



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

JOHN ELIAS BALDACCI  
GOVERNOR

DAVID A. COLE  
COMMISSIONER

April 23, 2010  
Subject: **Westbrook**  
Federal Project No's: NH-1523(400) &  
STP-1311(800)X  
State Pin No's: 015234.00 & 013118.00  
**Amendment No. 2**

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 4 thru 15), **REMOVE** the "SCHEDULE OF ITEMS", 12 pages dated 100326 and **REPLACE** with the attached new "SCHEDULE OF ITEMS", 12 pages dated 100422.

In the Bid Book (pages 76 and 77), **REMOVE** "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT", 2 pages dated March 22, 2010 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT", 2 pages dated April 14, 2010.

In the Bid Book (page 78), **REMOVE** "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT", 1 page dated March 8, 2010 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT", 1 page dated April 14, 2010

In the Bid Book (pages 79 thru 81), **REMOVE** "SPECIAL PROVISIONS, SECTION 502, STRUCTURAL CONCRETE, COLORED PAVEMENT", 3 pages dated January 16, 2009 and **REPLACE** with the attached new "SPECIAL PROVISIONS, SECTION 502, STRUCTURAL CONCRETE, COLORED PAVEMENT", 3 pages dated April 22, 2010.

In the Bid Book (page 90), "SPECIAL PROVISION, SECTION 604, MANHOLES AND CATCH BASINS", Pay Item 604.154; **CHANGE** "70" Manhole" to read "72" Manhole". Make this change in pen and ink.



PRINTED ON RECYCLED PAPER

In the Bid Book (pages 101 and 102), **REMOVE** ‘SUPPLEMENTAL SPECIFICATIONS, SECTION 634, HIGHWAY LIGHTING’, 2 pages dated January 28, 2010 and **REPLACE** with the attached new ‘SUPPLEMENTAL SPECIFICATIONS, SECTION 634, HIGHWAY LIGHTING’, 2 pages dated April 22, 2010.

In the Bid Book (page 108), “SUPPLEMENTAL SPECIFICATIONS, SECTION 639, ENGINEERING FACILITIES”, **CHANGE** the quantity of Folding Chairs from “6” to read “**10**”. Make this change in pen and ink.

In the Bid Book (page 123), **REMOVE** “SPECIAL PROVISIONS, SECTION 645, Traffic Signals”, 1 page dated January 28, 2010 and **REPLACE** with the attached new “SPECIAL PROVISIONS, SECTION 645, Traffic Signals”, 1 page dated April 15, 2010.

In the Bid Book (page 135), **REMOVE** ‘SUPPLEMENTAL SPECIFICATIONS, SECTION 801, TEMPORARY WILLIAM CLARKE DRIVE DETOUR’, 1 page dated January 28, 2010 and **REPLACE** with the attached new ‘SUPPLEMENTAL SPECIFICATIONS, SECTION 801, TEMPORARY WILLIAM CLARKE DRIVE DETOUR’, 1 page dated April 15, 2010

In the Plans, **REMOVE** Plan Sheets 44 of 105 and 45 of 105 and **REPLACE** with the attached new Plan Sheets 44 of 105 and 45 of 105.

NOTE: Replacement plan sheet will be FedExed or mailed to plan holders who purchased plans in the size and quantity ordered.

Make the following **CHANGES** to the plans in pen and ink for **PIN 15234.00, Westbrook William Clark Drive:**

**NOTE** - All reference to F basins should read F4, F5, etc NOT F5-A. F5-C are Cascade Grates. F4, F5 are Bar Grates.

**SHEET 5 OF 105, ESTIMATED QUANTITIES;**

Item #613.319 - EROSION CONTROL BLANKET, **CHANGE** the UNIT from CY to **SY**.

Item #652.36 - MTCD, **CHANGE** the QUANTITY from 300 CD to **425** CD.

Item #604.092 - CATCH BASIN TYPE B1-C, **CHANGE** the QUANTITY from 11 EA to read **8 EA** .

Item #604.245 - CATCH BASIN TYPE F4-C, **CHANGE** the QUANTITY from 11 EA to read **8 EA**.

Item #604.247 - CATCH BASIN TYPE F5-C, **CHANGE** the QUANTITY from 19 EA to read **15 EA**.

Item #604.249 - CATCH BASIN TYPE F6-C, **CHANGE** the QUANTITY from 6 EA to read **5 EA**.

**ADD** the following items to the “ESTIMATED QUANTITIES”

Item # **604.09 - CATCH BASIN TYPE B1 – 3 - EA**

- Item # 604.244 - CATCH BASIN TYPE F4 - 3 - EA
- Item # 604.246 - CATCH BASIN TYPE F5 - 4 - EA
- Item # 604.248 - CATCH BASIN TYPE F6 - 1 - EA
- Item # 645.108 - DEMOUNT POLE - 76 - EA
- Item # 645.118 - REINSTALL POLE - 28 - EA

SHEET 5 OF 105, GENERAL NOTES, **ADD** the following to the end of note number 33; **“All reference in these plans to coring existing catch basins and manholes shall mean cutting into the existing structure as approved by the Resident.”**

SHEET 5 OF 105, GENERAL NOTES, **ADD** the following note: **“55. Any cutting or trimming necessary of curb to be reset, as determined by the Resident, will be incidental to the reset curb items.”**

SHEET 5 OF 105, GENERAL NOTES, **ADD** the following note: **“56. Item 304.10 Aggregate Subbase Course - Gravel shall meet the requirements of Section 703.06, Type D.”**

SHEET 6 OF 105, make the following **CHANGES** to “CATCH BASIN TOP INSTALLATION”

**DELETE**, in its entirety, note 2. that begins; “Grates are not to be depressed ...”  
 Details TYPE “A” and TYPE “B”, **DELETE** references to “NORMAL GUTTER GRADE” FROM EACH DETAIL.

