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

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

April 12, 2007
Subject: **Westbrook**
Project No. STP-1055(100)X
Pin No. 10551.00
**Amendment No. 1**

Dear Sir/Ms:

Please make the following changes to the Bid Documents.

In the Bid Book, REMOVE the existing: "Schedule of Items" eight pages total, dated 070323 and REPLACE with the attached updated: "Schedule of Items" nine pages total, dated 070412.

REMOVE the existing: "Special Provision, Section 107, Time, (Scheduling of Work-Projected Payment Schedule)" one page total, dated March 8, 2007 and REPLACE with the attached updated: "Special Provision, Section 107, Time, (Scheduling of Work-Projected Payment Schedule)" one page total, dated April 5, 2007

REMOVE in its entirety: "Special Provision, Section 202, Removal of Structures and Obstructions" two pages total, dated August 30, 2006.

In "Special Provision, Section 403, Hot Mix Asphalt Overlay" two pages total, dated January 23, 2007, on page 2 of 2 under "Tack Coat" change both 0.08 L/m2 references to 0.10 L/m2. Make these changes in pen and ink.

REMOVE the existing: "Special Provision, Section 502, Structural Concrete, (Roadway Median and Repair of Existing Concrete Roadway)" two pages total, dated March 20, 2007 and REPLACE with the attached: "Special Provision, Section 502, Structural Concrete, (Roadway Median)" two pages total, dated April 12, 2007.

ADD the attached: "Special Provision, Section 604, Manholes and Catch Basins, (Catch Basin Inlet Assembly)" one page total, dated April 5, 2007.

REMOVE the existing: "Special Provisions, Section 643, Traffic Signals" page 88 undated and REPLACE with the attached: "Special Provisions, Section 643, Traffic Signals" one page total, dated April 12, 2007.

ADD the attached: "Special Provision, Section 823, Gate Valve Boxes" one page total, dated January 3, 2003.

In the Plan Sheets, REMOVE the existing plan sheet four of fifty-one titled: "Estimate Quantities and Earth Summary" and REPLACE with the attached updated plan sheet four of fifty-one titled: "Estimate Quantities and Earth Summary"

On plan sheet six of fifty-one titled: "Construction Notes" within note twenty-nine that begins: "The 1.2m sections of..." DELETE the following statement: "paid for under item 609.234." and REPLACE it with the following statement: "considered incidental". Make this change in pen and ink.

On plan sheet six of fifty-one titled: "Construction Notes" within note thirty-five that begins: "Two way traffic shall be..." DELETE the following statement: "Failure to maintain two-way traffic shall result in a 5% decrease in item 652.361-Maintenace of Traffic Control Devices per occurrence." Make this change in pen and ink.

The following questions have been received.

**Question:** RE. Note 36 on plan sheet 6, will the contractor be paid to test pit 30" water main?

**Response:** The test pit for the 30" main will be considered incidental to the underdrain items.

**Question:** The drawings show some existing drainage to be removed. Is all existing drainage to be removed or just drainage labeled as "Remove"?

**Response:** All existing drainage and structures that are not to be used or tied into will be removed.

**Question:** The plans show 2 buildings to be removed. Special Provision 202 does not describe how the removal will be paid. Have the buildings been removed by others previously?

**Response:** Yes. See change earlier in this amendment removing Special Provision 202 Removal of Structures and Obstructions.

Consider this information and changes prior to submitting your bid on April 18, 2007.

Sincerely,

For Scott Bickford
Contracts & Specifications Engineer

SCHEDULE OF ITEMS REVISED:

CONTRACT ID: 010551.00 PROJECT(S): STP-1055(100)X

CONTRACTOR :_____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS | UNIT PRICE CTS | BID AMOUNT DOLLARS | BID AMOUNT CTS |
|---|---|---|---|---|---|---|
| | SECTION 0001 PROJECT ITEMS | | | | | |
| 0010 | 201.11 CLEARING | 0.250 HA | | | | |
| 0020 | 201.23 REMOVING SINGLE TREE TOP ONLY | 22.000 EA | | | | |
| 0030 | 201.24 REMOVING STUMP | 22.000 EA | | | | |
| 0040 | 203.20 COMMON EXCAVATION | 15200.000 M3 | | | | |
| 0050 | 203.21 ROCK EXCAVATION | 200.000 M3 | | | | |
| 0060 | 203.25 GRANULAR BORROW | 705.000 M3 | | | | |
| 0070 | 206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES | 200.000 M3 | | | | |
| 0080 | 304.08 AGGREGATE BASE COURSE - SCREENED | 2800.000 M3 | | | | |
| 0090 | 304.10 AGGREGATE SUBBASE COURSE - GRAVEL | 9550.000 M3 | | | | |
| 0100 | 403.207 HOT MIX ASPHALT 19.0 MM NOMINAL MAX SIZE | 2510.000 MG | | | | |

