



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

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

November 18, 2008
Subject: **Bangor Hammond St Bridge**
Federal Project No. AC-IM-1264(300)X
State Pin No.012643.00
Amendment No. 1

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 3 through 10), **REMOVE** the "SCHEDULE OF ITEMS, (8 pages dated 081023) and **REPLACE** with the attached, new "SCHEDULE OF ITEMS" (8 pages dated 081117)

In the Bid Book (pages 72 & 73), **REMOVE** "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT, 2 pages dated October 16, 2008 and **REPLACE** with the attached, new "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT, 2 pages dated November 17, 2008.

In the Bid Book (page 79), **REMOVE** "SPECIAL PROVISION, SECTION 502, STRUCTURAL CONCRETE,(QC/QA Acceptance Methods)", 1 page dated August 12, 2008 and **REPLACE** with the attached, new SPECIAL PROVISION, SECTION 502, STRUCTURAL CONCRETE,(QC/QA Acceptance Methods)", 1 page dated November 17, 2008

In the Bid Book, after page 83, **ADD** the attached "SPECIAL PROVISION, SECTION 511, COFFERDAMS" 4 pages total.

In the Bid Book, after page 97 **ADD** the attached "SPECIAL PROVISIONS, SECTION 621, LANDSCAPE, (Plant Species Specification and Quantities List)", one page total.

In the Plans, **REPLACE** the following pages with the attached new Plan Sheets:
Plan Sheet 2 of 59, Estimate of Quantities and General Construction Notes
Plan Sheet 36 of 59, Pier Cap and Column Reinforcement
Plan Sheet 37 of 59, Bearings
Plan Sheet 43 of 59, Precast Girders No. 1 & 8, Location of Utility Inserts
Plan Sheet 52 of 59, Superstructure
Plan Sheet 56 of 59, Bridge Drains
Plan Sheet 59 of 59, Traffic Control Plan

The following questions have been received:



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Question: In the Plans, the Pier Cap as designed on Plan Sheet 36 of 59 does not accommodate the Pier Diaphragm as designed on Plan Sheets 50 of 59 and 51 of 59.
Response: Sheet Number 36 has been modified as needed with a trough to accommodate the deep reinforced concrete key that is the bottom portion of the pier diaphragm.

Question: Cofferdams or support of excavation is required for the structural excavation of the piers and abutments. Can a pay item be added for this scope of work?

Response: This amendment changes the Estimate of Quantities on Sheet #2 and the Schedule of Items to include: 511.07 Cofferdam – Abutment No. 1, 1 Lump Sum; 511.07 Cofferdam – Pier, 1 Lump Sum; 511.07 Cofferdam – Abutment No. 2, 1 Lump Sum. The existing abutments and median pier must be removed in their entirety. The existing piers outside the interstate traveled way must be removed to a minimum of one foot below the bottom of the ditch and as required by any spatial conflicts with the proposed structure. Any bracing required for the removal of the existing outside piers is considered incidental to the related contract items.

Question: There are no limits of demolition shown for the existing bridge. Is it acceptable to leave piers and footings one foot below grade?

Response: All of the existing bridge, including the median pier, must be removed in its entirety, except that the two piers outside of the interstate traveled way shall be removed to a minimum depth of one foot below the ditch line and as necessary to avoid spatial conflict with the proposed structures. Please refer to the above answer.

Question: Item 202.11, Remove Portland Cement Concrete Pavement. Where is this pavement located? There is no reference or details in the documents.

Response: The Portland Cement Concrete Pavement was constructed by others and the Maine Department of Transportation has not been able to acquire any plans or details. The item is paid per square yard. It has been estimated as 20 feet wide for the whole length of the full depth roadway construction.

Question: In the Plans, Sheet 2 of 59, Note 18. This note is confusing, are precast deck panels allowed?

Response: “Precast Concrete Deck Panels” as shown and defined in the Maine Department of Transportation Standard Details are not allowed. Any panels utilizing prestressing are not allowed. Refer to the Section 502 Special Provision for Reinforced Concrete Deck Panels which begins, “At the Contractor’s option, the Contractor may design precast concrete deck panels with mild reinforcement and submit the design and shop drawings for the Department’s review. Acceptance or rejection of any mild

reinforcement precast deck panel alternate offered is at the sole discretion of the Department.”

Question: There are 2 (two) Large Deciduous Trees (Item #621.261) listed. I went through the entire bid package several times and cannot find where the species of the trees are listed. I would appreciate it if you could possibly let me know the species so I can forward it to our nursery supplier for pricing.

Response: See the attached Special Provision 621 and the new attached Schedule of Items. Please note the change to Pay Item No. 621.273.

Question: Special Provision Section 502, Structural Concrete, QC/QA, provides for Class A concrete for Struct. Conc. Superstructure Slab Item 502.25, however, the item description provides for “Struct. Conc. Superstructure Slab (Class LP)”. Which class of concrete will be used for Item 502.25?

Response: Class A. Please refer to the revised Section 502, QC/QA Special Provision.

Question: Will Item 403.209, 9.5mm HMA Incidentals be added for the 2” HMA sidewalks shown? Also, will Item 304.10, Agg. Subbase Gravel, be adjusted to include the sidewalks?

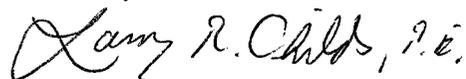
Response: Yes. Pay Item 403.209 has been added to the contract, refer to the above changes. A few pavement item quantities have been adjusted to complete this correction. The quantity for Pay Item 304.10 is unchanged because the original quantity included the sidewalk.

Question: Plan Sheet 52 Of 59, Note 6 states that rebar is incidental to item 502, but item 503 weight seems to include deck. Please clarify.

Response: Note 6 of Sheet # 52 has been removed because it conflicts with the intent to include the superstructure reinforcement for payment.

Consider these changes and information prior to submitting your bid on November 19, 2008.

Sincerely,



FOR

Scott Bickford
Contracts & Specifications Engineer

SCHEDULE OF ITEMS

CONTRACT ID: 012643.00

PROJECT(S): AC-IM-1264(300)X

CONTRACTOR : _____

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

SECTION 0001 PROJECT ITEMS

0010	201.23 REMOVING SINGLE TREE TOP ONLY	1.000 EA				
0020	201.24 REMOVING STUMP	1.000 EA				
0030	202.11 REMOVING PORTLAND CEMENT CONCRETE PAVEMENT	800.000 SY				
0040	202.19 REMOVING EXISTING BRIDGE	LUMP	LUMP			
0050	202.202 REMOVING PAVEMENT SURFACE	1110.000 SY				
0060	203.20 COMMON EXCAVATION	1600.000 CY				
0070	203.25 GRANULAR BORROW	5500.000 CY				
0080	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	4600.000 CY				
0090	206.10 STRUCTURAL EARTH EXCAVATION - PIERS	360.000 CY				
0100	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	1375.000 CY				

MAINE DEPARTMENT OF TRANSPORTATION

PAGE: 2

SCHEDULE OF ITEMS

DATE: 081117

REVISED:

CONTRACT ID: 012643.00

PROJECT(S): AC-IM-1264(300)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	403.207 HOT MIX ASPHALT 19.0 MM HMA	T 385.000				
0120	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	T 360.000				
0130	403.209 HOT MIX ASPHALT 9.5 MM HMA (SIDEWALKS, DRIVES, INCIDENTALS)	T 70.000				
0140	403.213 HOT MIX ASPHALT 12.5 MM HMA BASE	T 270.000				
0150	409.15 BITUMINOUS TACK COAT - APPLIED	G 190.000				
0160	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP	LUMP			
0170	502.239 STRUCTURAL CONCRETE PIERS	LUMP	LUMP			
0180	502.25 STRUCTURAL CONCRETE SUPERSTRUCTURE SLABS	LUMP	LUMP			
0190	502.31 STRUCTURAL CONCRETE APPROACH SLABS	LUMP	LUMP			
0200	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALK	LUMP	LUMP			
0210	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	LB 315000.000				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 012643.00

