



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0016

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

June 7, 2010
Subject: **Embden**
State Pin No: 016699.00
Amendment No. 4

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 4 thru 8), **REMOVE** the "SCHEDULE OF ITEMS", 5 pages dated 100514 (replaced in amendment #1) and **REPLACE** with the attached new "SCHEDULE OF ITEMS", 5 pages dated 100607.

In the Bid Book, after page 41, **ADD** the attached "SPECIAL PROVISION, 203.33 Special Fill, (In-Culvert Fill – Work), 1 page dated June 3, 2010.

In the Bid Book, after page 80, **ADD** the attached "SPECIAL PROVISION, SECTION 652, MAINTENANCE OF TRAFFIC, (Work Zone Traffic Control)", 1 page dated June 7, 2010.

In the Plans, **REMOVE** the below listed Plan Sheets and **REPLACE** with the attached new Plan Sheets:

SHEET NUMBER 2 OF 22
SHEET NUMBER 3 OF 22
SHEET NUMBER 10 OF 22
SHEET NUMBER 11 OF 22
SHEET NUMBER 12 OF 22
SHEET NUMBER 20 OF 22

NOTE: Individuals who purchased plans will be FedExed replacement plan sheets in the size and quantity ordered.

Consider these changes and information prior to submitting your bid on **June 9, 2010**.

Sincerely,

Fol Scott Bickford
Contracts & Specifications Engineer



PRINTED ON RECYCLED PAPER

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 016699.00

PROJECT(S): 016699.00

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS

SECTION 0001 PROJECT ITEMS

0010	202.19 REMOVING EXISTING BRIDGE	LUMP		LUMP			
0020	203.20 COMMON EXCAVATION	CY	3090.000				
0030	203.2318 DISPOSAL OF SPECIAL WASTE	T	170.000				
0040	203.24 COMMON BORROW	CY	5.000				
0050	203.25 GRANULAR BORROW	CY	650.000				
0060	203.33 SPECIAL FILL	CY	65.000				
0070	206.061 STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	CY	570.000				
0080	206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	CY	10.000				
0090	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	CY	1890.000				
0100	403.207 HOT MIX ASPHALT 19.0 MM HMA	T	630.000				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 016699.00

PROJECT(S): 016699.00

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	315.000 T				
0120	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	5.000 T				
0130	403.213 HOT MIX ASPHALT 12.5 MM BASE	315.000 T				
0140	409.15 BITUMINOUS TACK COAT - APPLIED	225.000 G				
0150	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0160	511.07 COFFERDAM:	LUMP	LUMP			
0170	526.30 TEMPORARY CONCRETE BARRIER - TYPE 1	60.000 LF				
0180	534.7101 PRECAST CONCRETE BOX CULVERT - STATE SUPPLIED	LUMP	LUMP			
0190	603.2351 48 INCH REINFORCED CONCRETE PIPE CLASS IV	224.000 LF				
0200	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	600.000 LF				
0210	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8.000 EA				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 016699.00

PROJECT(S): 016699.00

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0220	606.369 GUARDRAIL REMOVED AND STACKED	200.000 LF				
0230	606.79 GUARDRAIL 350 FLARED TERMINAL	4.000 EA				
0240	610.08 PLAIN RIPRAP	375.000 CY				
0250	610.16 HEAVY RIPRAP	40.000 CY				
0260	610.18 STONE DITCH PROTECTION	100.000 CY				
0270	613.319 EROSION CONTROL BLANKET	205.000 SY				
0280	615.07 LOAM	6.000 CY				
0290	618.1301 SEEDING METHOD NUMBER 1 - PLAN QUANTITY	1.000 UN				
0300	619.1401 EROSION CONTROL MIX	170.000 CY				
0310	620.58 EROSION CONTROL GEOTEXTILE	580.000 SY				
0320	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	2100.000 LF				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 016699.00

PROJECT(S): 016699.00

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0330	629.05 HAND LABOR, STRAIGHT TIME	10.000 HR				
0340	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20.000 HR				
0350	631.13 BULLDOZER (INCLUDING OPERATOR)	20.000 HR				
0360	631.14 GRADER (INCLUDING OPERATOR)	20.000 HR				
0370	631.15 ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	20.000 HR				
0380	631.16 ROLLER, PAVEMENT (INCLUDING OPERATOR)	20.000 HR				
0390	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	20.000 HR				
0400	639.18 FIELD OFFICE TYPE A	1.000 EA				
0410	652.312 TYPE III BARRICADE	6.000 EA				
0420	652.33 DRUM	12.000 EA				
0430	652.34 CONE	24.000 EA				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 016699.00

PROJECT(S): 016699.00

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0440	652.35 CONSTRUCTION SIGNS	607.000 SF				
0450	652.38 FLAGGER	100.000 HR				
0460	652.39 WORK ZONE TRAFFIC CONTROL	LUMP	LUMP			
0470	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0480	659.10 MOBILIZATION	LUMP	LUMP			
	SECTION 0001 TOTAL					
	TOTAL BID					

SPECIAL PROVISION
203.33 Special Fill
(In-Culvert Fill - Work)

Description

This work shall consist of placing site excavated dredge materials and/or granular underwater borrow and large boulders as needed inside the culvert to create a natural stream bottom as shown on the contract plans and described herein or as directed by the Resident.