SCHEDULE OF ITEMS REVISED:

CONTRACT ID: 010551.00 PROJECT(S): STP-1055(100)X

CONTRACTOR :_____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | | UNIT PRICE DOLLARS | UNIT PRICE CTS | BID AMOUNT DOLLARS | BID AMOUNT CTS |
|---|---|---|---|---|---|---|---|
| 0110 | 403.208 HOT MIX ASPHALT 12.5 MM, SURFACE | 2150.000 | MG | | | | |
| 0120 | 403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS) | 310.000 | MG | | | | |
| 0130 | 403.213 HOT MIX ASPHALT 12.5 MM, BASE | 2130.000 | MG | | | | |
| 0140 | 409.15 BITUMINOUS TACK COAT APPLIED | 2820.000 | L | | | | |
| 0150 | 502.341 STRUCTURAL CONCRETE ROADWAY MEDIAN | 40.000 | M3 | | | | |
| 0160 | 603.15 300 MM CULVERT PIPE OPTION I | 33.000 | M | | | | |
| 0170 | 603.159 300 MM CULVERT PIPE OPTION III | 2.000 | M | | | | |
| 0180 | 603.17 450 MM CULVERT PIPE OPTION I | 171.000 | M | | | | |
| 0190 | 603.175 450 MM RCP CLASS III | 134.000 | M | | | | |
| 0200 | 603.179 450 MM CULVERT PIPE OPTION III | 77.000 | M | | | | |
| 0210 | 603.199 600 MM CULVERT PIPE OPTION III | 25.000 | M | | | | |

CONTRACT ID: 010551.00 PROJECT(S): STP-1055(100)X

CONTRACTOR :_____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS | UNIT PRICE CTS | BID AMOUNT DOLLARS | BID AMOUNT CTS |
|---|---|---|---|---|---|---|
| 0220 | 603.225 1050 MM REINFORCED CONCRETE PIPE CLASS III | 25.000 M | | | | |
| 0230 | 604.072 CATCH BASIN TYPE A1-C | 19.000 EA | | | | |
| 0240 | 604.076 1500 MM CATCH BASIN TYPE A1-C | 3.000 EA | | | | |
| 0250 | 604.15 MANHOLE | 4.000 EA | | | | |
| 0260 | 604.153 1500 MM MANHOLE | 1.000 EA | | | | |
| 0270 | 604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE | 4.000 EA | | | | |
| 0280 | 604.2403 CATCH BASIN INLET ASSEMBLY | 1.000 EA | | | | |
| 0290 | 605.09 150 MM UNDERDRAIN TYPE B | 335.000 M | | | | |
| 0300 | 605.12 375 MM UNDERDRAIN TYPE C | 105.000 M | | | | |
| 0310 | 605.13 450 MM UNDERDRAIN TYPE C | 275.000 M | | | | |
| 0320 | 605.15 600 MM UNDERDRAIN TYPE C | 110.000 M | | | | |

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CONTRACTOR :_____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS | UNIT PRICE CTS | BID AMOUNT DOLLARS | BID AMOUNT CTS |
|---|---|---|---|---|---|---|
| 0330 | 609.11 VERTICAL CURB TYPE 1 | 1120.000 M | | | | |
| 0340 | 609.12 VERTICAL CURB TYPE 1 - CIRCULAR | 90.000 M | | | | |
| 0350 | 609.234 TERMINAL CURB TYPE 1 - 1.2 METER | 21.000 EA | | | | |
| 0360 | 609.34 CURB TYPE 5 | 850.000 M | | | | |
| 0370 | 609.35 CURB TYPE 5 - CIRCULAR | 25.000 M | | | | |
| 0380 | 610.08 PLAIN RIPRAP | 70.000 M3 | | | | |
| 0390 | 610.18 STONE DITCH PROTECTION | 50.000 M3 | | | | |
| 0400 | 613.319 EROSION CONTROL BLANKET | 675.000 M2 | | | | |
| 0410 | 615.07 LOAM | 1100.000 M3 | | | | |
| 0420 | 618.1301 SEEDING METHOD NUMBER 1 - PLAN QUANTITY | 110.000 UN | | | | |
| 0430 | 619.1201 MULCH - PLAN QUANTITY | 110.000 UN | | | | |

