



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

Janet T. Mills
GOVERNOR

Bruce A. Van Note
COMMISSIONER

September 10, 2024
Subject: Highway Rehabilitation
State WIN: 020267.00
Location: Acton
Amendment No. 2

Dear Sir/Ms.:

Make the Following changes to the bid documents:

In the Bid Book:

Remove pages seventeen through twenty-three titled Proposal Schedule of Items 8/27/2024 and **Replace** with the attached Proposal Schedule of Items dated 9/13/2024 Totaling seven pages

In the Plan Sheet:

Remove Sheet three titled TYPICAL SECTION – 2 dated 8/16/2024 and **Replace** with the attached TYPICAL SECTION - 2 dated 9/12/2024

Remove Sheet 6 Titled ESTIMATED QUANTITIES dated 8/16/2024 and **Replace** with the attached ESTIMATED QUANTITIES dated 9/12/2024

The following questions have been received:

Question: Will a pay item for cones and barrels be provided?

Response: Yes. Please see amended schedule of items and revised plan Sheet 6.

Question: If option 2 is chosen will removal of pavement be paid for under common excavation for both the base bid and option 2? If not, what pay item will pavement removal be paid for in the base bid and option 2?

Response: If Option 2 is chosen, pavement removal will be paid for under common excavation, and the additional common excavation quantity listed under Option 2 must be bid, in addition to the common excavation quantity in the base bid.

Question: In full reconstruction sections will 4" or 5" of reclaim be required to be installed? Will the installation of the reclaim for the base bid be paid for under 304.10? If not, which pay item will installation of reclaim be paid for in full reconstruction sections under the base bid?

Response: 5" of reclaim will be installed. Please see updated typical section.

Question: If the contractor chooses option 2 and does not reclaim or mill the road will the DOT require the rough pavement excavated to be delivered to the MDOT Shapleigh Yard?

Response: Yes.

Question: If option 1 is selected will all the reclaimed pavement be removed to allow for variable depth subbase gravel installation and then reinstalled at a depth of 5" with emulsified asphalt per detail of sheet 2?

Response: In reconstruction areas, yes. In rehabilitation areas, reclaim will occur to the depth necessary to accommodate the proposed finished grade, and may result in leaving existing pavement, atop which the recycled asphalt pavement with emulsifier will be placed.

Question: For the stations not called out on sheet 2 (Option 1 or 2) or sheet 3 (Full Reconstruction) of the plan set what roadway construction will be required. Example STA 88+50 to 90+50 among others?

Response: These are superelevation transition areas and will receive the corresponding treatment (rehabilitation or reconstruction) as indicated on the plan sheets.

Consider these changes and information prior to submitting your bid on **September 25, 2024**.

Sincerely,



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

9/13/2024

Maine Department of Transportation

Proposal Schedule of Items

Page 1 of 7

Proposal ID: 020267.00

Project(s): 020267.00

SECTION: 1 INITIAL GROUP

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	201.11 CLEARING	6.000 AC	_____	_____	_____	_____
0020	201.23 REMOVING SINGLE TREE TOP ONLY	26.000 EA	_____	_____	_____	_____
0030	201.24 REMOVING STUMP	28.000 EA	_____	_____	_____	_____
0040	203.20 COMMON EXCAVATION	41,000.000 CY	_____	_____	_____	_____
0050	203.21 ROCK EXCAVATION	3,975.000 CY	_____	_____	_____	_____
0060	203.25 GRANULAR BORROW	100.000 CY	_____	_____	_____	_____
0070	203.33 SPECIAL FILL	100.000 CY	_____	_____	_____	_____
0080	206.061 STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	50.000 CY	_____	_____	_____	_____
0090	206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	100.000 CY	_____	_____	_____	_____
0100	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	18,100.000 CY	_____	_____	_____	_____
0110	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	210.000 T	_____	_____	_____	_____
0120	403.21041 HMA 9.5 MM – POLYMER MODIFIED THIN LIFT SURFACE TREATMENT	2,150.000 T	_____	_____	_____	_____

