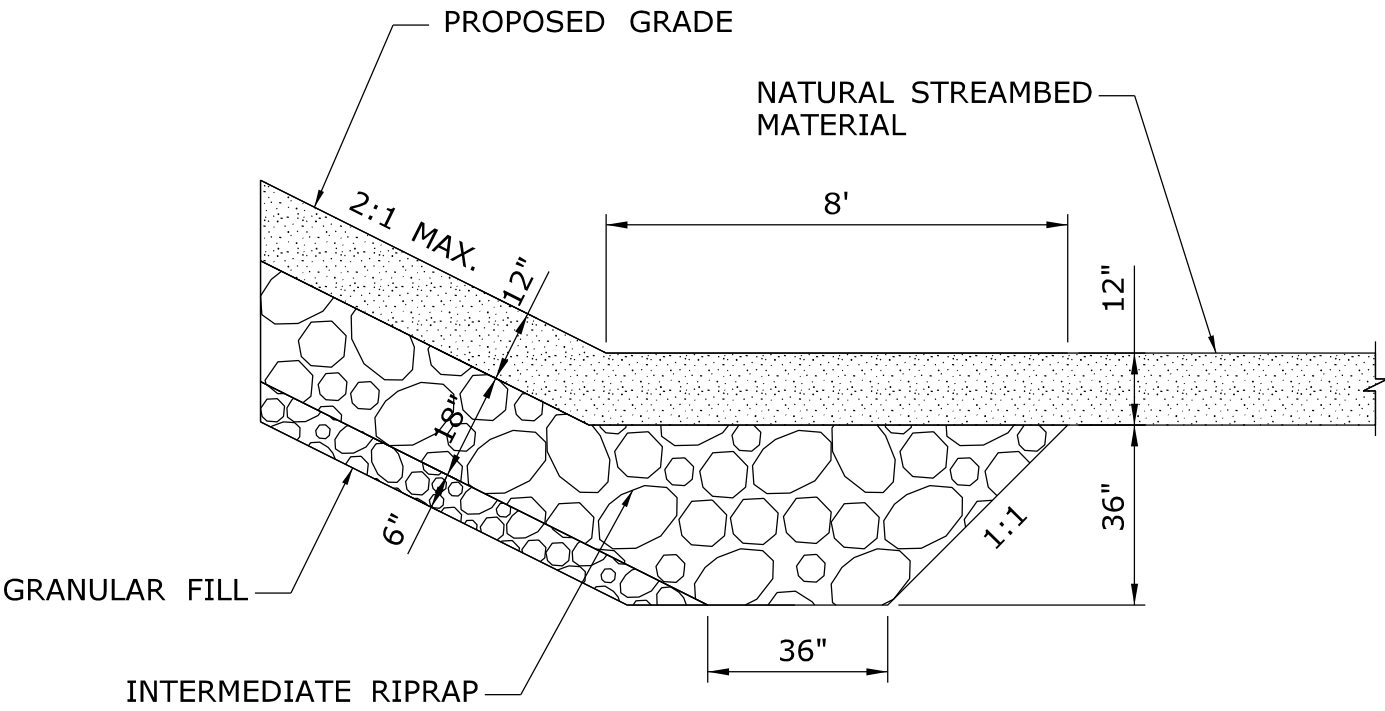


TRANSVERSE PAVEMENT TRANSITION DETAIL FOR
PLACEMENT AT EXISTING PAVEMENT
NOT TO SCALE

NOTE: THERE SHALL BE NO DIRECT PAYMENT FOR THE WORK ASSOCIATED WITH KEYING THE NEW PAVEMENT INTO THE EXISTING PAVEMENT, INCLUDING THE LOWER SAWCUT(S) AND PLACEMENT OF MATERIAL FOR TACK COAT. THE COST SHALL BE INCLUDED IN THE OTHER BID ITEMS. ALL WORK SHALL MEET THE APPROVAL OF THE ENGINEER.



PREFORMED SCOUR HOLE
NOT TO SCALE




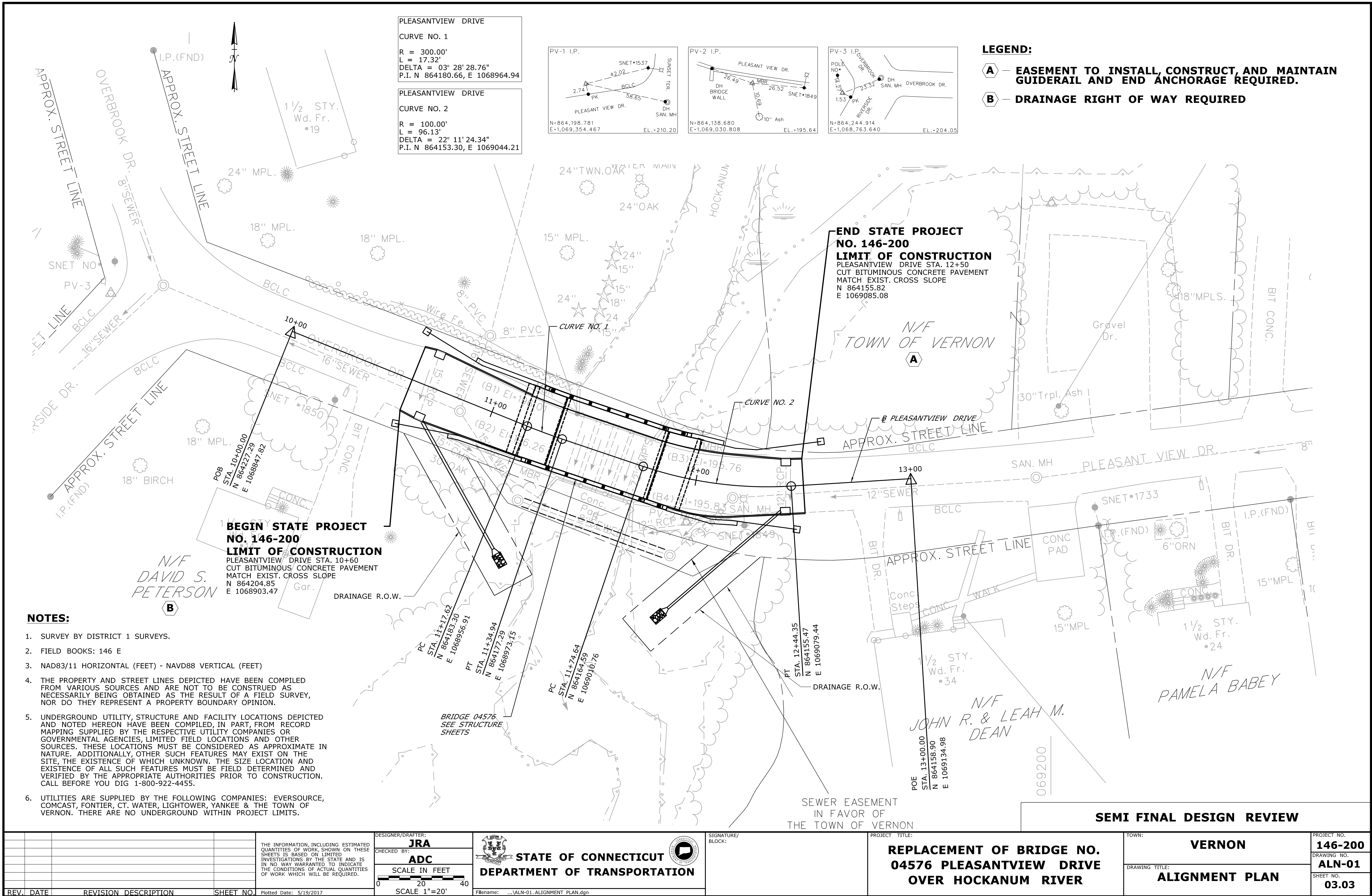
RIPRAP FOR SLOPE PROTECTION
NOT TO SCALE

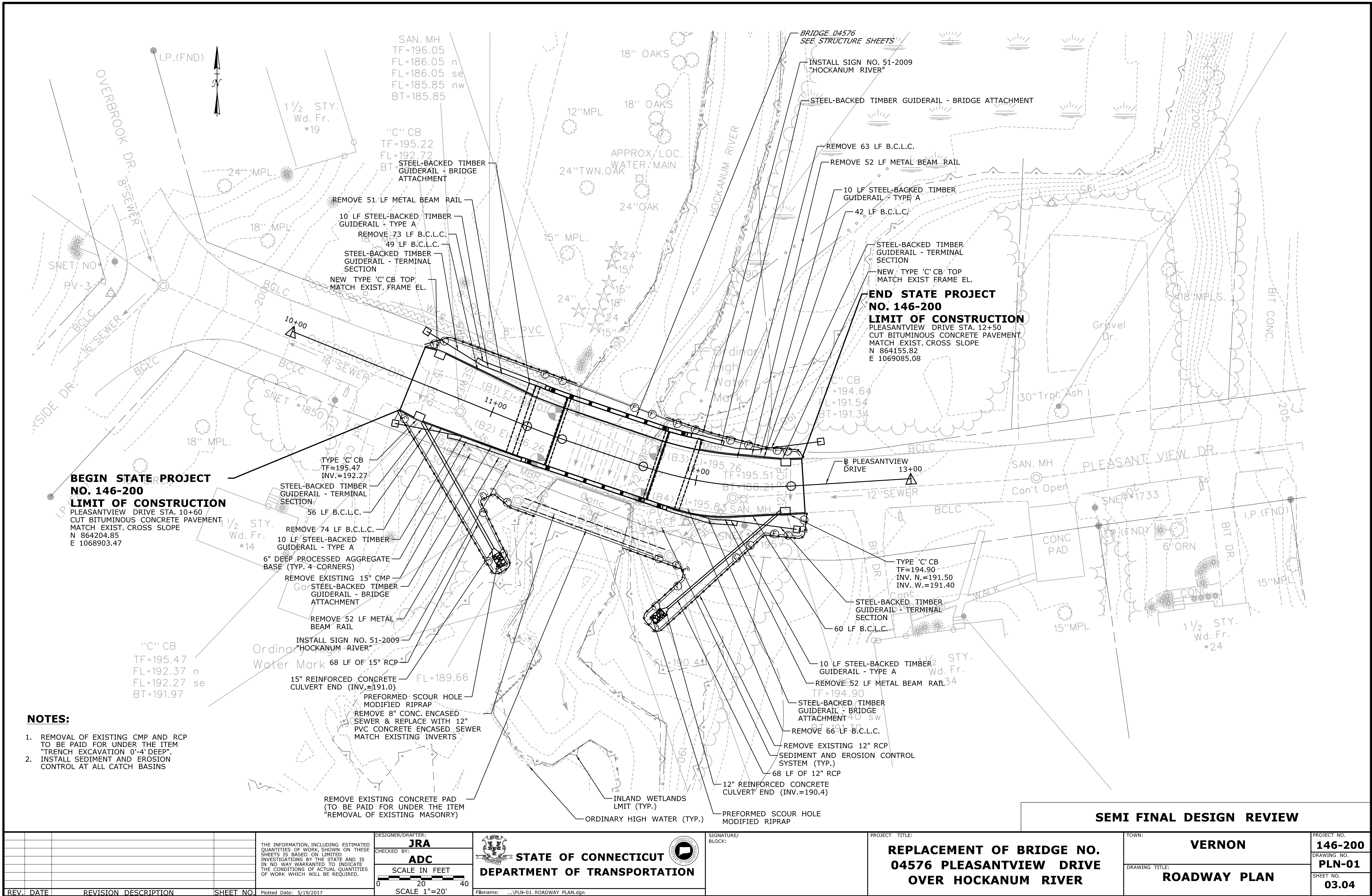
LEGEND

- ① POINT OF APPLICATION OF GRADE
- ② 4" HMA S0.5 TRAFFIC LEVEL 2 (PLACED IN TWO EQUAL LIFTS)
- ③ 4" HMA S1.0 TRAFFIC LEVEL 2 (PLACED IN A SINGLE LIFT)
- ④ 12" SUBBASE
- ⑤ MERRITT PARKWAY GUIDERAIL (AS SHOWN ON PLANS)
- ⑥ 4" TOPSOIL AND TURF ESTABLISHMENT
- ⑦ EROSION CONTROL MATTING
- ⑧ EXISTING GRADE
- ⑨ BITUMINOUS CONCRETE LIP CURBING (AS SHOWN ON PLANS)
- ⑩ 20" DIA. HOLE WITH 6" LIFTS OF PROCESSED AGGREGATE

SEMI FINAL DESIGN REVIEW

			DESIGNER/DRAFTER: JJF		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER	TOWN: VERNON	PROJECT NO. 146-200
			CHECKED BY: ADC						DRAWING NO. TYP-01
			SCALE AS NOTED						SHEET NO. 03.02
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017		Filename: ...\\TYP-01_TYPICAL SECTIONS.dgn		DRAWING TITLE: TYPICAL SECTION	





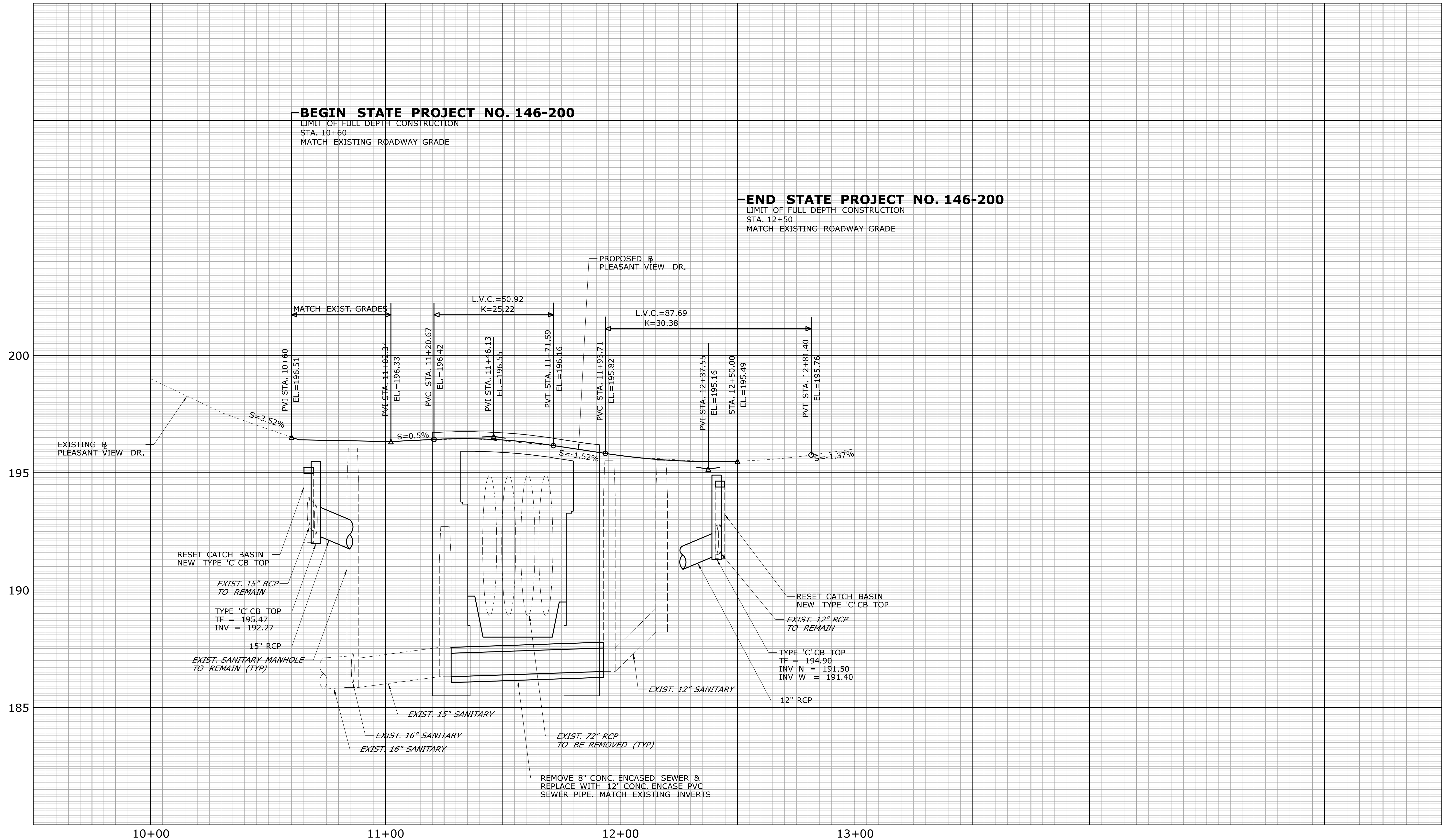


NOTES:

1. REMOVAL OF EXISTING CMP AND RCP TO BE PAID FOR UNDER THE ITEM "TRENCH EXCAVATION 0'-4' DEEP".
2. INSTALL SEDIMENT AND EROSION CONTROL AT ALL CATCH BASINS

SEMI FINAL DESIGN REVIEW

			DESIGNER/DRAFTER: JRA		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER	TOWN: VERNON	PROJECT NO. 146-200	
			CHECKED BY: ADC							DRAWING TITLE: ROADWAY PLAN
			SCALE IN FEET  SCALE 1"=20'							
			Plotted Date: 5/19/2017							
REV.	DATE	REVISION DESCRIPTION	SHEET NO.							



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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.

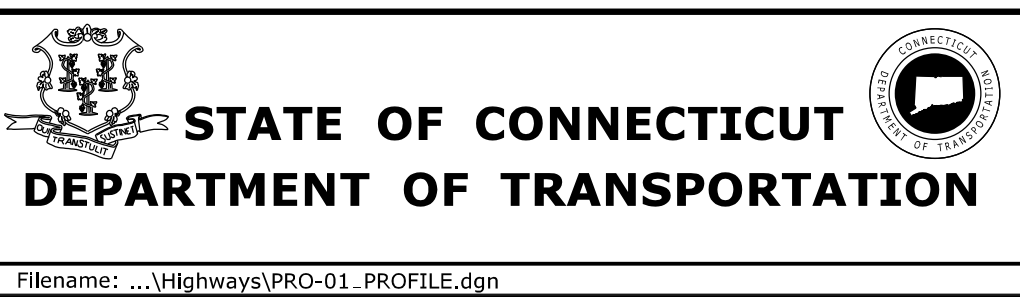
Plotted Date: 5/19/2017

DESIGNER/DRAFTER:
KG

CHECKED BY:
ADC

HORIZ. SCALE IN FEET
0 20 40

VERT. SCALE IN FEET
0 2 4



SIGNATURE/
BLOCK:

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO.
04576 PLEASANTVIEW DRIVE
OVER HOCKANUM RIVER**

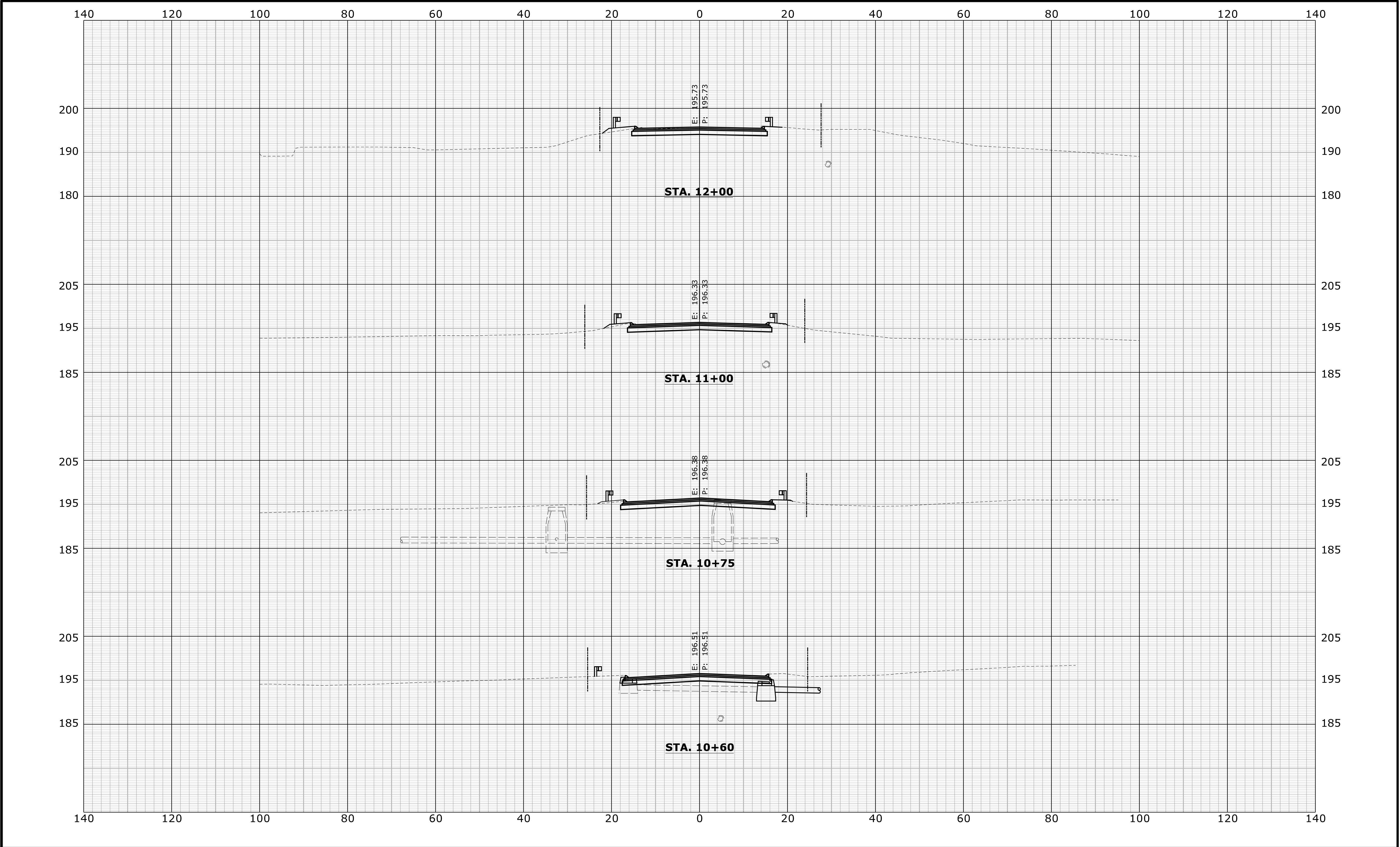
TOWN:
VERNON

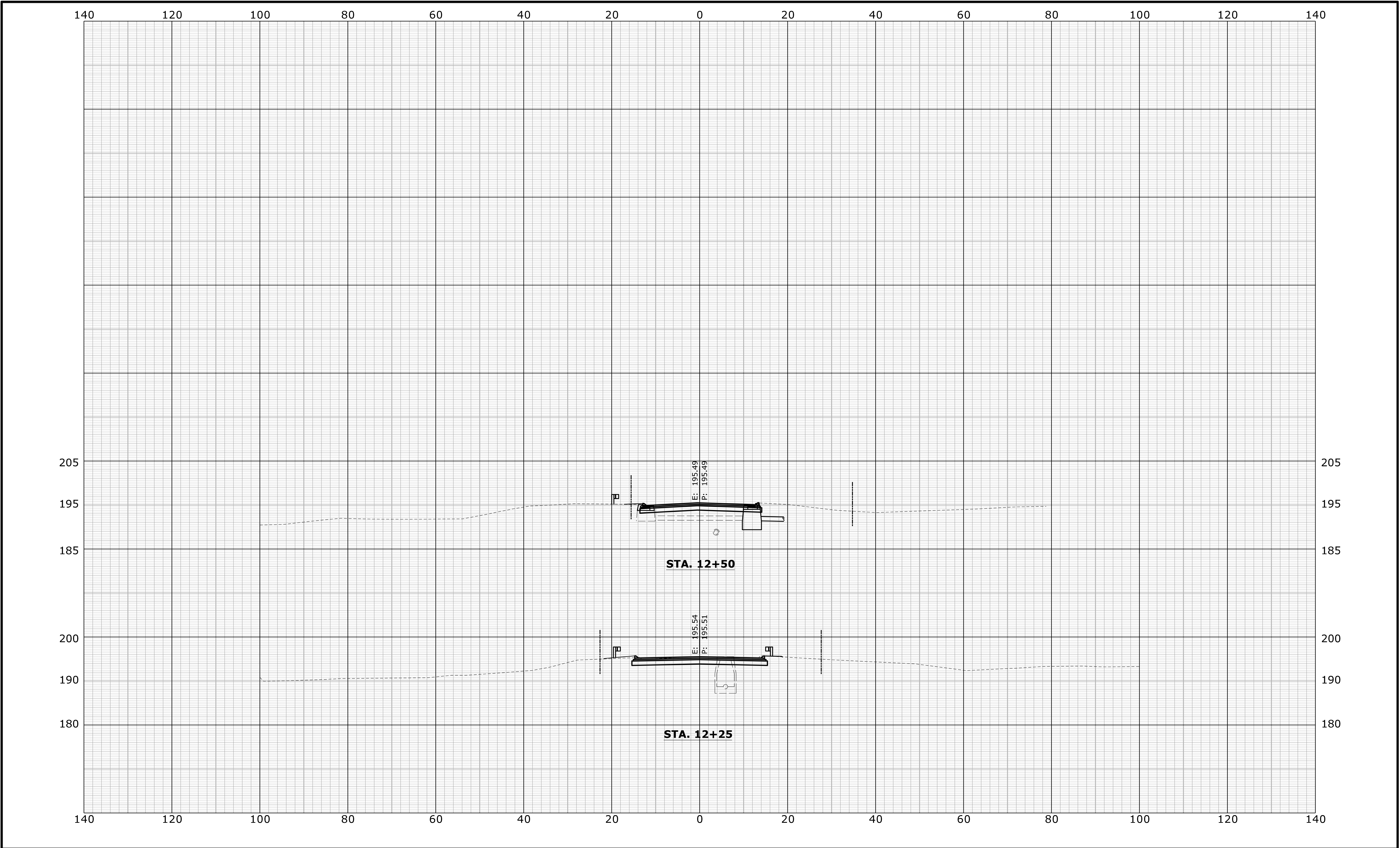
DRAWING TITLE:
PROFILE

PROJECT NO.
146-200

DRAWING NO.
PRO-01

SHEET NO.
03.05






REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017	DESIGNER/DRAFTER: KG CHECKED BY: ADC SCALE IN FEET 0 10 20 SCALE 1" = 10'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...XSC-02_CROSS SECTIONS.dgn	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER	TOWN: VERNON	PROJECT NO. 146-200
										DRAWING NO. XSC-02
										SHEET NO. 03.07
										DRAWING TITLE: CROSS SECTIONS

04 - STRUCTURES


INDEX OF DRAWINGS

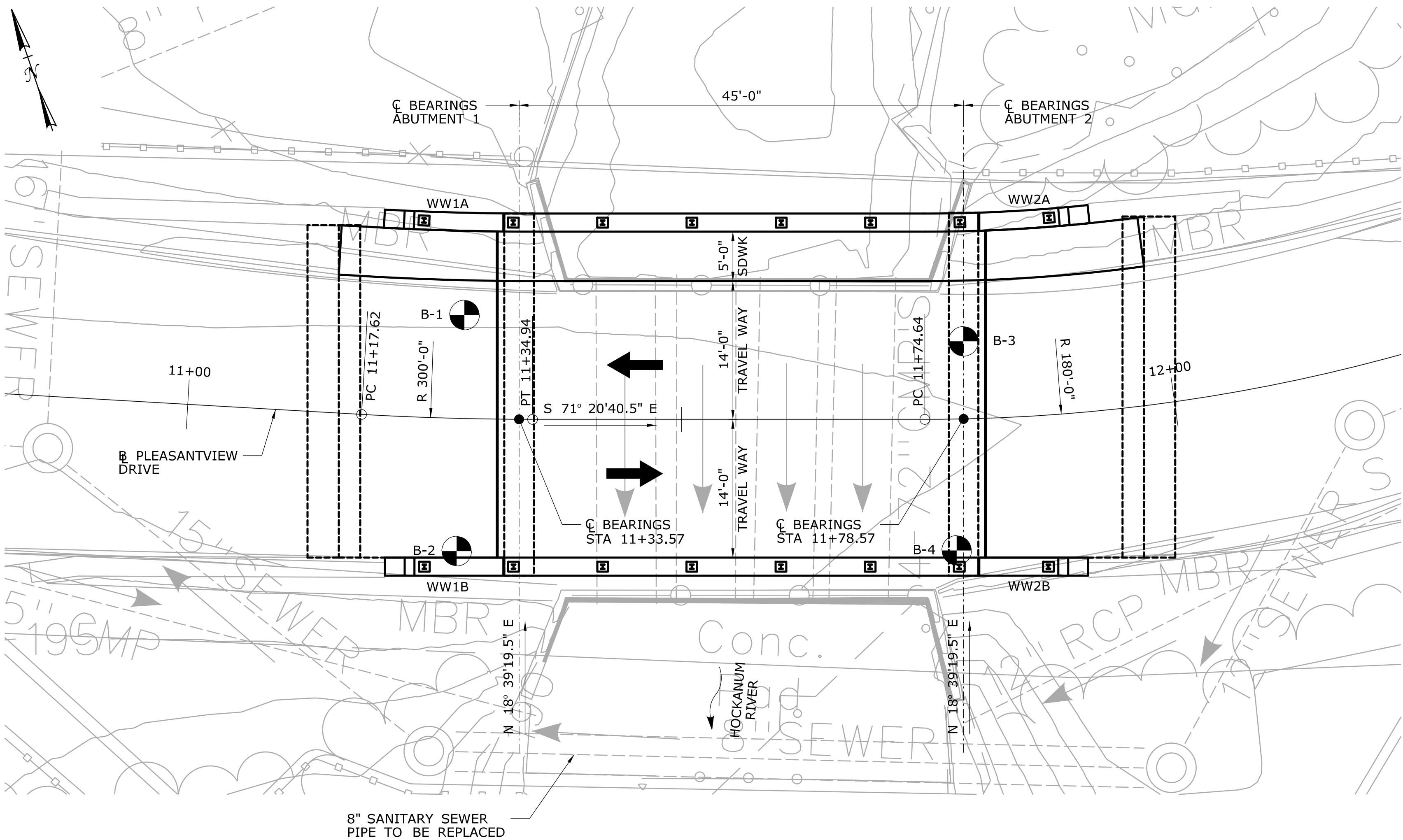
DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-01	INDEX OF DRAWINGS	S-21	PRECAST CONCRETE ELEMENT TOLERANCES
S-02	GENERAL PLAN		
S-03	GENERAL NOTES & QUANTITIES		
S-04	BORING LOGS - 1		
S-05	BORING LOGS - 2		
S-06	DEWATERING PLAN		
S-07	MICROPILE LAYOUT PLAN & DETAILS		
S-08	ABUTMENT 1		
S-09	ABUTMENT 2		
S-10	ABUTMENT DETAILS		
S-11	WINGWALL DETAILS		
S-12	FOOTING DETAILS		
S-13	FRAMING PLAN		
S-14	BEAM DETAILS - 1		
S-15	BEAM DETAILS - 2		
S-16	DECK PLAN		
S-17	DECK ELEVATIONS		
S-18	DECK & JOINT DETAILS		
S-19	APPROACH SLAB DETAILS		
S-20	RAILING DETAILS		



STANTEC CONSULTING
SERVICES INC.
55 CHURCH STREET, SUITE 601
NEW HAVEN, CT 06510

SEMI FINAL DESIGN REVIEW

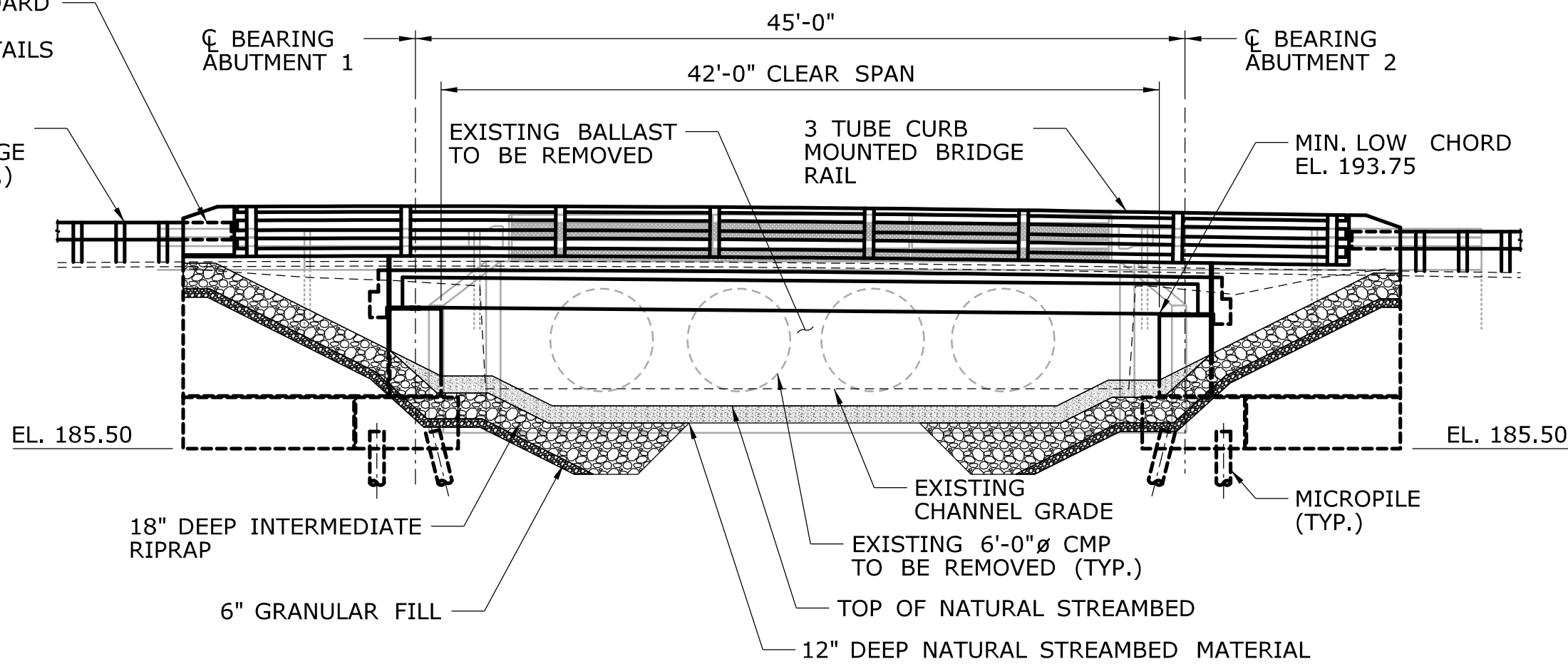
			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: JMB CHECKED BY: AML		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK:		PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER		TOWN: VERNON		PROJECT NO. 146-200	
													DRAWING NO. S-01			
													DRAWING TITLE: INDEX OF DRAWINGS		SHEET NO. 04.01	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017	Filename: ...\\S-01_INDEX OF DRAWINGS.dgn											



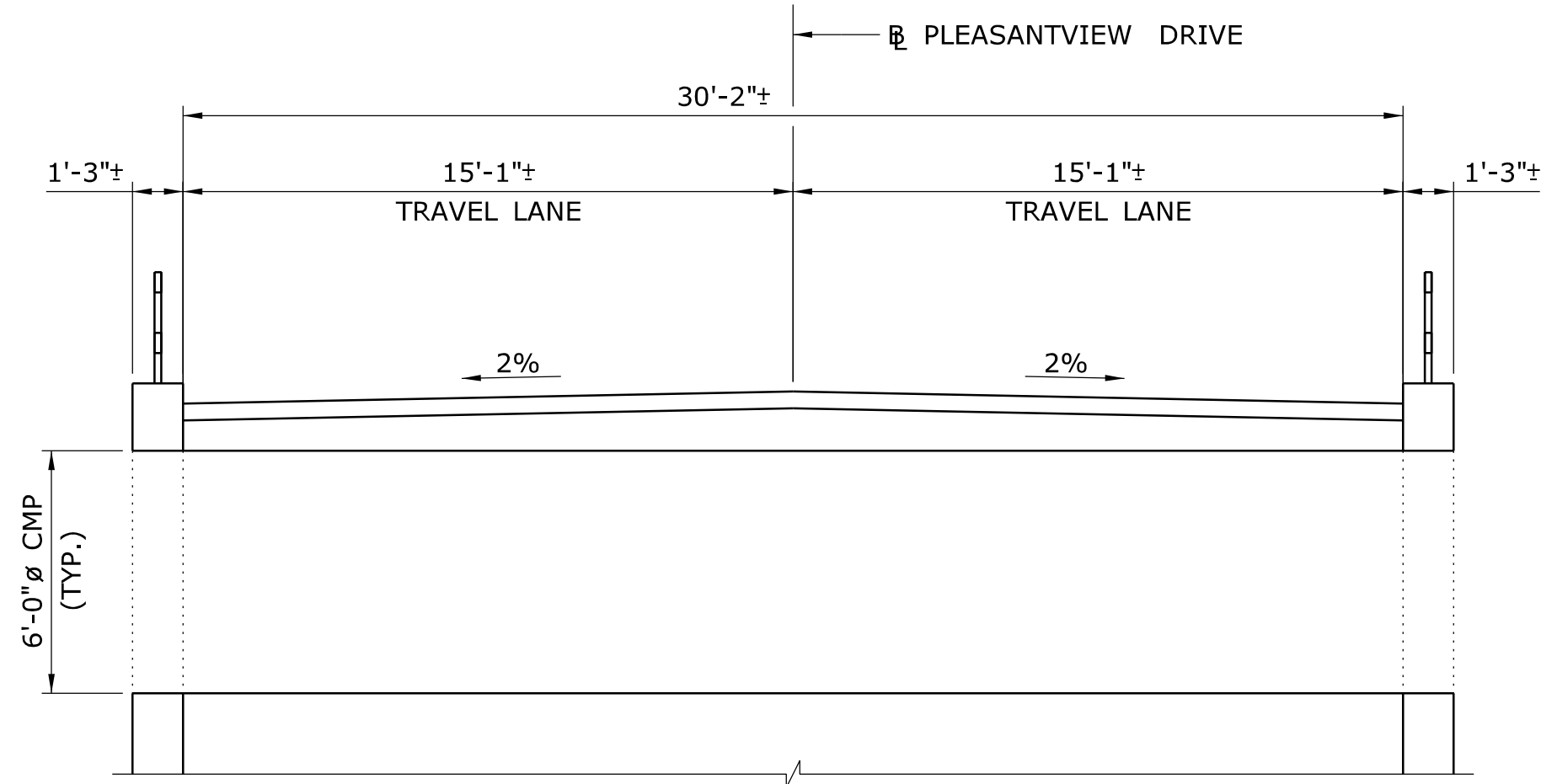
PLAN
SCALE: 1/8" = 1'-0"

SEE CTDOT HIGHWAY STANDARD SHEET HW-910-12A FOR GUIDERAIL ATTACHMENT DETAILS (TYP.)