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CONTRACTOR :_____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS | UNIT PRICE CTS | BID AMOUNT DOLLARS | BID AMOUNT CTS |
|---|---|---|---|---|---|---|
| 0440 | 619.1401 EROSION CONTROL MIX | 50.000 M3 | | | | |
| 0450 | 620.54 STABILIZATION GEOTEXTILE | 18500.000 M2 | | | | |
| 0460 | 621.037 EVERGREEN TREES (1500 MM - 1800 MM) GROUP A | 10.000 EA | | | | |
| 0470 | 621.267 LARGE DECIDUOUS TREE (45 MM - 50 MM CALIPER) GROUP A | 16.000 EA | | | | |
| 0480 | 626.11 PRECAST CONCRETE JUNCTION BOX:___ | 10.000 EA | | | | |
| 0490 | 626.21 METALLIC CONDUIT | 30.000 M | | | | |
| 0500 | 626.22 NON-METALLIC CONDUIT | 415.000 M | | | | |
| 0510 | 626.33 750 MM FOUNDATION | 4.000 EA | | | | |
| 0520 | 626.35 CONTROLLER CABINET FOUNDATION | 1.000 EA | | | | |
| 0530 | 627.711 WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE (PLAN QUANTITY ) | 3900.000 M | | | | |
| 0540 | 627.75 WHITE OR YELLOW PAVEMENT AND CURB MARKING | 230.000 M2 | | | | |

CONTRACT ID: 010551.00 PROJECT(S): STP-1055(100)X

CONTRACTOR :_____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS | UNIT PRICE CTS | BID AMOUNT DOLLARS | BID AMOUNT CTS |
|---|---|---|---|---|---|---|
| 0550 | 627.76 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW | LUMP | LUMP | | | |
| 0560 | 629.05 HAND LABOR, STRAIGHT TIME | 100.000 HR | | | | |
| 0570 | 631.10 AIR COMPRESSOR (INCLUDING OPERATOR) | 50.000 HR | | | | |
| 0580 | 631.11 AIR TOOL (INCLUDING OPERATOR) | 50.000 HR | | | | |
| 0590 | 631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR) | 50.000 HR | | | | |
| 0600 | 631.14 GRADER (INCLUDING OPERATOR) | 50.000 HR | | | | |
| 0610 | 631.172 TRUCK - LARGE (INCLUDING OPERATOR) | 50.000 HR | | | | |
| 0620 | 631.22 FRONT END LOADER (INCLUDING OPERATOR) | 50.000 HR | | | | |
| 0630 | 634.16 HIGHWAY LIGHTING | LUMP | LUMP | | | |
| 0640 | 639.18 FIELD OFFICE TYPE A | 1.000 EA | | | | |
| 0650 | 643.80 TRAFFIC SIGNALS AT Spring and County | LUMP | LUMP | | | |

CONTRACT ID: 010551.00 PROJECT(S): STP-1055(100)X

CONTRACTOR :_____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS | UNIT PRICE CTS | BID AMOUNT DOLLARS | BID AMOUNT CTS |
|---|---|---|---|---|---|---|
| 0660 | 643.83 VIDEO DETECTION SYSTEM | LUMP | LUMP | | | |
| 0670 | 643.86 TRAFFIC SIGNAL LOOP DETECTORS | 8.000 EA | | | | |
| 0680 | 643.92 PEDESTAL POLE | 2.000 EA | | | | |
| 0690 | 645.1201 SIGNAL TRUSS | LUMP | LUMP | | | |
| 0700 | 645.291 ROADSIDE GUIDE SIGNS TYPE II | 45.000 M2 | | | | |
| 0710 | 645.292 REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS TYPE II | 15.000 M2 | | | | |
| 0720 | 652.31 TYPE I BARRICADE | 10.000 EA | | | | |
| 0730 | 652.33 DRUM | 100.000 EA | | | | |
| 0740 | 652.34 CONE | 100.000 EA | | | | |
| 0750 | 652.35 CONSTRUCTION SIGNS | 200.000 M2 | | | | |
| 0760 | 652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES | 170.000 CD | | | | |