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Proposal Schedule of Items

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Proposal ID: 020267.00

Project(s): 020267.00

SECTION: 1 INITIAL GROUP

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	403.2111 9.5 MM POLYMER MODIFIED HMA (SHIM)	100.000 T	_____	 _____	_____	 _____
0140	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	4,300.000 T	_____	 _____	_____	 _____
0150	409.15 BITUMINOUS TACK COAT - APPLIED	1,250.000 G	_____	 _____	_____	 _____
0160	508.13 SHEET WATERPROOFING MEMBRANE	LUMP SUM	LUMP SUM	 _____	_____	 _____
0170	511.07 COFFERDAM: DOWNSTREAM	LUMP SUM	LUMP SUM	 _____	_____	 _____
0180	511.07 COFFERDAM: UPSTREAM	LUMP SUM	LUMP SUM	 _____	_____	 _____
0190	524.301 TEMPORARY STRUCTURAL SUPPORT , ROADWAY	LUMP SUM	LUMP SUM	 _____	_____	 _____
0200	526.301 PORTABLE CONCRETE BARRIER TYPE I	LUMP SUM	LUMP SUM	 _____	_____	 _____
0210	527.34 WORK ZONE CRASH CUSHIONS	2.000 UN	_____	 _____	_____	 _____
0220	534.71 PRECAST CONCRETE BOX CULVERT	LUMP SUM	LUMP SUM	 _____	_____	 _____
0230	603.16 15 INCH CULVERT PIPE OPTION I	820.000 LF	_____	 _____	_____	 _____
0240	603.17 18 INCH CULVERT PIPE OPTION I	64.000 LF	_____	 _____	_____	 _____

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Proposal Schedule of Items

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Proposal ID: 020267.00

Project(s): 020267.00

SECTION: 1 INITIAL GROUP

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
0250	603.175 18 INCH REINFORCED CONCRETE PIPE CLASS III	760.000 LF	_____	 _____	_____	 _____
0260	603.43 36 INCH REINFORCED CONCRETE PIPE CLASS IV	130.000 LF	_____	 _____	_____	 _____
0270	603.55 CONCRETE PIPE TIES	44.000 GP	_____	 _____	_____	 _____
0280	604.092 CATCH BASIN TYPE B1-C	2.000 EA	_____	 _____	_____	 _____
0290	605.09 6 INCH UNDERDRAIN TYPE B	1,950.000 LF	_____	 _____	_____	 _____
0300	605.11 12 INCH UNDERDRAIN TYPE C	430.000 LF	_____	 _____	_____	 _____
0310	606.1301 31" W-BM GR, MID-WAY SPLICE-SGL FACED	375.000 LF	_____	 _____	_____	 _____
0320	606.1303 31" W-BM GR, MID-WAY SPLICE-15' RAD AND LESS	50.000 LF	_____	 _____	_____	 _____
0330	606.1305 31" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	2.000 EA	_____	 _____	_____	 _____
0340	606.1722 BRIDGE TRANSITION - TYPE 2	1.000 EA	_____	 _____	_____	 _____
0350	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	2.000 EA	_____	 _____	_____	 _____
0360	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	12.000 EA	_____	 _____	_____	 _____

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Proposal Schedule of Items

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Proposal ID: 020267.00

Project(s): 020267.00

SECTION: 1 INITIAL GROUP

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
0370	606.356 UNDERDRAIN DELINEATOR POST	25.000 EA				
0380	606.47 SINGLE WOOD POST	15.000 EA				
0390	609.31 CURB TYPE 3	1,440.000 LF				
0400	610.08 PLAIN RIPRAP	810.000 CY				
0410	610.18 STONE DITCH PROTECTION	160.000 CY				
0420	610.210 STREAM CHANNEL ROCK	66.000 CY				
0430	610.212 STREAMBED ROCK FEATURES	2.000 CY				
0440	613.319 EROSION CONTROL BLANKET	7,300.000 SY				
0450	615.07 LOAM	3,280.000 CY				
0460	618.13 SEEDING METHOD NUMBER 1	17.000 UN				
0470	618.14 SEEDING METHOD NUMBER 2	520.000 UN				
0480	619.12 MULCH	540.000 UN				
0490	620.58 EROSION CONTROL GEOTEXTILE	2,550.000 SY				