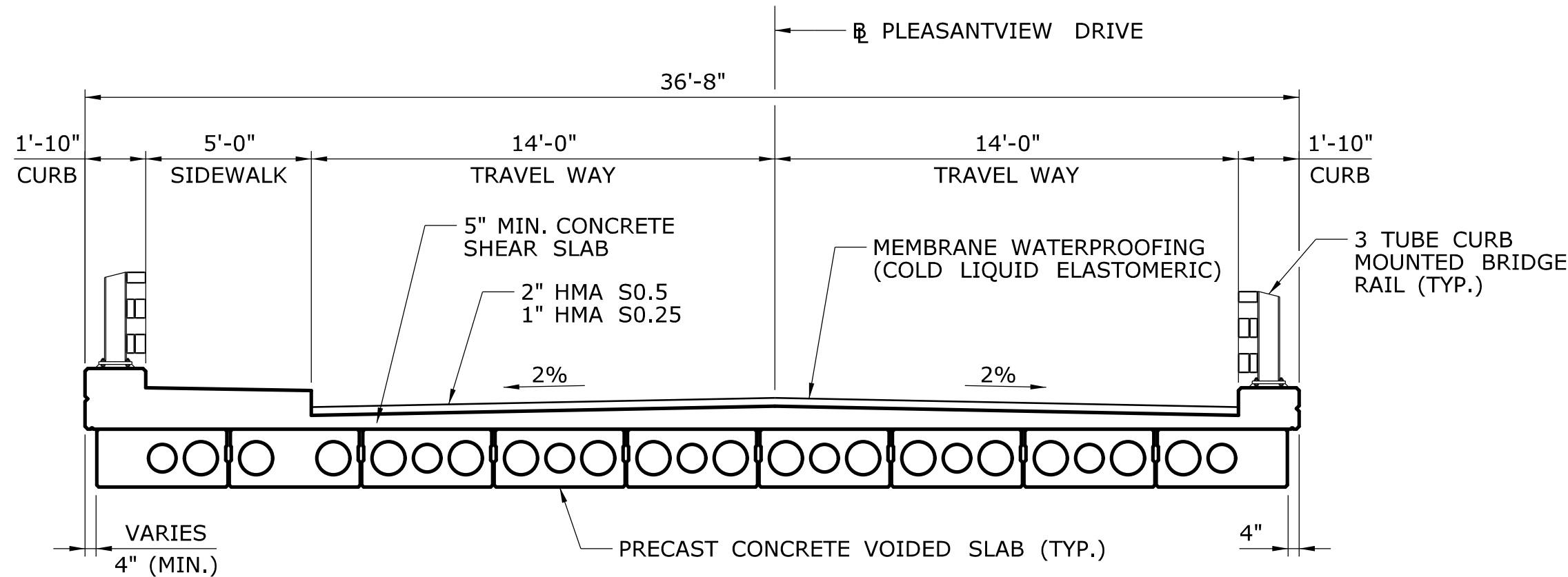
BACKED TIMBER GUIDERAIL - BRIDGE ATTACHMENT (TYP.)



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



EXISTING SECTION
SCALE: 1/4" = 1'-0"



PROPOSED SECTION
SCALE: 1/4" = 1'-0"

HYDRAULIC DATA	
DRAINAGE AREA	XX.XX SQ. MI.
DESIGN FREQUENCY	XXX-YEAR
DESIGN DISCHARGE	XXXX CFS
AVERAGE DAILY FLOW EL	XX CFS
UPSTREAM DESIGN WSE	XX.XX
DOWNSTREAM DESIGN WSE	XX.XX
MAXIMUM SCOUR EL	-X.XX
FREQUENCY	XXX-YEAR
DISCHARGE	XXXX CFS
WORST CASE SUBSTRUCTURE UNIT	XXXX ABUT.

ESTIMATED SHIPPING DATA			
MEMBER	SHIPPING HEIGHT	SHIPPING LENGTH	SHIPPING WEIGHT
TYPICAL GIRDER	XX	XX	XXXXX LBS

CONCRETE DISTRIBUTION		
Superstructure	C.Y.	XXX
Substructure	C.Y.	XXX
Footings	C.Y.	XXX
Total	C.Y.	XXX

INSPECTION OF FIELD WELDS		
METHODS	UNIT	QUANTITY
Ultrasonic	Inch	none
Magnetic Particle	feet	none

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 Bridge Safety and Evaluation.

Component or Detail	Structure Sheet Reference
NONE	-
-	-

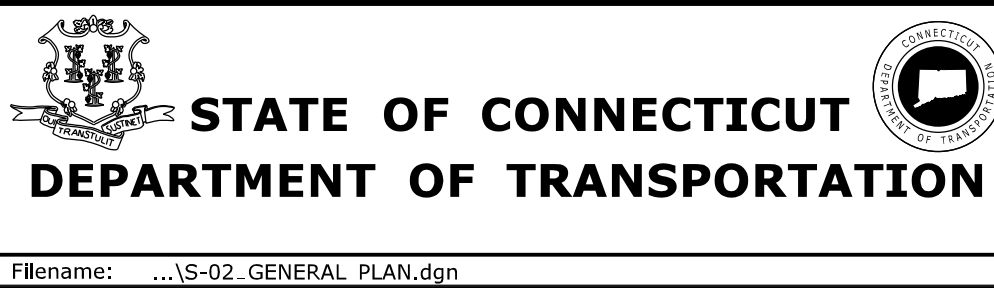
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/19/2017

DESIGNER/DRAFTER:
JMB
CHECKED BY:
AML
SCALE AS NOTED



Filename: ...\\S-02_GENERAL_PLAN.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO.
04576 PLEASANTVIEW DRIVE
OVER HOCKANUM RIVER**

TOWN:

VERNON

DRAWING TITLE:

GENERAL PLAN

PROJECT NO.

146-200

DRAWING NO.

S-02

SHEET NO.

04.02

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

ALLOWABLE DESIGN STRESSES:

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 THE SPECIAL PROVISION "SECTION 6.01 CONCRETE FOR STRUCTURES".

FUTURE PAVING ALLOWANCE: NONE

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

COMPOSITE CONSTRUCTION: NO TEMPORARY INTERMEDIATE SUPPORTS SHALL BE USED DURING THE PLACING AND SETTING OF THE CONCRETE DECK.

PRECAST SUBSTRUCTURE ELEMENTS: SEE SPECIAL PROVISIONS FOR
PRECAST SUBSTRUCTURE ELEMENT CONCRETE REQUIREMENTS.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EPOXY COATED REINFORCING BARS; ALL REINFORCEMENT IN THE SUPERSTRUCTURE INCLUDING THE CONCRETE DECK AND THE PARAPETS SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED. ALL REINFORCEMENT IN THE TOP MAT OF THE APPROACH SLABS AND STEMS OF SLEEPER SLABS SHALL BE EPOXY COATED.

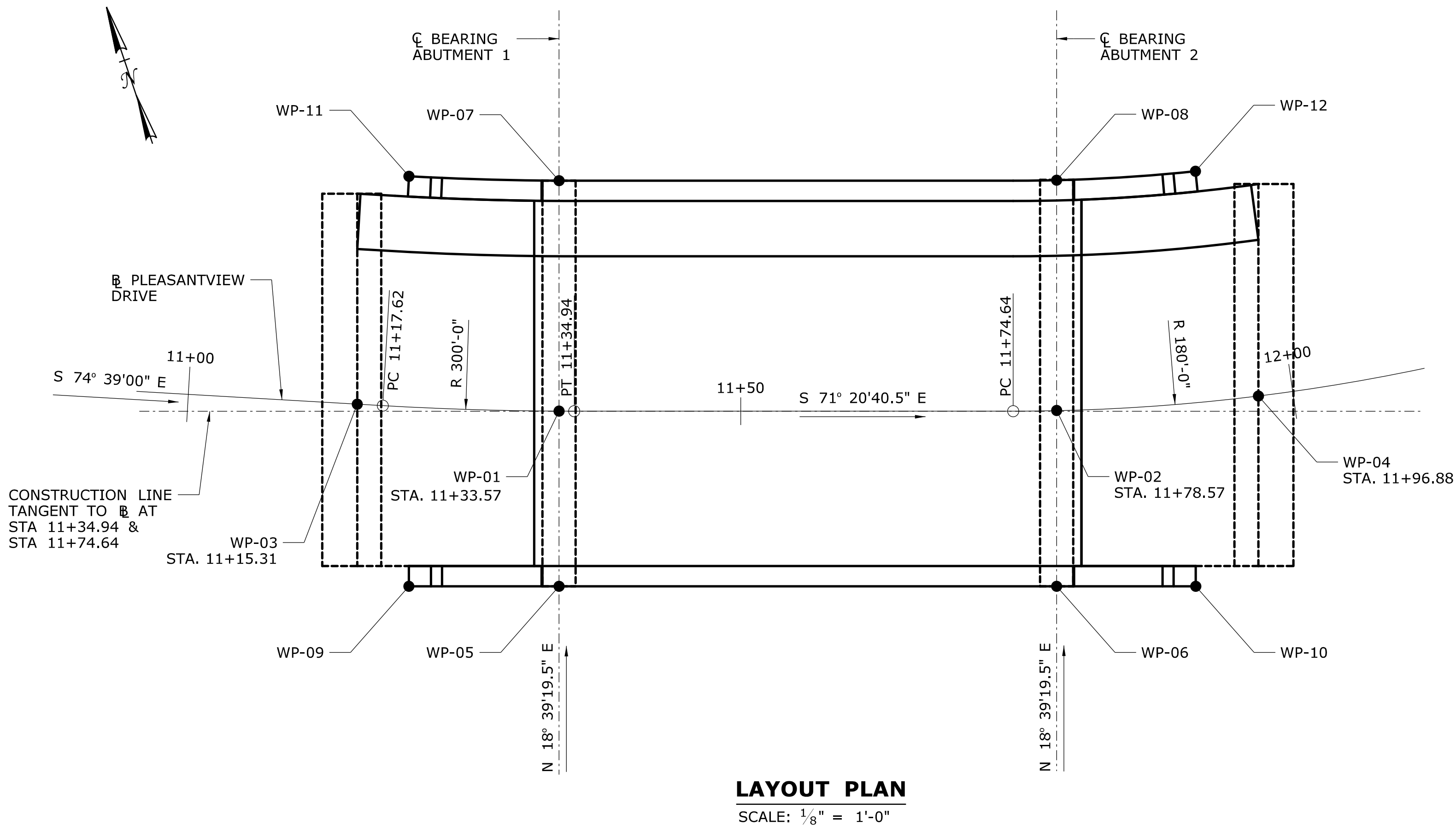
CLOSED CELL ELASTOMER: THE COST OF FURNISHING AND INSTALLING
CLOSED CELL ELASTOMER SHALL BE INCLUDED IN THE COST OF THE
ITEM "CLASS 'F' CONCRETE".

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


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

TABLE OF BRIDGE QUANTITIES		
ITEM	UNIT	QUANTITY
STRUCTURE EXCAVATION - EARTH (EXCLUDING COFFERDAM AND DEWATERING)	CY	XXX
STRUCTURE EXCAVATION - ROCK (EXCLUDING COFFERDAM AND DEWATERING)	CY	XXX
COFFERDAM AND DEWATERING	LF	XXX
HANDLING WATER	LS	XXX
COMPACTED GRANULAR FILL	CY	XXX
PERVIOUS STRUCTURAL BACKFILL	CY	XXX
HMA S0.5	TON	XXX
HMA S0.25	TON	XXX
REMOVAL OF EXISTING CULVERT (SITE NO. 1)	LS	XXX
PRESTRESSED DECK UNITS (4'-0" X 1'-9")	LF	XXX
ASPHALTIC PLUG EXPANSION JOINT SYSTEM	SY	XXX
ELASTOMERIC BEARING PADS	EA	XXX
PRECAST APPROACH SLAB	SY	XXX
CLASS 'F' CONCRETE	CY	XXX
PRECAST SUBSTRUCTURE ELEMENTS	CY	XXX
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	XXX
DEFORMED STEEL BARS - EPOXY COATED	LB	XXX
MICROPILES	EA	XXX
VERIFICATION TEST FOR MICROPILES	EA	XXX
PROOF TEST FOR MICROPILES	EA	XXX
MIRCOPILE LENGTH ADJUSTMENT	LF	XXX
MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	SY	XXX
DAMPROOFING	SY	XXX
3 TUBE CURB MOUNTED BRIDGE RAIL	LF	XXX
REMOVAL OF EXISTING MASONRY	CY	XXX

WORKING POINTS			
POINT	LOCATION	NORTH	EAST
WP-01	☐ BRG. WEST ABUT. WB - ☐ ROAD	XXXXXX.XX	XXXXXX.XX
WP-02	☐ BRG. EAST ABUT. WB - ☐ ROAD	XXXXXX.XX	XXXXXX.XX
WP-03	END WEST APPROACH SLAB - ☐ ROAD	XXXXXX.XX	XXXXXX.XX
WP-04	END EAST APPROACH SLAB - ☐ ROAD	XXXXXX.XX	XXXXXX.XX
WP-05	☐ BEARING ABUTMENT 1 - SOUTH EDGE	XXXXXX.XX	XXXXXX.XX
WP-06	☐ BEARING ABUTMENT 2 - SOUTH EDGE	XXXXXX.XX	XXXXXX.XX
WP-07	☐ BEARING ABUTMENT 1 - NORTH EDGE	XXXXXX.XX	XXXXXX.XX
WP-08	☐ BEARING ABUTMENT 1 - NORTH EDGE	XXXXXX.XX	XXXXXX.XX
WP-09	END OF WINGWALL 1A - OUTSIDE FACE	XXXXXX.XX	XXXXXX.XX
WP-10	END OF WINGWALL 2A - OUTSIDE FACE	XXXXXX.XX	XXXXXX.XX
WP-11	END OF WINGWALL 1B - OUTSIDE FACE	XXXXXX.XX	XXXXXX.XX
WP-12	END OF WINGWALL 2B - OUTSIDE FACE	XXXXXX.XX	XXXXXX.XX



SEMI FINAL DESIGN REVIEW

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									DRAWING NO. S-03	
									SHEET NO. 04.03	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017		Filename: ...\\S-03- GENERAL NOTES AND QUANTITIES.dgn				

B-1

(603) 437-1610		New England Boring Contractors		Fax: (603) 437-0034	
		P.O. Box 165			
		Derry, NH 03038			
		E-Mail: nebc@neboring.com			
Boring # B-1		Project: CJM – test Drilling (Vernon)		Project # C05521	
Project Address:		City: Vernon		State: CT Zip:	
Pleasant View Drive over Hockanum River					
Date Start: 8/19/16		Date End: 8/19/16		Location: See Plan	
Casing: HW		Sampler: S/S		Sampler:	
Size: 4"		Size:		1 3/8 in. I.D.	
		Fall:		30 in.	
GROUNDWATER OBSERVATION					
Date: 8/19/16	Depth: 6'9"		Casing:		Stabilization Period
DP	S#	DEPTH	PEN	REC	BLOWS/6"
-	-	-	-	-	-
-	S-1	1' – 3'	24"	14"	12-12-16-18
-	-	-	-	-	4"
-	-	-	-	-	ASPHALT
-	-	-	-	-	Dry, medium dense, brown FINE TO COARSE SAND, some fine gravel, trace inorganic silt, occasional cobbles.
5'0"	S-2	5' – 7'	24"	14"	10-8-5-7
-	-	-	-	-	~6'
-	-	-	-	-	Dry, medium dense, brown FINE TO COARSE SAND, some fine gravel, trace inorganic silt, occasional cobbles.
-	-	-	-	-	Dry, medium dense, brown FINE SAND, some inorganic silt.
-	-	-	-	-	9'9"
10'0"	S-3	10' – 10'5"	5"	4"	100/5"
-	-	-	-	-	Very weathered SANDSTONE.
-	-	-	-	-	Advanced roller bit to 11' and began coring.
-	C-1	11' – 16'	60"	44"	3-3-3-3-3
-	-	-	-	-	Very weathered, very fractured, red/brown SANDSTONE.
-	-	-	-	-	Percent Recovery = 73%
15'0"	-	-	-	-	RQD = 0%
-	C-2	16' – 21'	60"	60"	3-4-4-4-4
-	-	-	-	-	Slightly weathered, very fractured, red/brown SANDSTONE.
-	-	-	-	-	Percent Recovery = 100%
-	-	-	-	-	RQD = 0%
20'0"	-	-	-	-	-
-	C-3	21' – 26'	60"	60"	4-4-4-4-4
-	-	-	-	-	Moderately fractured, red/brown SANDSTONE.
-	-	-	-	-	Percent Recovery = 100%
-	-	-	-	-	RQD = 8%
25'0"	-	-	-	-	26'
-	-	-	-	-	Bottom of Exploration = 26'
-	-	-	-	-	
-	-	-	-	-	
30'0"	-	-	-	-	
-	-	-	-	-	
Driller: Trent Roe		Helpers: Orrin Cone			Inspector: Mike Wood
Remarks: Coring times = minutes per foot.					
S/#: Sample		PEN: Penetration		REC: Recovery	
				S/C: Strata Change	

B-2

(603) 437-1610		New England Boring Contractors P.O. Box 165 Derry, NH 03038 E-Mail: nebc@neboring.com			Fax: (603) 437-0034	
Boring # B-2		Project: CJM – test Drilling (Vernon)			Project # C05521	
Project Address: Pleasant View Drive over Hockanum River		City: Vernon		State: CT Zip:		
Date Start: 8/22/16		Date End: 8/22/16		Location: See Plan		
Casing: HW				Sampler: S/S		
Size: 4"				Size: 1 3/8 in. I.D. Fall: 30 in.		
GROUNDWATER OBSERVATION						
Date: 8/22/16	Depth: ~8'		Casing:		Stabilization Period	
DP	S#	DEPTH	PEN	REC	BLOWS/6"	
-	S-1	1' – 3'	24"	14"	29-42-33-28	
-	-	-	-	-	ASPHALT	
-	-	-	-	-	Dry, very dense, brown FINE TO MEDIUM SAND, little fine to coarse gravel, trace inorganic silt.	
5'0"	S-2	5' – 7'	24"	16"	10-11-7-10	
-	-	-	-	-	Dry, medium dense, brown FINE TO MEDIUM SAND, little fine to coarse gravel, trace inorganic silt.	
-	-	-	-	-	RQD = 0%	
-	-	-	-	-	-	
10'0"	S-3	10' – 10'10"	10"	6"	49-50/4"	
-	-	-	-	-	10'10"	
-	-	-	-	-	Dry, medium dense, brown FINE TO MEDIUM SAND, little fine to coarse gravel, trace inorganic silt.	
-	C-1	10'10"	60"	32"	3-3-4-4-4	
-	-	15'10"	-	-	BEDROCK	
15'0"	-	-	-	-	Percent Recovery = 53%	
-	C-2	15'10"	60"	60"	4-4-4-4-4	
-	-	20'10"	-	-	BEDROCK	
-	-	-	-	-	Percent Recovery = 100%	
-	-	-	-	-	RQD = 0%	
20'0"	-	-	-	-	-	
-	C-3	20'10"	60"	48"	4-4-4-4-4	
-	-	25'10"	-	-	BEDROCK	
-	-	-	-	-	Percent Recovery = 100%	
-	-	-	-	-	RQD = 0%	
25'0"	-	-	-	-	25'10"	
-	-	-	-	-	Bottom of Exploration = 25'10"	
-	-	-	-	-	-	
30'0"	-	-	-	-	-	
-	-	-	-	-	-	
Driller: Trent Roe		Helpers:			Inspector: Mike Wood	
Remarks: Coring times = minutes per foot.						
S/#: Sample		PEN: Penetration		REC: Recovery		
				S/C: Strata Change		

B-3

(603) 437-1610		New England Boring Contractors P.O. Box 165 Derry, NH 03038 E-Mail: nebc@neboring.com			Fax: (603) 437-0034		
Boring # B-3		Project: CJM – test Drilling (Vernon)			Project # C05521		
Project Address: Pleasant View Drive over Hockanum River		City: Vernon			State: CT Zip:		
Date Start: 8/19/16		Date End: 8/19/16			Location: See Plan		
Casing: HW				Sampler: S/S		Sampler:	
Size: 4"				Size:		1 3/8 in. I.D.	
				Fall:		30 in.	
GROUNDWATER OBSERVATION							
Date: 8/19/16		Depth: ~6'9"		Casing:		Stabilization Period	
DP	S#	DEPTH	PEN	REC	BLOWS/6"	SAMPLE DESCRIPTION	
-	-	-	-	-	-	5"	ASPHALT
-	S-1	1' – 3'	24"	12"	12-14-10-8		Dry, medium dense, red/brown FINE TO COARSE SAND, some gravel, trace silt.
5'0"	S-2	5' – 7'	24"	10"	3-4-1-1	6"	Dry, loose, red/brown FINE TO COARSE SAND, some gravel, trace silt.
-	-	-	-	-	-	9'6"	Wet, very loose, gray/black ORGANIC SILT, some fine sand.
-	-	-	-	-	-		
10'0"	S-3	10' – 10'7"	7"	6"	50-50/1"		Very weathered SANDSTONE. Advanced roller bit to 11' and began coring.
-	C-1	11' – 16'	60"	60"	3-4-4-4-4		Very weathered and fractured, red/brown SANDSTONE. Percent Recovery = 100% RQD = 0%
15'0"	-	-	-	-	-		
-	C-2	16' – 21'	60"	60"	3-3-3-3-3		Very fractured, red/brown SANDSTONE. Percent Recovery = 100% RQD = 0%
20'0"	-	-	-	-	-		
-	C-3	21' – 26'	60"	56"	2-2-3-3-4		Moderately fractured, red/brown SANDSTONE. Percent Recovery = 93% RQD = 34%
-	-	-	-	-	-	26'0"	
25'0"	-	-	-	-	-		Bottom of Exploration = 26'0"
-	-	-	-	-	-		
-	-	-	-	-	-		
30'0"	-	-	-	-	-		
-	-	-	-	-	-		
Driller: Trent Roe			Helpers:			Inspector: Mike Wood	
Remarks: Coring times = minutes per foot.							
S/#: Sample			PEN: Penetration		REC: Recovery		S/C: Strata Change

SEMI FINAL DESIGN REVIEW

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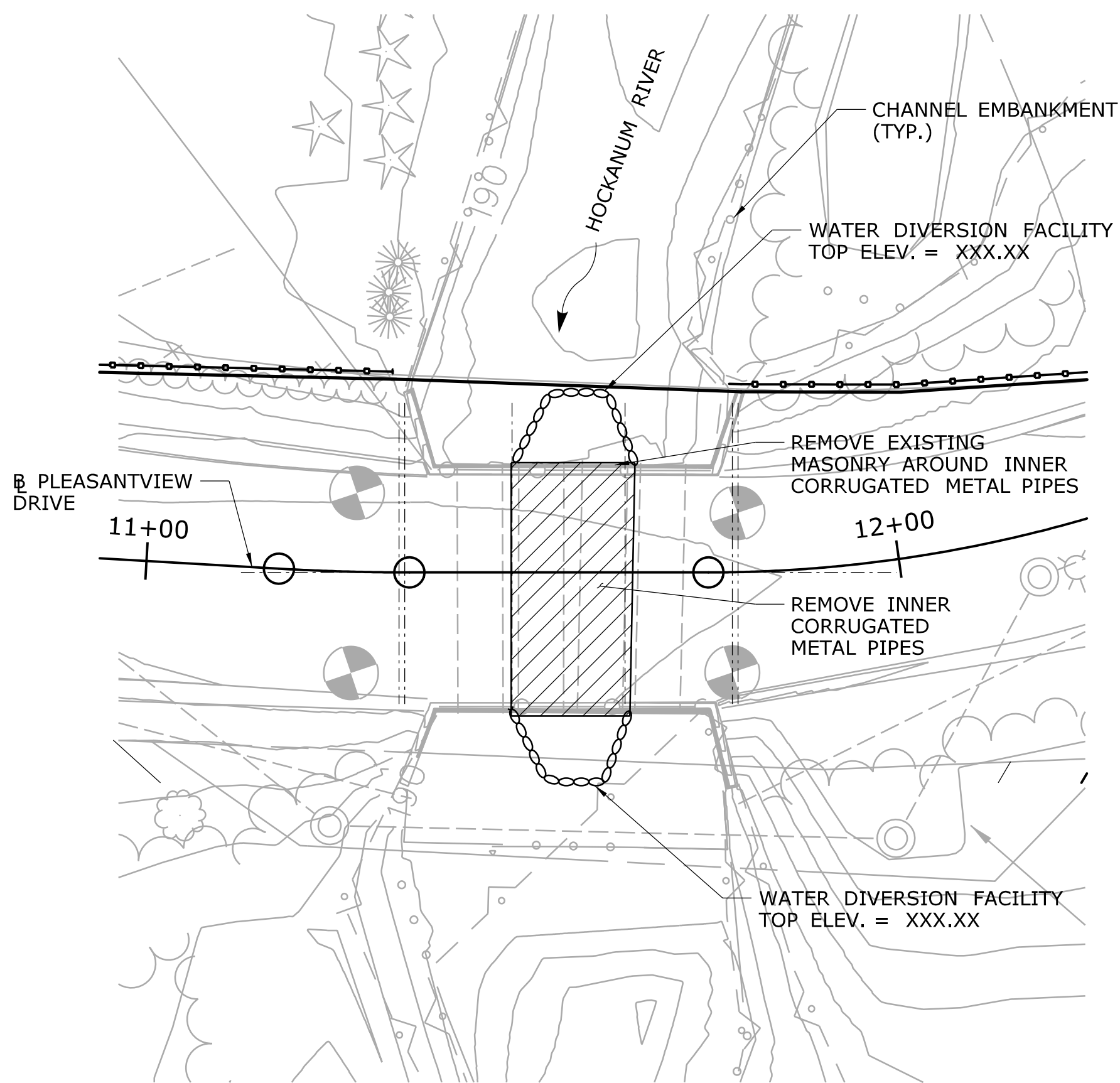
(603) 437-1610		New England Boring Contractors		Fax: (603) 437-0034	
P.O. Box 165 Derry, NH 03038 E-Mail: nebc@neboring.com					
Boring # B-4		Project: CJM – test Drilling (Vernon)		Project # C05521	
Project Address: Pleasant View Drive over Hockanum River		City: Vernon		State: CT Zip:	
Date Start: 8/22/16		Date End: 8/22/16		Location: See Plan	
Casing: HW		Sampler: S/S		Sampler: Size: 1 3/8 in. I.D. Fall: 30 in.	
Size: 4"					
GROUNDWATER OBSERVATION					
Date: 8/22/16	Depth: ~8'		Casing:		Stabilization Period
DP	S#	DEPTH	PEN	REC	BLOWS/6"
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
5'0"	S-2	5' – 7'	24"	16"	15-18-26-31
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
10'0"	S-3	10' – 10'2"	2"	0"	50/2"
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
15'0"	C-2	16' – 21'	60"	50"	3-3-3-4-4
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
20'0"	C-3	21' – 26'	60"	54"	4-4-4-4-4
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
25'0"	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
30'0"	-	-	-	-	-
-	-	-	-	-	-
Driller: Orrin Cone		Helpers:		Inspector: Mike Wood	
Remarks: Coring times = minutes per foot.					
S/#: Sample		PEN: Penetration		REC: Recovery	
				S/C: Strata Change	

B-5

Driller: T. Roe		Connecticut DOT Boring Report		Hole No.: B-5						
Inspector: M. Kenney		Town: Vernon		Stat./Offset:						
Engineer: T Dykstra		Project No.: 146-200		Northing: --						
Start Date: 3-23-2017		Route No.: Pleasantview Drive		Easting: --						
Finish Date: 3-23-2017		Bridge No.: 04576		Surface Elevation: 196.5						
Project Description: Pleasantview Drive over Hockanum River										
Casing Size/Type: 4" HW / 4" HSA		Sampler Type/Size: Split Spoon 2 in		Core Barrel Type: Triple Tube						
Hammer Wt.: 300 lb Fall: 24 in.		Hammer Wt.: 140 lbs Fall: 30 in								
Groundwater Observations: 7 feet b.g.s.										
Depth (ft)	Sample Type/No.	SAMPLES			Casing Blows per 6"	Generalized Strata Description	Material Description and Notes	Well Construction	Elevation (ft)	
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)						RQD %
0						ASPHALT	0-0.33 Ft: ASPHALT (4 in.)			
-	S-1	28	27	23	20	24	10	Brown c-f SAND, some m-f gravel, trace silt.	195	
-	S-2	6	7	8	9	24	9	Brown, m-f SAND, some f gravel, trace medium gravel, little c sand, trace silt.		
5	S-3	7	9	7	9	24	10	Brown, c-f SAND and m-f gravel, little silt	190	
-	S-4	2	4	14	16	24	9	Grayish brown, f SAND and silt, wet		
10	S-5	17	27	28	100/4"	20	19	Brown, c-m SAND and m-f gravel, little f sand, trace silt, saturated		
-	C-1					60	15	0	HIGHLY weathered, intensely fractured, reddish brown, medium to coarse grained, SANDSTONE.	185
15	C-2					60	58	0	Medium strong, slightly weathered, highly fractured, reddish brown, medium to coarse grained, SANDSTONE. Joints are dipping at less than 5 degrees.	180
20	C-3					60	60	42	Medium strong, slightly weathered, highly fractured, reddish brown, medium to coarse grained, SANDSTONE. Joints are dipping at less than 5 degrees.	175
25									END OF BORING 26ft	170
30										
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: 10.8 ft		Rock: 15.2 ft						Sheet 1 of 1		
No. of Soil Samples: 5		No. of Core Runs: 3						SM-001-M REV. 1/02		

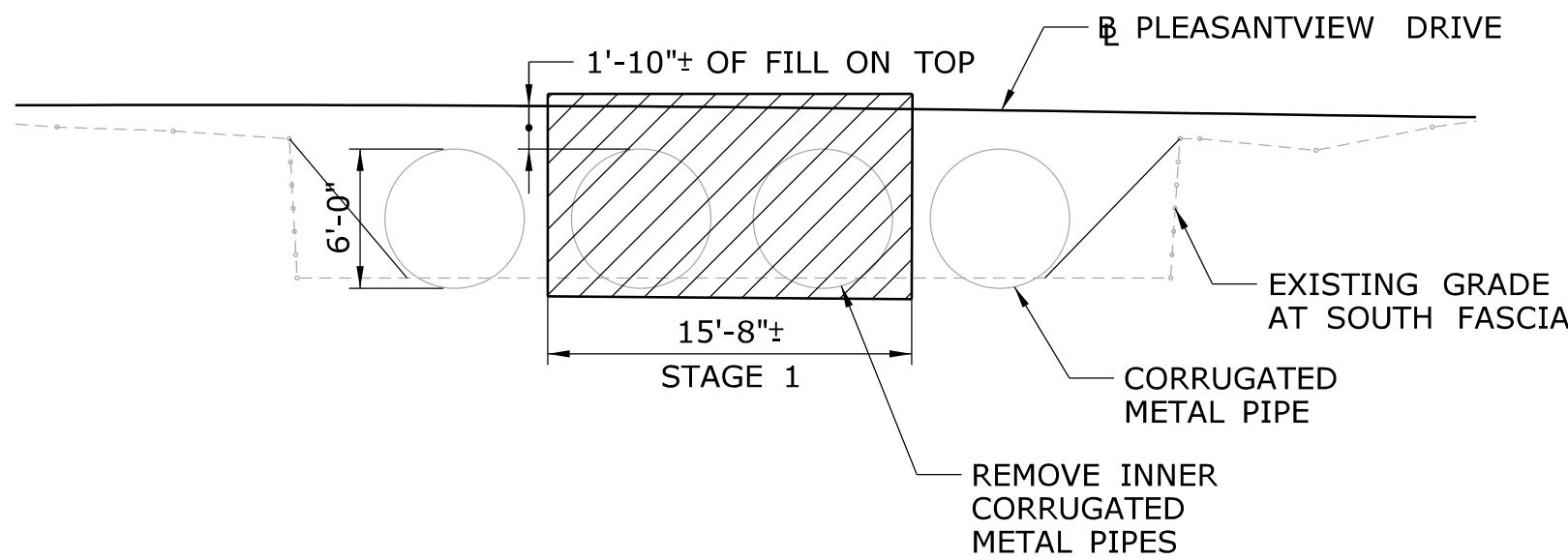
SEMI FINAL DESIGN REVIEW

			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: JMB CHECKED BY: AML SCALE AS NOTED		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\S-05.BORING LOGS - 2.dgn		SIGNATURE/ BLOCK:		PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER		TOWN: VERNON DRAWING TITLE: BORING LOGS - 2		PROJECT NO. 146-200 DRAWING NO. S-05 SHEET NO. 04.05		
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017													