SHEET 8 OF 105, **CHANGE** note 4. to read as follows; **“Surplus curbing removed, but not required to be reset shall become the property of the City of Westbrook, Any remaining curb shall be delivered to Westbrook Public Service on Saco St. Curb that is not suitable for reuse shall be disposed of by the contractor. Payment shall be incidental to the curb items.”**

SHEET 16 OF 105, **ADD** the following to note 5; **“Portland Water District already complete.”**

SHEET 16 OF 105, **ADD** the following note: **“10. All connections to existing drainage shall be made of the same pipe material or approved equal.”**

SHEET 33 OF 105, GENERAL TRAFFIC SIGNAL NOTES, **ADD** the following to the end of the first paragraph of the note 22; **“The existing lighting system and signal equipment, shall be delivered to the Westbrook Public Service on Saco St. or to another designated area within the City.”**

SHEET 57 OF 105, CONSTRUCTION SEQUENCING – GENERAL, **ADD** the following to the beginning of note 2.; **“Temporarily adjusted ...”**

SHEET 57 OF 105, STAGE 1 SCOPE OF WORK, **ADD** the following note; “**3. Removal of the existing traffic control signals and lighting systems or lights including concrete foundations shall be incidental to the related items.**”

The following questions have been received:

**Question:** Sheet 2 of 102, William Clarke Boulevard normal sections show 2” of mill & overlay on the left side of the island and 3” of mill & overlay on the right side of the island. Is this correct?

**Response:** No, intent is for 3” milled both sides of median.

**Question:** Sheet 69 of 105 shows MH-5 & 6 Type D2 with a sump, is this correct?

**Response:** Yes, sumps in manholes in lieu of an invert.

**Question:** Item 802.202, Rebuild Catch Existing Sewer Structure at Central Street:

- a. What type of flow currently goes through this structure?
- b. Will the 2 – 6’x4’ internal structures extend to finish grade?
- c. If need be, where can we bypass pump the flowage?

**Response:** Currently, the flow in the structure is stormwater and is estimated to be approximately 2 cfs on dry days. The closest bypass pumping location is Brackett Street. The structures would need to be brought to the surface or capped with concrete with fill over. Since the egg line is 4.5’ high, the structures would need to be this size at a minimum.

Additionally, the 48” pipe into the structure is approximately 4’ offset from the outgoing egg line. Therefore, the pipe in between the two proposed structures will need to make up the offset in alignment.

**Question:** Can the “Zip Strip” control joint detail shown on Sheet 6 be changed to a sawcut joint?

**Response:** Yes, a sawcut joint would be acceptable in lieu of the zipstrip.

**Question:** Is there a construction of control joint detail to be used in the areas that are going to be stamped concrete median?

**Response:** Special Provision 502 Colored Pavement states in paragraph 502.08 that no construction joints will be allowed. Control joints or sawcut joints shall be placed every 10 feet.

Consider these changes and information prior to submitting your bid on April 28, 2010.

Sincerely,

A handwritten signature in dark ink, appearing to read "S. Bickford" followed by "FOR" in a separate, slightly larger and more distinct script.

Scott Bickford  
Contracts & Specifications Engineer

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 013118.00

PROJECT(S): STP-1311(800)X  
NH-1523(400)

CONTRACTOR : \_\_\_\_\_

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

SECTION 0001 PROJECT ITEMS

0010	202.15 REMOVING MANHOLE OR CATCH BASIN	5.000 EA				
0020	202.202 REMOVING PAVEMENT SURFACE	18000.000 SY				
0030	203.20 COMMON EXCAVATION	22540.000 CY				
0040	206.061 STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	50.000 CY				
0050	304.09 AGGREGATE BASE COURSE - CRUSHED	2750.000 CY				
0060	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	12590.000 CY				
0070	403.207 HOT MIX ASPHALT 19.0 MM HMA	5600.000 T				
0080	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	3750.000 T				
0090	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	1790.000 T				

