



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

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

January 9, 2009
Subject: **Gilead**
Federal Project No: HP-9184(500)E
State Project No. 009184.50
Amendment No. 1

Dear Sir/Ms:

Make the follow changes to the Bid Documents:

In the Bid Book, **REMOVE** the "SCHEDULE OF ITEMS" (pages 4 through 11), 8 pages dated 081217, and **REPLACE** with the attached new "SCHEDULE OF ITEMS", 8 pages dated 090109.

In the Plans, "ESTIMATED QUANTITIES" (Plan Sheet 8 of 125); **DELETE** Item No 508.14 in its entirety. **ADD** "Item No. 508.13. – Membrane Waterproofing – 1 – LS"
Make this change in pen and ink.

In the Plans, Sheet No. 14 of 125, **DELETE** in its entirety the note under "MAINTENANCE OF TRAFFIC" and **REPLACE** with the following "A minimum 4.0 meter wide lane of alternating two-way traffic shall be maintained during the time the contractor is working in the area. All other times two lanes of traffic must be maintained, unless at the contractor's option, temporary traffic signals are utilized. Payment for temporary traffic signals shall be incidental to Traffic Control Plan." Make this change in pen and ink.

In the Plans, after Plan Sheet 13 of 125, **INSERT** the attached "SOIL/ROCK EXPLORATION LOG" for Bog Brook Bridge.

In the Plans, after Plan Sheet 15 of 125, **INSERT** the attached "BOX CULVERT DETAILS" for The Peabody School Bridge over Bog Brook.

The Following Questions have been received:

Question: The proposal Book states that the bid must be accompanied by the DBE Utilization Form. Please clarify the acceptable method.

Response: The DBE Utilization Form must accompany the bid. If you submit a paper bid, it must be included in the bid envelope. If you are submitting an electronic bid, fax the DBE Utilization Form to 624-3431 before 11:00 AM.



PRINTED ON RECYCLED PAPER

Question: I am unable to open the Geotech Report on the website. Is it possible to have a hard copy either mailed or e-mailed to me?

Response: The report can be accessed at our web site or directly from our ftp site <ftp.state.me.us/mainedot/gilead> 918450. The report contains 79 pages and may take some time to download depending on your type of internet connection. Adobe Reader is required to open the document and is available free by clicking on the link at the bottom of the Gilead page. Mailed copies are available from the bid contact person via RFI.

Question: Bid Item No. 508.14, High Performance Membrane, must be for the 1' joint on the box culverts. Shouldn't this be Item No. 508.13 instead?

Response: Yes, please see the new Schedule of Items.

Question: Bid Item No. 635.14, Prefab Modular Wall, is this for the Bog Brook culvert wings?

Response: Yes

Question: In the Plans, Sheet number 14 of 125 references a temporary traffic signal to maintain alternating, one way traffic. How will this be paid? Should a bid item for this work be added to the bid schedule?

Response: Please see the above pen and ink change. Payment for the temporary signal, if used at the contractor's option shall be incidental to the Traffic Control Plan.

Question: The geotechnical report references a separate report for the Bog Brook location, but it is not included in the report. Could this please be provided?

Response: The Bog Brook Bridge (aka Peabody School Bridge) is a box culvert, and no soil report was issued. The raw Geotechnical data for design of this structure is attached.

Question: Is Item No. 635.30, Prefabricated Modular Gravity Wall, meant to be utilized as the wingwalls at the Bog Brook location? Please provide elevations for these wingwalls to enable the Contractor to estimate stem lengths, shoring requirements and incidental earthwork associated with these wingwalls.

Response: Yes, item 635.30 Prefabricated Modular Gravity Wall is meant to be utilized as the wingwalls for Bog Brook location. The low end of wingwall elevations are as shown on the attached pdf. The high end shall match the top of the precast box culvert headwall. The bottom of the wall shall be embedded 2000 mm below adjacent ground.

Question: Will the underground telephone cable be relocated in sections prior to excavation or will it be relocated towards the end of the project when all the new poles are installed?

Response: See utility spec. pgs 32&33. Contact Brent Hadley @ 207-462-2754

Question: SP304, dated 11/22/08, regarding the Dense Graded Base states "...it will be manufactured from the project site". If the Contractor chooses this alternate will they be compensated for the additional Common Borrow required to replace the material used to make this Base material?

Response: SP 304, dated 11/22/08 states the Dense Graded Base MAY be manufactured from the project site, not WILL be manufactured from the project site, as the RFI misquotes. If the contractor chooses to use excavated materials from the project site for the use of manufacturing Dense Graded Base, an equal quantity will be deducted from common borrow.

Question: How is the removal of the existing bridge at Bog Brook to be paid?