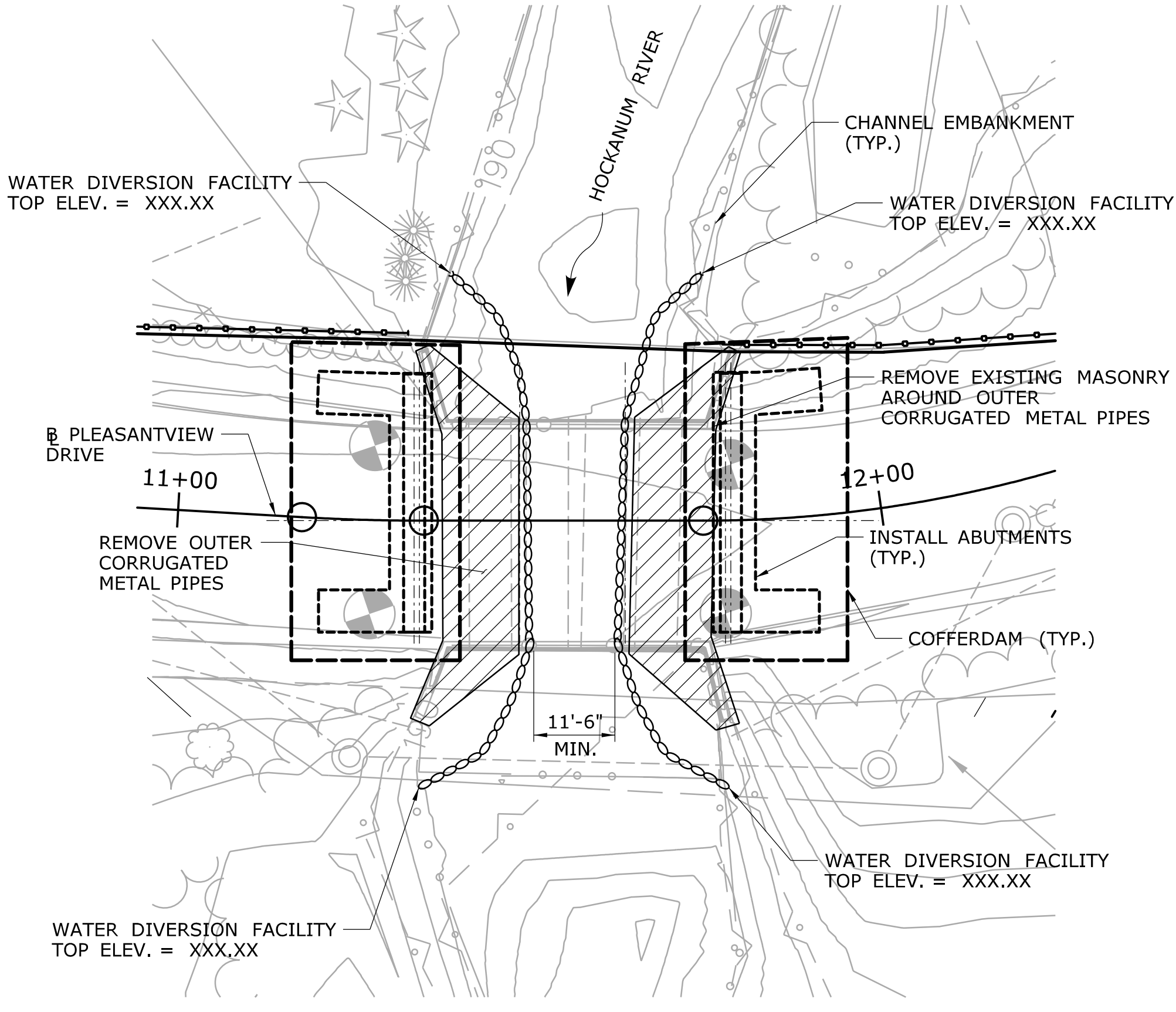
STAGE 1A PLAN

SCALE: 1/16" = 1'-0"



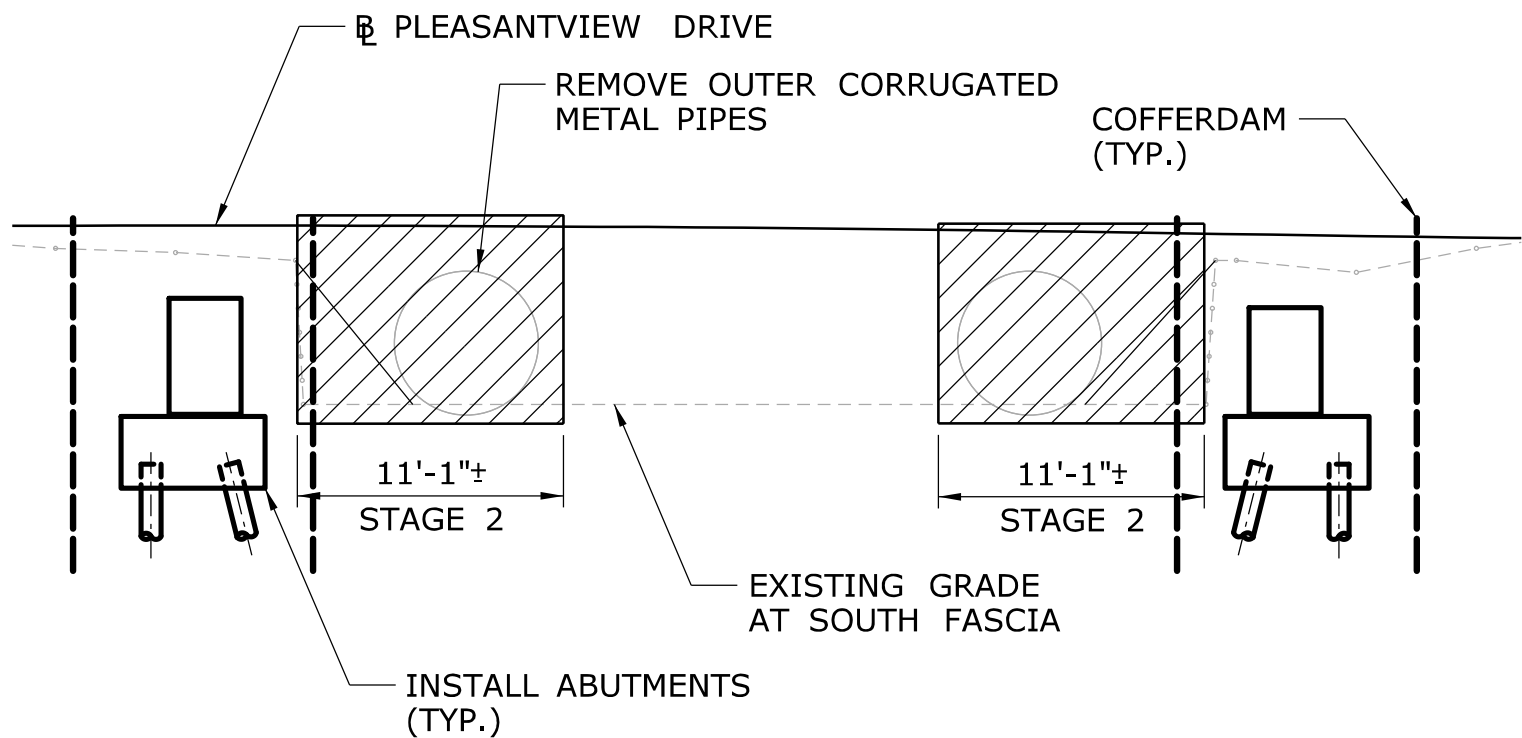
EXISTING SECTION - STAGE 1A

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



STAGE 1B PLAN

SCALE: 1/16" = 1'-0"



EXISTING SECTION - STAGE 1B

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

TEMPORARY HYDRAULIC DATA	
AVERAGE DAILY FLOW	XX CFS
AVERAGE SPRING FLOW	XX CFS
2-YEAR FREQUENCY DISCHARGE	XXX CFS
TEMPORARY DESIGN DISCHARGE	XXX CFS
TEMPORARY DESIGN FREQUENCY	XX-YEAR
TEMPORARY WATER SURFACE EL. UPSTREAM	XXX.XX FT
TEMPORARY WATER SURFACE EL. DOWNSTREAM	XXX.XX FT

SUGGESTED SEQUENCE OF CONSTRUCTION

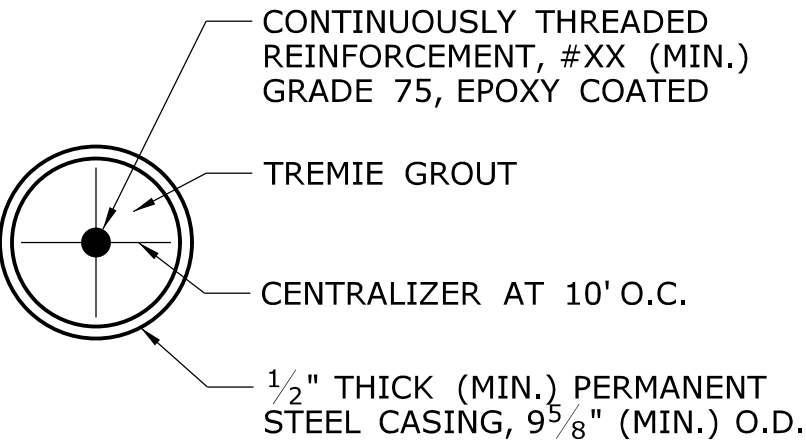
- STAGE 1A:
1. INSTALL WATER DIVERSION FACILITY AROUND THE TWO INNER CORRUGATED METAL PIPES.
 2. DEWATER WORK AREA BEHIND WATER DIVERSION FACILITY AS REQUIRED FOR CONSTRUCTION.
 3. REMOVE FILL ABOVE CORRUGATED METAL PIPES.
 4. REMOVE TWO INNER CORRUGATED METAL PIPES BEHIND WATER DIVERSION FACILITY.
 5. ESTABLISH PROPOSED CHANNEL GRADING WITHIN DEWATERED WORK AREA.
 6. REMOVE WATER DIVERSION FACILITY.
- STAGE 1B:
1. INSTALL WATER DIVERSION FACILITY AROUND THE WINGWALLS AND OUTER CORRUGATED METAL PIPES.
 2. DEWATER WORK AREA BEHIND WATER DIVERSION FACILITY AS REQUIRED FOR CONSTRUCTION.
 3. REMOVE EXISTING MASONRY SURROUNDING ALL CORRUGATED METAL PIPES.
 4. REMOVE OUTER CORRUGATED METAL PIPES BEHIND WATER DIVERSION FACILITY, INSTALL MICROPILES, AND INSTALL PRECAST ABUTMENTS AND WINGWALLS.
 5. ESTABLISH PROPOSED CHANNEL GRADING WITHIN DEWATERED WORK AREA.
 6. INSTALL COFFERDAM AROUND PROPOSED ABUTMENTS.
 7. INSTALL MICROPILES.
 8. CONSTRUCT PROPOSED ABUTMENTS.
 9. REMOVE COFFERDAM.
 10. REMOVE WATER DIVERSION FACILITY.

SEMI FINAL DESIGN REVIEW

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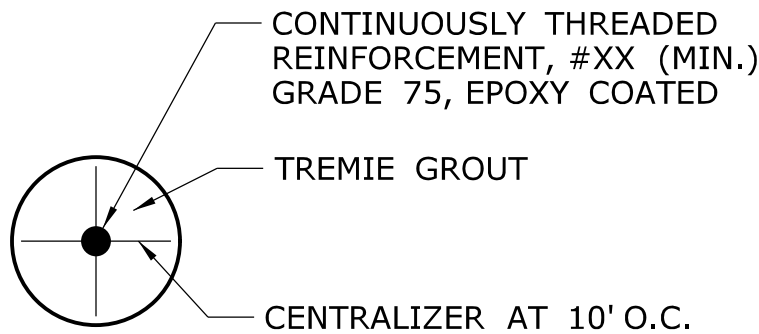
MICROPILE NOTES

1. THE MICROPILE SHALL BE DESIGNED BY THE CONTRACTOR ACCORDING TO THE PROJECT SPECIFICATIONS, THE LATEST VERSION OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING LATEST INTERIM REVISIONS FOR THE LOADS PROVIDED HEREIN.
2. THE CONTRACTOR SHALL SELECT AND DESIGN THE MICROPILE TYPE, SIZE, PILE TOP ATTACHMENT, INSTALLATION MEANS AND METHODS, ESTIMATE THE GROUND-GROUT BOND VALUE AND DETERMINE THE REQUIRED GROUT BOND LENGTH AND FINAL MICROPILE DIAMETER, TAKING INTO ACCOUNT THE MINIMUM AND MAXIMUM REQUIREMENTS INDICATED ON THIS SHEET AND IN THE SPECIFICATIONS.
3. THE MICROPILE LOAD CAPACITIES SHALL BE CONFIRMED BY VERIFICATION AND PROOF LOAD TESTING AS REQUIRED AND MUST MEET THE ACCEPTANCE CRITERIA SPECIFIED IN THE SPECIAL PROVISIONS.
4. NO SPlicing OF THE CENTRAL REINFORCEMENT WILL BE ALLOWED WITHIN THE TOP 10 FEET OF THE MICROPILE.
5. MECHANICAL SPLICE COUPLERS, IF REQUIRED, SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR BEING USED, BOTH IN TENSION AND COMPRESSION.
6. THE MICROPILE DESIGN BY THE CONTRACTOR SHALL INCLUDE THE CONNECTION/ANCHORAGE OF THE PILE TO THE FOOTING. THE CONNECTION SHALL BE DESIGNED FOR 100% OF THE ULTIMATE CAPACITY OF THE PILE.



SECTION - CASED MICROPILE

NOT TO SCALE



SECTION - UNCASED MICROPILE

NOT TO SCALE

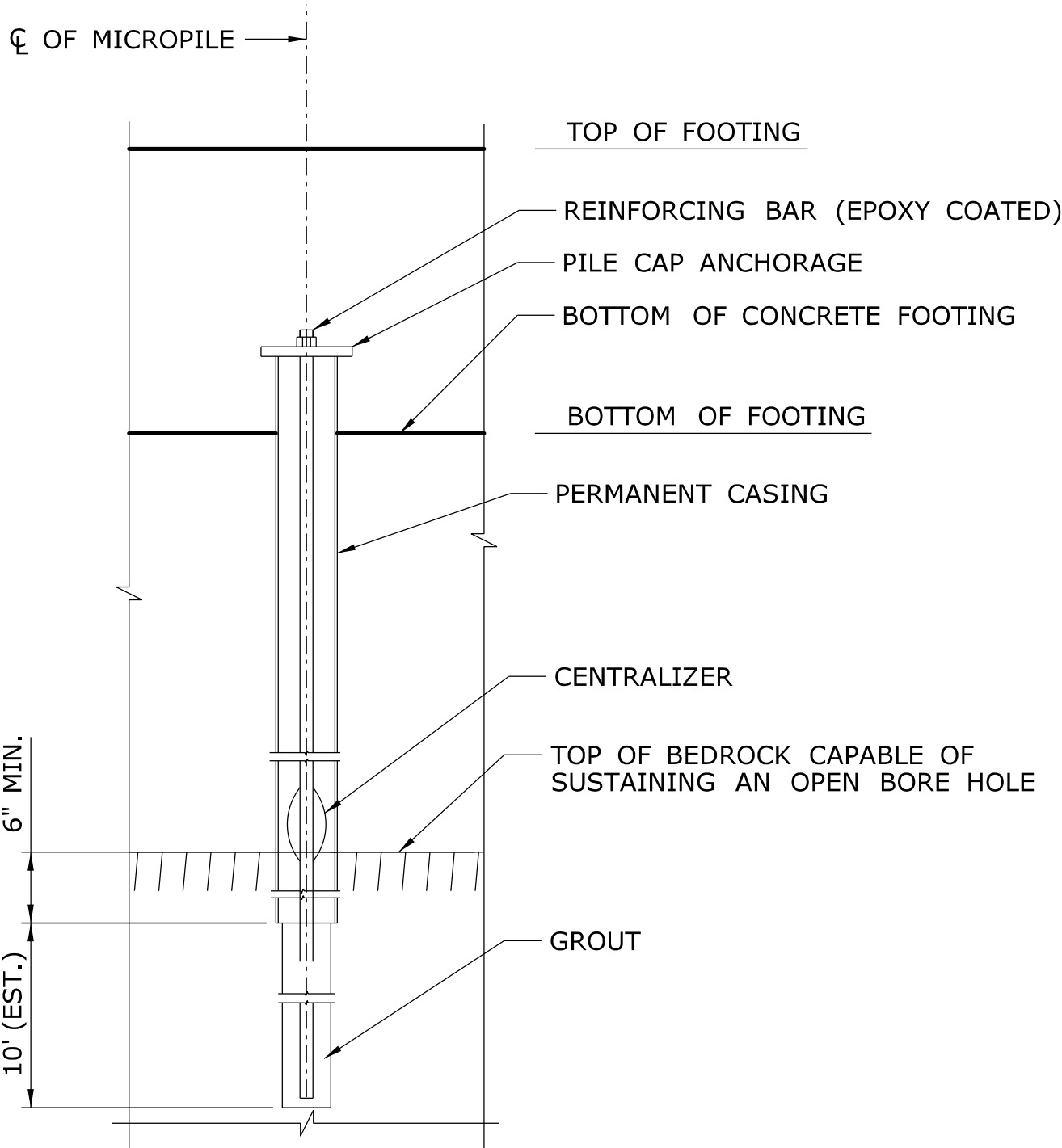
MINIMUM DESIGN REQUIREMENTS:

TYPE XX MICROPILE
MINIMUM PILE DIAMETER = 9 5/8"
MINIMUM PILE WALL THICKNESS = 1/2"
MINIMUM PERMANENT CASING YIELD STRENGTH = XXX KSI
MINIMUM BOND ZONE DIAMETER = XXX"

A RESISTANCE FACTOR OF 0.55 WAS USED.

	COMPRESSION	TENSION
SVL	XX TONS	XX TONS
STL	XX TONS	XX TONS
UPC	XXX TONS	XX TONS

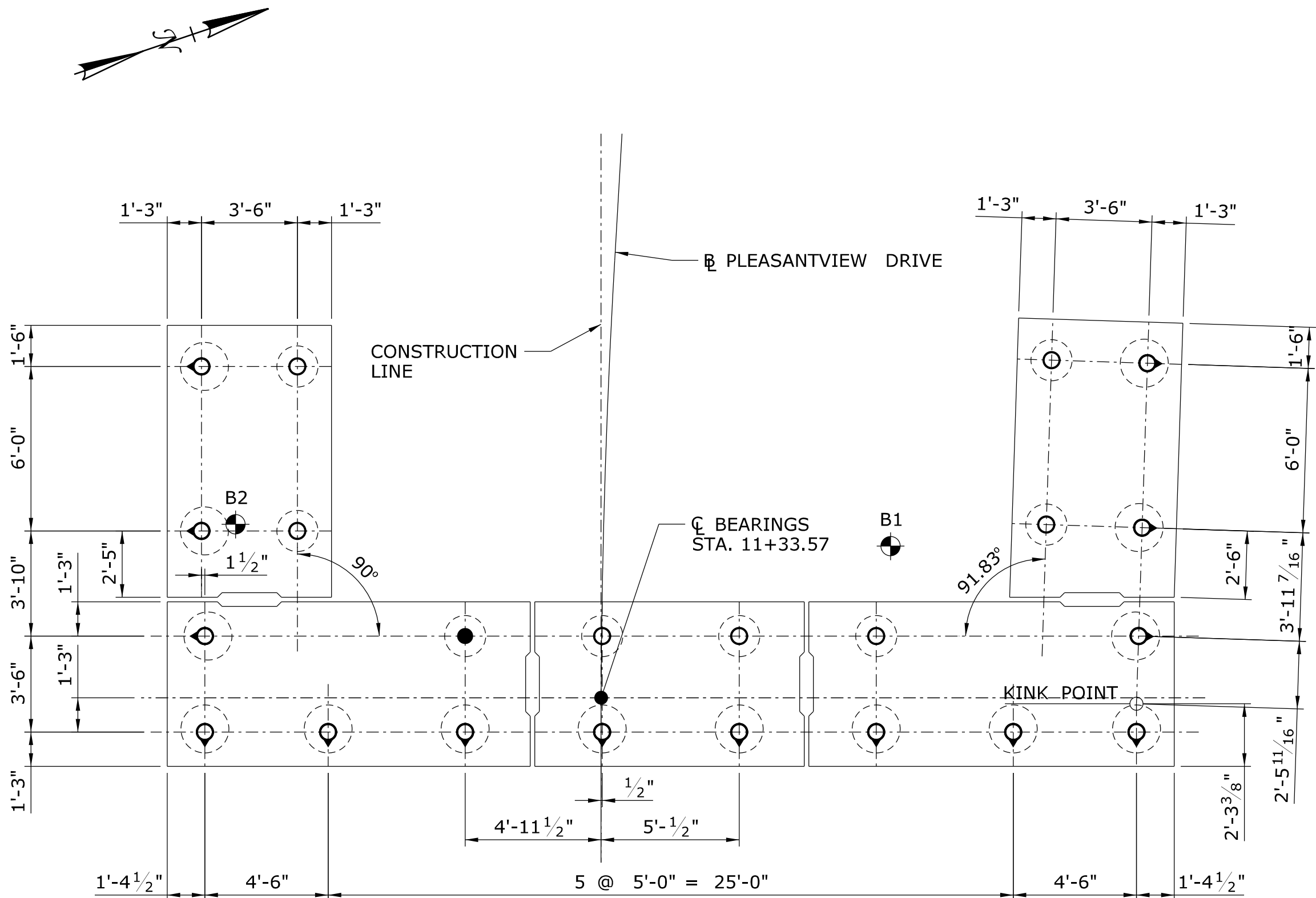
SVL = MAXIMUM SERVICE LOAD
STL = MAXIMUM STRENGTH LOAD
UPC = REQUIRED ULTIMATE PILE CAPACITY



ESTIMATED CASING TIP BOTTOM = EL XX.XX (ABUT. 1)
EL XX.XX (ABUT. 2)

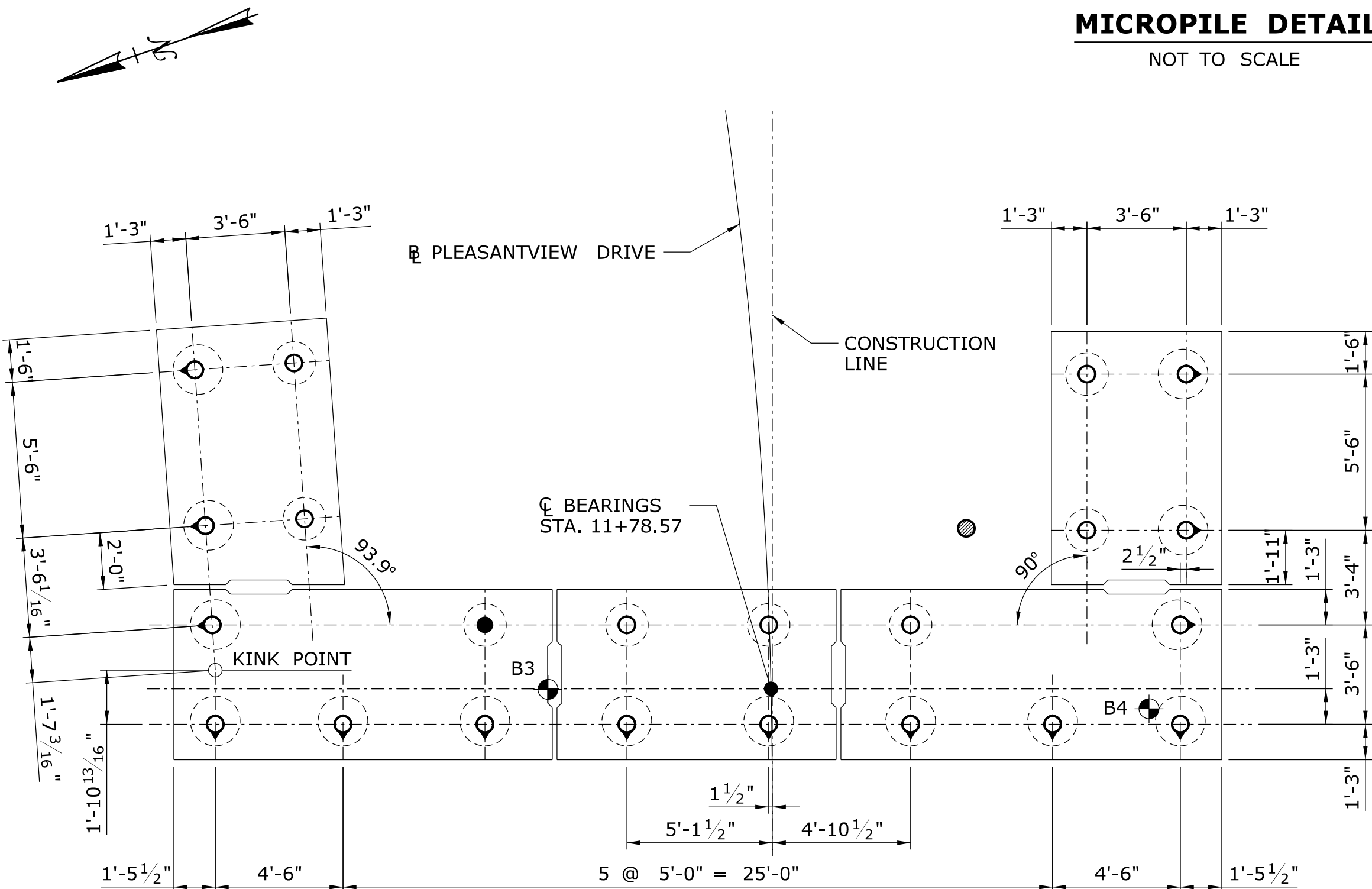
MICROPILE DETAIL

NOT TO SCALE



ABUTMENT 1 - PILE LAYOUT PLAN

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



ABUTMENT 2 - PILE LAYOUT PLAN

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

LEGEND

- = MICROPILE - PLUMB
- ◑ = MICROPILE - BATTERED 4:12 (H:V)
- = MICROPILE PROOF TEST - PLUMB
- ⊙ = MICROPILE VERIFICATION PILE
- ⊕ = BORING


SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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: 5/19/2017

DESIGNER/DRAFTER:
JMB
CHECKED BY:
AML
SCALE AS NOTED

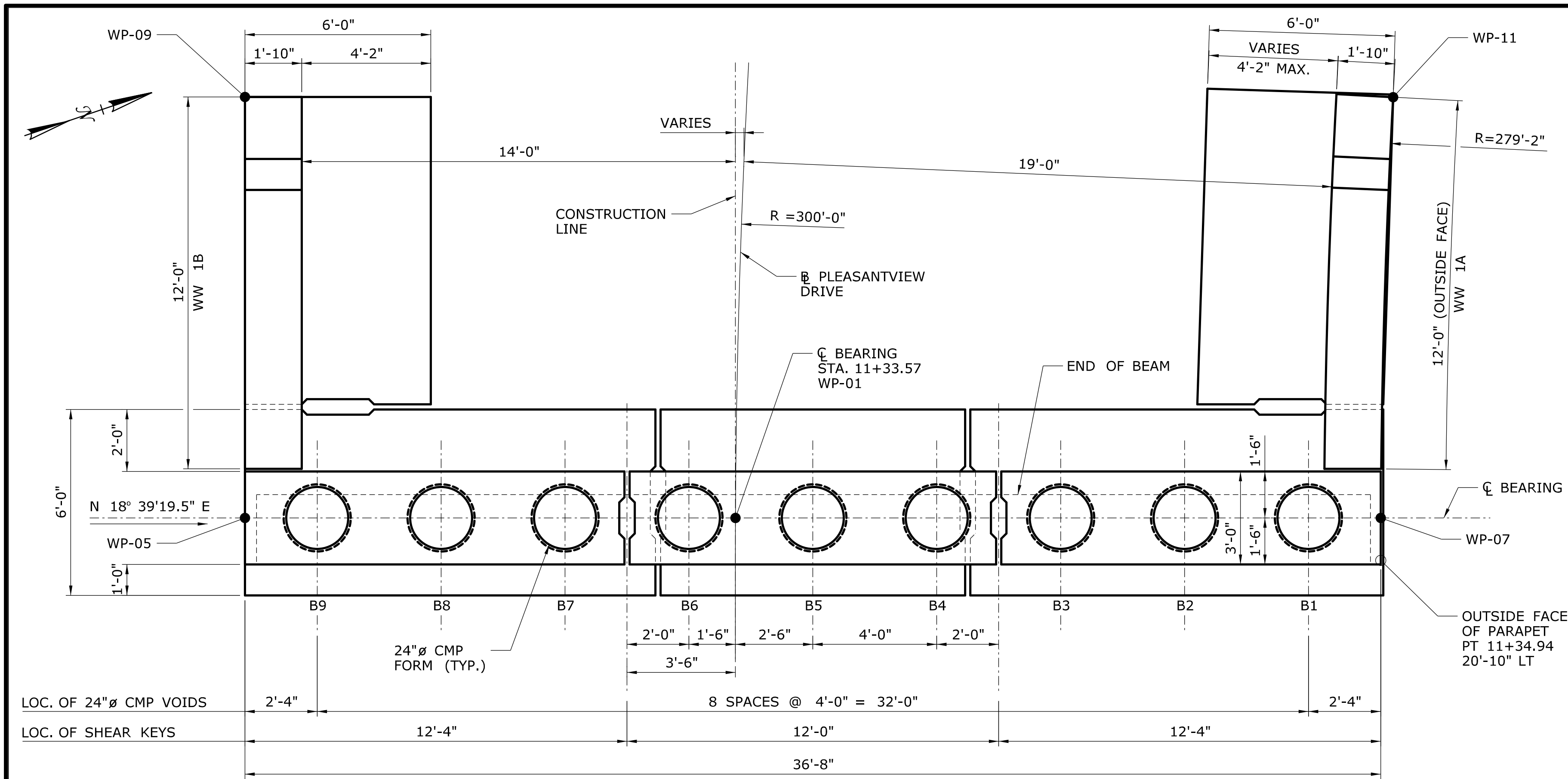
**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION
Filename: ...\\S-07_MICROPILE_LAYOUT_PLAN & DETAILS.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:
REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER