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			DOLLARS	CTS	DOLLARS	CTS
0100	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	3750.000 T				
0110	409.15 BITUMINOUS TACK COAT - APPLIED	1702.000 G				
0120	502.341 STRUCTURAL CONCRETE ROADWAY MEDIAN	60.000 CY				
0130	502.35 STRUCTURAL CONCRETE, STAMPED COLORED CONCRETE PAVEMENT	1275.000 SY				
0140	603.15 12 INCH CULVERT PIPE OPTION I	26.000 LF				
0150	603.159 12 INCH CULVERT PIPE OPTION III	1020.000 LF				
0160	603.165 15 INCH REINFORCED CONCRETE PIPE CLASS III	6.000 LF				
0170	603.17 18 INCH CULVERT PIPE OPTION I	15.000 LF				
0180	603.205 30 INCH REINFORCED CONCRETE PIPE CLASS III	9.000 LF				
0190	603.209 30 INCH CULVERT PIPE OPTION III	81.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0200	604.072 CATCH BASIN TYPE A1-C	18.000 EA				
0210	604.09 CATCH BASIN TYPE B1	3.000 EA				
0220	604.092 CATCH BASIN TYPE B1-C	8.000 EA				
0230	604.15 MANHOLE	10.000 EA				
0240	604.154 72 INCH MANHOLE	6.000 EA				
0250	604.16 ALTERING CATCH BASIN TO MANHOLES	39.000 EA				
0260	604.164 REBUILDING CATCH BASIN	12.000 EA				
0270	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	22.000 EA				
0280	604.182 CLEAN EXISTING CATCH BASIN AND MANHOLE	10.000 EA				
0290	604.244 CATCH BASIN TYPE F4	3.000 EA				
0300	604.245 CATCH BASIN TYPE F4-C	8.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0310	604.246 CATCH BASIN TYPE F5	4.000 EA				
0320	604.247 CATCH BASIN TYPE F5-C	15.000 EA				
0330	604.248 CATCH BASIN TYPE F6	1.000 EA				
0340	604.249 CATCH BASIN TYPE F6-C	5.000 EA				
0350	605.09 6 INCH UNDERDRAIN TYPE B	168.000 LF				
0360	605.11 12 INCH UNDERDRAIN TYPE C	470.000 LF				
0370	606.363 GUARDRAIL REMOVE AND DISPOSE	365.000 LF				
0380	607.24 REMOVE AND RESET FENCE	104.000 LF				
0390	608.26 CURB RAMP DETECTABLE WARNING FIELD	1056.000 SF				
0400	609.11 VERTICAL CURB TYPE 1	1400.000 LF				
0410	609.12 VERTICAL CURB TYPE 1 - CIRCULAR	425.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0420	609.237 TERMINAL CURB TYPE 1 - 7 FOOT	32.000 EA				
0430	609.2371 TERMINAL CURB TYPE 1- 7 FT - CIRCULAR	49.000 EA				
0440	609.31 CURB TYPE 3	1080.000 LF				
0450	609.34 CURB TYPE 5	6725.000 LF				
0460	609.35 CURB TYPE 5 - CIRCULAR	225.000 LF				
0470	609.38 RESET CURB TYPE 1	9400.000 LF				
0480	609.40 RESET CURB TYPE 5	950.000 LF				
0490	610.08 PLAIN RIPRAP	225.000 CY				
0500	613.319 EROSION CONTROL BLANKET	100.000 SY				
0510	615.07 LOAM	2580.000 CY				
0520	618.13 SEEDING METHOD NUMBER 1	153.000 UN				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0530	619.12 MULCH	153.000 UN				
0540	621.201 MEDIUM DECIDUOUS TREE (2 INCH - 2.50 INCH CALIPER) GROUP A	16.000 EA				
0550	621.279 LARGE DECIDUOUS TREE (2.50 INCH - 3 INCH CALIPER) GROUP A	161.000 EA				
0560	621.409 DWARF EVERGREENS (2.50 FOOT - 3 FOOT) GROUP C	30.000 EA				
0570	621.546 DECIDUOUS SHRUBS (2 FOOT - 3 FOOT) GROUP A	97.000 EA				
0580	621.71 HERBACEOUS PERENNIALS GROUP A	956.000 EA				
0590	621.80 ESTABLISHMENT PERIOD	LUMP	LUMP			
0600	626.11 PRECAST CONCRETE JUNCTION BOX	46.000 EA				
0610	626.15 ELECTRICAL SERVICE BOX	2.000 EA				
0620	626.21 METALLIC CONDUIT	7600.000 LF				
0630	626.22 NON-METALLIC CONDUIT	7420.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0640	626.31 18 INCH FOUNDATION	18.000 EA				
0650	626.32 24 INCH FOUNDATION	10.000 EA				
0660	626.33 30 INCH FOUNDATION	7.000 EA				
0670	626.341 LIGHT STANDARD FOUNDATION	73.000 EA				
0680	626.35 CONTROLLER CABINET FOUNDATION	8.000 EA				
0690	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	30500.000 LF				
0700	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	13900.000 SF				
0710	627.76 TEMPORARY PVMT. MARK LINE, W OR YELLOW	LUMP	LUMP			
0720	627.77 REMOVING PAVEMENT MARKINGS	8000.000 SF				
0730	629.05 HAND LABOR, STRAIGHT TIME	105.000 HR				
0740	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	20.000 HR				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0750	631.11 AIR TOOL (INCLUDING OPERATOR)	40.000 HR				
0760	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	45.000 HR				
0770	631.13 BULLDOZER (INCLUDING OPERATOR)	10.000 HR				
0780	631.133 SKID STEER (INCLUDING OPERATOR)	10.000 HR				
0790	631.14 GRADER (INCLUDING OPERATOR)	10.000 HR				
0800	631.15 ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR )	10.000 HR				
0810	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	45.000 HR				
0820	631.18 CHAIN SAW RENTAL (INCLUDING OPERATOR)	10.000 HR				
0830	631.20 STUMP CHIPPER (INCLUDING OPERATOR)	10.000 HR				
0840	631.22 FRONT END LOADER (INCLUDING OPERATOR)	10.000 HR				
0850	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	40.000 HR				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0860	634.16 HIGHWAY LIGHTING	LUMP	LUMP			
0870	634.2101 TYPE A LIGHT STANDARD	EA 36.000				
0880	634.2102 TYPE B LIGHT STANDARD	EA 37.000				
0890	639.18 FIELD OFFICE TYPE A	EA 1.000				
0900	643.80 TRAFFIC SIGNALS AT HANNAFORD	LUMP	LUMP			
0910	643.80 TRAFFIC SIGNALS AT MAIN ST.	LUMP	LUMP			
0920	643.80 TRAFFIC SIGNALS AT MECHANIC ST.	LUMP	LUMP			
0930	643.80 TRAFFIC SIGNALS AT SPRING ST.	LUMP	LUMP			
0940	643.80 TRAFFIC SIGNALS AT STROUDWATER ST.	LUMP	LUMP			
0950	643.80 TRAFFIC SIGNALS AT WESTBROOK ART.	LUMP	LUMP			
0960	643.807 LIGHTED CROSSWALKS	EA 2.000				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0970	643.86 TRAFFIC SIGNAL LOOP DETECTORS	50.000 EA				
0980	643.90 INTERCONNECT WIRE BETWEEN	LUMP	LUMP			
0990	643.91 MAST ARM POLE	17.000 EA				
1000	643.92 PEDESTAL POLE	18.000 EA				
1010	645.106 DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	77.000 EA				
1020	645.108 DEMOUNT POLE	76.000 EA				
1030	645.116 REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	29.000 EA				
1040	645.118 REINSTALL POLE	28.000 EA				
1050	645.271 REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS, TYPE I	500.000 SF				
1060	652.30 FLASHING ARROW BOARD	2.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1070	652.31 TYPE I BARRICADE	25.000 EA				
1080	652.312 TYPE III BARRICADE	2.000 EA				
1090	652.33 DRUM	250.000 EA				
1100	652.34 CONE	250.000 EA				
1110	652.35 CONSTRUCTION SIGNS	678.000 SF				
1120	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	425.000 CD				
1130	652.38 FLAGGER	8800.000 HR				
1140	652.381 TRAFFIC OFFICER	250.000 HR				
1150	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	4.000 EA				
1160	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
1170	658.20 ACRYLIC LATEX COLOR FINISH, GREEN	40.000 SY				

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1180	659.10 MOBILIZATION	LUMP	LUMP			
1190	660.21 ON-THE-JOB TRAINING (BID)	3000.000 HR				
1200	801.02 TEMPORARY DETOUR TEMPORARY WCB DETOUR	LUMP	LUMP			
1210	801.194 18 INCH PVC SANITARY SEWER (SDR-35) WCB @ DAY ST.	146.000 LF				
1220	802.202 REBUILD EXISTING SEWER STRUCTURE @ CENTRAL ST.	LUMP	LUMP			
1230	802.211 RELINE EXISTING SEWER	208.000 LF				
1240	803.16 4 FOOT DIAMETER PRECAST SEWER MANHOLE	1.000 EA				
	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
<b><u>Trench Patching</u></b>						
Wearing	12.5mm	403.209	N/A	1 ½"	1	2,4,12,18
Base	12.5mm	403.209	N/A	match existing	2" max lift	2,4,18
<b><u>Drives</u></b>						
Wearing	9.5mm	403.209	N/A	3"	2/more	2,3,10,11,14
<b><u>Drives &amp; Sidewalks, Islands</u></b>						
Wearing	9.5mm	403.209	N/A	2"	2/more	2,3,10,11,14

**COMPLEMENTARY NOTES**

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.** (N<sub>design</sub>)
10. Section 106.6 Acceptance, (2) Method D.
11. The combined aggregate gradation required for this item shall be classified as a 9.5mm "**fine graded**" mixture, (using the Primary Control Sieve control point) as defined in 703.09.
12. 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.
18. The Department will accept or reject any HMA based on a visual basis, either prior to it's use, during placement, or in it's final disposition. Samples may be taken for informational purposes.