Response: Item 202.19 Remove existing bridge 1 LS

Consider these changes and information prior to submitting your bid on **January 14, 2009.**

Sincerely,



For
Scott Bickford
Contracts & Specifications Engineer

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 009184.50

PROJECT(S): HP-9184(500)E

CONTRACTOR : _____

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

SECTION 0001 PROJECT ITEMS

0010	201.11 CLEARING	6.000 HA				
0020	201.23 REMOVING SINGLE TREE TOP ONLY	2.000 EA				
0030	201.24 REMOVING STUMP	2.000 EA				
0040	202.08 REMOVING BUILDING NO.: 1	LUMP	LUMP			
0050	202.15 REMOVING MANHOLE OR CATCH BASIN	1.000 EA				
0060	202.19 REMOVING EXISTING BRIDGE	LUMP	LUMP			
0070	203.20 COMMON EXCAVATION	71400.000 M3				
0080	203.21 ROCK EXCAVATION	7550.000 M3				
0090	203.211 PRESPLITTING ROCK	1950.000 M				
0100	203.213 FRACTURING EXISTING SUBGRADE LEDGE	1510.000 M2				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 009184.50

PROJECT(S): HP-9184(500)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	203.24 COMMON BORROW	15600.000 M3				
0120	203.242 DIRTY BORROW	1700.000 M3				
0130	203.25 GRANULAR BORROW	500.000 M3				
0140	206.061 STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	50.000 M3				
0150	206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	45.000 M3				
0160	211.30 DITCH EXCAVATION	400.000 M				
0170	403.208 HOT MIX ASPHALT 12.5 MM, SURFACE	3520.000 MG				
0180	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	40.000 MG				
0190	403.211 HOT MIX ASPHALT (SHIM)	100.000 MG				
0200	403.213 HOT MIX ASPHALT 12.5 MM, BASE	4020.000 MG				
0210	409.15 BITUMINOUS TACK COAT APPLIED	5500.000 L				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 009184.50

PROJECT(S): HP-9184(500)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0220	504.069 CONCRETE PIPE TIES	52.000 EA				
0230	508.13 MEMBRANE WATERPROOFING	LUMP	LUMP			
0240	511.07 COFFERDAM: DOWNSTREAM	LUMP	LUMP			
0250	511.07 COFFERDAM: UPSTREAM	LUMP	LUMP			
0260	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0270	534.71 PRECAST CONCRETE BOX CULVERT Bog Brook	LUMP	LUMP			
0280	534.71 PRECAST CONCRETE BOX CULVERT STA 6+938.5	LUMP	LUMP			
0290	534.71 PRECAST CONCRETE BOX CULVERT STA 7+270.9	LUMP	LUMP			
0300	534.71 PRECAST CONCRETE BOX CULVERT STA 9+065.8	LUMP	LUMP			
0310	603.15 300 MM CULVERT PIPE OPTION I	4.000 M				
0320	603.16 375 MM CULVERT PIPE OPTION I	30.000 M				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 009184.50

PROJECT(S): HP-9184(500)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0330	603.17 450 MM CULVERT PIPE OPTION I	64.000 M				
0340	603.175 450 MM RCP CLASS III	245.000 M				
0350	603.19 600 MM CULVERT PIPE OPTION I	32.000 M				
0360	603.195 600 MM RCP CLASS III	71.000 M				
0370	603.41 600 MM REINFORCED CONCRETE PIPE CLASS IV	44.000 M				
0380	604.092 CATCH BASIN TYPE B1-C	1.000 EA				
0390	605.09 150 MM UNDERDRAIN TYPE B	215.000 M				
0400	605.10 150 MM UNDERDRAIN OUTLET	35.000 M				
0410	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	1950.000 M				
0420	606.232 GUARDRAIL TYPE 3C - OVER 4.5 M RADIUS	50.000 M				
0430	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	2.000 EA				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 009184.50

PROJECT(S): HP-9184(500)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0440	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	30.000 EA				
0450	606.356 UNDERDRAIN DELINEATOR POST	3.000 EA				
0460	606.79 GUARDRAIL 350 FLARED TERMINAL	13.000 EA				
0470	609.31 CURB TYPE 3	700.000 M				
0480	610.08 PLAIN RIPRAP	2050.000 M3				
0490	610.18 STONE DITCH PROTECTION	140.000 M3				
0500	613.319 EROSION CONTROL BLANKET	2400.000 M2				
0510	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	350.000 UN				
0520	618.1411 SEEDING METHOD NUMBER 3 - PLAN QUANTITY	310.000 UN				
0530	618.145 SPECIAL SEED	80.000 KG				
0540	619.1201 MULCH - PLAN QUANTITY	350.000 UN				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 009184.50