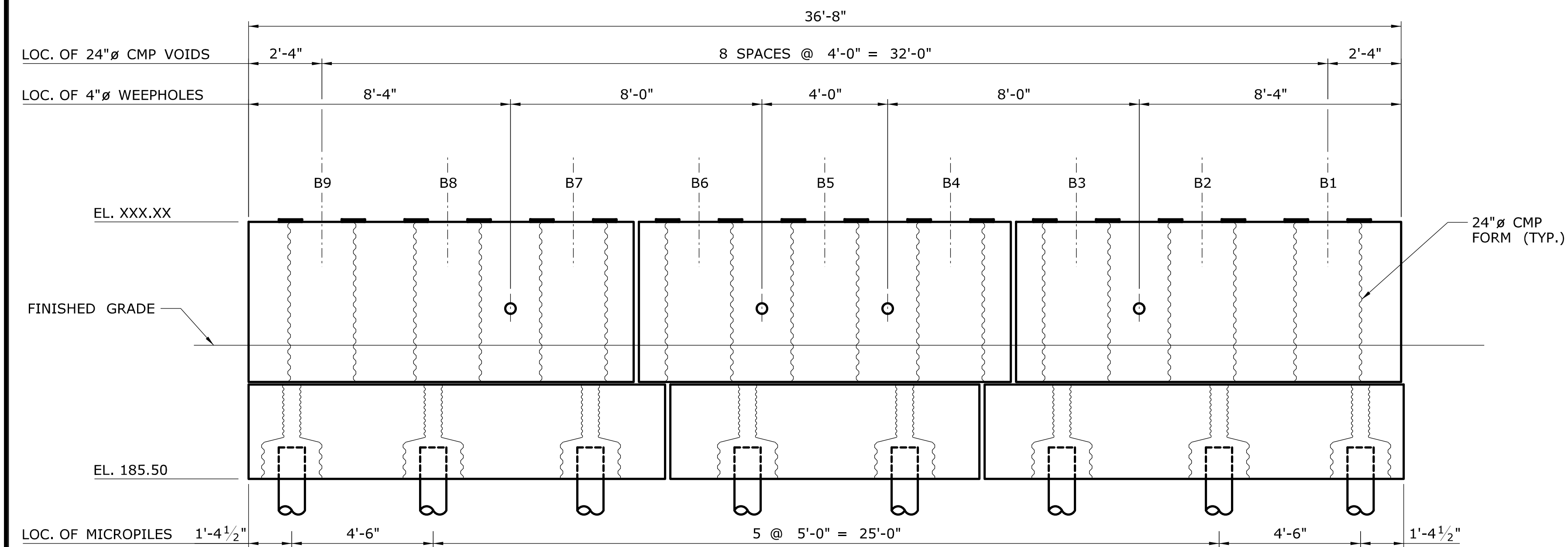
TOWN:
VERNON
DRAWING TITLE:
MICROPILE LAYOUT PLAN & DETAILS

PROJECT NO.
146-200
DRAWING NO.
S-07
SHEET NO.
04.07



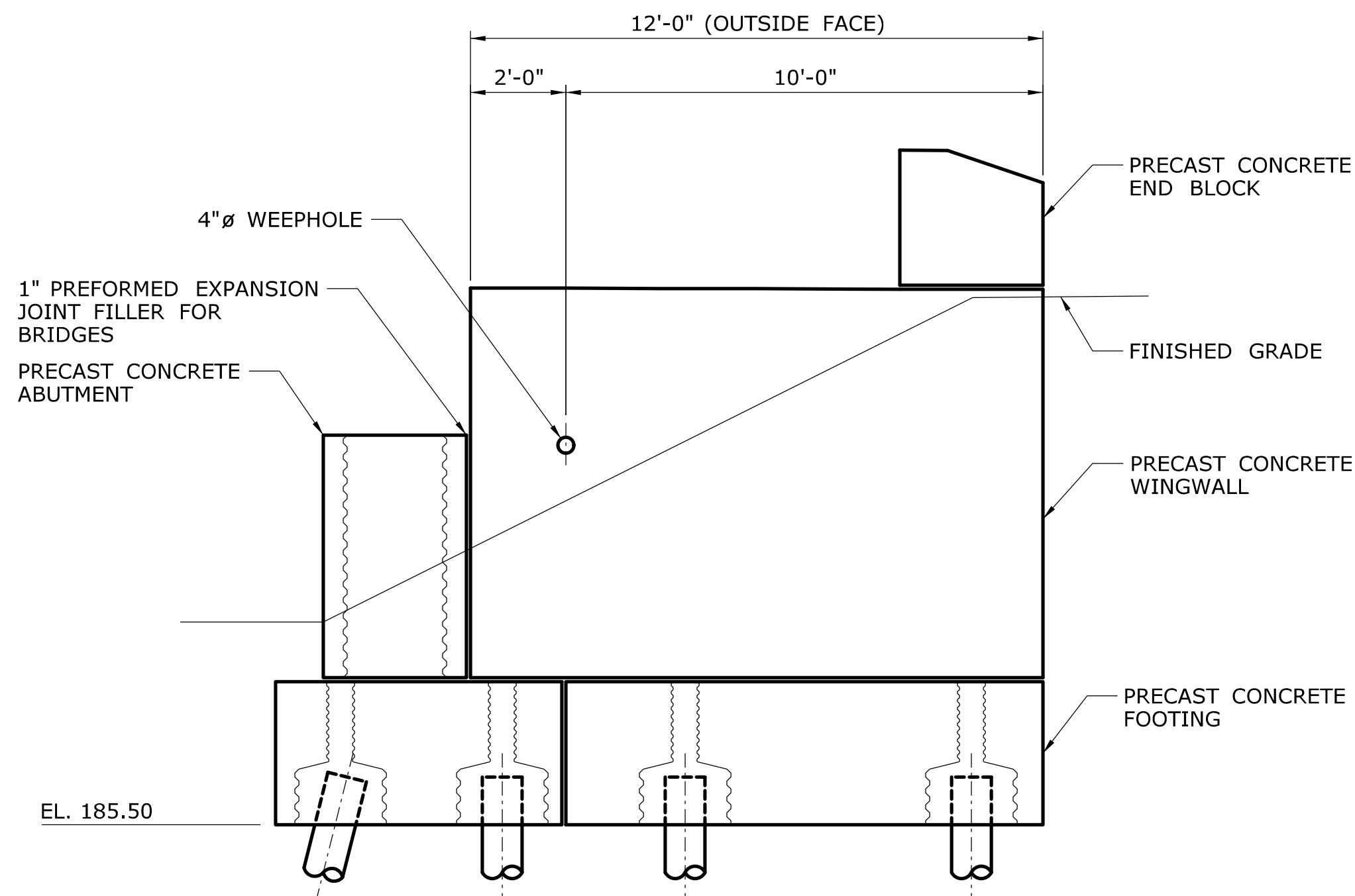
ABUTMENT 1 PLAN

SCALE: $\frac{3}{8}" = 1'-0"$



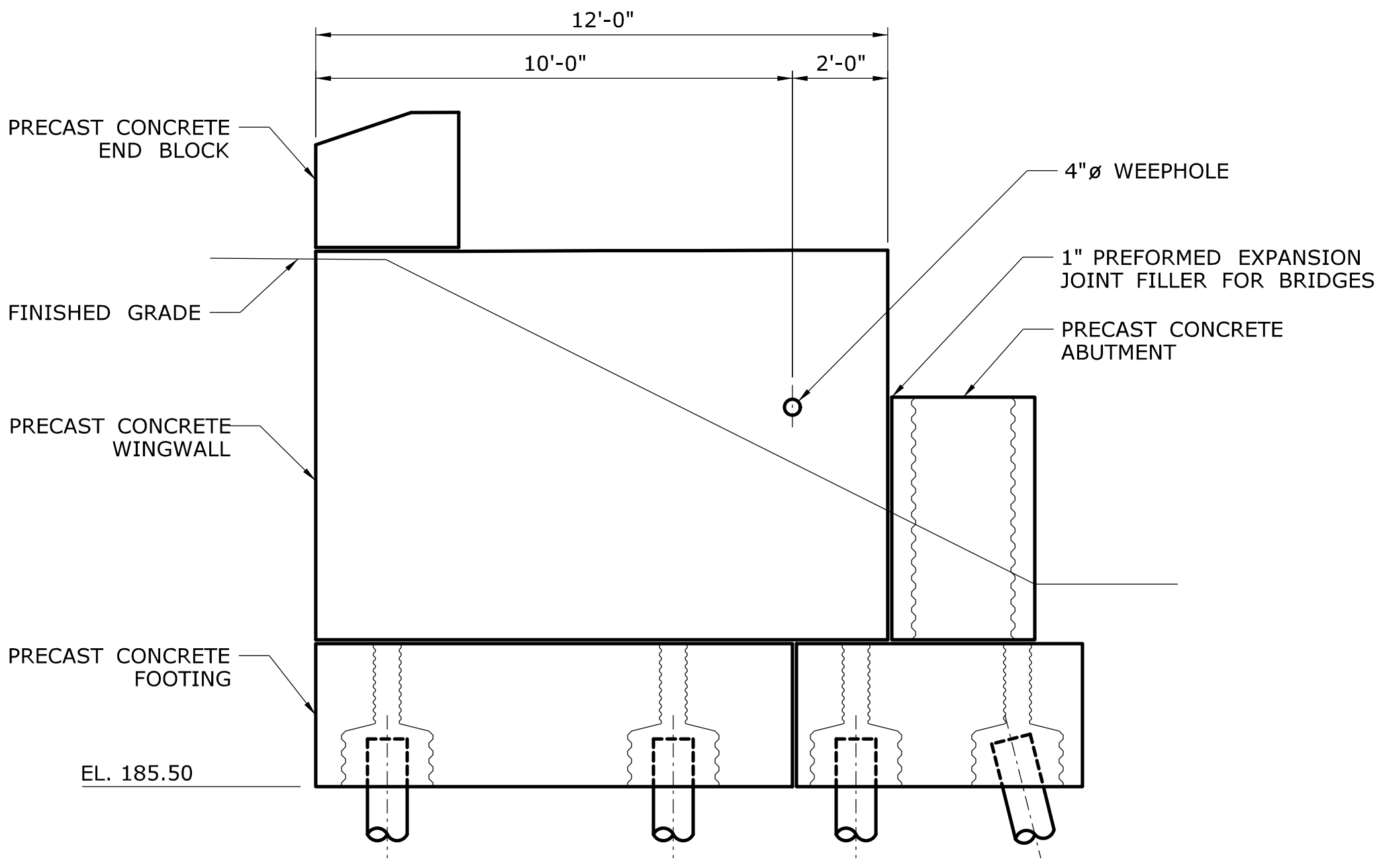
ABUTMENT 1 ELEVATION

SCALE: $\frac{3}{8}" = 1'-0"$



WINGWALL 1A DEVELOPED ELEVATION

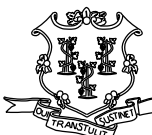
SCALE: $\frac{3}{8}" = 1'-0"$

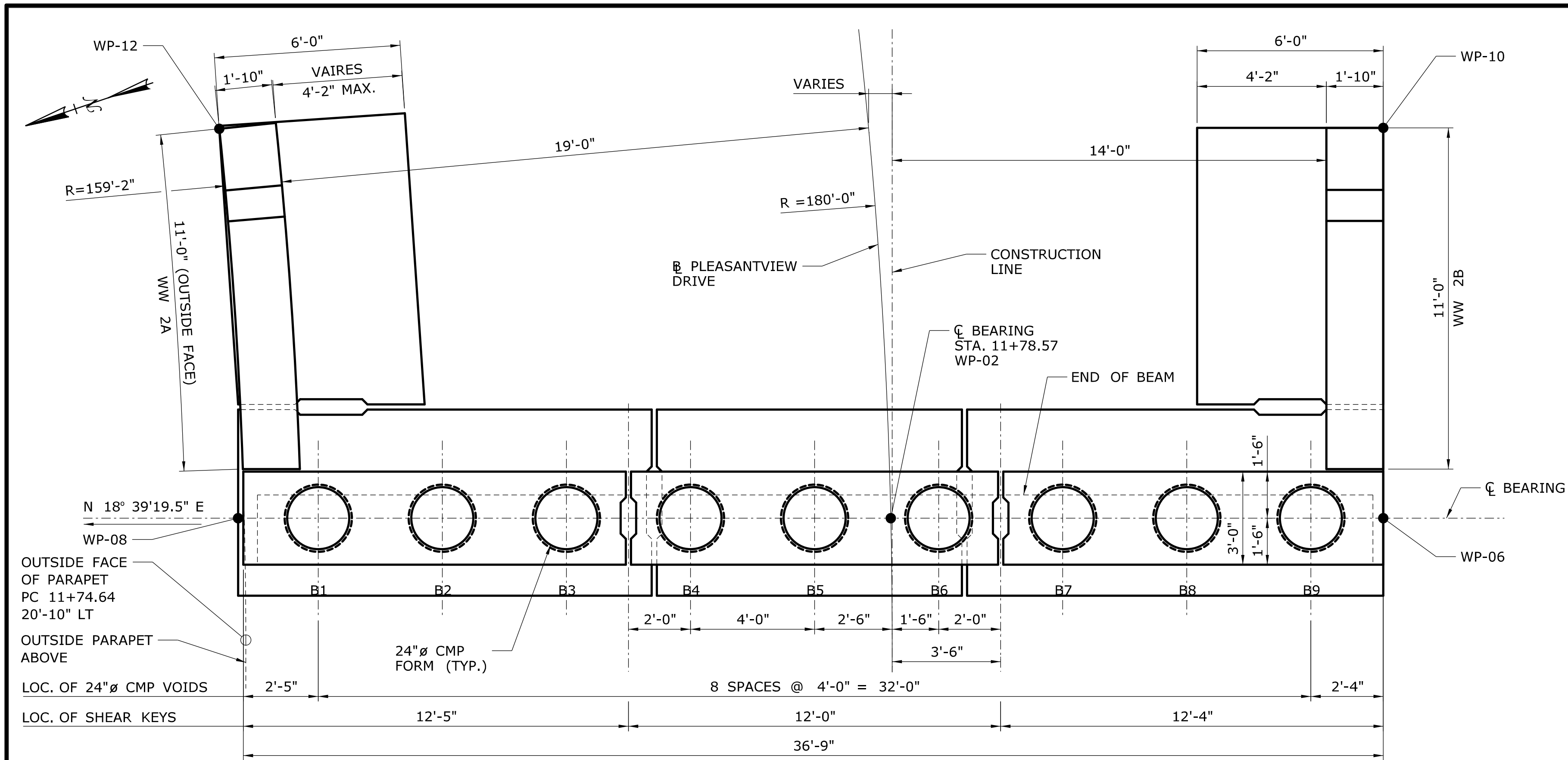


WINGWALL 1B ELEVATION

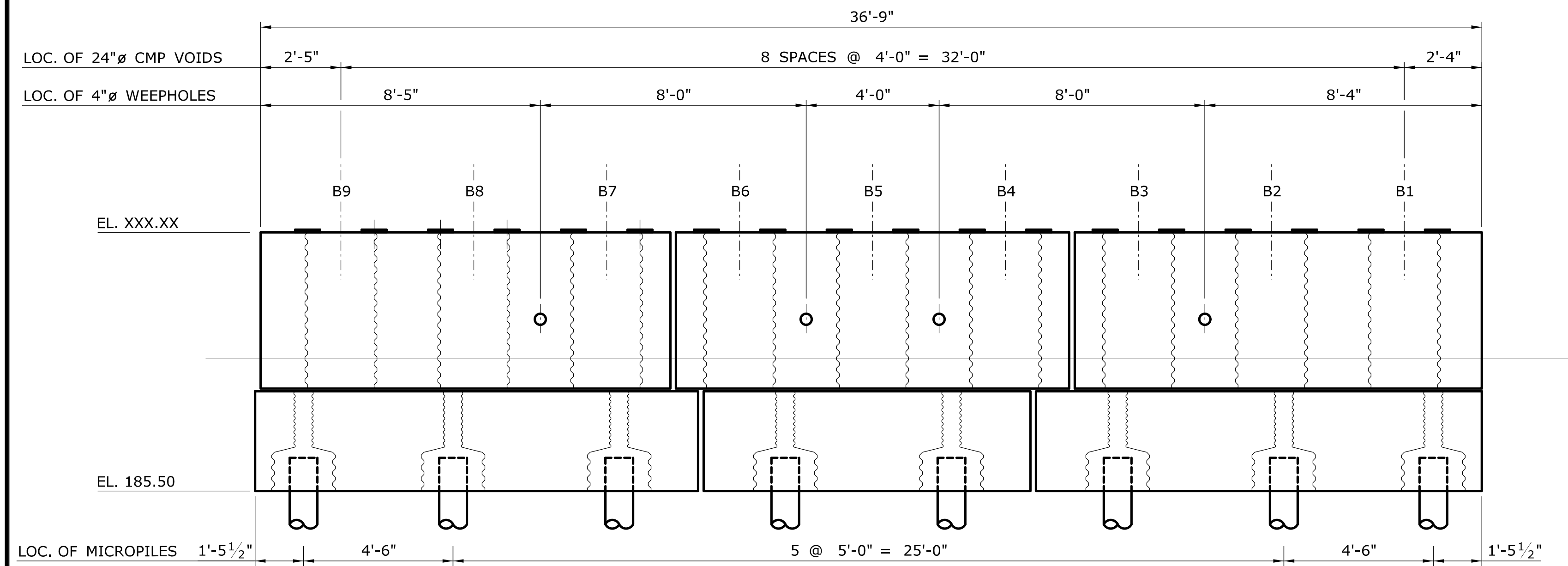
SCALE: $\frac{3}{8}" = 1'-0"$

SEMI FINAL DESIGN REVIEW

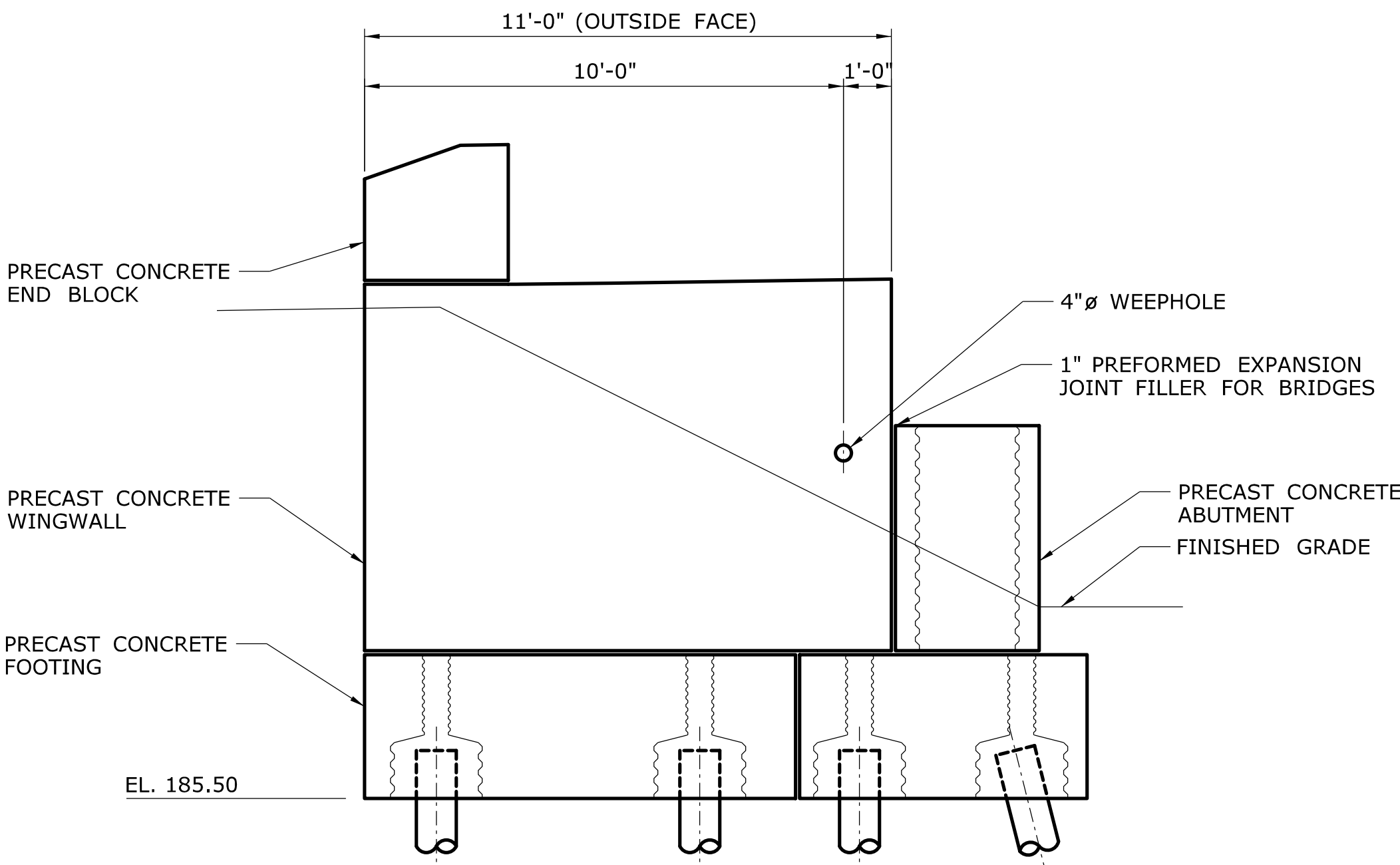
			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: JMB		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER	TOWN: VERNON	PROJECT NO. 146-200						
				CHECKED BY: AML						DRAWING NO. S-08						
				SCALE AS NOTED						SHEET NO. 04.08						
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017		Filename: ...S-08_ABUTMENT 1.dgn										



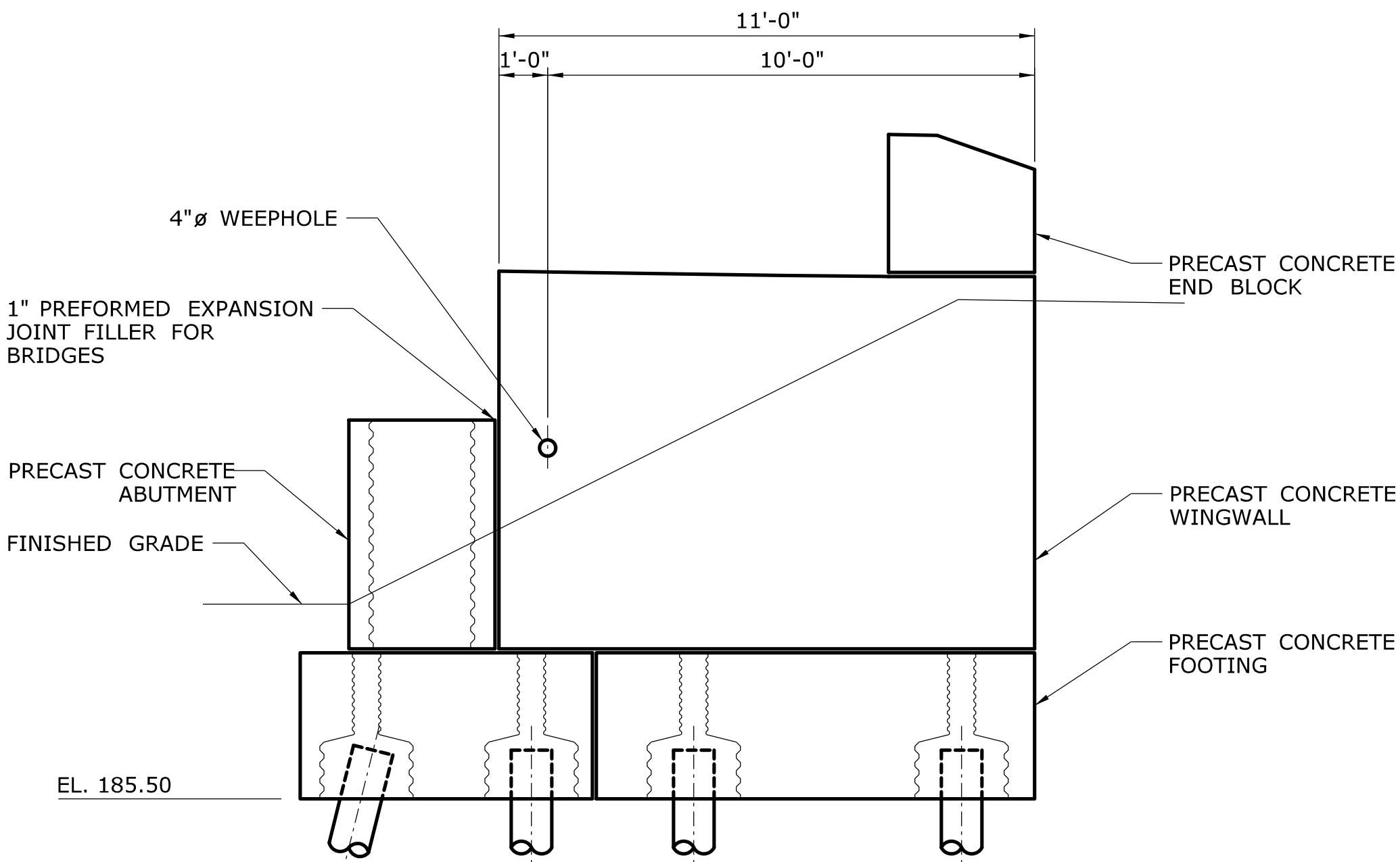
ABUTMENT 2 PLAN
SCALE: $\frac{3}{8}" = 1'-0"$



ABUTMENT 2 ELEVATION
SCALE: $\frac{3}{8}" = 1'-0"$




WINGWALL 2A DEVELOPED ELEVATION
SCALE: $\frac{3}{8}" = 1'-0"$



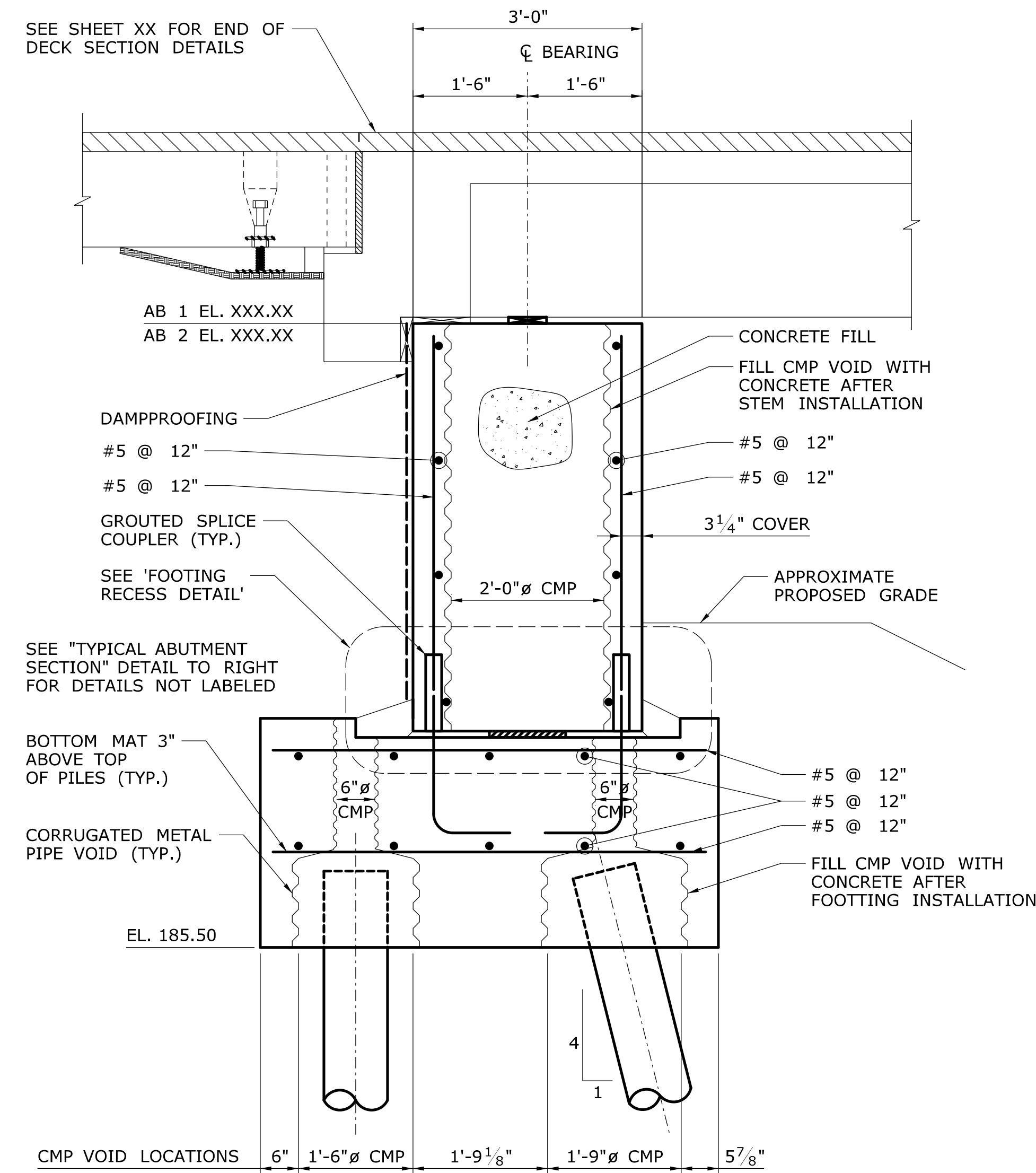
WINGWALL 2B ELEVATION
SCALE: $\frac{3}{8}" = 1'-0"$

SEMI FINAL DESIGN REVIEW

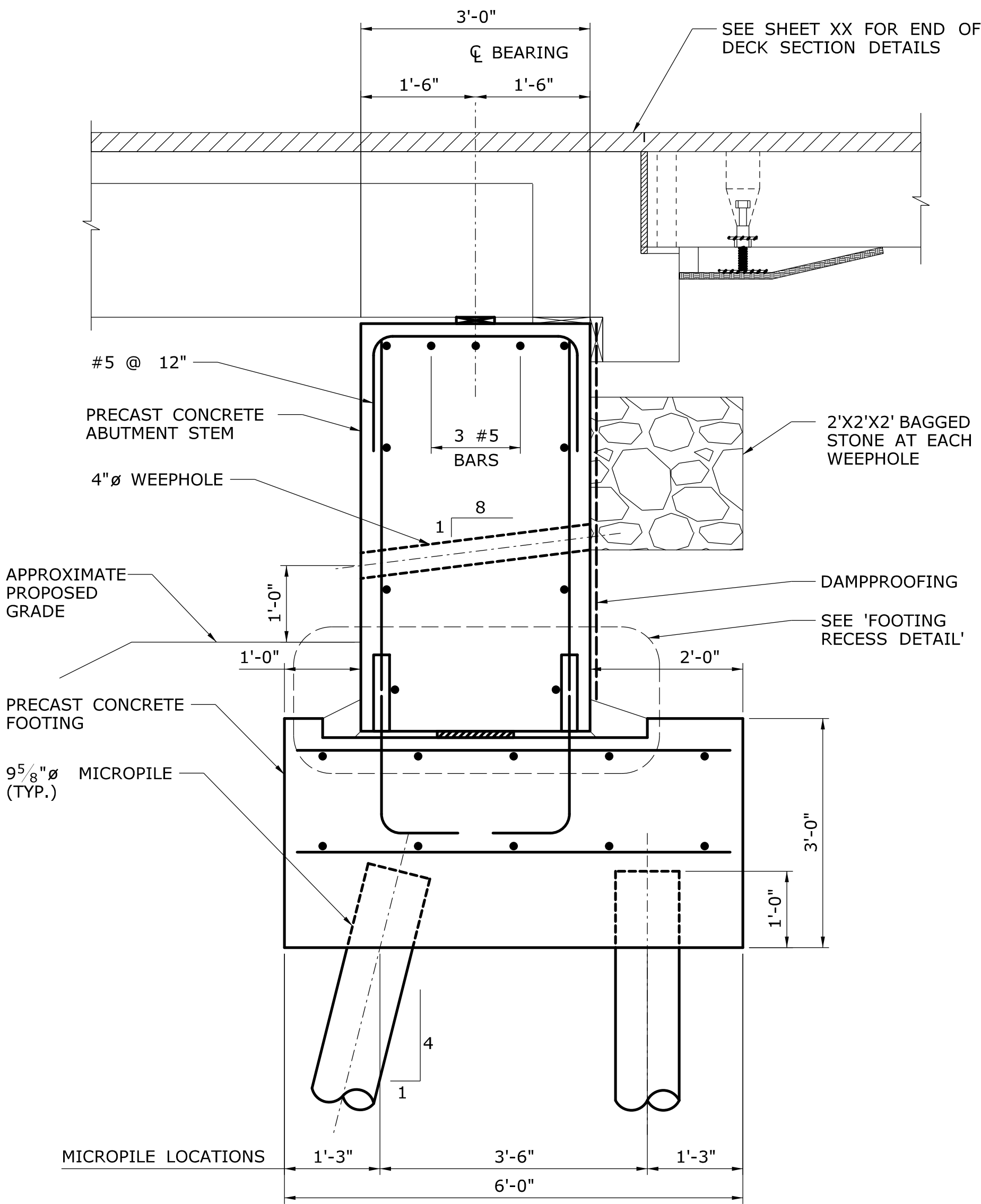
			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: JMB CHECKED BY: AML SCALE AS NOTED	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\S-09_ABUTMENT 2.dgn	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER	TOWN: VERNON DRAWING TITLE: ABUTMENT 2	PROJECT NO. 146-200 DRAWING NO. S-09 SHEET NO. 04.09
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017						

SUGGESTED GROUTED SPLICE
COUPLER CONNECTION SEQUENCE:

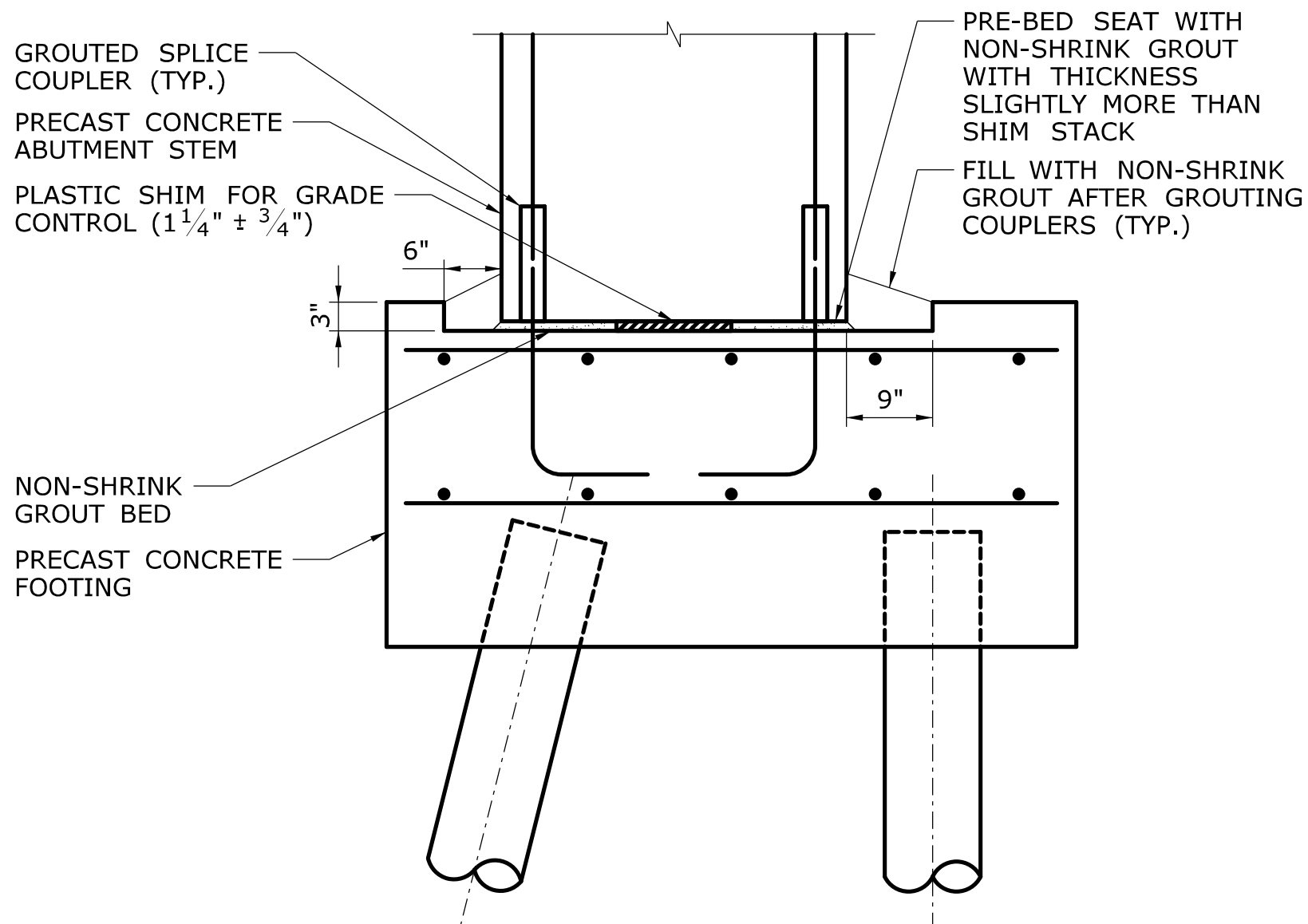
- IT IS RECOMMENDED THAT THE GROUTING PROCEDURE BE COMPLETED IN THE PRESENCE OF A CONTRACTOR'S SUPERVISOR THAT IS EXPERIENCED IN THE INSTALLATION OF GROUTED SLEEVES. MANUFACTURER TRAINING MAY BE REQUIRED FOR INEXPERIENCED STAFF.
- FOLLOW THE WRITTEN INSTALLATION PROCEDURES OF THE COUPLER MANUFACTURER. THE FOLLOWING ARE GENERAL PROCEDURES THAT APPLY TO MOST COUPLER MANUFACTURERS.
- IT IS RECOMMENDED THAT THE ELEMENT WITH THE REINFORCEMENT BAR EXTENSIONS BE FABRICATED WITH EXTENDED LENGTHS.
- SURVEY LOCATION AND ELEVATION OF LOWER ELEMENT.
- DETERMINE THE REQUIRED REINFORCING BAR EXTENSION LENGTHS AND THE REQUIRED SHIM HEIGHTS BASED ON THE SURVEY.
- CUT THE BAR EXTENSIONS TO THE REQUIRED LENGTH BASED ON THE SURVEY AND THE COUPLER MANUFACTURER'S RECOMMENDATIONS. FOR COATED BARS, THE ENDS OF THE BARS NEED NOT BE RE-COATED.
- PRE-BED PRECAST COMPONENT WITH NON-SHRINK GROUT WITH THICKNESS MORE THAN SHIM STACK.
- ERECT UPPER ELEMENT TO WITHIN THE SPECIFIED ERECTION TOLERANCES. PREVENT BEDDING GROUT FROM FLOWING INTO COUPLER.
- MAINTAIN INTEGRITY OF GROUT BED DURING SETTING OPERATION. REPAIR GROUT THAT IS DISPLACED OR GAPS THAT DEVELOP IN THE GROUT JOINT USING HAND TOOLS.
- BRACE THE UPPER ELEMENT.
- INSTALL GROUT IN COUPLERS FOLLOWING THE MANUFACTURER'S WRITTEN PROCEDURES. IF THE COUPLER IS BELOW THE JOINT, THE COUPLER GROUT CAN BE INSTALLED PRIOR TO APPLICATION OF BEDDING GROUT.
- ERECTION OF SUBSEQUENT ELEMENTS ABOVE A CONNECTION SHOULD NOT COMMENCE UNTIL THE CONNECTION HAS ACHIEVED ADEQUATE STRENGTH AS DETERMINED THROUGH STRENGTH TESTING OF THE GROUT. THE TIMING OF SUBSEQUENT CONSTRUCTION STEPS SHOULD BE SPECIFIED IN THE BRIDGE ASSEMBLY PLAN.



