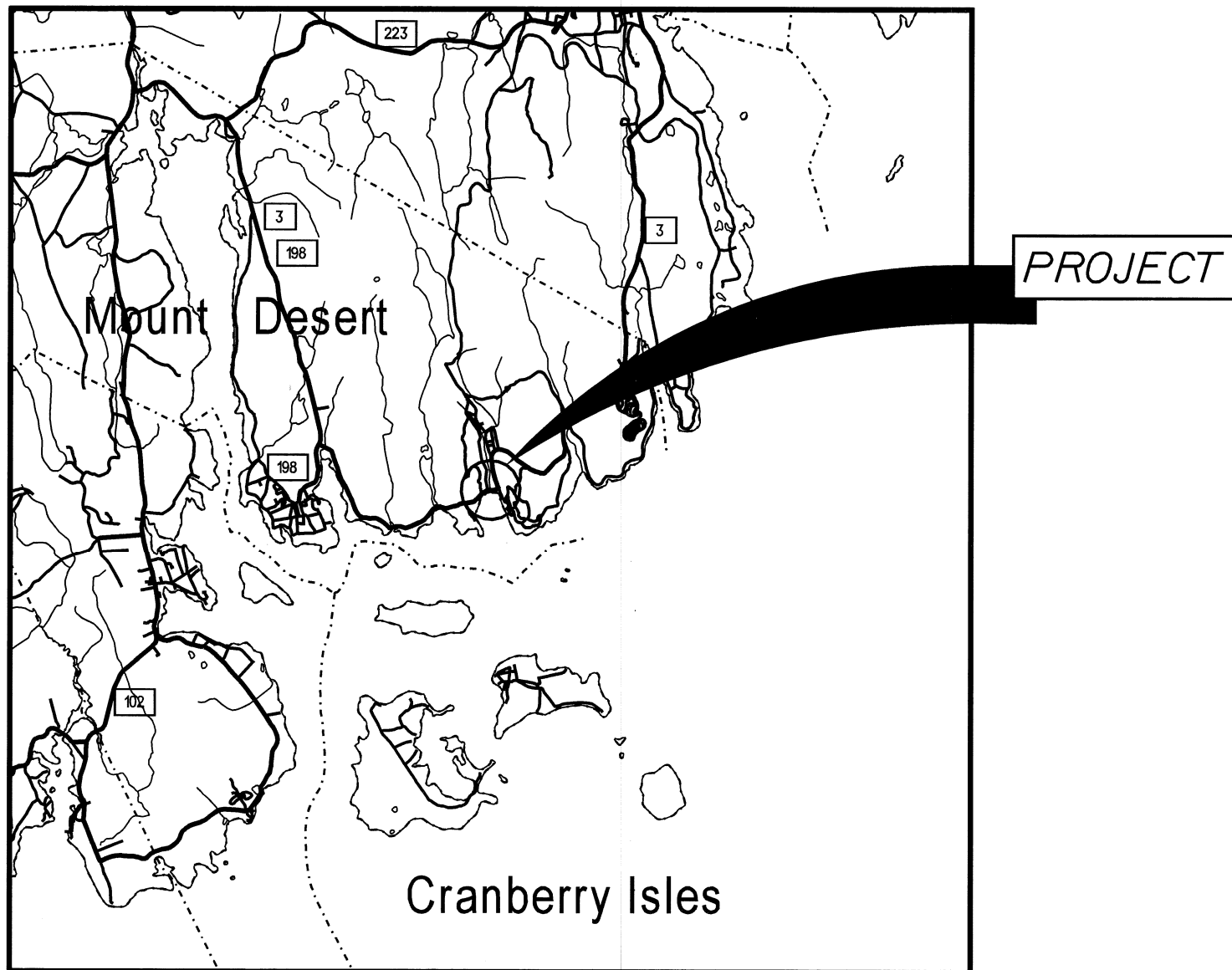


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



MOUNT DESERT
HANCOCK COUNTY
STANLEY BROOK BRIDGE
OVER
STANLEY BROOK
STATE ROUTE 3
PROJECT No. 16718.00
PROJECT LENGTH 0.114 mi.
BRIDGE REPLACEMENT
BRIDGE NO. 5570



LOCATION MAP



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Fifth Edition 2010 and Interim Specifications through 2010.

DESIGN LOADING

Live Load HL - 93 Modified

TRAFFIC DATA

Current (2010) AADT	2430
Future (2030) AADT	2920
DHV - % of AADT	15
Design Hour Volume	438
Heavy Trucks (% of AADT)	12
Heavy Trucks (% of DHV)	6
Directional Distribution (% of DHV)	64
18 kip Equivalent P 2.0	184
18 kip Equivalent P 2.5	175
Design Speed (mph)	30

HYDROLOGIC DATA

Drainage Area	1.52 sq mi
Design Discharge (Q50)	419.8 cfs
Check Discharge (Q100)	502.2 cfs
Headwater Elevation (Q50)	6.97 ft
Headwater Elevation (Q100)	7.22 ft
Discharge Velocity (Q50)	11.83 fps
Discharge Velocity (Q100)	12.30 fps
Headwater Elevation (Q1.1)	4.67 ft
Discharge Velocity (Q1.1)	6.40 fps
Headwater Elevation (Q25)	6.72 ft
Mean Lower Low Water (MLLW)	-5.68 ft
Mean Low Water (MLW)	-5.32 ft
Mean Tide Level (MTL)	-0.30 ft
Mean High Water (MHW)	4.77 ft
Mean Higher High Water (MHHW)	5.17 ft
2010 Predicted High Tide	8.17 ft

MATERIALS

Concrete:	
Cast-In-Place	Class "A"
Precast	Class "P"
Reinforcing Steel	ASTM A955, Grade 60 (See also Special Provision 709)
Welded Wire Reinforcement	ASTM A1022 (See also Special Provision 709)

BASIC DESIGN STRESSES

Cast-In-Place Concrete	f'c = 4,350 psi min.
Precast Concrete	f'c = 5,000 psi min.

Reinforcing Steel	f y = 60,000 psi
Welded Wire Reinforcement	f y = 65,000 psi min.

LIST OF DRAWINGS

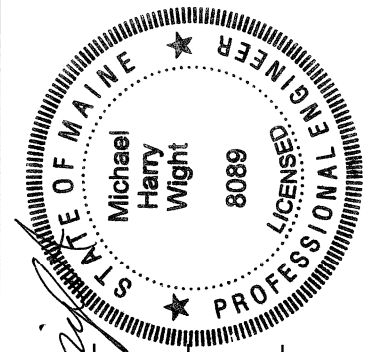
Title Sheet	1
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UTILITIES

Bangor Hydro Electric Company	Time Warner Cable
Mount Desert Water District	Mount Desert Public Works
Fairpoint Communications	

MAINTENANCE OF TRAFFIC

Close bridge to traffic for 21 calendar days maximum. Detour most traffic onto Stanley Brook Road and Jordan Pond Road. Vehicles taller than 10'-7" shall be detoured onto State Routes 3 and 233.



SIGNATURE
8089
P.E. NUMBER
4/20/2011
DATE

PROJECT INFORMATION	BRIDGE	STEVE BOGGE	RICH MYERS
PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT
			PROJECT RESIDENT
			CONTRACTOR
			PROJECT COMPLETION DATE

MOUNT DESERT
STANLEY BROOK BRIDGE
TITLE SHEET

SHEET NUMBER

1

OF 29

Date: 4/20/2011

Username: david.shaw

Division: BRIDGE

Filename: \\00\BRIDGE\WSTA\001_Title.dgn

ITEM NO.	ESTIMATED QUANTITIES		UNIT
	DESCRIPTION	QUANTITY	
202.15	REMOVING MANHOLE OR CATCH BASIN	1	EA
202.19	REMOVING EXISTING BRIDGE	1	LS
202.1913	REMOVE ABANDONED ASBESTOS-CONTAINING PIPE	75	LF
202.1914	REMOVE OR ABANDON SEWER SERVICE	1	LS
203.20	COMMON EXCAVATION	790	CY
203.24	COMMON BORROW	5	CY
203.25	GRANULAR BORROW	165	CY
203.33	SPECIAL FILL	150	CY
203.35	CRUSHED STONE FILL	190	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	715	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1510	CY
403.207	HOT MIX ASPHALT 19.0 MM HMA	326	T
403.208	HOT MIX ASPHALT 12.5 MM HMA	184	T
403.209	HOT MIX ASPHALT 9.5 MM HMA (SIDEWALKS, DRIVES, INCIDENTALS)	48	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	184	T
409.15	BITUMINOUS TACK COAT - APPLIED	106	G
502.21	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	5	CY
502.83	PRECAST BLOCK MAT	900	SF
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	530	LB
503.13	REINFORCING STEEL, PLACING	530	LB
508.13	MEMBRANE WATERPROOFING (200 SY)	1	LS
511.07	COFFERDAM: Upstream	1	LS
511.07	COFFERDAM: Downstream	1	LS
513.22	CRUSHED STONE SLOPE PROTECTION	175	SY
525.325	DRY-LAID STONE MASONRY WALL	715	SF
525.34	GRANITE MASONRY FACING	200	SF
526.30	TEMPORARY CONCRETE BARRIER - TYPE I	60	LF
528.9101	GLUE - LAMINATED TIMBER BRIDGE RAIL (640 BF)	1	LS
528.9101	GLUE - LAMINATED TIMBER BRIDGE RAIL - TRANSITION (125 BF)	1	LS
528.9104	GLUE-LAM TIMBER BRIDGE RAIL, 4 BAR (1520 BF)	1	LS
534.71	PRECAST CONCRETE BOX CULVERT (260 CY)	1	LS
603.159	12 INCH CULVERT PIPE OPTION III	88	LF
604.072	CATCH BASIN TYPE A1-C	6	EA
604.201	12" STORM WATER CHECK VALVE	2	EA
605.09	6 INCH UNDERDRAIN TYPE B	510	LF
605.11	12 INCH UNDERDRAIN TYPE C	424	LF
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
607.22	CEDAR RAIL FENCE	294	LF
608.26	CURB RAMP DETECTABLE WARNING FIELD	19	SF
609.11	VERTICAL CURB TYPE I	878	LF
609.12	VERTICAL CURB TYPE I - CIRCULAR	128	LF
609.234	TERMINAL CURB TYPE I - 4 FOOT	3	EA
609.237	TERMINAL CURB TYPE I - 7 FOOT	10	EA
609.26	CURB TRANSITION SECTION B TYPE I	1	EA
610.08	PLAIN RIPRAP	210	CY
610.16	HEAVY RIPRAP	600	CY
610.18	STONE DITCH PROTECTION	3	CY
613.329	EXTENDED USE EROSION CONTROL BLANKETS	20	SY
615.07	LOAM	11	CY
618.1301	SEEDING METHOD NUMBER 1 - PLAN QUANTITY	3	UN
619.1201	MULCH - PLAN QUANTITY	2	UN
620.58	CLASS I NON-WOVEN EROSION CONTROL GEOTEXTILE	300	SY
620.65	REINFORCEMENT GEOGRID	110	SY
621.541	DECIDUOUS SHRUBS, 18 - 24 INCHES	25	EA
627.733	4 INCH WHITE OR YELLOW PAINTED PAVE MRK LINE	1800	LF
627.75	WHITE OR YELLOW PAVEMENT AND CURB MARKING	160	SF
627.77	REMOVING EXISTING PAVEMENT MARKINGS	115	SF
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.131	SMALL BULLDOZER-GRADER (INCLUDING OPERATOR)	10	HR
631.15	ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	1	EA
641.891	RELOCATE KIOSK (14*55)	1	EA
645.116	REINST. REG. WRN. CONF. AND RTE MARKER ASSEMBLY SIGN	9	EA
645.271	REG., WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGN, TYPE I	2.5	SF
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	12	EA
652.34	CONE	12	EA
652.35	CONSTRUCTION SIGNS	600	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	90	CD
652.38	FLAGGER	160	HR
652.41	PORTABLE - CHANGEABLE MESSAGE SIGN	1	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS
801.17	8 INCH PVC SANITARY SEWER (SDR-35)	19	LF
801.18	12 INCH PVC SANITARY SEWER (SDR-35)	10	LF
803.01	TEST PITS	5	EA
803.16	4 FOOT DIAMETER PRECAST SEWER MANHOLE	2	EA
812.164	REBUILDING SEWER MANHOLE	2	EA
822.3403	8" CLASS 51 DUCTILE IRON PIPE - CONCRETE ENCASED	50	LF
822.3403	8" CLASS 51 DUCTILE IRON PIPE	63	LF
825.30	ROCK EXCAVATION FOR SANITARY SEWER	10	CY
827.331	TRENCH INSULATION	22	SY
832.07	OWNERS TESTING ALLOWANCE	1	LS

GENERAL CONSTRUCTION NOTES

1. During construction, the road will be closed to traffic for a time period specified in the Special Provisions.

2. For easements, construction limits and right of way lines, refer to Right of Way Map.

3. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.

4. All utility facilities shall be adjusted by the respective utilities unless otherwise noted. Sanitary sewer relocation to be in accordance with plans and specifications by Olver Associates, Inc. included in this contract.

5. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

6. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

7. All embankment material shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.

8. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

9. Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.

10. Extended-use Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.

11. Protective Coating for Concrete Surfaces shall be applied to the following areas:

Fascias down to the drip notch,
Top and sides of wingwalls

12. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php>.

13. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

14. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

15. The project geotechnical report titled: Geotechnical Design Report for the Replacement of Stanley Brook Bridge, Soils Report No. 2010-29, October 22, 2010, may be accessed at the MaineDOT web address.

16. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.

17. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.

ESTIMATED QUANTITIES FOR WATER DISTRICT			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
603.1576	12" RESTRAINED END CAP-WELDED	2	EA
825.60	12" HDPE WATER MAIN-SDR 11"	120	LF
827.33	TRENCH INSULATION	600	LF
830.14	WATER MAIN BRIDGE CROSSING INSTALLATION ONLY	1	LS

18. The existing bridge shall be removed by and become the property of the Contractor. The steel portions of the existing bridge may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the bridge. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing bridge is removed, the Contractor is solely responsible for the care, custody and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling or disposal of the bridge components, including lead-coated steel. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Payment for all labor, materials, equipment and other costs required to remove and dispose of the existing bridge will be considered incidental to the bridge removal pay item.

19. The removal of existing catch basins at Sta. 13+56 Rt. and Sta. 14+59 Rt. will be paid for under 203.20, Common Excavation. The removal of the existing catch basin at Sta. 16+36 Lt. will be paid for under Item No. 202.15, Removing Manhole or Catch Basin.

20. Removing and resetting coping stones will be paid for under Pay Item No. 203.20, Common Excavation.

21. As directed by the Resident, remove existing pavement markings designated parking spots in the middle of the parking lot where new pavement markings are to be painted in accordance with the plans.

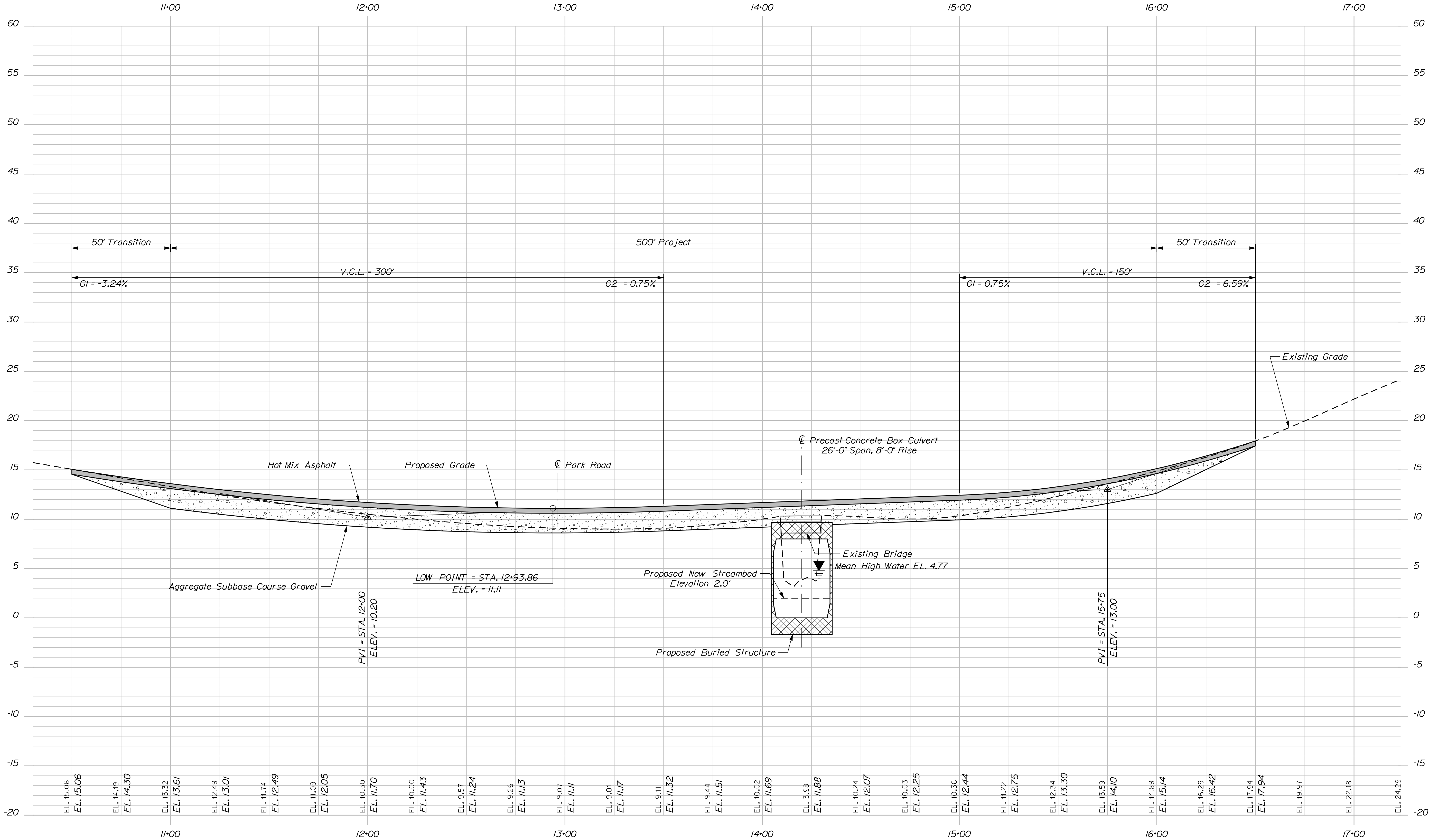
22. Site excavated dredge material, or if needed, granular borrow, material for underwater backfill shall be mixed in with the riprap used for the riprap aprons so that the apron is one solid mass with no voids. Payment shall be included under Pay Item No. 203.33, Special Fill.

23. All signs to be impacted by construction shall be removed and reinstalled per Special Provision Section 645 - Highway Signing.

24. The Contractor shall coordinate with Bangor Hydro Electric Company to provide a power line from the utility pole at approximately station 13+44 Lt. to the adjacent brown informational sign post at approximate station 13+46 Lt. for equipment to be installed by Acadia National Park. This work shall be completed by August 8, 2011 and will be paid for as part of Pay Item No. 641.891, Relocate Kiosk.

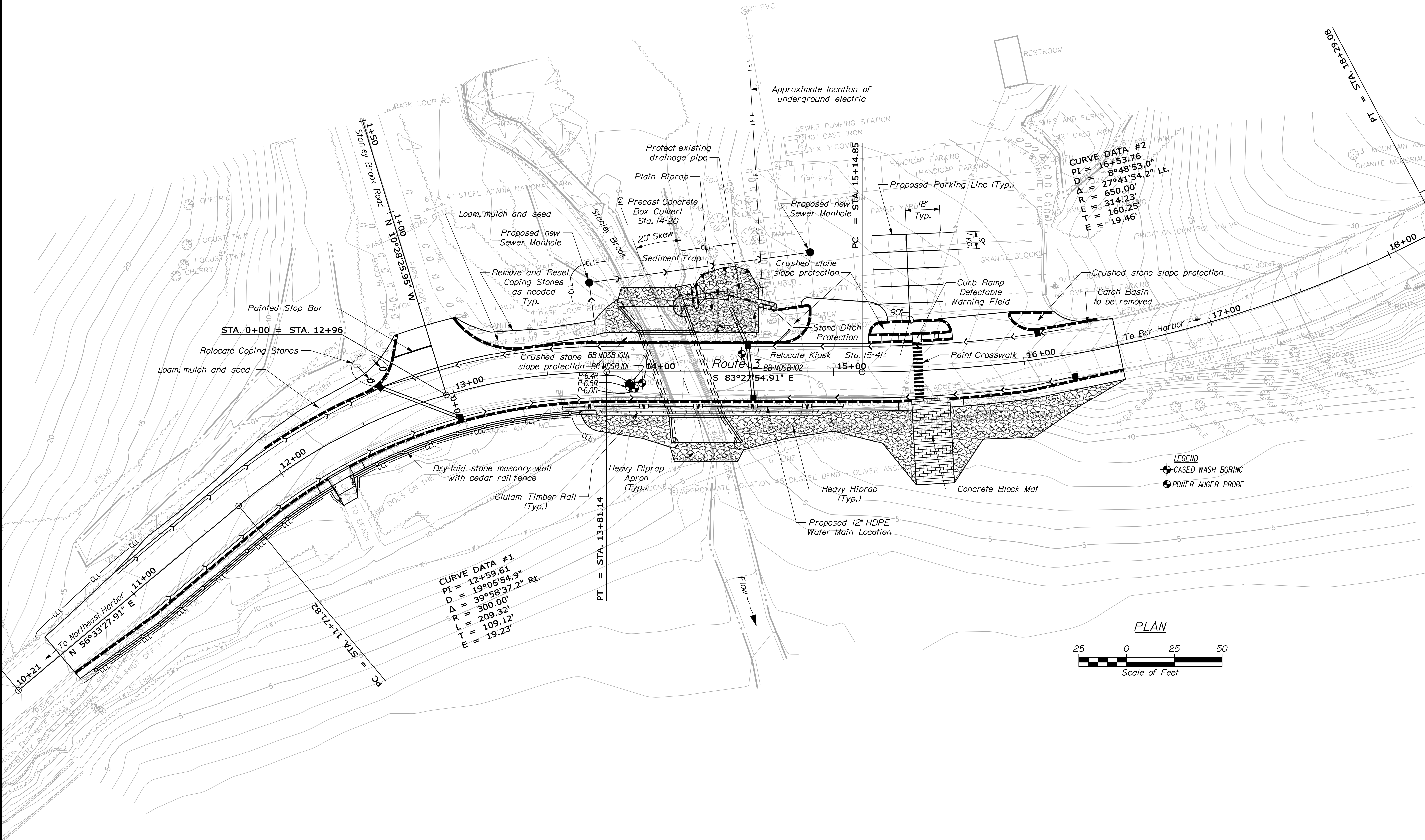
25. Refer to Sanitary Sewer Relocation Plans and Specifications for description of Pay Item No. 832.07, Owner's Testing Allowance.

STANLEY BROOK BRIDGE				PROJ. MANAGER		O. ANDERSON		BY		DATE		STATE OF MAINE DEPARTMENT OF TRANSPORTATION					
STANLEY BROOK				DESIGN-DETAILED		R. Myers		D. Shaw		APR 2011							
MOUNT DESERT				CHECKED-REVIEWED		M. Wight		M. Poulin		SIGNATURE							
HANCOCK COUNTY				DESIGN2-DETAILED2													
				DESIGN3-DETAILED3													
ESTIMATED QUANTITIES				REVISIONS 1						P.E. NUMBER		16718.00					
				REVISIONS 2													
				REVISIONS 3													
				REVISIONS 4													
				FIELD CHANGES													
SHEET NUMBER										DATE		BRIDGE NO. 5570		PIN 16718.00		BRIDGE PLANS	
2																	
OF 29																	



PROFILE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 16718.00	SIGNATURE		DATE
	P.E. NUMBER		DATE
	BRIDGE NO. 6570		BRIDGE PLANS
PIN 16718.00			
STANLEY BROOK BRIDGE STANLEY BROOK MOUNT DESERT HANCOCK COUNTY		SHEET NUMBER 4 OF 29	
PROFILE			



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STANLEY BROOK BRIDGE STANLEY BROOK MOUNT DESERT HANCOCK COUNTY		SHEET NUMBER 5	
		BORING LOCATION PLAN			
		SIGNATURE		P.E. NUMBER	
		DATE		DATE	
		BY		DATE	
		D. ANDERSON		MAR 2010	
		CHECKED-REVIEWED		T. WHITE	
		DESIGN-DETILED			
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			
		BRIDGE NO. 6570		PIN 16718.00	
		BRIDGE PLANS			



Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

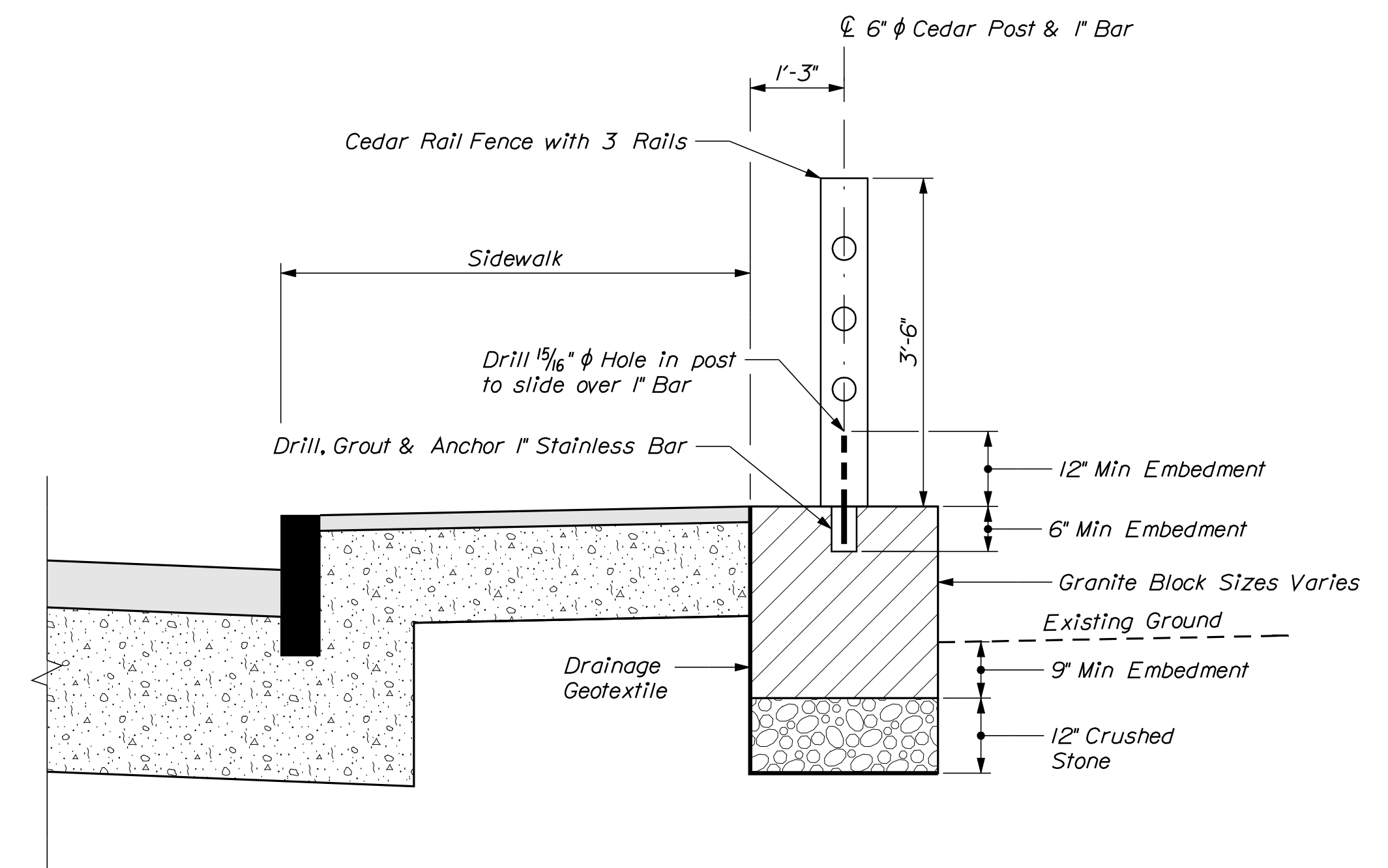
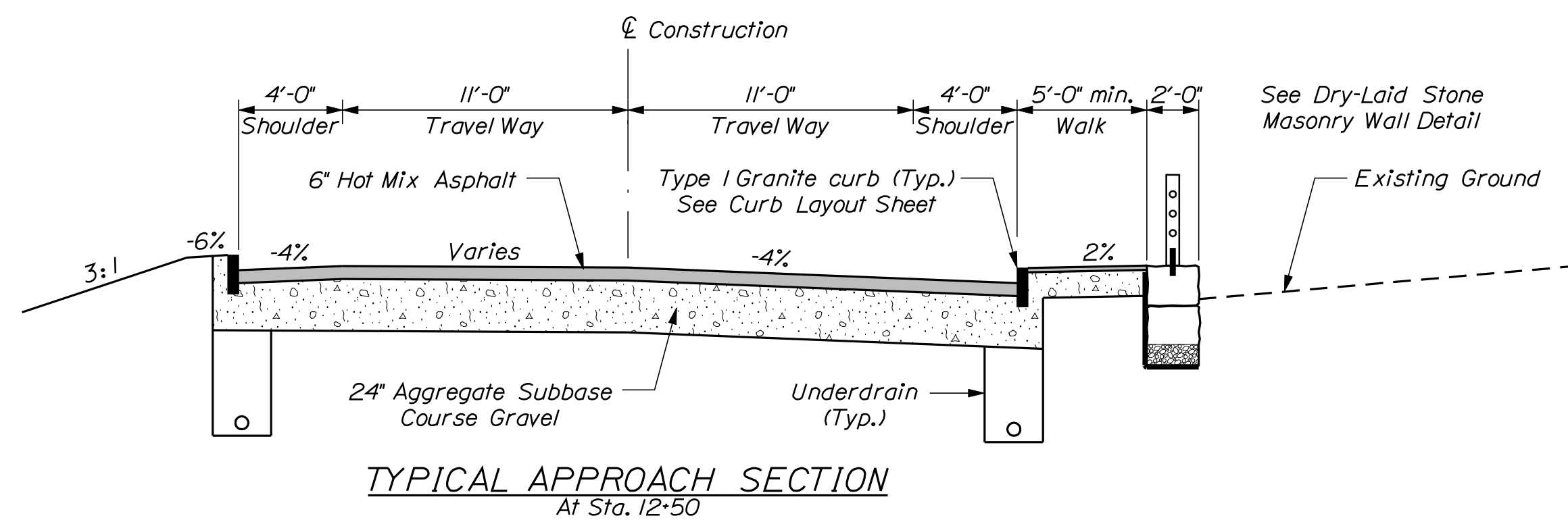
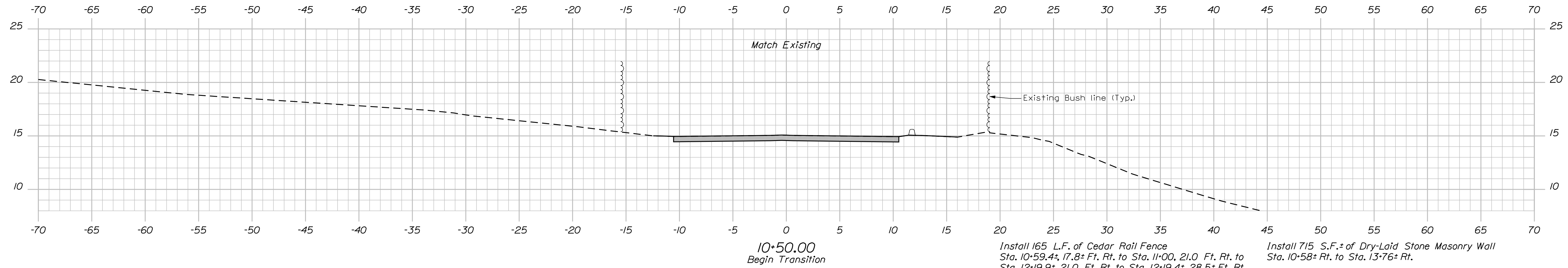
Stratification lines represent approximate boundaries between soil type transitions may be gradual.	Page 1 of 1
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.	Boring No.: BB-MDSB-101

Stratification lines represent approximate boundaries between soil type; transitions may be gradual.	Page 1 of 1
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.	Boring No.: BB-MDSB-101A

Stratification lines represent approximate boundaries between soil type transitions may be gradual.	Page 1 of 2
Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.	Boring No.: BB-MDSB-102

Stratification lines represent approximate boundaries between soil type transitions may be gradual.	Page 2 of 2
Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.	Boring No.: BB-MDSB-102

7
OF 29



DRY-LAID STONE MASONRY WALL DETAIL

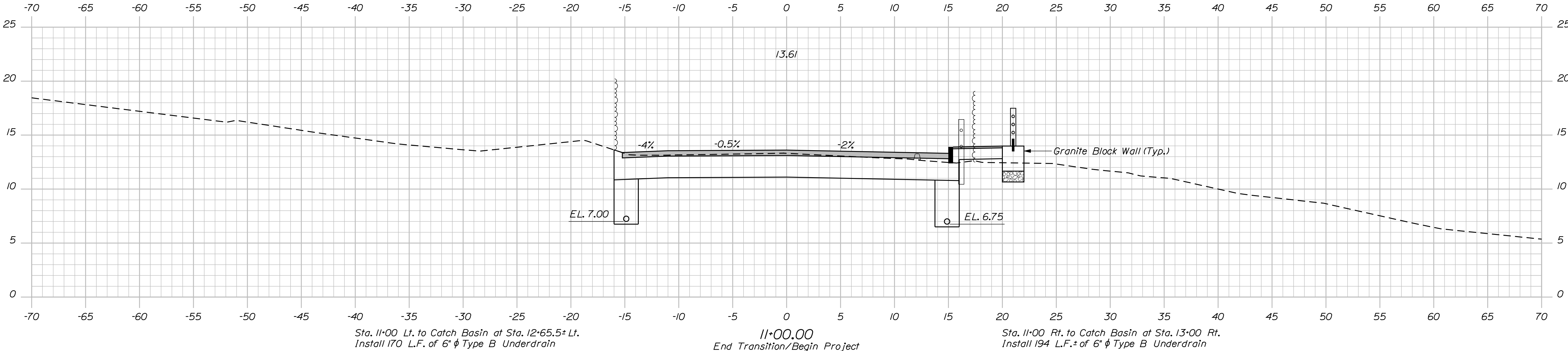
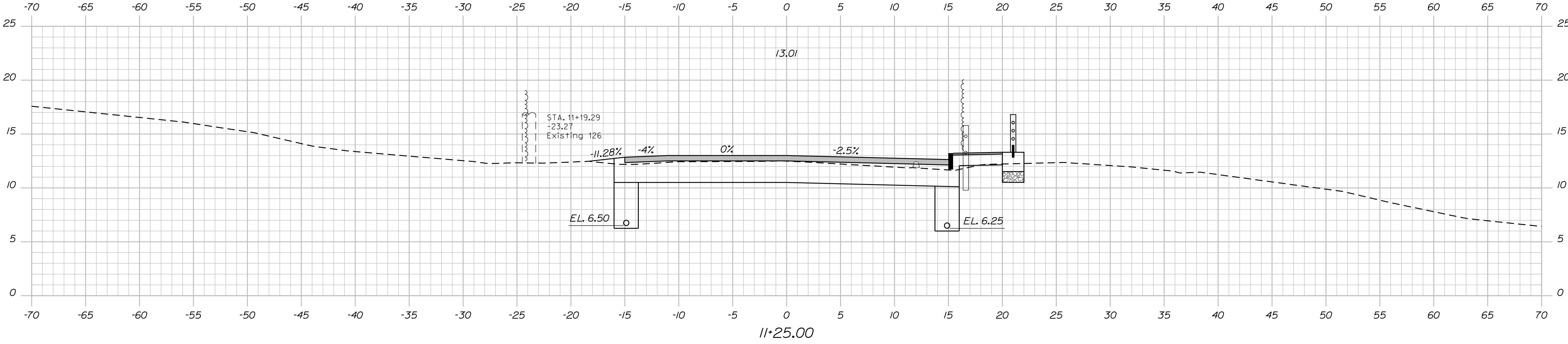
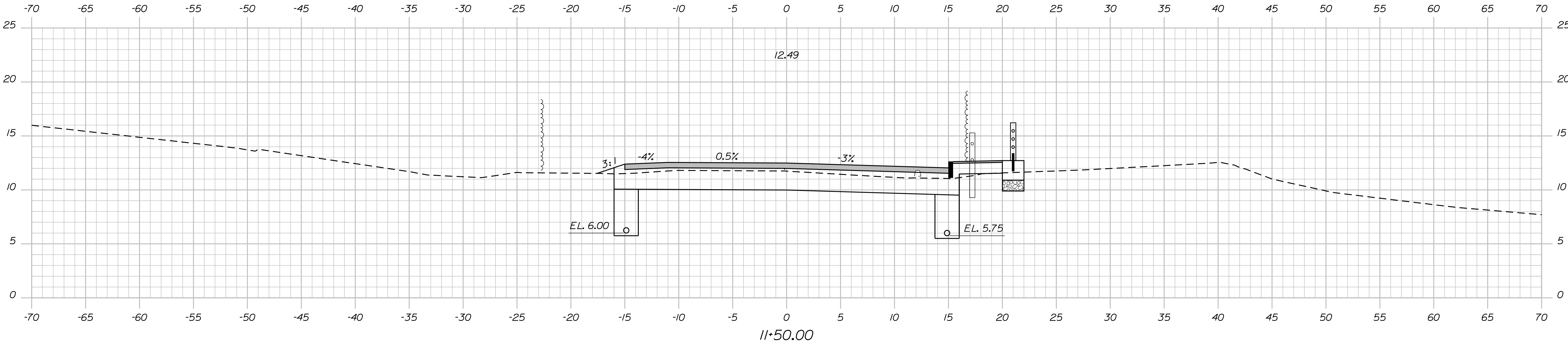
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		MOUNT DESERT		CHECKED-REVIEWED	M. Wigitt	M. Poulin	SIGNATURE	
		HANCOCK COUNTY		DESIGN-DETAILED			P. E. NUMBER	
CROSS SECTIONS		DESIGN-DETAILED						16718.00
		REVISIONS 1						
		REVISIONS 2						
		REVISIONS 3						
		REVISIONS 4						PIN 16718.00
		FIELD CHANGES						
								BRIDGE NO. 5570
								BRIDGE PLANS

Date:4/21/2011

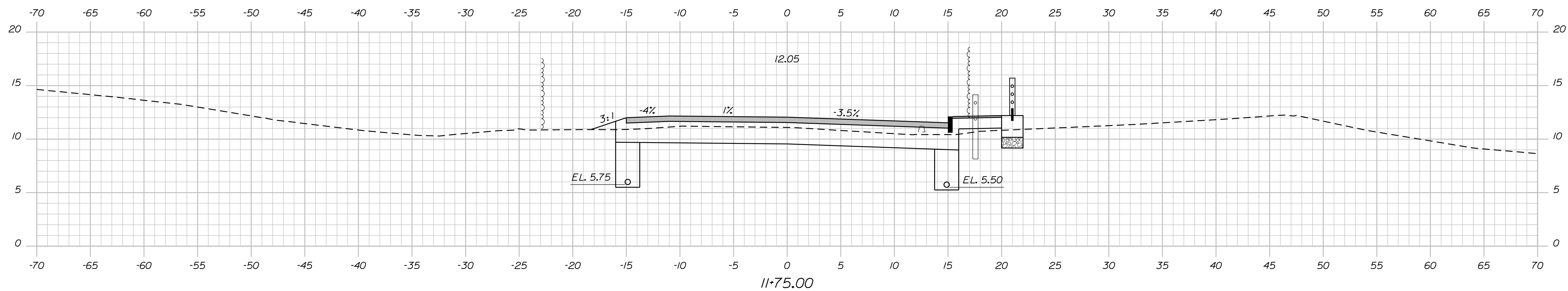
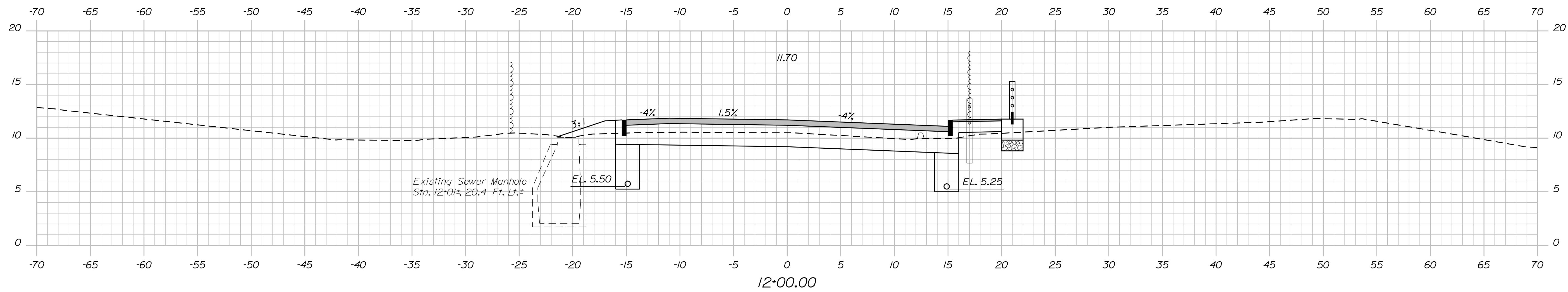
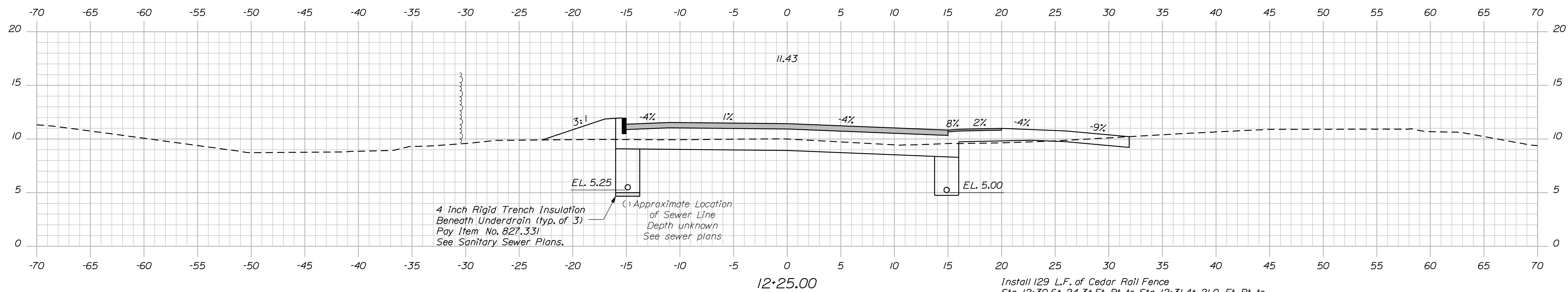
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STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		16718.00		PIN		BRIDGE NO. 6570		BRIDGE PLANS	
STANLEY BROOK BRIDGE		STANLEY BROOK		SIGNATURE		P.E. NUMBER		DATE		CROSS SECTIONS	
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				CHECKED-Reviewed		CHECKED-Reviewed		CHECKED-Reviewed		9	
				DESIGNED-Detailed		DESIGNED-Detailed		DESIGNED-Detailed		OF 29	
				REVISIONS 1		REVISIONS 2		REVISIONS 3			
				REVISIONS 4		REVISIONS 5		REVISIONS 6			
				FIELD CHANGES							
				BY		DATE					
				S. Bodge		APR 2011					
				D. Shaw							
				M. Wright							



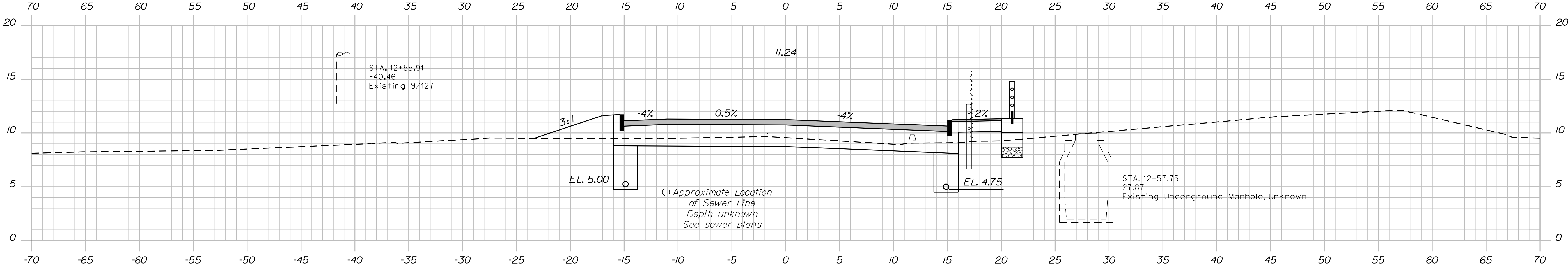
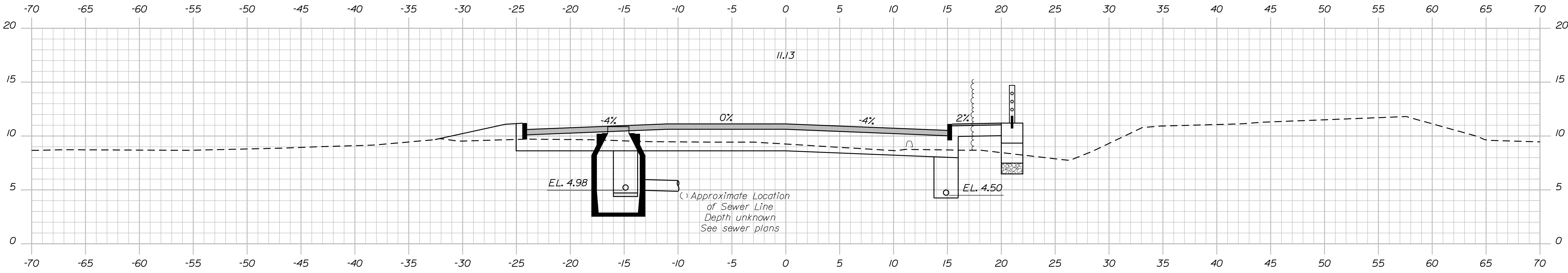
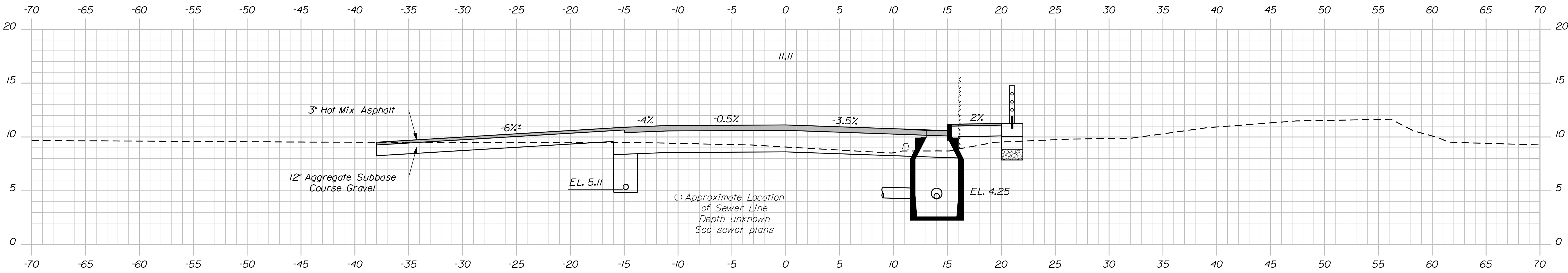
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	STANLEY BROOK		DESIGN-DETAILED	R. Myers	D. Shaw	APR 2011	
	MOUNT DESERT HANCOCK COUNTY		CHECKED-REVIEWED	M. Wright	M. Poulain	SIGNATURE	
			DESIGNS DETAIL D2			P.E. NUMBER	
			DESIGNS DETAIL D3				
CROSS SECTIONS		REVISIONS 1					BRIDGE NO. 5570 PIN 16718.00 BRIDGE PLANS
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		REVISIONS 3					
		REVISIONS 4					
		FIELD CHANGES					

Date:4/21/2011

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Division: BRIDGE

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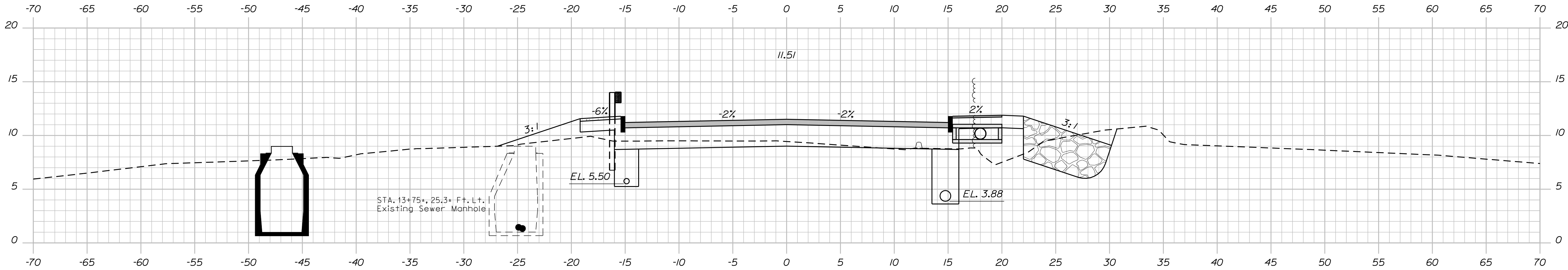
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PROJ. MANAGER				S. Bodge				BY				DATE				SIGNATURE				P.E. NUMBER				DATE			
DESIGN-DETAILED				R. Myers				D. Shaw				APR 2011															
CHECKED-REVIEWED				M. Wright				M. Poulin																			
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REVISIONS 3																											
REVISIONS 4																											
FIELD CHANGES																											

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Division: BRIDGE

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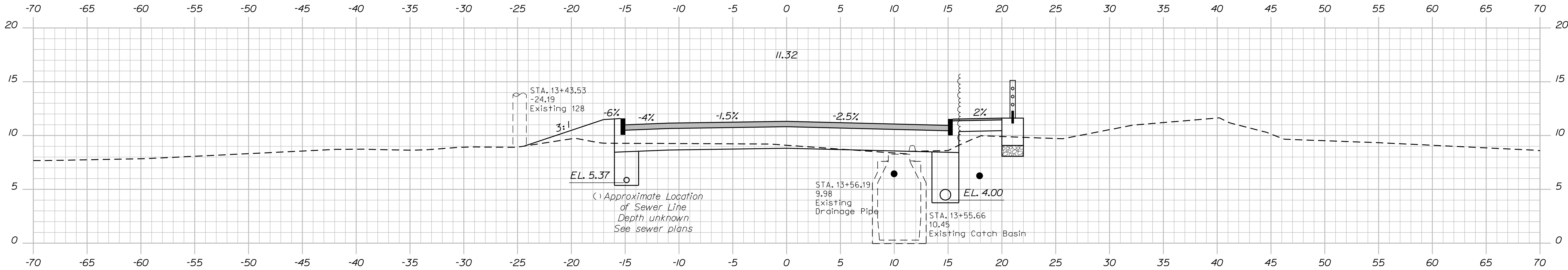


Install new Sanitary Sewer Manhole
See Sanitary Sewer Plans

Install Glulam Timber Guardrail and Bridge Rail
Sta. 13+71+ to Sta. 14+77+
See Glulam Timber Rail Layout Sheet

Install Glulam Timber Guardrail and Bridge Rail
Sta. 13+78+ to Sta. 14+92+
See Glulam Timber Rail Layout Sheet

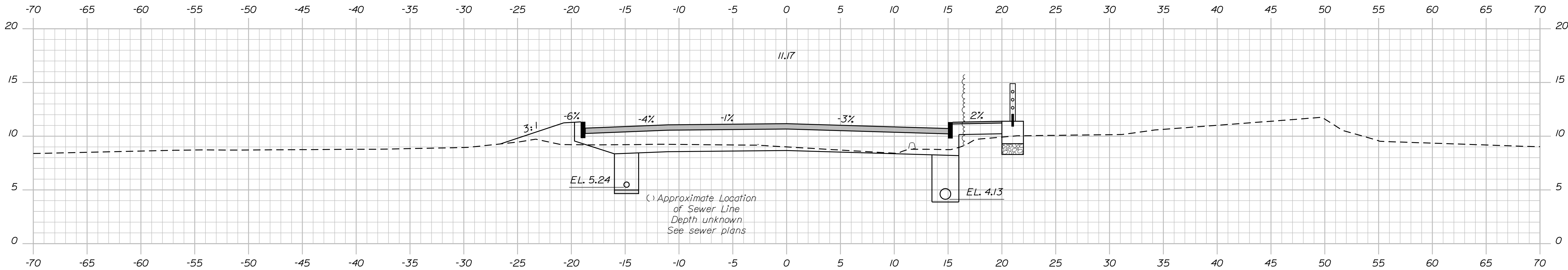
Install 120 L.F. of 12" ϕ HDPE Water Main - SDR 11
Sta. 13+70+ 18.0 Ft. Rt. to Sta. 14+90+ 18.0 Ft. Rt.