CONTRACT ID: 010551.00 PROJECT(S): STP-1055(100)X

CONTRACTOR :_____

| LINE NO | ITEM DESCRIPTION | APPROX. QUANTITY AND UNITS | UNIT PRICE DOLLARS | UNIT PRICE CTS | BID AMOUNT DOLLARS | BID AMOUNT CTS |
|---|---|---|---|---|---|---|
| 0770 | 652.38 FLAGGER | 5000.000 HR | | | | |
| 0780 | 652.381 UNIFORM TRAFFIC OFFICERS | 300.000 HR | | | | |
| 0790 | 652.41 PORTABLE - CHANGEABLE MESSAGE SIGN | 4.000 EA | | | | |
| 0800 | 656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL | LUMP | LUMP | | | |
| 0810 | 658.20 ACRYLIC LATEX COLOR FINISH, GREEN | 920.000 M2 | | | | |
| 0820 | 659.10 MOBILIZATION | LUMP | LUMP | | | |
| 0830 | 660.21 ON-THE-JOB TRAINING (BID) | 2000.000 HR | | | | |
| 0840 | 823.011 GATE VALVE BOX, INSTALL ONLY | 20.000 EA | | | | |
| 0850 | 823.332 GATE VALVE BOX, ADJUST TO GRADE | 20.000 EA | | | | |
| | SECTION 0001 TOTAL | | | | | |
| | TOTAL BID | | | | | |

CONTRACT ID: 010551.00 PROJECT(S): STP-1055(100)X

LIST ITEMS ON THIS PAGE BY AMENDMENT

CONTRACTOR :_____

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

SPECIAL PROVISIONS ATTACHED

April 5, 2007
Supersedes March 8, 2007

# SPECIAL PROVISION
# SECTION 107
# TIME
(Scheduling of Work – Projected Payment Schedule)

Description The Contractor shall also provide the Department with a Quarterly Projected Payment Schedule that estimates the value of the Work as scheduled, including requests for payment of Delivered Materials. The Projected Payment Schedule must be in accordance with the Contractor's Schedule of Work and prices submitted by the Contractor's Bid. The Contractor shall submit the Projected Payment Schedule as a condition of Award.

# SPECIAL PROVISION
# SECTION 502
# STRUCTURAL CONCRETE
(Roadway Median)

Description This work shall consist of furnishing and placing a portland cement concrete pavement and incidental construction as shown on the plans, or 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, Section 503 - Reinforcing Steel, and Section 515 - Protective Coating for Concrete Surfaces.

## MATERIALS

Concrete Concrete shall be Class A.

Reinforcing Steel Reinforcing steel shall be as shown on the plans and conform to Section 503 - Reinforcing Steel and Section 709.02 Welded Wire Fabric.

Control Joint Zip strip control joint shall be 38 mm [1 ½ inch] type as manufactured by Superior Featherweight Tool Company, 1325, Bixby Drive, City of Industry, CA 91745; Harris Plastic Control Joint Former 38 mm [1 ½ inch] type as manufactured by A.H. Harris & Sons, Inc., 21 Ellis Street, New Britain, CT 06050; or an equivalent.

Joint Sealant Per Section 714.04 - Sealant.

## CONSTRUCTION REQUIREMENTS

Preparation of Foundation The foundation bed shall be well graded and compacted, as directed by the Resident, to provide the thickness of concrete indicated on the plans.

Prior to the concrete placement, the foundation bed shall be thoroughly and uniformly saturated with water. The bed shall be free of puddles and excessive surface water.

Placement of Concrete The concrete mix shall be placed in a continuous placement operation when possible so that construction joints will be kept to a minimum. Construction joints shall be constructed when there is a break in a placement. Construction joints shall be used to provide access to driveways and roads as directed by the Resident. 600 mm [2 ft] long dowels spaced at 300 mm [12 in] on center shall be placed at the construction joint. Construction joints shall be brushed with a neat cement paste immediately prior to making the adjacent placement. Control joints shall be constructed with a zip strip placed transversely at 3 m [10 ft] on centers.