Construction

Once the culvert is placed to final grade, the bottom course of in-culvert fill shall be placed in one foot lifts to an elevation as shown on plans or as directed by the Resident. The in culvert fill shall be constructed of site-excavated dredge materials and if needed underwater Granular Borrow meeting Underwater Backfill subsection 703.19 requirements. A minimum of four (4) large stones with a minimum dimension of 24 inches shall be place between the heavy riprap mud sills. Compaction of the Bottom Course is not necessary.

The contractor shall be careful not the damage the culvert during installation of the in-culvert fill material. Any damage to the culvert shall be paid for by the Contractor.

Method of Measurement

Payment for placing Dredge materials, Granular Borrow and large boulders shall be measured in place by the cubic yard.

Basis of Payment

All work associated with placing the Dredge materials, Granular Borrow and boulders to form the In-culvert streambed shall be paid for at the contract unit price per cubic yard.

Installation of the heavy riprap mud sills shall be paid fro under item 610.16 Heavy Riprap.

Payments will be made under:

Pay Item

Pay Unit

203.33 Special Fill

Cubic yard

SPECIAL PROVISION
SECTION 652
MAINTENANCE OF TRAFFIC
(Work Zone Traffic Control)

652.7 Method of Measurement This entire Subsection is revised to read:

Work Zone Traffic Control, including the Contractor's Traffic Control Plan, Traffic Control Supervisor, furnishing, installation and maintenance of traffic control devices, will be measured as one lump sum for all work authorized and performed.

652.8 Basis of Payment This entire Subsection is revised to read:

Work Zone Traffic Control will be paid for at the contract lump sum price. Payment will be full compensation for the Traffic Control Plan, Traffic Control Supervisor, channelization devices including removing and resetting channelization devices (including striping, pavement markings and pavement markers) and maintenance thereof, all work associated with road opening and road closing, and maintaining abutter access. Maintenance of signs includes: replacing devices damaged, lost, or stolen; and cleaning and moving as many times as necessary throughout the life of the contract, regardless whether the work areas are geographically separated or not separated.

The following related work will be paid for under their respective contract bid items:

1. Flaggers
2. Construction signs (furnishing and installation)
3. Permanent Pavement Markings
4. Temporary Concrete Barrier
5. Type III Barricades
6. Drums
7. Cones

There will be no payment made under the pay items in Section 652 – maintenance of Traffic, for devices furnished or maintenance work required after the expiration of the adjusted total contract time.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
652.39 Work Zone Traffic Control	Lump Sum

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.19	REMOVING EXISTING BRIDGE	1	LS
203.20	COMMON EXCAVATION	3090	CY
203.2318	DISPOSAL OF SPECIAL WASTE	170	CY
203.24	COMMON BORROW	5	CY
203.25	GRANULAR BORROW	650	CY
203.33	SPECIAL FILL	65	CY
206.061	STRUCT EARTH EXC. - DRAINAGE AND MNR STRUCT. BELOW GRADE	570	CY
206.07	STRUCT ROCK EXC. - DRAINAGE AND MNR STRUCT.	10	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1890	CY
403.207	HOT MIX ASPHALT 19.0 MM HMA	630	T
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	315	T
403.209	HOT MIX ASPHALT 9.5 MM HMA (SIDEWALKS, DRIVES, INCIDENTALS)	5	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	315	T
409.15	BITUMINOUS TACK COAT - APPLIED	225	G
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (200 SY)	1	LS
511.07	COFFERDAM: Upstream	1	LS
511.07	COFFERDAM: Downstream	1	LS
526.30	TEMPORARY CONCRETE BARRIER - TYPE I	60	LF
534.7101	PRECAST CONCRETE BOX CULVERT - STATE SUPPLIED (230 CY)	1	LS
603.2351	REINFORCED CONCRETE PIPE - CLASS IV	224	LF
606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	600	LF
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.369	GUARDRAIL REMOVED AND STACKED	200	LF
606.79	GUARDRAIL 350 FLARED TERMINAL	4	EA
610.08	PLAIN RIPRAP	375	CY
610.16	HEAVY RIPRAP	40	CY
610.18	STONE DITCH PROTECTION	100	CY
613.319	EROSION CONTROL BLANKET	205	SY
615.07	LOAM	6	CY
618.1301	SEEDING METHOD NUMBER 1 - PLAN QUANTITY	1	UN
619.1401	EROSION CONTROL MIX	170	CY
620.58	EROSION CONTROL GEOTEXTILE	580	SY
627.733	4 INCH WHITE OR YELLOW PAINTED PAVE MKR LINE	2100	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20	HR
631.13	BULLDOZER (INCLUDING OPERATOR)	20	HR
631.14	GRADER (INCLUDING OPERATOR)	20	HR
631.15	ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	20	HR
631.16	ROLLER, PAVEMENT (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
639.18	FIELD OFFICE TYPE A	1	EA
652.3102	TYPE III BARRICADE	6	EA
652.33	DRUM	12	EA
652.34	CONE	24	EA
652.35	CONSTRUCTION SIGNS	607	SF
652.38	FLAGGER	100	HR
652.39	WORK ZONE TRAFFIC CONTROL	1	LS
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