PROJECT(S): AC-IM-1264(300)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0220	503.13 REINFORCING STEEL, PLACING	315000.000 LB				
0230	503.17 MECHANICAL WELDED SPLICE	160.000 EA				
0240	507.0831 STEEL BRIDGE RAILING, 4 BAR	LUMP	LUMP			
0250	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0260	510.11 SPECIAL DETOUR, PEDESTRIAN TRAFFIC ONLY	LUMP	LUMP			
0270	511.07 COFFERDAM: - ABUTMENT NO. 1	LUMP	LUMP			
0280	511.07 COFFERDAM: - ABUTMENT NO. 2	LUMP	LUMP			
0290	511.07 COFFERDAM: - PIER	LUMP	LUMP			
0300	512.081 FRENCH DRAINS	LUMP	LUMP			
0310	514.06 CURING BOX FOR CONCRETE CYLINDERS	1.000 EA				
0320	515.20 PROTECTIVE COATING FOR CONCRETE SURFACES	485.000 SY				

SCHEDULE OF ITEMS

CONTRACT ID: 012643.00

PROJECT(S): AC-IM-1264(300)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0330	523.52 BEARING INSTALLATION	36.000 EA				
0340	523.5402 LAMINATED ELASTOMERIC BEARINGS, EXPANSION	36.000 EA				
0350	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0360	526.34 PERMANENT CONCRETE TRANSITION BARRIER	4.000 EA				
0370	527.34 WORK ZONE CRASH CUSHIONS	6.000 UN				
0380	535.61 PRESTRESSED STRUCTURAL CONCRETE I-GIRDERS	LUMP	LUMP			
0390	603.159 12 INCH CULVERT PIPE OPTION III	63.000 LF				
0400	603.199 24 INCH CULVERT PIPE OPTION III	305.000 LF				
0410	604.163 ABANDONING CATCH BASIN	1.000 EA				
0420	604.164 REBUILDING CATCH BASIN	1.000 EA				
0430	604.181 ADJUST AND ALTER CATCH BASIN TO LINE AND GRADE	1.000 EA				

MAINE DEPARTMENT OF TRANSPORTATION

PAGE: 5

SCHEDULE OF ITEMS

DATE: 081117

REVISED:

CONTRACT ID: 012643.00

PROJECT(S): AC-IM-1264(300)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0440	604.24 CATCH BASIN TYPE F	1.000 EA				
0450	604.247 CATCH BASIN TYPE F5-C	2.000 EA				
0460	604.249 CATCH BASIN TYPE F6-C	1.000 EA				
0470	604.2495 CATCH BASIN TYPE F8-C	1.000 EA				
0480	605.09 6 INCH UNDERDRAIN TYPE B	145.000 LF				
0490	606.1721 BRIDGE TRANSITION - TYPE 1	4.000 EA				
0500	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	112.500 LF				
0510	606.231 GUARDRAIL TYPE 3C - 15 FOOT RADIUS AND LESS	37.500 LF				
0520	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1.000 EA				
0530	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8.000 EA				
0540	606.366 GUARDRAIL, REMOVE & RESET TYPE 3C	200.000 LF				

SCHEDULE OF ITEMS

CONTRACT ID: 012643.00

PROJECT(S): AC-IM-1264(300)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0550	606.79 GUARDRAIL 350 FLARED TERMINAL	3.000 EA				
0560	607.184 CHAIN LINK SNOW FENCE 3 FOOT	336.000 LF				
0570	607.421 SCREENING FENCE	840.000 LF				
0580	609.31 CURB TYPE 3	710.000 LF				
0590	610.18 STONE DITCH PROTECTION	42.000 CY				
0600	613.319 EROSION CONTROL BLANKET	220.000 SY				
0610	615.0701 LOAM - PLAN QUANTITY	5.000 CY				
0620	618.1411 SEEDING METHOD NUMBER 3 - PLAN QUANTITY	17.000 UN				
0630	619.1401 EROSION CONTROL MIX	205.000 CY				
0640	620.6012 HDPE GEOMEMBRANE	30.000 SY				
0650	621.273 LARGE DECIDUOUS TREE (2 INCH - 2.50 INCH CALIPER) GROUP A	2.000 EA				

SCHEDULE OF ITEMS

CONTRACT ID: 012643.00

PROJECT(S): AC-IM-1264(300)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0660	627.711 WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE (PLAN QUANTITY)	2100.000 LF				
0670	629.05 HAND LABOR, STRAIGHT TIME	40.000 HR				
0680	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20.000 HR				
0690	631.15 ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	20.000 HR				
0700	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	20.000 HR				
0710	634.16 HIGHWAY LIGHTING	LUMP	LUMP			
0720	637.071 DUST CONTROL	LUMP	LUMP			
0730	639.18 FIELD OFFICE TYPE A	1.000 EA				
0740	652.38 FLAGGER	1000.000 HR				
0750	652.381 TRAFFIC OFFICERS	208.000 HR				
0760	652.39 WORK ZONE TRAFFIC CONTROL	LUMP	LUMP			

MAINE DEPARTMENT OF TRANSPORTATION

PAGE: 8

SCHEDULE OF ITEMS

DATE: 081117

REVISED:

CONTRACT ID: 012643.00

PROJECT(S): AC-IM-1264(300)X

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0770	652.41 PORTABLE - CHANGEABLE MESSAGE SIGN	4.000 EA				
0780	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0790	659.101 MOBILIZATION	LUMP	LUMP			
0800	660.21 ON-THE-JOB TRAINING (BID)	1000.000 HR				
	SECTION 0001 TOTAL					
	TOTAL BID					

SPECIAL PROVISION
SECTION 403
HOT MIX ASPHALT

Desc. Of Course	Grad Design.	Item Number	Bit Cont. % of Mix	Total Thick	No. Of Layers	Comp. Notes
<u>Bridge Deck</u>						
Wearing	12.5 mm	403.208	N/A	1.5 in	1	1,2,4,8
Base	12.5 mm	403.213	N/A	1.5 in	1	1,2,4,8
<u>Approach Areas – Mainline & Shoulder</u>						
Wearing	12.5 mm	403.208	N/A	1.5 in	2	4,8
Binder	12.5 mm	403.213	N/A	1.5 in	2	4,8
Base	19.0 mm	403.207	N/A	3.0 in	1	4,8,16
<u>1 1/2" HMA Mill and Resurface Areas</u>						
<u>Mainline & Shoulder Approach</u>						
Wearing	12.5 mm	403.208	N/A	1.5 in	1	4,8
<u>Sidewalks, Drives, Islands & Incidentals</u>						
Wearing	9.5 mm	403.209	N/A	2.0 in	1	2,3,10,14

COMPLEMENTARY NOTES

1. The use of Recycled Asphalt Pavement (RAP) will not be permitted.
2. The density requirements are waived.
3. The design traffic level for mix placed shall be <0.3 million ESALS.
4. The design traffic level for mix placed shall be 0.3 to <3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **50 gyrations.**
8. Section 106.6 Acceptance, (2) Method B.
10. Section 106.6 Acceptance, (2) Method D.
13. A mixture meeting the gradation of 9.5 mm hot mix asphalt may be used at the option of the contractor.
14. A mixture meeting the requirements of section 703.09 Grading 'D', with a minimum PGAB content of 6%, and the limits of Special Provision 401, Table 9 (Drives and Sidewalks) for PGAB content and gradation may be substituted for this item. A job mix formula shall be submitted to the department for approval.
16. Any base or binder mix left exposed to traffic over the winter shall have a layer of 12.5 mm mix substituted for the 19mm mix. If this substitution is made, the specified layers may need to be modified, as approved by the Resident.

Bangor
12643.00
Hammond St/US 1 & RTE 100
Bridge Replacement
November 17, 2008

Tack Coat

A tack coat of emulsified asphalt, RS-1, Item 409.15 shall be applied to any existing pavement at a rate of approximately 0.025 gal/yd², and on milled pavement approximately 0.05 gal/yd², prior to placing a new course. A fog coat of emulsified asphalt shall be applied between shim / intermediate course and the surface course, at a rate not to exceed 0.025 gal/yd².