() Approximate Location
of Sewer Line
Depth unknown
See sewer plans

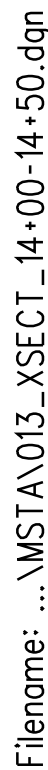
STA. 13+56.19
9.98
Existing
Drainage Pipe

STA. 13+55.66
10.45
Existing Catch Basin



() Approximate Location
of Sewer Line
Depth unknown
See sewer plans

STATE OF MAINE				DEPARTMENT OF TRANSPORTATION			
16718.00				16718.00			
BRIDGE NO. 6570				PIN			
16718.00				BRIDGE PLANS			
STANLEY BROOK BRIDGE				SIGNATURE			
STANLEY BROOK				P.E. NUMBER			
MOUNT DESERT				DATE			
HANCOCK COUNTY				FIELD CHANGES			
CROSS SECTIONS				SHEET NUMBER			
12				OF 29			

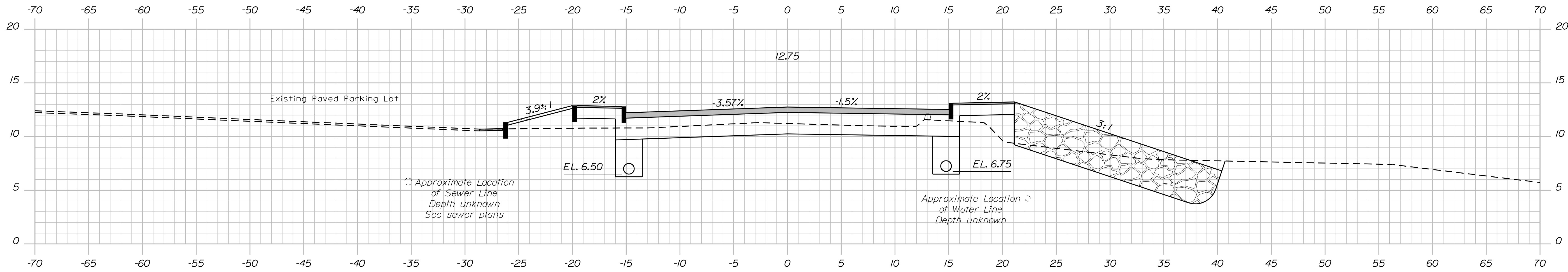


Date:4/21/2011

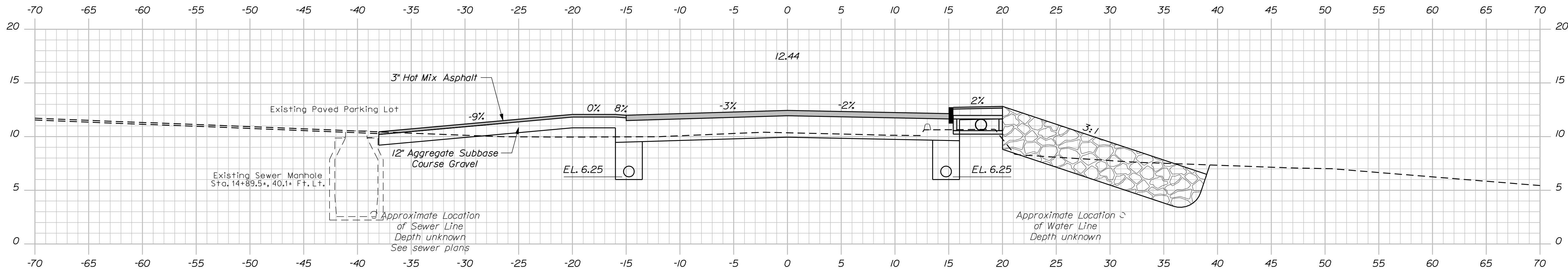
Username: david.shaw

Division: BRIDGE

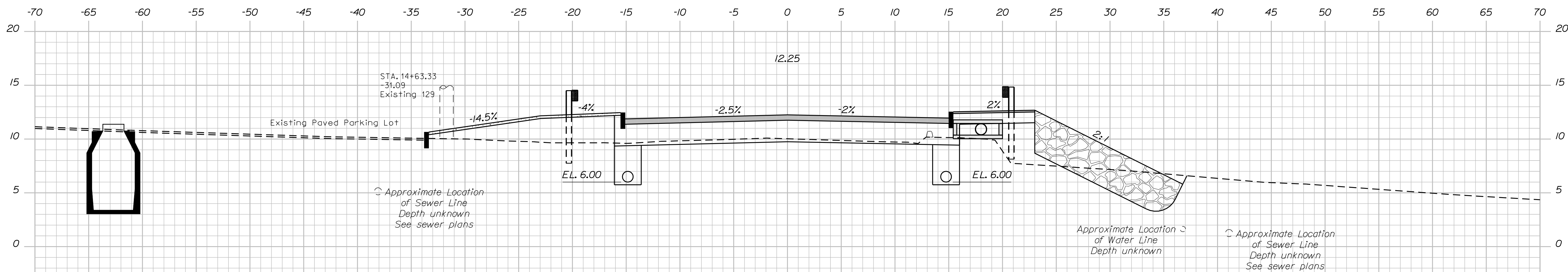
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15+25.00



15+00.00



14+75.00

Install new Sanitary Sewer Manhole
See Sanitary Sewer Plans

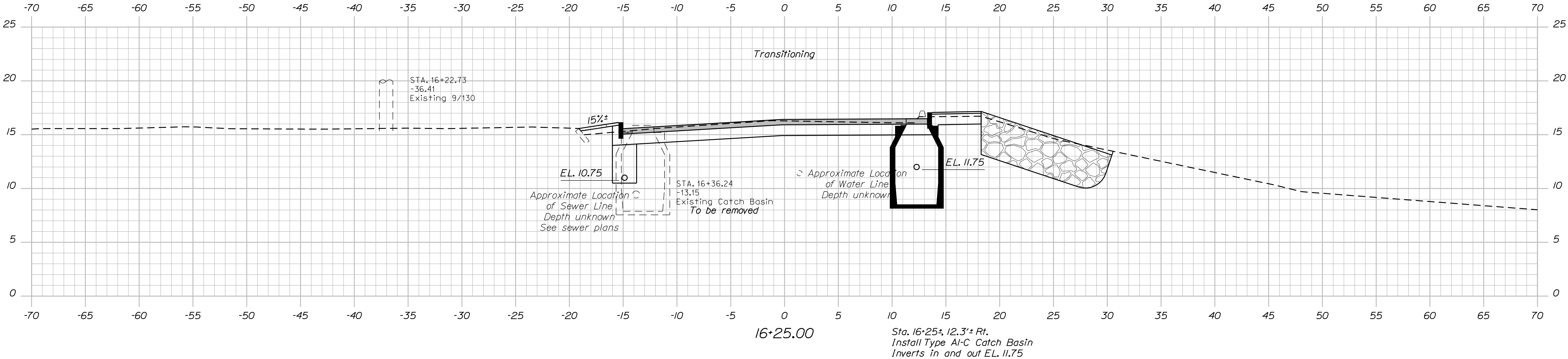
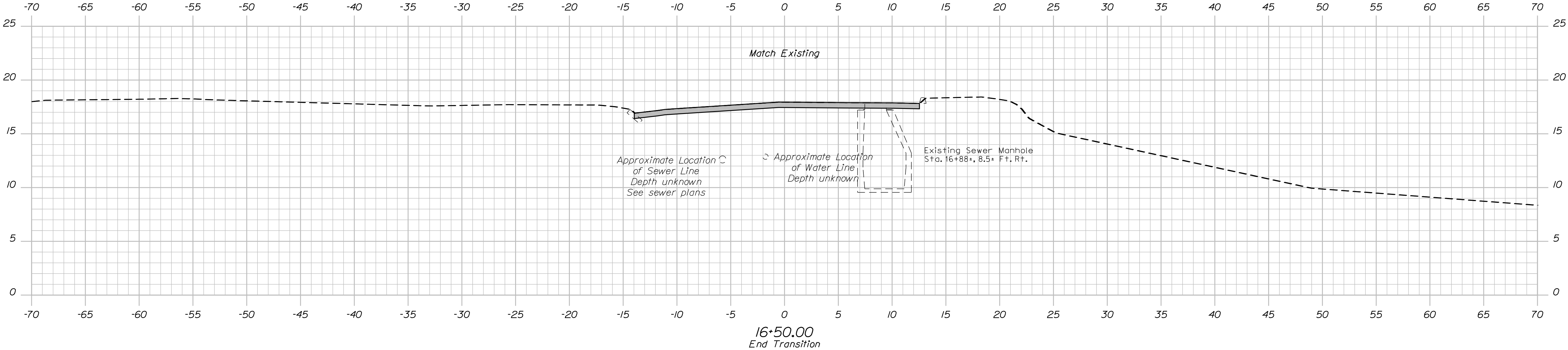
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		16718.00		PIN		16718.00		BRIDGE NO. 6570		BRIDGE PLANS	
STANLEY BROOK BRIDGE		STANLEY BROOK		HANCOCK COUNTY		MOUNT DESERT		CROSS SECTIONS		SHEET NUMBER		14	
DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
BY		DATE		SIGNATURE		P.E. NUMBER		DATE		FIELD CHANGES		OF 29	
S. Bodge		APR 2011		D. Shaw		M. Wright		M. Wright		M. Wright		M. Wright	

Date:4/21/2011

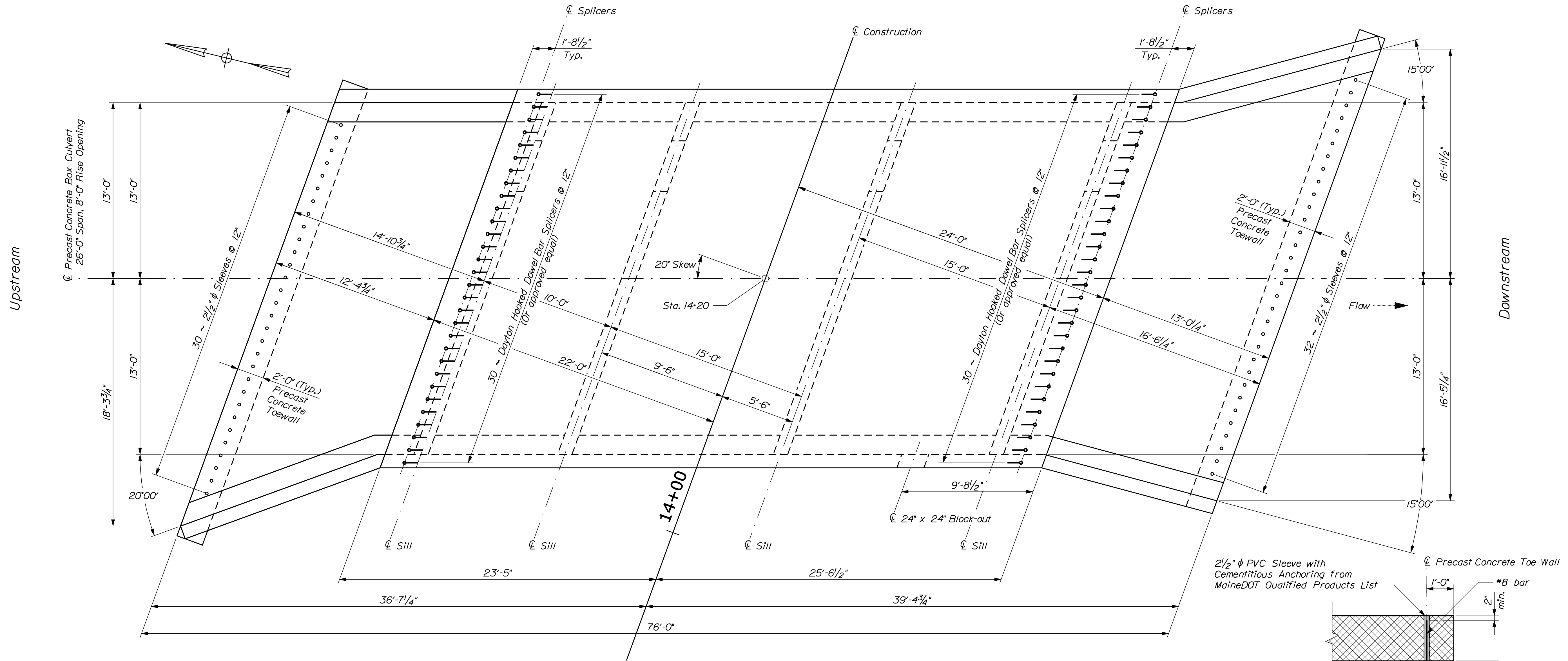
Username: david.shaw

Division: BRIDGE

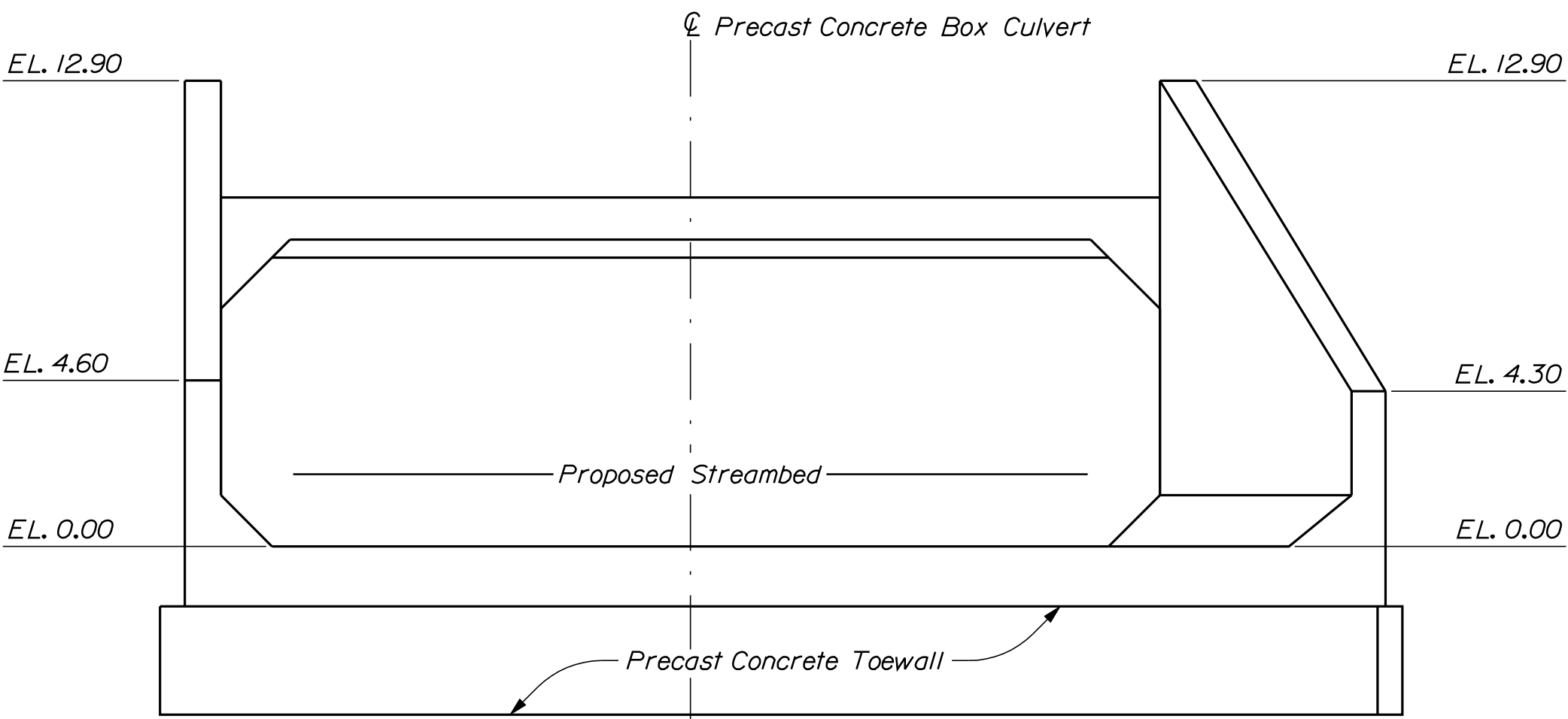
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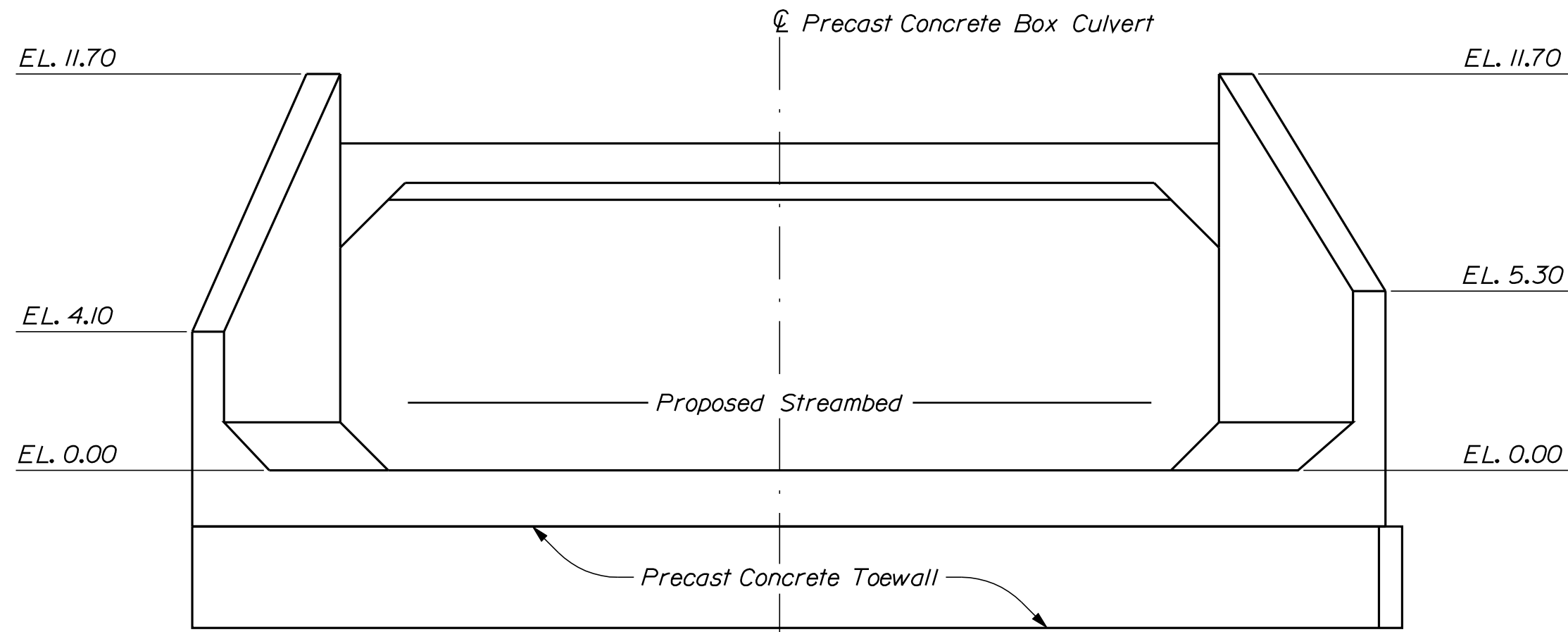
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		16718.00	
STANLEY BROOK BRIDGE		SIGNATURE		P.E. NUMBER	
STANLEY BROOK		BY		DATE	
MOUNT DESERT		S. Bodge		APR 2011	
HANCOCK COUNTY		R. Myers			
CROSS SECTIONS		M. Wight			
		DESIGN-DETAILED		DESIGN-DETAILED	
		CHECKED-REVIEWED		REVISIONS 1	
		DESIGN-DETAILED		REVISIONS 2	
		DESIGN-DETAILED		REVISIONS 3	
		DESIGN-DETAILED		REVISIONS 4	
		DESIGN-DETAILED		FIELD CHANGES	
SHEET NUMBER		BRIDGE NO. 6570		PIN	
16		16718.00		16718.00	
OF 29				BRIDGE PLANS	



PLAN



UPSTREAM ELEVATION



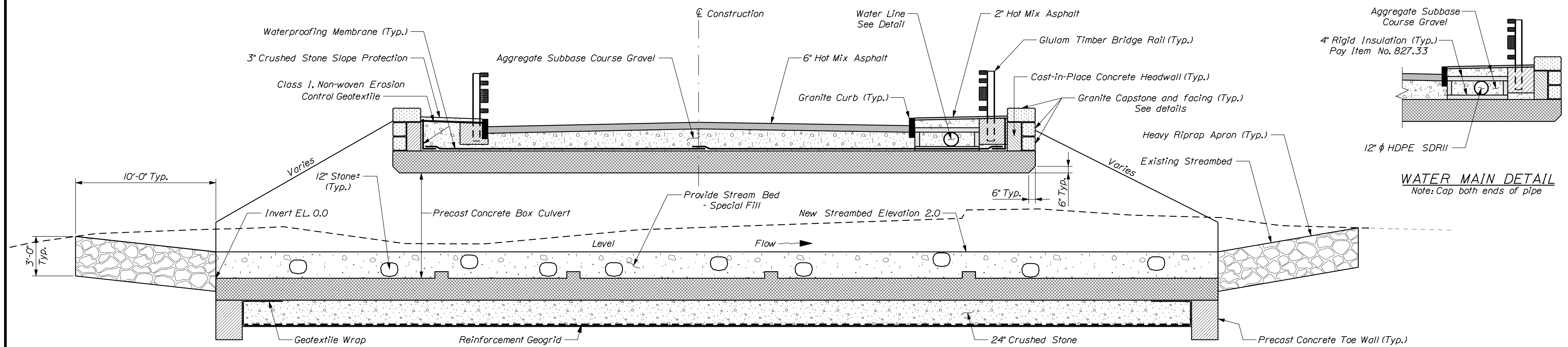
DOWNSTREAM ELEVATION

PRECAST CONCRETE TOE WALL DETAIL

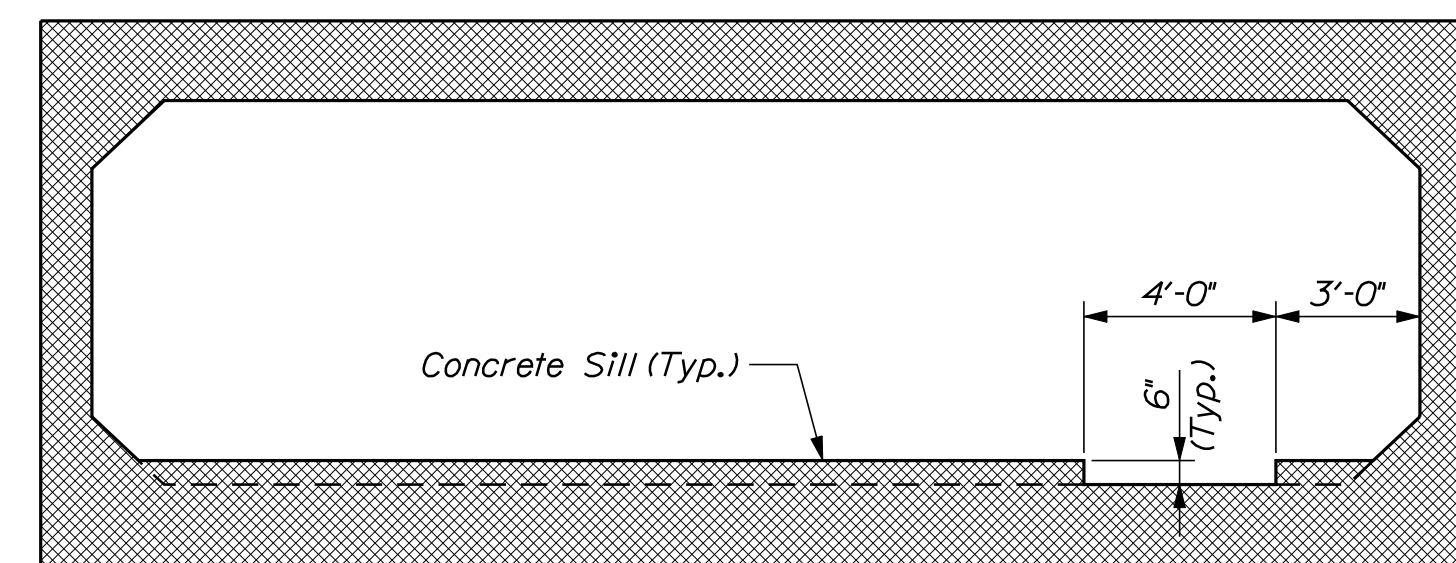
PRECAST CONCRETE BOXES NOTES:

1. Stone anchors shall be split-bend anchors, 2 inches wide by 1/4 inch thick by 12 inches long with 3 inch long bends. Material shall be ASTM A36, galvanized steel. Two anchors required per stone. Payment shall be incidental to Pay Item No. 525.34, Granite Masonry Facing.
2. Drill and anchor two #5 rebar dowels per capstone as shown, 8 inches long. Anchor with material from Maine DOT Qualified List of Cementitious Anchoring Materials. Payment shall be incidental to Pay Item No. 525.34, Granite Masonry Facing.
3. Anchorage for cast-in-place headwalls to the precast (See Headwall Detail) shall be epoxy coated #5 Dayton Hooked Dowel Bar Splicers (or approved equal) spaced @ 12 inches on center. Payment shall be incidental to Pay Item No. 534.71, Precast Concrete Box Culvert.
4. Install standard membrane waterproofing over the top and to 12 inches down the exterior sides of the precast units.
5. The precast units shall be designed to carry construction loadings with a minimum fill cover of 18 inches over the top of the units.

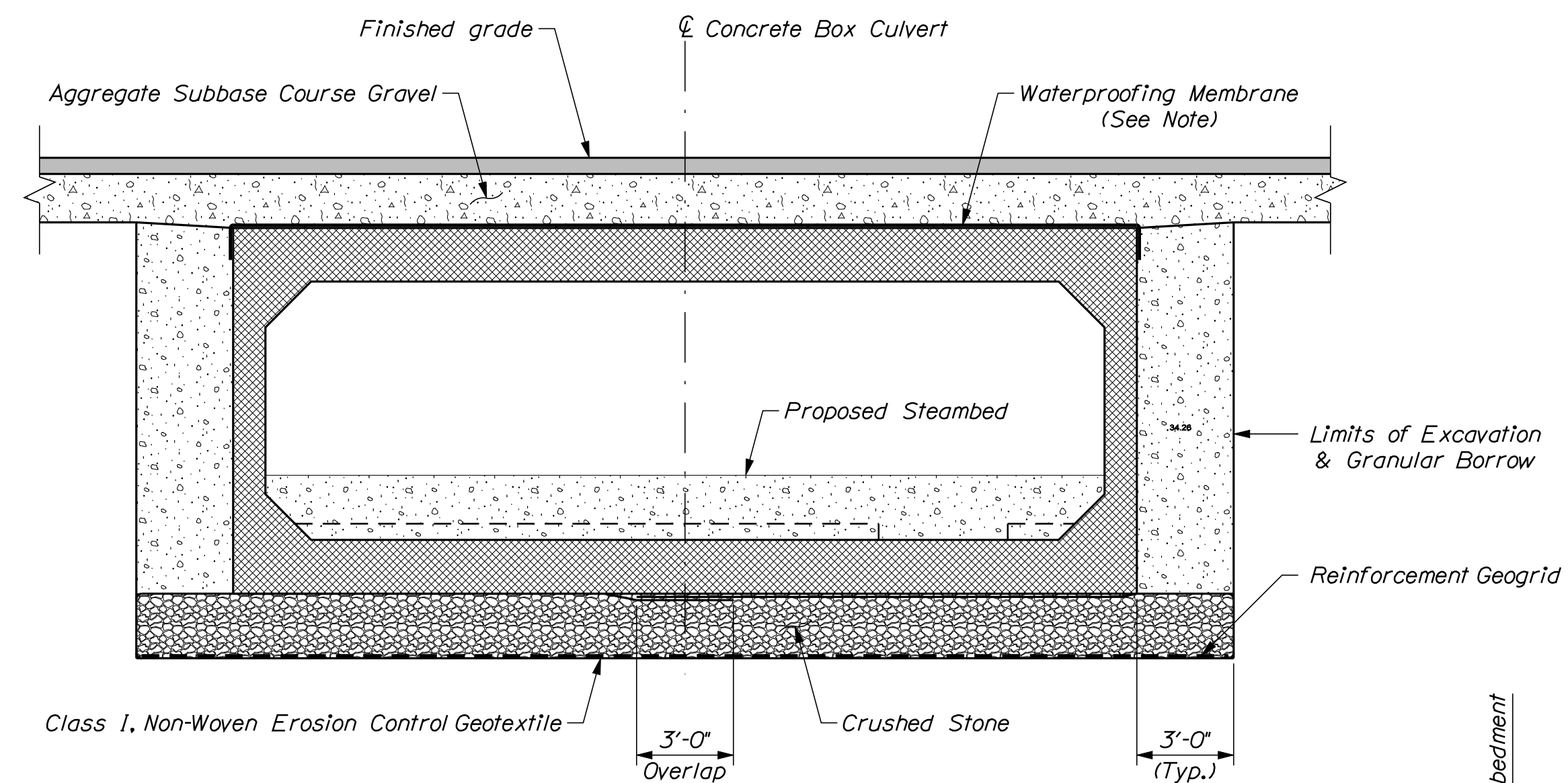
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE	
	P.E. NUMBER	
	DATE	
BRIDGE NO. 5570		PIN 16718.00
BRIDGE PLANS		16718.00
SHEET NUMBER		
17		
OF 29		