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Proposal Schedule of Items

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Proposal ID: 020267.00

Project(s): 020267.00

SECTION: 1 INITIAL GROUP

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
0500	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	34,860.000 LF	_____	 _____	_____	 _____
0510	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	69,720.000 LF	_____	 _____	_____	 _____
0520	629.05 HAND LABOR, STRAIGHT TIME	100.000 HR	_____	 _____	_____	 _____
0530	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	30.000 HR	_____	 _____	_____	 _____
0540	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	30.000 HR	_____	 _____	_____	 _____
0550	631.20 STUMP CHIPPER (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
0560	631.221 SMALL FRONT-END LOADER (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
0570	639.18 FIELD OFFICE TYPE A	1.000 EA	_____	 _____	_____	 _____
0580	642.15 PRECAST CONCRETE STEPS	1.000 EA	_____	 _____	_____	 _____
0590	643.72 TEMPORARY TRAFFIC SIGNAL	LUMP SUM	LUMP SUM		_____	 _____
0592	652.31 TYPE I BARRICADE	25.000 EA	_____	 _____	_____	 _____

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Maine Department of Transportation

Proposal Schedule of Items

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Proposal ID: 020267.00

Project(s): 020267.00

SECTION: 1 INITIAL GROUP

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
0594	652.33 DRUM	25.000 EA	_____	 _____	_____	 _____
0596	652.34 CONE	150.000 EA	_____	 _____	_____	 _____
0598	652.35 CONSTRUCTION SIGNS	650.000 SF	_____	 _____	_____	 _____
0600	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	250.000 CD	_____	 _____	_____	 _____
0610	652.38 FLAGGER	9,500.000 HR	_____	 _____	_____	 _____
0620	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	2.000 EA	_____	 _____	_____	 _____
0630	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM		 LUMP SUM	_____	 _____
0640	659.10 MOBILIZATION	LUMP SUM		 LUMP SUM	_____	 _____
0650	673.10 WET CAST SMALL LANDSCAPE BLOCK WALL	180.000 SF	_____	 _____	_____	 _____
Section: 1			Total:		_____	 _____

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Proposal ID: 020267.00

Project(s): 020267.00

SECTION: 2 Option 1 - FULL DEPTH RECYCLED
PAVEMENT

Alt Set ID: A1

Alt Mbr ID: 1

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0660	202.202 REMOVING PAVEMENT SURFACE	34,400.000 SY	_____	 _____	_____	 _____
0670	307.332 FULL DEPTH RECYCLED PAVEMENT(W EMULSIFIED ASPHALT STABILIZER) 5 IN. DEPTH	38,600.000 SY	_____	 _____	_____	 _____

Section: 2

Total:

SECTION: 3 Option 2 - EXCAVATION AND HMA BASE

Alt Set ID: A1

Alt Mbr ID: 2

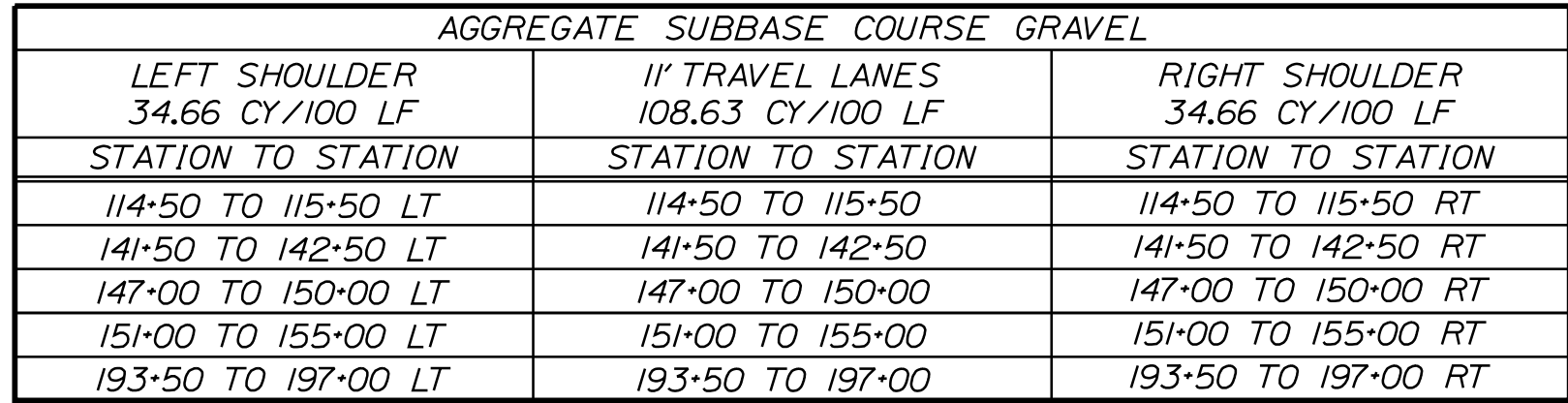
Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0680	203.20 COMMON EXCAVATION	6,175.000 CY	_____	 _____	_____	 _____
0690	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	5,200.000 CY	_____	 _____	_____	 _____
0700	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	4,300.000 T	_____	 _____	_____	 _____
0710	409.15 BITUMINOUS TACK COAT - APPLIED	1,200.000 G	_____	 _____	_____	 _____

Section: 3

Total:

Total Bid:



The diagram illustrates a cross-section of a proposed road construction. Key features include:

- Dimensions:** 6.23' (left shoulder), 3.00' (left shoulder), 11.00' (travel lane), 11.00' (travel lane), 3.00' (right shoulder), and variable widths (VARIES) for the outer shoulders.
- Layers:** 2" LOAM (TYP), 3" HOT MIX ASPHALT, and 5" RECLAIMED PAVEMENT.
- Grades:** -3.1% (left shoulder), 2.0% (left travel lane), -X% (left travel lane), -X% (right travel lane), and -3.1% (right shoulder).
- Other Labels:** T.L. (Top of Layer), SHLDR (Shoulder), TRAVEL LANE, PROFILE GRADE, and AGGREGATE SUBBASE COURSE - GRAVEL.

AGGREGATE SUBBASE COURSE GRAVEL		
HIGH SIDE SHOULDER (**) CY/100 LF	1/2 TRAVEL LANES 108.63 CY/100 LF	LOW SIDE SHOULDER (**) CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
93+50 TO 100+50 LT (42.59)	93+50 TO 101+50	93+50 TO 100+50 RT (37.93)
111+00 TO 112+50 LT (42.04)	111+00 TO 114+50	111+00 TO 112+50 RT (38.44)
121+50 TO 122+50 LT (38.44)	121+50 TO 122+50	121+50 TO 122+40 RT (43.41)
156+50 TO 160+50 LT (14.26)	156+50 TO 160+50	156+50 TO 160+50 RT (45.22)
161+50 TO 162+50 LT (38.44)	161+50 TO 162+50	161+50 TO 162+50 RT (30.30)
163+50 TO 167+00 LT (18.85)	163+50 TO 167+00	163+50 TO 167+00 RT (44.93)
169+00 TO 173+00 LT (14.81)	169+00 TO 173+00	169+00 TO 173+00 RT (35.04)
183+50 TO 185+50 LT (35.19)	183+50 TO 185+50	183+50 TO 185+50 RT (45.59)
186+00 TO 188+00 LT (47.00)	186+00 TO 188+00	186+00 TO 188+00 RT (51.67)
188+50 TO 190+00 LT (19.04)	188+50 TO 190+00	188+50 TO 190+00 RT (44.26)

[illegible]

EDGE OF TRAVEL LANE

5.00'

3.00'

3.00'

SHLDR

1.00'

2" LOAM (TYP.)