TYPICAL ABUTMENT SECTION AT VOID
SCALE: 3/4" = 1'-0"




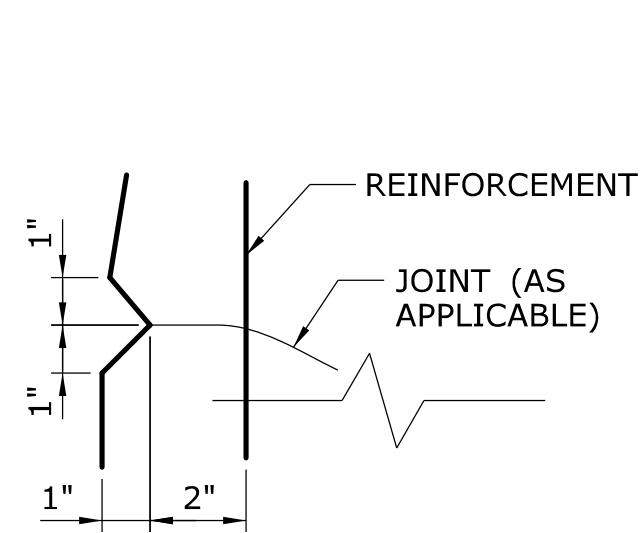
TYPICAL ABUTMENT SECTION
SCALE: 3/4" = 1'-0"



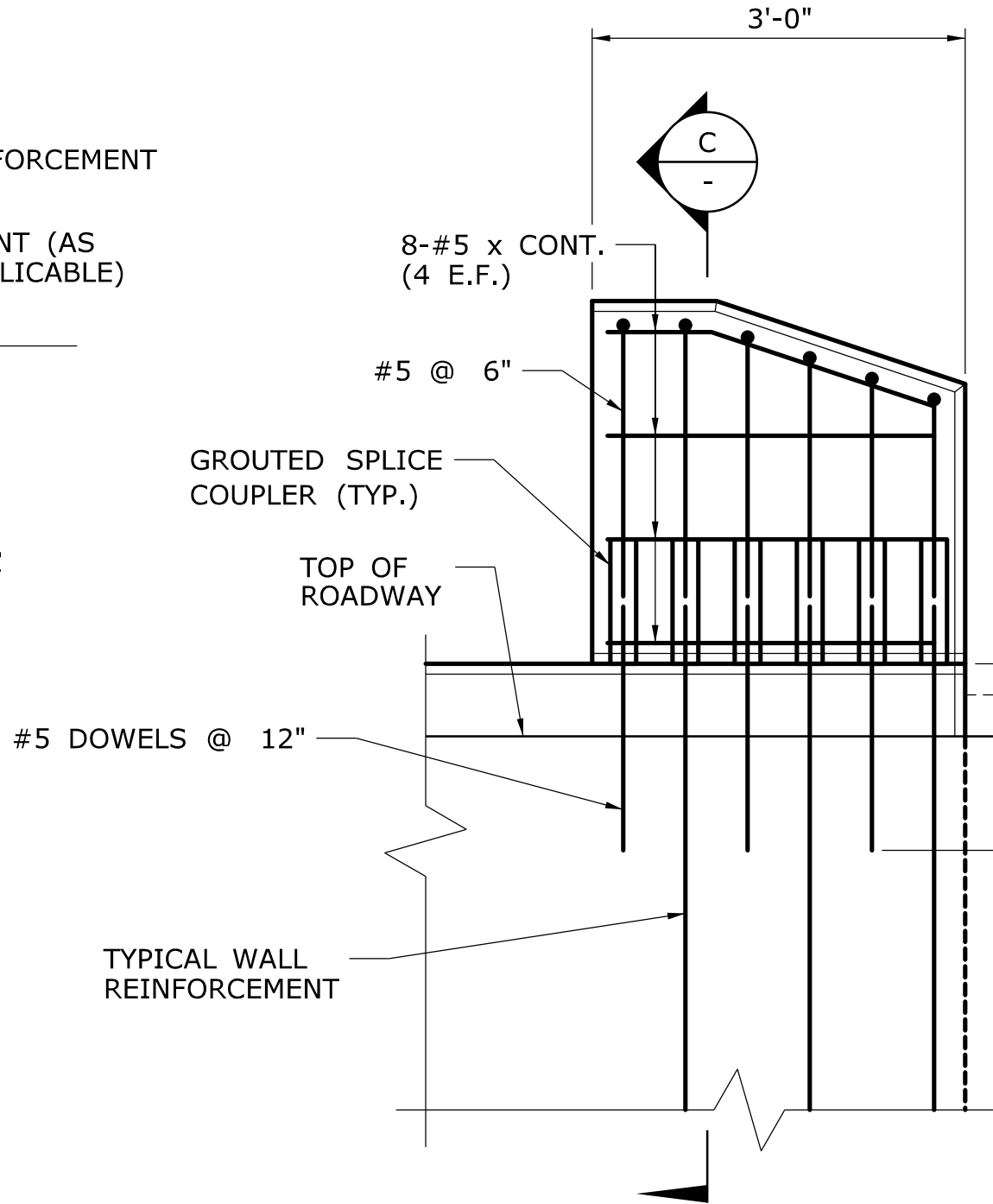
FOOTING RECESS DETAIL
NOT TO SCALE

SEMI FINAL DESIGN REVIEW

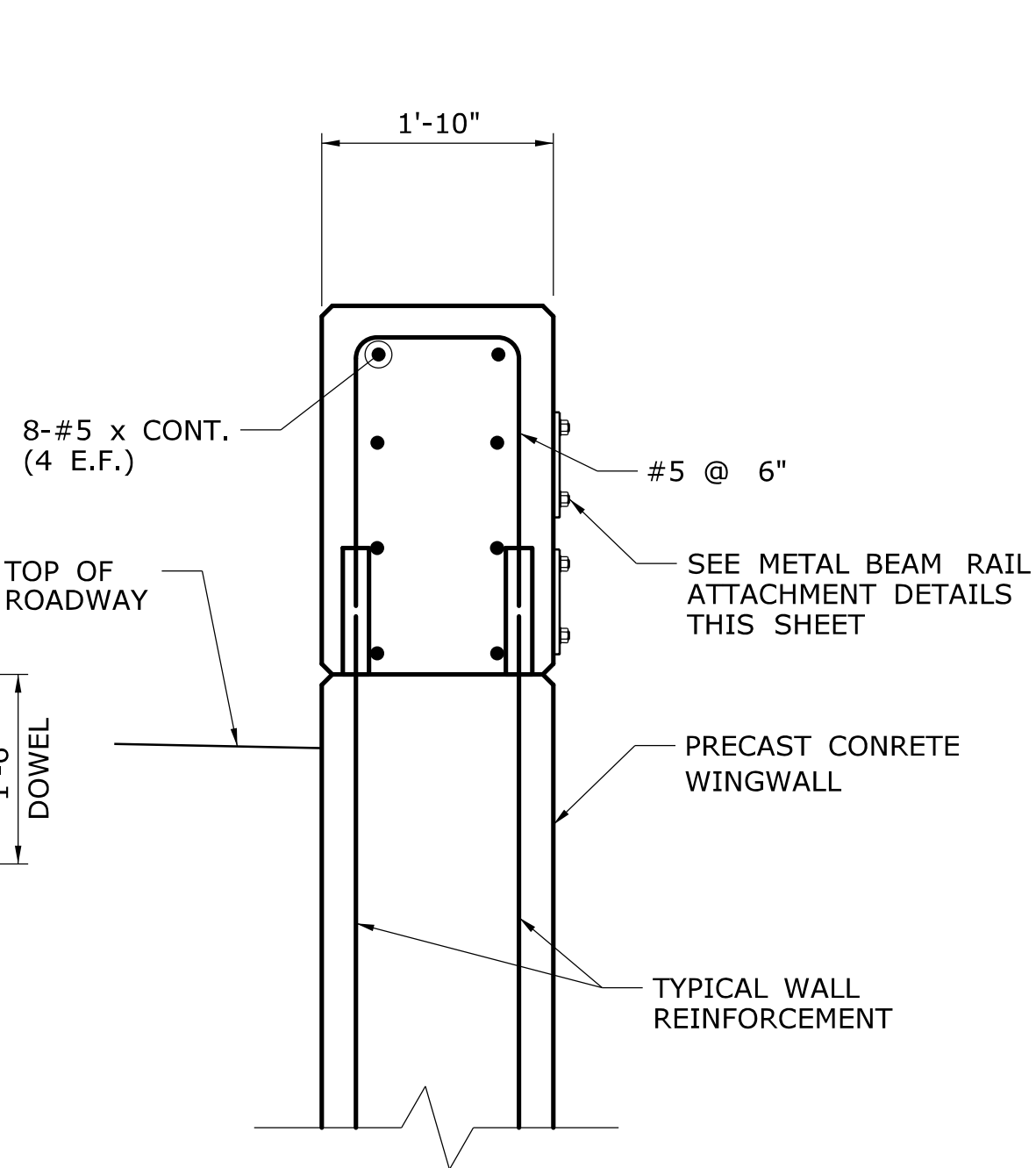
			DESIGNER/DRAFTER: JMB		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER	TOWN: VERNON	PROJECT NO. 146-200	
			CHECKED BY: AML						DRAWING NO. S-10	
			SCALE AS NOTED						SHEET NO. 04.10	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017			Filename: ...S-10_ABUTMENT DETAILS.dgn			



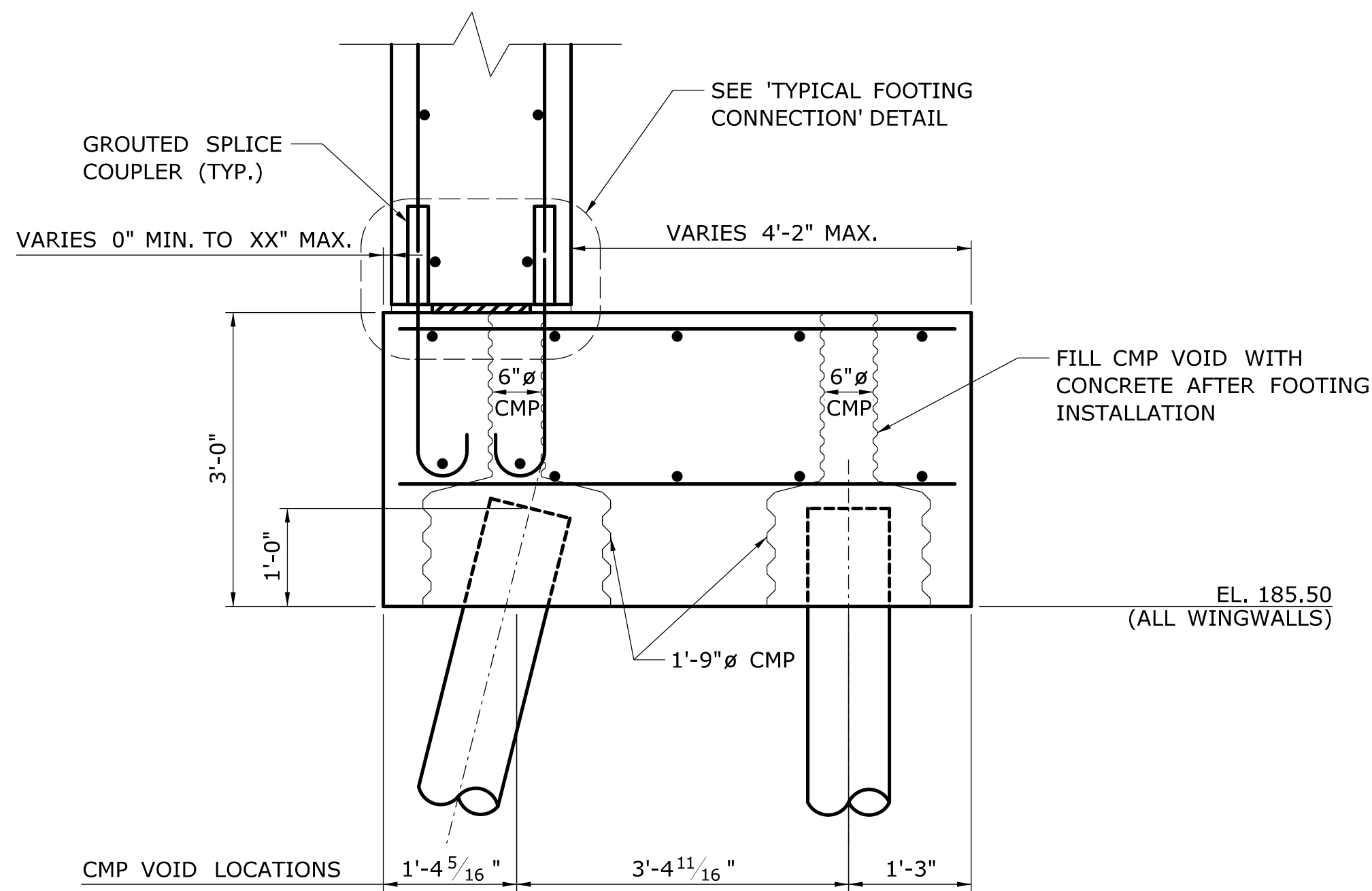
RUSTICATION DETAIL
SCALE: 3" = 1'-0"



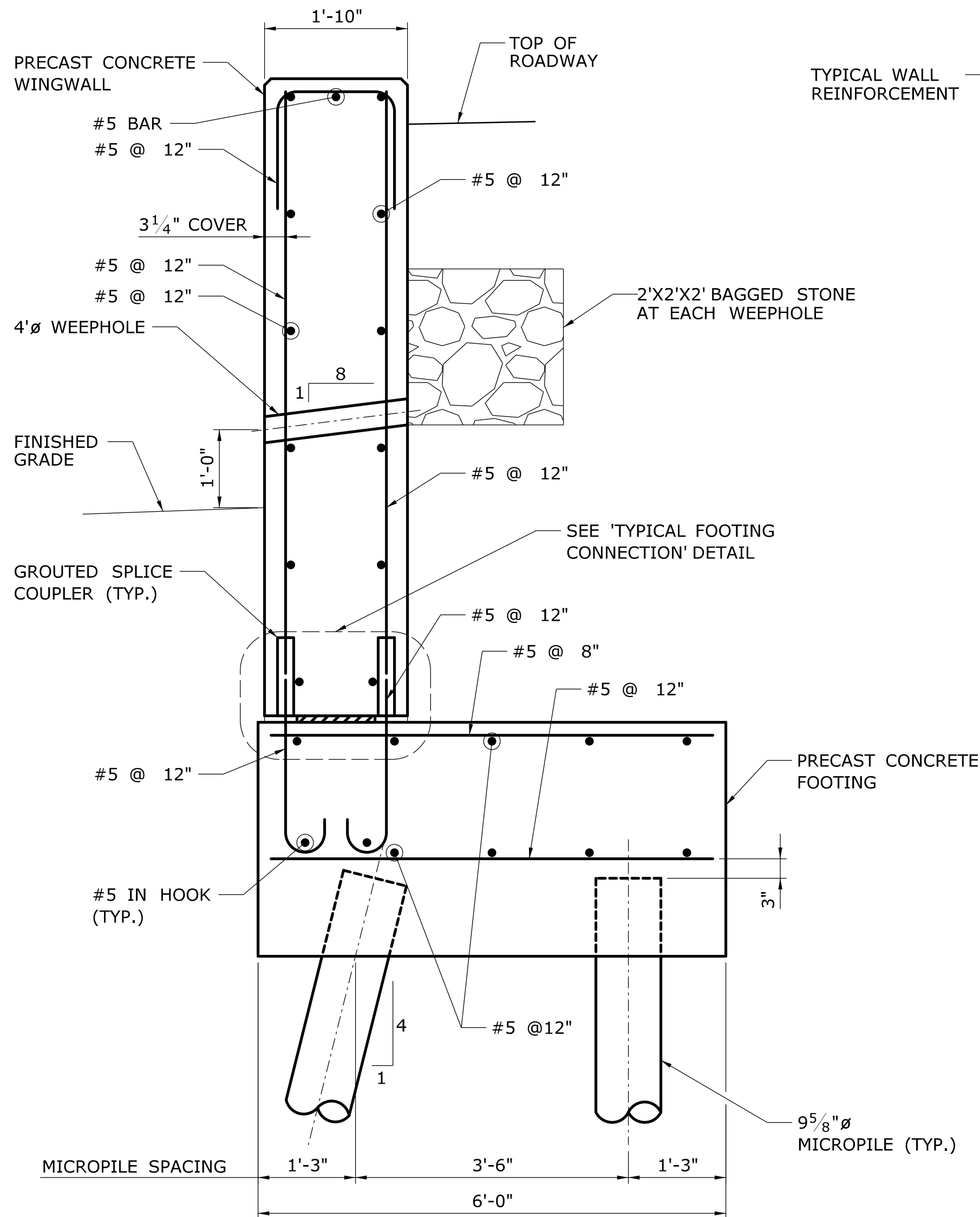
TYPICAL END BLOCK REINFORCEMENT
SCALE: 3/4" = 1'-0"



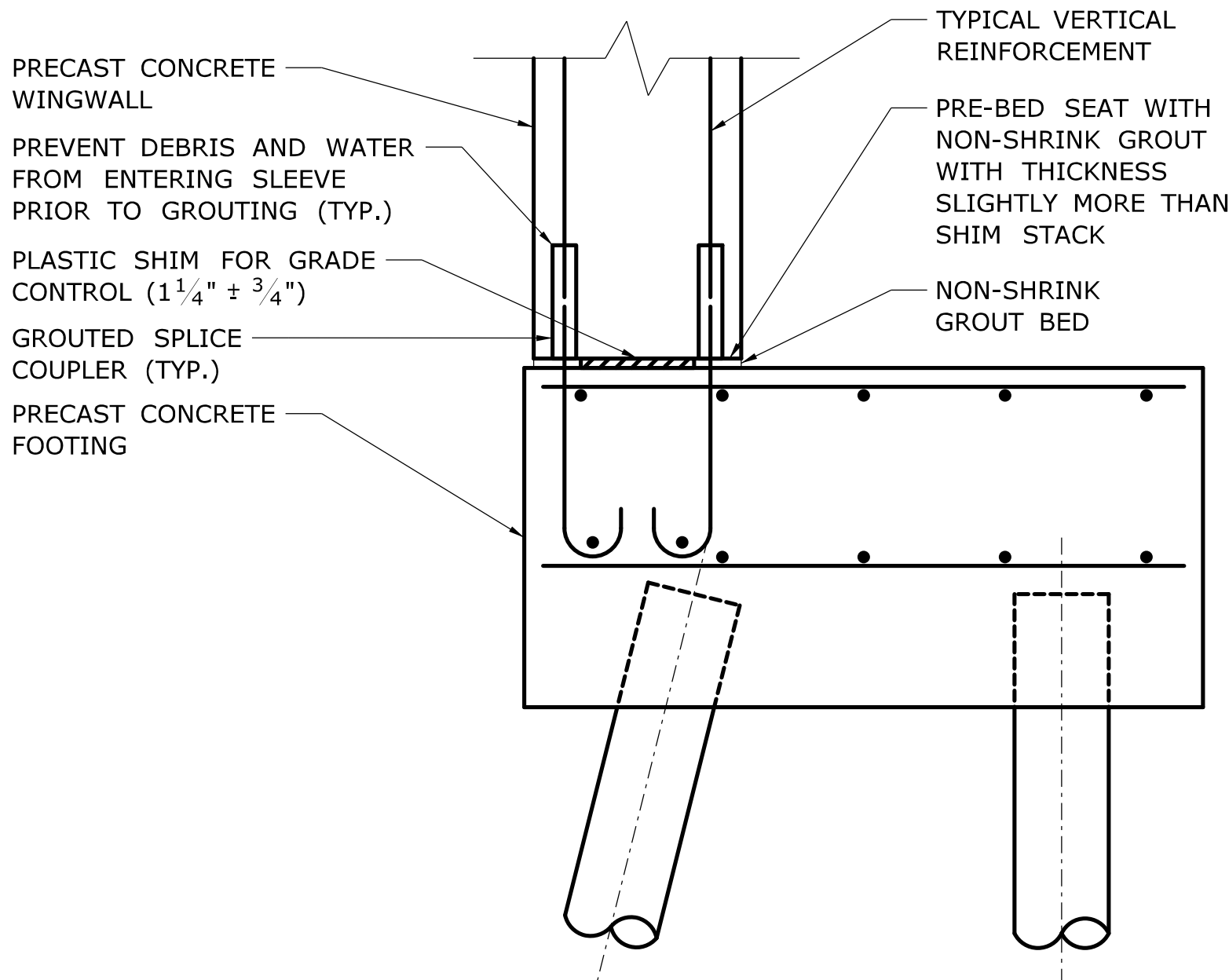
SECTION - END BLOCK
SCALE: 3/4" = 1'-0"



TYPICAL FOOTING CONNECTION AT VOID
SCALE: 3/4" = 1'-0"



TYPICAL WINGWALL SECTION
SCALE: 3/4" = 1'-0"



TYPICAL FOOTING CONNECTION
NOT TO SCALE

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/19/2017

DESIGNER/DRAFTER:
JMB
CHECKED BY:
AML
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

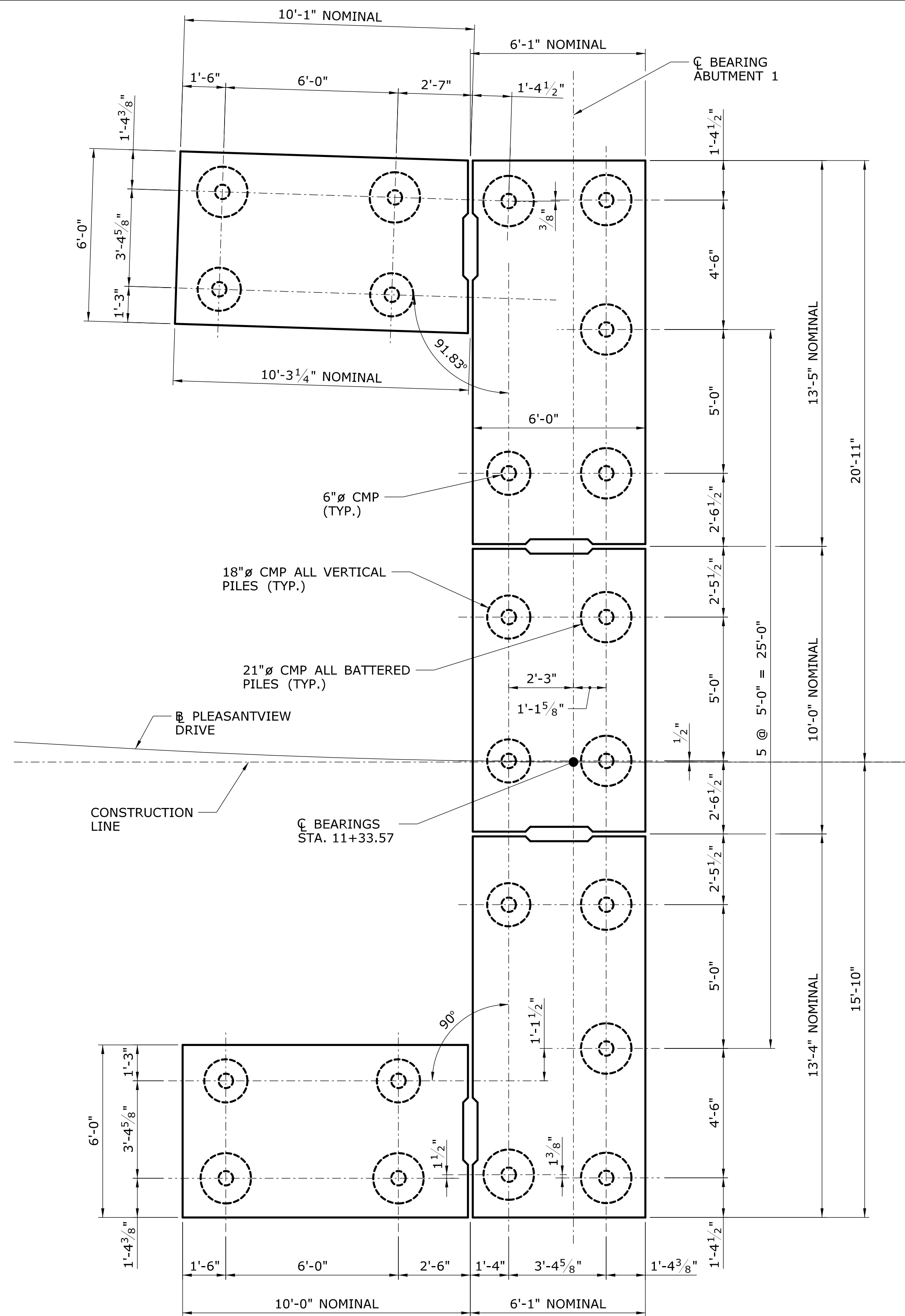
Filename: ...S-11_WINGWALL_DETAILS.dgn

SIGNATURE/
BLOCK:

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REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER

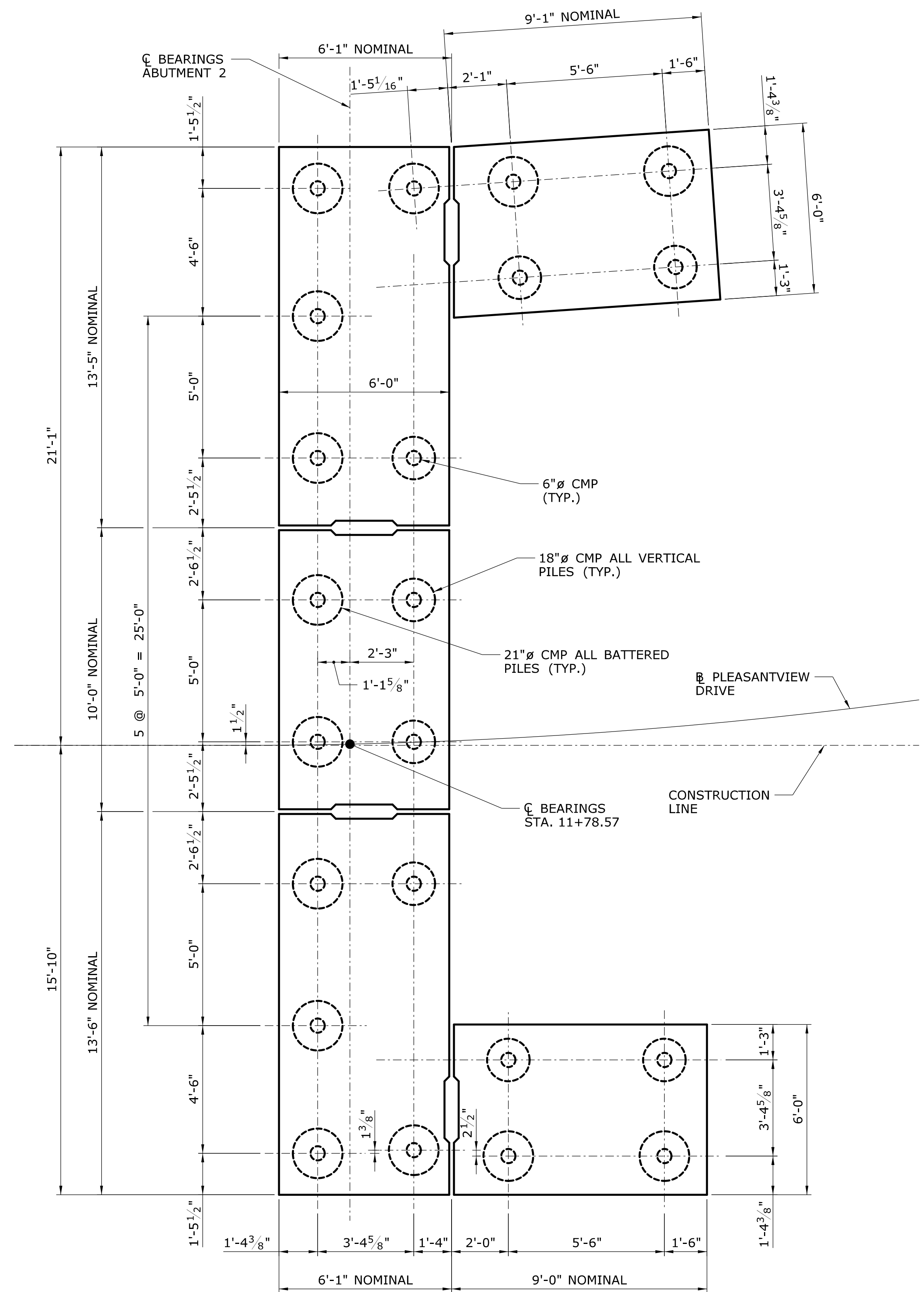
TOWN:
VERNON
DRAWING TITLE:
WINGWALL DETAILS

PROJECT NO.
146-200
DRAWING NO.
S-11
SHEET NO.
04.11



ABUTMENT 1 - FOOTING PLAN

SCALE: $\frac{3}{8}$ " = 1'-0"



ABUTMENT 2 - FOOTING PLAN

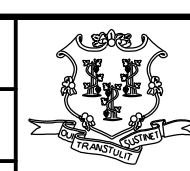
SCALE: $\frac{3}{8}$ " = 1'-0"

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION
Filename: ...S-12_FOOTING_DETAILS.dgn

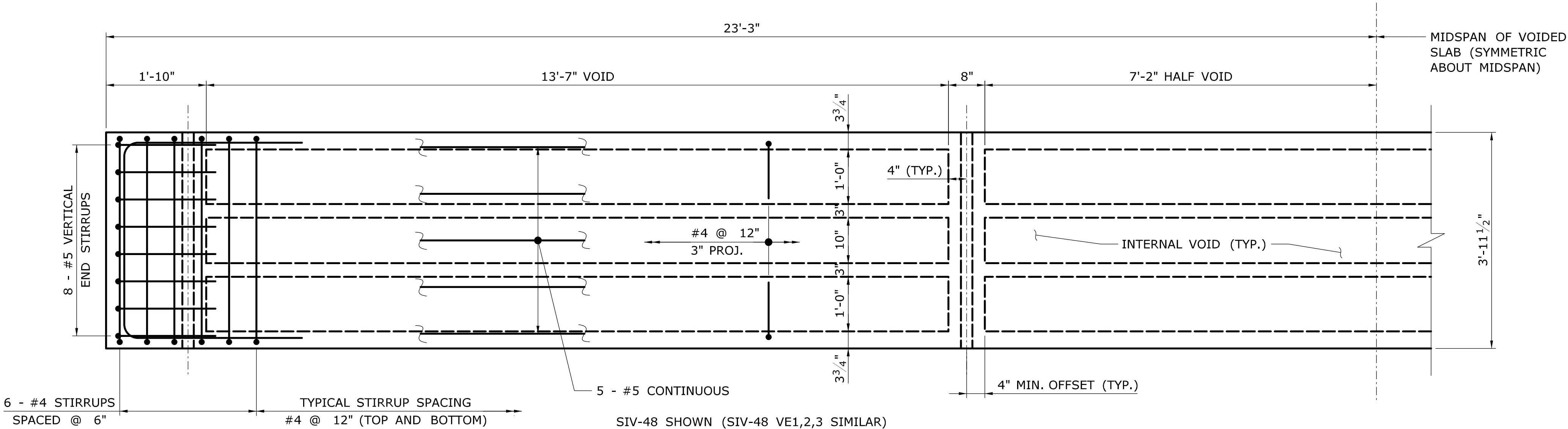
SIGNATURE/
BLOCK:

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO.
04576 PLEASANTVIEW DRIVE
OVER HOCKANUM RIVER**

TOWN:
VERNON
DRAWING TITLE:
FOOTING DETAILS

PROJECT NO.
146-200
DRAWING NO.
S-12
SHEET NO.
04.12

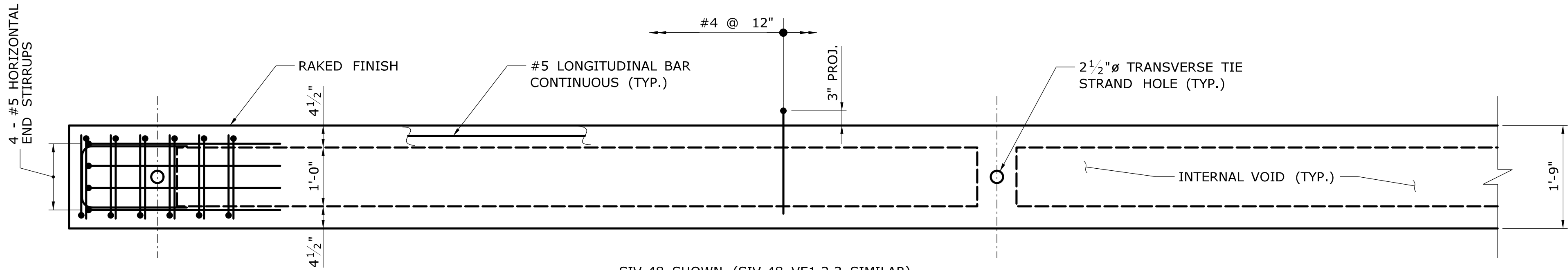
[illegible]



SIV-48 SHOWN (SIV-48 VE1,2,3 SIMILAR)

SIV-48 AND SIV-48 VE PLAN

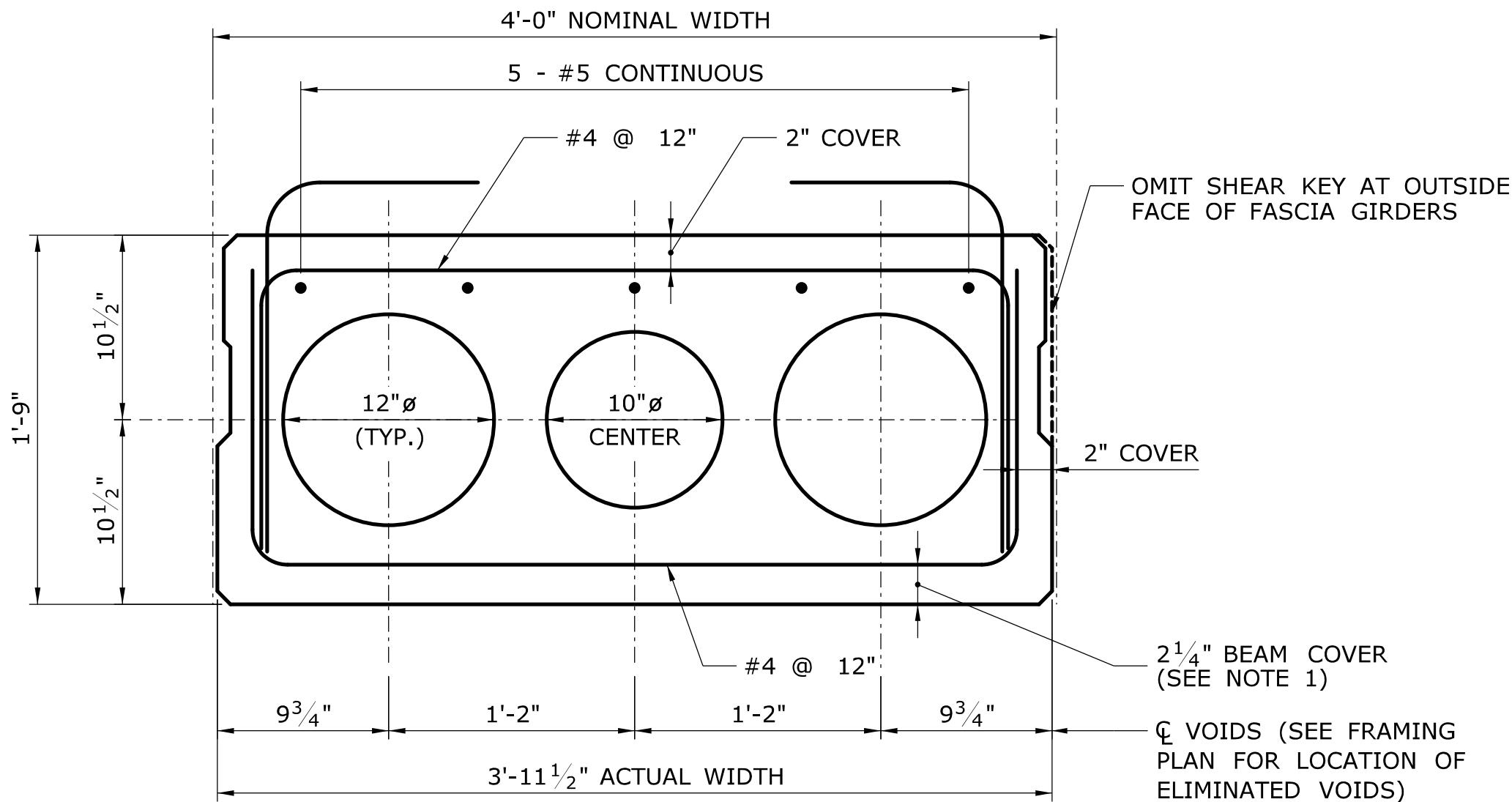
SCALE: $\frac{3}{4}" = 1'-0"$



SIV-48 SHOWN (SIV-48 VE1,2,3 SIMILAR)