**Tack Coat**

A tack coat of emulsified asphalt, RS-1 or HFMS-1, Item 409.15 shall be applied to any existing pavement at a rate of approximately 0.025 gal/yd<sup>2</sup>, and on milled pavement approximately 0.05 gal/yd<sup>2</sup>, 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/yd<sup>2</sup>.

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

Westbrook  
 STP-1523(400)X  
 William Clarke Blvd.  
 Spring Street  
 Westbrook Arterial  
 Mill and Overlay  
 Traffic Improvements  
 April 14, 2010

**SPECIAL PROVISION**  
**SECTION 403**  
**HOT MIX ASPHALT**

<b>Desc. of Course</b>	<b>Grad. Design</b>	<b>Item Number</b>	<b>Bit Cont. % of Mix</b>	<b>Total Thick</b>	<b>No. Of Layers</b>	<b>Comp. Notes</b>
<b><u>William Clarke Boulevard, Spring Street</u></b>						
<b><u>Full Construction Areas</u></b>						
<b><u>Widening Areas, Travelway and Shoulder</u></b>						
Wearing	12.5mm	403.2081	N/A	1 ½"	1	1,5,7
Base	12.5mm	403.2131	N/A	1 ½"	1	1,5,7
Base	19.0mm	403.207	N/A	4 ½"	2/more	5,7,13
<b><u>William Clarke Boulevard, Spring Street</u></b>						
<b><u>3" Mill with 3" HMA Overlay Areas</u></b>						
<b><u>Travelway and Shoulders</u></b>						
Wearing	12.5mm	403.2081	N/A	1 ½"	1	1,5,7
Base	12.5mm	403.2131	N/A	1 ½"	1	1,5,7
<b><u>Side Road Entrances - Typical</u></b>						
<b><u>Travelway and Shoulders</u></b>						
Wearing	12.5mm	403.2081	N/A	1 ½"	1	1,5,7
Base	12.5mm	403.2131	N/A	1 ½"	1	1,5,7
<b><u>Shim – as directed</u></b>						
Shim	9.5mm	403.211	N/A	variable	1/more	2,4,10,11
<b><u>Drives &amp; Sidewalks, Islands</u></b>						
Wearing	9.5mm	403.209	N/A	2"	2/more	2,3,10,11,14

**COMPLEMENTARY NOTES**

- The required PGAB for this mixture will meet a **PG 70-28** to **PG 76-28** grading. The use of Recycled Asphalt Pavement (RAP) will not be permitted in mixtures utilizing modified PGAB's.
- The density requirements are waived.
- The design traffic level for mix placed shall be <0.3 million ESALS.
- The aggregate qualities shall meet the design traffic level of 3 to <10 million ESALS for mix placed under this contract. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **75 gyrations**.
- Section 106.6 Acceptance, (1) Method A.
- Section 106.6 Acceptance, (2) Method C.
- Section 106.6 Acceptance, (2) Method D.
- The combined aggregate gradation required for this item shall be classified as a 9.5mm "**fine graded**" mixture, (using the Primary Control Sieve control point) as defined in 703.09.
- The combined aggregate gradation required for this item shall be classified as a 12.5mm mixture (using the Primary Control Sieve control point) as defined in 703.09.

**Westbrook  
STP-1523(400)X  
William Clarke Blvd.  
Spring Street  
Westbrook Arterial  
Mill and Overlay  
Traffic Improvements  
April 14, 2010**

13. The Contractor may use a 12.5mm mixture for this item. Should this option be utilized, the lift thickness shall be adjusted to a 3 inch maximum course depth.
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.

Tack Coat

A tack coat of emulsified asphalt, RS-1, Item 409.15 shall be applied to any existing pavement or recycled layer at a rate of approximately 0.025 gal/yd<sup>2</sup>, and on milled pavement approximately 0.05 gal/yd<sup>2</sup>, 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/yd<sup>2</sup>.

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

SPECIAL PROVISIONS  
SECTION 502  
STRUCTURAL CONCRETE  
COLORED PAVEMENT

502.01 Description. This work shall consist of furnishing a Test Sample for approval by the resident; and the placement of colored, stamped Portland cement concrete pavement and incidental construction for all colored pavements in raised traffic islands, as indicated on the plans and as directed by the Resident. Except as otherwise specified in this Special Provision, all work shall be in conformity with the applicable provisions of Section 502, Structural Concrete; and, Section 515, Protective Coating for Concrete Surfaces. Colored pavement shall consist of a permanent, fade-resistant, uniform, and streak-free integral color-conditioning a stamped Portland cement concrete. The stamped, colored concrete Brick pattern shall have the appearance pattern, replicating New Brick Soldier Border Stacked with Soldier Border or equal as directed by the Resident.

MATERIALS

502.02 Concrete Mix. Portland cement concrete shall be class LP and shall be colored throughout the mix. The mix design must be approved by the Resident prior to any concrete construction taking place. The concrete mix design shall have a maximum slump of 4 in (100 mm) and must contain a minimum of 275 kilograms per cubic meter (5 sacks per cubic yard) of cement. No calcium chloride shall be added. The same brand of cement, source of sand, and water/cement ratio shall be maintained for each load of concrete of the same color.

502.03 Reinforcement. Steel reinforcement shall be 100 mm x 100 mm (6-inch by 6-inch) W4 x W4 Steel Welded Wire Reinforcement, Deformed, conforming to Section 503 and Section 709.02.

502.04 Preformed Expansion Joint Filler. Preformed Expansion Joint Fillers shall meet the requirements of Section 705.01.