PROJECT(S): HP-9184(500)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0550	619.1401 EROSION CONTROL MIX	M3 3050.000				
0560	620.54 STABILIZATION GEOTEXTILE	M2 1000.000				
0570	620.58 EROSION CONTROL GEOTEXTILE	M2 4500.000				
0580	627.711 WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE (PLAN QUANTITY)	M 9700.000				
0590	627.76 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LUMP	LUMP			
0600	629.05 HAND LABOR, STRAIGHT TIME	HR 100.000				
0610	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR 50.000				
0620	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	HR 30.000				
0630	631.22 FRONT END LOADER (INCLUDING OPERATOR)	HR 20.000				
0640	635.14 PREFABRICATED CONCRETE MODULAR GRAVITY WALL	M2 160.000				
0650	652.33 DRUM	EA 100.000				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 009184.50

PROJECT(S): HP-9184(500)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0660	652.34 CONE	EA 150.000				
0670	652.35 CONSTRUCTION SIGNS	M2 110.000				
0680	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP	LUMP			
0690	652.38 FLAGGER	HR 12000.000				
0700	652.41 PORTABLE - CHANGEABLE MESSAGE SIGN	EA 2.000				
0710	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0720	659.10 MOBILIZATION	LUMP	LUMP			
0730	660.21 ON-THE-JOB TRAINING (BID)	HR 2000.000				
SECTION 0001 TOTAL						.

SECTION 0002 ALTERNATE PAVEMENT 1
ALT GROUP AP1

0740	304.09 AGGREGATE BASE COURSE - CRUSHED	M3 12500.000				
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SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 009184.50

PROJECT(S): HP-9184(500)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0750	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	18650.000 M3				
0760	403.207 HOT MIX ASPHALT 19.0 MM NOMINAL MAX SIZE	5500.000 MG				
SECTION 0002 TOTAL						.
SECTION 0003 ALTERNATE PAVEMENT 2 ALT GROUP AP2						
0770	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	20350.000 M3				
0780	304.1311 DENSE-GRADED CRUSHED AGGREGATE BASE	11000.000 M3				
0790	403.207 HOT MIX ASPHALT 19.0 MM NOMINAL MAX SIZE	4850.000 MG				
SECTION 0003 TOTAL						
TOTAL BID SECTION 0001 W/CHOSEN ALT.						

Maine Department of Transportation SOIL/ROCK EXPLORATION LOG US Customary Units		Project: BOGE BROOK BRIDGES Location: ROUTE 2 GILGAD	Boring No.: BB-GIL-201 PIN: 9184.00
Drilling Contractor: MAINE TEST BORINGS		Drilling Method: CASED WASH BORING	
Operator/Assistant: TOM SCHAEFER / JONATHAN		Casing ID/OD: HW 4"/4.5"	
Logged By: G. LIDSTONE		Auger ID/OD: 5" SSA	
Rig Type: TRACK MOUNTED MOBILE B-47		Sampler: SPT	
Date Start/Finish: 7-25-06 7-26-06		Hammer WL/Fall: 140#/30" 300#/16"	
Time Start/Finish: 3:30		Core Barrel:	
Boring Location: 7+676, 2.6M LT		Water Level: 9.2'	
Elevation:			

Definitions:
 D = Split Spoon Sample
 MD = Unsuccessful Split Spoon Sample Attempt
 U = Thin Wall Tube Sample
 R = Rock Core Sample
 V = In Situ Vane Shear Test
 MV = Unsuccessful Vane Attempt
 C_u = Unconfined Compressive Strength (psi)
 C_v = In Situ Vane Shear Strength (psi)
 SBA = Solid Stem Auger
 HSA = Hollow Stem Auger
 RD = Roller Core
 WDR = Weight of 140 lb. Hammer
 WOR = Weight of Rod
 WOP = Weight of 1 Person

Depth (ft)	Sample Information								Sample Description and Classification	Rock Core Log
	Sample No.	Pen/Rec (ft.)	Depth (ft)	Blows (ft)	Blow Strength (psi) or RQD (%)	N-value	Casing	Blows		
								SSA		
5								↓		
								7		
								10		
10								9		
								8		
								5		
								16		
								115		
			12.5-13'		ROLLER CORE			128		
15			14'-15'		ROLLER CORE			45		
								50		
			15'-17'		ROLLER CORE			15		
								55		
								50		
20								58		
								62		
			20'-20.5'		ROLLER CORE			27		
	1D	24/7'	20.5'-22.5'	7/7	8/8	15	33	20.5'-26'	BROWN WET C-M SAND LITTLE GRAY CLAY TRACES FINE SAND	
								40		
								57		
25								85		

2D(A)
26'-26'

