



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

Janet T. Mills  
GOVERNOR

Bruce A. Van Note  
COMMISSIONER

December 10, 2021  
Subject: Highway Reconstruction  
State WIN: 014862.00  
Location: **Lisbon**  
**Amendment No. 2**

Dear Sir/Ms.:

Please make the following changes to the Bid Documents:

In the Bid Book:

**REMOVE** from Amendment No. 1, Proposal Schedule of Items, 11 pages, dated 11/30/2021, and **REPLACE** with the attached, revised Proposal Schedule of Items, 11 pages, dated 12/10/2021.

**REMOVE** page 121, SPECIAL PROVISIONS – SECTION 634 – HIGHWAY LIGHTING – (Ornamental Lighting), 1 page, dated November 1, 2021, and **REPLACE** with the attached, revised SPECIAL PROVISIONS – SECTION 634 – HIGHWAY LIGHTING – (Ornamental Lighting), 1 page, dated December 9, 2021.

In the Plan Set:

**REMOVE** from Amendment No. 1, SHEET NUMBER 5 OF 144, ESTIMATED QUANTITIES, and **REPLACE** with the attached, revised SHEET NUMBER 5 OF 144, ESTIMATED QUANTITIES.

The following questions have been received:

**Question:** Could you please specify the intentions of item “626.421 – 24 Inch Diameter Foundation”? Item “634.71 – Ornamental Lighting (Inc. Foundation)” states it includes the foundation, however SP 634 states the foundation is paid for separately.

**Response:** See revised SPECIAL PROVISIONS – SECTION 634 – HIGHWAY LIGHTING – (Ornamental Lighting) and Schedule of Items.

**Question:** The quantity for bid item “603.169 – 15 Inch Culvert Pipe Option III” states 200 LF, but should be 20 LF as mentioned in Addendum #1.

**Response:** See revised Estimated Quantities Sheet and Schedule of Items.

**Question:** Addendum No. 1 contained a "Bid Form" that we feel has a couple of mistakes. After going through the "Drainage" sheets and the cross sections we believe the quantity for Item 603.169 "15 Inch Culvert Pipe Option III" should be 20 LF and not 200 LF. Also, the size of the pipe for Item 603.189 should be 24 Inch and not 21 Inch.

**Response:** See revised Estimated Quantities Sheet and Schedule of Items.

**Question:** When updating 603.169 15" culvert pipe option III in addendum #1 it appears that it was entered in on the schedule of items as 200LF instead of the 20LF.

**Response:** See revised Estimated Quantities Sheet and Schedule of Items.

**Question:** Does the State have station limits both right and left where Item 607.1701 "Temporary Chain Link Fence - 6' Moveable" and Item 607.44 "Safety Fence" will be required? After driving through the site, we don't believe the intent for these two items is the full length of the project.

**Response:** The pedestrian fence is not intended for entire project length, only areas where the Contractor feels they need to protect pedestrians from construction activities.

Consider these changes and information prior to submitting your bid on **December 15, 2021**.

Sincerely,

*Kevin Hanlon* for

George M. A. Macdougall P.E.  
Contracts & Specifications Engineer

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 014862.00

Project(s): 014862.00

SECTION: 1 Highway Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	107.531 BI-WEEKLY UPDATES	1.000 LS	_____	 _____	_____	 _____
0020	201.23 REMOVING SINGLE TREE TOP ONLY	35.000 EA	_____	 _____	_____	 _____
0030	201.24 REMOVING STUMP	40.000 EA	_____	 _____	_____	 _____
0040	202.15 REMOVING EXISTING MANHOLE OR CATCH BASIN	40.000 EA	_____	 _____	_____	 _____
0050	202.202 REMOVING PAVEMENT SURFACE	2,100.000 SY	_____	 _____	_____	 _____
0060	203.20 COMMON EXCAVATION	20,250.000 CY	_____	 _____	_____	 _____
0070	203.21 ROCK EXCAVATION	350.000 CY	_____	 _____	_____	 _____
0080	206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	100.000 CY	_____	 _____	_____	 _____
0090	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	17,590.000 CY	_____	 _____	_____	 _____
0100	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	2,009.000 T	_____	 _____	_____	 _____
0110	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	464.000 T	_____	 _____	_____	 _____
0120	403.211 HOT MIX ASPHALT (SHIMMING)	60.000 T	_____	 _____	_____	 _____