2:1

3:1

*6%

6%

CURB TYPE 3 (MOLD 2)

2.00'

3" HOT MIX ASPHALT

5" RECLAIMED PAVEMENT

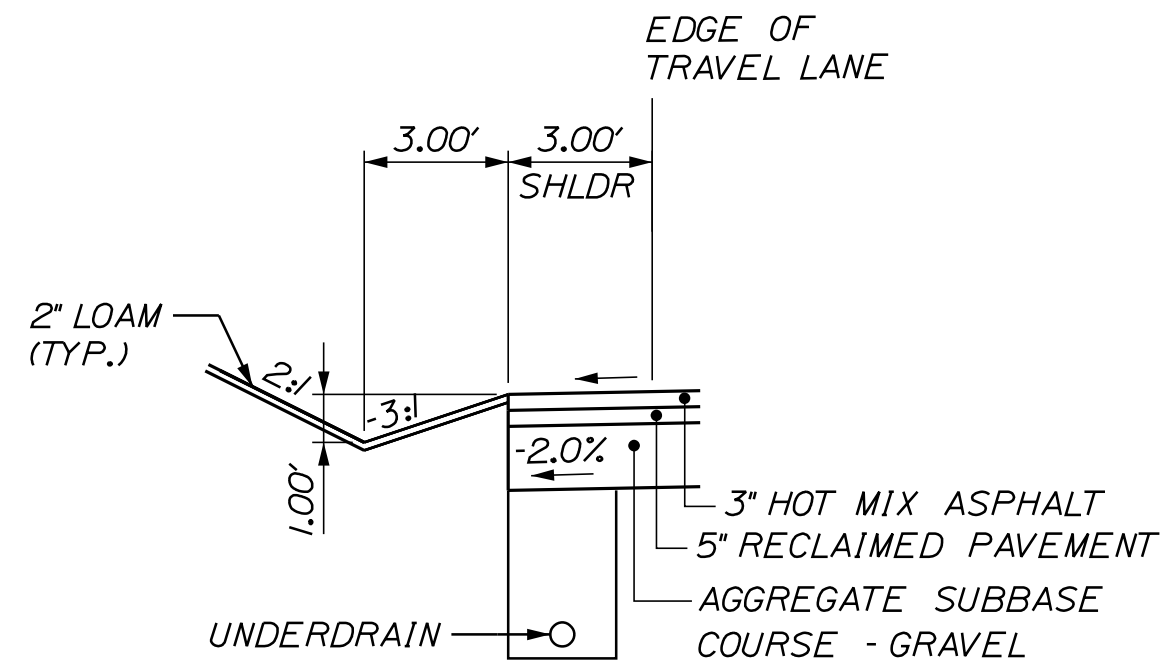
AGGREGATE SUBBASE COURSE - GRAVEL

UNDERDRAIN

AGGREGATE SUBBASE COURSE GRAVEL
SHOULDER
VARIES CY/100 LF
STATION TO STATION

AGGREGATE SUBBASE COURSE GRAVEL
SHOULDER
VARIES CY/100 LF
STATION TO STATION

GUARDRAIL SECTION



AGGREGATE SUBBASE COURSE GRAVEL
SHOULDER
VARIES CY/100 LF
STATION TO STATION

<div> <div>3</div> <div>OF 173</div> </div>	<div> <div>SHEET NUMBER</div> <div>ACTON ROUTE 109</div> <div>TYPICAL SECTIONS - 2</div> </div>	<div> <div>PROJ. MANAGER</div> <div>R. BETZ</div> <div>T. KELLEY</div> <div>3/2016</div> </div>				<div> <div>DATE</div> <div>3/2016</div> <div>SIGNATURE</div> <div>P.E. NUMBER</div> <div>DATE</div> </div>	<div> <div>STATE OF MAINE</div> <div>DEPARTMENT OF TRANSPORTATION</div> <div>STP-2026(700)</div> <div>WIN 20267.00</div> <div>HIGHWAY PLANS</div> </div>
		<div> <div>CHECKED-REVISED</div> <div>H. COWAN</div> <div>T. KELLEY</div> <div>3/2016</div> </div>					
		<div> <div>DESIGN2-DETAILED2</div> <div></div> <div></div> <div></div> </div>					
		<div> <div>DESIGN3-DETAILED3</div> <div></div> <div></div> <div></div> </div>					
		<div> <div>REVISIONS 1</div> <div></div> <div></div> <div></div> </div>					
<div> <div>REVISIONS 2</div> <div></div> <div></div> <div></div> </div>							
<div> <div>REVISIONS 3</div> <div></div> <div></div> <div></div> </div>							
<div> <div>REVISIONS 4</div> <div></div> <div></div> <div></div> </div>							
<div> <div>FIELD CHANGES</div> <div></div> <div></div> <div></div> </div>							