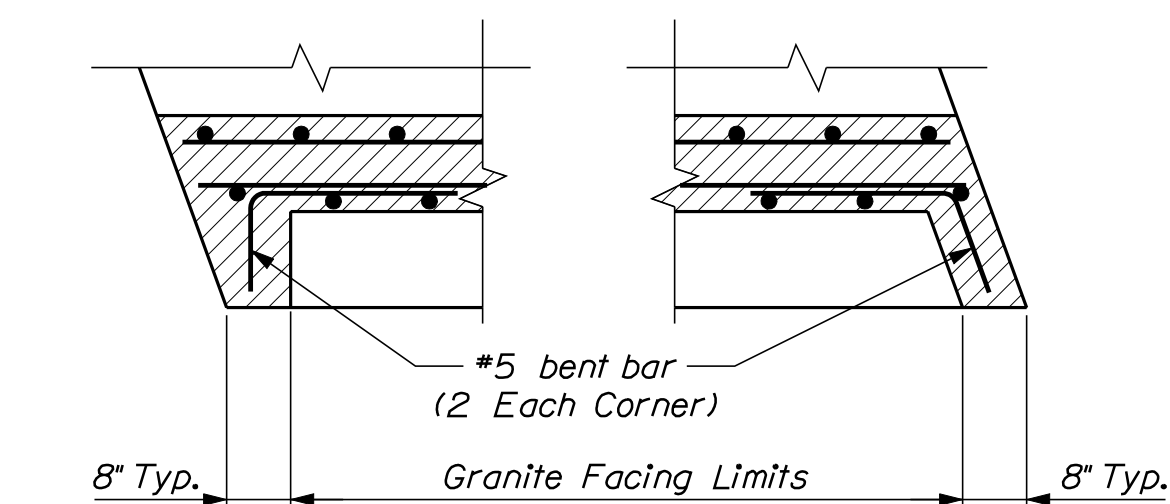
TRANSVERSE SECTION



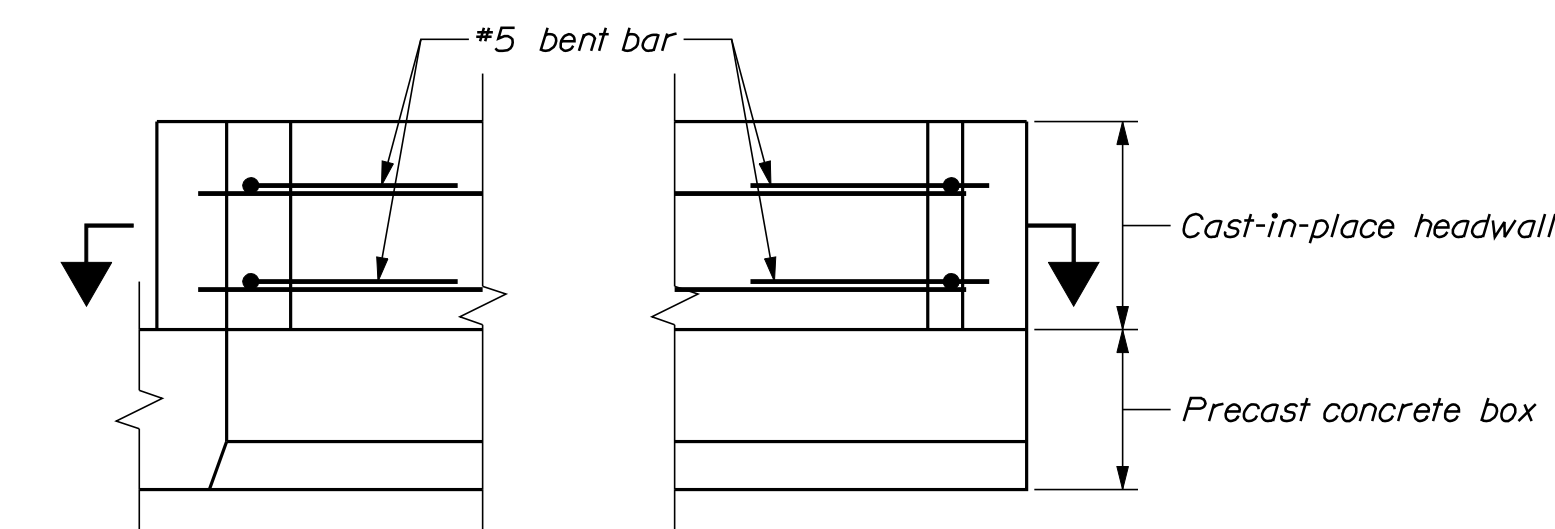
SECTION THROUGH CONCRETE SILL



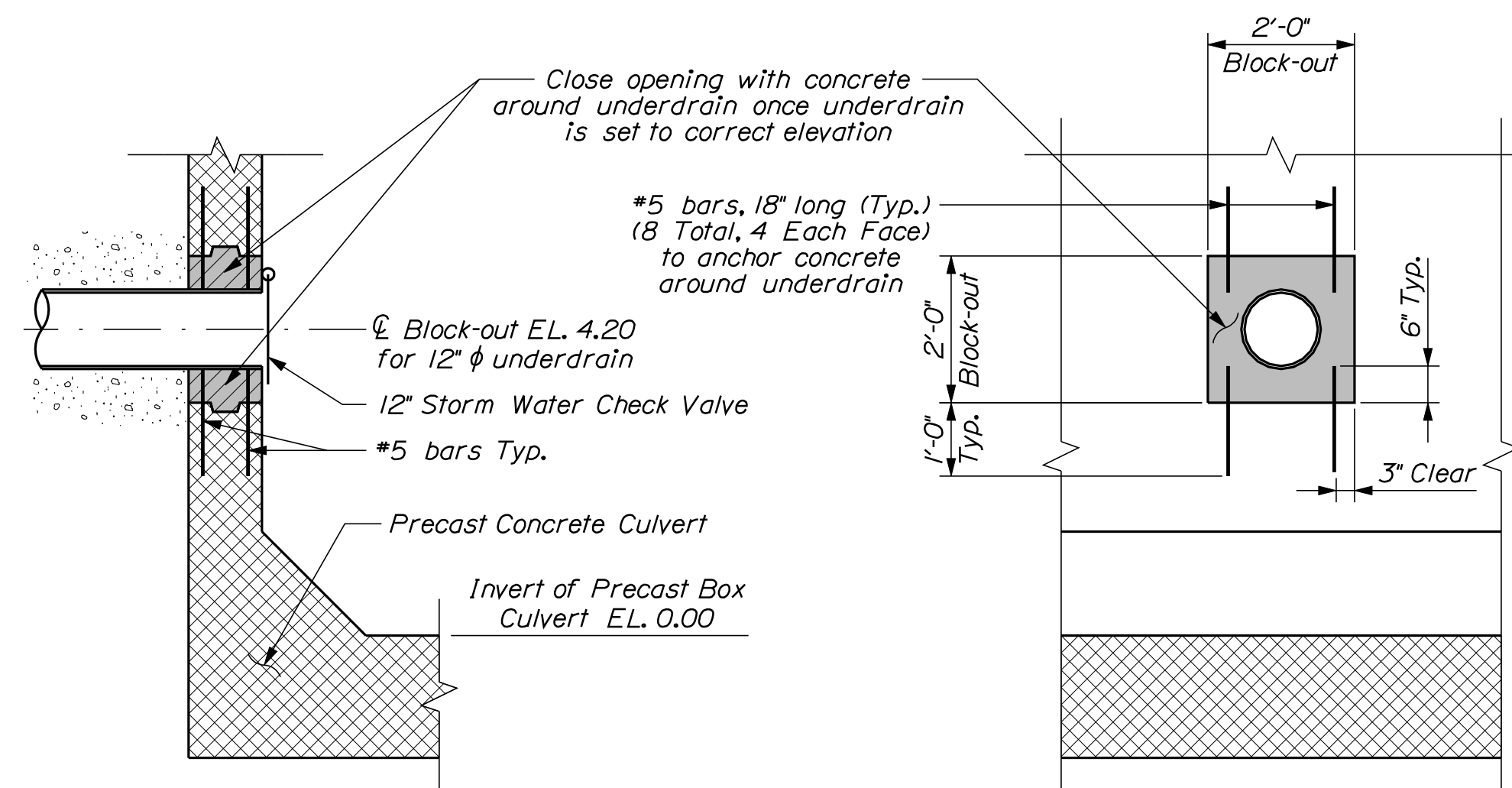
TYPICAL SECTION



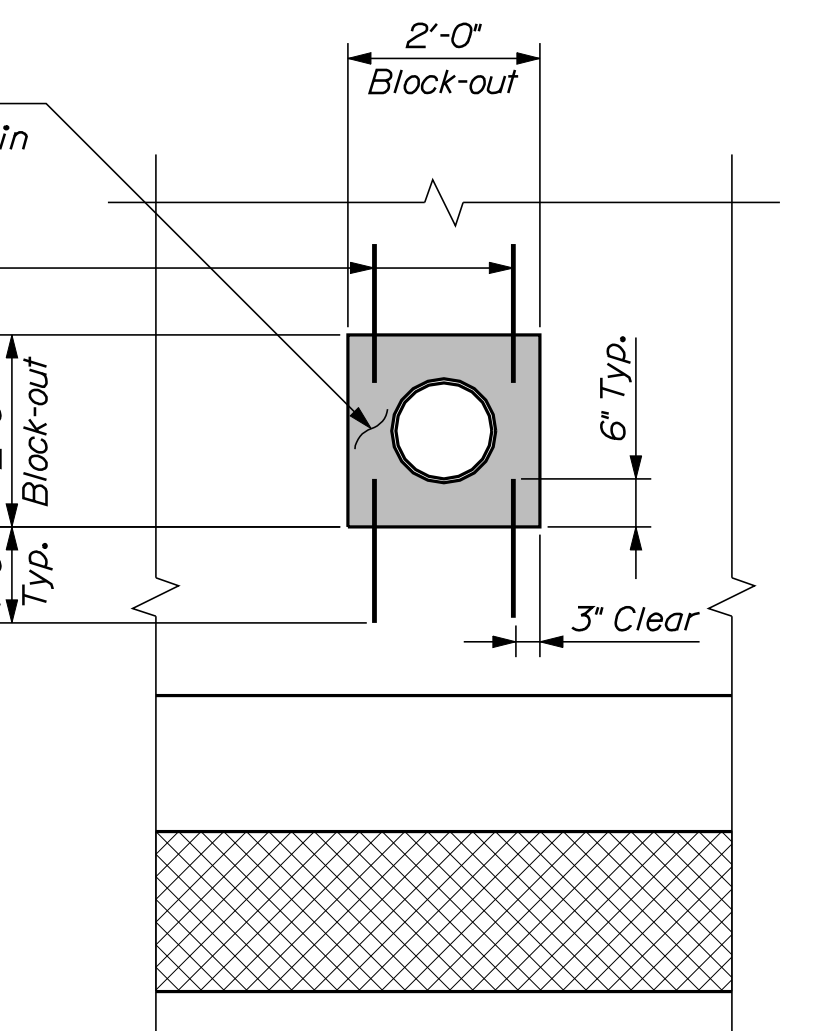
CAST-IN-PLACE HEADWALL PLAN SECTION



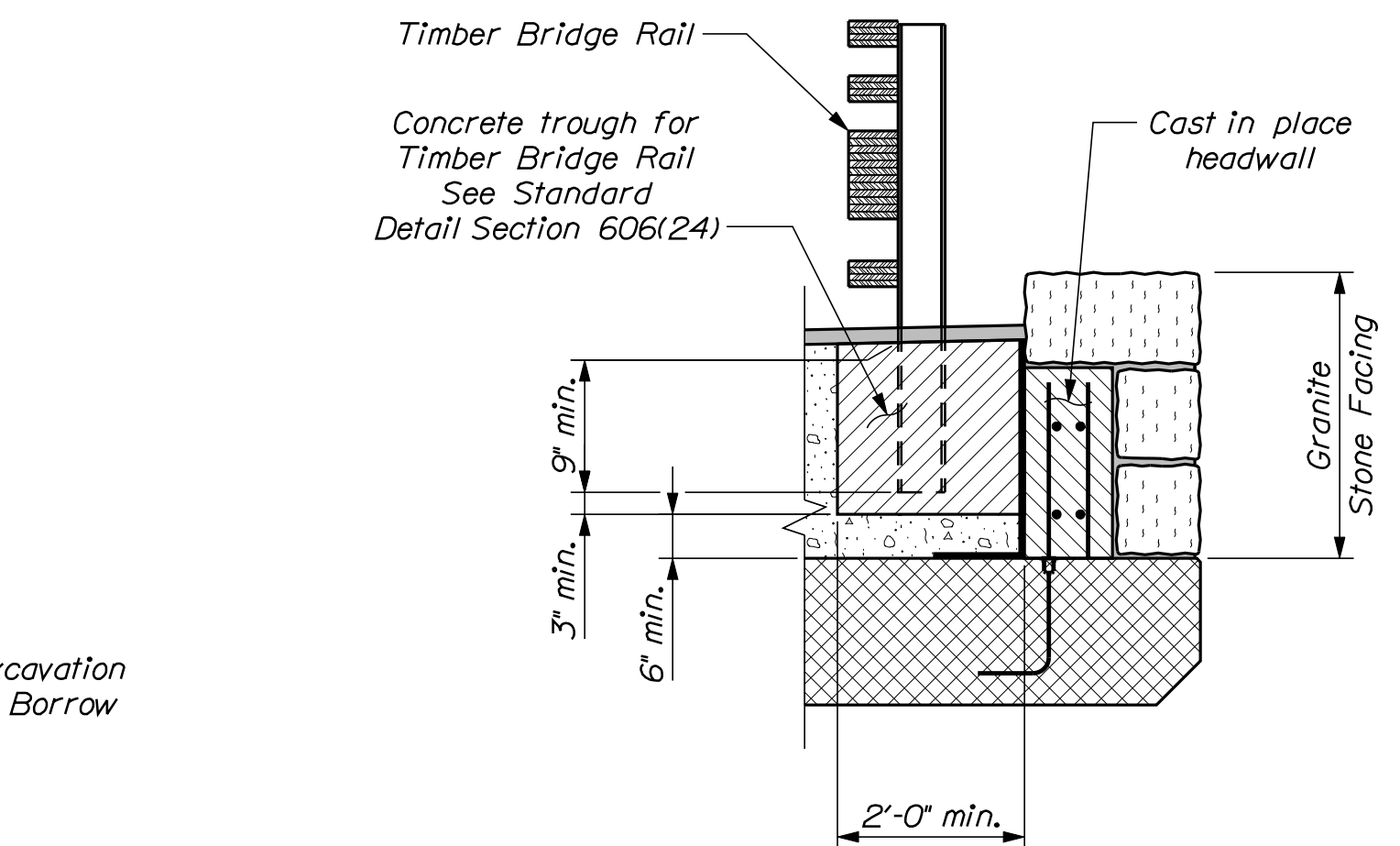
CAST-IN-PLACE HEADWALL ELEVATION
South Cast-in-place Headwall Shown - North Cast-in-place Headwall Similar



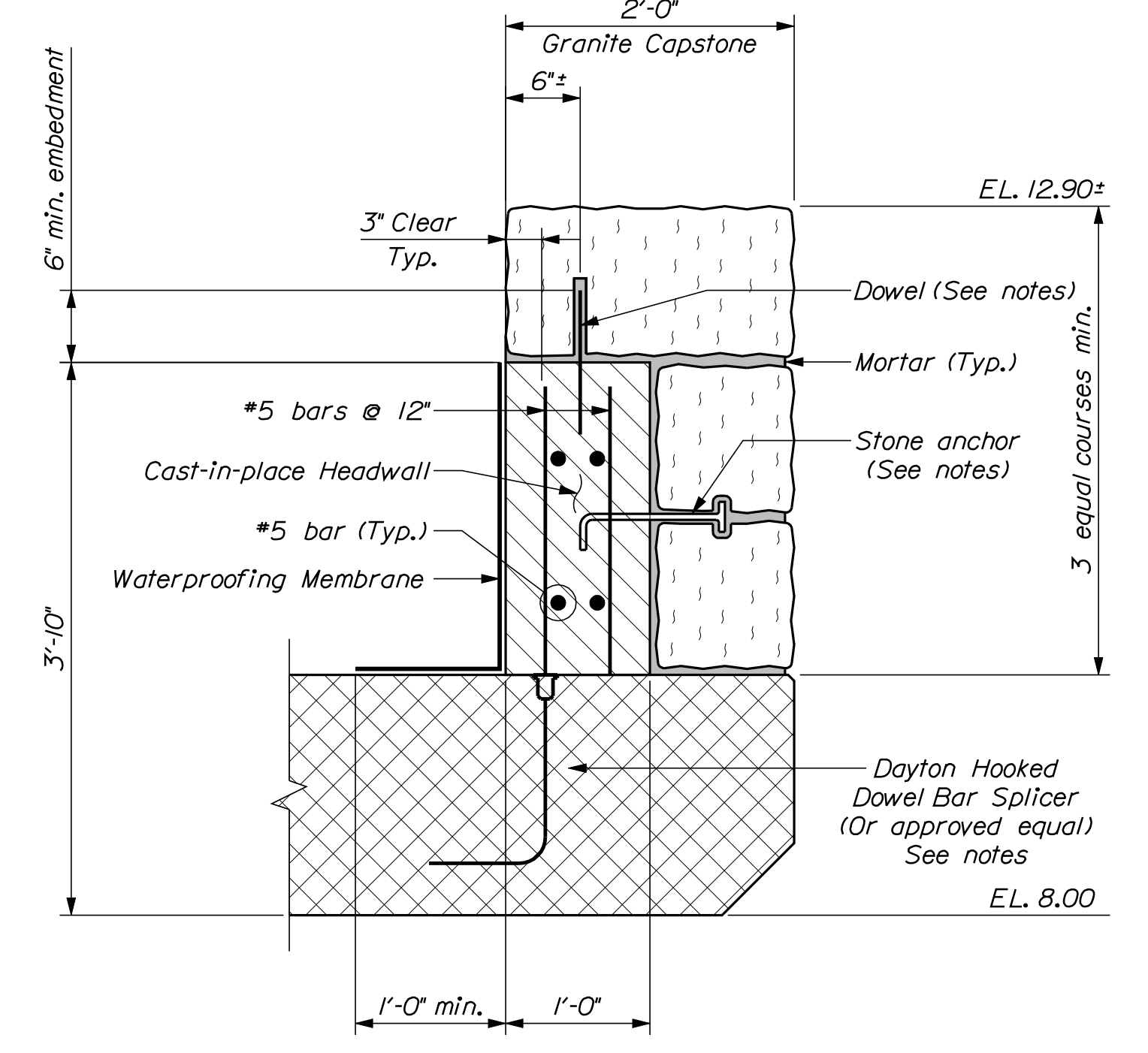
BLOCK-OUT DETAIL SECTION



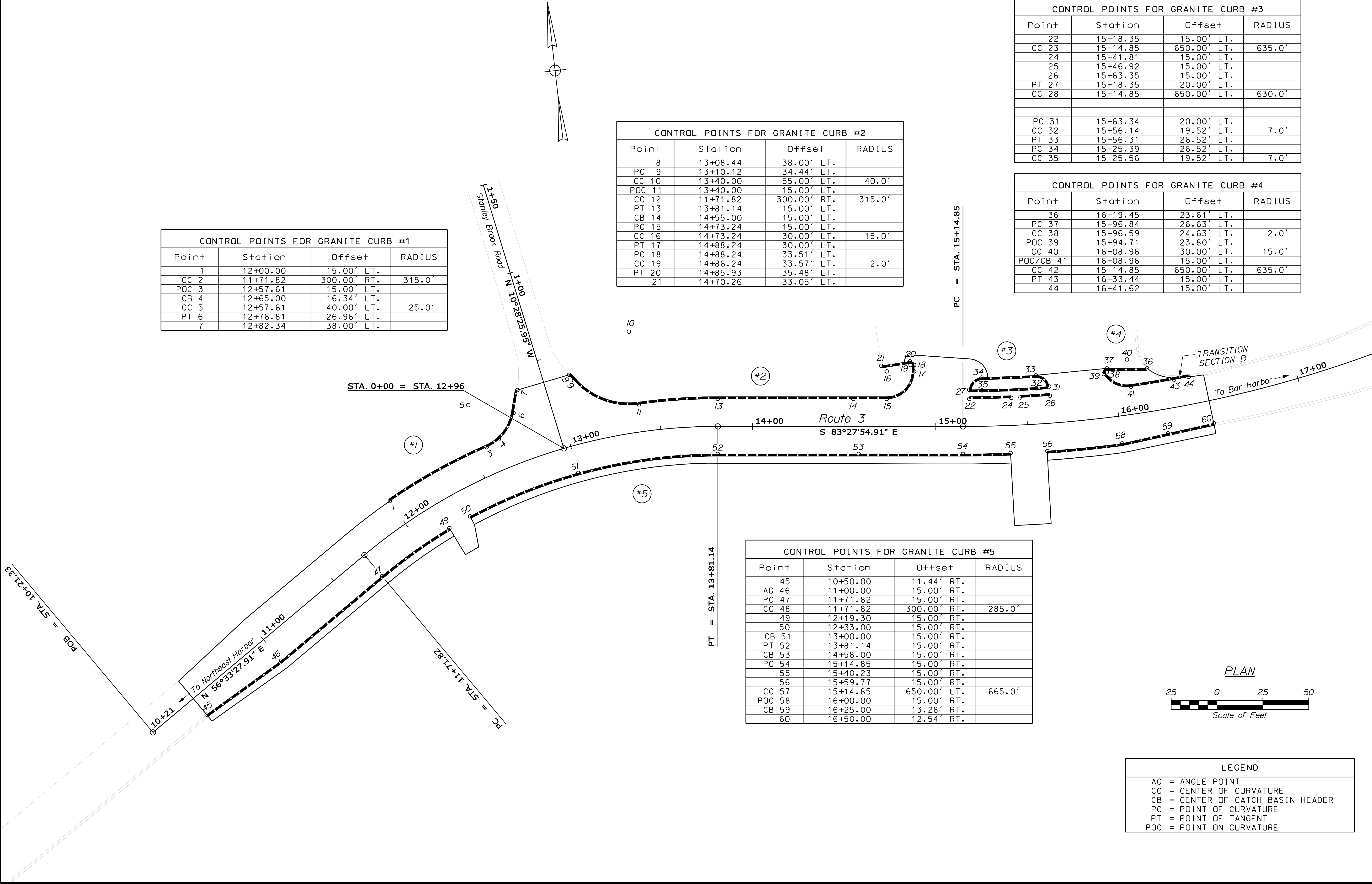
BLOCK-OUT DETAIL ELEVATION



HEADWALL DETAIL



HEADWALL ATTACHMENT DETAIL



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

16718.00

PIN
16718.00

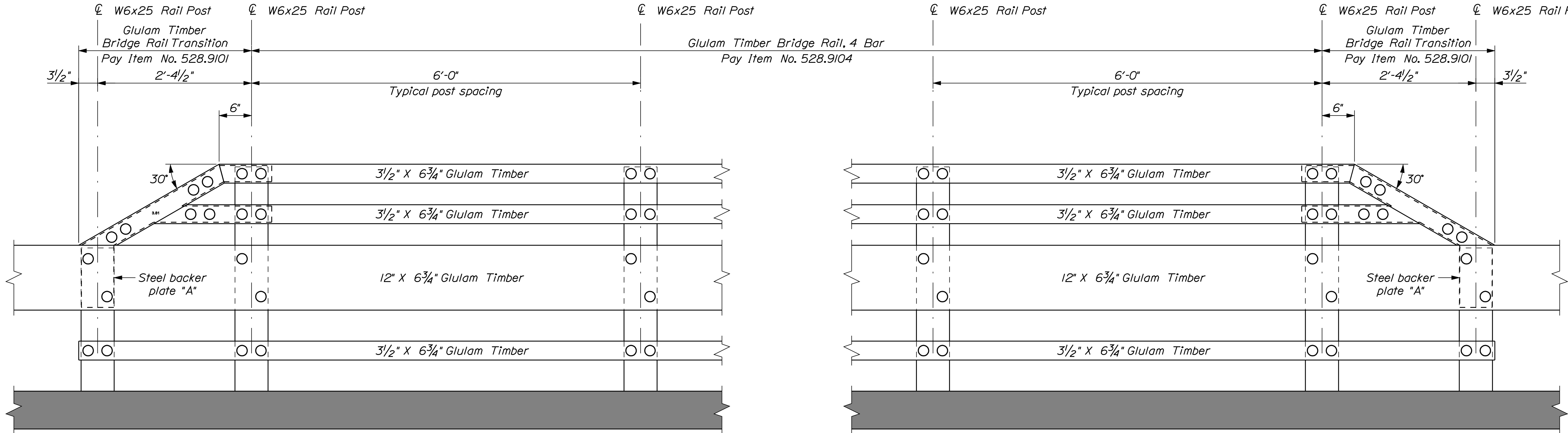
BRIDGE NO. 5570

BRIDGE PLANS

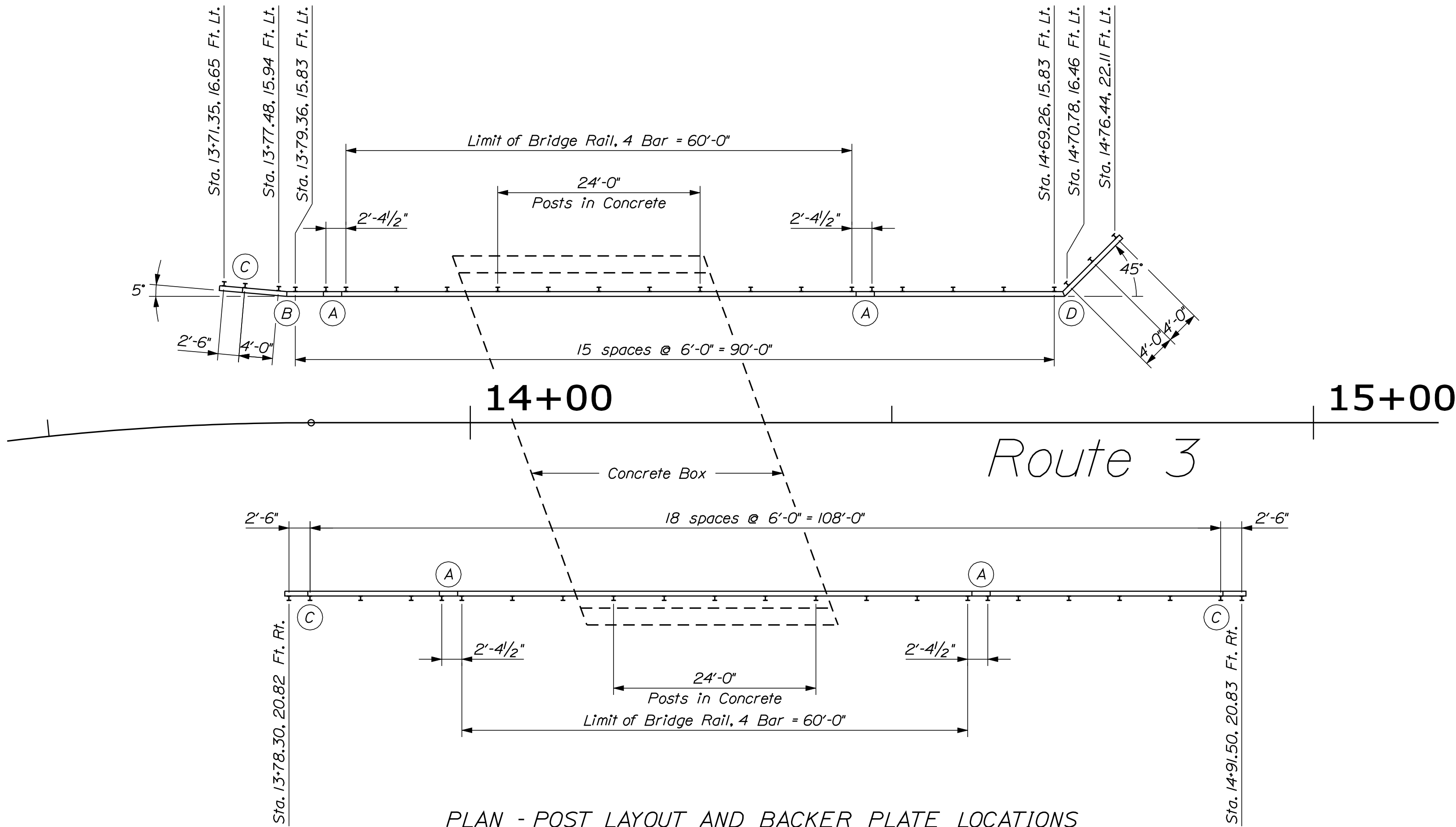
STANLEY BROOK BRIDGE
STANLEY BROOK
MOUNT DESERT HANCOCK COUNTY

SHEET NUMBER
19
OF 29

DATE	BY	PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
APR 2011	D. Shaw	S. Bodge	R. Myers	M. Wright						
SIGNATURE										
P.E. NUMBER										
DATE										



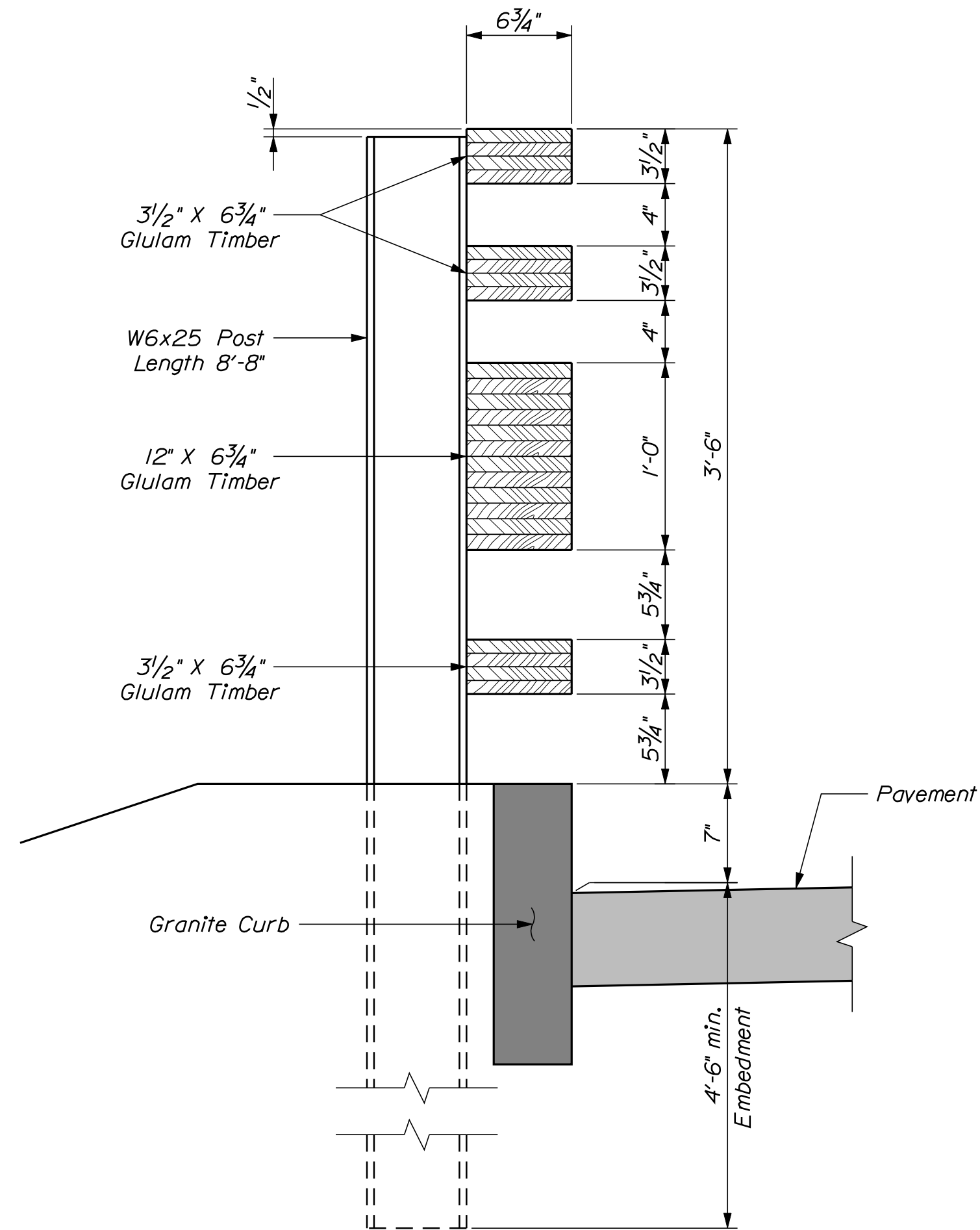
ELEVATION - GLULAM TIMBER BRIDGE RAIL, 4 BAR AND TRANSITIONS
Sta. 13+82.6± Lt. to Sta. 14+47.9± Lt. and Sta. 13+96.3± Rt. to 14+61.7± Rt.