502.05 Coloring Materials. The Stamped Colored pavement shall consist of Portland cement concrete replicating Red Brick color subject to approval of a Test Sample, as directed by the Resident. The color-conditioning admixture shall be a single-component, colored, water-reducing, set-controlling admixture, factory formulated and packaged in cubic yard dosage increments, not multiple additives and pigments added separately into the mix. It shall comply with ASTM C 494, ASTM C979, and AASHTO M194.

## CONSTRUCTION REQUIREMENTS

502.06 Test Slabs. Test slabs of colored pavement shall be poured replicating jobsite conditions, using the contemplated materials and construction techniques, including surface hardeners and stamping, and shall be submitted for approval. Test slabs of colored concrete shall be a minimum of 100 mm (4-in) thick and 0.6 meter (2-feet) by 0.6 meter (2-feet) square. Up to three separate test slabs may be required to be cast as directed by the Resident.

502.07 Preparation of Foundation. Existing pavement shall be removed, and the existing gravel material shall be graded and compacted to provide adequate and uniform load-bearing characteristics. Prior to concrete placement the foundation bed shall be thoroughly and uniformly saturated with water, and shall be free of puddles and excessive surface water.

502.08 Placement of Concrete. Concrete shall be placed in a continuous operation between preformed expansion joints. No construction joints will be allowed. Expansion Joints shall have an approved expansion joint sealer matching the color of the concrete, installed as detailed on the plans. Preformed Expansion Joints shall be continuous and of an approved material; and, Control Joints shall be saw cut into the surface. Expansion Joints and Control Joints shall be placed as shown on the plans.

502.09 Weather and Curing Limitations. Colored pavement shall only be placed between the dates of May 1 and October 1, provided the air temperature as determined by an approved thermometer placed in the shade at the paving location is 10 degrees C (50 degrees F) or higher. During the curing process, the concrete shall not be covered with plastic sheeting, burlap, or other material which might disturb the uniformity of color throughout the concrete.

502.10 Mixing, Placing and Finishing. The concrete mix shall be controlled to provide good batch-to-batch uniformity. Ready-mix trucks shall be in good condition. If required by the Resident, the Contractor shall wet-check the approximate color of each load before placing in accordance with the color admixture manufacturer's recommendations.

Before batching, the drum must be thoroughly clean and wet. The quantity of colored concrete mixed shall not be less than one-third of the capacity of the mixing drum, and shall always be in full cubic yard increments. Approximately 150 L (40 gal) of the mix water and a portion of the aggregates shall be batched into the mixer drum. Then one bag of the approved admixture, correctly packaged for the mix design, shall be added for each cubic yard of concrete. The remaining ingredients shall be added, and the load mixed at the specified mixing speed for a minimum of 130 revolutions, before discharging. Admixtures shall never be added to an empty drum or at the tail end of a load. When depositing, the concrete shall be deposited near its final position to avoid segregation due to rehandling or flowing. The concrete shall be placed and consolidated so that it completely fills all space inside the forms and provides a suitable surface for finishing. No water shall be added after the truck has left the batch plant. Concrete that has started to set must not be retempered, but shall be discarded.

Prior to final acceptance the cured, cleaned, Colored Textured concrete surfaces shall receive a separate treatment of approved concrete sealant according to manufacturers directions and specifications.

502.11. Quality Assurance. Quality assurance of Structural Concrete, Colored Pavement will be by Method B as defined in Section 502.0504 of the Standard Specifications.

502.12 Method of Measurement. Structural Concrete, Colored Pavement, satisfactorily placed and accepted, will be measured for payment by the number of square yards of colored concrete delivered and accepted in place, in accordance with the dimensions shown on the plans or authorized by the Resident. There will be no separate measurement for admixtures, reinforcement, expansion and contraction joints, joint filler material, joint sealant, concrete coloring, finishing, or stamping, or related and incidental construction.

502.13 Basis of Payment. The accepted quantity of Structural Concrete, Colored Pavement will be paid for at the contract unit price per square yard, which payment will be full compensation for all labor, grading and compacting of existing gravel, materials, tools, equipment, and incidentals necessary to complete the work, including the fabrication, delivery and placement of colored concrete and reinforcement, admixtures, finish grading, furnishing and placement of expansion and control joints and joint filler material and sealant, and the furnishing and application of curing agents and protective coatings and stamping. Any excavation required shall be paid under 203 item.

Payment will be made under:

Pay Item	Pay Unit
502.35 Structural Concrete, Stamped Colored Concrete Pavement	Square Yard

Town: Westbrook  
Projects: NH-1523(400)  
Date: April 22, 2010

**SUPPLEMENTAL SPECIFICATIONS  
SECTION 634  
HIGHWAY LIGHTING**

ADD the following to Subsection 634.02:

634.02 GENERAL

Highway lighting luminaires and lighting standards shall be provided as detailed on the Contract Drawings. As part of the Base Bid, provide Highway Lighting Luminaires and Lighting Standards as manufactured by *Hadco/Visco* (CF1 Series). At the Bidder's option, a second alternative price may also be quoted for equal products as manufactured by *Sterner Lighting*. The contractor shall be permitted to provide alternate pole shaft (8") and pole base (24" w x 27.5" h) sizes however; it is the contractor's responsibility to ensure that any and all changes to lighting poles conform to wind load capabilities at 90mph sustained wind load with a 1.3 gust factor.

Type A

*Highway Lighting Luminaire:* Two (2) area lights per lighting Standard with Type 3 IES distribution, ballast with modular connectors, photocell control, gasketed clear dome diffuser and 250-watt metal halide lamp. Luminaire finish shall be polyester powder coat paint (RAL6005). The luminaire shall conform to the details shown on Sheet 44 of the plans.

*Lighting Standard:* 11 gage tapered steel pole, 8-sided (*Visco* #VI-WB21-OCT-21), with 2-1/2 inch schedule 40 steel pipe bracket arms (*Hadco* #SA9075), 2-piece cast aluminum pole castings, 24" long banner arms, and a 2-piece cast aluminum base cover. Pole finish shall be polyester powder coat paint over a galvanized sub-finish (RAL6005). The lighting standard and bracket arm shall conform to the details shown on Sheet 44 of the plans.

Type B

*Highway Lighting Luminaire:* Identical to Type A except one (1) light per Lighting Standard. The luminaire shall conform to the details shown on Sheet 44 of the plans.

*Lighting Standard:* Identical to Type A except 24-ft. high with single bracket arm. The lighting standard and bracket arm shall conform to the details shown on Sheet 44 of the plans.