## Maine Department of Transportation

## Proposal Schedule of Items

Proposal ID: 014862.00

Project(s): 014862.00

SECTION: 1 Highway Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0130	403.213 HOT MIX ASPHALT 12.5 MM BASE	3,600.000 T	_____	 _____	_____	 _____
0140	409.15 BITUMINOUS TACK COAT - APPLIED	1,265.000 G	_____	 _____	_____	 _____
0150	602.30 FLOWABLE CONCRETE FILL	120.000 CY	_____	 _____	_____	 _____
0160	603.05 6 INCH PVC PIPE	80.000 LF	_____	 _____	_____	 _____
0170	603.132 8" CULV PIPE OPTION III	10.000 LF	_____	 _____	_____	 _____
0180	603.155 12 INCH REINFORCED CONCRETE PIPE CLASS III	90.000 LF	_____	 _____	_____	 _____
0190	603.159 12 INCH CULVERT PIPE OPTION III	20.000 LF	_____	 _____	_____	 _____
0200	603.169 15 INCH CULVERT PIPE OPTION III	20.000 LF	_____	 _____	_____	 _____
0210	603.175 18 INCH REINFORCED CONCRETE PIPE CLASS III	104.000 LF	_____	 _____	_____	 _____
0220	603.179 18 INCH CULVERT PIPE OPTION III	20.000 LF	_____	 _____	_____	 _____
0230	603.199 24 INCH CULVERT PIPE OPTION III	6.000 LF	_____	 _____	_____	 _____
0240	603.215 36 INCH REINFORCED CONCRETE PIPE CLASS III	24.000 LF	_____	 _____	_____	 _____

Maine Department of Transportation

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0250	603.219 36 INCH CULVERT PIPE OPTION III	160.000 LF	_____	 _____	_____	 _____
0260	603.55 CONCRETE PIPE TIES	2.000 GP	_____	 _____	_____	 _____
0270	604.072 CATCH BASIN TYPE A1-C	8.000 EA	_____	 _____	_____	 _____
0280	604.077 72 INCH CATCH BASIN TYPE A1-C	2.000 EA	_____	 _____	_____	 _____
0290	604.09 CATCH BASIN TYPE B1	8.000 EA	_____	 _____	_____	 _____
0300	604.092 CATCH BASIN TYPE B1-C	11.000 EA	_____	 _____	_____	 _____
0310	604.093 60 INCH CATCH BASIN TYPE B1	3.000 EA	_____	 _____	_____	 _____
0320	604.094 72 INCH CATCH BASIN TYPE B1	4.000 EA	_____	 _____	_____	 _____
0330	604.0957 96" CATCH BASIN TYPE B1-C	2.000 EA	_____	 _____	_____	 _____
0340	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	3.000 EA	_____	 _____	_____	 _____
0350	604.262 CATCH BASIN TYPE B5-C	3.000 EA	_____	 _____	_____	 _____
0360	604.2622 72 " CATCH BASIN TYPE B5-C	2.000 EA	_____	 _____	_____	 _____
0370	605.09 6 INCH UNDERDRAIN TYPE B	5,800.000 LF	_____	 _____	_____	 _____