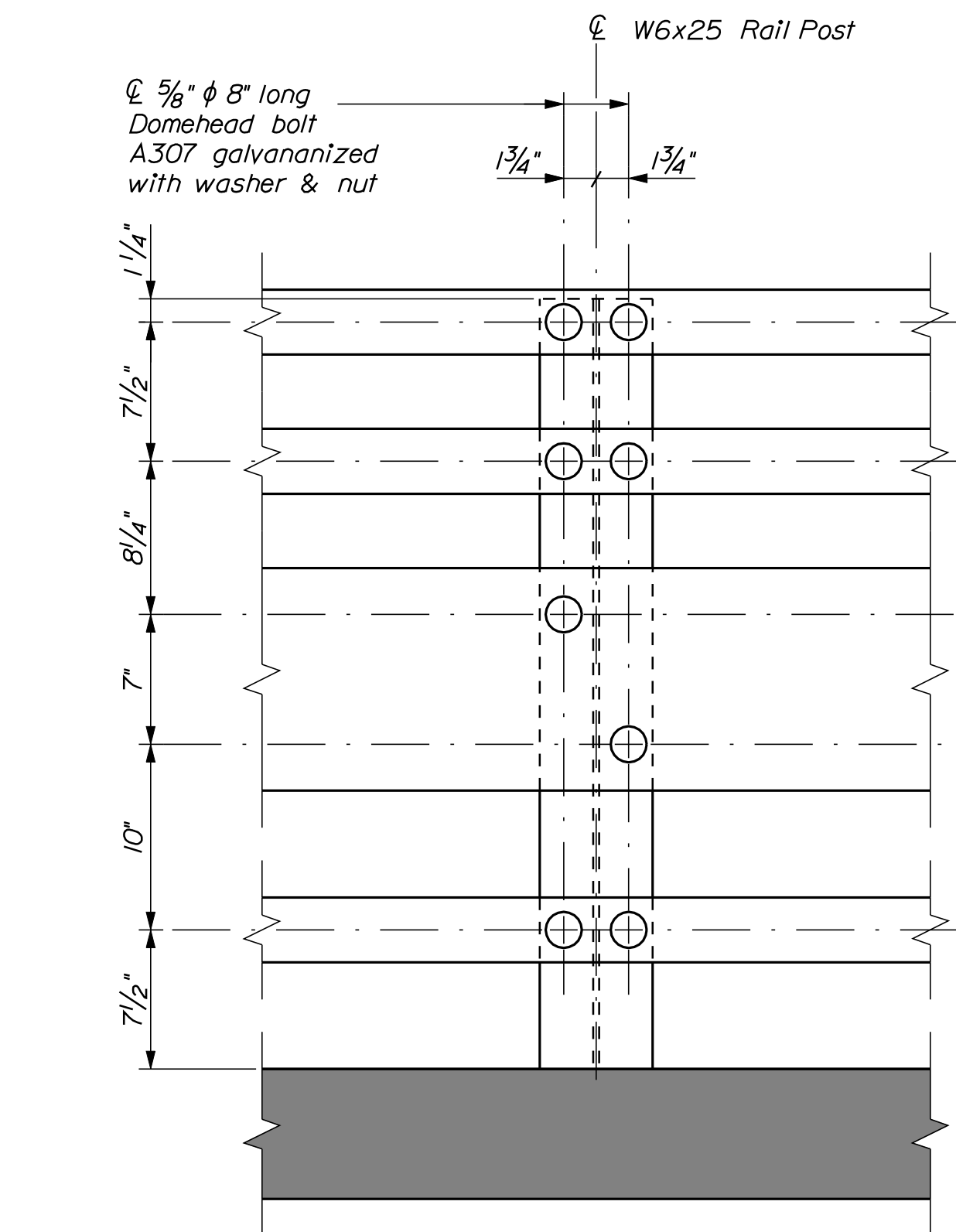
PLAN - POST LAYOUT AND BACKER PLATE LOCATIONS
Station/Offset given to center of posts

(A) Backer Plate designation

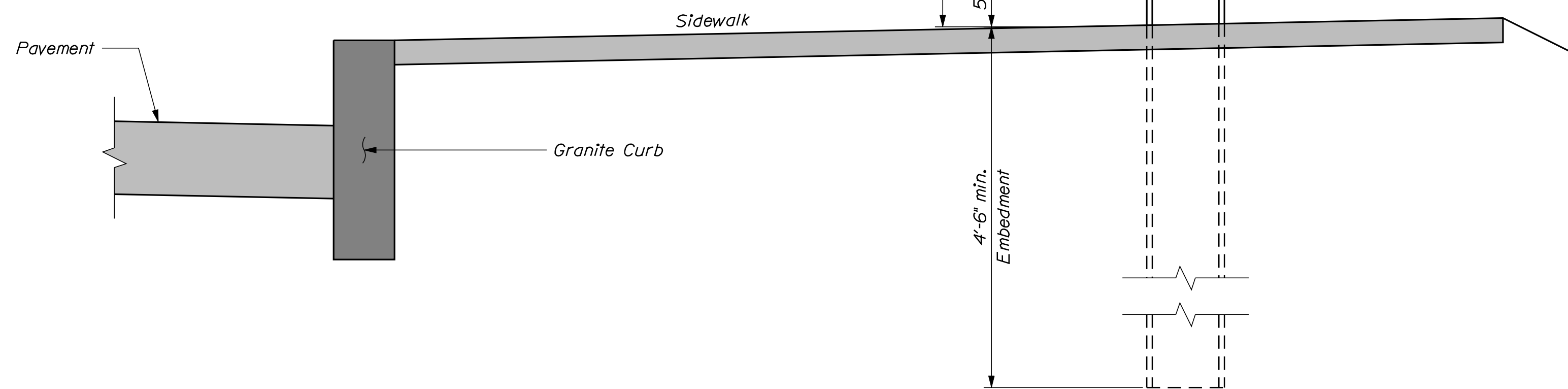
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE		DATE
	P.E. NUMBER		DATE
	BRIDGE NO. 5570		BRIDGE PLANS
STANLEY BROOK BRIDGE STANLEY BROOK MOUNT DESERT HANCOCK COUNTY		GLULAM TIMBER RAIL LAYOUT	
SHEET NUMBER		20	
OF 29		16718.00	
PIN		16718.00	



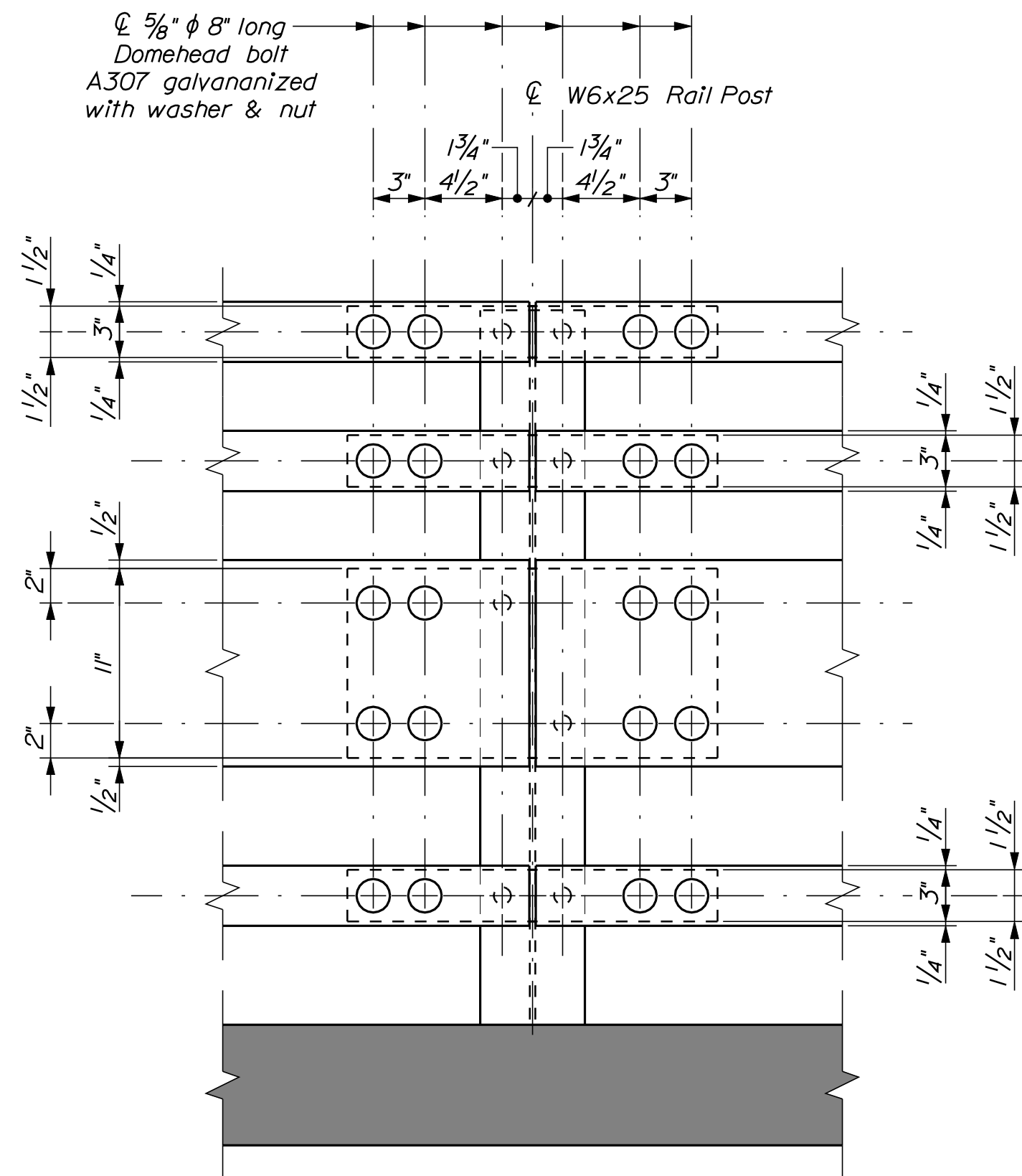
GLULAM TIMBER BRIDGE RAIL, 4 BAR SECTION



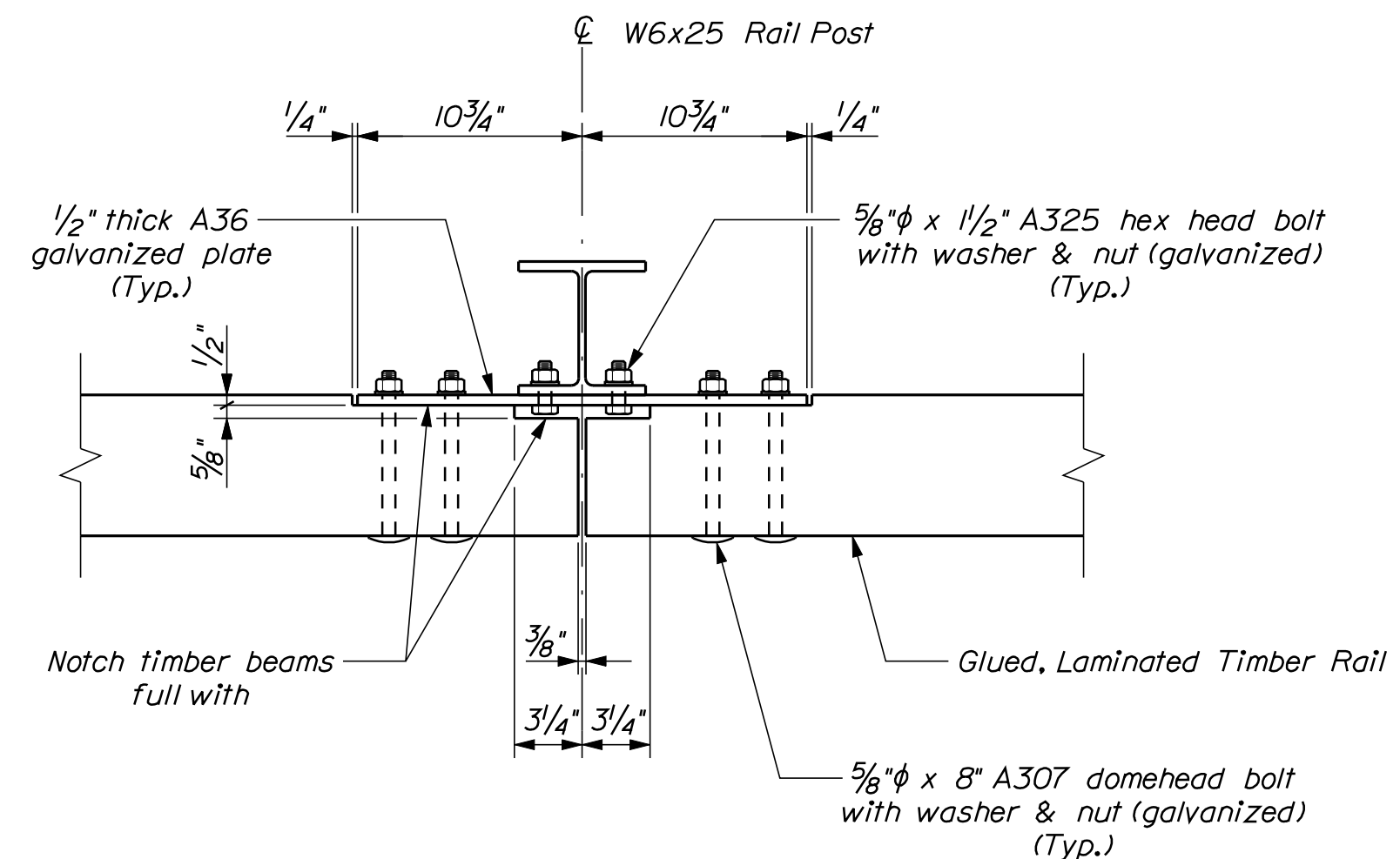
GLULAM TIMBER BRIDGE RAIL, 4 BAR ELEVATION
(Typical at continuous rail locations)



GLULAM TIMBER BRIDGE RAIL, 4 BAR SECTION

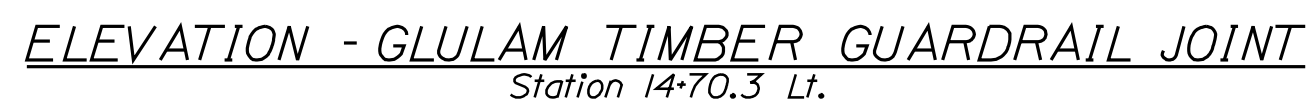
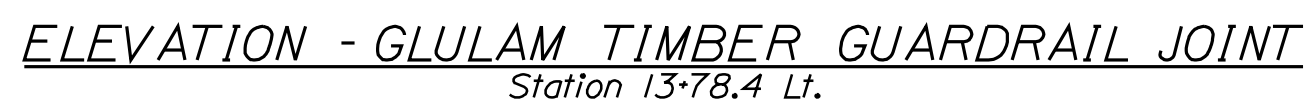
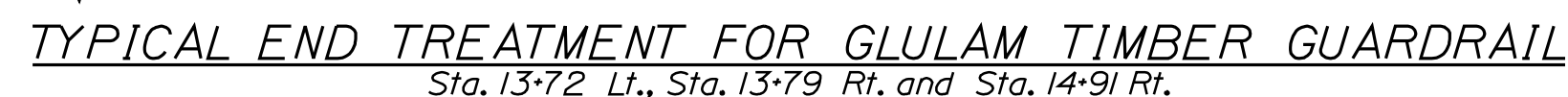


GLULAM TIMBER BRIDGE RAIL, 4 BAR ELEVATION
(Typical at rail splice locations)

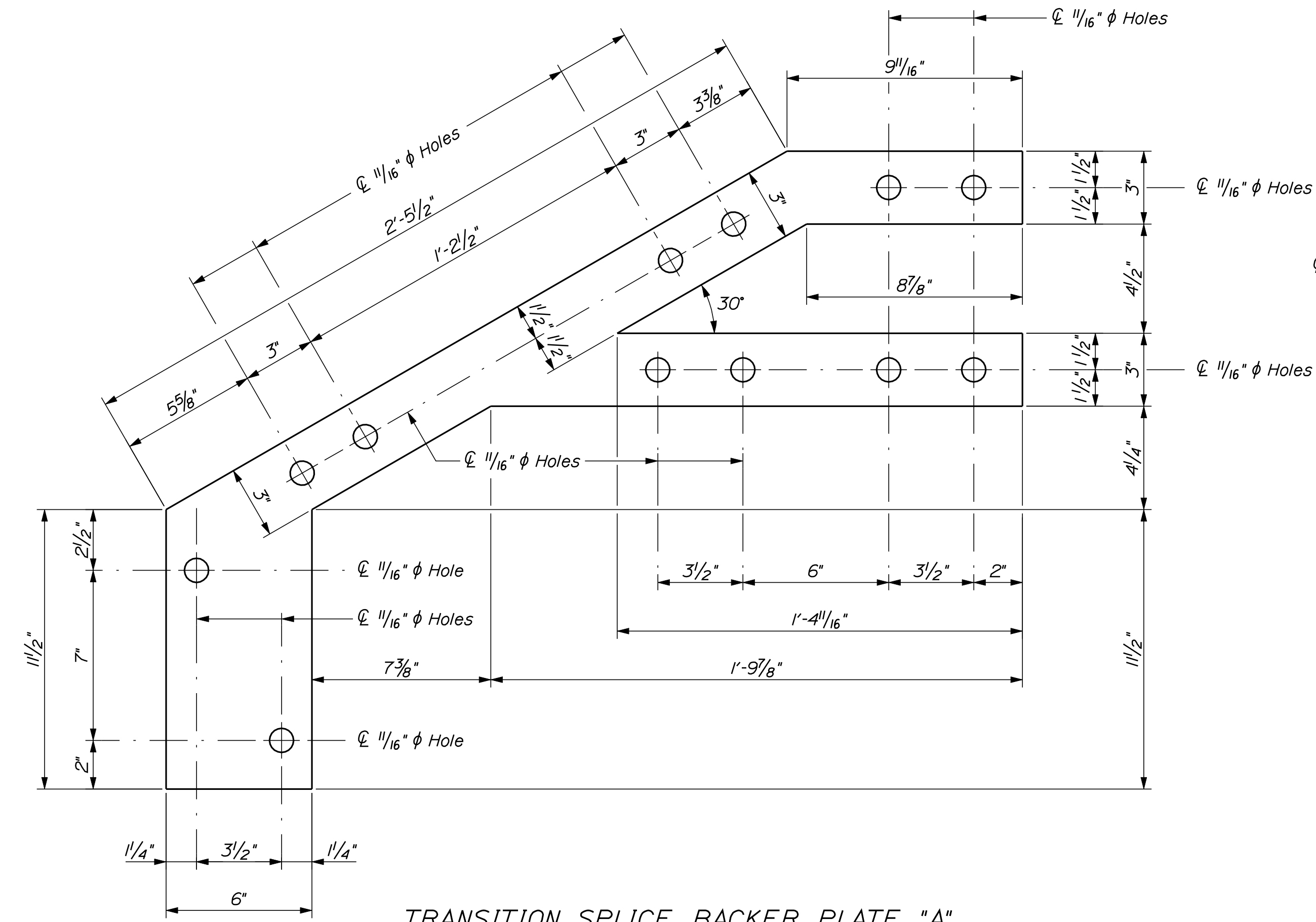


PLAN - TYPICAL RAIL SPLICE

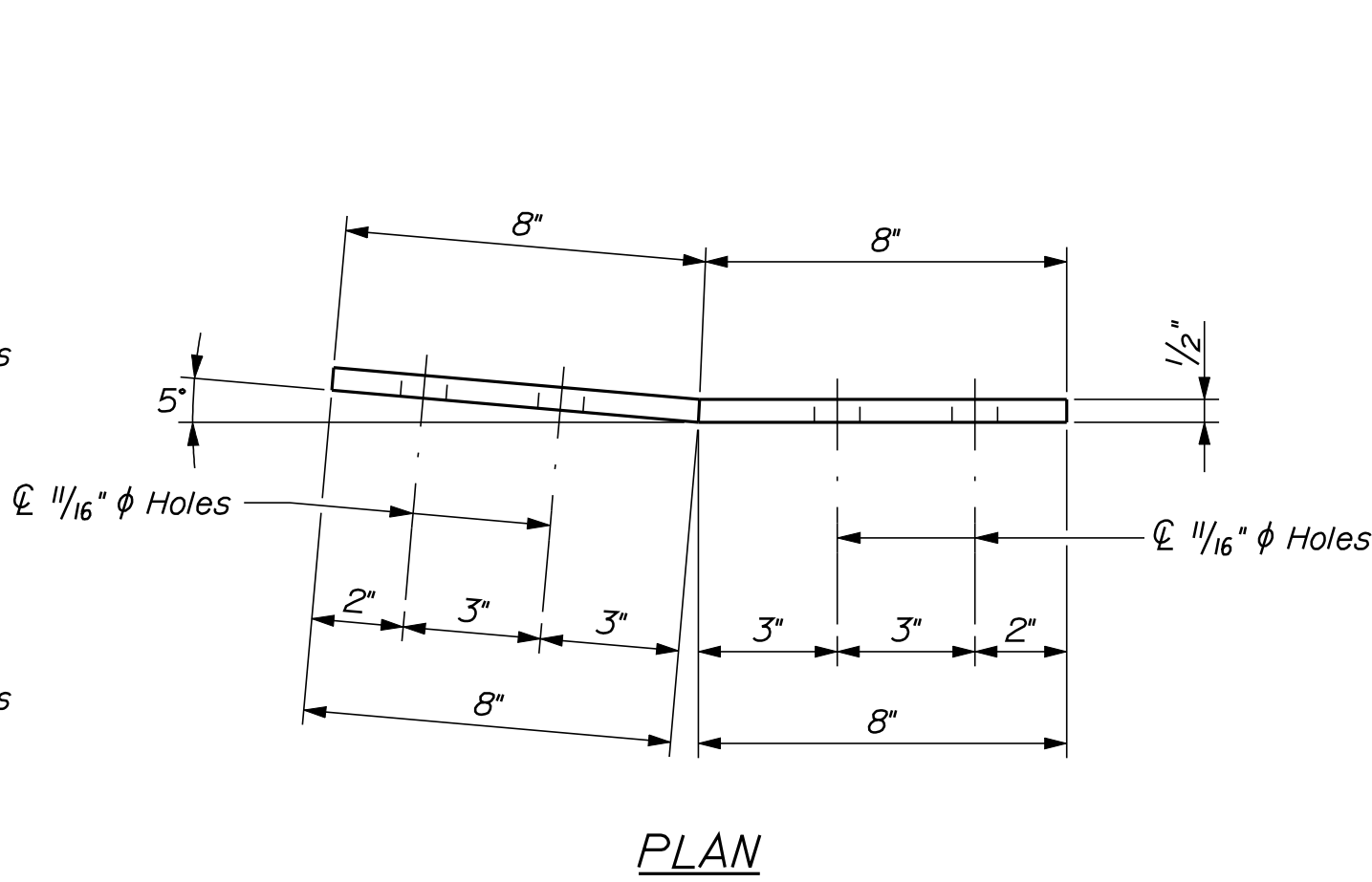
21 OF 29	SHEET NUMBER	STANLEY BROOK BRIDGE	PROJ. MANAGER	S. Bodge	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION 16718.00
		STANLEY BROOK	CHECKED-REVIEWED	R. Myers	D. Snow	APR 2011	
		MOUNT DESERT	DESIGN-DETAILED	M. Wright	M. Poulain	SIGNATURE	
		HANCOCK COUNTY	DESIGN2-DETAILED2	P.E. NUMBER			
		GLULAM TIMBER RAIL DETAILS	DESIGN3-DETAILED3	DATE			
			REVISIONS 1				BRIDGE NO. 5570 PIN 16718.00 BRIDGE PLANS
			REVISIONS 2				
			REVISIONS 3				
			REVISIONS 4				
			FIELD CHANGES				