Tack used between layers of pavement will be paid for at the contract unit price for Item 409.15 Bituminous Tack Coat.

SPECIAL PROVISION
SECTION 502
STRUCTURAL CONCRETE
(QC/QA Acceptance Methods)

CLASS OF CONCRETE	ITEM NUMBER	DESCRIPTION	P	METHOD
A	502.219	Structural Concrete Abut. & Ret. Walls	\$425	A
A	502.239	Structural Concrete Piers	\$425	A
A	502.25	Struct. Conc. Superstructure Slab	\$425	A
A	502.31	Structural Concrete Approach Slab		C
LP	502.49	Struct. Concrete Curbs and Sidewalks	\$475	A
LP	526.34	Permanent Concrete Transition Barrier	\$475	A

P values listed above reflect the price per cubic yard for all pay adjustment purposes.

SPECIAL PROVISION

SECTION 511

COFFERDAMS

(Temporary Earth Support Systems)

Section 511, Cofferdams, is deleted in its entirety and replaced with the following:

511.01 Description

This work shall consist of the complete design, construction, maintenance and removal of all temporary earth support systems including, but not necessarily limited to, cofferdams, caissons, cribs and sheeting, and other related work, including dewatering, required to allow for the excavation of foundation pits; to permit and protect the construction of structural units; to allow for the demolition and/or construction of the concrete abutments, piers, foundations, wingwalls, headwalls, and culverts; removal and/or construction and maintenance of approach roadways; and any other work requiring temporary earth support mandated by OSHA, Subpart P, Excavation Requirements, or required for the maintenance of traffic. The temporary earth support systems shall meet all of the applicable requirements of the Standard Specifications.

511.02 Materials

A minimum of three weeks prior to the start of work, the Contractor shall submit the proposed method of temporary earth support. The submission shall include working drawings and list the type and size of the proposed support, details of construction, calculations and a sequence of operations all to be designed and sealed by a Professional Engineer registered in the State of Maine. This Professional Engineer may be directly employed or otherwise retained by the Contractor. Construction shall not be started on temporary earth support systems until such plans are approved. Approval of the plans shall not relieve the Contractor of the responsibility for the satisfactory functioning of the temporary earth support systems.

Prior to excavating or loading the temporary earth support systems, the Professional Engineer responsible for the design of the temporary earth support systems shall, after inspection of the temporary earth support systems, provide a sealed certification to the Resident that the systems were erected in conformance with the Professional Engineer's plans and design details.

The submission shall also show the Contractor's proposed method of excavation, water diversion and dewatering methods (sumps, wells, seal concrete, or well points) to

minimize the flow of groundwater into the excavation. Such methods should preserve the undisturbed condition of the subgrade and permit foundation construction in-the-dry.

511.03 Temporary Earth Support System Construction

Temporary earth support systems shall, in general, be carried well below the elevation of the bottom of footings, and shall be well braced and as watertight as necessary for the proper construction of the foundation. Unless it is contemplated that a concrete foundation seal will be placed under water, the interior dimensions of temporary earth support systems shall be such as to give sufficient clearance for the construction and inspection of forms and to permit pumping outside of forms. Temporary earth support systems shall be so constructed that water will not come in contact with concrete as required in Section 502, Structural Concrete.

During the placing of seal concrete, the elevation of the water inside the temporary earth support systems shall be controlled to prevent any flow through the concrete.

No timber or bracing shall be used in temporary earth support systems in such a way as to remain in the substructure masonry.

Temporary earth support systems shall be constructed to protect fresh concrete against damage from the sudden rising of the waterbody and to prevent damage by erosion.

Unless otherwise provided, temporary earth support systems, including all sheeting and bracing involved, shall be removed after the completion of the substructure; care being taken not to disturb or otherwise injure the finished masonry.

511.04 Pumping

Pumping from the interior of any foundation enclosure shall be done in such a manner as to prevent any current of water that would carry away or segregate the concrete.

Pumping to dewater a sealed temporary earth support system shall not commence until the seal concrete has set sufficiently to withstand the hydrostatic pressure. In no case will pumping be permitted until a minimum of five days has elapsed since the completion of the installation of the seal concrete, when the temperature of the waterbody outside the temporary earth support system is greater than 4°C [40°F], or a minimum of seven days has elapsed since the completion of the installation of the seal concrete, when the temperature of the waterbody outside the temporary earth support systems is less than 4°C [40°F].

Sediment laden water will not be allowed to leave the Project area. The Contractor shall be required to install appropriate erosion and sedimentation control devices as approved by the Resident. Erosion and sedimentation control devices may include plain riprap, hay bales, silt fence and sedimentation basins.

All water and materials pumped from excavation shall be pumped into a sedimentation basin which is of sufficient volume to detain the pumped water and materials. The water and materials removed from the excavation shall be pumped at a rate that permits infiltration of the water into the earth, preventing any overland flow or direct discharge into a stream or other waterbody.

511.05 Method of Measurement

Cofferdams will be measured as one lump sum unit, as indicated on the plans or called for in the contract.

511.06 Basis of Payment The accepted quantity of cofferdam will be paid for at the contract lump sum price for the respective cofferdam items.

When required, the elevation of the bottom of the footing of any substructure unit may be lowered, without change in the price to be paid for Cofferdam. However, if the average elevation of more than 25% of the area of the excavation is more than 3 feet below the elevation shown on the plans, and if requested by the Contractor, then the entire cost of the cofferdam will be paid in accordance with Section 109.7 – Equitable Adjustments to Compensation, instead of at the contract lump sum price.

All cost of construction, maintaining, and removing a sedimentation basin and pumping or transporting water and other materials to the sedimentation basin will not be paid for directly but will be considered incidental to cofferdam pay item(s).

All cost of related temporary soil erosion and water pollution controls, including inspection and maintenance, will not be paid for directly but will be considered incidental to the cofferdam pay items(s).

No direct payment will be made for Temporary Earth Supports Systems. All cost, regardless of the number of temporary earth support structures required at the site, including full compensation for design, furnishing materials, excavation, installation, removal, tools, equipment and labor necessary to construct, maintain and remove the work in accordance with the Plans or called for in the Contract shall be considered incidental to related contract items.

<u>Pay Item</u>	<u>Pay Unit</u>
511.07 Cofferdam – Abutment #1	Lump Sum
511.07 Cofferdam – Pier	Lump Sum
511.07 Cofferdam – Abutment #2	Lump Sum

SPECIAL PROVISIONS
SECTION 621
LANDSCAPE
(Plant Species Specification and Quantities List)

The following list of items provides the estimated quantities for use on this project. The scientific name of the plant material is provided along with the common name in parenthesis.

The contractor shall follow MDOT Standard Specifications Rev. December, 2002 for landscape materials and installation procedures (sec 621).

The MDOT Landscape Architect or his designee will be available to inspect plant materials and stake the location of plant materials at the time of planting.

In accordance with Section 104.5.9, a separate Performance Bond will not be required for the Landscape portion of this contract. The requirement for a Maintenance Bond for a Two-Year Establishment period will also not be required for this project.