SIV-48 AND SIV-48 VE ELEVATION

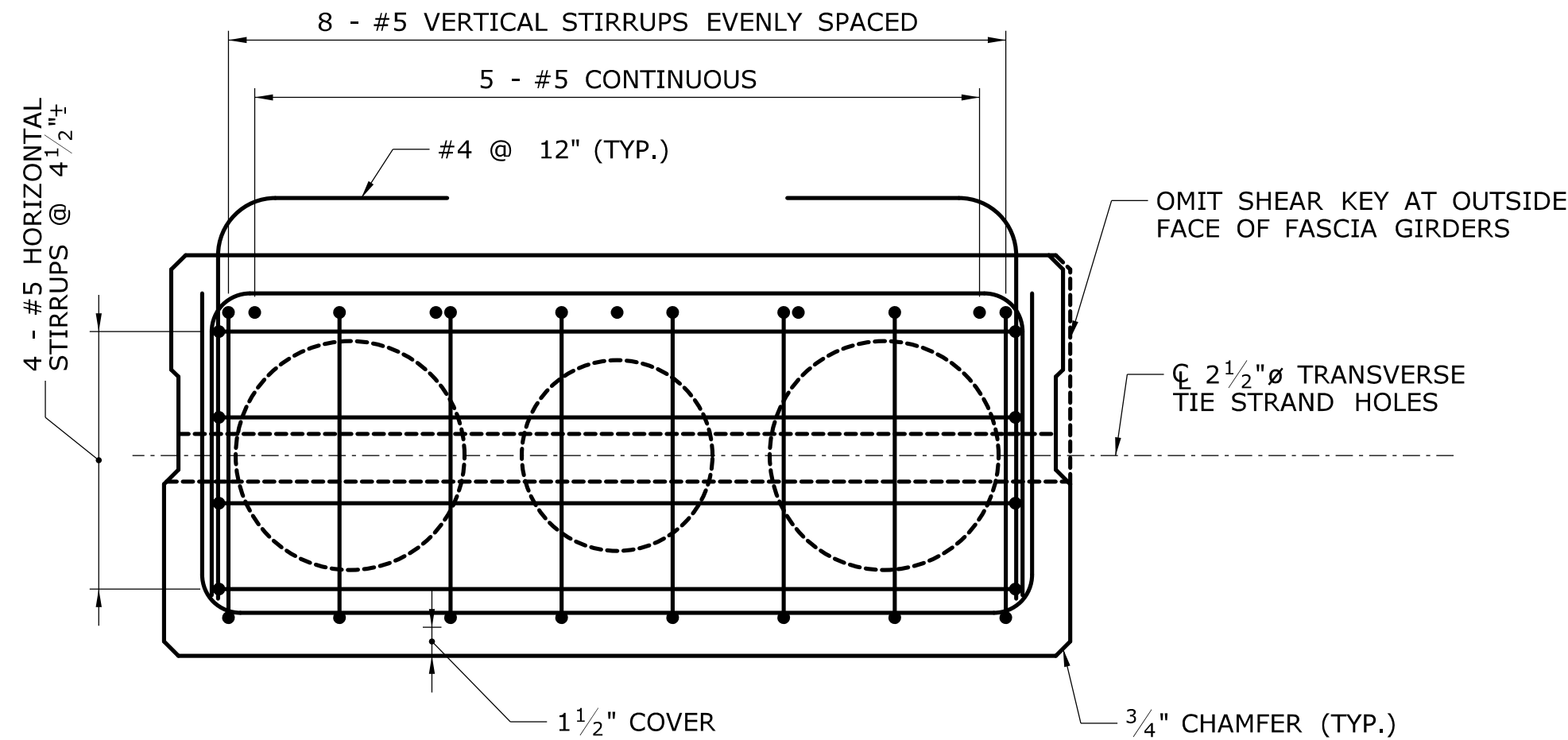
SCALE: $\frac{3}{4}" = 1'-0"$



SIV-48 SHOWN (SIV-48 VE1,2,3 SIMILAR)

SIV-48 SECTION AT VOIDS

SCALE: $1\frac{1}{2}" = 1'-0"$



SIV-48 SHOWN (SIV-48 VE1,2,3 SIMILAR)

SIV-48 SECTION AT END

SCALE: $1\frac{1}{2}" = 1'-0"$

BEAM NOTES:

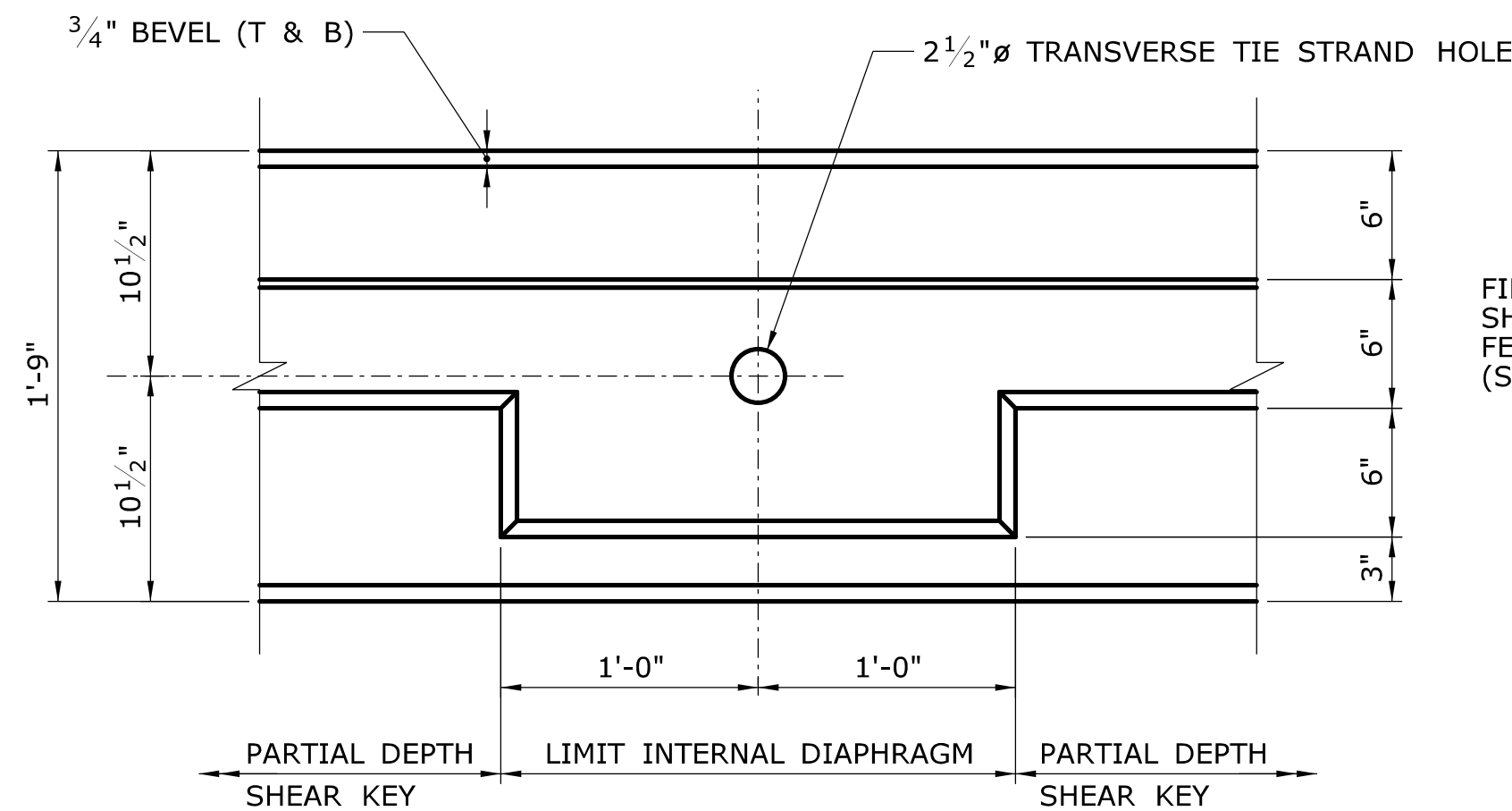
- 2 1/4" COVER SHOWN IS REQUIRED TO FACILITATE THE PLACEMENT OF THE BOTTOM ROW OF PRESTRESSING STRANDS. THE FABRICATOR MAY MODIFY COVER TO A MINIMUM OF 1 1/2" IF NO CONFLICTS EXIST WITH THE PRESTRESSING STRANDS.
- EXTEND LONGITUDINAL LEGS TO A MINIMUM DISTANCE EQUAL TO THE DEPTH OF THE BEAM OR 12" INTO THE WEB OF THE VOIDED SECTION, WHICHEVER IS LARGER.
- HORIZONTAL LEGS OF THE VERTICAL STIRRUPS ARE EQUAL TO THE DEPTH OF THE BEAM.
- THE VERTICAL LOCATION OF THE TRANSVERSE TIE STRANDS MUST BE COORDINATED WITH THE LOCATION OF THE PRESTRESSED STRANDS AND ADJUSTED AS NECESSARY BY THE FABRICATOR.
- THE SLAB UNITS SHALL BE PLACED AT THE NOMINAL SPACING SHOWN ON THE PLAN WITH A GAP BETWEEN UNITS. THE WIDTH OF THE GAPS WILL VARY DUE TO THE SWEEP OF THE UNITS.
- GROUT FOR THE SHEAR KEYS SHALL BE RODDED OR VIBRATED TO ENSURE THAT ALL VOIDS IN THE SHEAR KEYS ARE FILLED.
- TRANSVERSE TIES SHALL BE COVERED BY A SEAMLESS POLYPROPYLENE SHEATH, WITH CORROSION INHIBITING GREASE BETWEEN THE STRAND AND SHEATH, FOR THE FULL LENGTH OF THE STRAND EXCEPT AT THE ANCHORAGE LOCATION.
- OTHER TRANSVERSE ANCHORAGE SYSTEMS MAY BE SUBMITTED WITH THE APPROVAL OF THE ENGINEER. ALTERNATE ANCHORAGE SYSTEMS SHALL BE WATERTIGHT AND CORROSION PROOF.
- THE DRILLING OF HOLES IN (OR THE USE OF POWER ACTUATED TOOLS ON) PRESTRESSED MEMBERS WILL NOT BE PERMITTED.

TRANSVERSE STRAND POST-TENSIONING PROCEDURE:

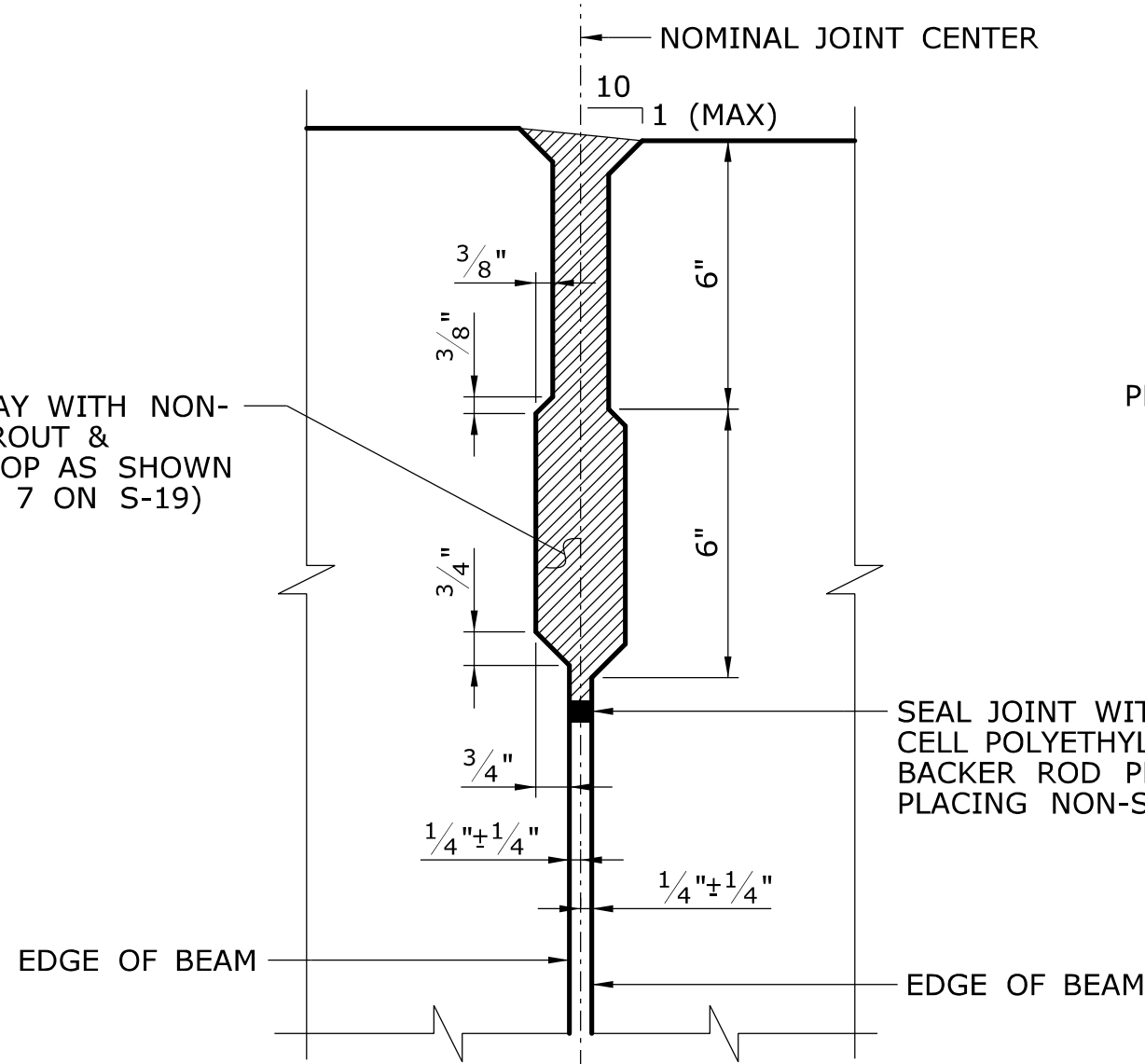
- AFTER ERECTING THE PRESTRESSED VOIDED SLABS FOR THE CONSTRUCION STAGE, INSTALL THE TRANSVERSE TIES.
- TENSION EACH TRANSVERSE TIE TO 5 KIPS.
- SEAL THE BOTTOM OF THE LONGITUDINAL SHEAR KEYS WITH CLOSED CELL POLYETHYLENE FOAM BACKER ROD AND PLACE NON-SHRINK GROUT IN THE LONGITUDINAL SHEAR KEYS AND INTERNAL DIAPHRAGMS. THE GROUT SHALL BE RODDED OR VIBRATED TO ENSURE THAT ALL THE VOIDS IN THE SHEAR KEYS ARE FILLED.
- WHEN THE GROUT HAS ATTAINED A COMPRESSIVE STRENGTH OF 1500 PSI, AT EACH TRANSVERSE TIE LOCATION, TENSION THE TIE TO 15 KIPS. REPEAT THIS TENSIONING SEQUENCE ONCE MORE SO THAT EACH TIE IS TENSIONED TO 30 KIPS.
- NO DEAD LOADS OR LIVE LOADS SHALL BE APPLIED TO THE BUTTED VOIDED SLABS UNTIL THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED AND THE GROUT IN THE LONGITUDINAL SHEAR KEYS HAS REACHED A SEVEN-DAY COMPRESSIVE STRENGTH OF 4500 PSI.

SEMI FINAL DESIGN REVIEW

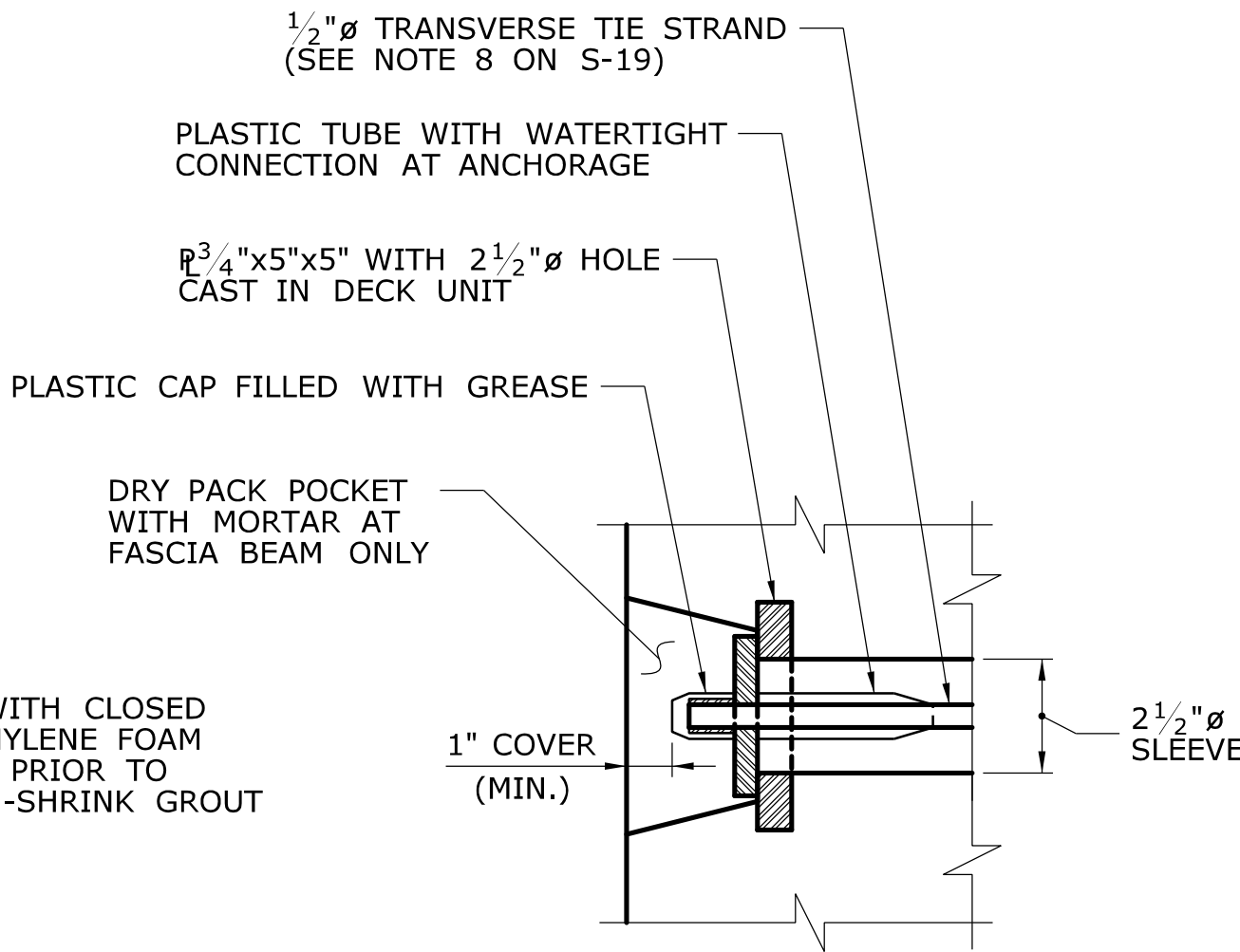
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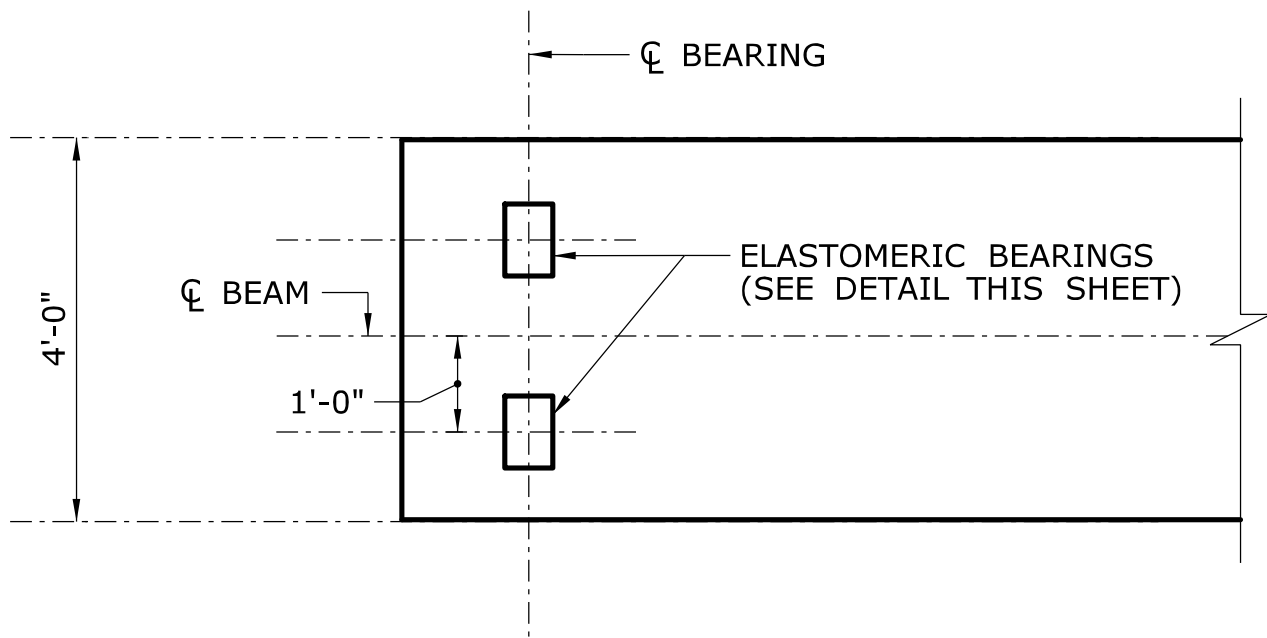
SHEAR KEY AT DIAPHRAGMS
SCALE: 1 1/2" = 1'-0"



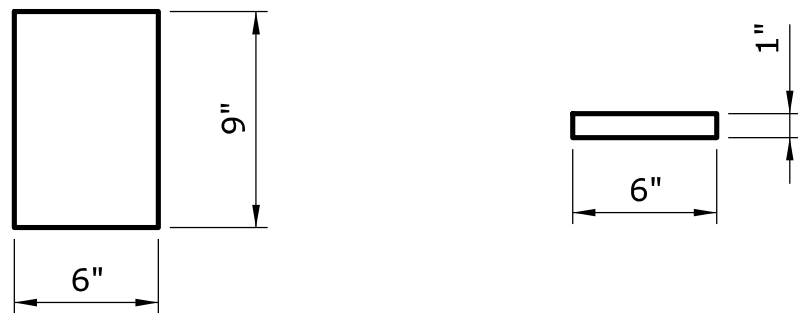
TYPICAL LONGITUDINAL JOINT
SCALE: 3" = 1'-0"



TRANSVERSE TIE POCKET DETAIL
SCALE: 3" = 1'-0"



TYPICAL BEARING LAYOUT
SCALE: 1/2" = 1'-0"



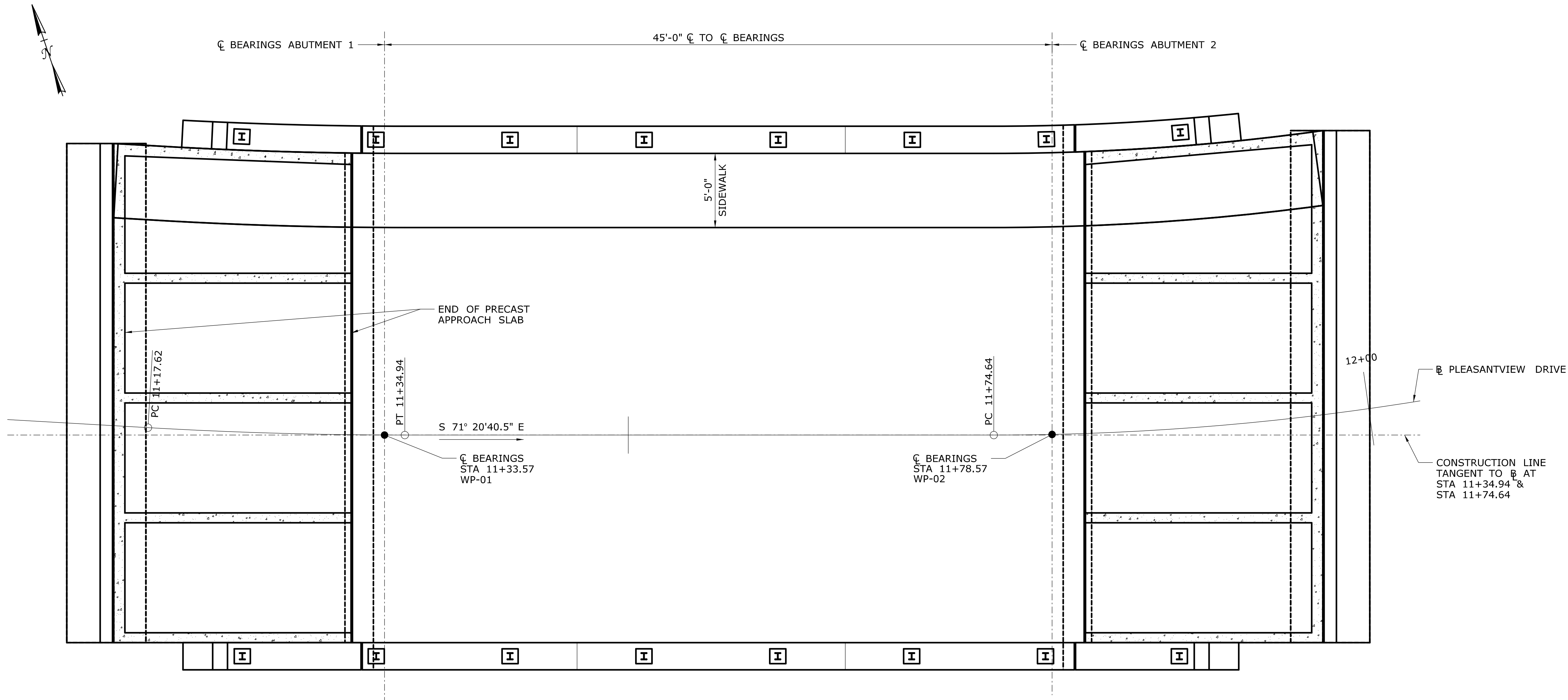
ELASTOMERIC BEARING PAD
SCALE: 1 1/2" = 1'-0"

ELASTOMERIC BEARING NOTES:

1. THE ELASTOMERIC BEARINGS ARE DESIGNED USING "METHOD A" OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
2. THE CONTRACTOR SHALL SURVEY THE AS BUILT BRIDGE SEAT MEASUREMENTS AND SUBMIT TO THE ENGINEER FOR REVIEW PRIOR TO BEAM ERECTION.
3. THE ELASTOMER SHALL CONTAIN ONLY VIRGIN POLYCHLOROPRENE (NEOPRENE) AS THE RAW POLYMER AND HAVE A SPECIFIED SHEAR MODULUS BETWEEN 0.08 KSI AND 0.175 KSI.
10. THE ELASTOMERIC BEARINGS SHALL BE INSTALLED WHEN THE AMBIENT AIR AND BEARING TEMPERATURES ARE BETWEEN 40° F AND 85° F AND HAVE BEEN WITHIN THIS RANGE FOR AT LEAST TWO HOURS.
11. THE COST OF FURNISHING AND INSTALLING THE ELASTOMERIC BEARINGS SHALL BE PAID FOR UNDER THE ITEM "ELASTOMERIC BEARING PADS."
12. THE MAXIMUM UNFACTORED DESIGN LOAD (DL + LL WITHOUT IMPACT) FOR EACH BEARING PAD IS 30 KIPS. THIS INFORMATION IS PROVIDED FOR THE PROOF LOAD TEST DESCRIBED IN THE SPECIFICATIONS.


SEMI FINAL DESIGN REVIEW

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B5																							
B6																							
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B8																							
B9																							

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017	DESIGNER/DRAFTER: JRA CHECKED BY: AML SCALE AS NOTED	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\S-17_DECK_ELEVATIONS.dgn	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER	TOWN: VERNON DRAWING TITLE: DECK ELEVATIONS	PROJECT NO. 146-200 DRAWING NO. S-17 SHEET NO. 04.17
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SCALE: $\frac{3}{4}" = 1'-0"$



NOT TO SCALE

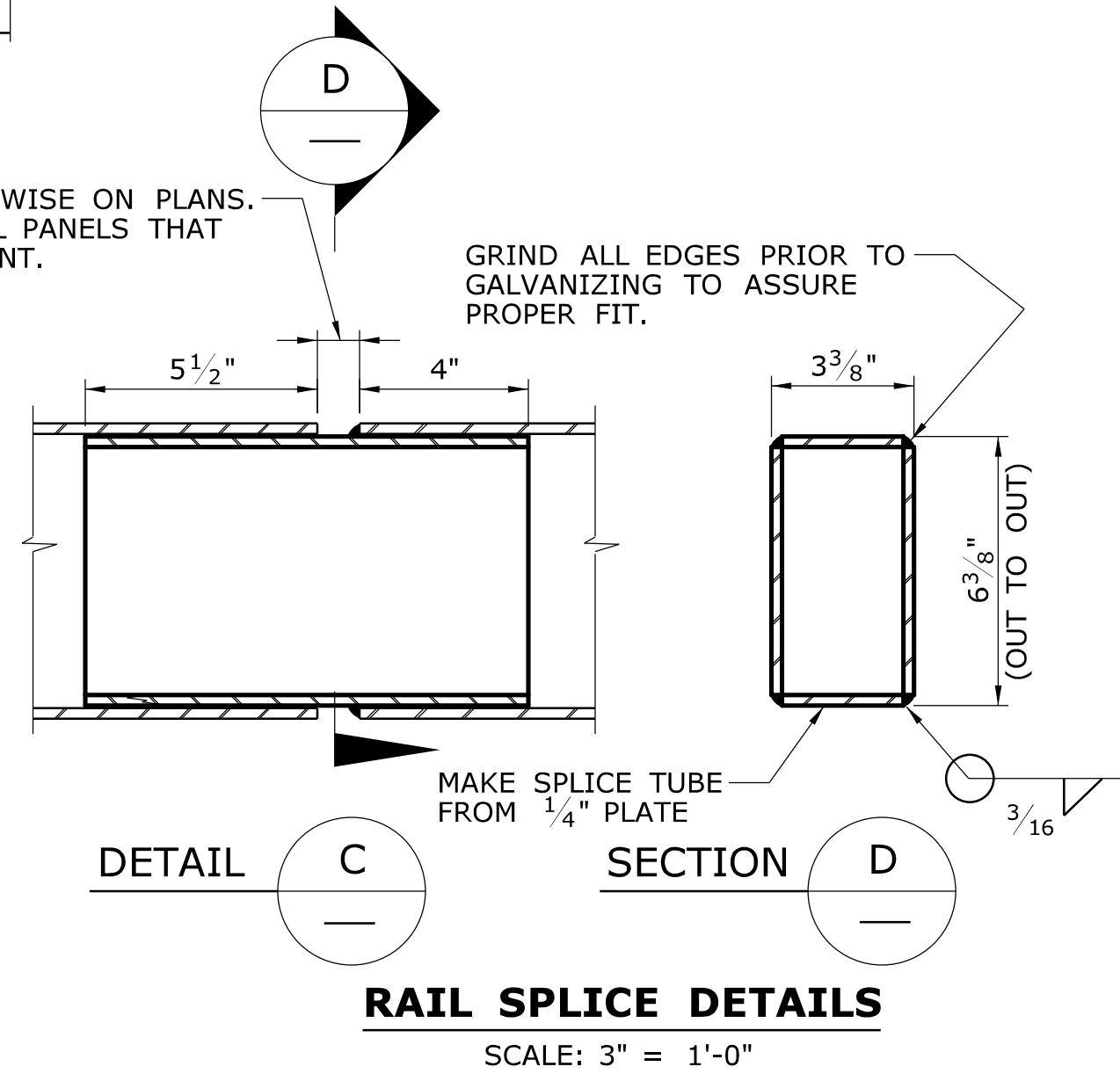
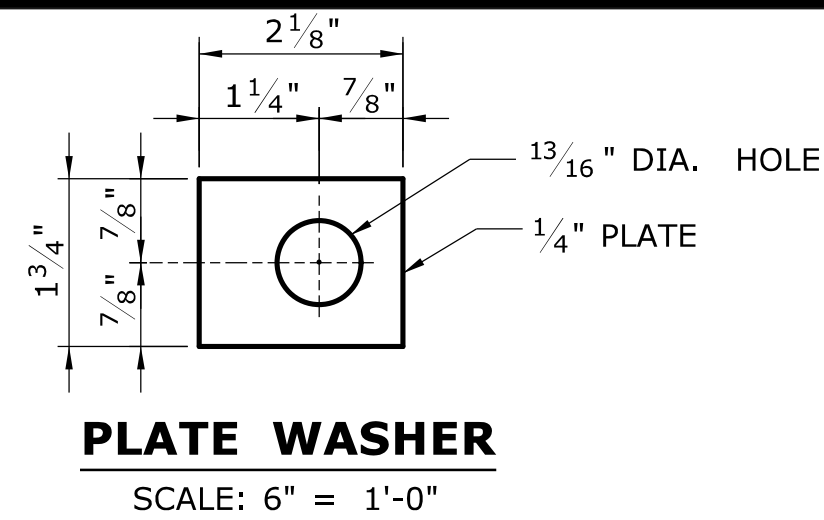
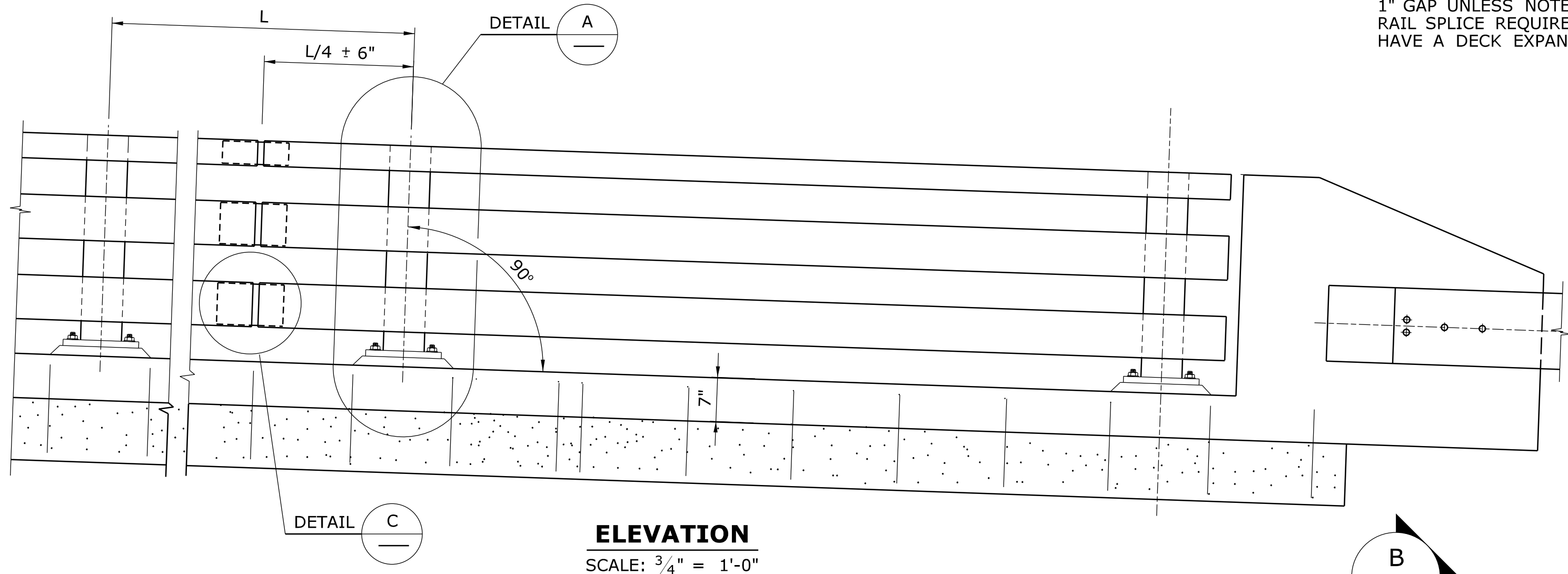
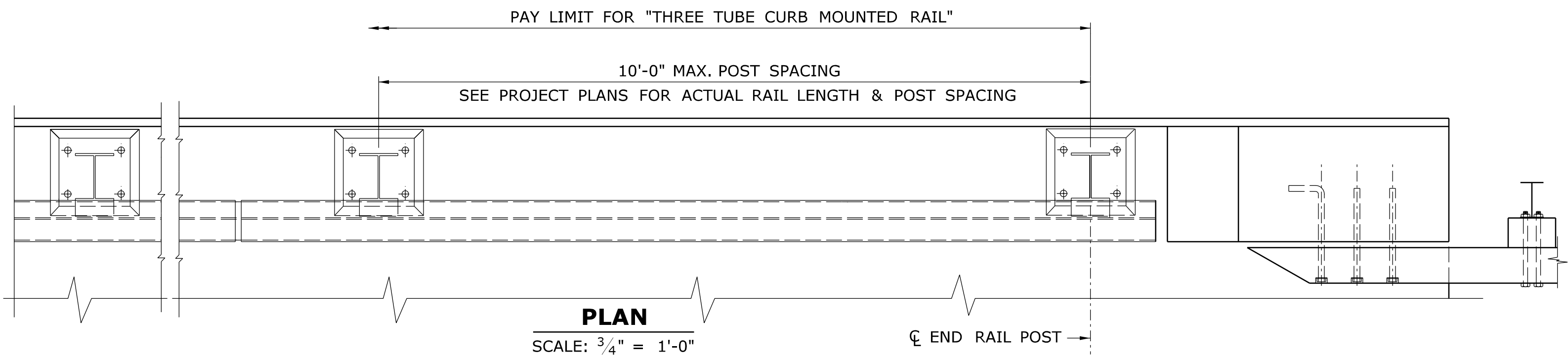
1. REMOVE NEW BITUMINOUS CONCRETE OVERLAY AND MEMBRANE WATERPROOFING, REPLACE WITH ASPHALTIC PLUG EXPANSION JOINT SYSTEM, TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM" (SEE SPECIAL PROVISIONS).
2. REFER TO SPECIAL PROVISIONS FOR TEMPERATURE REQUIREMENTS DURING INSTALLATION OF ASPHALTIC PLUG EXPANSION JOINTS.
3. SEALING OF PARAPET JOINTS SHALL BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM."
4. SEE TABLE FOR MAXIMUM DESIGN THERMAL MOVEMENT RANGE.
5. THE CLOSED CELL BACKER ROAD SHALL BE PLACED A MINIMUM OF 2" FROM THE OUTSIDE FACE OF THE PARAPET.
6. THE NON-SAGGING SILICONE SEALANT SHALL BE PLACED ON THE BACKER ROD $\frac{1}{2}$ " THICK, AT THE GUTTER, THE SILICONE SEALANT SHALL BE PLACED FLUSH WITH THE OUTSIDE FACE OF CONCRETE.
7. PRIOR TO INSTALLING SILICONE SEALANT, CLEAN JOINT SIDES BY SANDBLASTING. DUST SHALL BE REMOVED BY THE METHOD APPROVED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM" (SEE SPECIAL PROVISIONS).