Remarks: DROP WINCH, DOWN T MANNERS
 OFFSET FROM PROPOSED C (BORING IS 6.9M LT OF EXISTING)
 7-25-06 3:30-6:30
 7-26-06 6:00-4:30 START @ 22' MECHANICAL DOWNTIME 10:00-11:00

Page 1 of 3
 Boring No: BB-GIL-201

Maine Department of Transportation SOIL/ROCK EXPLORATION LOG US Customary Units		Project: BOG BROOK BRIDGE Location: ROUTE 2 GIL GARD	Boring No.: BB-GIL-201 PIN: 9184.00
Drilling Contractor: MTB		Drilling Method: CASED WASH BORING	
Operator/Assistant: TOM / JONATHAN		Casing ID/OD: HW 4"/4.5" NW 3"/3.5"	
Logged By: GL		Auger ID/OD: -	
Rig Type: MUDRIG 347		Sampler: SPT	
Date Start/Finish: 7-25-06 / 7-26-06		Hammer Wt/Fall: 140#/30" 300#/16"	
Time Start/Finish:		Core Barrel:	
Boring Location: 74637, 216M LT		Water Level: 9.2'	
Elevation:			

Definitions:
 D = Split Spoon Sample
 MD = Unconsolidated Split Spoon Sample Attempt
 U = Thin Wall Tube Sample
 R = Rock Core Sample
 V = In Situ Vane Shear Test
 MV = Unconsolidated Vane Attempt
 C_u = Unconsolidated Compressive Strength (pcf)
 C_v = In Situ Vane Shear Strength (pcf)
 SBA = Solid Stem Auger
 NSA = Hollow Stem Auger
 RA = Roller Cone
 WCM = Weight of 140 lb. Hammer
 WCR = Weight of Rods
 WOF = Weight of 1 Person

Depth (ft)	Sample Information								Sample Description and Classification	Rock Core Log	
	Sample No.	Pen/Rec (in.)	Depth (ft)	Blows (ft)	Blows (in)	Strength (pcf) or (psi)	RCB (%)	M-value			Casing Blows
20	2D	24/13"	25'-27'	12/13	13/13			26	48	26' - 28' BROWN LAYERED WGT MEDIUM DENSE FINE SAND TRACE SILT, OXIDIZED SILTY FINE SAND LAYERS	2D (G) 26'-27'
	A+B								62		
									62		
30									58	28' - 33.5' LIGHT BROWN MOIST MEDIUM DENSE FINE SAND TRACE SILT TRACE C-10 SAND LAYERS	
									65		
	3D	24/14"	30'-32'	10/11	15/21			26	40		
35									49	33.5' - 40' GRAY WGT VERY DENSE F-M SAND, SOME GRAVEL, TRACE SILT	
									65		
			34'-35'	ROLLER CONG					65		
40	4D	24/12"	35'-37'	12/22	60/27			82	62	40' - 44' GRAY MOIST VERY DENSE FINE SAND, SILT LAYERS TRACE GRAVEL	
			35.5'-40'	ROLLER CONG					70		
									63		
45									90	44' - 45.1' GRAY DAMP VERY DENSE SILTY FINE TO MED SAND LITTLE GRAVEL (TRCL)	
			39'-40'	ROLLER CONG					65		
									40		
50	5D	14/8"	40'-41.2'	27/70	50-0.2'			-	40	45.1' - 45.7' COBBLE	
			40-45'	ROLLER CONG					OPEN		
									MEG		
55	6D	1/1"	45'-45.1'	50	0.1'			-	47	45.1' - 45.7' COBBLE	
			45'-47.2'	ROLLER CONG					95		

Remarks: WATER LEVEL MEASURED AT 6:15 AM 7-26-06 HW CASING TO 90.5', TELESCOPE WITH NW CASING	Page <u>2</u> of <u>3</u> Boring No: BB-GIL-201
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Maine Department of Transportation SOIL/ROCK EXPLORATION LOG US Customary Units		Project: <u>BOG BROOK BRIDGE</u> Location: <u>ROUTE 2</u> <u>GILGAD</u>	Boring No.: <u>BB-GIL-201</u> PIN: <u>91R4.00</u>
Drilling Contractor: <u>MTB</u>		Drilling Method: <u>CASED WASH BORING</u>	
Operator/Assistant: <u>TOM / JONATHAN</u>		Casing ID/OD: <u>Hw, Nw</u>	
Logged By: <u>GL</u>		Auger ID/OD:	
Rig Type: <u>MOBILE B-47</u>		Sampler: <u>SPT</u>	
Date Start/Finish: <u>7-25-06 / 7-26-06</u>		Hammer Wt/Fall: <u>140#/30" 300#/16"</u>	
Time Start/Finish:		Core Barrel: <u>NO-24</u>	
Boring Location: <u>7+637, 2.6 m LT</u>		Water Level: <u>9.2'</u>	
Elevation:			