PLANT MATERIALS

ITEM NO	Description	Unit	Quantity	Total
621.273	Large Deciduous Trees 2" - 2 1/2" cal. Group A	Ea.		2
	Acer saccharum (Sugar Maple)		2	

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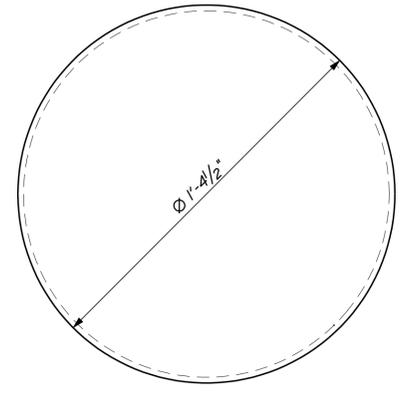
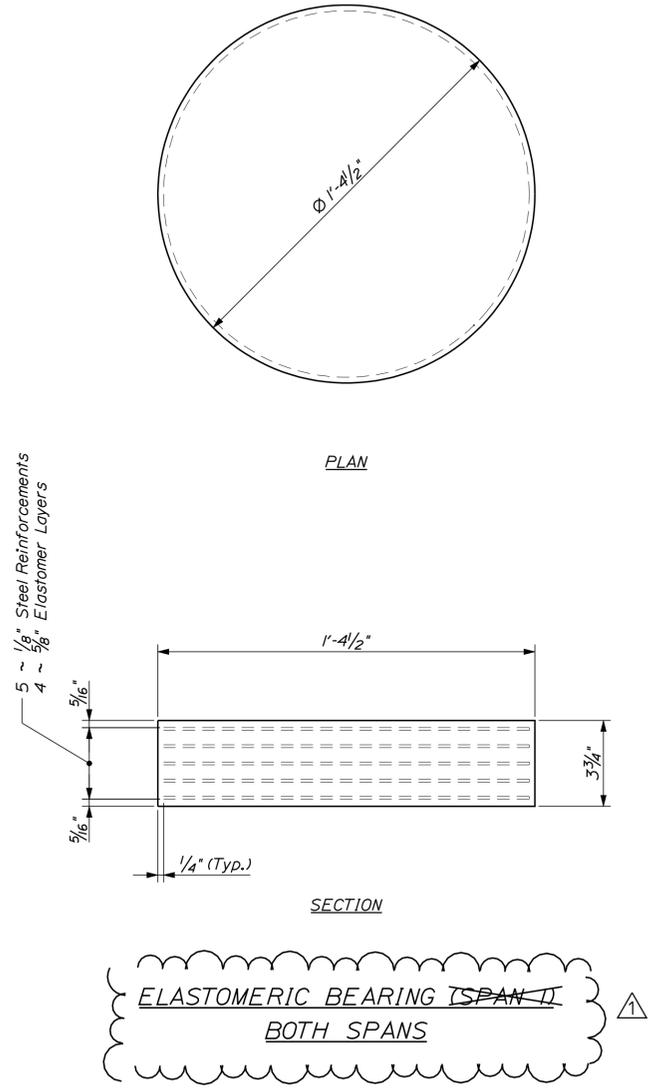
ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	1	EA
201.24	REMOVING STUMP	1	EA
202.11	REM PORT CEM CONC PAVEMENT	800	SY
202.19	REMOVING EXISTING BRIDGE (1200 CY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	1110	SY
203.20	COMMON EXCAVATION	1600	CY
203.25	GRANULAR BORROW	5500	CY
206.082	STR EA EXC-MAJOR STRUCTURES	4600	CY
206.10	STR EARTH EXC - PIERS	360	CY
304.10	AGGR SUBB COURSE - GRAVEL	1375	CY
403.207	HOT MIX ASPHALT 19.0 MM HMA	385	T
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	625	T
403.213	HOT MIX ASPHALT 9.5 MM HMA (INCLD.)	70	T
409.15	BITUMINOUS TACK COAT APPLIED	190	G
502.219	STR CONC ABUT & RET WALL (1190 CY)	1	LS
502.239	STR CONC PIERS (215 CY)	1	LS
502.25	STR CONC SUPERSTR SLAB (370 CY)	1	LS
502.31	STR CONC APPROACH SLAB (62 CY)	1	LS
502.49	STRUCT.CONC.CURBS AND SW (106 CY)	1	LS
503.12	REINF STEEL,FAB & DEL	315000	LB
503.13	REINF STEEL,PLACING	315000	LB
503.17	MECHANICAL WELDED SPLICE	160	EA
507.0831	STEEL BR RAIL, 4 BAR (485 LF)	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (1050 SY)	1	LS
510.11	SPEC DET PED TR ONLY	1	LS
511.07	COFFERDAM - ABUTMENT NO.1	1	LS
511.07	COFFERDAM - PIER	1	LS
511.07	COFFERDAM - ABUTMENT NO. 2	1	LS
512.081	FRENCH DRAINS (300 LF)	1	LS
514.06	CURING BOX FOR CONC CYL	1	EA
515.20	PROT COAT FOR CONC SURFACES	485	SY
523.52	BEARING INSTALLATION	36	EA
523.5402	LAMINATED ELASTOMERIC BEARINGS,EXPANSION	36	EA
526.301	TEMPORARY CONC BARRIER TYPE I (900 LF)	1	LS
526.34	PERMANENT CONC TRANSITION BARRIER	4	EA
527.34	WORK ZONE CRASH CUSHIONS	6	UN
535.61	PRESTRESSED STR CONC I-GIRD (1535 LF)	1	LS
603.159	12" CULV PIPE OPTION III	63	LF
603.199	24" CULV PIPE OPTION III	305	LF
604.163	ABANDONING CATCH BASIN	1	EA
604.164	REBUILDING CATCH BASIN	1	EA
604.181	ADJ & ALT CATCH BASIN LINE&GRD	1	EA
604.24	CATCH BASIN TYPE F	1	EA
604.247	CATCH BASIN TYPE F5-C	2	EA
604.249	CATCH BASIN TYPE F6-C	1	EA
604.2495	CATCH BASIN TYPE F8-C	1	EA
605.09	6" UNDERDRAIN TYPE B	145	LF
606.1721	BRIDGE TRANSITION - TYPE I	4	EA
606.23	GR TY 3C - SINGLE RAIL	112.5	LF
606.231	GR TY 3C - 15 FOOT RADIUS AND LESS	37.5	LF
606.265	TERM END-SGL RAIL-GALV STEEL	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.366	GR REMOVE & RESET TYPE 3C	200	LF
606.79	GUARDRAIL 350 FLARED TERMINAL	3	EA
607.184	CHAIN LINK SNOW FENCE 3'	336	LF
607.421	SCREENING FENCE	840	LF
609.31	CURB TYPE 3	710	LF
610.18	STONE DITCH PROTECTION	42	CY
613.319	EROSION CONTROL BLANKET	220	SY
615.0701	LOAM - PLAN QUANTITY	5	CY
618.1411	SEEDING METHOD NUMBER 3 - PLAN QUANTITY	17	UN
619.1401	EROSION CONTROL MIX	205	CY
620.6012	HDPE GEOMEMBRANE	30	SY
621.273	LG DECID TR (2'-2 1/2" CAL.) GP A	2	EA
627.711	WH OR YELL PAINT PVMT MARKING LINE	2100	LF
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL-PURPOSE EXC (INC OPERATOR)	20	HR
631.15	ROLLER EARTH BASE CRS (INC OP)	20	HR
631.172	TRUCK-LARGE (INC OPERATOR)	20	HR
634.16	HIGHWAY LIGHTING	1	LS
637.071	DUST CONTROL	1	LS
639.18	FIELD OFFICE TYPE A	1	EA
652.38	FLAGGER	1000	HR
652.381	TRAFFIC OFFICERS	208	HR
652.39	WORK ZONE TRAFFIC CONTROL	1	LS
652.41	PORTABLE - CHANGE MESSAGE SIGN	4	EA
656.75	TEMP. SOIL EROS. AND WATER POLL. CONTROL	1	LS
659.101	MOBILIZATION	1	LS
660.21	ON-THE-JOB TRAINING (BID)	1000	HR