- During construction, the road will be closed to traffic for a time period specified in the Special Provisions.
- For easements, construction limits and right of way lines, refer to Right of Way Map.
- 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.
- All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
- Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
- 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.
- All embankment material, except as otherwise shown, placed below EL. 295.0 shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.
- Place riprap on sideslopes up to EL. 298.0.
- Place loam 2 inches deep and Seeding Method No. 1 on all new or reconstructed sideslopes from Sta. 11+00 Rf. to Sta. 13+00 Rf. or as directed by the Resident.
- Place Erosion Control Mix on all new or reconstructed sideslopes from Sta. 6+00 Lt. to Sta. 13+00 Lt. and Sta. 8+00 Rf. to Sta. 11+00 Rf. or as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.1401, Erosion Control Mix.
- Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.
- An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
- 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.
- 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>.
- 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.
- 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.
- The project geotechnical report titled: Moore Bridge, Routes 8/16/201A Over Jackin Brook, Embden, Maine dated April 12, 2010 may be accessed at the MaineDOT web address.
- 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.
- 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 Contractor 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:
 - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - 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.

- Bench existing fill slope soils in accordance with MaineDOT Standard Specification 203.09, Preparation of Embankment Area, where new fill slope extensions are constructed over existing slopes with grades greater than 2:1 (H:V).
- Riprap adjacent to the box culvert shall be placed so as not to damage the culvert. Any damage to the box culvert during construction shall be repaired or replaced as determined by the Resident at the Contractor's expense.
- The Contractor shall construct the culvert in the dry.
- To identify weak zones and densify the box culvert subgrade, the Contractor shall compact the excavated subgrade with a minimum of 4 passes with a vibratory compactor that has a minimum static weight of 500 lbs. The Contractor shall remove and replace weak or unsuitable soils found at the subgrade level with compacted Granular Borrow.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	EMBDEN SOMERSET COUNTY MOORE BRIDGE JACKIN BROOK	ESTIMATED QUANTITIES AND GENERAL CONSTRUCTION NOTES	SHEET NUMBER 2	OF 22
BRIDGE NO. 2579 PIN 16699.00	DATE 6/4/2010	P.E. NUMBER **		
SIGNATURE	M. WIGHT 10pm North DEC 2009	DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED/DESIGNED	REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	