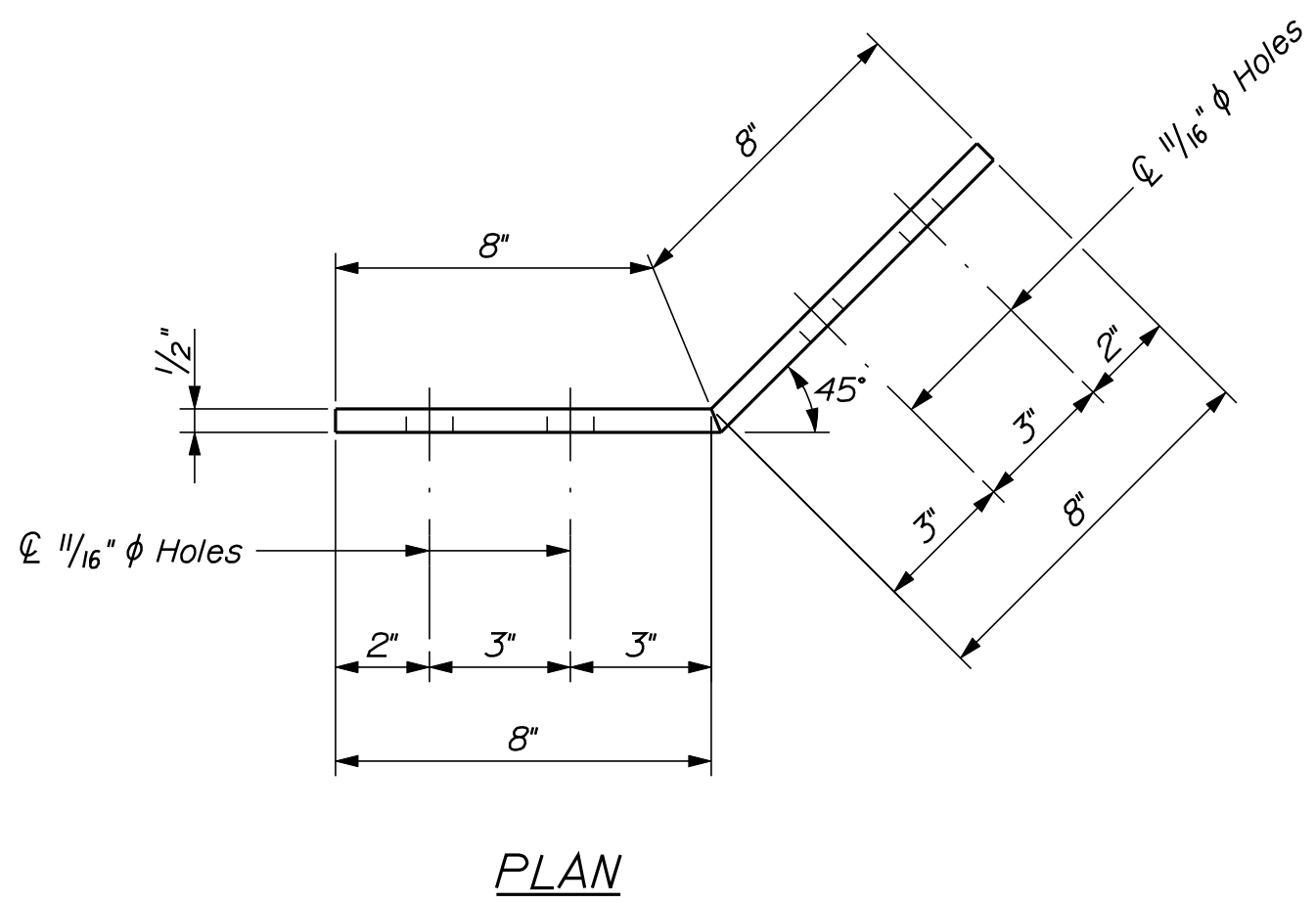
22 OF 29	SHEET NUMBER				STANLEY BROOK BRIDGE				PROJ. MANAGER	S. Borge	BY	DATE	STATE OF MAINE				
					STANLEY BROOK				DESIGN-DETAILED	R. Myers	D. Stone	APR 2011	DEPARTMENT OF TRANSPORTATION				
					MOUNT DESERT				CHECKED-REVIEWED	M. Wright	M. Poulin						
					HANCOCK COUNTY				DESIGN2-DETAILED2				SIGNATURE				
									DESIGN3-DETAILED3								
									REVISIONS 1				P.E. NUMBER				
									REVISIONS 2								
									REVISIONS 3								
									REVISIONS 4								
									FIELD CHANGES				DATE				
GLULAM TIMBER RAIL DETAILS												BRIDGE NO. 5570		PIN		BRIDGE PLANS	
														16718.00			



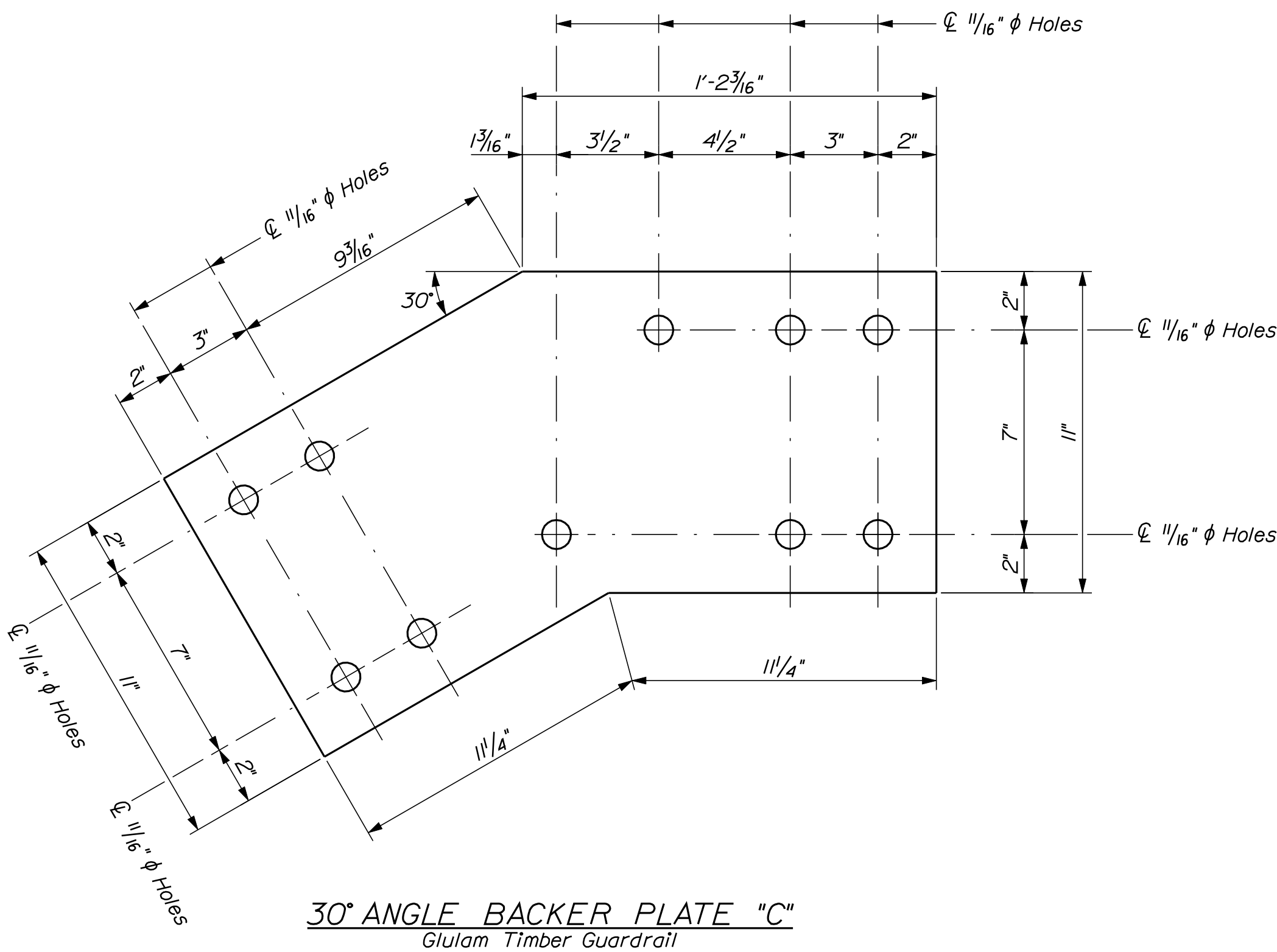
TRANSITION SPLICE BACKER PLATE "A"
Glulam Timber Guardrail to
Glulam Timber Bridge Rail, 4 Bar



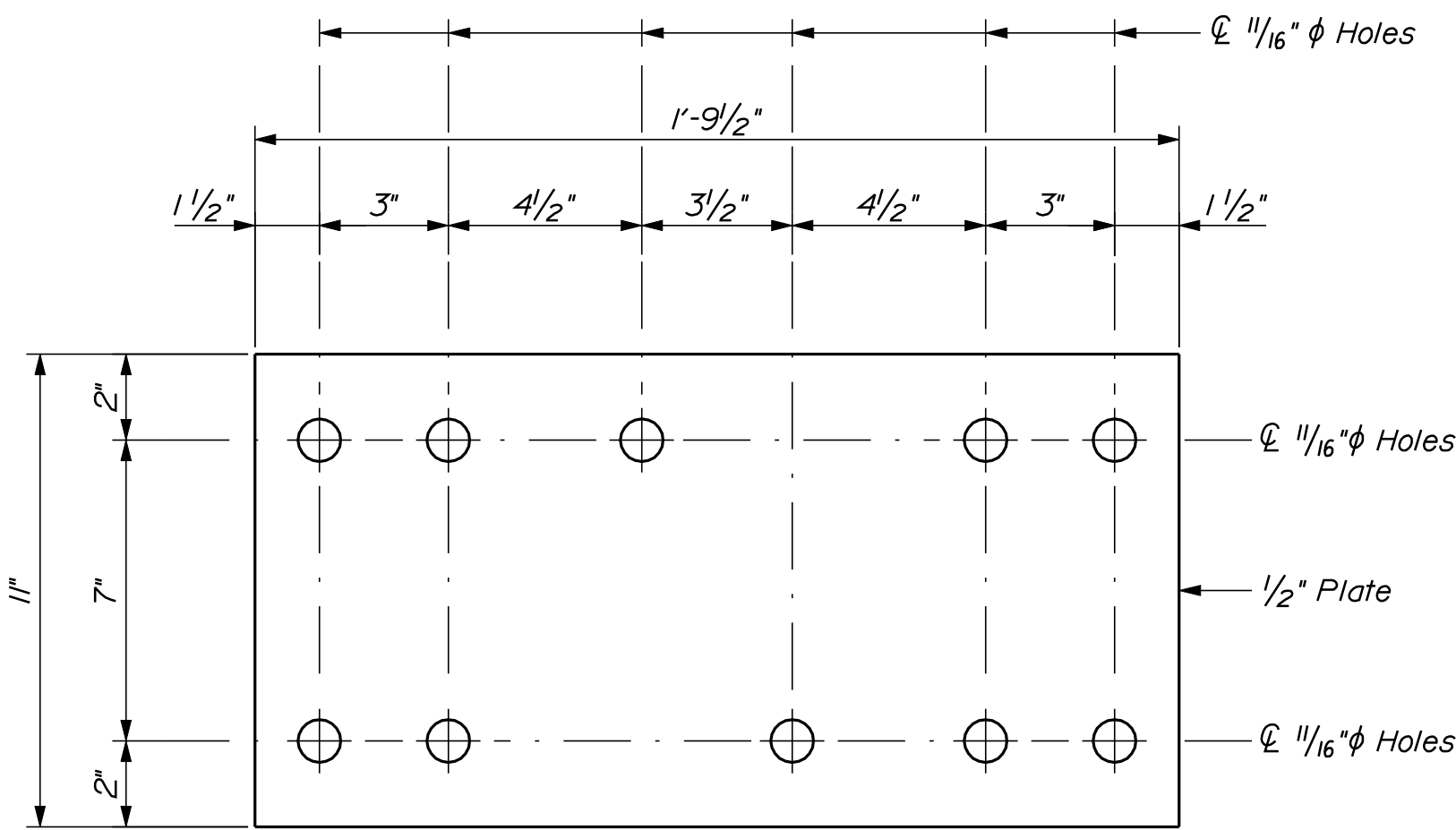
5° ANGLE BACKER PLATE "B"
Glulam Timber Guardrail



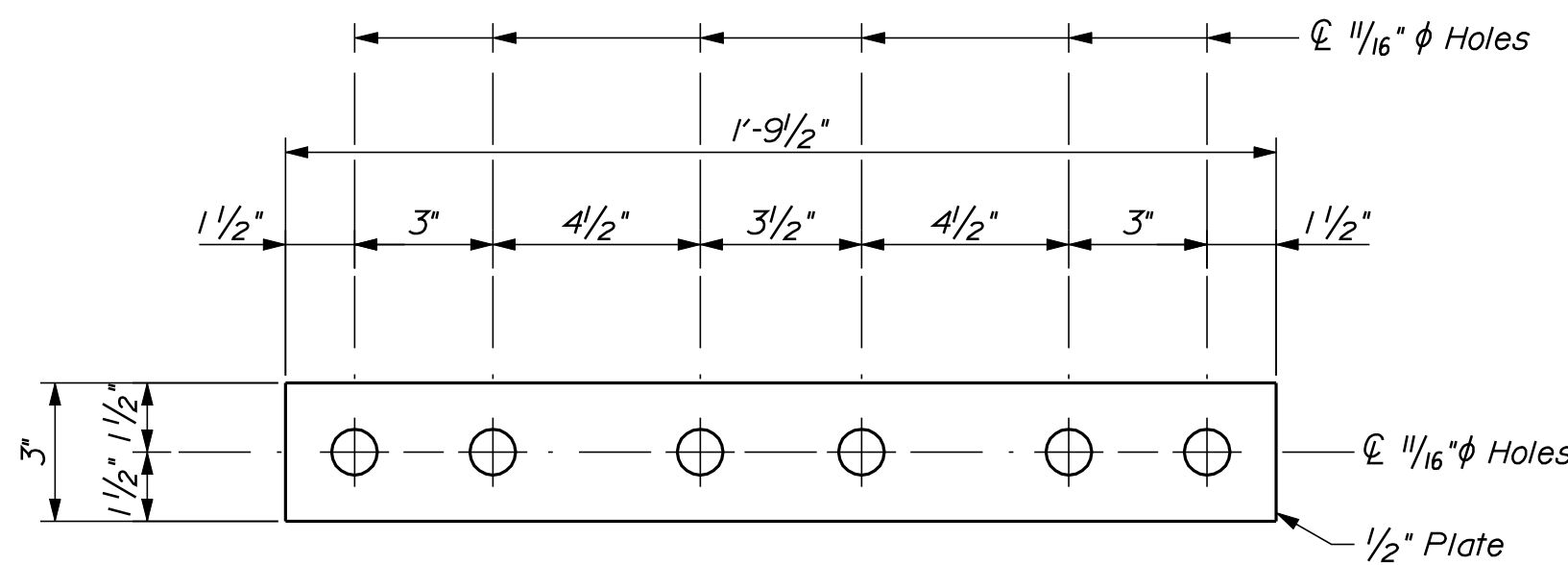
45° ANGLE SPLICE BACKER PLATE "D"
Glulam Timber Guardrail



30° ANGLE BACKER PLATE "C"
Glulam Timber Guardrail



SPLICE BACKER PLATE
For 12 inch Glulam Timber Rail



SPLICE BACKER PLATE
For 3 1/2 inch Glulam Timber Rail

NOTES:

1. Use galvanized steel for all structural steel and fastener hardware.
2. All backer and splice plates to be 1/2 inch thick.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION				16718.00				PIN 16718.00				BRIDGE NO. 5570				BRIDGE PLANS			
STANLEY BROOK BRIDGE				HANCOCK COUNTY				MOUNT DESERT				STANLEY BROOK				GLULAM TIMBER RAIL			
DESIGN-DETAILED				CHECKED-REVIEWED				DESIGN-DETAILED				CHECKED-REVIEWED				DESIGN-DETAILED			
REVISIONS 1				REVISIONS 2				REVISIONS 3				REVISIONS 4				FIELD CHANGES			
PROJ. MANAGER				BY				DATE				SIGNATURE				P.E. NUMBER			
S. Bodge				D. Shaw				APR 2011				M. Poulin							
R. Myers				M. Wright															
SHEET NUMBER				23				OF 29											

Date:4/21/2011

Username: dovid.show

Division: BRIDGE

Filename: ... \00\ROW\MSTA001_RWP\PLAN1.dgn

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
ITEM NO. (2)
CONST. & MAINT. EASE. = 0.06± AC.(1)
DRAINAGE EASE. = (1)
TEMP. CONST. RIGHTS = 0.06± AC.(1)
TOTAL AREA = VAST HOLDINGS

SEE SURVEY PLAN SHOWING PROPERTY
OF JOHN D. ROCKEFELLER AT SEAL HARBOR, ME
PLAN BOOK 9, PAGE 1

TOWN OF MOUNT DESERT
ITEM NO. (3)
CONST. & MAINT. EASE. = 575± S.F.(1)
TEMP. CONST. RIGHTS = 1220± S.F.(1)
TOTAL AREA = 5.21± AC.(OWNER)

P.I. STA. 12+59.61
D = 19°-05'-54.9"
Δ = 39°-58'-37.2" RT.
T = 109.12'
L = 209.32'
E = 19.23'
R = 300.00'

TOWN OF MOUNT DESERT
ITEM NO. (1)
CONST. & MAINT. EASE. = 0.16± AC.(1)
TEMP. CONST. RIGHTS = 1330± S.F.(1)
TOTAL AREA = 3.50± AC.(OWNER)

P.I. STA. 16+53.76
D = 8°-48'-53.0"
Δ = 27°-41'-54.2" LT.
T = 160.25'
L = 314.23'
E = 19.46'
R = 650.00'

SYMBOLS	
• P or • R/P (IRON PIPE or PIN FOUND)	○ WELL
□ S.T. (SEPTIC TANK)	--- GRADING LIMIT LINE
▢ S.T. (SEPTIC TANK)	--- CONSTRUCTION LIMIT LINE
▣ S.T. (SEPTIC TANK)	--- PROPERTY LINE
▤ S.T. (SEPTIC TANK)	--- PL
▥ S.T. (SEPTIC TANK)	--- LIMITS OF VACUUM PORTION (LOW P.)
▧ S.T. (SEPTIC TANK)	--- EXISTING RIGHT OF WAY
▨ S.T. (SEPTIC TANK)	--- NEW RIGHT OF WAY
▩ S.T. (SEPTIC TANK)	--- NEW ROW WITHIN EXIST. ROW
▪ S.T. (SEPTIC TANK)	--- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	D.S.G.	
PROP. LINES	T.L.B.	
AREAS	T.L.B.	D.S.G.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
MOUNT DESERT
RIGHT OF WAY MAP

SHEET NUMBER
24
OF 29

EXISTING R/W
HANCOCK COUNTY
VOL. 17 PAGE 434
1909 3 RODS WIDE

BRIDGE NO. 5570
STANLEY BROOK
PIN 16718.00

REVISIONS				PLAN FILED IN PLAN BOOK						COUNTY RECORD					
NO.	DATE	DESCRIPTION	BY	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

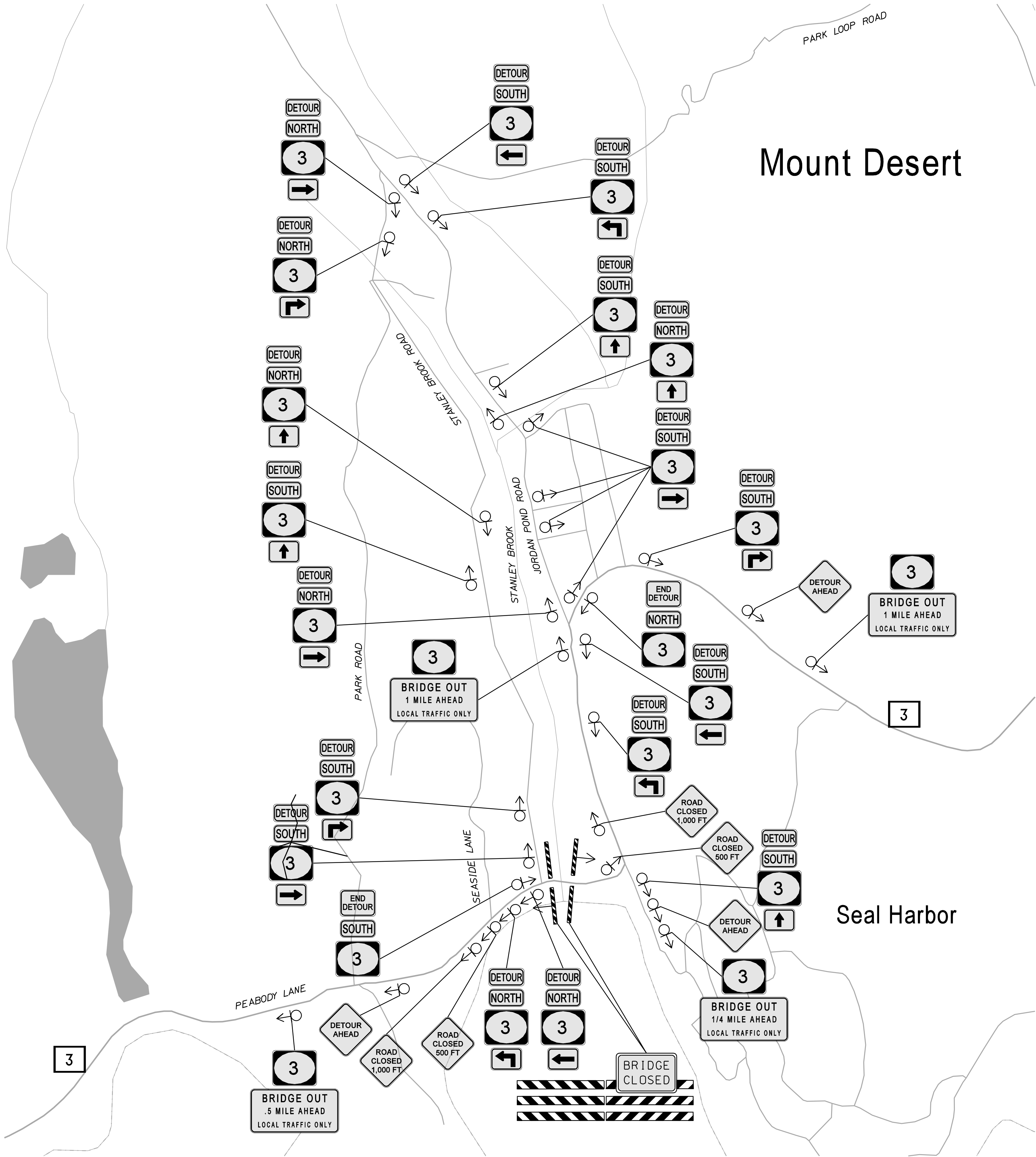
DAVID A. COLE
COMMISSIONER
KENNETH L. SWEENEY
CHIEF ENGINEER

DATE



STATE AID HIGHWAY NO. 1
ROUTE 3
MOUNT DESERT HANCOCK COUNTY
STATE PROJECT NO. 16718.00

SEPTEMBER 2010
SCALE 1" = 25'
RIGHT-OF-WAY MAP
SHEET 1 OF 1
D.O.T. FILE NO. 5-283



- DETOUR NOTES**
- 1. Contractor is responsible for placing Traffic Control signs.
 - 2. Traffic Sign spacing to be determined by the Resident in accordance with MUTCD
 - 3. Install 30' Temporary Concrete Barrier at each end of the project (60' feet total)
 - 4. Install 2 Type III Barricades on each side of the bridge (4 total)
 - 5. Cover or remove all conflicting route and directional signs.
 - 6. The message board shall be in place a minimum 3 weeks prior to the bridge closure, no sooner than 5 weeks before the bridge closure, and state the following:

- Prior to closure - Screen 1: Route 3
Seal Harbor

Screen 2: Vehicle Height Limited

Screen 3: Sept XX to Oct XX

- During closure - Screen 1: Vehicle Height Limited

Screen 2: Through Seal Harbor

Screen 3: 10 Feet 7 Inch Max

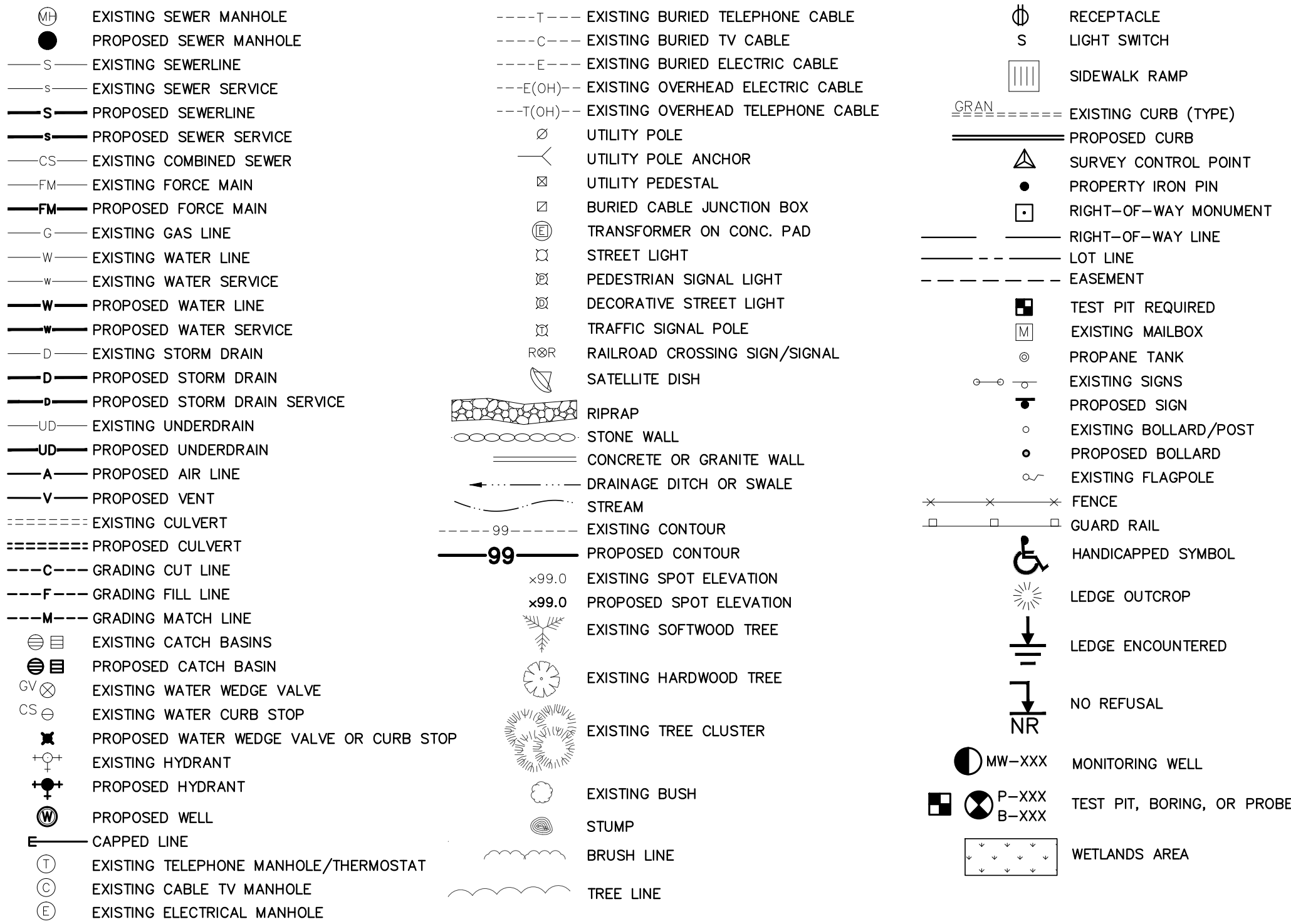
SIGN SIZES			
	60" x 48"		36" x 36" W20-3
	60" x 30" R11-3a		36" x 36" W20-3
	24" x 12" M4-B		24" x 18" M4-8a
	21" x 15" M6-3		24" x 12" M3-1
	21" x 15" M6-1L		24" x 12" M3-3
	21" x 15" M6-1R		36" x 36" W20-2
	21" x 15" M5-1L		24" x 24" M1-5
	21" x 15" M5-1R		

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BRIDGE PLANS	
		16718.00		PIN 16718.00	
		BRIDGE NO. 5570			
		SIGNATURE		P.E. NUMBER	
		DATE		DATE	
STANLEY BROOK BRIDGE		PROJ. MANAGER	S. Bodge	BY	DATE
STANLEY BROOK		CHECKED-DETAILED	R. Myers	D. Shaw	APR 2011
MOUNT DESERT		CHECKED-REVIEWED	M. Wright	M. Poulin	
HANCOCK COUNTY		DESIGN DETAILING			
LOCAL TRAFFIC CONTROL		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
SHEET NUMBER		26			
		OF 29			