Maine Department of Transportation

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			Dollars	Cents	Dollars	Cents
0380	605.11 12 INCH UNDERDRAIN TYPE C	1,130.000 LF	_____	 _____	_____	 _____
0390	605.12 15 INCH UNDERDRAIN TYPE C	1,450.000 LF	_____	 _____	_____	 _____
0400	605.13 18 INCH UNDERDRAIN TYPE C	120.000 LF	_____	 _____	_____	 _____
0410	605.15 24 INCH UNDERDRAIN TYPE C	1,200.000 LF	_____	 _____	_____	 _____
0420	605.17 30 INCH UNDERDRAIN TYPE C	1,100.000 LF	_____	 _____	_____	 _____
0430	605.18 36 INCH UNDERDRAIN TYPE C	20.000 LF	_____	 _____	_____	 _____
0440	606.52 MAILBOX REMOVE & RESET	22.000 EA	_____	 _____	_____	 _____
0450	607.1701 TEMPORARY CHAIN LINK FENCE - 6' MOVEABLE	800.000 LF	_____	 _____	_____	 _____
0460	607.24 REMOVE AND RESET FENCE	170.000 LF	_____	 _____	_____	 _____
0470	607.39 PEDESTRIAN FENCE	50.000 LF	_____	 _____	_____	 _____
0480	607.44 SAFETY FENCE	100.000 LF	_____	 _____	_____	 _____
0490	608.07 PLAIN CONCRETE SIDEWALK	2,600.000 SY	_____	 _____	_____	 _____
0500	608.10 BRICK SIDEWALK, REMOVE AND REBUILD	10.000 SY	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0510	608.26 CURB RAMP DETECTABLE WARNING FIELD	675.000 SF	_____	 _____	_____	 _____
0520	609.11 VERTICAL CURB TYPE 1	2,600.000 LF	_____	 _____	_____	 _____
0530	609.1101 SPECIAL GRANITE CURB - 48"	410.000 LF	_____	 _____	_____	 _____
0540	609.12 VERTICAL CURB TYPE 1 - CIRCULAR	90.000 LF	_____	 _____	_____	 _____
0550	609.21 CONCRETE SLIPFORM CURB	3,800.000 LF	_____	 _____	_____	 _____
0560	609.221 TERMINAL CURB TYPE 1	900.000 LF	_____	 _____	_____	 _____
0570	609.222 TERMINAL CURB TYPE 1 - CIRCULAR	70.000 LF	_____	 _____	_____	 _____
0580	609.38 RESET CURB TYPE 1	30.000 LF	_____	 _____	_____	 _____
0590	610.08 PLAIN RIPRAP	5.000 CY	_____	 _____	_____	 _____
0600	615.07 LOAM	500.000 CY	_____	 _____	_____	 _____
0610	618.13 SEEDING METHOD NUMBER 1	40.000 UN	_____	 _____	_____	 _____
0620	619.12 MULCH	40.000 UN	_____	 _____	_____	 _____
0630	620.54 STABILIZATION/REINFORCEMENT GEOTEXTILE	1,000.000 SY	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0640	620.58 EROSION CONTROL GEOTEXTILE	20.000 SY	_____	 _____	_____	 _____
0650	626.22 NON-METALLIC CONDUIT	2,650.000 LF	_____	 _____	_____	 _____
0660	626.35 CONTROLLER CABINET FOUNDATION	1.000 EA	_____	 _____	_____	 _____
0670	626.421 24 INCH DIAMETER FOUNDATION	112.000 LF	_____	 _____	_____	 _____
0680	627.18 12 " SOLID WHITE PAVEMENT MARKING	310.000 LF	_____	 _____	_____	 _____
0690	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	16,300.000 LF	_____	 _____	_____	 _____
0700	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	1,300.000 SF	_____	 _____	_____	 _____
0710	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	15,000.000 LF	_____	 _____	_____	 _____
0720	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	25.000 HR	_____	 _____	_____	 _____
0730	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	25.000 HR	_____	 _____	_____	 _____
0740	631.20 STUMP CHIPPER (INCLUDING OPERATOR)	25.000 HR	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0750	634.16 HIGHWAY LIGHTING	LUMP SUM	LUMP SUM		_____	_____
0760	634.70 ORNAMENTAL LIGHTING	16.000 EA	_____	_____	_____	_____
0770	634.732 REMOVE OR MODIFY LIGHT POLE (INC. FOUNDATION)	16.000 LS	_____	_____	_____	_____
0780	639.18 FIELD OFFICE TYPE A	1.000 EA	_____	_____	_____	_____
0790	642.15 PRECAST CONCRETE STEPS	1.000 EA	_____	_____	_____	_____
0800	642.1811 REMOVE AND RESET GRANITE STEPS	LUMP SUM	LUMP SUM		_____	_____
0810	645.106 DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	37.000 EA	_____	_____	_____	_____
0820	645.116 REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	27.000 EA	_____	_____	_____	_____
0830	645.292 REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS TYPE II	160.000 SF	_____	_____	_____	_____
0840	652.31 TYPE I BARRICADE	7.000 EA	_____	_____	_____	_____
0850	652.312 TYPE III BARRICADE	4.000 EA	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0860	652.33 DRUM	50.000 EA	_____	 _____	_____	 _____
0870	652.34 CONE	100.000 EA	_____	 _____	_____	 _____
0880	652.35 CONSTRUCTION SIGNS	720.000 SF	_____	 _____	_____	 _____
0890	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	365.000 CD	_____	 _____	_____	 _____
0900	652.38 FLAGGER	12,250.000 HR	_____	 _____	_____	 _____
0910	652.381 TRAFFIC OFFICER	100.000 HR	_____	 _____	_____	 _____
0920	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	4.000 EA	_____	 _____	_____	 _____
0930	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM		 LUMP SUM	_____	 _____
0940	658.20 ACRYLIC LATEX COLOR FINISH, GREEN	60.000 SY	_____	 _____	_____	 _____
0950	659.10 MOBILIZATION	LUMP SUM		 LUMP SUM	_____	 _____
0960	801.03 TEST PITS	70.000 EA	_____	 _____	_____	 _____
0970	801.132 2 INCH FORCE MAIN	40.000 LF	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 014862.00