Definitions:
 D = Split Spoon Sample
 MB = Unconsolidated Split Spoon Sample Attempt
 U = Thin Wall Tube Sample
 R = Rock Core Sample
 V = Vane Shear Test
 NV = Unsuccessful Vane Attempt
 C_u = Undrained Compressive Strength (pcf)
 S_u = Undrained Shear Strength (pcf)
 SBA = Solid Stem Auger
 HSA = Hollow Stem Auger
 RC = Retter Cone
 WBM = Weight of 140 lb. Hammer
 WDR = Weight of Rod
 WOP = Weight of 1 Person

Depth (ft)	Sample Information							Sample Description and Classification	Rock Core Log
	Sample No.	Pan/Rec (in.)	Depth (ft)	Blows (ft)	Shear Strength (pcf) or RCOD (%)	N-value	Casing Blows		
			50-51.1'	Roller Cone				51.1' BEDROCK	
	R1	60/55"	51.1'-56.1'	RCOD = 32%/60"				R1 51.1' - 52.1' 4:10	
		92%		53%				52.1' - 53.1' 4:45	
								53.1' - 54.1' 2:55	
								54.1' - 55.1' 3:15	
								55.1' - 56.1' 3:40	
	R2	55/57"	56.1'-60.7'	RCOD = 49%/55"				R2 56.1' - 57.1' 2:05	
		104%		89%				57.1' - 58.1' 2:10	
								58.1' - 59.1' 2:30	
								59.1' - 60.1' 3:15	
								60.1' - 60.7' 1:55	

Remarks:	7-26-06 STANDBY THUNDERSTORM 1:30-2:15 " MOVE TO BB-GIL-202 4:30-6:00	Page <u>3</u> of <u>3</u> Boring No: <u>BB-GIL-201</u>
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Maine Department of Transportation SOIL/ROCK EXPLORATION LOG US Customary Units		Project: <u>BOLE BROOK BRIDGE</u> Location: <u>ROUTE 2</u> <u>CAUGAD</u>	Boring No.: <u>BB-GIL-202</u> PIN: <u>9184.00</u>
Drilling Contractor: <u>MTB</u>	Drilling Method: <u>CASED WASH BORING</u>		Definitions: D = Split Spoon Sample MD = Unsuccessful Split Spoon Sample Attempt U = Thin Wall Tube Sample R = Rock Core Sample V = In Situ Vane Shear Test MV = Unsuccessful Vane Attempt C _u = Unconfined Compressive Strength (psi) C _v = In Situ Field Vane Shear Strength (psi) SBA = Solid Stem Auger HSA = Hollow Stem Auger RC = Roller Core WDM = Weight of 140 lb. Hammer WCR = Weight of Rod WOP = Weight of 1 Person
Operator/Assistant: <u>TOM/JONATHAN</u>	Casing ID/OD: <u>NW 3"/3.5"</u>		
Logged By: <u>GL</u>	Auger ID/OD: <u>5" SSA</u>		
Rig Type: <u>TRUCK MOUNTED MOBILS B-47</u>	Sampler: <u>---</u>		
Date Start/Finish: <u>7-27-06</u>	Hammer Wt./ Fall: <u>300#/16"</u>		
Time Start/Finish: <u>6:30</u>	Core Barrel:		
Boring Location: <u>7+662.1, 5.8 m LT</u>	Water Level:		
Elevation:			

Depth (ft)	Sample Information								Sample Description and Classification	Rock Core Log
	Sample No.	Pen/Rec (ft.)	Depth (ft)	Blows (ft)	Shear Strength (pcf) or RQD (%)	N-value	Casing	Blows		
5							SSA		NO SPT SAMPLES OR SOIL DESCRIPTIONS - LOOKING FOR BEDROCK	
10										
15									15' - 17' ROLLER CONES AHEAD	
20									20' - 22' ROLLER CONES AHEAD	
25									25' WASH OUT CASING, ROLLER CONES AHEAD TO 26'	