634.093 BASIS OF PAYMENT

Highway Lighting will be paid for at the Contract lump sum price. Payment shall be full compensation for the luminaires, lamps, underground wiring, service panels, grounding, work associated with obtaining utility company secondary and all incidentals necessary to complete the work.

The accepted quantity of light standards will be paid for at the contract unit price for the number of standards by each type. Payment shall be full compensation for the light standard,

bracket arms, pole castings, base cover, pole wiring and all incidentals necessary to complete the work.

<u>Pay Item</u>	<u>Pay Unit</u>
634.16 Highway Lighting	Lump Sum
634.2101 Type A Lighting Standard	Each
634.2102 Type B Lighting Standard	Each

**Town: Westbrook**  
**Project: NH-1523(400)**  
**Date: April 15, 2010**

**SPECIAL PROVISIONS**  
**SECTION 645**

**Traffic Signals**

**(Remove and Salvage Existing Signals and Overhead Signal Truss)**

**634.01 Description.** The work will consist of removing and salvaging all existing traffic signal equipment including the existing overhead signal truss at the intersection of the Westbrook Arterial and Main Street. The Contractor shall remove this equipment, disassemble the truss, and deliver everything to the City of Westbrook's Public Works facility at 371 Saco Street or to area designated within the city. 48-hours prior to this action, the contractor shall contact Doug Eaton at 854-0660.

Payment for this work shall be incidental to traffic signals.

Town: **Westbrook**  
Projects: **NH-1523(400)**  
Date: **April 15, 2010**

**SUPPLEMENTAL SPECIFICATIONS  
SECTION 801  
TEMPORARY WILLIAM CLARKE DRIVE DETOUR**

Description: The scope of this work includes the temporary construction of a detour for William Clarke Drive traffic during the installation of the Day Street Sewer. Since the City will allow open cutting of the existing street during sewer construction, the contractor will need to construct a temporary detour so that three lanes of traffic can be maintained on William Clarke Drive at all times. The Detour construction shall consist of 18” of aggregate subbase course gravel and 3” of Hot Mix Asphalt (19mm) as a minimum. Existing curbing will need to be removed and existing side slopes regraded to provide for the detour road section. The Contractor is responsible for designing the detour. The Department is responsible for approval of the design and the Contractor shall submit detour design with traffic control plan.

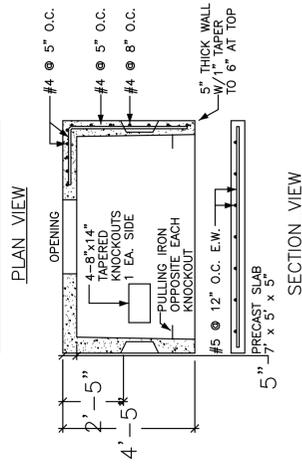
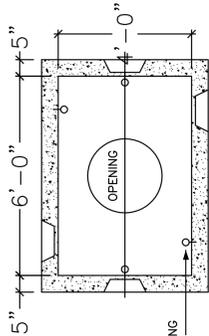
Method of Measurement:

Temporary William Clarke Drive Detour will be measured as one lump sum.

Basis of Payment:

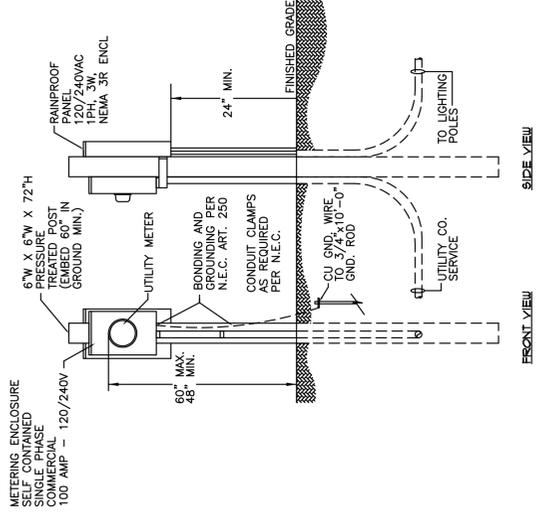
Temporary William Clarke Drive Detour will be paid at the contract lump sum price. Such payment will be full compensation for any excavation, temporary embankment construction, furnishing and placing aggregate subbase gravel, furnishing and placing Hot Mix Asphalt as a temporary wearing surface and the removal of the detour, regrading, loam, seed and mulch to restore the disturbed area. Any special signing or sign modifications that are needed to operate this detour safely will be paid for separately under other contract items. The removal and resetting of existing curbing for detour construction will be paid for under the Reset Curb item.

- NOTES:
1. CONCRETE: 4,000 PSI @ 28 DAYS.
  2. USE 32" COVER AND FRAME MARKED CMPCo OR VERIZON AS REQUIRED. MINIMUM ONE COURSE BRICK TO GRADE.
  3. MOUNTINGS FOR CABLE RACKS, ETC. CAST IN WALL BY FUTURE PLANS OR FIELD LOCATED.
  4. SPLICE BOX SHALL BE SET ON A SUITABLE GRAVEL BASE.
  5. REINFORCING: GRADE 60 REBAR:
    - REINFORCEMENT PLACED IN CENTER OF CONCRETE SLAB, WALLS, & ROOF.
    - #4 @ 5" O.C. VERTICALLY IN WALLS, CANTILEVERED OVER TOP OF OPENING.
    - #4 @ 8" O.C. HORIZONTALLY IN WALLS.
    - 4 PIECES #4 SURROUNDING OPENING.
    - #4 @ 5" O.C. EACH WAY ON TOP.
  6. MANHOLE FRAMES AND COVERS ARE TO BE MACHINED TO A SMOOTH FIT AND SHALL BE OF GRAY CAST IRON.
  7. COVER SHALL HAVE DIAMOND TOP SURFACE.