GENERAL CONSTRUCTION NOTES

- 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.
- Except as otherwise shown, backfill within ten feet of the back of wingwalls and abutment walls below EL.175.0 shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.
- Place 4 inches of Erosion Control Mix and seed reconstructed sideslopes as shown on the Plans or as directed by the Resident. A small quantity of loam is included in the Contract for incidental use.
- 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, and gutters lined with Stone Ditch Protection shall be constructed at each corner of the bridge after substantial completion of the sideslope, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.
- Protective Coating for Concrete Surfaces shall be applied to the following areas:
 All exposed surfaces of concrete curbs and sidewalks, Fascias down to the drip notch, All exposed surfaces of Concrete Transition Barriers, Top of abutment bridgeseats and to 12 inches below the top of bridgeseats on the back side, Back of end diaphragms
- Bidders and Contractors may obtain a copy of the existing bridge plans by faxing a Request for Information to the Bid Contact Person. 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.
- Bidders and Contractors may obtain a copy of the "Geotechnical Design Report for Hammond Street/ I-95 Bridge", MaineDOT Soils Report No. 2006-20C, dated June 2006, by faxing a Request for Information to the Bid Contact Person.
- 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.
- If a design change results in changes to the estimated quantities for a Lump Sum pay item, price adjustments to the affected Lump Sum item may be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation. Lump Sum pay items may be eliminated from the Contract in accordance with Standard Specifications Section 109.2 Elimination of Items. Otherwise, Lump Sum pay items will be paid for at the Contract bid amount with no addition or reduction to the Contractor if actual quantities are different from the MaineDOT provided estimated quantities.
- At least three weeks prior to the start of demolition work, the Contractor shall submit a Stage Removal and Construction Plan prepared and stamped by a licensed engineer. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Stage Removal and Construction Plan for appropriateness and completeness. The submitted plan must provide for safe support of partially deconstructed structures under traffic loadings, such as the three existing pier caps, and for proper disposal of all materials in the existing bridge, such as the painted beams and abandoned gas line. Note that both vertical and lateral bracing of the partially removed pier caps may be required for stage construction live loads. This work must meet the requirements of the Special Provision for Removing Existing Bridge, Standard Specification Subsection 202.19. Complete payment for all work described in this note is made under Pay Item * 202.19, Removing Existing Bridge.

- The existing bridge shall be removed by and become the property of the Contractor. The steel portions of the existing bridge are 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.
- The Contractor shall maintain a five foot wide separate pedestrian travel way at all times, except as required for the removal of the southerly portion of the superstructure and safe erection of new Girders #1 through #9, as described in the Section 107 Special Provision for Work Times and Supplemental Liquidated Damages.
- The use of prestressed deck panels is not allowed. The Contractor is provided the option of submitting a design and shop drawings for precast concrete deck panels with mild steel reinforcement to the Department for its review. Refer to Special Provision Section 502, Reinforced Concrete Deck Panels.
- Depending on the Contractor's methods for maintaining the pedestrian travelway, the location of the stage construction deck joint may allow space for lap splicing the transverse deck reinforcement. The pay item for mechanical couplers is included in the contract for stage construction joints in the abutment footings, pier footing and the pier cap. Any other mechanical couplers used shall be considered incidental to the contract.
- Existing Plans and Geotechnical information may be accessed at the following web address:
<http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php>

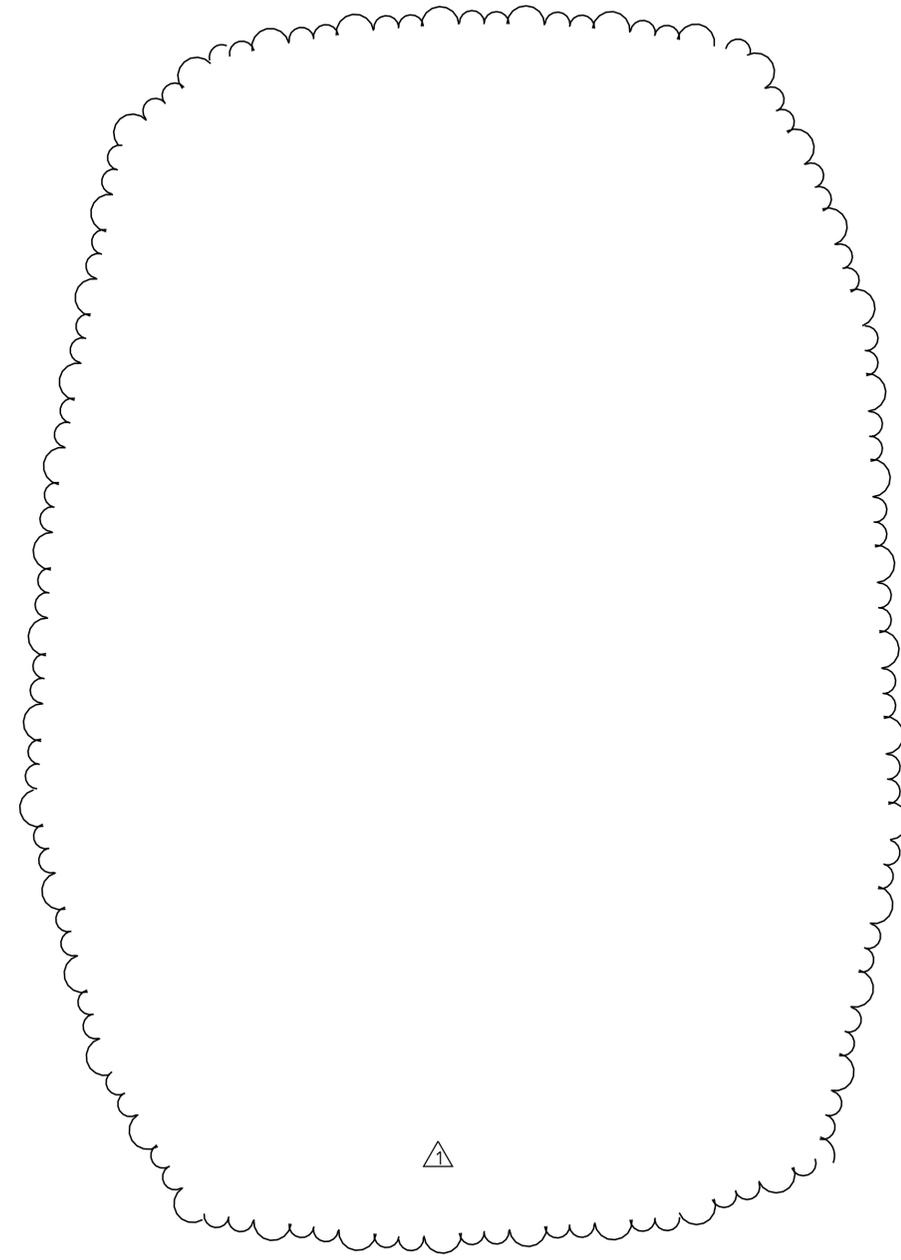
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
AC-IM-1264(300)X		BRIDGE NO. 5794	
PIN 12643.00		BRIDGE PLANS	
HAMDON STREET INTERSTATE 95		PENOBSCOT COUNTY	
BANGOR		ESTIMATED QUANTITIES AND GENERAL CONSTRUCTION NOTES	
SHEET NUMBER		2	
OF 59			



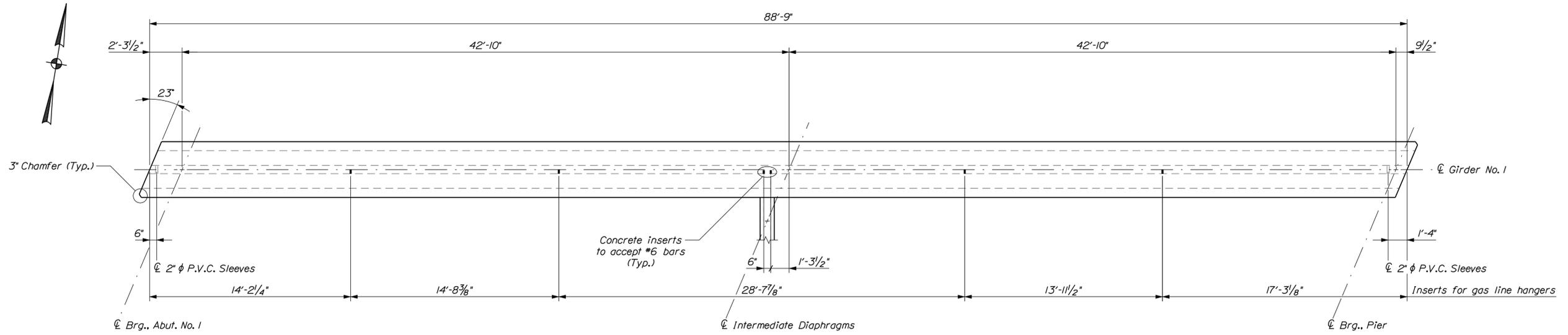
ELASTOMERIC BEARING ~~SPAN 1~~
BOTH SPANS