Joint sealant shall be applied at the top surface of the concrete median at construction joints.

The surface of the concrete shall receive a float finish in accordance with Section 502.14(A) - Float Finish. Immediately following the float finish, the surface shall be textured at right angles to the roadway using an approved open-pile, stiff bristle broom or mat.

The curing period for the concrete shall be four days and shall meet the requirements of Section 502.15 - Curing Concrete. The finished surface of the concrete shall receive a protecting coating in accordance with Section 515 - Protective Coating for Concrete Surfaces.

Method of Measurement Structural concrete, roadway median, satisfactorily placed and accepted, will be measured for payment by the cubic meter [cubic yard], in accordance with the dimensions shown on the plans or authorized by the Resident.

Basis of Payment The accepted quantity of Structural Concrete, Roadway Median will be paid for at the contract unit price per cubic meter [cubic yard], which payment will be full compensation for all labor, materials, equipment, and incidentals necessary to complete the work, including the fabrication, delivery, and placement of reinforcement; the furnishing and the application of the protective coating; the fabrication, delivery, and placement of dowels; furnishing and placement of control joint strip and sealant.

Excavation for the placement of the Structural Concrete, Roadway Median will be paid for under the appropriate contract pay item, Section 203 - Excavation and Embankments.

Payment will be made under:

| Pay Item | | Pay Unit |
|---|---|---|
| 502.341 | Structural Concrete, Roadway Median | Cubic Meter [CY] |

City: Westbrook
PIN: 10551.00
Date: April 5, 2007

SPECIAL PROVISION
SECTION 604

MANHOLES AND CATCH BASINS
(Catch Basin Inlet Assembly)

This section is amended by addition of the following:

Description. This work shall consist of constructing catch basin Inlets in accordance with the requirements of Section 604 of the Standard Specifications and the Standard Details as applicable.

Materials. The catch basin Inlet shall consist of a Neenah Foundry Company Item R-3223 Series Sub-Basin Bowl with R-3226 Series Elbow or approved equal. Installed per manufactures recommendation.

**CONSTRUCTION REQUIREMENTS**

Method of Measurement. Measurement shall be in accordance with Subsection 604.05.

Basis of Payment. Payment shall be in accordance with Subsection 604.06.

Payment will be made under:

| Pay Item | | Pay Unit |
|---|---|---|
| 604.2403 | Catch Basin Inlet Assembly | Ea |



File: 604.2402.doc

Town: **Westbrook**
Project: **PIN 10551.00**
**April 12, 2007**

**SPECIAL PROVISIONS**
**SECTION 643**
**TRAFFIC SIGNALS**

The provisions of Section 643 of the Standard Specifications shall apply with the following additions and modifications:

Traffic controller shall be Naztec 981 series TS2 model Type 1 with Ethernet Port which is fully compatible with the Maine Mall Signal System Naztec Streetwise Master. MMU shall be Naztec model MMU 526E that is Fully compatible with the Maine Mall Signal System Naztec Streetwise Master. Traffic controller cabinet shall be Naztec model P44 TS2 Type 1 Series T only. A separate conduit shall be provided from the cabinet to the utility pole that the service is from for a future interconnect cable.

Video detection shall consist of Traficon model VIP 3D.1 and 3D.2 series processor boards, Traficon model Viewcom/E communication board, Traficon camera assemblies, 9" b/w monitor, surge/fuse panel and Traficon keypad or approved equivalent that has the same Ethernet and TCP/IP features.

At locations where video detectors are installed on traffic signal mast arms or structures, an initial six-foot vertical pipe extension shall be installed with the video detector mounted on the top of the extension pipe. The engineer reserves the right to direct the contractor to field adjust the height, either lower or higher, of the vertical extension pipes for local conditions identified during or after construction. No additional costs will be allowed for field adjusting the pipe extensions or rewiring.

**643.19 Basis of Payment** Traffic signals, and temporary adjustment of traffic signals will be paid for at the contract Lump Sum price, which payment will be full compensation for furnishing and installing all materials, including, but not limited to wood poles, span wire, guys, controllers and cabinet, vehicular heads, pedestrian heads, flashing beacons, wiring, cable, pole risers, LED lamps, strain poles, combination poles, any temporary traffic signals and temporary vehicle detection as required to maintain traffic flow through the intersection during construction and all appurtenances and incidentals required for a complete functioning installation and for furnishing all tools and labor necessary for completing the installation.