Remarks: DROP W/ W/ W/ DONUT HAMMER
 OFFSET IS FROM PROPOSED C (BORING IS 9.7 M LT OF EXISTING E)
 7-27-06 6:30 - 2:00

Page 1 of 3
 Boring No: BB-GIL-202

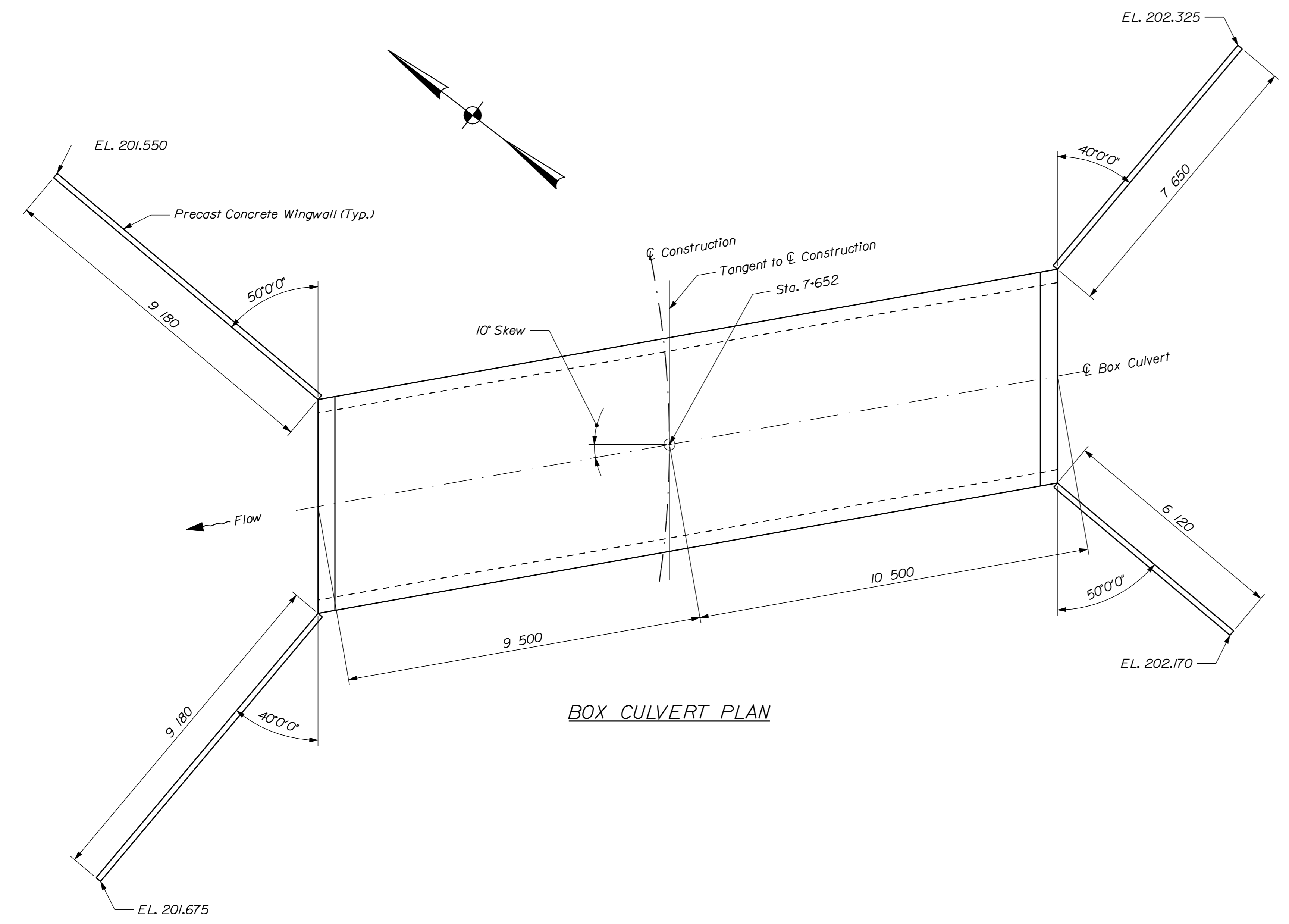
Maine Department of Transportation SOIL/ROCK EXPLORATION LOG US Customary Units		Project: BOE BROOK BRIDGE Location: ROUTE 2 GILGAD	Boring No.: BB-GIL-202 PIN: 9184.00
Drilling Contractor: MTB	Drilling Method: CHASED WASH BORING		Definitions: D = Split Spoon Sample MD = Unsuccessful Split Spoon Sample Attempt U = Thin Wall Tube Sample R = Rock Core Sample V = Split Vane Shear Test MV = Unsuccessful Vane Attempt C _u = Unconfined Compressive Strength (psf) C _v = In Situ Field Vane Shear Strength (psf) SBA = Solid Stem Auger HSA = Hollow Stem Auger RO = Roller Cone WOH = Weight of 140 lb. Hammer WOR = Weight of Rods WOP = Weight of 1 Pouch
Operator/Assistant: TDM / JUNI	Casing ID/OD: NW 3"/3.5"		
Logged By: GL	Auger ID/OD: —		
Rig Type: MOBILE G-47	Sampler: —		
Date Start/Finish: 7-27-06	Hammer Wt/Fall: 300#/16'		
Time Start/Finish:	Core Barrel:		
Boring Location: 7+662.1, S.8m LT	Water Level:		
Elevation:			