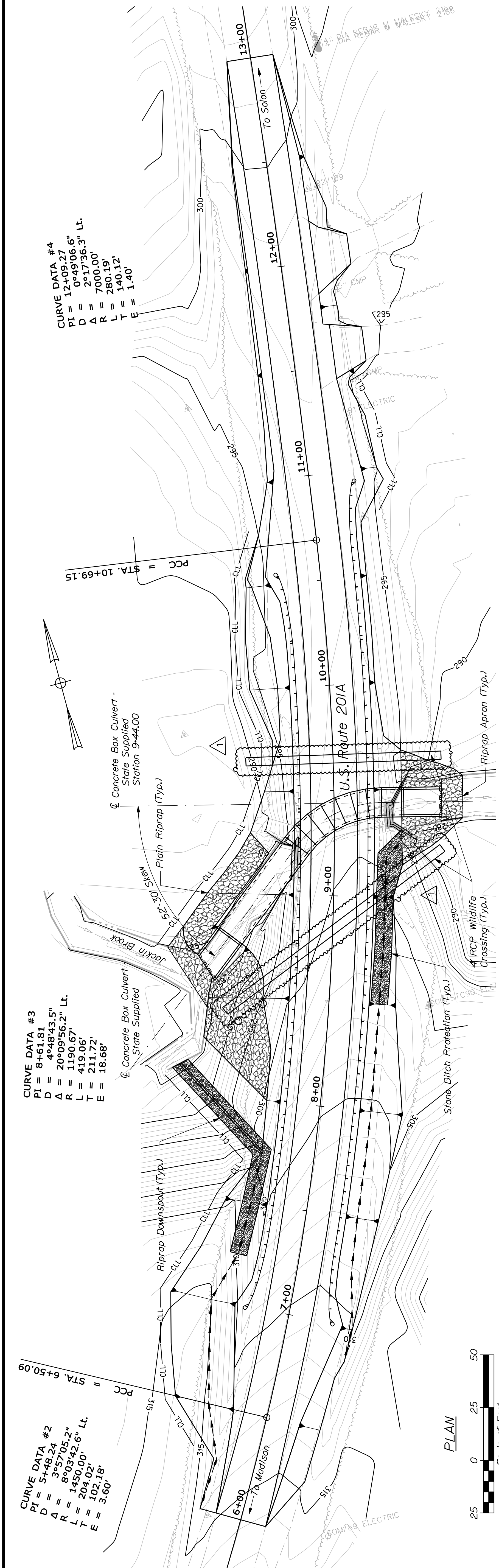
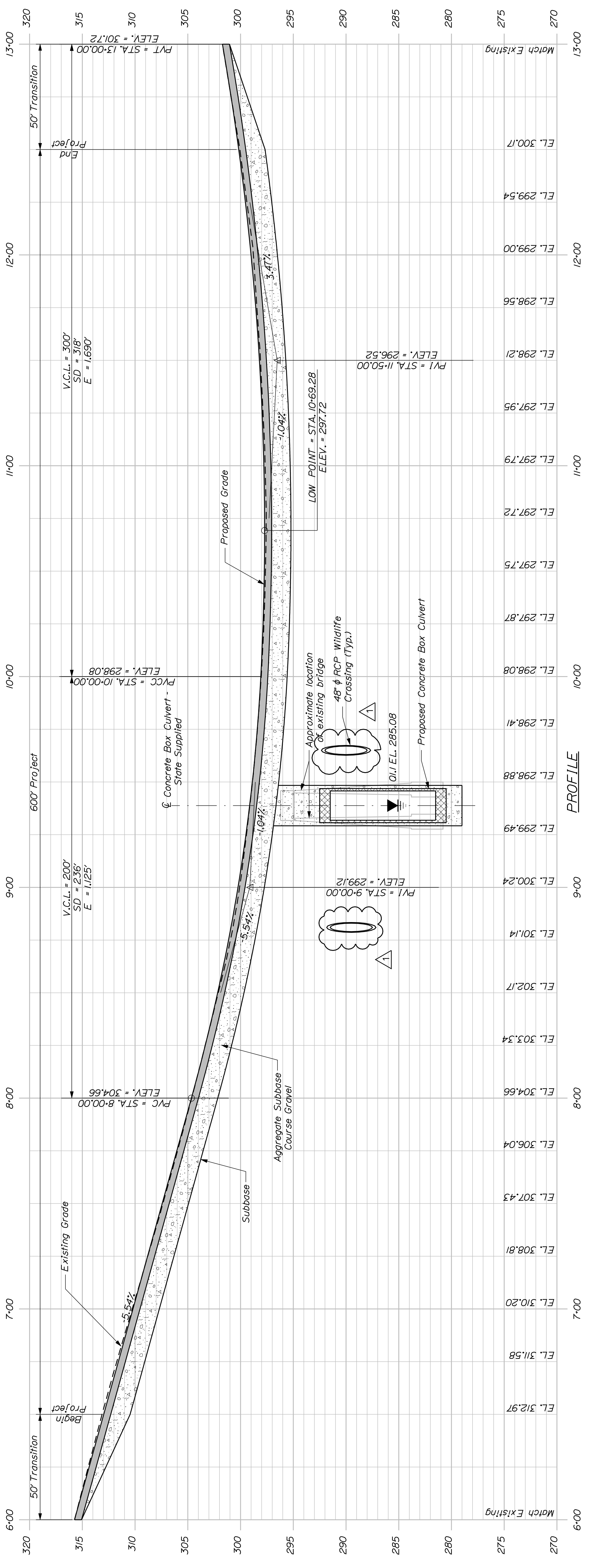
EMBDEN
SOMERSET COUNTY
MOORE BRIDGE
JACKIN BROOK

GENERAL PLAN & PROFILE

PROJ. MANAGER	S. BODGE	BY	DATE
DESIGN-DETAILD	M. WIGHT	TEAM	NOV 10 DEC 2009
CHECKED-REVIEWED			
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE	DATE
P.E. NUMBER	6/4/2010

BRIDGE NO. 2579	BRIDGE PLANS
16699.00	PIN
16699.00	
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	



CURVE DATA #3
 PI = 8+61.81
 D = 4°48'43.5"
 A = 20°09'56.2" Lt.
 R = 1190.67'
 L = 419.06'
 T = 211.72'
 E = 18.66'