Project(s): 014862.00

SECTION: 1 Highway Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0980	801.141 4" PVC SANITARY SEWER (SDR-35)	100.000 LF	_____	 _____	_____	 _____
0990	801.16 6 INCH PVC SANITARY SEWER (SDR-35)	100.000 LF	_____	 _____	_____	 _____
1000	801.17 8 INCH PVC SANITARY SEWER (SDR-35)	235.000 LF	_____	 _____	_____	 _____
1010	801.175 10 INCH PVC SANITARY SEWER	2,920.000 LF	_____	 _____	_____	 _____
1020	801.18 12 INCH PVC SANITARY SEWER (SDR-35)	1,500.000 LF	_____	 _____	_____	 _____
1030	803.134 4 INCH SERVICE LEADS	1,800.000 LF	_____	 _____	_____	 _____
1040	803.135 6 INCH SERVICE LEADS	500.000 LF	_____	 _____	_____	 _____
1050	803.173 SEWER MANHOLE - 4 FOOT DIAMETER	16.000 EA	_____	 _____	_____	 _____
1060	803.181 REMOVE/ ABANDON MANHOLE	17.000 EA	_____	 _____	_____	 _____
1070	812.17 SEWER DROP MANHOLE	4.000 EA	_____	 _____	_____	 _____
1080	822.33 6 INCH CLASS 52 DUCTILE IRON PIPE	48.000 LF	_____	 _____	_____	 _____
1090	822.34 8 INCH CLASS 52 DUCTILE IRON PIPE	558.000 LF	_____	 _____	_____	 _____

Maine Department of Transportation

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1100	822.36 12 INCH DUCTILE IRON PIPE	5,422.000 LF	_____	 _____	_____	 _____
1110	823.31 12 INCH GATE VALVE	21.000 EA	_____	 _____	_____	 _____
1120	823.3251 8 INCH GATE VALVE WITH BOX	11.000 EA	_____	 _____	_____	 _____
1130	823.3252 8" TAPPING SLEEVE AND VALVE	1.000 EA	_____	 _____	_____	 _____
1140	823.33 6 INCH GATE VALVE WITH BOX	3.000 EA	_____	 _____	_____	 _____
1150	824.30 FIRE HYDRANT	12.000 EA	_____	 _____	_____	 _____
1160	824.32 REMOVE/RESET HYDRANT	1.000 EA	_____	 _____	_____	 _____
1170	825.32 2 INCH CORPORATION w/ Saddle	15.000 EA	_____	 _____	_____	 _____
1180	825.321 1 INCH CORPORATION	81.000 EA	_____	 _____	_____	 _____
1190	825.322 2" CURB STOP w/ Box	13.000 EA	_____	 _____	_____	 _____
1200	825.33 1 INCH CORP STOP	83.000 EA	_____	 _____	_____	 _____
1210	825.42 2" COPPER SERVICE	287.000 LF	_____	 _____	_____	 _____
1220	825.43 1" COPPER SERVICE	2,175.000 LF	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1230	827.30 ROCK EXCAVATION- REMOVE AND REFILL	150.000 CY	_____	 _____	_____	 _____
1240	827.301 ROCK EXCAVATION WATER MAIN	100.000 CY	_____	 _____	_____	 _____
1250	827.302 UNSUITABLE SOIL EXCAVATION - BELOW GRADE	250.000 CY	_____	 _____	_____	 _____
1260	827.331 TRENCH INSULATION	130.000 SY	_____	 _____	_____	 _____
1270	827.3641 REMOVE AND DISPOSE ASBESTOS CEMENT PIPE	3,000.000 LF	_____	 _____	_____	 _____
Section: 1			Total:		_____	 _____
			Total Bid:		_____	 _____