ELASTOMERIC BEARING NOTES

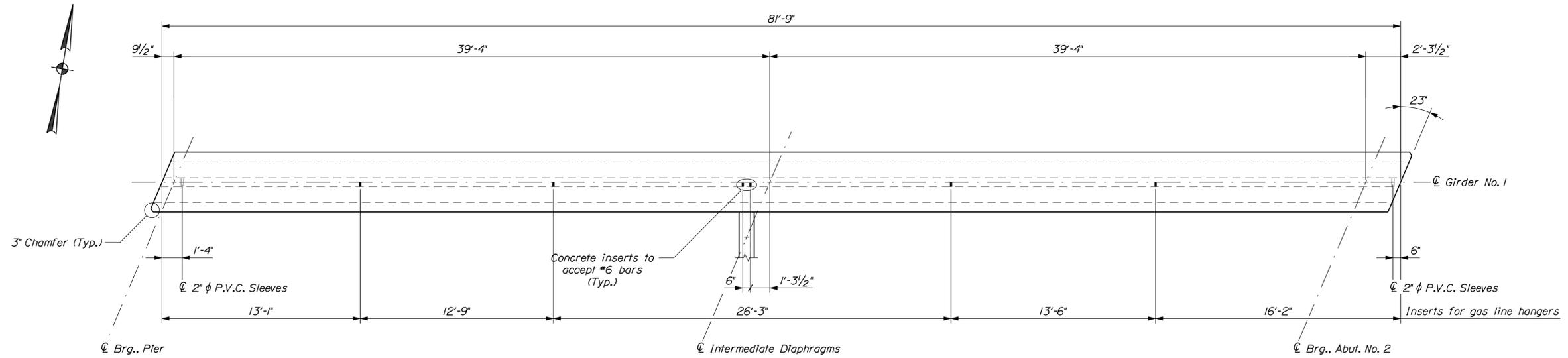
1. The shear modulus of the elastomer shall be between 80 and 175 psi.
2. Vulcanizing of the elastomer to the steel plates shall be done during the primary mold process.
3. All bearings shall be marked prior to shipping. The marks shall include the bearing location on the bridge and a direction arrow that points upstation. All marks shall be permanent and shall be visible after the bearing is installed.
4. Bearings shall be covered during transit.
5. The bearings are designed so that the superstructure may be erected when the ambient air temperature is within the range of 65 °F and 90 °F. If the ambient air temperature is outside this range, the bearings shall be reset as directed by the Resident.



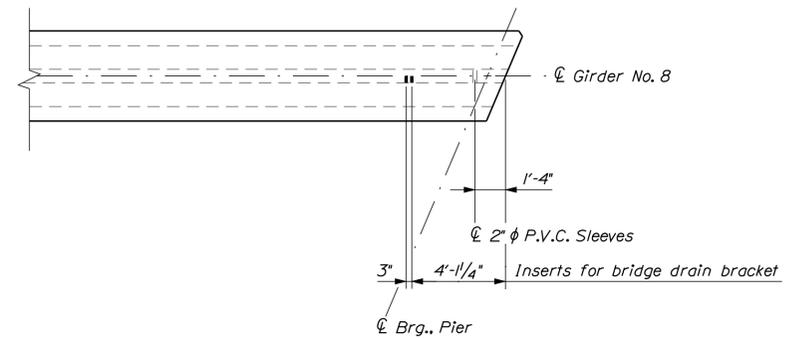
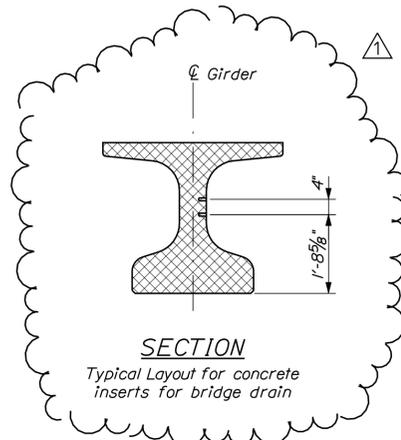
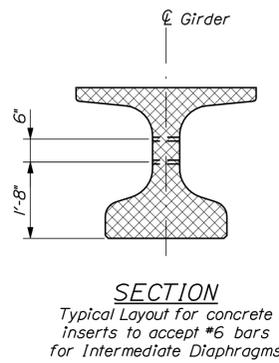
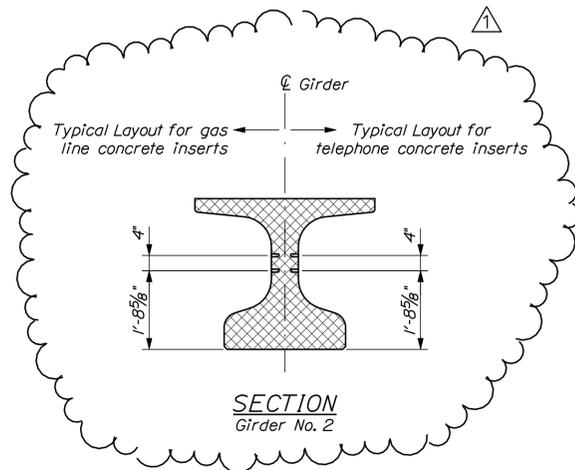
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BRIDGE NO. 5794		PIN 12643.00	
BRIDGE PLANS			
HAMMOND STREET INTERSTATE 95 PENOBSCOT COUNTY	BANGOR BEARINGS		
SHEET NUMBER		DATE	
37		BY D. SHAW	DATE AUG 2008
OF 59		SIGNATURE	P.E. NUMBER
		REVISIONS 1 - D.E. Δ Elastomeric Bearing Span 2 Removed	11-15-2008
		REVISIONS 2	DATE
		REVISIONS 3	DATE
		FIELD CHANGES	DATE



PLAN - GIRDER NO. 1 - SPAN NO. 1
Location of sleeves and concrete inserts for utilities and diaphragms



PLAN - GIRDER NO. 1 - SPAN NO. 2
Location of sleeves and concrete inserts for utilities and diaphragms



PLAN - GIRDER NO. 8 - SPAN NO. 1

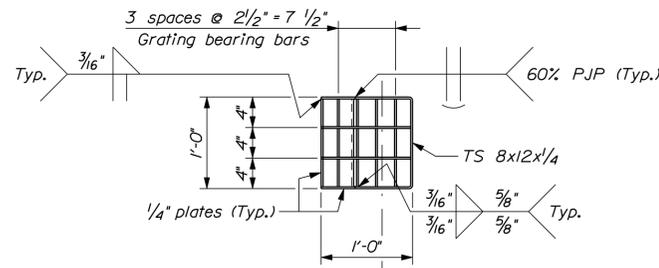
DESIGN DETAILED	D. ANDERSON	DATE	AUG 2008
CHECKED/REVIEWED	R. BULLGER	BY	D. SHAW
DESIGNS DETAILED		DESIGN REVIEWED	
REVISIONS 1 - D.E.S. Δ	LOCATION OF CONCRETE INSERTS REVISION	SIGNATURE	
REVISIONS 2		P.E. NUMBER	
REVISIONS 3		DATE	NOV 2008
FIELD CHANGES			

PROJ. MANAGER	D. ANDERSON
DESIGN DETAILED	D. ANDERSON
CHECKED/REVIEWED	R. BULLGER
DESIGNS DETAILED	
REVISIONS 1 - D.E.S. Δ	LOCATION OF CONCRETE INSERTS REVISION
REVISIONS 2	
REVISIONS 3	
FIELD CHANGES	