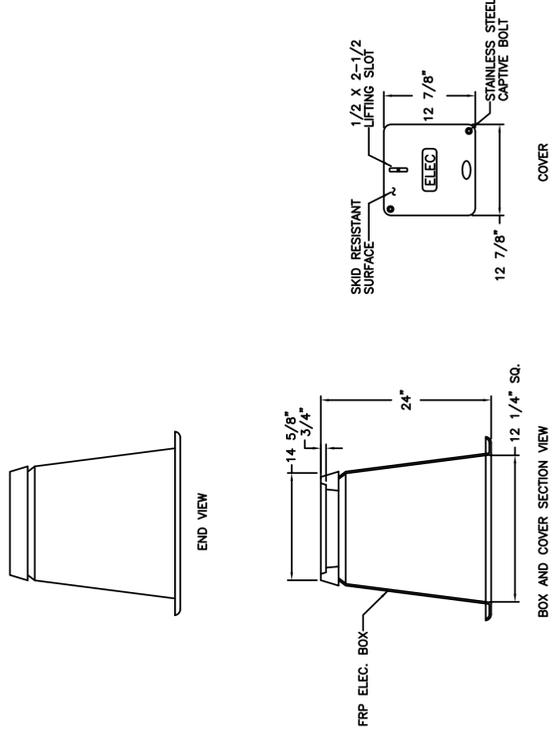
ELECTRICAL SERVICE BOX

NOT TO SCALE



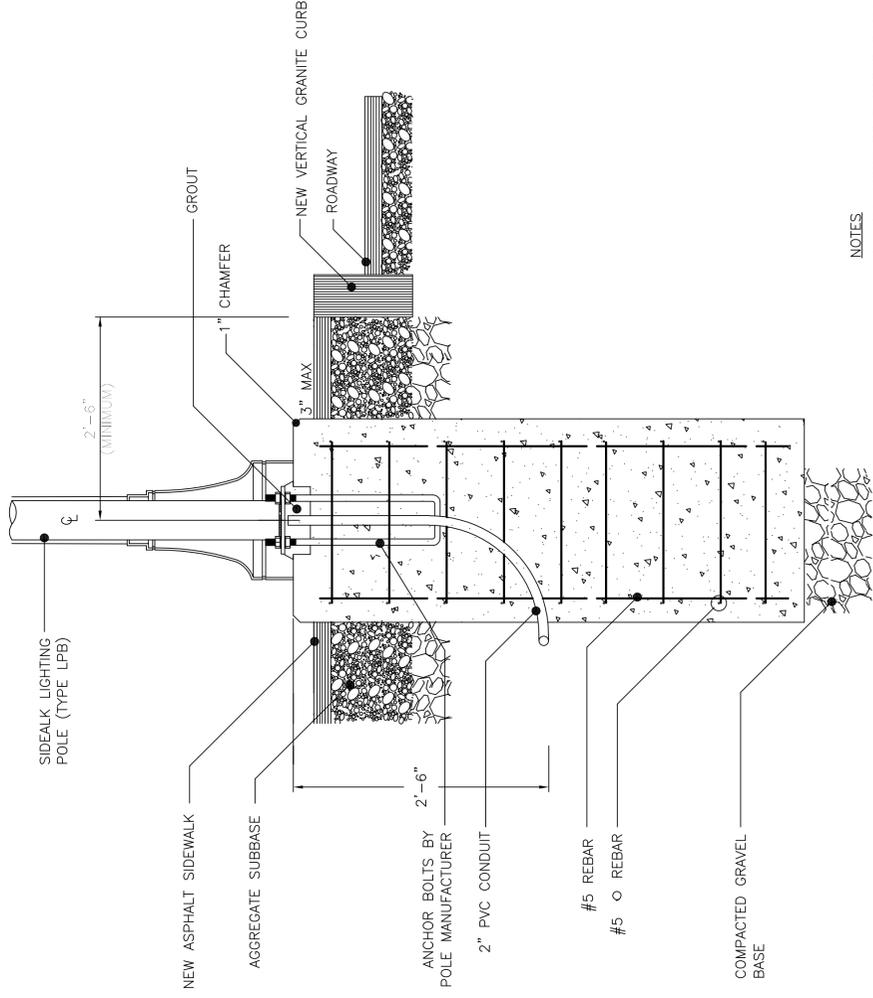
ELECTRICAL PANEL AND METER DETAIL

1/4" = 1'-0"