ESTIMATED QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
201.11	CLEARING	AC	6
201.23	REMOVING SINGLE TREE TOP ONLY	EA	26
201.24	REMOVING STUMP	EA	28
203.20	COMMON EXCAVATION	CY	41000
203.21	ROCK EXCAVATION	CY	3975
203.25	GRANULAR BORROW	CY	100
203.33	SPECIAL FILL - STREAMBED MATERIAL	CY	100
206.061	STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES BELOW GRADE	CY	50
206.07	STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES BELOW GRADE	CY	100
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY	18100
403.209	HOT MIX ASPHALT, 9.5 mm NOMINAL MAX. SIZE (DRIVES AND INCIDENTALS)	Ton	210
403.21041	HOT MIX ASPHALT, 9.5 mm POLYMER MOD THIN LIFT SURFACE	Ton	2150
403.2111	9.5 mm POLYMER MODIFIED HMA (SHIM)	Ton	100
403.2131	HOT MIX ASPHALT, 12.5 mm POLYMER MODIFIED HMA BASE	Ton	4300
409.15	BITUMINOUS TACK COAT, APPLIED	G	1250
508.13	SHEET WATERPROOFING MEMBRANE (170 SY)	LS	1
511.07	COFFERDAM: UPSTREAM	LS	1
511.07	COFFERDAM: DOWNSTREAM	LS	1
524.301	TEMPORARY STRUCTURAL SUPPORT, ROADWAY	LS	1
526.301	PORTABLE CONCRETE BARRIER TYPE I (50 LF)	LS	1
527.34	WORK ZONE CRASH CUSHIONS	Unit	2
534.71	PRECAST CONCRETE BOX CULVERT (160 CY)	LS	1
603.16	15" CULVERT PIPE OPTION I	LF	820
603.17	18" CULVERT PIPE OPTION I	LF	64
603.175	18" RCP CLASS III	LF	760
603.43	36" RCP CLASS IV	LF	130
603.55	CONCRETE PIPE TIES	GP	44
604.092	CATCH BASIN TYPE B1-C	EA	2
605.09	6" UNDERDRAIN TYPE B	LF	1950
605.11	12" UNDERDRAIN TYPE C	LF	430
606.1301	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)	LF	375
606.1303	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (STEEL POST, 8" OFFSET BLOCKS, 15' RADIUS AND LESS)	LF	50
606.1305	31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL (31" HEIGHT)	EA	2
606.1722	BRIDGE TRANSITION - TYPE II	EA	1
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	EA	2
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	EA	12
606.356	UNDERDRAIN DELINEATOR POST	EA	25
606.47	SINGLE WOOD POST	EA	15
609.31	CURB TYPE 3	LF	1440
610.08	PLAIN RIPRAP	CY	810
610.18	STONE DITCH PROTECTION	CY	160
610.210	STREAM CHANNEL ROCK	CY	66
610.212	STREAMBED ROCK FEATURES	CY	2
613.319	EROSION CONTROL BLANKET	SY	7300
615.07	LOAM	CY	3280
618.13	SEEDING METHOD NUMBER 1	Unit	17
618.14	SEEDING METHOD NUMBER 2	Unit	520
619.12	MULCH	Unit	540
620.58	EROSION CONTROL GEOTEXTILE	SY	2550
627.733	4" WHITE OR YELLOW PAVEMENT MARKING LINE	LF	34860
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW'	LF	69720
629.05	HAND LABOR, STRAIGHT TIME	HR	100
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR	30
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	HR	30
631.20	STUMP CHIPPER RENTAL (INCLUDING OPERATOR)	HR	20
631.221	SMALL FRONT END LOADER (INCLUDING OPERATOR)	HR	20
639.18	FIELD OFFICE, TYPE A	EA	1
642.15	PRECAST CONCRETE STEPS	EA	1
643.72	TEMPORARY TRAFFIC SIGNAL	LS	1
652.31	TYPE I BARRICADE	EA	25
652.33	DRUM	EA	25
652.34	CONE	EA	150
652.35	CONSTRUCTION SIGNS	SF	650
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	CD	250
652.38	FLAGGERS	HR	9500
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	EA	2
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LS	1
659.10	MOBILIZATION	LS	1
673.10	WET CAST SMALL LANDSCAPE BLOCK WALL	SF	180