CURVE DATA #2
 PI = 5+48.24
 D = 3°57'05.2"
 A = 8°03'43.2"
 R = 1450.00'
 L = 204.02'
 T = 102.18'
 E = 3.60'

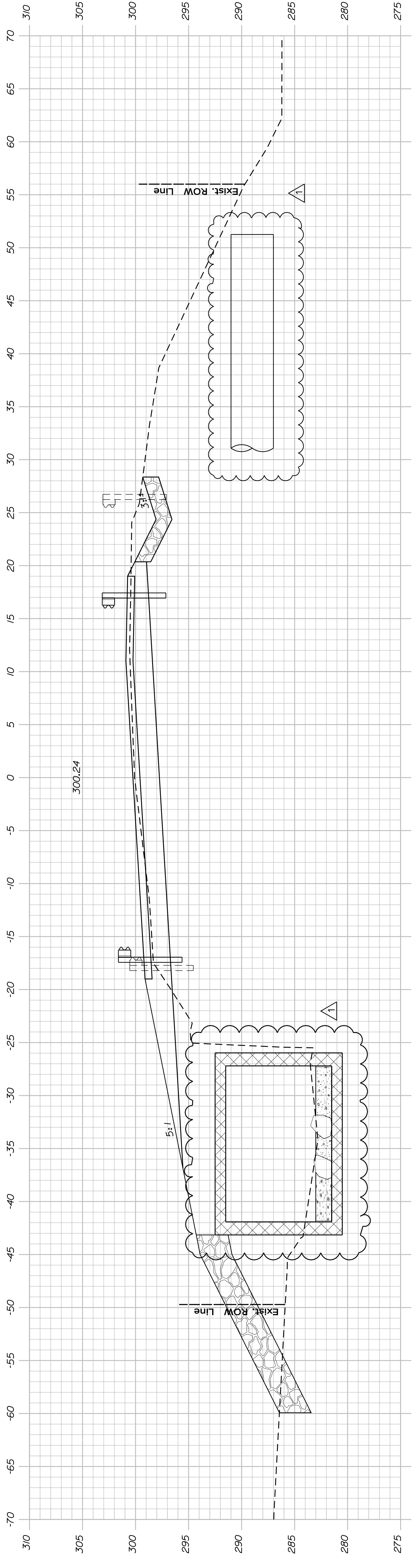
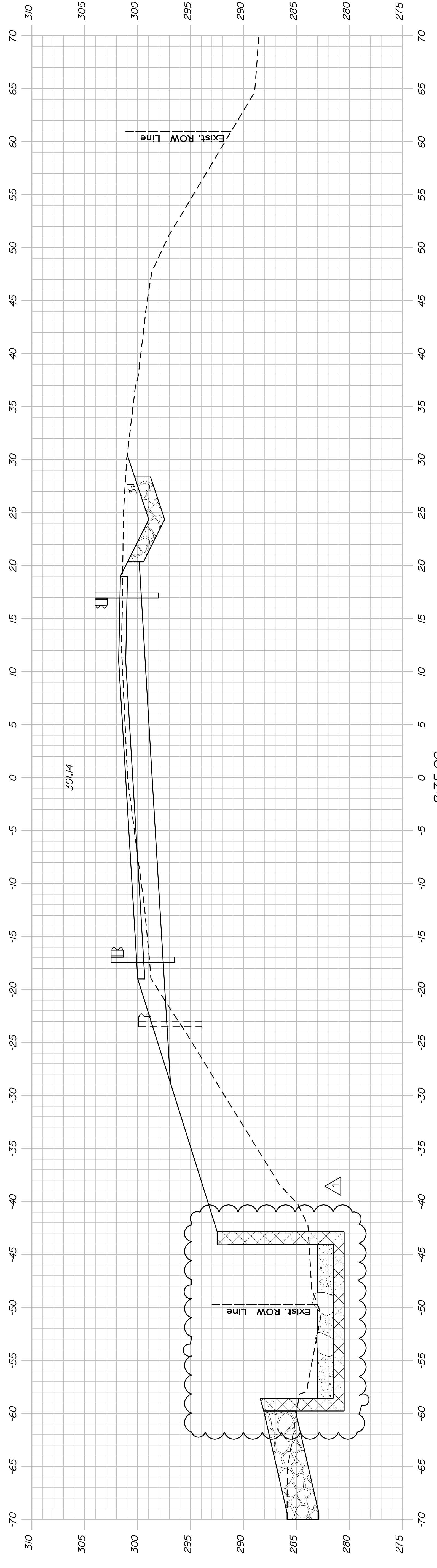
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 PI = 12+09.27
 D = 0°49'06.6"
 A = 2°17'36.3" Lt.
 R = 7000.00'
 L = 280.19'
 T = 140.12'
 E = 1.40'