SPECIAL PROVISIONS  
SECTION 634  
HIGHWAY LIGHTING  
(Ornamental Lighting)

Description. The Contractor shall furnish and install all materials and equipment required for complete, functioning and accepted ornamental light standards with light emitting diode luminaires, as shown on the plans and as directed.

General. Light standards with LED luminaires for highway lighting and sidewalk lighting on this project shall be as manufactured by Sternberg Lighting and specified on the plans and in this special provision. Contact:

Apex Lighting Solutions  
Attention: Sylvia A. Perdikis, PLA  
Tel.: 1-860-707-3024  
E-mail: SPerdikis@apexltg.com

All materials and installation requirements for Ornamental Lighting shall comply with Section 634 of the Standard Specifications except as modified on the project plans or in this Special Provision.

Method of Measurement. Ornamental Lighting, satisfactorily installed and accepted, will be measured for payment by the single unit each.

Basis of Payment. The accepted quantity of Ornamental Lighting will be paid for at the contract unit price each. Payment for each shall be full compensation for the ornamental light standard, ornamental pole base, single hook planter arm, double banner arms mounted to opposite side of planter arm and measure 36" between post centers, weather-resistant (WR) receptacles, ornamental fixture housing light emitting diode luminaire fixture and incidentals necessary for installation of the pole and fixture. Conduit for power to Ornamental Lighting, foundations, and junction boxes will be paid separately under applicable Section 626 pay items of the contract. All other work and materials necessary to provide the highway and sidewalk lighting system shown on the plans, will be paid by lump sum payment under Item 634.160 Highway Lighting.

Payment will be made under:

634.70	<u>Pay Item</u> Ornamental Lighting	<u>Pay Unit</u> Each
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Date: \$date\$

Username:

Division: HIGHWAY

Filename: ... \005\_Estimated Quantities.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
107.531	PROSECUTION OF WORK - BIWEEKLY UPDATES	1	LS
201.23	REMOVING SINGLE TREE TOP ONLY	35	EA
201.24	REMOVING STUMP	40	EA
202.15	REMOVING EXISTING MANHOLE OR CATCH BASIN	40	EA
202.202	REMOVING PAVEMENT SURFACE	2,100	SY
203.20	COMMON EXCAVATION	20,250	CY
203.21	ROCK EXCAVATION	350	CY
206.07	STRUCTURAL ROCK EXCAVATION - DRAINAGE & MINOR STRUCTURES	100	CY
304.10	AGGREGATE SUBBASE COURSE GRAVEL	17,500	CY
403.2081	HOT MIX ASPHALT - 12.5 MM (POLYMER MODIFIED)	1,980	T
403.209	HOT MIX ASPHALT 9.5mm (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	450	T
403.211	HOT MIX ASPHALT (SHIMMING)	60	T
403.213	HOT MIX ASPHALT, 12.5mm (BASE AND INTERMEDIATE BASE COURSE)	3,600	T
409.15	BITUMINOUS TACK COAT - APPLIED	1,265	G
603.05	6 INCH POLYVINYLCHLORIDE PIPE	80	LF
603.132	8 INCH CULV PIPE OPTION III	10	LF
603.155	12 INCH RCP CLASS III	90	LF
603.159	12 INCH CULVERT PIPE OPTION III	20	LF
603.169	15 INCH CULVERT PIPE OPTION III	20	LF
603.175	18 INCH RCP CLASS III	104	LF
603.179	18 INCH CULVERT PIPE OPTION III	20	LF
603.199	24" CULVERT PIPE OPTION III	6	LF
603.215	36" RCP CLASS III	24	LF
603.219	36 INCH CULVERT PIPE OPTION III	160	LF
603.55	CONCRETE PIPE TIES	2	GP
604.072	CATCH BASIN TYPE A1-C	8	EA
604.077	72" CATCH BASIN TYPE A1-C	2	EA
604.09	CATCH BASIN TYPE B1	8	EA
604.092	CATCH BASIN TYPE B1-C	11	EA
604.093	60" CATCH BASIN TYPE B1	3	EA
604.094	72" CATCH BASIN TYPE B1	4	EA
604.0957	98" CATCH BASIN TYPE B1-C	2	EA
604.18	ADJUST MANHOLE OR CB TO GRADE	3	EA
604.262	CATCH BASIN TYPE B5-C	3	EA
604.2622	72" CATCH BASIN TYPE B5-C	2	EA
605.09	6 INCH UNDERDRAIN TYPE B	5,800	LF
605.11	12 INCH UNDERDRAIN TYPE C	1,130	LF
605.12	15 INCH UNDERDRAIN TYPE C	1,450	LF
605.13	18 INCH UNDERDRAIN TYPE C	120	LF
605.15	24 INCH UNDERDRAIN TYPE C	1,200	LF
605.17	30 INCH UNDERDRAIN TYPE C	1,100	LF
605.18	36 INCH UNDERDRAIN TYPE C	20	LF
606.52	MAILBOX REMOVE AND RESET	22	EA
607.1701	TEMPORARY CHAIN LINK FENCE-6' MOVABLE	800	LF
607.24	REMOVE AND RESET FENCE	170	LF
607.39	PEDESTRIAN FENCE	50	LF
607.44	SAFETY FENCE	100	LF
608.07	PLAIN CONCRETE SIDEWALK	2,600	SY
608.10	BRICK SIDEWALK (REMOVE AND REBUILD)	10	SY
608.26	CURB RAMP DETECTABLE WARNING FIELD	675	SF
609.11	VERTICAL CURB TYPE 1	2,600	LF
609.1101	SPECIAL GRANITE CURB - 48"	410	LF
609.12	VERTICAL CURB TYPE 1 - CIRCULAR	90	LF
609.21	CONCRETE SLIPFORM CURB	3,800	LF
609.221	TERMINAL CURB TYPE 1	900	LF
609.222	TERMINAL CURB TYPE 1 - CIRCULAR	70	LF
609.38	RESET CURB TYPE 1	30	LF
610.08	PLAIN RIPRAP	5	CY
615.07	LOAM	500	CY
618.13	SEEDING METHOD NUMBER 1	40	UN
619.12	MULCH	40	UN
620.54	STABILIZATION/REINFORCEMENT GEOTEXTILE	1,000	SY
620.58	EROSION CONTROL GEOTEXTILE	20	SY
626.22	NON-METALLIC CONDUIT	2,650	LF
626.421	24 INCH FOUNDATION	112	LF
626.35	CONTROLLER CABINET FOUNDATION	1	EA
627.18	12 INCH SOLID WHITE PAVEMENT MARKING LINE	310	LF
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	16,300	LF
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	1,300	SF
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	15,000	LF
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	25	HR
631.172	TRUCK-LARGE (INCLUDING OPERATOR)	25	HR
631.20	STUMP CHIPPER RENTAL (INCLUDING OPERATOR)	25	HR
634.160	HIGHWAY LIGHTING	1	LS
634.70	ORNAMENTAL LIGHTING	16	EA
634.732	REMOVE EXISTING LIGHT POLE (INC. FOUNDATION)	16	LS
639.18	FIELD OFFICE, TYPE A	1	EA
642.15	PRECAST CONCRETE STEPS	1	EA
642.1811	REMOVE AND RESET GRANITE STEPS	1	LS
645.106	DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	37	EA
645.116	REINSTALL REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	27	EA
645.292	REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS, TYPE II	160	SF
652.31	TYPE I BARRICADE	7	EA
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	50	EA
652.34	CONE	100	EA
652.35	CONSTRUCTION SIGNS	720	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	250	CD
652.38	FLAGGERS	8,750	HR
652.381	TRAFFIC OFFICER	100	HR
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	4	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
658.20	ACRYLIC LATEX COLOR FINISH	60	SY
659.10	MOBILIZATION	1	LS
801.141	4 in. PVC SANITARY SEWER (SDR-35)	100	LF
801.16	6 in. PVC SANITARY SEWER (SDR-35)	100	LF