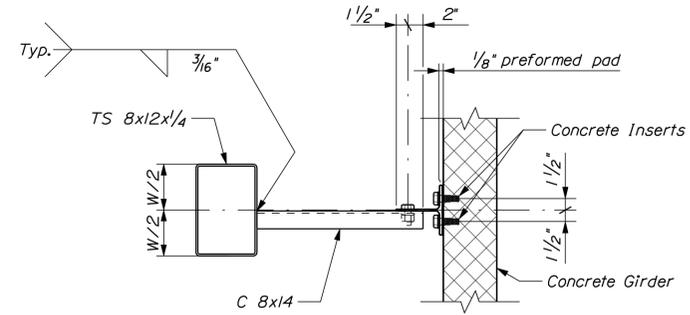
HAMMOND STREET
INTERSTATE 95
PENOBSCOT COUNTY
BANGOR
PRECAST GIRDER NO. 1 & 8
LOCATION OF UTILITY INSERTS

SHEET NUMBER

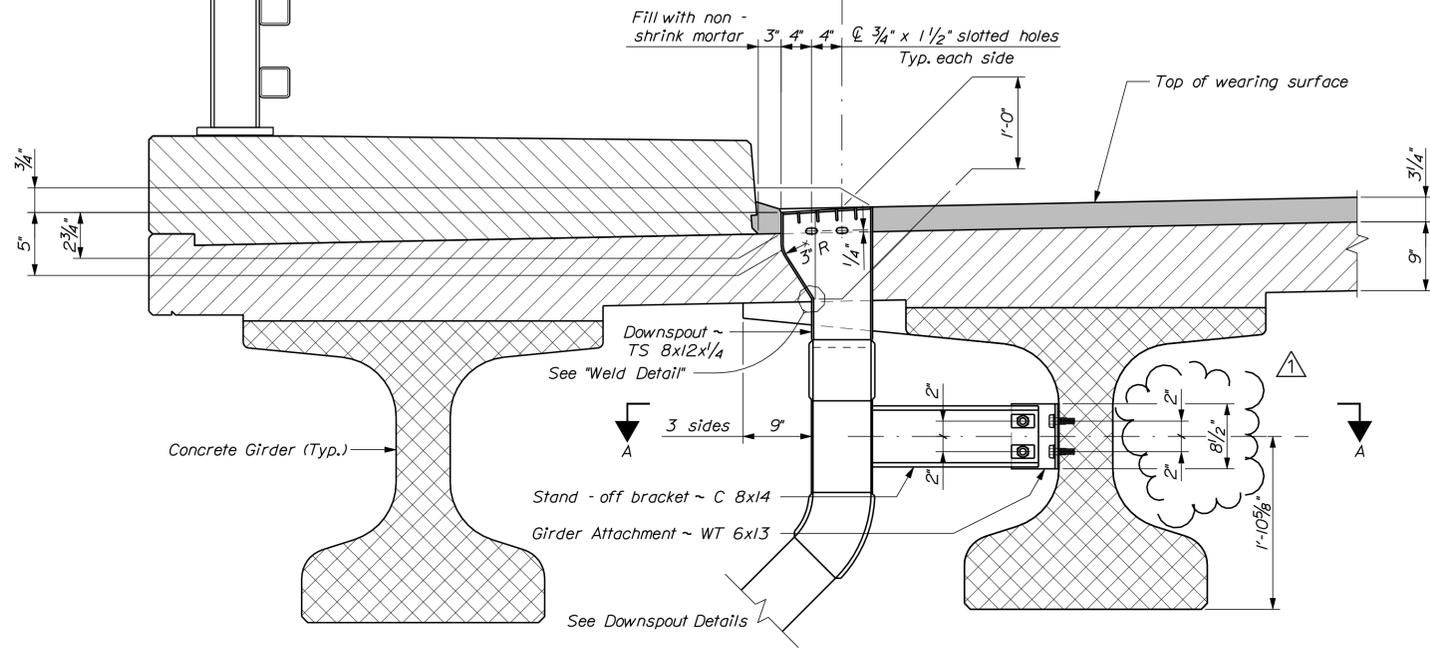
43



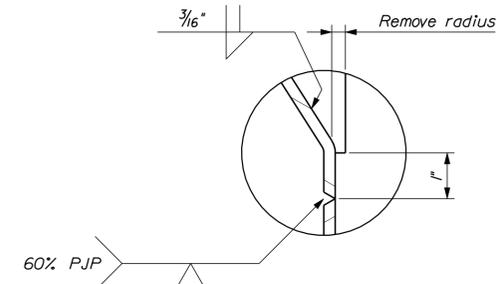
BRIDGE DRAIN PLAN



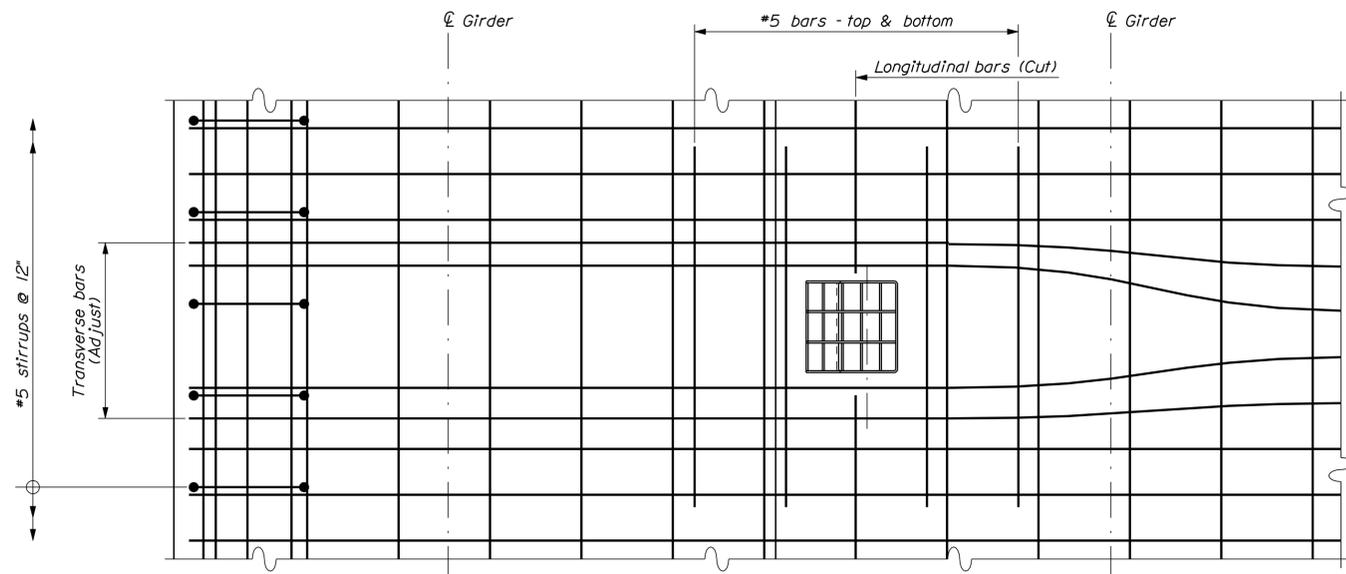
SECTION A-A



BRIDGE DRAIN ELEVATION



WELD DETAIL



SLAB REINFORCING AT DRAIN

BRIDGE DRAIN NOTES

1. Bridge and pipe drains shall meet the requirements of Subsection 711.04 of the Standard Specifications except as noted.
2. Locate pipe drains at both curbs at the Abutment No. 2 end of the deck slab, placed so as to clear bridge seats by a minimum of 12 inches.
3. Grating shall be a commercial heavy - duty grating with 1 1/2"x1/4" bearing bars and 3/8" inch ϕ cross bars.
4. Preformed pads shall meet the requirements of Subsection 703.13 of the Standard Specifications.
5. The WT 6x13 girder attachment shall conform to ASTM A 709/A 709M, Grade 250 and shall be cleaned and galvanized to the same specifications as the remainder of the bridge drain.
6. Bolted connections shall be made using 7/8" galvanized H.S. bolts. To facilitate erection, holes shall be slotted vertically in the "WT" girder attachment and horizontally in the "C" and "L" stand - off brackets. Plate washers shall be provided for both sides of slotted hole connections.
7. Payment of the lump sum price for Item No. 502.25, Structural Concrete Superstructure Slab will be full compensation for furnishing and installing all bridge drains, including pipe downspouts, mounting brackets, attachments, and bolts in addition to the other items described in the Standard Specifications.