PROJ. MANAGER	S. BOGGE	BY	DATE
DESIGN-DETAILER	M. WIGHT	Team	DEC 2009
CHECKED-REVIEWED			
DESIGN-REVIEWED			
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

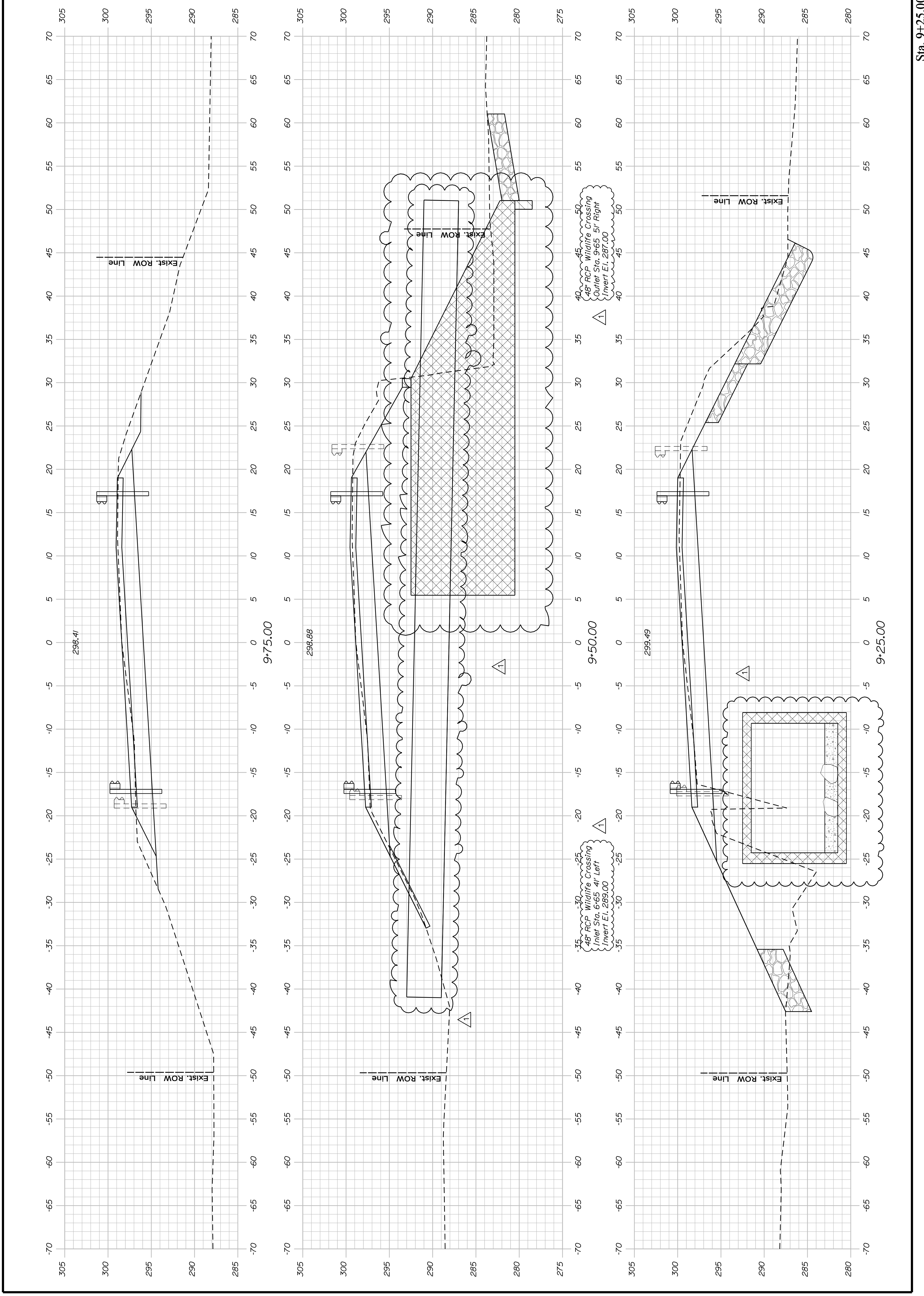
DATE	
P. E. NUMBER	6/4/2010
SIGNATURE	
BID AMENDMENT	** 6/4/2010

BRIDGE NO. 2579	16699.00
PIN	16699.00
BRIDGE PLANS	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