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
SEWER LINE			
304.10	AGGREGATE SUBBASE COURSE GRAVEL	10	CY
403.2081	HOT MIX ASPHALT - 12.5 MM (POLYMER MODIFIED)	5	T
403.209	IX ASPHALT 9.5mm (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	2	T
602.30	FLOWABLE CONCRETE FILL	40	CY
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	75	CD
652.38	FLAGGERS	1500	HR
801.03	TEST PITS	60	EA
801.132	2" FORCE MAIN	40	LF
801.17	8" PVC SANITARY SEWER (SDR-35)	235	LF
801.175	10" PVC SANITARY SEWER (SDR-35)	2920	LF
801.18	12" PVC SANITARY SEWER (SDR-35)	1500	LF
803.134	4" SERVICE LEADS	1800	LF
803.135	6" SERVICE LEADS	500	LF
803.173	SEWER MANHOLE - 4 FOOT DIAMETER	16	EA
803.181	REMOVE/ABANDON MANHOLE	17	EA
812.17	SEWER DROP MANHOLE	4	EA
827.30	ROCK EXCAVATION REMOVE AND REFILL	150	CY
827.302	UNSUITABLE SOIL EXCAVATION - BELOW GRADE	50	CY
827.331	TRENCH INSULATION	100	SY
827.3641	REMOVE AND DISPOSE ASBESTOS CEMENT PIPE	3000	LF

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
WATER LINE			
304.10	AGGREGATE SUBBASE COURSE GRAVEL	80	CY
403.2081	HOT MIX ASPHALT - 12.5 MM (POLYMER MODIFIED)	24	T
403.209	IX ASPHALT 9.5mm (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	12	T
602.30	FLOWABLE CONCRETE FILL	80	CY
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	40	CD
652.38	FLAGGERS	2000	HR
801.03	TEST PITS	10	EA
822.33	6 INCH CLASS 52 DUCTILE IRON PIPE	48	LF
822.34	8 INCH CLASS 52 DUCTILE IRON PIPE	558	LF
822.36	12 INCH DUCTILE IRON PIPE	5422	LF
823.31	12 INCH GATE VALVE	21	EA
823.3251	8 INCH GATE VALVE WITH BOX	11	EA
823.3252	8" TAPPING SLEEVE AND VALVE	1	EA
823.33	6 INCH GATE VALVE WITH BOX	3	EA
824.30	FIRE HYDRANT	12	EA
824.32	REMOVE/RESET HYDRANT	1	EA
825.32	2" CORPORATION WITH SADDLE	15	EA
825.32	1" CORPORATION	81	EA
825.32	2" CURB STOP WITH BOX	13	EA
825.33	1" CURB STOP	83	EA
825.42	2" COPPER SERVICE	287	LF
825.43	1" COPPER SERVICE	2175	LF
827.301	ROCK EXCAVATION WATER MAIN	100	CY
827.302	UNSUITABLE SOIL EXCAVATION - BELOW GRADE	200	CY
827.331	TRENCH INSULATION	30	SY

**EARTHWORK SUMMARY**

**COMMON EXCAVATION FOR ESTIMATE**

COMMON EXCAVATION (FROM MODEL OR PLANS)	18800
GRUBBING IN FILL	1
LOAM SALVAGE IN FILL	0
UNDERCUT	0
MUCK EXCAVATION	0
PEAT EXCAVATION	0
CULVERT INLET AND OUTLET DITCHES	0
PAVEMENT SALVAGE IN FILL	0
<b>TOTAL COMMON EXCAVATION</b>	<b>18801</b>