FULL DEPTH RECYCLED PAVEMENT OPTION 1 ADDITIONAL QUANTITIES			
202.20	REMOVING BITUMINOUS CONCRETE PAVEMENT	SY	34400
307.332	FULL DEPTH RECYCLED PAVEMENT (WITH EMULSIPHIED ASPHALT STABILIZER), 5 IN. DEPTH	SY	38600
FULL DEPTH PAVEMENT OPTION 2 ADDITIONAL QUANTITIES			
203.20	COMMON EXCAVATION	CY	6175
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY	5200
403.2131	HOT MIX ASPHALT, 12.5 mm POLYMER MODIFIED HMA BASE	Ton	4300
409.15	BITUMINOUS TACK COAT APPLIED	G	1200

COMMON EXCAVATION FOR ESTIMATE

Common Excavation (from Cross Sections)	40372	
Earth From Drives	1043	
Earth from Intersections	0	
Grubbing in Fill	1076	
Total Common Excavation		42491

FILL FOR BORROW CALCULATIONS

Common Fill (from cross sections)	3770	
Fill For Drives	54	
Grubbing in Fill	1076	
Pavement Salvage in Fill	0	
Total Fill		4900

ROCK EXCAVATION FOR ESTIMATE

Rock Excavation (from cross sections)	1141	
Total Rock Excavation		1141

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) Total Common Excavation		42491
Deductions:		
Grubbing in Cut	7600	
Grubbing in Fill	1076	
Pavement Salvage in Fill	0	
Pavement Salvage in Cut	400	
(2) Total Deductions		9076
Total Available Common Excavation (1) minus (2)		33415
Total Available Struct. Earth Excavation (Underdrain Only)		50
Total Available Non-Rock Excavation		33465

COMPUTATION OF WASTE STORAGE AND WASTE MATERIAL

Total Available Waste Storage Area (from Cross Sections)		0
Grubbing in Cut	7600	
Grubbing in Fill	1076	
Total Waste Material to be Utilized = Smaller of Total Available Waste Storage Area or Total Waste Material		0
Total Waste Material to be Wasted = Total Waste Material Minus Total Waste Material To Be Utilized		8676

COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

Granular Borrow to Replace Muck		N/A
Granular Borrow in Low Wet Areas		N/A
Granular Borrow to Upgrade Excavation		N/A
Granular Borrow to Maintain Traffic		100
Granular Borrow		100

COMPUTATION OF COMMON BORROW FOR ESTIMATE

(3) Total Fill		4900
Total Available Non-Rock Excav.	33465	x 0.90 = 30119
Total Available Rock Excav.	1141	x 1.30 = 1483
Total Available Str. Earth Excav.	50	x 0.90 = 45
Total Available Str. Rock Excav.	0	x 1.30 = 0
Total Waste Material to be Utilizec	0	x 0.90 = 0
(4) Total Available Excavation		31647
Total Surplus Material = Available Excavation Minus Total Fill Plus Waste Material To Be Wasted		35322

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2026(700)

WIN
20267.00
HIGHWAY PLANS

ACTON
ROUTE 109

ESTIMATED QUANTITIES

PROJ. MANAGER
DESIGN-DETAILED
CHECKED-REVIEWED
DESIGN-DETAILED
DESIGN-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

DATE
3/2016
3/2016

BY
T. KELLEY
H. COWAN

R. BETZ
T. KELLEY
H. COWAN

SIGNATURE

P.E. NUMBER

DATE

SHEET NUMBER
6
OF 173

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