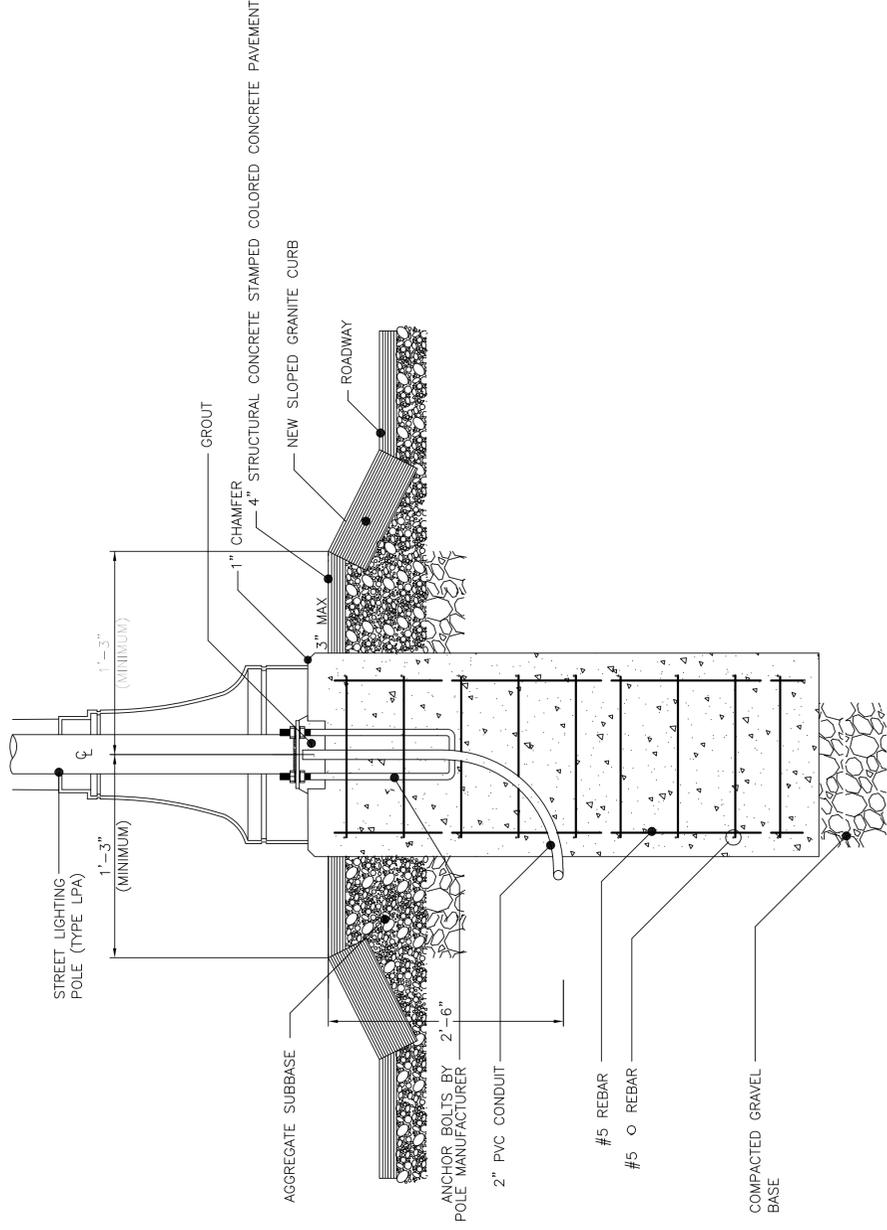
ELECTRICAL JUNCTION/SERVICE BOX DETAIL

1" = 1'-0"



TYPE LPB POLE BASE DETAIL

NOT TO SCALE



TYPE LPA POLE BASE DETAIL

NOT TO SCALE

- NOTES
1. ALL LIGHT POLE BASES SHALL BE BREAKAWAY TYPE DESIGN
  2. THE CONTRACTOR SHALL DESIGN THE DIAMETER, DEPTH AND REINFORCING FOR THE LIGHT POLE FOUNDATIONS. SHOP DRAWINGS PREPARED AND STAMPED BY A MAINE REGISTERED PROFESSIONAL ENGINEER SHALL BE SUBMITTED FOR REVIEW BY THE DEPARTMENT.

LIGHTING DETAILS  
 OF:  
 WILLIAM CLARKE BOULEVARD  
 WESTBROOK, MAINE

DATE: 09-16-08  
 SCALE: AS SHOWN  
 SHEET 44 OF 105

PROJECT NO.	08231
FIELD BOOK	-
DESIGN	BRL
CHKD	SSS
DRAWN	BRL

WWW.SBAGOTECHNICS.COM  
 Tel (207) 956-0277  
 Fax (207) 783-6566  
 One Chabot Street  
 Westbrook, ME 04092-1399  
 Lewiston, ME 04240

Engineering Expertise You Can Build On

REV:	BY:	DATE:	STATUS:
C	SSS	3-22-10	FINAL PLAN SUBMITTAL
B	SSS	2-13-09	98% REVIEW
A	SSS	12-19-08	SUBMITTED TO MDOT FOR UTILITY COORDINATION

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SBAGO TECHNICS, INC.

PROJECT NO.	08231
FIELD BOOK	--
DESIGN	BRL
CHKD	SSS
DRAWN	BRL

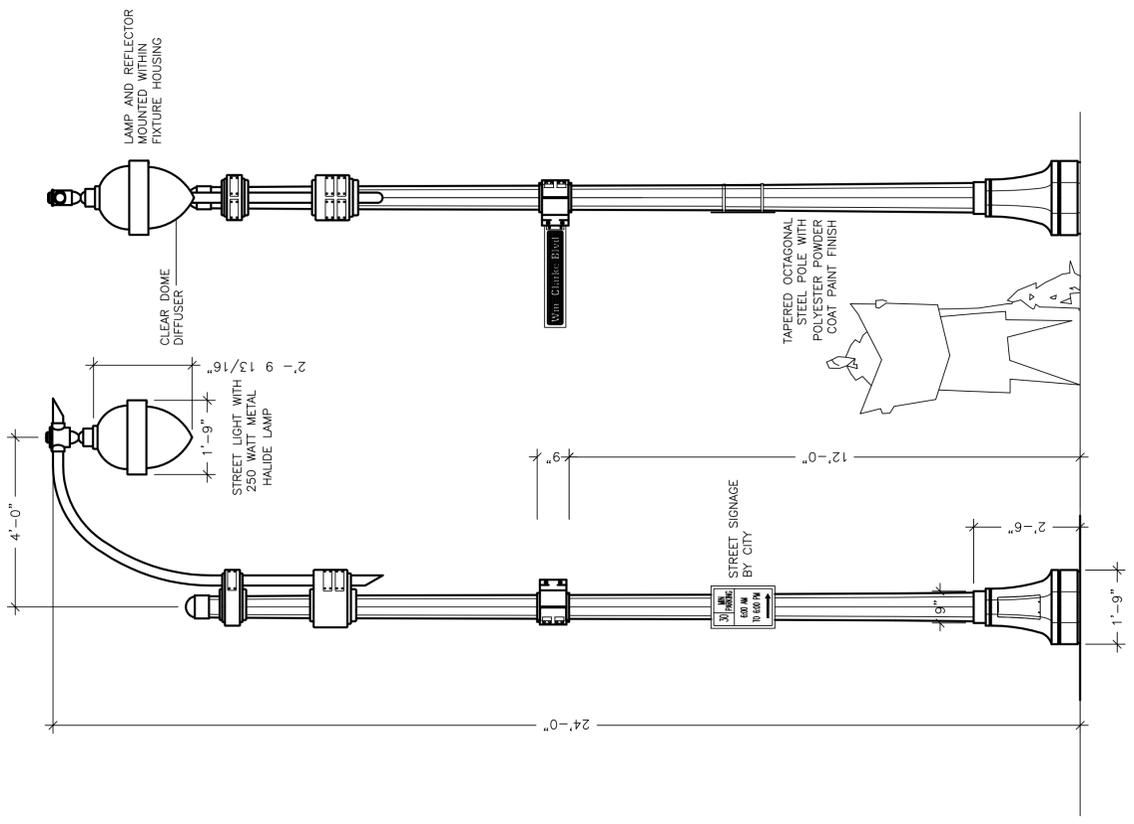
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REV:	A	BY:	SSS	DATE:	12-19-08	STATUS:	SUBMITTED TO MDOT FOR UTILITY COORDINATION
REV:	B	BY:	SSS	DATE:	2-13-09	STATUS:	98% REVIEW
REV:	C	BY:	SSS	DATE:	3-22-10	STATUS:	FINAL PLAN SUBMITTAL

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LIGHTING POLE  
TYPE B



LIGHTING POLE  
TYPE A