**FILL FOR BORROW CALCULATIONS**

COMMON FILL (FROM MODEL OR PLANS)	610
GRUBBING IN FILL	1
LOAM SALVAGE IN FILL	0
UNDERCUT	0
MUCK EXCAVATION	0
PEAT EXCAVATION	0
PAVEMENT SALVAGE IN FILL	0
RECYCLED PAVEMENT REMOVAL IN FILL	0
<b>TOTAL FILL</b>	<b>611</b>

**ROCK EXCAVATION FOR ESTIMATE**

ROCK EXCAVATION (FROM CROSS SECTIONS)	0
ROCK EXCAVATION (BOULDERS)	360
<b>TOTAL ROCK EXCAVATION</b>	<b>360</b>

**AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS**

ALL DEDUCTIONS:	
GRUBBING IN CUT	770
GRUBBING IN FILL	1
LOAM SALVAGE IN CUT	0
LOAM SALVAGE IN FILL	0
UNDERCUT	0
MUCK EXCAVATION	0
PEAT EXCAVATION	0
PAVEMENT SALVAGE (CUT & FILL)	5500
<b>TOTAL DEDUCTIONS</b>	<b>6271</b>

TOTAL AVAILABLE COMMON EXCAVATION (-) TOTAL DEDUCTIONS	12530
TOTAL AVAILABLE STRUCTURAL EXCAVATION (UNDERDRAIN ONLY)	3730
RIPRAP EXCAVATION	5

TOTAL AVAILABLE NON-ROCK EXCAVATION 16265

**COMPUTATION OF WASTE STORAGE & WASTE MATERIAL**

TOTAL AVAILABLE WASTE STORAGE AREA (FROM CROSS SECTIONS)	0
GRUBBING IN CUT	770
GRUBBING IN FILL	1
UNDERCUT	0
MUCK EXCAVATION	0
PEAT EXCAVATION	0
TOTAL WASTE MATERIAL	771

TOTAL WASTE MATERIAL TO BE UTILIZED\*

TOTAL WASTE MATERIAL TO BE WASTED 771

**COMPUTATION FOR GRANULAR BORROW FOR ESTIMATE**

GRANULAR BORROW TO REPLACE MUCK	0
GRANULAR BORROW TO REPLACE PEAT	0
GRANULAR BORROW IN LOW WET AREAS	0
GRANULAR BORROW FOR EMBANKMENT CONSTRUCTION NEAR BOX CULVERTS	0
GRANULAR BORROW TO MAINTAIN TRAFFIC	0
GRANULAR BORROW FOR UNDERCUTTING	0
GRANULAR BORROW FOR CULVERT BEDDING	26
<b>TOTAL GRANULAR BORROW</b>	<b>26</b>

**COMPUTATION FOR SURPLUS MATERIAL OR COMMON BORROW FOR ESTIMATE**

TOTAL AVAILABLE NON-ROCK EXCAVATION	16265 x 0.90 =	14638.5
TOTAL AVAILABLE ROCK EXCAVATION	360 x 1.30 =	468
TOTAL AVAILABLE STRUCTURAL ROCK EXCAVATION	x 1.30 =	0
TOTAL WASTE MATERIAL TO BE UTILIZED	0 x 0.90 =	0

TOTAL AVAILABLE EXCAVATION 15107

BORROW NEEDED = TOTAL FILL (-) TOTAL AVAILABLE EXCAVATION 0

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION (-) TOTAL FILL, (+) TOTAL WASTE MATERIAL TO BE WASTED 15267

**SURPLUS MATERIAL 15267 CY**

GRANULAR BORROW IN LOW WET AREAS	0
GRANULAR BORROW TO MAINTAIN TRAFFIC	0
BORROW NEEDED (-) REQUIRED GRANULAR BORROW WITHIN FILL	0

**COMMON BORROW 0 CY**

**NOTE:**  
ALL CALCULATIONS ARE IN CUBIC YARDS

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	STP-1486(200)	WIN 14862.00	HIGHWAY PLANS
ESTIMATED QUANTITIES			
SHEET NUMBER			
5			
OF 144			