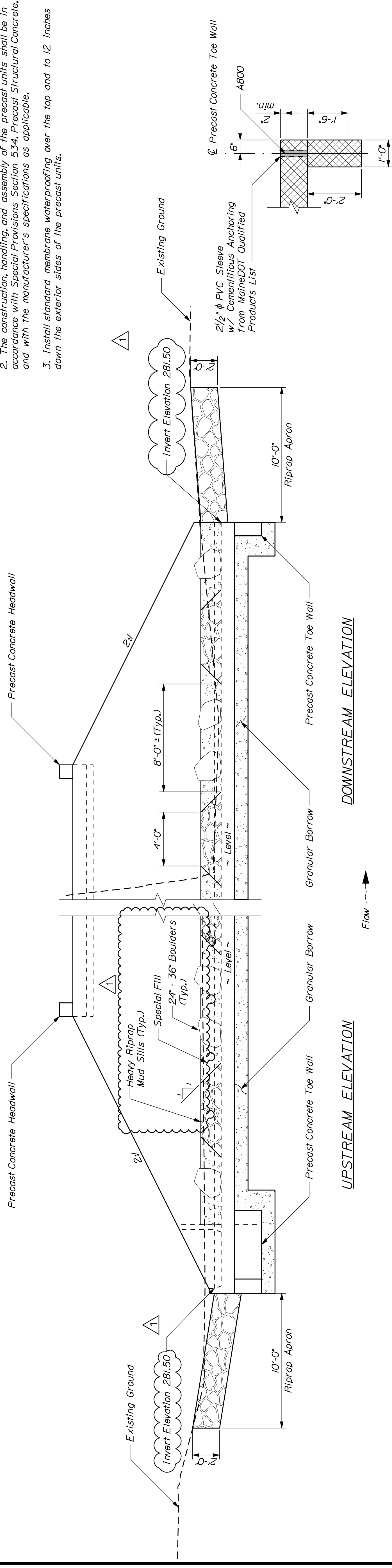


PROJ. MANAGER	S. BOGDZ	BY	DATE
DESIGN-DETAILED	M. WIGHT	Team	Nov 14 DEC 2009
CHECKED-REVIEWED			
DESIGNS-DETAILED			
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REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