Depth (ft)	Sample Information								Sample Description and Classification	Rock Core Log
	Sample No.	Pen/Rac (in.)	Depth (ft)	Blows (ft)	Shear Strength (psf) or RCOD (%)	SI-value	Casing Blows			
30							20			
							50			
							42			
							43			
							50		30' - 32' ROLLER CONE ANCHOR	
35							21			
							21			
							30			
							50			
							62		35' - 37' ROLLER CONE ANCHOR	
40							14			
							20			
							41			
							55			
							160		40' - 42' ROLLER CONE ANCHOR	
45							53			
							65		42' - 43' ROLLER CONE ANCHOR	
							24			
							120		43.3' - 43.9' COBBLE ROLLER CONE ANCHOR	
							40		43.3' - 45' ROLLER CONE ANCHOR	
50							4		45' - 49' ROLLER CONE ANCHOR	
							25			
							36			
							40		48.7' - 49' ROLLER CONE ANCHOR	
									48.8' - 49.2' COBBLE	

Remarks:	Page <u>2</u> of <u>3</u>
	Boring No: BB-GIL-201

FHWA REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	AC-NH-9184(50)	2	-

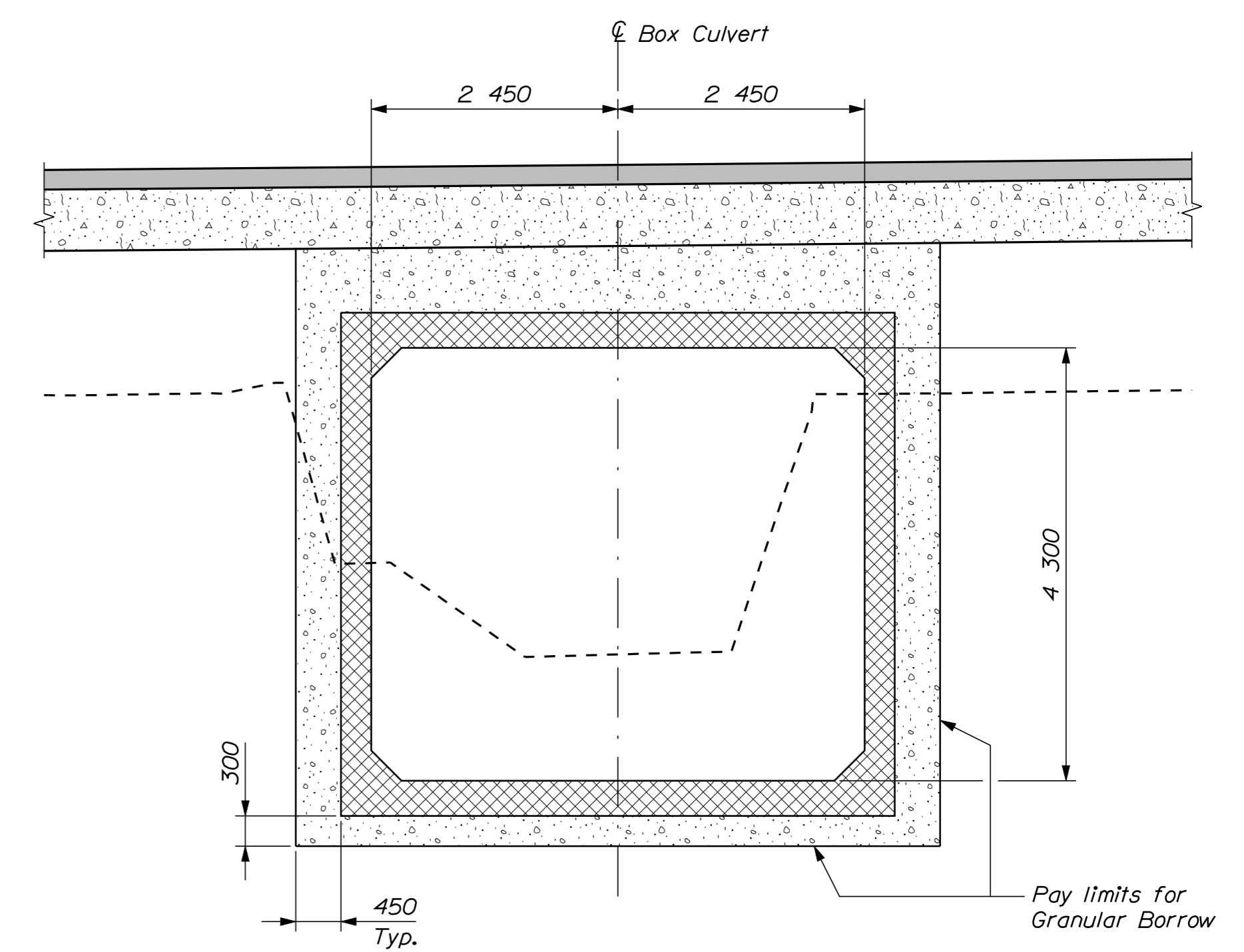
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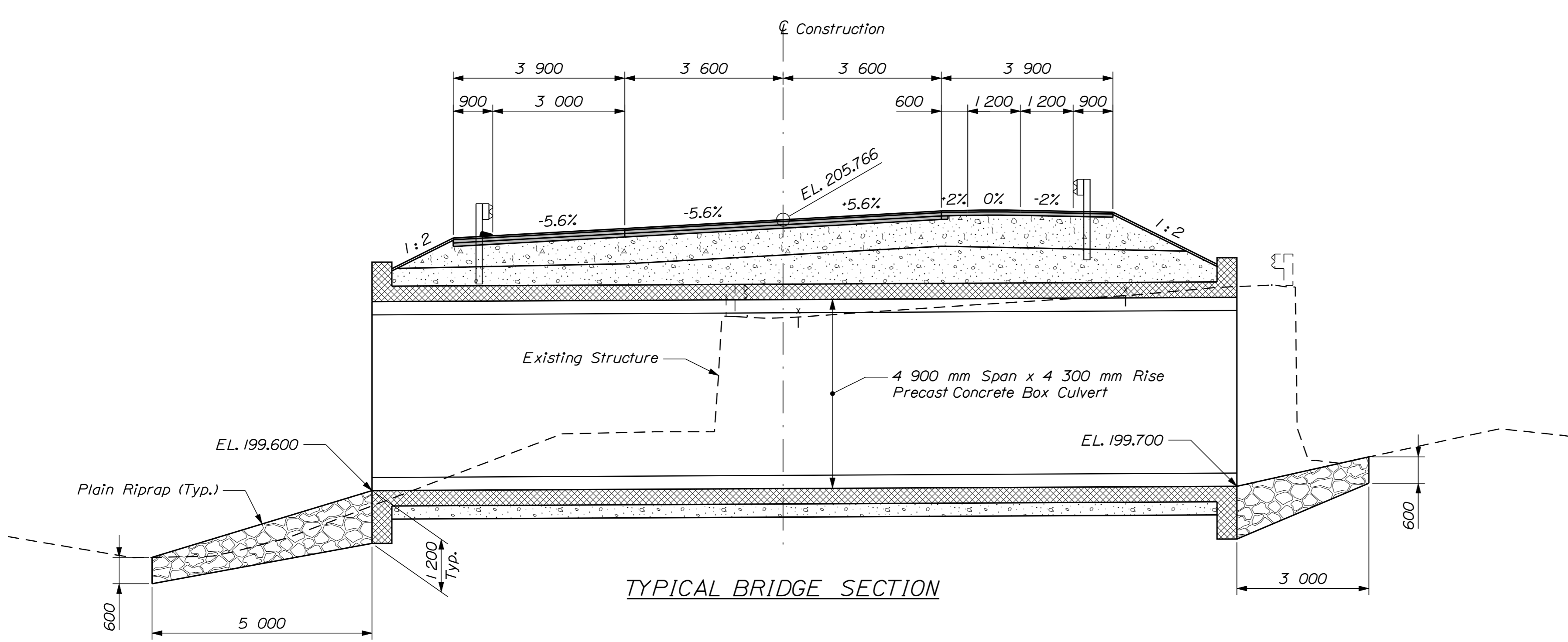
BOX CULVERT PLAN

PRECAST CONCRETE BOX CULVERT NOTES

1. The precast units shall be designed to carry construction loadings with a minimum fill cover of 450 mm on top of the units.
2. 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.
3. Install membrane waterproofing over the top and 300 mm down the exterior sides of the precast units.



BOX CULVERT SECTION



TYPICAL BRIDGE SECTION

Date: 1/8/2009

Username: dana.damren

Division: BRIDGE

Filename: ... \002_Box_Culvert Details.dgn

PROJECT DESIGN ENGINEER	BY	DATE
J. Folsom	D. Damren	June 2008
DESIGN-DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

BRIDGE NO. 2652

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION

PEABODY SCHOOL BRIDGE
 OVER
 BOG BROOK
 IN THE TOWN OF
 GILEAD
 OXFORD COUNTY

BOX CULVERT DETAILS

SHEET OF AUGUSTA, MAINE