January 3, 2003

# SPECIAL PROVISION
# SECTION 823
# GATE VALVE BOXES

Description This work shall consist of the adjustment or installation of gate valve boxes as indicated in the Bid Book, Plans, or as directed by the Resident.

Gate Valve Box, Adjust to Grade shall consist of adjusting a gate valve box to the required final grade, including any lowering and any other adjustments that may be necessary prior to setting the final grade.

Gate Valve Box, Install Only shall consist of removing an existing gate valve box, installing a replacement gate valve box, and adjusting the replacement gate valve box as specified above.

Materials The municipality or utility company owning or operating the existing water main system will provide all replacement gate valve boxes necessary for the Gate Valve Box, Install Only item. Any gate valve boxes damaged by improper construction methods or handling by the Contractor, as determined by the Department, shall be replaced at the Contractor's expense.

Method of Measurement Gate Valve Box, Adjust to Grade and Gate Valve Box, Install Only will be measured by the unit each, complete and in place.

Basis of Payment Payment for Gate Valve Box, Adjust to Grade shall be full compensation for all equipment, labor, and incidental materials necessary to adjust a gate valve box as specified above.

Payment for Gate Valve Box, Install Only shall be full compensation for all equipment, labor, and incidental materials necessary to replace and adjust a gate valve box as specified above.

| Pay Item | | Pay Unit |
|---|---|---|
| 823.011 | Gate Valve Box, Install Only | Each |
| 823.332 | Gate Valve Box, Adjust to Grade | Each |