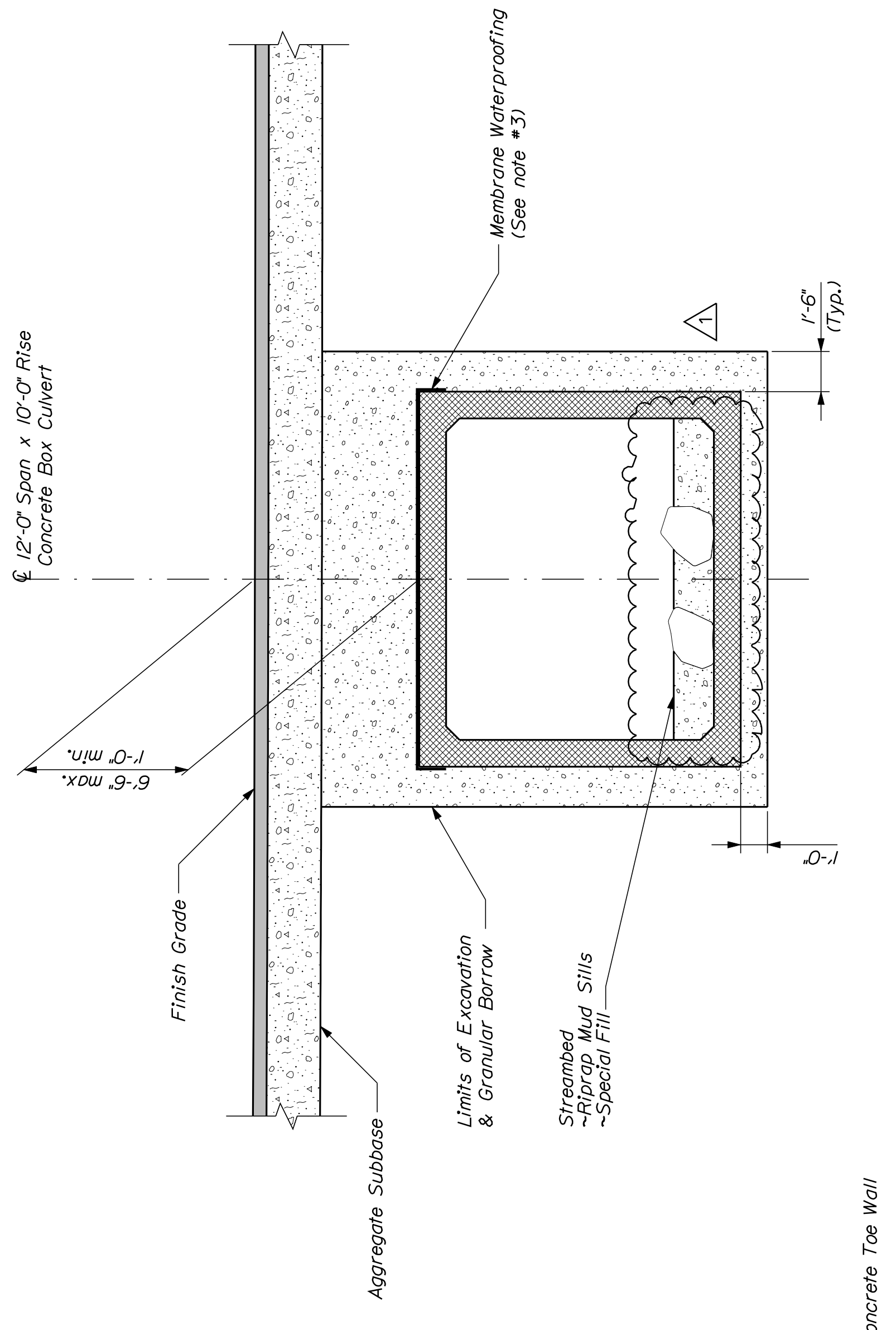


PROJ. MANAGER	S. BOGGE	BY	DATE
CHECKED-REVIEWED	M. WIGHT	Team	10/13/2009
DESIGN-DETAILS			
DESIGN-DETAILS			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

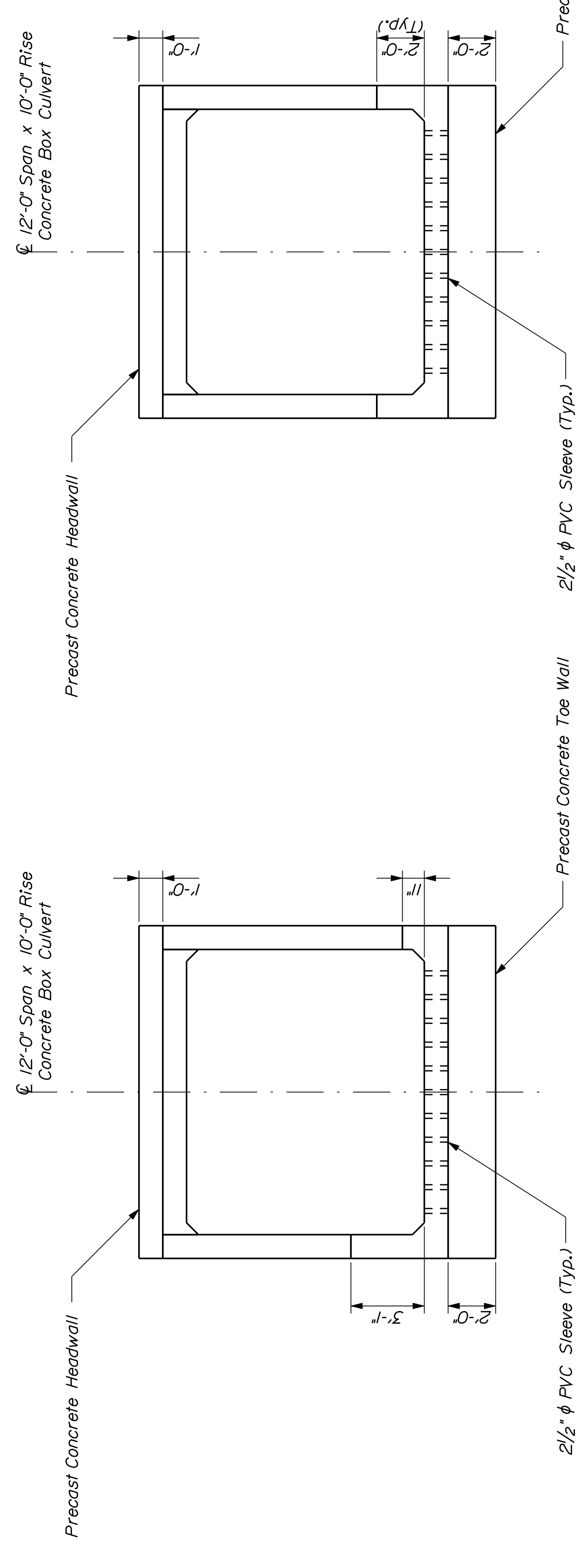
- PRECAST CONCRETE ARCHES OR BOXES NOTES
- The precast units shall be designed to carry construction loadings with a minimum fill cover of 18 inches over the top of the units.
 - The construction, handling, and assembly of the precast units shall be in accordance with Special Provisions Section 534, Precast Structural Concrete, and with the manufacturer's specifications as applicable.
 - Install standard membrane waterproofing over the top and to 12 inches down the exterior sides of the precast units.



PRECAST CONCRETE TOE WALL DETAIL



TYPICAL SECTION



DOWNSTREAM END VIEW

UPSTREAM END VIEW