THERMAL MOVEMENT	
LOCATION	MOVEMENT RANGE
ABUT. 1	$\frac{1}{2}$ "
ABUT. 2	$\frac{1}{2}$ "



SCALE: $\frac{3}{4}" = 1'-0"$

[illegible]



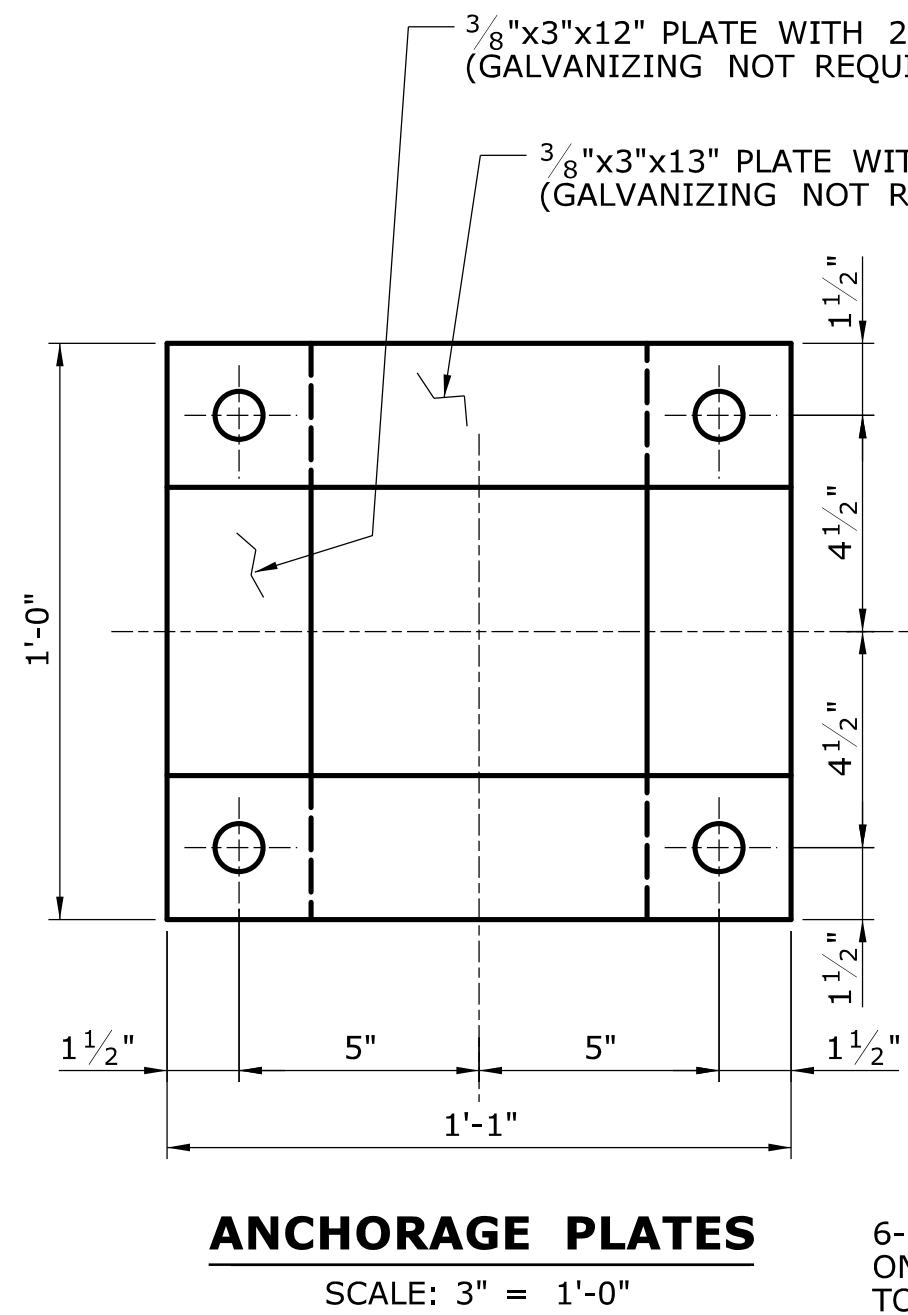
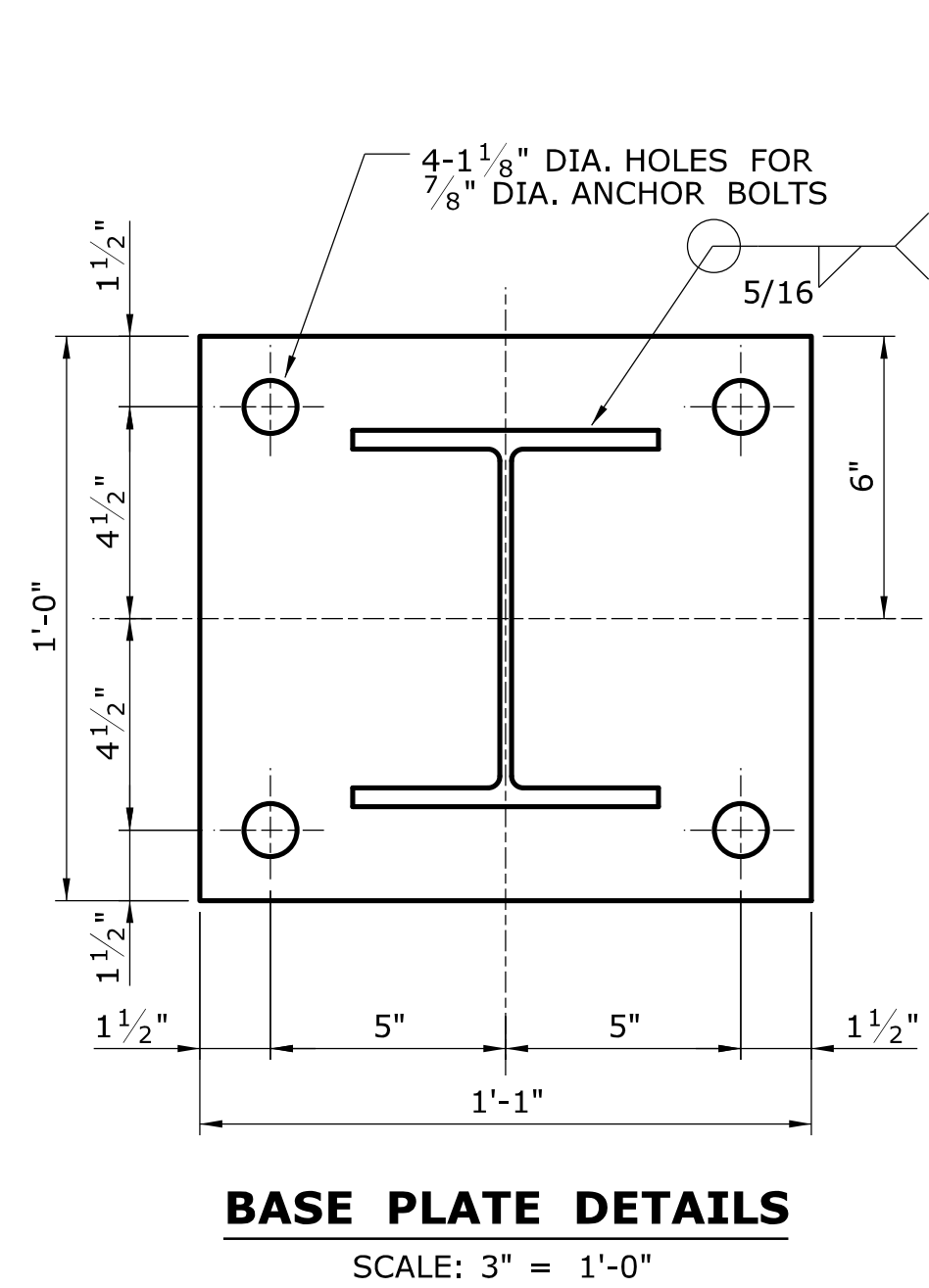
NOTES:

THIS SHEET IS BASED ON A DESIGN DEVELOPED BY THE OREGON DEPARTMENT OF TRANSPORTATION WHICH MET ALL THE EVALUATION CRITERIA FOR AN NCHRP REPORT 350 BRIDGE RAIL AT TEST LEVEL 4 (TL-4). THIS DESIGN WAS TESTED BY THE TEXAS TRANSPORTATION INSTITUTE TO NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 TEST LEVEL 4 (TL-4) AND DOCUMENTED IN THREE SEPARATE REPORTS, ALL DATED MAY 2000, ENTITLED "NCHRP REPORT 350 TEST 4-10 OF THE OREGON 3-TUBE BRIDGE RAIL", "NCHRP REPORT 350 TEST 4-11 OF THE OREGON 3-TUBE BRIDGE RAIL", AND "NCHRP REPORT 350 TEST 4-12 OF THE OREGON 3-TUBE BRIDGE RAIL", RESPECTIVELY. THIS SYSTEM WAS ACCEPTED FOR USE ON THE NATIONAL HIGHWAY SYSTEM (NHS) BY THE FHWA BY MEMORANDUM DATED APRIL 22, 2003.

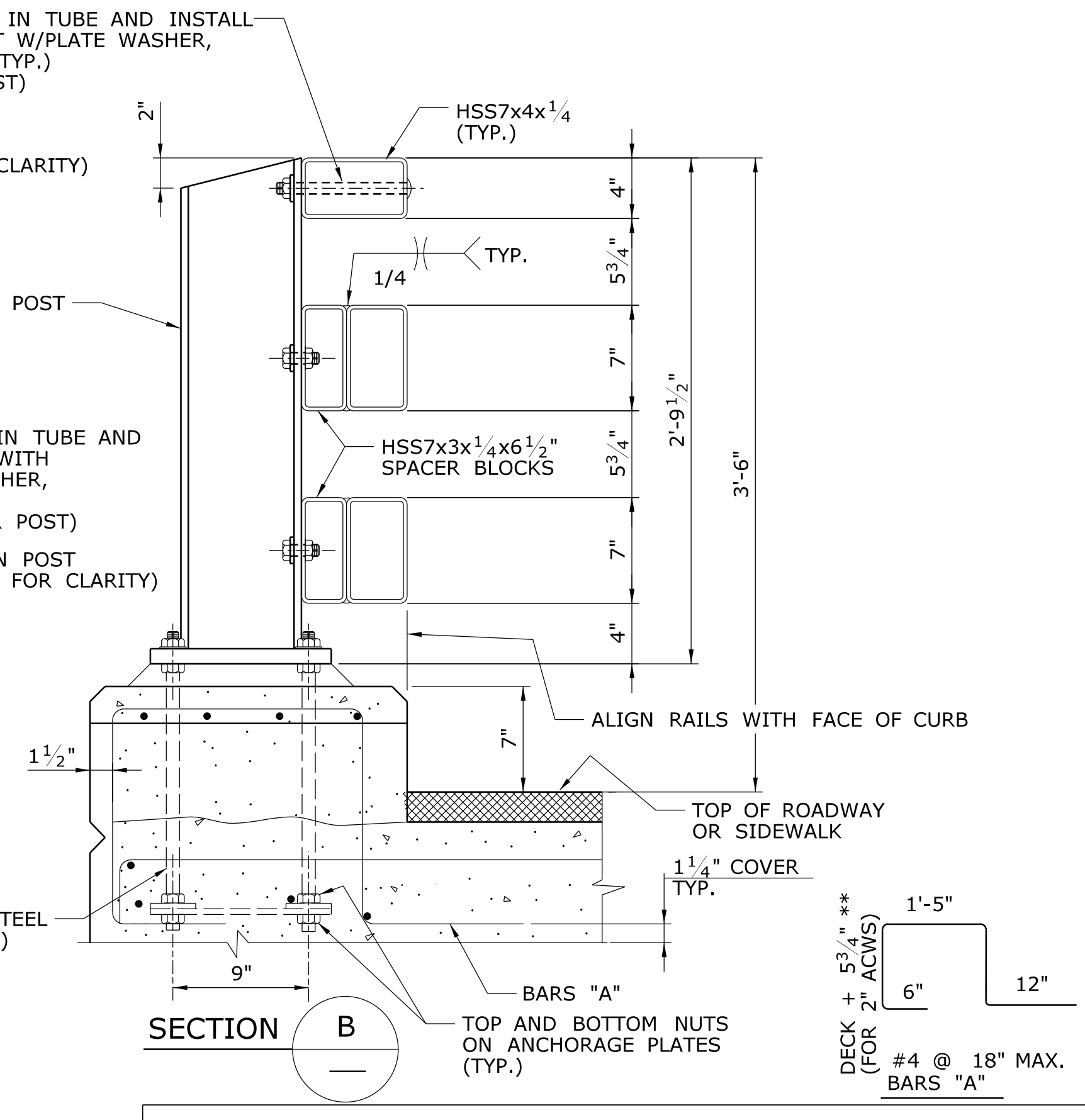
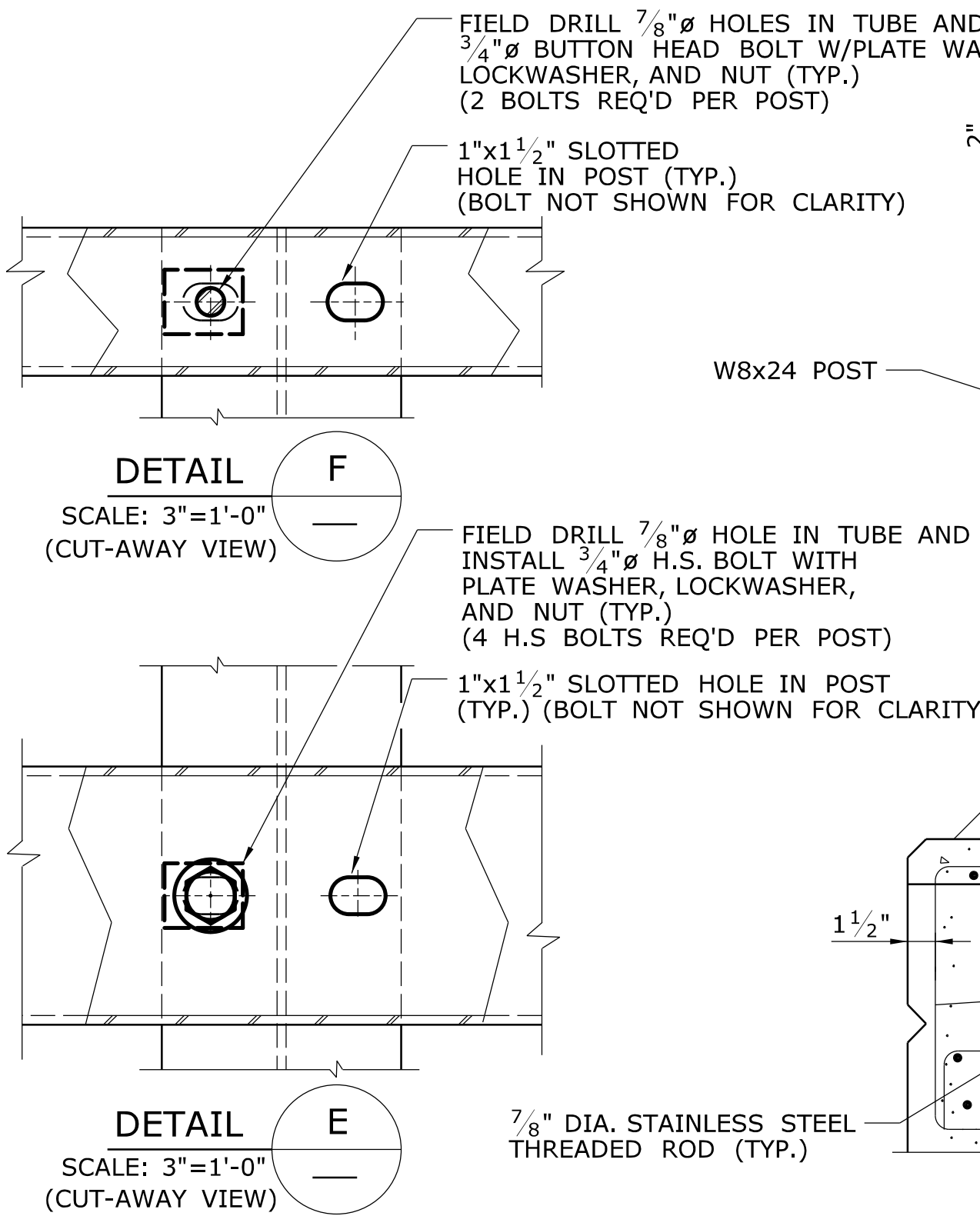
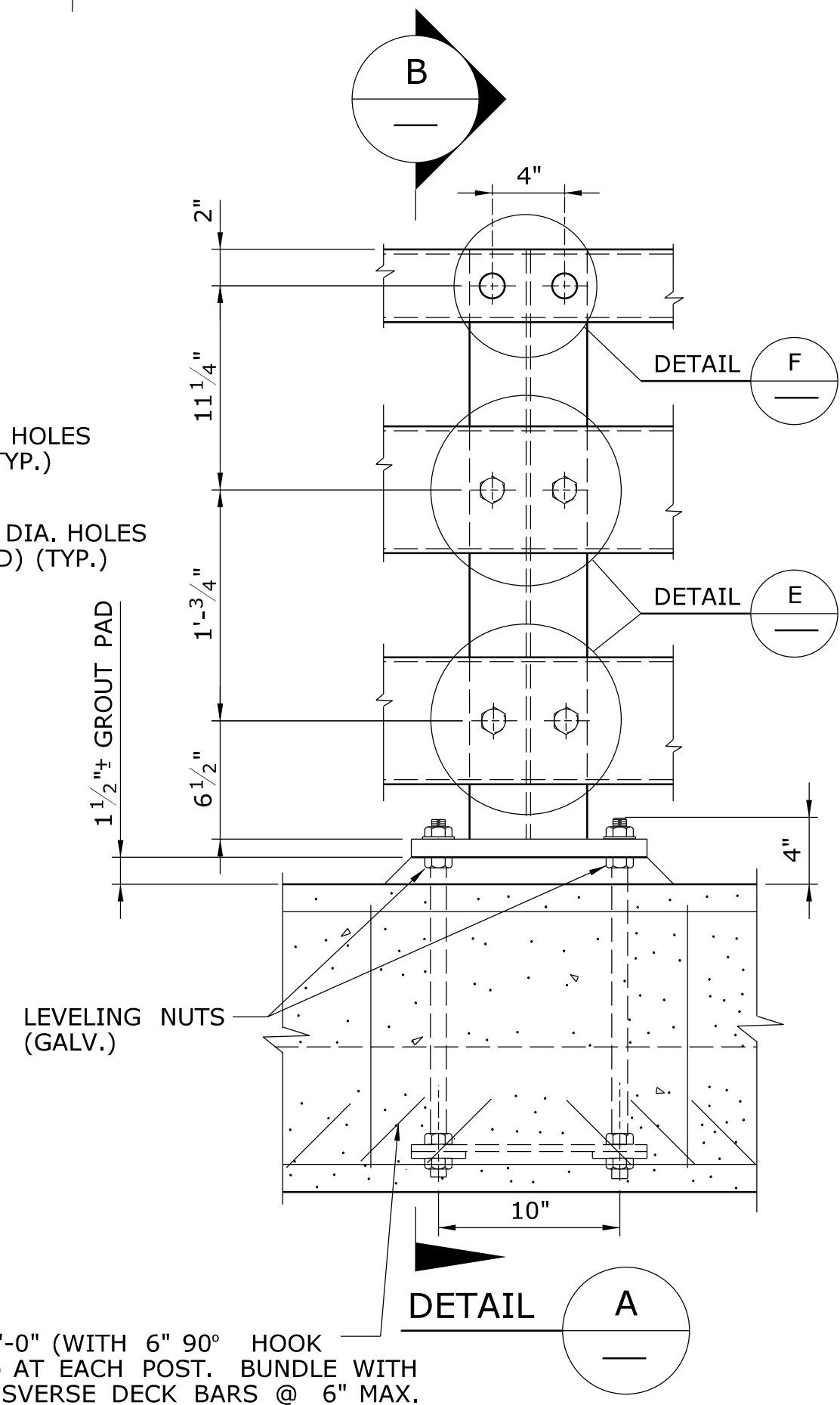
THIS RAIL SYSTEM IS ACCEPTABLE FOR USE AS A TL-4 RAIL SYSTEM AS A TRAFFIC RAIL (ADJACENT TO VEHICULAR TRAFFIC) AND ALSO AS A COMBINATION BARRIER (ALONG OUTER EDGES OF BRIDGE SIDEWALKS) AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

FABRICATE RAILS TO THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE STRUCTURE. INSTALL POSTS NORMAL TO GRADE.

WEIGHT: WEIGHT OF SYSTEM IS 70 POUNDS PER LINEAR FOOT. THIS INCLUDES WEIGHT OF THE POSTS AT AN ASSUMED SPACING OF 8' BUT NOT THE WEIGHT OF THE CONCRETE CURB.



6-#5 X 5'-0" (WITH 6" 90° HOOK ONE END) AT EACH POST. BUNDLE WITH TOP TRANSVERSE DECK BARS @ 6" MAX. SLANT HOOK AS REQUIRED



SEMI FINAL DESIGN REVIEW

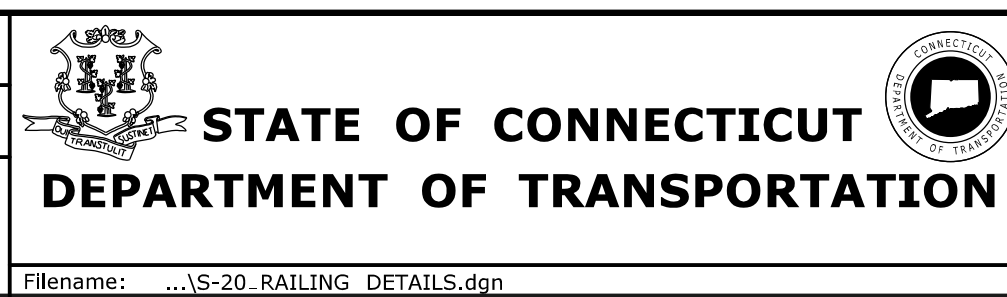
REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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: **JMB**

CHECKED BY: **AML**

SCALE AS NOTED



SIGNATURE/BLOCK:

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER

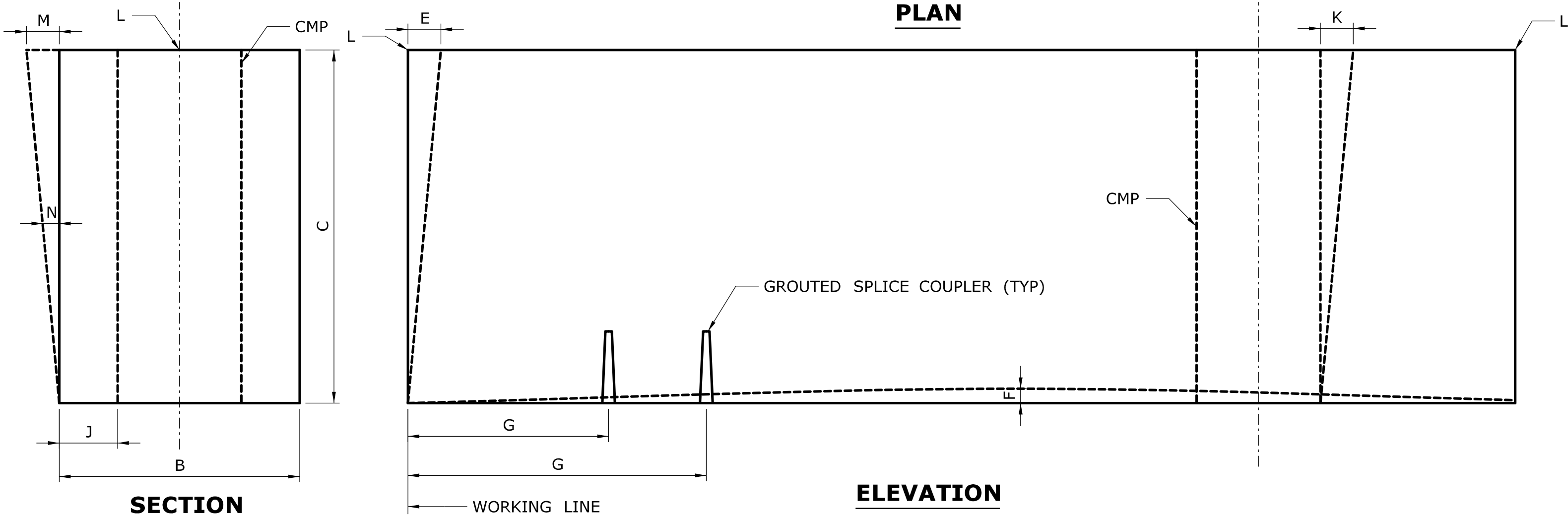
TOWN: **VERNON**

DRAWING TITLE: **RAILING DETAILS**

PROJECT NO. **146-200**

DRAWING NO. **S-20**

SHEET NO. **04.20**



WALL SEGMENT ERECTION AND FABRICATION TOLERANCES

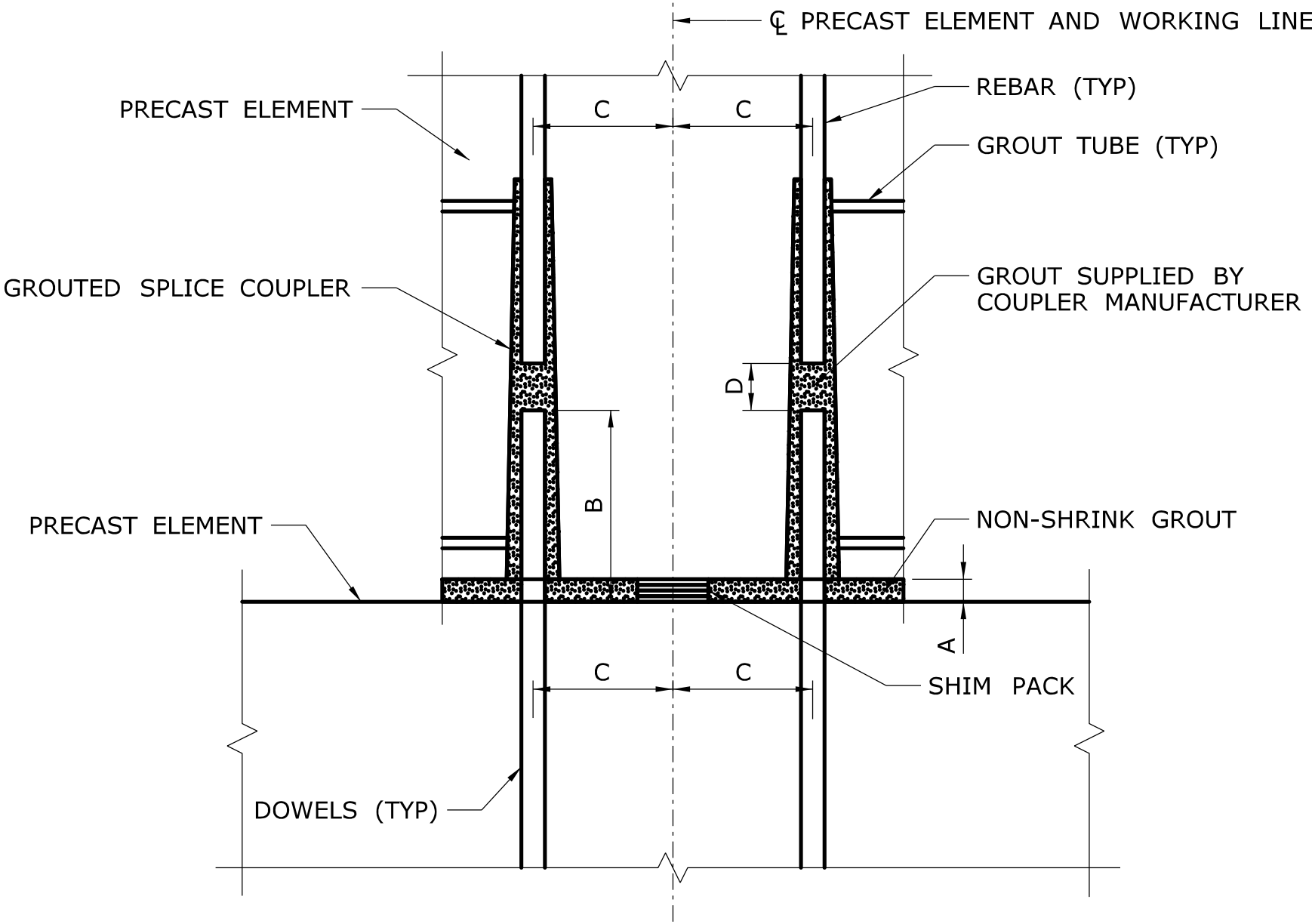
NOT TO SCALE

WALL SEGMENT ELEVATION ERECTION TOLERANCES		
L	TOP ELEVATION FROM NOMINAL TOP ELEVATION	1/4"
M	MAXIMUM PLUMB VARIATION OVER HEIGHT OF PANEL	1/2"
N	PLUMB IN ANY 10 FEET OF PANEL HEIGHT	1/4"

WALL SEGMENT FABRICATION TOLERANCES		
A	LENGTH	$\pm 1/4"$
B	WIDTH (OVERALL)	$\pm 1/4"$
C	DEPTH (OVERALL)	$\pm 1/4"$
D	VARIATION FROM SPECIFIED PLAN END SQUARENESS OR SKEW	$\pm 1/2"$
E	VARIATION FROM SPECIFIED ELEVATION END SQUARENESS OR SKEW	$\pm 1/2"$
F	SWEEP OVER MEMBER LENGTH	$\pm 3/8"$
G	LOCATION OF GROUTED SPLICE COUPLER MEASURED FROM A WORKING LINE	$\pm 1/4"$
H	LOCAL SMOOTHNESS OF ANY SURFACE	$\pm 1/4"$ IN 10 FEET
J	LOCATION OF BLOCKOUT FOR PILES OR VOIDS	$\pm 1/2"$
K	MAXIMUM PLUMB VARIATION OVER HEIGHT OF CMP VOID	$\pm 1/2"$

GROUTED SPLICE COUPLER TOLERANCES		
A	SHIM PACK HEIGHT	$1\frac{1}{4}" \pm \frac{3}{4}"$
B	DOWEL HEIGHT	CONSULT MANUFACTURER
C	LOCATION OF REINFORCING, GROUTED SPLICE COUPLER, AND DOWELS MEASURED FROM A WORKING LINE	$\pm \frac{1}{4}"$
D	GAP BETWEEN DOWELS AND REINFORCING	CONSULT MANUFACTURER

- NOTES:
1. USE MATCHING TEMPLATES FOR THE LOCATION OF REINFORCEMENT AND GROUTED SPLICE COUPLER PLACEMENT WITHIN THE ELEMENTS TO CONTROL THE CRITICAL DIMENSION "C".
 2. CONSULT MANUFACTURER OF THE GROUTED SPLICE COUPLER FOR PROPER DIMENSIONS "B" AND "D" AND FOR TOLERANCES ON THESE AND ALL DIMENSIONS.
 3. BEFORE EXECUTING GROUTED SPLICE COUPLER ASSEMBLIES, ALWAYS SEEK INSTALLATION RECOMMENDATIONS FROM THE MANUFACTURER OF THE GROUTED SPLICE COUPLER USED.