GENERAL NOTES

1. UTILITY LOCATIONS AS SHOWN ARE APPROXIMATE BASED ON AVAILABLE INFORMATION AT TIME OF SURVEY. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATION AND CONFIRMATION OF ALL EXISTING UTILITIES INCLUDING SEWER, DRAINAGE, CABLE TV, WATER, ELECTRICAL, AND TELEPHONE. IT IS POSSIBLE THAT OTHER ACTIVE AND INACTIVE UTILITIES MAY EXIST IN THE PROJECT AREA. CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING EXCAVATION.
2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH THE OWNER OF EACH UTILITY TO FIELD LOCATE UTILITIES AND TO MINIMIZE DISRUPTION. CONTINUOUS SEWER, WATER, AND DRAIN SERVICE MUST BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.
3. TEST PITS ARE REQUIRED AT ALL EXISTING UTILITY CROSSINGS BY SEWER MAIN LINE.
4. TEST PITS ARE REQUIRED AT ALL BURIED PIPING TIE-IN LOCATIONS TO VERIFY LOCATION AND ELEVATION. IN SOME AREAS, TEST PITS ARE REQUIRED IN ADVANCE TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES.
5. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ANY UNDERGROUND PUBLIC OR PRIVATE ELECTRICAL AND TELEPHONE UTILITIES WITH DIG-SAFE OR OWNER PRIOR TO EXCAVATION.
6. PORTIONS OF SURVEY DATA AND RIGHT-OF-WAY INFORMATION ARE BASED ON PLANS TITLED "STATE OF MAINE DEPT. OF TRANSPORTATION, MOUNT DESERT STANLEY BROOK BRIDGE OVER STANLEY BROOK, STATE ROUTE 3, PROJECT NO. 16718.00". NO LEGAL REPRESENTATION OF PROPERTY LINE, EASEMENTS AND RIGHT-OF-WAY INFORMATION IS INTENDED, NOR WAS ANY FORMAL BOUNDARY SURVEY CONDUCTED.
7. CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY TO ENSURE THAT ALL WORK MEETS ALL OSHA AND OTHER APPLICABLE CODE AND HEALTH AND SAFETY REQUIREMENTS.
8. CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK. TOWN'S ENGINEER WILL ASSIST ONLY IN PROVIDING REFERENCE POINTS AND ELEVATION DATA FOR INITIAL LAYOUT ONLY. CONTRACTOR SHALL MAINTAIN LAYOUT THROUGHOUT PROJECT.
9. CONTRACTOR SHALL PROPERLY PROTECT AND AVOID DISTURBING PROPERTY PINS AND MONUMENTS. IF DISTURBED, THE PROPERTY PIN OR MONUMENT SHALL BE RESET AT CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR APPROVED BY THE TOWN'S ENGINEER.
10. CONTRACTOR SHALL EXERCISE APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN ACCORDANCE WITH ACCEPTED PRACTICE, APPLICABLE LAWS AND REGULATIONS, AND REQUIREMENTS OF CONTRACT DOCUMENTS.
11. CONTRACTOR SHALL PROVIDE REDUNDANT TEMPORARY PUMPING AS NEEDED TO BYPASS SEWAGE AROUND WORK AREAS.
12. CONTRACTOR SHALL CONTROL DUST GENERATED DURING THE PROJECT TO A LEVEL SATISFACTORY TO THE OWNER AND ENGINEER.
13. ALL DISTURBED GRASS OR VEGETATED AREAS SHALL BE REVEGETATED ACCORDING TO SPECIAL PROVISION SEEDING METHODS IN MDOT SPECIFICATIONS.
14. ALL AREAS NOT DESIGNATED FOR FURTHER CONSTRUCTION DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE NOTED. COST OF RESTORATION IS INCIDENTAL TO CONTRACT OUTSIDE OF PAY LIMITS.
15. ALL TRENCH ROUTES IN EXISTING PAVED AREAS SHALL BE SAWCUT PRIOR TO TRENCH EXCAVATION AND AGAIN PRIOR TO FINAL PAVING.
16. RESET OR REPLACE ALL DISTURBED SIGNS, PLANTINGS AND ALL OTHER SITE FEATURES AS SOON AS PRACTICAL.
17. REPAVE ALL TRENCH ROUTES IN EXISTING PAVED AREAS WITH MINIMUM 4" PAVEMENT.
18. ALL SEWER LINES SHALL BE PROPERLY FLUSHED BY CONTRACTOR AT COMPLETION OF PROJECT, OR WHENEVER CONSTRUCTION DEBRIS ENTERS OPEN PIPE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT CONSTRUCTION MATERIALS AND DEBRIS FROM ENTERING OPEN PIPE LINES AND SHALL BE RESPONSIBLE FOR THE COST OF ANY REPAIRS FROM DAMAGE THAT RESULTS FROM SUCH DEBRIS.
19. MANHOLE RIM ELEVATIONS ARE PROVIDED ON PLAN SHEETS TO ESTABLISH GENERAL HEIGHT OF NEW STRUCTURES FOR BIDDING PURPOSES. EXACT RIM ELEVATIONS SHALL BE ESTABLISHED IN THE FIELD SUCH THAT TOP OF RIM IS 0.05' BELOW FINAL PAVEMENT, GRAVEL OR LAWN AND 2'-0" ABOVE CROSS-COUNTRY GRADES. ALL MANHOLE RIMS SHALL BE SET TO FINAL GRADE AFTER APPLICATION OF TRENCH PAVEMENT BINDER AND PRIOR TO FINISH LAYER OF PAVEMENT.
20. REPAIR ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
21. IN EXPOSED STREAM CROSSING AREA, EXCAVATE AND STORE EXISTING 6" TOP LAYER OF SOIL MATERIAL AND REPLACE AT END OF PROJECT TO RESTORE SITE TO ORIGINAL CONDITIONS.
22. UNSUITABLE FILL MAY BE ENCOUNTERED DURING SEWER TRENCH EXCAVATION. IF UNSUITABLE FILL IS ENCOUNTERED, IT SHALL BE REPLACED WITH SUITABLE FILL AFTER REVIEW AND APPROVAL BY ENGINEER.
23. CONTRACTOR SHALL CONDUCT WORK IN ACCORDANCE WITH ALL DEP AND NPS PERMITS. REFER TO SPECIFICATIONS.
24. IF LEDGE IS ENCOUNTERED, CONTRACTOR SHALL CONDUCT A PRE-BLAST SURVEY OF ALL BUILDINGS WITHIN 500 FEET OF BLAST AREA PRIOR TO BLASTING IN ACCORDANCE WITH SPECIFICATIONS.
25. OWNER REQUIRES TWO YEAR WARRANTY FOR ESTABLISHMENT OF GRASS ON LOAM AND SEED AREAS AND RESERVES THE RIGHT TO WITHHOLD ADDITIONAL RETAINAGE FOR TWO YEAR PERIOD TO COVER REPLANTING OF GRASSES.
26. ALL DISTURBED ASBESTOS CEMENT (AC) PIPING SHALL BE REMOVED FROM TRENCH AND SEGREGATED FROM GENERAL CONSTRUCTION FILL. DISPOSAL OF ALL AC PIPING IS REGULATED UNDER THE MAINE DEP CHAPTER 401 RULES. DISPOSAL OF ALL OTHER MATERIALS SHALL COMPLY WITH DEP DISPOSAL REQUIREMENTS.
27. ANY ISSUES RELATED TO THE SEWER INSTALLATION SHOWN ON THESE SHEETS SHALL BE RELAYED TO THE TOWN OF MOUNT DESERT'S ENGINEER, OLVER ASSOCIATES INC., AND NOT TO THE MDOT'S FIELD REPRESENTATIVE. MDOT IS NOT RESPONSIBLE FOR ANY FIELD ISSUES OR CHANGES RELATED TO THE SEWER RELOCATION WORK.

LEGEND



ABBREVIATIONS*

AB	ANCHOR BOLTS	EW	EACH WAY	LAT	LATERAL	REF	REFRIGERATOR
AC	ASBESTOS CEMENT	EXIST, EX	EXISTING	LAV	LAVATORY	REQ	REQUIRED
AFF	ABOVE FINISHED FLOOR	EXP	EXPANSION	LE	LAGOON EFFLUENT	RESIL	RESILIENT
ACGR	AGGREGATE	EXT	EXTERIOR	LF	LINEAR FEET	RET. WALL	RETAINING WALL
ALT	ALTERNATE	EXTEN	EXTENSION	LG	LONG OR LARGE	ROS	RIGID GALVANIZED STEEL
ALUM	ALUMINUM			L	LEFT OR LENGTH	R.O.	ROUGH OPENING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	Fb	BENDING STRESS	LKR	LOCKERS	RPM	REVOLUTIONS/MINUTE
APA	AMERICAN PLYWOOD ASSOCIATION	Fc	COMPRESSIVE STRESS	LLH	LONG LEG HORIZONTAL	RT	RIGHT
APPROX; ±	APPROXIMATELY	FT	TENSILE STRESS	LLV	LONG LEG VERTICAL	R/W	RIGHT OF WAY
AVG	AVERAGE	FCC	FIRE CODE	LOC	LOCATION	S	SLOPE OR SEWER
ARV	AIR RELIEF VALVE	FCD	FLOOR CLEANOUT	LP	LOW POINT OR LIQUID PROPANE	SAN	SANITARY
		FD	FLOOR CONTROL STRUCTURE	LR	LONG RADIUS	SDR	STANDARD DIMENSION RATIOS
BHE	BANGOR HYDRO ELECTRIC	FDN	FOUNDATION	LT	LEFT	SCH	SCHEDULE
BITUM	BITUMINOUS	FE	FIRE EXTINGUISHER	MANUF	MANUFACTURER	SCP	SURVEY CONTROL POINT
BL-B	BASELINE	FF;FIN FLR	FINISH FLOOR	MATL	MATERIAL	SCR	SCREENINGS
BUDG	BUILDING	FIN	FINISHED	MB	MACHINE BOLTS	SECT	SECTION
BOF	BOTTOM OF FOOTING	FIN GR	FINISH GRADE	MAX	MAXIMUM	SF	SQUARE FEET
BOT	BOTTOM	FLG	FLANGED	MC	MOISTURE CONTENT	SERV	SERVICE
BV	BACK VENT	FLR	FLOOR	MCC	MOTOR CONTROL CENTER	SHT	SHEET
		FLR'G	FLOORING	MECH	MECHANICAL	SHD	ROAD SHOULDER
C	CHANNEL	FM	FORCE MAIN	MFG	MANUFACTURER	SI	SPRAY IRRIGATION
C	CENTERLINE	FOS	FACE OF STUD	MN	MANHOLE	SICPE	SMOOTH INTERIOR CORRUGATED POLYETHYLENE
CB	CATCH BASIN	FR	FIRE RESISTANT	MHW	MEAN HIGH WATER	SPEC	SPECIAL
CFM	CUBIC FEET PER MINUTE	FRP	FIBERGLASS REINFORCED PLASTIC	MIL	1/1000 INCH	SPEC'S	SPECIFICATIONS
CI	CAST IRON	FT	FEET	MIN	MINIMUM	SP	SUMP PUMP
CJ	CONTROL JOINT			MJ	MECHANICAL JOINT	SQ	SQUARE
CL	CLEARING LIMITS OR CENTERLINE			MLSS	MIXED LIQUOR SUSPENDED SOLIDS	SR	SHORT RADIUS
CLG	CEILING	G	GAS LINE	MLW	MEAN LOW WATER	SWR	SHOWER
CLR	CLEAR	GA	GAUGE	MM	MILLIMETER	SS	STAINLESS STEEL
CL	CHLORINATION	GAL	GALLON	MON	MONUMENT	STA	STATION
CMP	CENTRAL MAINE POWER	GALV	GALVANIZED	MS	MAINE PUBLIC SERVICE	STD	STANDARD
CMP	CORRUGATED METAL PIPE	GDN	GARDEN	MSL	MEAN SEA LEVEL	STL	STEEL
CMU	CONCRETE MASONRY UNIT	GL	GLASS LINED	MTL	METAL	SUSP	SUSPENDED
CO	CLEANOUT	GPD	GALLONS PER DAY	MW	MONITORING WELL	SW	SIDEWALK OR SEAWATER
COL	COLUMN	GPH	GALLONS PER HOUR	N/F	NOW/FORMERLY	T	TELEPHONE OR THICKNESS
CONC.	CONCRETE	GPM	GALLONS PER MINUTE	NO	NUMBER	T & B	TOP AND BOTTOM
CONN	CONNECTION	GRAN	GRANITE	NPS	NATIONAL PARK SERVICE	T & G	TONGUE AND GROOVE
CONST	CONSTRUCTION	GRAY	GRAVEL	NR	NO REFUSAL	TBM	TEMPORARY BENCH MARK
CONT	CONTINUOUS	GRD	GROUND	NS	NEAR SIDE	TDH	TOTAL DYNAMIC HEAD
CPE	CORRUGATED POLYETHYLENE PIPE	GWB	GYPSPUM WALLBOARD	NTS	NOT TO SCALE	TEFC	FULLY ENCLOSED MOTOR
CS	CARBON STEEL	H	HEIGHT	NYNEX	NEW ENGLAND TELEPHONE (BELL ATLANTIC)	THR'OLD	THRESHOLD
CTS	COPPER TUBE SIZE	HB	HOSE BIBB			TOP	TOP OF PLATE
CU	COPPER	HC	HOSE CLEANOUT			TYP	TYPICAL
CULV	CULVERT	HDW	HOLLOW METAL			UG	UNDERGROUND
		HORIZ	HORIZONTAL	OC	ON CENTER	URN	URINAL
D	DRAIN OR DIAMETER	HP	HOLLOW METAL	OH	OVERHEAD	UST	UNDERGROUND STORAGE TANK
DBC	DIRECT BURIAL CABLE	HPC	HORIZONTAL CURVE	OPER	OPERATOR	V	VENT
DEP	DEPT OF ENVIRONMENTAL PROTECTION	HPI	HORIZONTAL CURVE TANGENT INTERSECTION	OR	ORANGEBURG PIPE	VAR	VARIABLE
DI	DUCTILE IRON	HPT	HORIZONTAL CURVE	OV	OUTSIDE DIAMETER	VB	VAPOR BARRIER OR VACUUM BREAKER
DIAG	DIAGONAL	HT	HEIGHT	OPER	OPERATOR	VC	VITRIFIED GLAY
DIM	DIMENSIONS	HT	HEIGHT	OR	ORANGEBURG PIPE	VER	VERTICAL
DIN	GERMAN INSTITUTE FOR STANDARDIZATION	HYD	HYDRANT	PE	POLYETHYLENE OR PLAIN END	VFD	VARIABLE FREQUENCY DRIVE
DCW	DOMESTIC COLD WATER	HZ	HERTZ	PERF	PERFORATED	VPC	VERTICAL CURVE
DHW	DOMESTIC HOT WATER	ID	INSIDE DIAMETER	PI	PURGE DIFFUSER	VPI	VERTICAL CURVE TANGENT INTERSECTION
DN	DOWN	IJ	ISOLATION JOINT	PL	PROPERTY IRON	VPT	VERTICAL CURVE TANGENT INTERSECTION
DRN	DRAIN	IN	INCHES	PLYWD	PLYWOOD	VTR	VENT THROUGH ROOF
DW	DOMESTIC WATER OR DRIVEWAY	INFL	INFLUENT	POTW	PUBLICLY OWNED TREATMENT WORKS	W	WATER OR WIDTH
DWV	DRAIN, WASTE, AND VENT	INSUL	INSULATION	PROP	PROPOSED	W/	WITH
		INT	INTERIOR	PSF	POUNDS PER SQUARE FOOT	WAS	WASTE ACTIVATED SLUDGE
E	MODULUS OF ELASTICITY OR ELECTRIC	INV	INVERT	PSI	POUNDS PER SQUARE INCH	WC	WATER CLOSET
EA	EACH	IPU	INPUT/OUTPUT	PST	PRESSURE TREATED	WCO	WALL CLEANOUT
EE	EACH END	IRN	IRON PIPE	PTD	PAINTED	WD	WOOD
EF	EACH FACE	IS	JANITOR SINK	PVC	POLYVINYL CHLORIDE	WF	WIDE FLANGE
EJH	EXTREME HIGH WATER	JB	JUNCTION BOX	QPK	PEAK FLOW	WH	WATER HEATER
EL	ELEVATION	KD	KILN DRIED	R	RADIUS OR RIGHT	WLD	WELDED
ELEV	ELEVATION			RAN	RANGE	WR	WATER RESISTANT
ELEC COND	ELECTRICAL CONDUIT			RAS	RETURN ACTIVATED SLUDGE	WS	WATER SURFACE
ELW	EXTREME LOW WATER			RCP	REINFORCED CONCRETE ELLIPTICAL PIPE	WSTRIPPING	WEATHER STRIPPING
EMEC	EASTERN MAINE ELECTRICAL CO-OP INC.			REIN	REINFORCED CONCRETE PIPE	WW	WET WELL
EMH	ELECTRIC MANHOLE			RED	REDUCING	WVF	WELDED WIRE FABRIC
EQUIP	EQUIPMENT					WWM	WELDED WIRE MESH
EST	ESTIMATED						

* THESE ARE GENERAL ABBREVIATIONS.
NOT ALL APPEAR ON THESE DRAWINGS.

INDEX

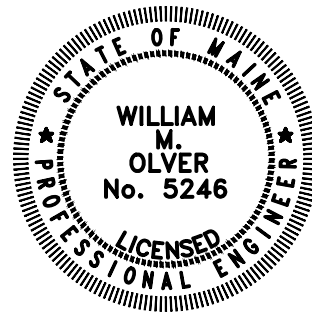
GENERAL

G-1 GENERAL NOTES AND INDEX

CIVIL

C-1 SANITARY SEWER PLAN & PROFILE

C-2 CIVIL DETAILS



OLVER ASSOCIATES INC.
ENVIRONMENTAL ENGINEERS
220 MAIN STREET WINTERPORT, MAINE

DATE ADDITION OR REVISION

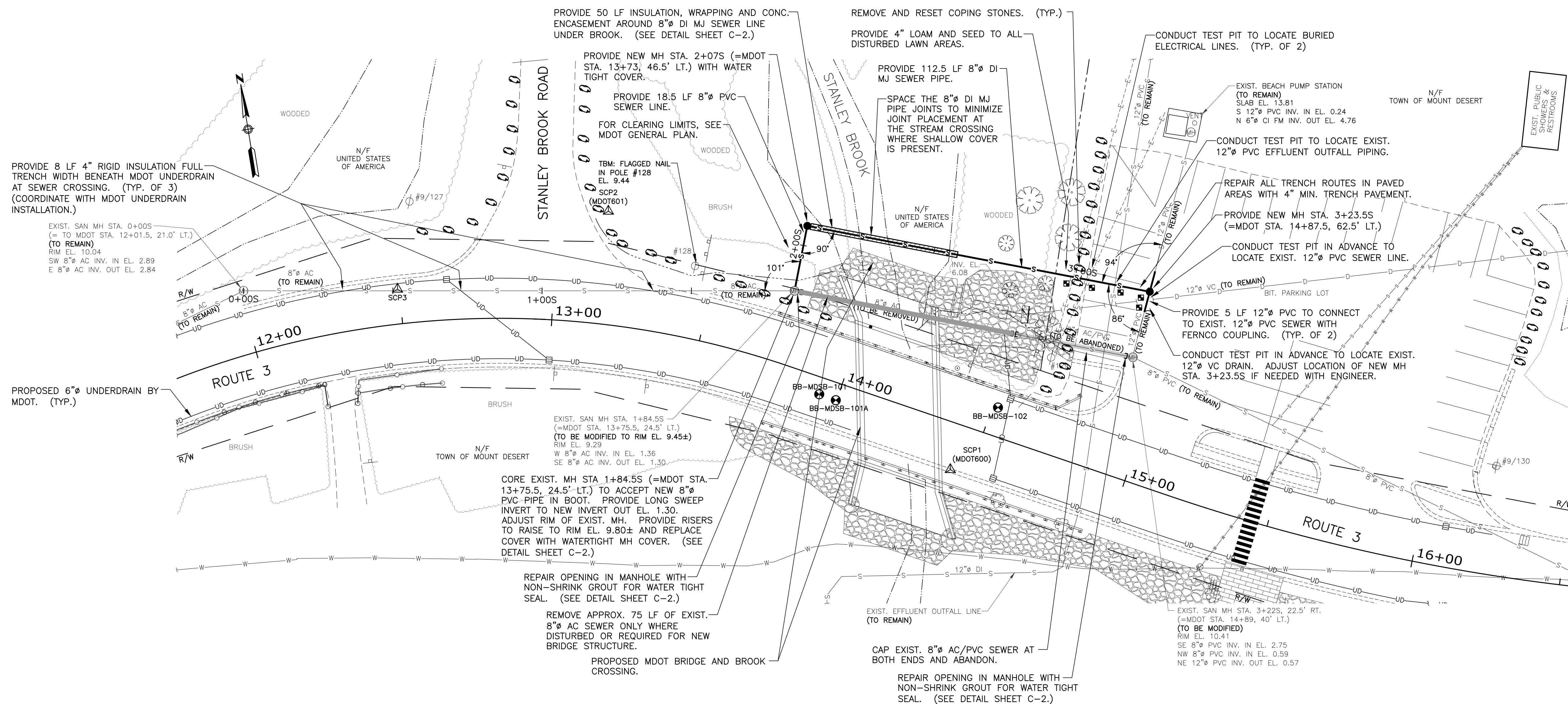
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TOWN OF MOUNT DESERT, MAINE

STANLEY BROOK BRIDGE - SANITARY SEWER
RELOCATION

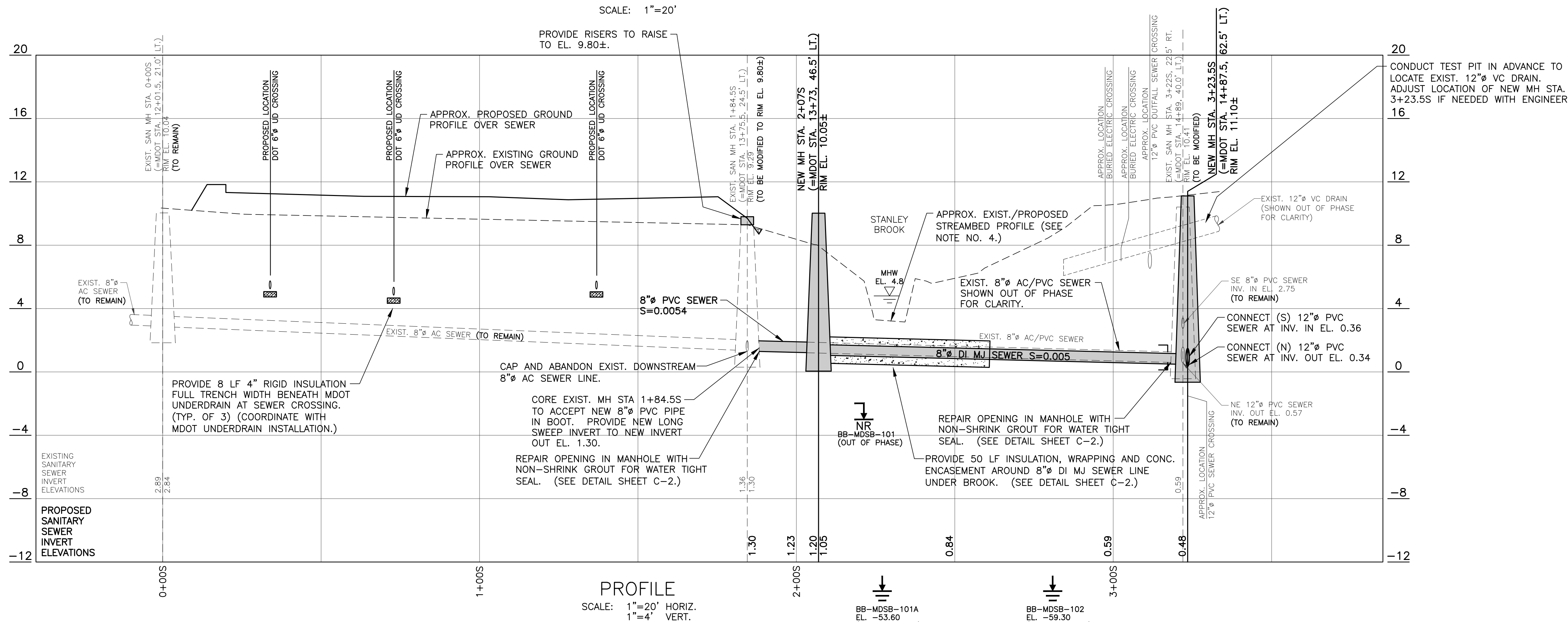
GENERAL NOTES
AND INDEX

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DATE: FEBRUARY, 2011 SHEET: G-1

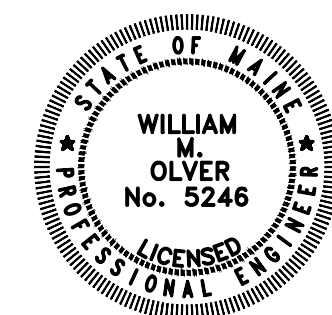


PLAN

SCALE: 1"=20'

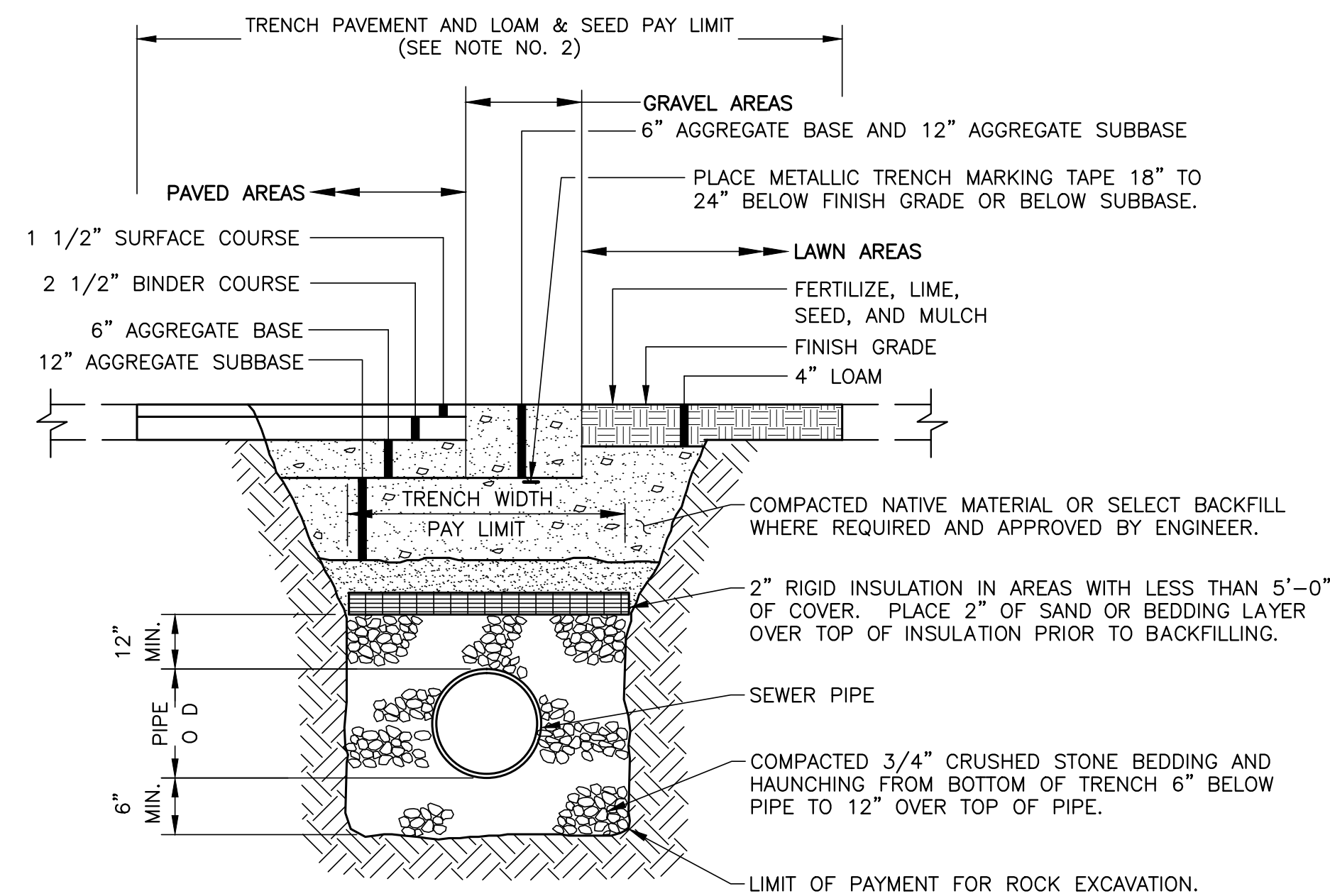


- NOTES:**
- 1) UTILITY AND TIDAL INFORMATION ON THIS SHEET PROVIDED IN PART BY STATE OF MAINE DEPARTMENT OF TRANSPORTATION, "MOUNT DESERT STANLEY BROOK BRIDGE OVER STANLEY BROOK, STATE ROUTE 3" PLANS, PROJECT NO. 16718.00
 - 2) UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY WITH TEST PITS PRIOR TO CONSTRUCTION.
 - 3) NO TREES OR LANDSCAPING ALONG SEWER ROUTE SHALL BE TRIMMED OR REMOVED WITHOUT PRIOR PERMISSION OF THE ENGINEER.
 - 4) IN EXPOSED STREAM CROSSING AREA, EXCAVATE AND STORE EXISTING 6" TOP LAYER OF SOIL MATERIAL AND REPLACE AT END OF PROJECT TO RESTORE SITE TO ORIGINAL CONDITIONS.
 - 5) LEDGE INFORMATION SHOWN IS PROVIDED BY THE STATE OF MAINE DEPARTMENT OF TRANSPORTATION.