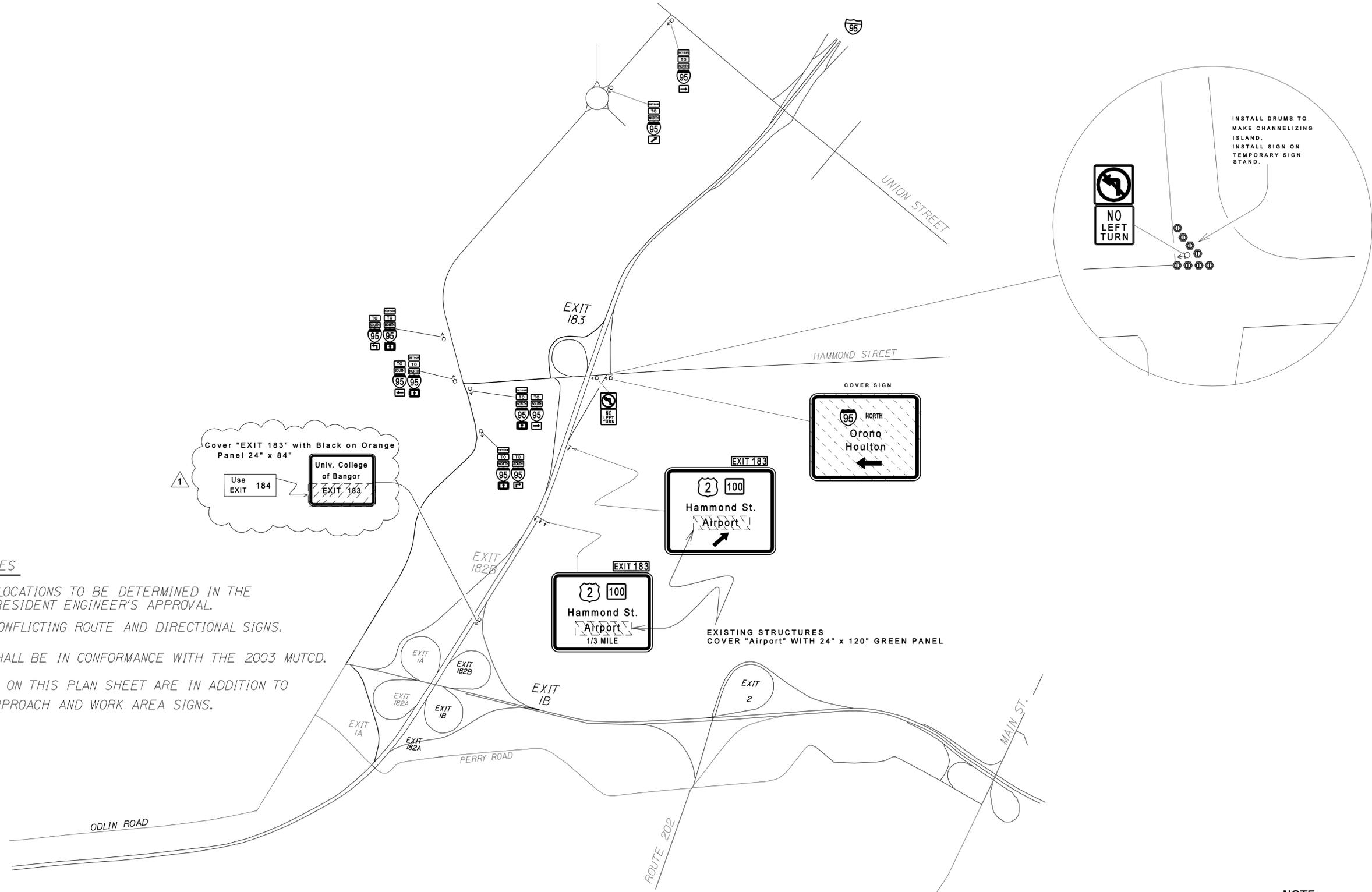
STATE OF MAINE	BRIDGE PLANS
DEPARTMENT OF TRANSPORTATION	PIN 12643.00
AC-IM-1264(300)X	BRIDGE NO. 5794

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
D. Anderson	D. SHAW	AUG 2008			
DESIGN-DETAILED	R. BULLGER				
CHECKED-REVIEWED					
DESIGN-DET FILED 02					
DESIGN-DET FILED 03					
REVISIONS 1 - D.E. SE	Bolt Layout Revised	Nov. 2008			
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

HAMMOND STREET	PENOBSCOT COUNTY
INTERSTATE 95	
BANGOR	BRIDGE DRAINS

SHEET NUMBER
56
OF 59

Hammond Street Bridge Detour Signing



GENERAL NOTES

- 1) EXACT SIGN LOCATIONS TO BE DETERMINED IN THE FIELD WITH RESIDENT ENGINEER'S APPROVAL.
- 2) COVER ALL CONFLICTING ROUTE AND DIRECTIONAL SIGNS.
- 3) ALL SIGNS SHALL BE IN CONFORMANCE WITH THE 2003 MUTCD.
- 4) SIGNS SHOWN ON THIS PLAN SHEET ARE IN ADDITION TO STANDARD APPROACH AND WORK AREA SIGNS.

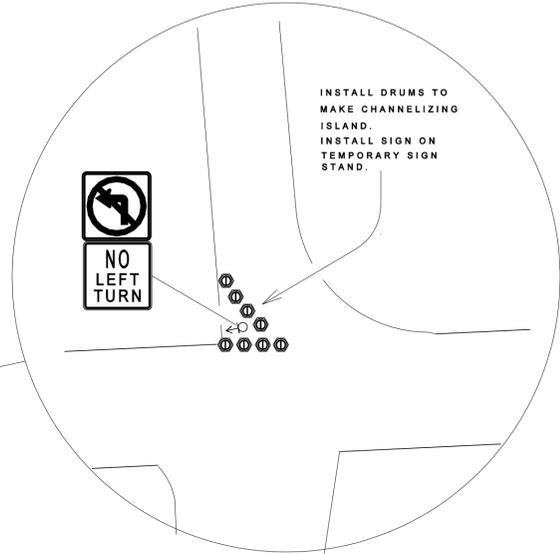
1
Cover "EXIT 183" with Black on Orange Panel 24" x 84"
Use EXIT 184
Univ. College of Bangor
EXIT 183

COVER SIGN
95 NORTH
Orono
Houlton
←

EXIT 183
2 100
Hammond St.
Airport
1/3 MILE

EXIT 183
2 100
Hammond St.
Airport

EXISTING STRUCTURES
COVER "Airport" WITH 24" x 120" GREEN PANEL



NOTE:
THIS PLAN IS
NOT TO SCALE

AC-IM-1264(300)X PIN 12643.00

BANGOR
HAMMOND ST. OVER I-95
TRAFFIC CONTROL PLAN

SHEET NUMBER

59

OF 59

STATE OF MAINE	DEPARTMENT OF TRANSPORTATION
APPROVED	DATE
COMMISSIONER:	CHIEF ENGINEER:

PROJ. MANAGER	D. Anderson	By	D. Hanks	DATE	Oct. 2008
DESIGN-DETAILED	D. Hanks	CHECKED-REVIEWED	A. Allen	SIGNATURE	
DESIGN-DETAILED2		DESIGN-DETAILED3		P. E. NUMBER	Nov. 2008
REVISIONS 1	D. Hanks - D. Stow	REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					