GROUTED SPLICE COUPLER DETAILS

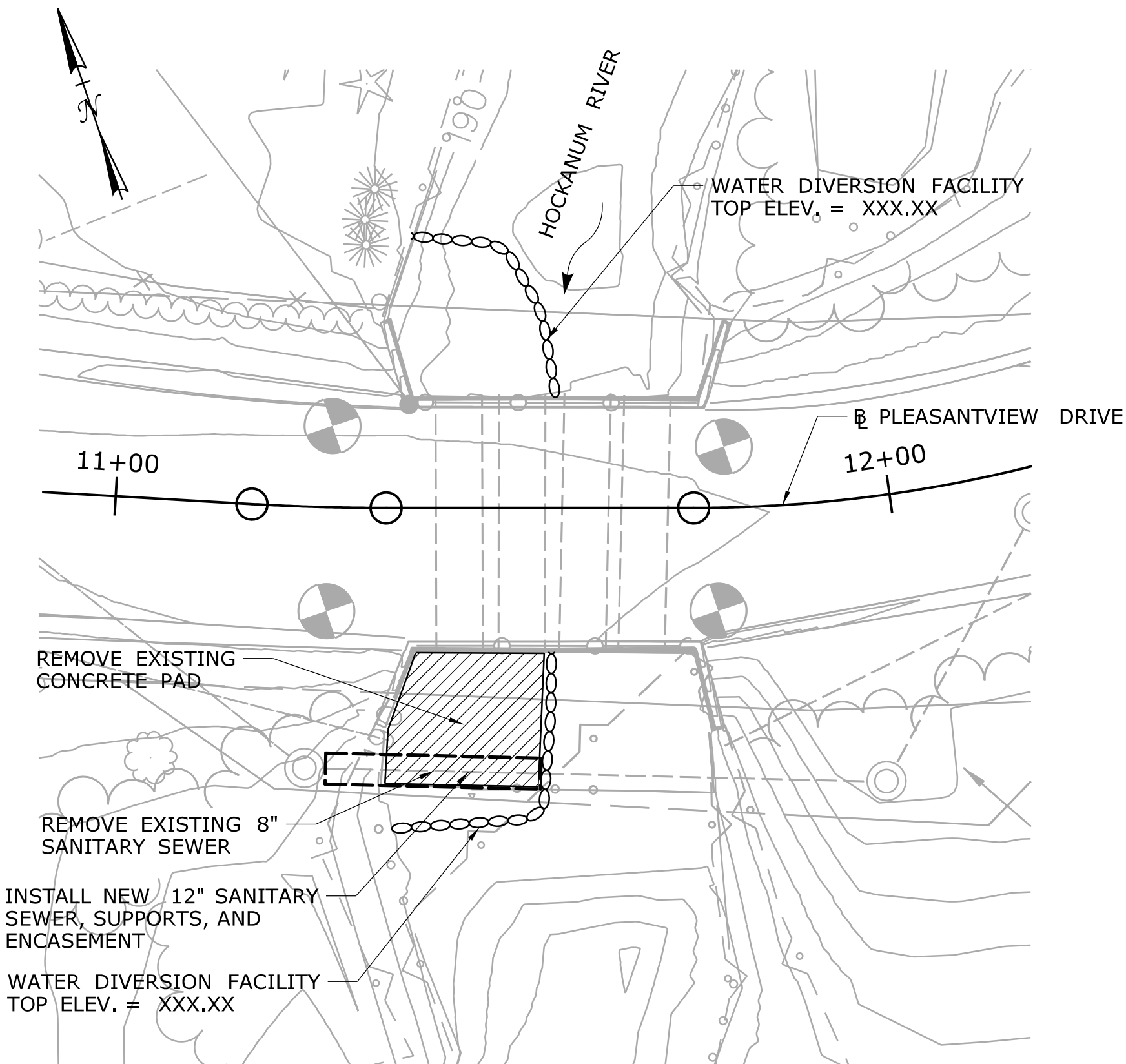
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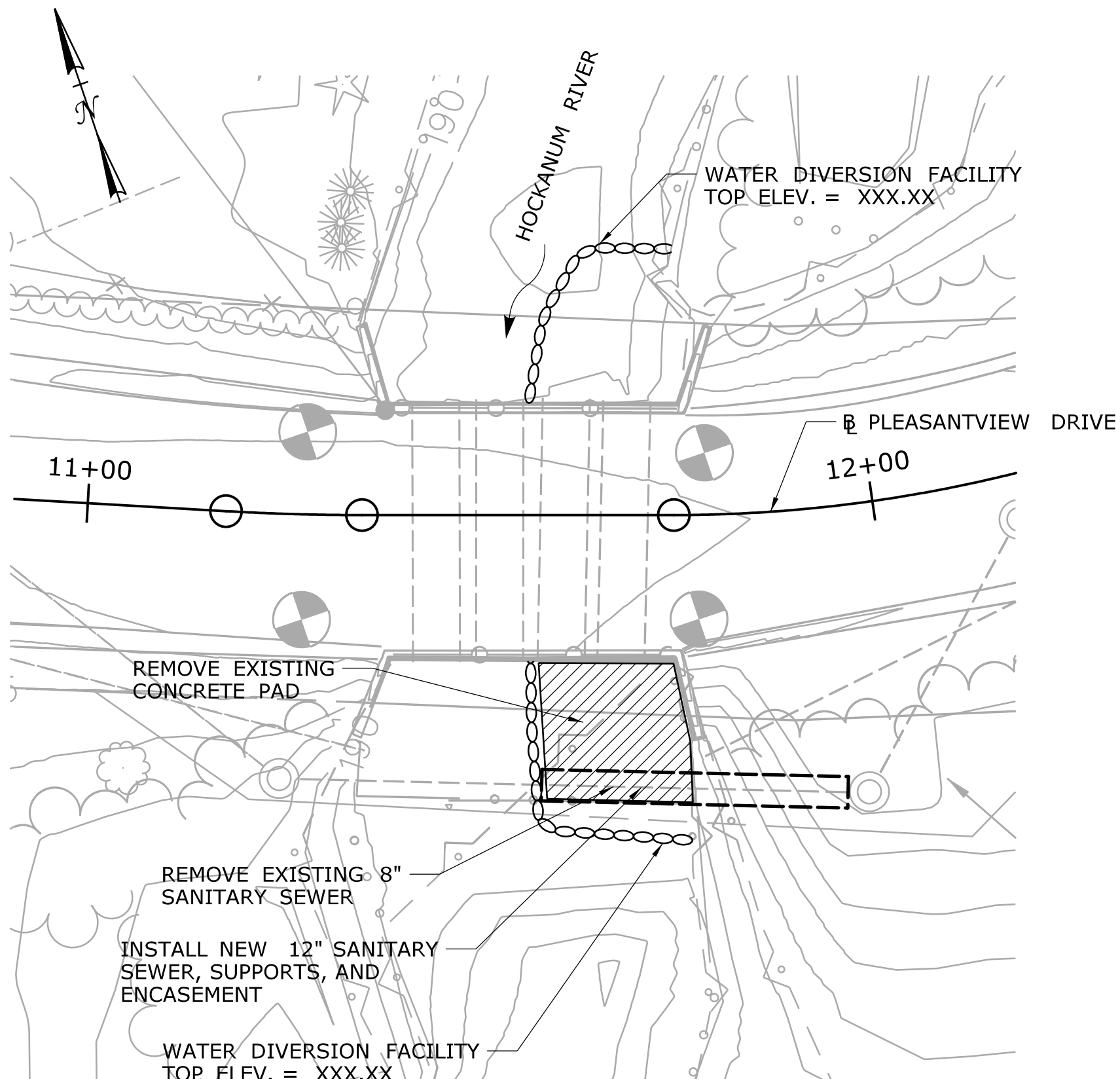
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				SCALE AS NOTED	DRAWING TITLE: INDEX OF DRAWINGS					DRAWING NO. UTL-01	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/19/2017	Filename: ...\\UTL-01_INDEX OF DRAWINGS.dgn						SHEET NO. 05.01

TEMPORARY HYDRAULIC DATA	
AVERAGE DAILY FLOW	XX CFS
AVERAGE SPRING FLOW	XX CFS
2-YEAR FREQUENCY DISCHARGE	XXX CFS
TEMPORARY DESIGN DISCHARGE	XXX CFS
TEMPORARY DESIGN FREQUENCY	XX-YEAR
TEMPORARY WATER SURFACE EL. UPSTREAM	XXX.XX FT
TEMPORARY WATER SURFACE EL. DOWNSTREAM	XXX.XX FT



PHASE 1 PLAN
SCALE: 1/16" = 1'-0"



PHASE 2 PLAN
SCALE: 1/16" = 1'-0"

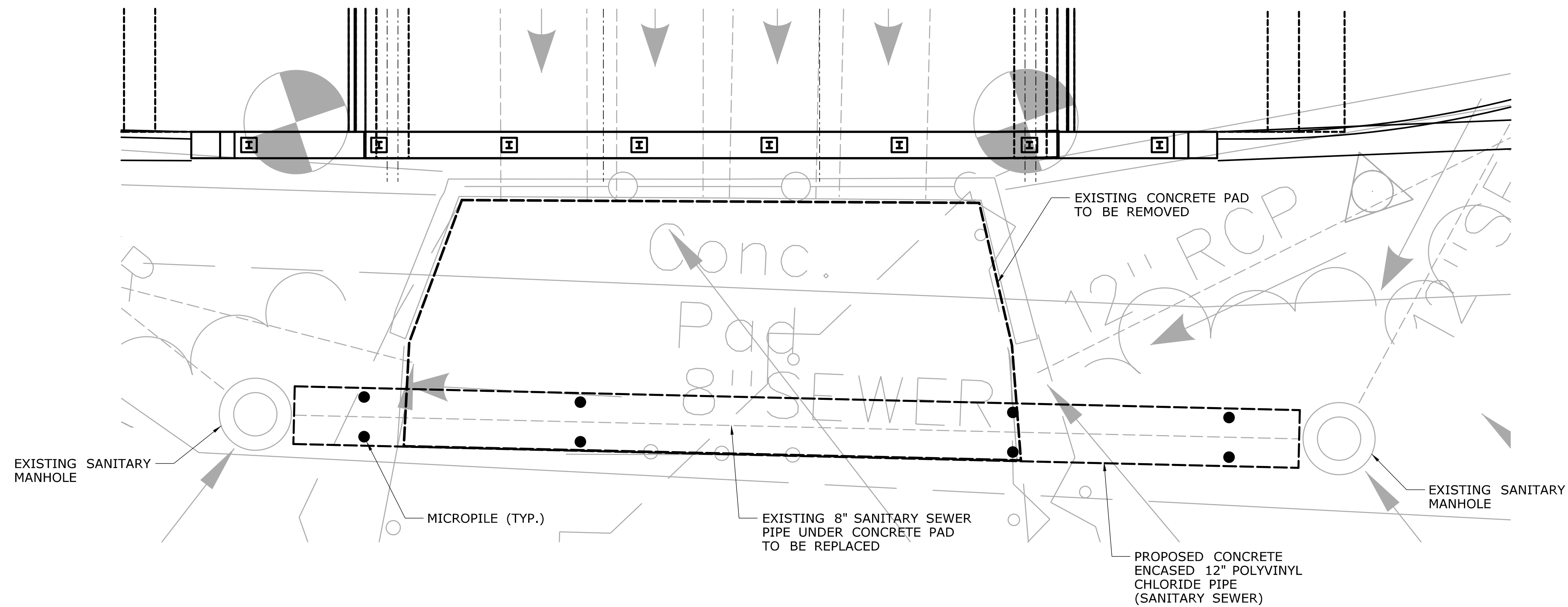
SUGGESTED SEQUENCE OF CONSTRUCTION

- PHASE 1:
1. INSTALL WATER DIVERSION FACILITY AROUND THE WEST WINGWALLS AND THE WESTERN TWO CORRUGATED METAL PIPES.
 2. DEWATER WORK AREA BEHIND WATER DIVERSION FACILITY AS REQUIRED FOR CONSTRUCTION.
 3. INSTALL PUMP TO BYPASS 8" SANITARY SEWER PIPE THAT WILL BE REPLACED.
 4. REMOVE EXISTING MASONRY AND 8" SANITARY SEWER PIPE ALONG CHANNEL BOTTOM BEHIND WATER DIVERSION FACILITY.
 5. INSTALL CONCRETE ENCASED 12" POLYVINYL CHLORIDE PIPE UP TO WATER DIVERSION FACILITY.
 6. MOVE WATER DIVERSION FACILITY AS NEEDED TO PROVIDE PHASE 2 LAYOUT.
- PHASE 2:
1. INSTALL WATER DIVERSION FACILITY AROUND THE EAST WINGWALLS AND EASTERN TWO CORRUGATED METAL PIPES.
 2. DEWATER WORK AREA BEHIND WATER DIVERSION FACILITY AS REQUIRED FOR CONSTRUCTION.
 3. REMOVE EXISTING MASONRY AND 8" SANITARY SEWER PIPE ALONG CHANNEL BOTTOM BEHIND WATER DIVERSION FACILITY.
 4. INSTALL REMAINDER OF CONCRETE ENCASED 12" POLYVINYL CHLORIDE PIPE.
 5. REMOVE PUMP FROM BYPASS AND WATER DIVERSION FACILITY.

NOTES

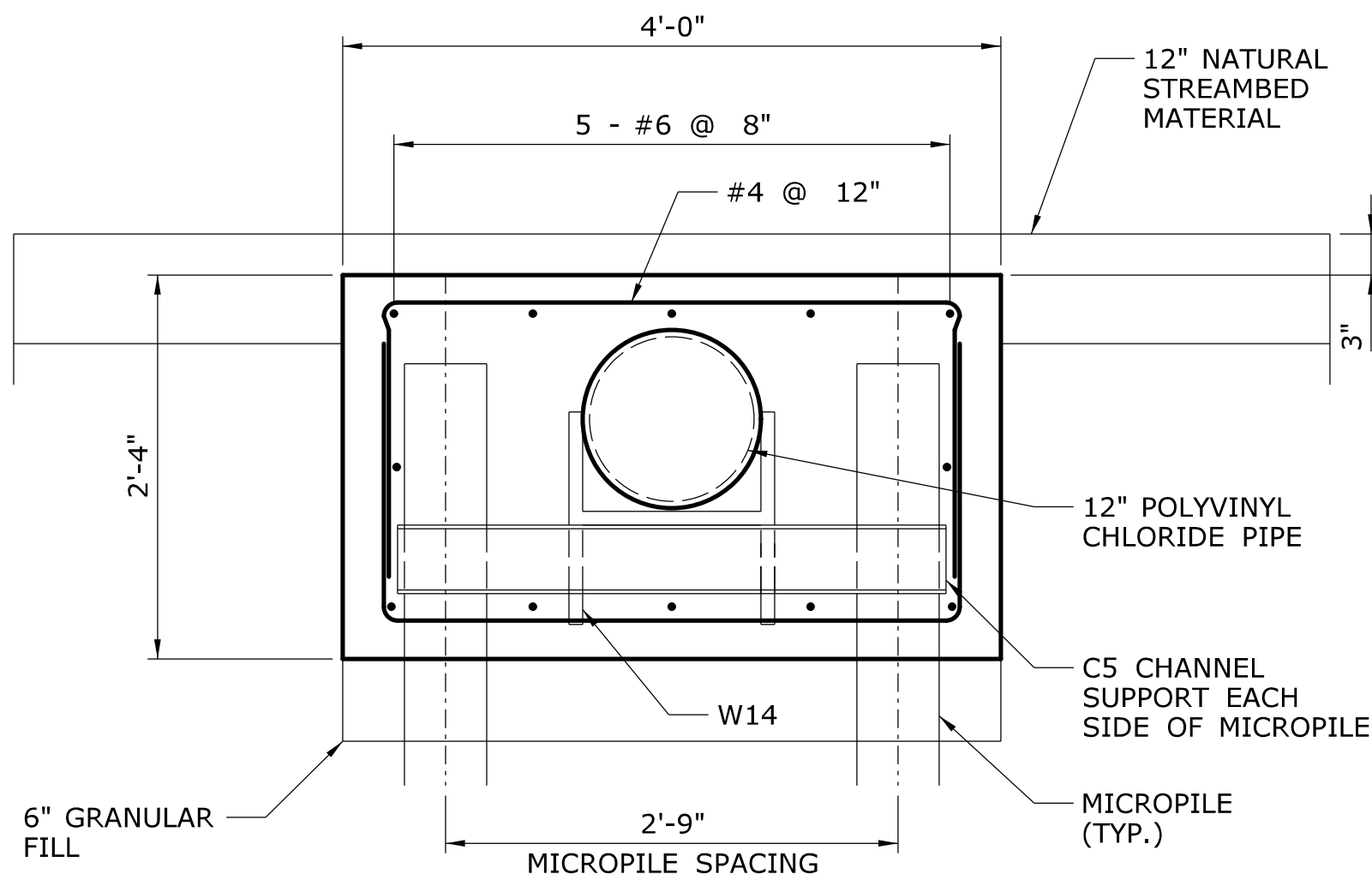
1. THE DIVERTING OF WATER TO FACILITATE REMOVAL OF THE EXISTING SEWER, AND INSTALLATION OF THE NEW SEWER AND ASSOCIATED ELEMENTS, SHALL BE INCLUDED AND PAID FOR UNDER THE ITEM "HANDLING WATER", AND WILL NOT BE MEASURED FOR PAYMENT.

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PLAN AT SOUTH END

SCALE: $\frac{3}{16}$ " = 1'-0"

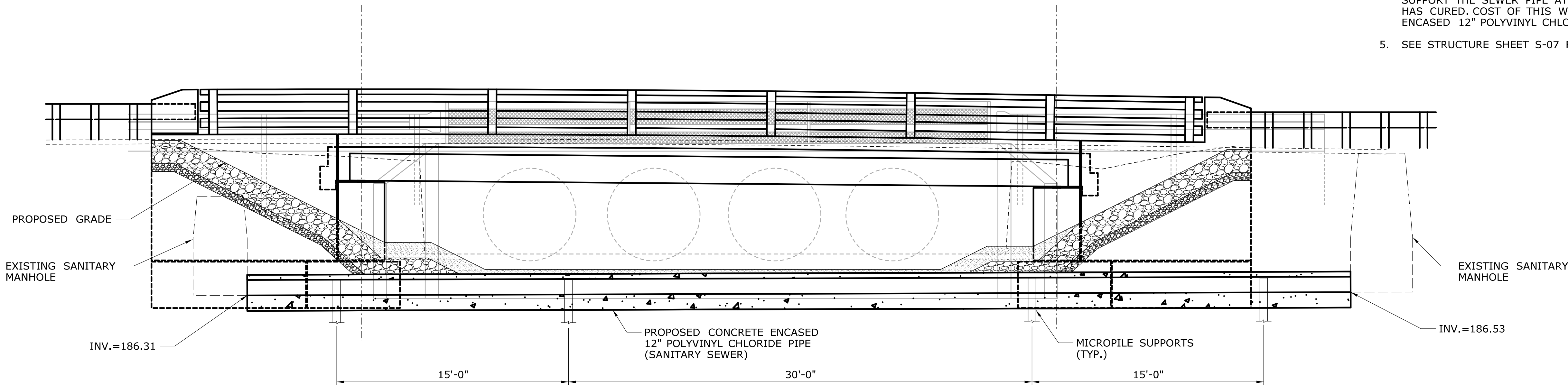


PROPOSED CONCRETE ENCASED SECTION

SCALE: 1" = 1'-0"

ENCASED SEWER PIPE NOTES:

1. THE DETAILS DEPICT THE PORTION OF PROPOSED SEWER PIPE UNDER THE WATERWAY TO BE EXTERNALLY SUPPORTED AND ENCASED IN CONCRETE. SEE SPECIAL PROVISION "CONCRETE ENCASED 12" POLYVINYL CHLORIDE PIPE (SANITARY SEWER)".
2. CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND DIMENSIONS PRIOR TO START OF WORK.
3. TEMPORARY SUPPORT OF EXCAVATION NECESSARY FOR THE INSTALLATION OF THE PROPOSED SEWER PIPE SHALL BE INCLUDED IN THE ITEM "CONCRETE ENCASED 12" POLYVINYL CHLORIDE PIPE (SANITARY SEWER)".
4. CONTRACTOR SHALL PROVIDE BLOCKING AND CRADLE, AT HIS DISCRETION, TO SUPPORT THE SEWER PIPE AT THE PROPER ELEVATION UNTIL THE ENCASED CONCRETE HAS CURED. COST OF THIS WORK SHALL BE INCLUDED IN THE ITEM "CONCRETE ENCASED 12" POLYVINYL CHLORIDE PIPE (SANITARY SEWER)".
5. SEE STRUCTURE SHEET S-07 FOR MICROPILE DETAILS.



ELEVATION AT SOUTH END

SCALE: $\frac{1}{4}$ " = 1'-0"


REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/19/2017


DESIGNER/DRAFTER:
JMB
CHECKED BY:

SCALE AS NOTED



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\\UTL-03.UTILITY DETAILS.dgn



SIGNATURE/
BLOCK:

PROJECT TITLE:
REPLACEMENT OF BRIDGE NO. 04576 PLEASANTVIEW DRIVE OVER HOCKANUM RIVER

TOWN:
VERNON
DRAWING TITLE:
UTILITY DETAILS




PROJECT NO.
146-200
DRAWING NO.
UTL-03
SHEET NO.
05.03

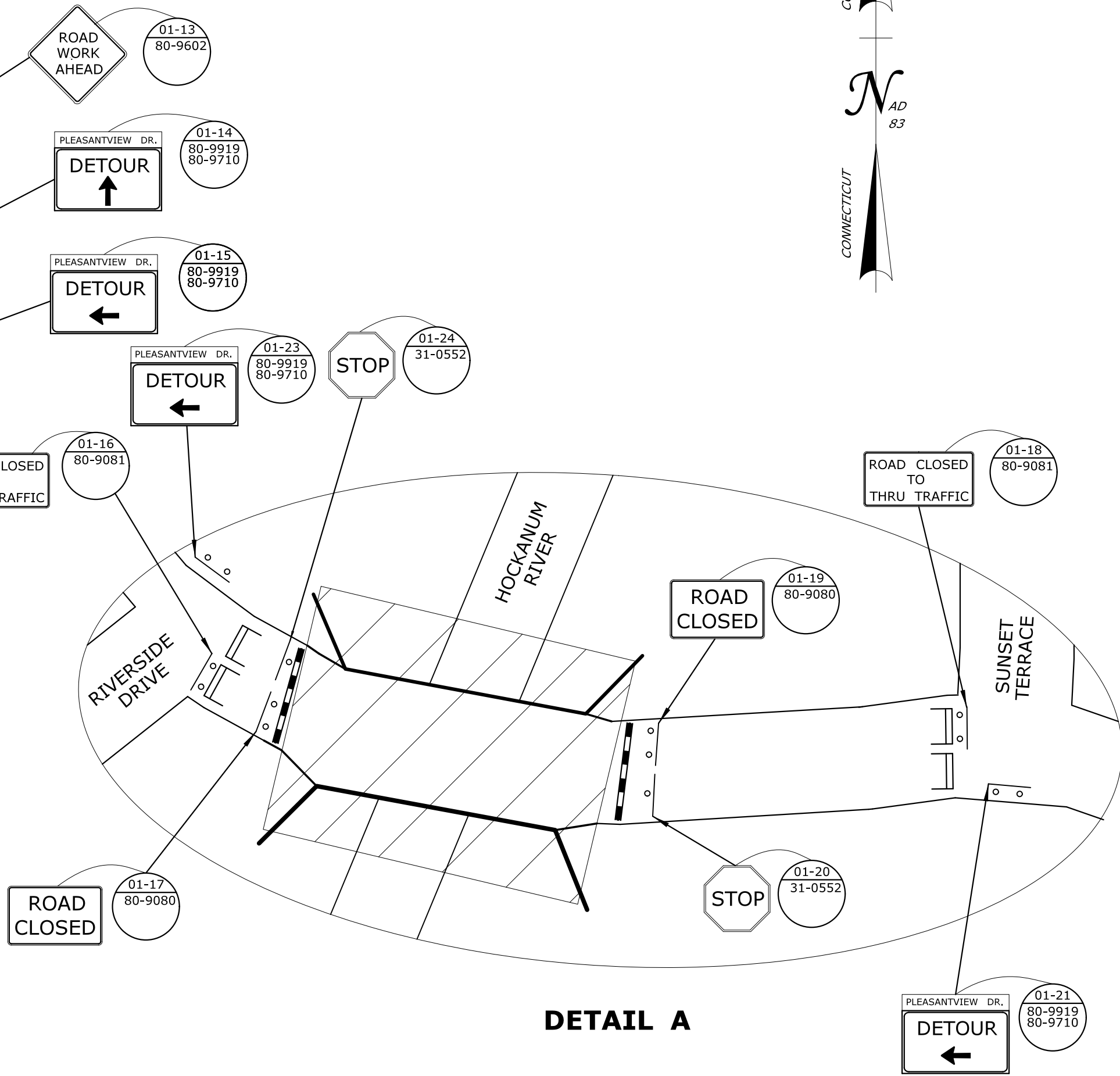
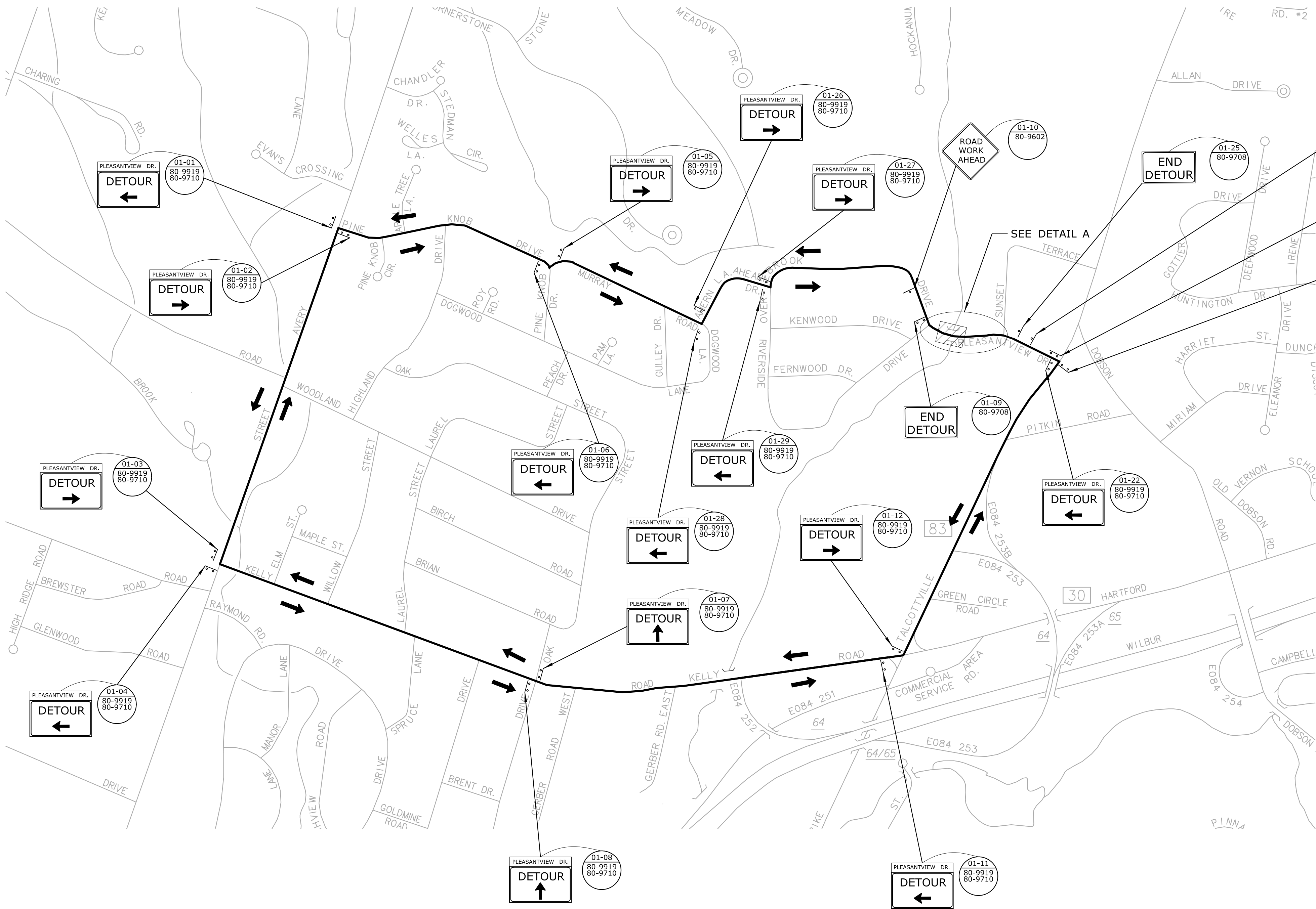
06 - TRAFFIC INDEX OF DRAWINGS

[illegible]

VN ENGINEERS
116 WASHINGTON AVENUE
NORTH HAVEN, CT 06473

SEMI FINAL DESIGN REVIEW

				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: SAI CHECKED BY: MWD		<div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div>		<div>VN ENGINEERS INC. Traffic • Infrastructure • Planning 116 WASHINGTON AVENUE NORTH HAVEN, CT 06473 203.234.7862</div>		SIGNATURE/ BLOCK: 		PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04576, PLEASANTVIEW DRIVE OVER HOCKANUM RIVER		TOWN: VERNON		PROJECT NO. 146-200		
																DRAWING NO. IDX-01				
																DRAWING TITLE: TRAFFIC INDEX OF DRAWINGS		SHEET NO. 06.01		
REV.	DATE	REVISION DESCRIPTION			SHEET NO.	Plotted Date: 5/17/2017	Filename: ...\\TR_MSH-146-200-DTR-01-subset_titlesheet.dgn													



NOTES:

- SEE SPECIAL PROVISION SECTION 1.08 - PROSECUTION AND PROGRESS CONSTRUCTION STAGING REQUIREMENTS.
- PRIOR TO INITIATING THE DETOUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, CTDOT DISTRICT 1, THE TOWN OF VERNON AND THE TOWN OF SOUTH WINDSOR EMERGENCY SERVICES AND DEPARTMENTS OF PUBLIC WORKS.
- EXACT LOCATIONS OF SIGNS TO BE VERIFIED BY THE ENGINEER IN THE FIELD AND SHALL BE ADJUSTED TO MEET FIELD CONDITIONS.
- DETOUR SIGNS TO BE PAID UNDER ITEM #1220027 - CONSTRUCTION SIGNS.
- CONSTRUCTION/DETOUR SIGNS ARE TO BE INSTALLED SO THAT THEY DO NOT BLOCK OR ARE NOT BLOCKED BY EXISTING SIGNS.
- ALL CONFLICTING SIGNS SHALL BE COVERED OR REMOVED WHEN THE DETOUR IS IN EFFECT. REMOVAL/COVERING OF EXISTING SIGNS IS PAYABLE UNDER ITEM #0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.
- TWO WEEKS PRIOR TO INITIATING THE DETOUR, INSTALL ITEM #1131002 - REMOTE CONTROL CHANGEABLE MESSAGE SIGN ON PLEASANTVIEW DRIVE TO ALERT DRIVERS OF THE CLOSURE.
- DETOUR SIGNS ARE ONLY TO BE POSTED WHILE THE DETOUR IS IN EFFECT. DETOUR SIGNS ARE TO BE COVERED OR REMOVED WHILE THE DETOUR IS NOT OPERATIONAL.
- BARRICADE WARNING LIGHTS - HIGH INTENSITY SHALL BE MOUNTED ON ALL DIAMOND SHAPED POST-MOUNTED CONSTRUCTION SIGNS AND ARE PAYABLE UNDER ITEM #0976002.
- ANY EXISTING SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE STATE.
- ALL CONSTRUCTION/DETOUR SIGNS TO BE INSTALLED ON BREAKAWAY POSTS PER TRAFFIC STANDARD SHEETS TR-1208-1, TR-1208-2 AND TR-1220-2, UNLESS OTHERWISE DIRECTED.


LEGEND:

- DOUBLE POST MOUNTED SIGN
- SINGLE POST MOUNTED SIGN
- TRAFFIC FLOW
- WORK AREA
- TEMPORARY PRECAST CONCRETE BARRIER CURB

SEMI FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 04/11/2017

DESIGNER/DRAFTER: SAI
CHECKED BY: M.BAUER
SCALE IN FEET 0 500 1000 SCALE 1"=500'

 **STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION

Filename: TR_DTR_146-200_001.dgn

SIGNATURE/
BLOCK:

 **VN ENGINEERS INC.**
Traffic • Infrastructure • Planning
116 WASHINGTON AVENUE | NORTH HAVEN, CT 06473 | 203.234.7862

PROJECT TITLE:

**REPLACEMENT OF BRIDGE
NO. 04576, PLEASANTVIEW DRIVE
OVER HOCKANUM RIVER**

TOWN:

VERNON

DRAWING TITLE:

**DETOUR
PLAN**

PROJECT NO.
146-200

DRAWING NO.
DTR-01


SHEET NO.
06.02

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #				**REVISED OR ADDED			
✓*	SHEET NO.	TITLE	APPROVAL DATE**	✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12		HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12		HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
	HW-506_03	ENDWALLS FOR PIPE ARCH	9-18-09		HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-6-12
	HW-507_01	TYPE "C", "C-L" & DROP INLET CATCH BASIN	7-24-13		HW-821_07	MISCELLANEOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
	HW-507_02	TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	7-24-13		HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
	HW-507_03	TYPE "C", "C-L" & DOUBLE GRATE TYPE - II	7-24-13		HW-905_01	FENCES AND BARWAYS	7-13-12
	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB	11-10-11		HW-910_01	W- BEAM METAL BEAM RAIL HARDWARE	6-09-11
	HW-507_05	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - I	11-10-11		HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
	HW-507_06	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - II	11-10-11		HW-910_03	METAL BEAM RAIL (TYPE MD-B 350)	6-09-11
	HW-507_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS	11-10-11		HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
	HW-507_08	CATCH BASIN FRAMES AND GRATES	9-18-09		HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
	HW-507_09	HEAVY DUTY LOCK DOWN TOPS	7-12-12		HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
	HW-507_10	MANHOLE - FRAME & COVER	7-24-13		HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	6-09-11
	HW-601_01	FIGURES FOR DATES ON BRIDGE PARAPETS	6-09-11		HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
	HW-651_01	C.C.M. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL	7-24-13		HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
	HW-651_02	SLOTTED DRAIN PIPE 12"- 15"-18"-24"-30" (305-381-457-610-762)	7-12-12		HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
	HW-652_01	PIPE ENDS	7-24-13		HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12		HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12
	HW-803_01	PAVED DITCH AND PAVED APRON	7-12-12		HW-910_12a	MERRITT PARKWAY GUIDERAIL ATTACHMENT - SYSTEM 2 & 3	7-24-13
	HW-811_01	CURBING	7-12-12		HW-910_12b	MERRITT PARKWAY GUIDERAIL	7-24-13
	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13		HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13
	HW-821_01a	TRANSITION 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12		HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11
	HW-821_01b	TRANSITION 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10		HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13
	HW-821_01c	TRANSITION 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12		HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13
	HW-821_02a	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	7-24-13		HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11
	HW-821_02b	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	7-24-13		HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11
	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12		HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11
	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10		HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11
	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10		HW-910_17	R-B TERMINAL SECTION	7-24-13
	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10		HW-910_18	METAL BEAM RAIL (TYPE MD-I)	10-18-10
	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13		HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	7-24-13
	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11		HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	7-24-13
	HW-821_04b	MERRITT PARKWAY - 2' (610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13		HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	7-24-13

***ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #**

****REVISED OR ADDED**



[illegible][illegible]

-	-	-	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.	NOT TO SCALE	<div><div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div><div>Filename: CTDOT-HIGHWAY-STD.dgn Model: 2 - HW-INX_2</div></div>	<div>CTDOT STANDARD SHEET</div> <div>OFFICE OF ENGINEERING</div>	STANDARD SHEET TITLE: HIGHWAY STANDARD SHEET INDEX	STANDARD SHEET NO.: HW_INX 2 of 2
-	-	-						
-	-	-						
-	-	-						
-	-	-						
1	7/24/13	REVISED 8 SHEETS	-					
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/29/2014					

ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

[illegible][illegible]

STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS

			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.	NOT TO SCALE	<div>STATE OF CONNECTICUTDEPARTMENT OF TRANSPORTATION</div> <div>Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-01-STD_INDEX</div>	SUBMITTED BY:	NAME/DATE/TIME:	CTDOT STANDARD SHEET	STANDARD SHEET TITLE:	STANDARD SHEET NO.:	
3	4-2014	REMOVED TR-1111_02.									
2	1-2014	REMOVED TR-1103_01.									
1	4-2012	RENUMBERED TR-1107_02 TO TR-1114_01. REMOVED TR-1116_01.									
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 4/11/2014							OFFICE OF ENGINEERING	TRAFFIC STANDARD SHEET INDEX