OLVER ASSOCIATES INC.
ENVIRONMENTAL ENGINEERS
290 MAIN STREET WINTERPORT, MAINE

DATE		ADDITION OR REVISION	
DES. BY: JRE	DR. BY: RMR/AWL	CK. BY: WMO	
TOWN OF MOUNT DESERT, MAINE			
STANLEY BROOK BRIDGE — SANITARY SEWER RELOCATION			
SANITARY SEWER PLAN & PROFILE			
SCALE: AS NOTED		PROJECT NO.: 1500	
DATE: FEBRUARY, 2011		SHEET: C-1	

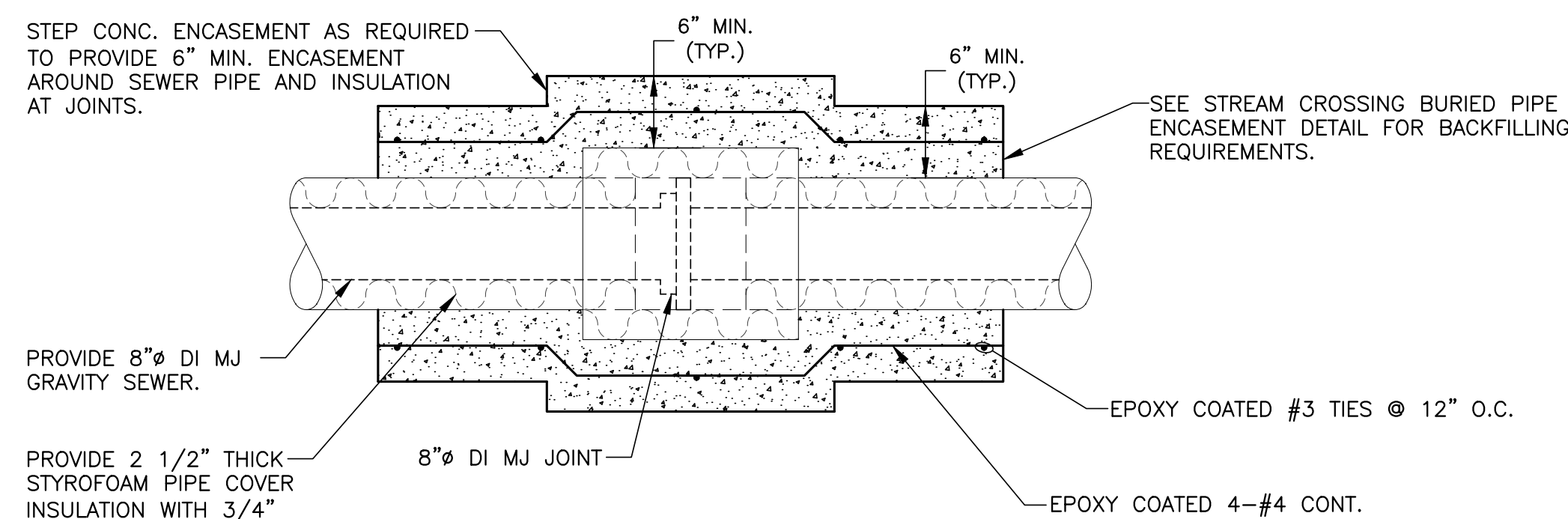


TYPICAL SEWER TRENCH DETAIL

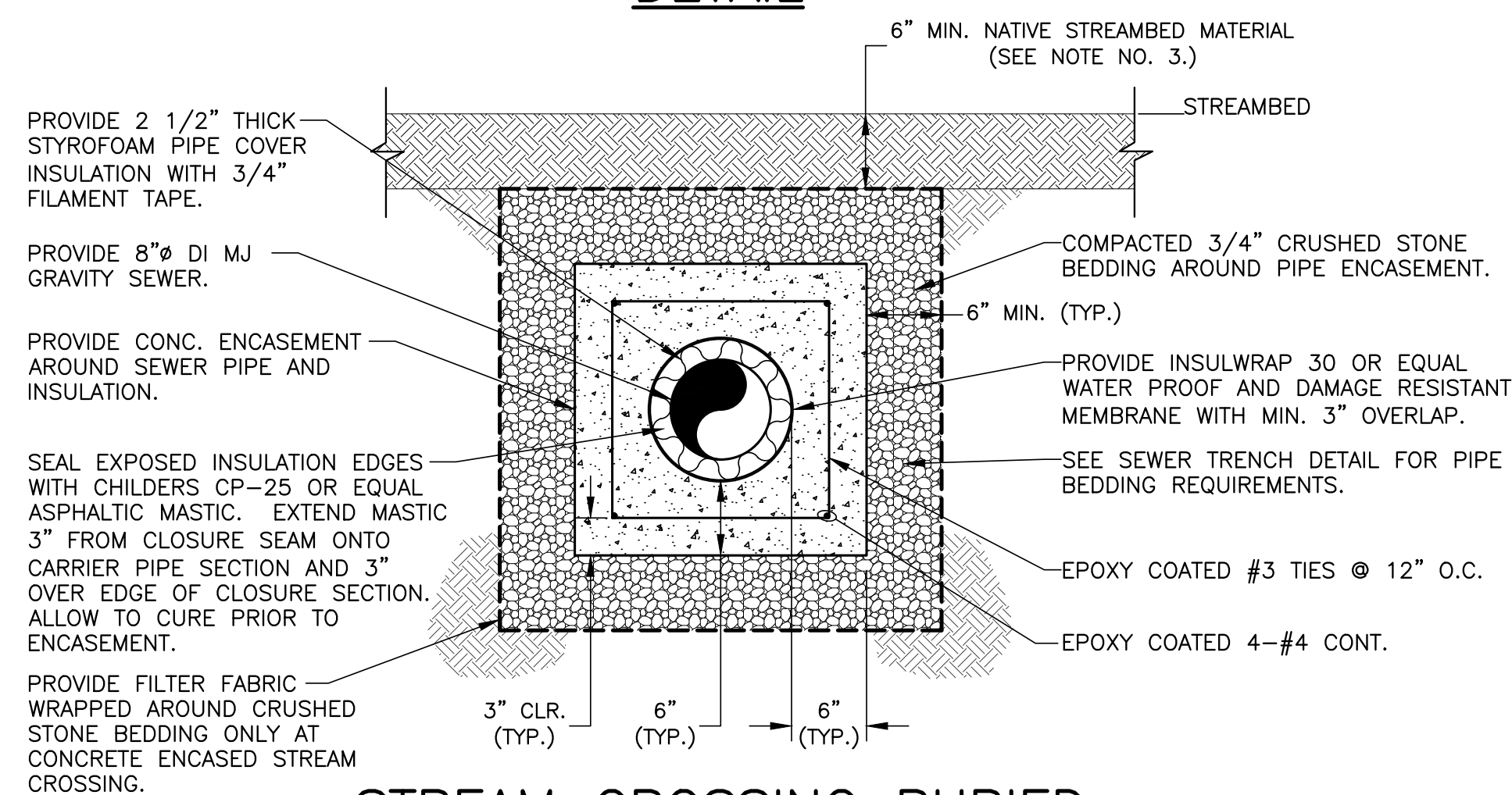
TRENCH WIDTHS/PAY LIMIT	
PIPE SIZE	MAX
15" OR LESS	4'-0"
MANHOLES	OD + 4'-0"

NOTES:

- 1) MAINTAIN UNIFORM TRENCH WIDTH TO 12" OVER PIPE.
- 2) TRENCH PAVEMENT, LOAM, AND SEED PAY LIMIT ARE TRENCH WIDTH PLUS 2'-0". IF UNSUITABLE MATERIAL IS ENCOUNTERED BELOW TRENCH BEDDING, PAY LIMIT IS TRENCH WIDTH TO DEPTH AS DETERMINED BY ENGINEER.



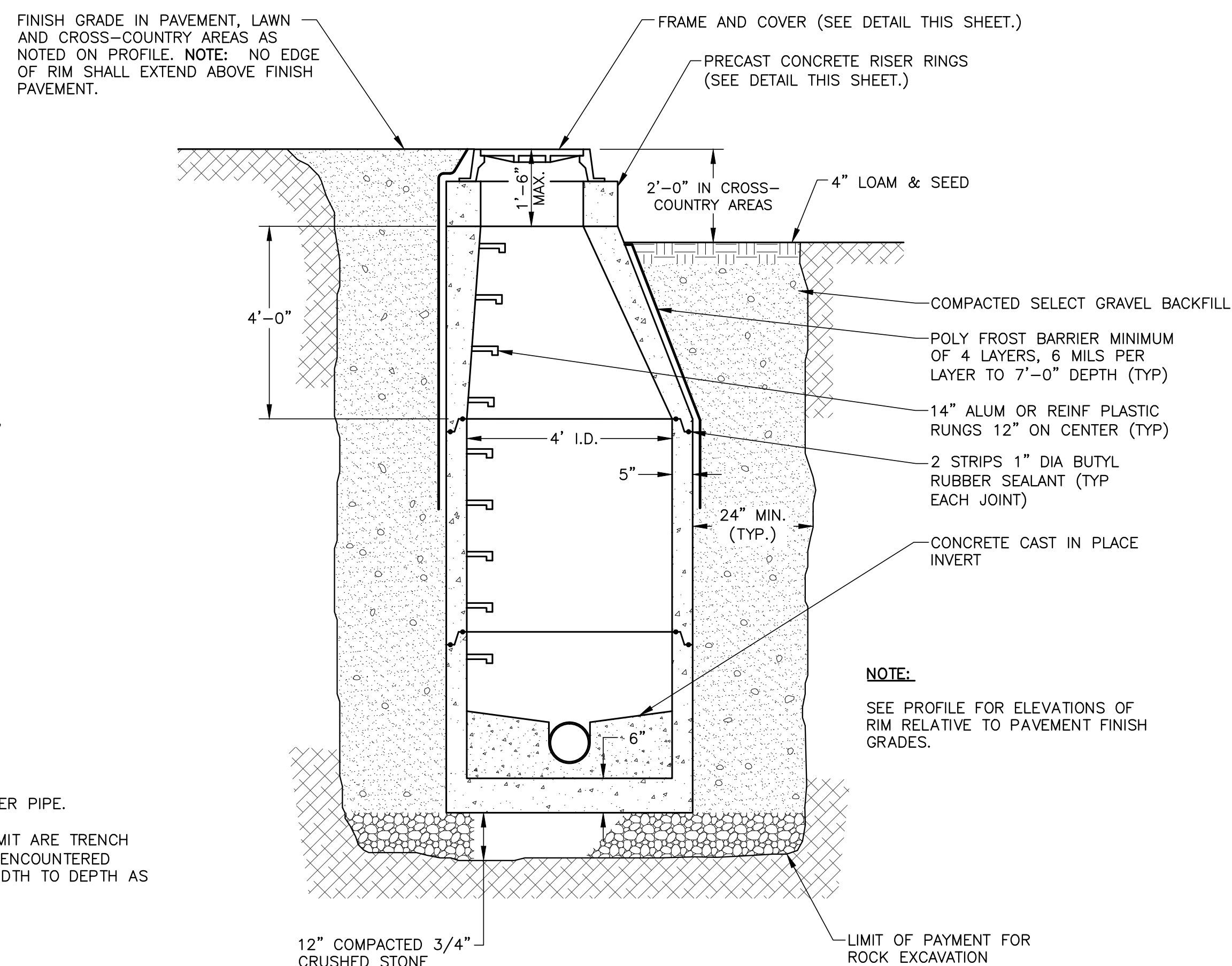
STREAM CROSSING BURIED
PIPE JOINT ENCASEMENT
DETAIL



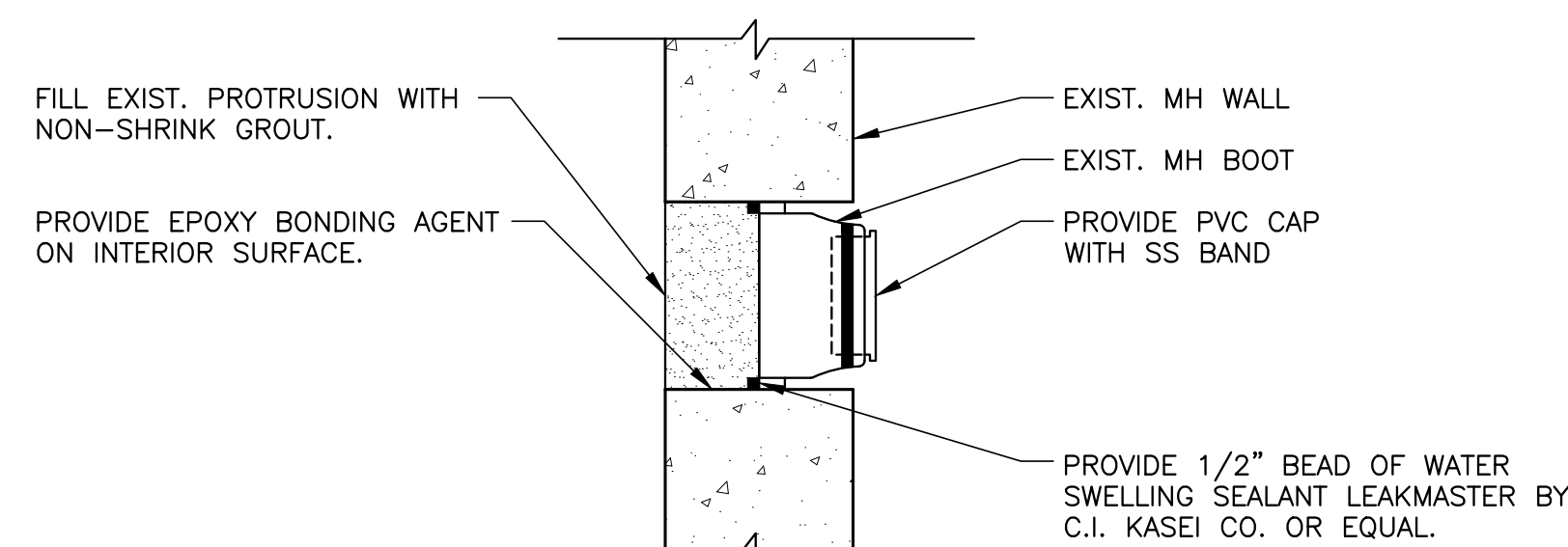
STREAM CROSSING BURIED
PIPE ENCASEMENT DETAIL

NOTES:

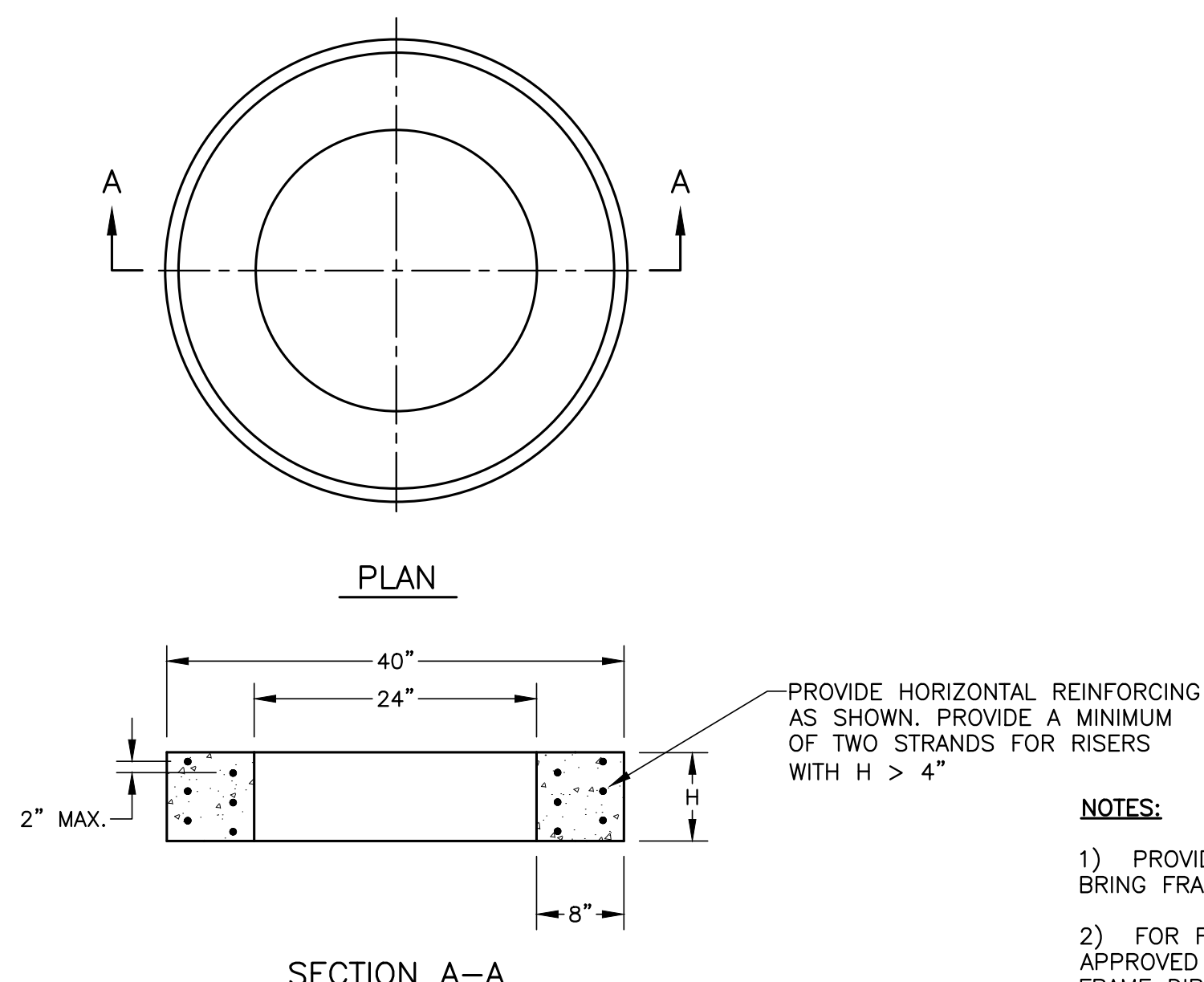
- 1) CONTRACTOR SHALL STRICTLY ADHERE TO EROSION CONTROL AND SILT FENCE REQUIREMENTS DURING ALL WORK IN VICINITY OF STREAM.
- 2) STREAM CROSSING IS SUBJECT TO TIDAL SALT WATER EXPOSURE. PROVIDE REBAR WITH EPOXY COATING AND CONCRETE RATED FOR SALT WATER. (SEE SPECIFICATIONS.)
- 3) IN EXPOSED STREAM CROSSING AREA, EXCAVATE AND STORE EXISTING 6" TOP LAYER OF SOIL MATERIAL AND REPLACE AT END OF PROJECT TO RESTORE SITE TO ORIGINAL CONDITIONS.
- 4) FOR TRENCH WIDTH PAY LIMITS, SEE TYPICAL SEWER TRENCH DETAIL.



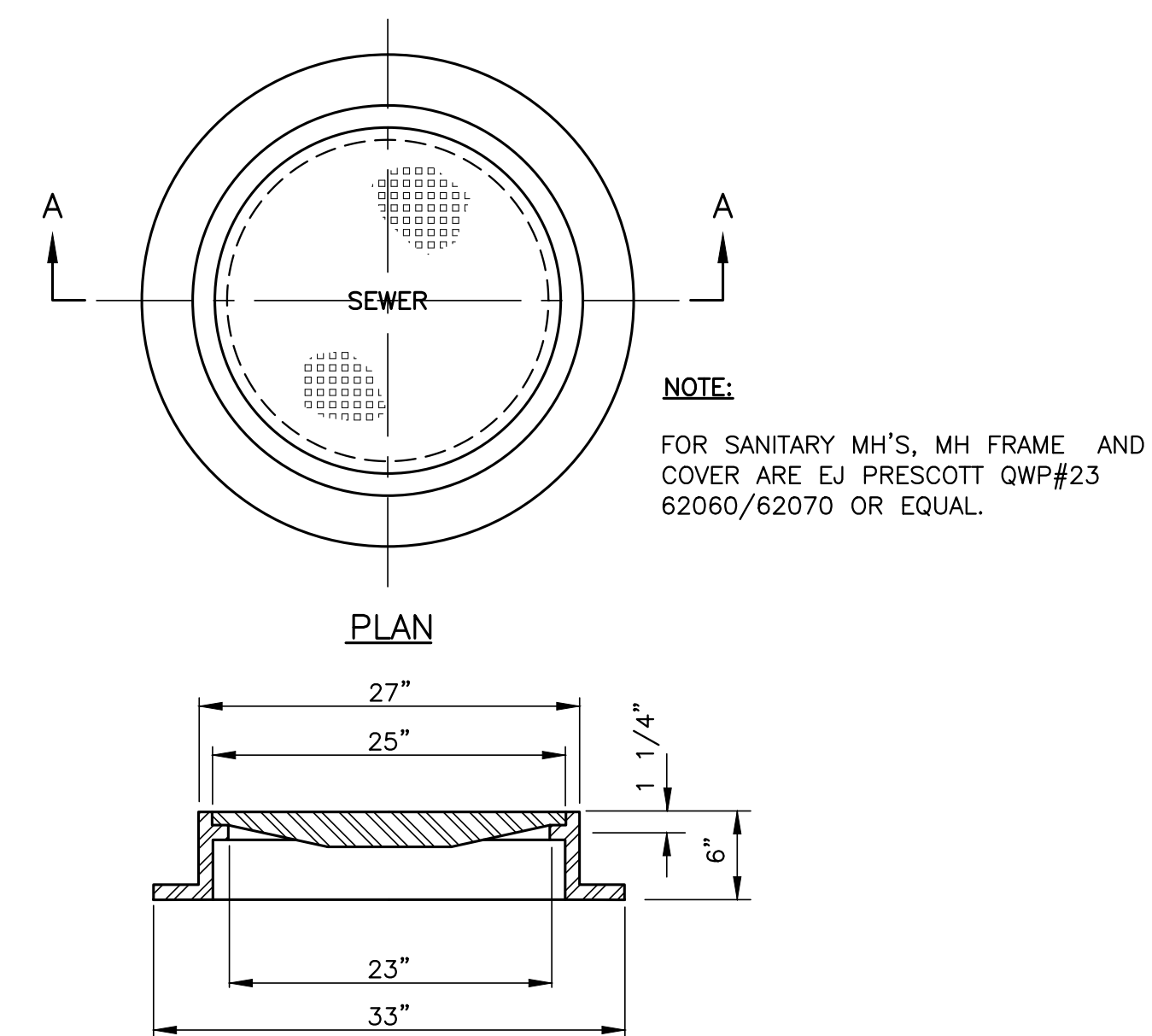
PRECAST MANHOLE DETAIL



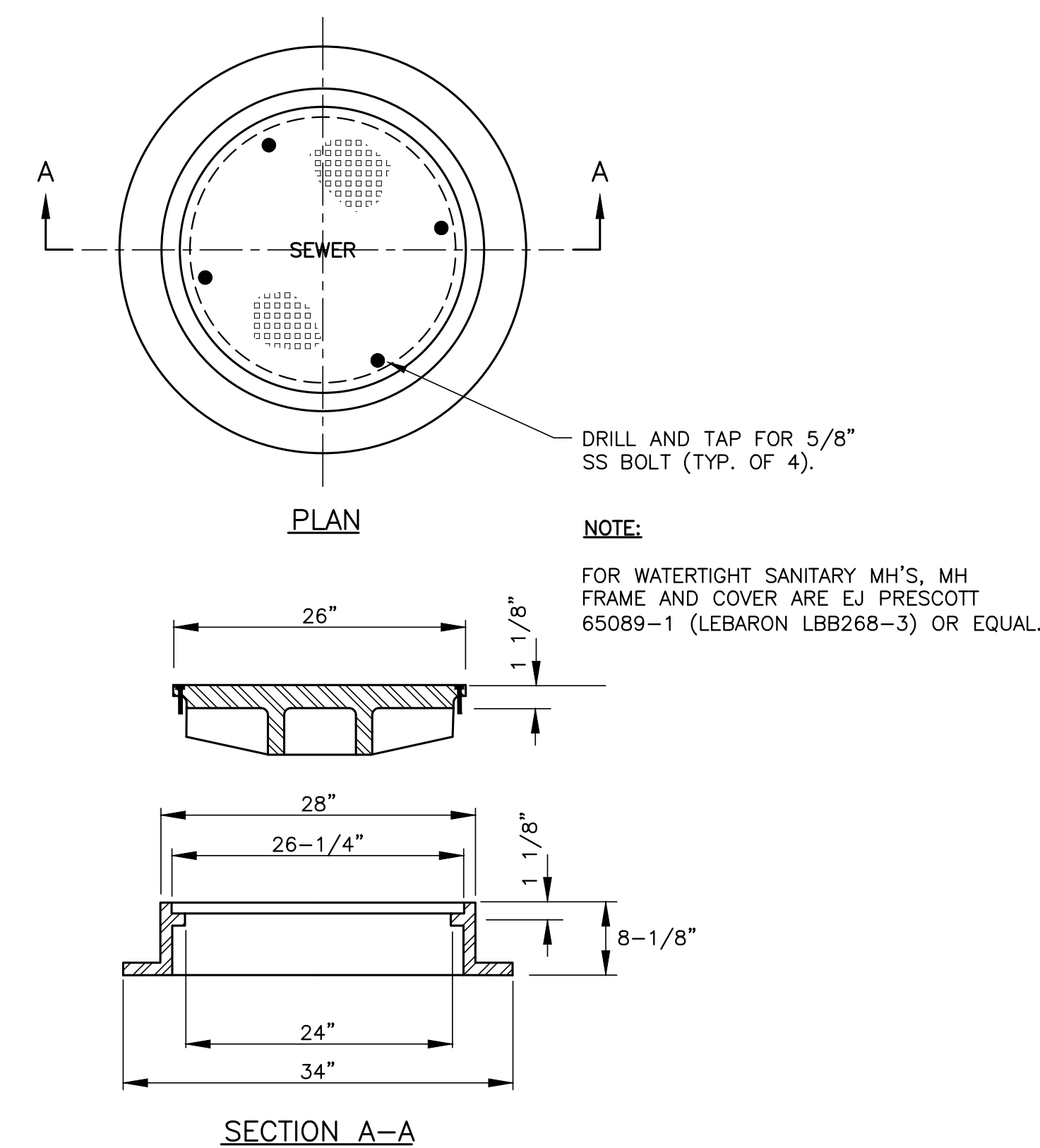
EXISTING MH REPAIR DETAIL



PRECAST CONCRETE GRADE RINGS DETAIL



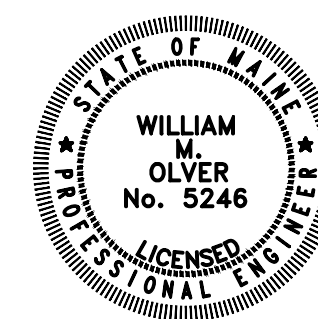
MANHOLE FRAME AND COVER DETAIL



WATERTIGHT MANHOLE FRAME AND COVER DETAIL

OLVER ASSOCIATES INC.
ENVIRONMENTAL ENGINEERS
290 MAIN STREET WINTERPORT, MAINE

DATE	ADDITION OR REVISION		
DES.BY: JRE DR.BY: RMR CK.BY: WMO			
TOWN OF MOUNT DESERT, MAINE			
STANLEY BROOK BRIDGE — SANITARY SEWER RELOCATION			
CIVIL DETAILS			
SCALE: NONE		PROJECT NO.: 1500	
DATE: FEBRUARY, 2011		SHEET: C-2	



NOTES:

- 1) PROVIDE H. OF 4" MIN. TO 9" MAX. AS REQUIRED TO BRING FRAME TO FINAL GRADE.
- 2) FOR FRAME ADJUSTMENTS OF LESS THAN 4" USE APPROVED ALTERNATE STRUCTURE FRAME AND/OR ATTACH FRAME DIRECTLY TO PRECAST STRUCTURE CONE.
- 3) DO NOT MAKE FINAL ADJUSTMENT OF RIM ELEVATION UNTIL AFTER BINDER PAVEMENT COURSE HAS BEEN PLACED.
- 4) SET RIM ELEVATION 0.05' BELOW FINAL SURFACE COURSE ELEVATION UNLESS OTHERWISE INDICATED.