| Item | Item Description | Unit | Quantity |
|---|---|---|---|
| 201.11 | CLEARING | HA | 0.25 |
| 201.23 | REMOVING SINGLE TREE TOP ONLY | EA | 22 |
| 201.24 | REMOVING STUMP | EA | 22 |
| | | | |
| 203.2 | COMMON EXCAVATION | M3 | 15,200 |
| 203.21 | ROCK EXCAVATION | M3 | 200 |
| 203.25 | GRANULAR BORROW | M3 | 705 |
| 206.07 | STR ROCK EXC - DR & MINOR STR | M3 | 200 |
| 304.08 | AGGR BASE CRS - SCREENED | M3 | 2,800 |
| 304.1 | AGGR SUBB COURSE - GRAVEL | M3 | 9,550 |
| 403.207 | HOT MIX ASPHALT 19.0 MM | MG | 2,510 |
| 403.208 | HOT MIX ASPHALT 12.5 MM, SURFACE | MG | 2,150 |
| 403.209 | HOT MIX ASPHALT 9.5 MM (INCID.) | MG | 310 |
| 403.213 | HOT MIX ASPHALT 12.5 MM, BASE | MG | 2,130 |
| 409.15 | BITUMINOUS TACK COAT APPLIED | L | 2,820 |
| 502.341 | STR CONC ROADWAY MEDIAN | M3 | 40 |
| 603.15 | 300 MM CULVERT PIPE OPTION I | M | 33 |
| 603.159 | 300 MM CULVERT PIPE OPTION III | M | 2 |
| 603.17 | 450 MM CULVERT PIPE OPTION I | M | 171 |
| 603.175 | 450 MM RCP CLASS III | M | 134 |
| 603.179 | 450 MM CULVERT PIPE OPTION III | M | 77 |
| 603.199 | 600 MM CULVERT PIPE OPTION III | M | 25 |
| 603.225 | 1050 MM RCP CLASS III | M | 25 |
| 604.072 | CATCH BASIN TYPE A1-C | EA | 19 |
| 604.076 | 1500 MM CATCH BASIN TYPE A1-C | EA | 3 |
| 604.15 | MANHOLE | EA | 4 |
| 604.153 | 1500 MM MANHOLE | EA | 1 |
| 604.18 | ADJUST MANHOLE OR CB TO GRADE | EA | 4 |
| 604.2403 | CATCH BASIN INLET ASSEMBLY | EA | 1 |
| 605.09 | 150 MM UNDERDRAIN TYPE B | M | 335 |
| 605.12 | 375 MM UNDERDRAIN TYPE C | M | 105 |
| 605.13 | 450 MM UNDERDRAIN TYPE C | M | 275 |
| 605.15 | 600 MM UNDERDRAIN TYPE C | M | 110 |
| 609.11 | VERT CURB TYPE 1 | M | 1120 |
| 609.12 | VERT CURB TYPE 1- CIRCULAR | M | 90 |
| 609.234 | TERMINAL CURB TYPE 1 - 1.2 M | EA | 21 |
| 609.34 | CURB TYPE 5 | M | 850 |
| 609.35 | CURB TYPE 5 - CIRCULAR | M | 25 |
| 610.08 | PLAIN RIPRAP | M3 | 70 |
| 610.18 | STONE DITCH PROTECTION | M3 | 50 |
| 613.319 | EROSION CONTROL BLANKET | M2 | 675 |
| 615.07 | LOAM | M3 | 1100 |
| 618.1301 | SEEDING METHOD NUMBER 1 - PLAN QUANTIT | UN | 110 |
| 619.1201 | MULCH - PLAN QUANTITY | UN | 110 |
| 619.1401 | EROSION CONTROL MIX | M3 | 50 |
| 620.54 | STABILIZATION GEOTEXTILE | M2 | 18,500 |
| 621.037 | EVERGREEN TR (1500 MM - 1800 MM) GP A | EA | 10 |
| 621.267 | LG DECID TR (45 MM - 50 MM CAL) GP A | EA | 16 |
| 626.11 | PRECAST CONC JUNCTION BOX:___ | EA | 10 |
| 626.21 | METALLIC CONDUIT | M | 30 |
| 626.22 | NON-METALLIC CONDUIT | M | 415 |
| 626.33 | 750 MM FOUNDATION | EA | 4 |
| 626.35 | CONTROLLER CABINET FOUNDATION | EA | 1 |
| 627.711 | WH OR YELL PAINT PVMT MRK LINE (PL QUA | M | 3,900 |
| 627.75 | WHITE OR YELLOW PVMT AND CURB MARKING | M2 | 230 |
| 627.76 | TEMPORARY PVMT. MARK LINE, W OR YELLOW | LS | 1 |
| 629.05 | HAND LABOR, STRAIGHT TIME | HR | 100 |
| 631.1 | AIR COMPRESSOR (INC OPERATOR) | HR | 50 |
| 631.11 | AIR TOOL (INCLUDING OPERATOR) | HR | 50 |
| 631.12 | ALL-PURPOSE EXC (INC OPERATOR) | HR | 50 |
| 631.14 | GRADER (INCLUDING OPERATOR) | HR | 50 |
| 631.172 | TRUCK-LARGE (INC OPERATOR) | HR | 50 |
| 631.22 | FRONT END LOADER (INC OPER) | HR | 50 |
| 634.16 | HIGHWAY LIGHTING | LS | 1 |
| 639.18 | FIELD OFFICE TYPE A | EA | 1 |
| 643.8 | TRAFFIC SIGNAL AT SPRING/COUNTY | LS | 1 |
| 643.83 | VIDEO DETECTION SYSTEM | LS | 1 |
| 643.86 | TRAFFIC SIGNAL LOOP DETECTORS | EA | 8 |
| 643.92 | PEDESTAL POLE | EA | 2 |
| 645.1201 | TRUSS STRCTURE (FOR SIGNAL) | LS | 1 |
| 645.291 | ROADSIDE GUIDE SIGNS TYPE II | M2 | 45 |
| 645.292 | REG,WARN,CONF,RT SIGNS TYPE II | M2 | 15 |
| 652.31 | TYPE I BARRICADE | EA | 10 |
| 652.33 | DRUM | EA | 100 |
| 652.34 | CONE | EA | 100 |
| 652.35 | CONSTRUCTION SIGNS | M2 | 200 |
| 652.36 | MAINT OF TRAFFIC CONTR DEVICES | CD | 170 |
| 652.38 | FLAGGER | HR | 5,000 |
| 652.381 | UNIFORM TRAFFIC OFFICERS | HR | 300 |
| 652.41 | PORTABLE - CHANGE MESSAGE SIGN | EA | 4 |
| 656.75 | TEMP. SOIL EROSION AND WATER POLLUTION | LS | 1 |
| 658.2 | ACRYLIC LATEX FINISH, GREEN | M2 | 920 |
| 659.1 | MOBILIZATION | LS | 1 |
| 660.21 | OJT | HR | 2000 |
| 823.011 | GATE VALVE BOX, INSTALL ONLY | EA | 20 |
| 823.332 | GATE VALVE BOX, ADJUST TO GRADE | EA | 20 |

| PROJECT DESIGN ENGINEER | BY | DATE |
|---|---|---|
| DESIGN DETAILED | | |
| CHECKED | | |
| PLANS REVISIONS | | |
| FIELD CHANGES | | |

Filename: ...\gp-dgn\004_Estimate.dgn Division: HIGHWAY Username: dburgess Date:3/27/2007

METRIC
1. All dimensions are in millimeters unless otherwise noted.
2. All elevations and stations are in meters.

| F.H.W.A. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 1 | MAINE | NH-10551(00)X | 4 | 51 |

10551.00

**COMMON EXCAVATION FOR ESTIMATE**

| | | |
|---|---|---|
| COMMON EXCAVATION (FROM CROSS SECTIONS) | 11,066 | |
| EARTH FROM DRIVES, OLD ROAD, ETC. | 926 | |
| GRUBBING IN FILL | 331 | |
| CULVERT INLET AND OUTLET DITCHES | 25 | |
| PAVEMENT SALVAGE IN FILL | 2,770 | |
| TOTAL COMMON EXCAVATION | | 15,118 |

**FILL FOR BORROW CALCULATIONS**

| | | |
|---|---|---|
| COMMON FILL (FROM CROSS SECTIONS) | 926 | |
| GRUBBING IN FILL | 331 | |
| PAVEMENT SALVAGE IN FILL | 2,770 | |
| TOTAL FILL | | 4,027 |

**ROCK EXCAVATION FOR ESTIMATE**

| | | |
|---|---|---|
| ROCK EXCAVATION (FROM CROSS SECTIONS) | 400 | |
| TOTAL ROCK EXCAVATION | | 400 |

**UNCLASSIFIED EXCAVATION FOR ESTIMATE**

| | | |
|---|---|---|
| TOTAL COMMON EXCAVATION | 15,118 | |
| TOTAL ROCK EXCAVATION | 400 | |
| TOTAL UNCLASSIFIED EXCAVATION | | 15,518 |

**AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS**

| | | |
|---|---|---|
| (1) TOTAL COMMON EXCAVATION | | 15,118 |
| DEDUCTIONS: | | |
| GRUBBING IN FILL | 331 | |
| PAVEMENT SALVAGE (CUT & FILL) | 2,770 | |
| (2) TOTAL DEDUCTIONS | | 3,101 |
| TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2) | | 12,017 |
| TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY) | | |
| TOTAL AVAILABLE NON-ROCK EXCAVATION | | 12,017 |

**COMPUTATION OF WASTE STORAGE & WASTE MATERIAL**

| | | |
|---|---|---|
| TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS) | | |
| GRUBBING IN FILL | 331 | |
| TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL) | | 331 |
| TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED) | | 331 |

**COMPUTATION OF GRANULAR BORROW FOR ESTIMATE**

| | | |
|---|---|---|
| GRANULAR BORROW TO UPGRADE EXCAVATION | 613 | |
| GRANULAR BORROW = | 613 x 1.15= | 705 |

**COMPUTATION FOR COMMON BORROW FOR ESTIMATE**

| | | | |
|---|---|---|---|
| (3)TOTAL FILL | | | 4,027 |
| TOTAL AVAIL. NON-ROCK EXCAV. | 12,017 x 0.85 = | 10,214 | |
| TOTAL AVAIL. ROCK EXCAV. | 400 x 1.33 = | 532 | |
| (4)TOTAL AVAILABLE EXCAVATION | | = | 10,746 |
| BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION | | | -6,719 |

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED 7,050

n **7050 m3**

| | | |
|---|---|---|
| GRANULAR BORROW IN LOW WET AREAS | | 0 |
| GRANULAR BORROW TO UPGRADE EXCAVATION | | 613 |
| GRANULAR BORROW TO MAINTAIN TRAFFIC | | 0 |
| TOTAL FILL MINUS REQUIRED GRAN. BORR. WITHIN FILL | | 0 |
| COMMON BORROW = | 613 x 1.15 = | 705 |

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

# ESTIMATE QUANTITIES AND EARTH SUMMARY

WESTBROOK
COUNTY ROAD (STATE ROUTE 22)/
SPRING STREET