

Vermont Agency of Transportation

ELMORE BF 0241(55)

Estimate FINAL - Engineer's Estimate - B94

<p>Phase: FINAL</p> <p>Estimate Date: 09 June, 2022</p> <p>Specification: Standard Specifications for Construction</p> <p>Region: NORTHWEST</p> <p>Town: ELMORE</p> <p>Advertising Season:</p>	<p>Designed By:</p> <p>Reviewed By: Jon Olin</p> <p>Approved By:</p> <p>Work Type: BRIDGE CONSTRUCTION</p> <p>Highway Type: MAJOR COLLECTOR</p> <p>Urban/Rural: RURAL</p>
<p>Description: EXISTING CULVERT REPLACEMENT WITH A FOUR-SIDED PRECAST CONCRETE BOX CULVERT WITH ASSOCIATED ROADWAY IMPROVEMENTS.</p>	

Category

1011 - ROADWAY

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
201.10	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	(BRIDGE 94)	1.00	LS	\$3,500.000	\$3,500.00
203.15	COMMON EXCAVATION		1,380.00	CY	\$11.995	\$16,553.10
203.25	CHANNEL EXCAVATION OF EARTH		35.00	CY	\$15.000	\$525.00
203.28	EXCAVATION OF SURFACES AND PAVEMENTS		40.00	CY	\$15.000	\$600.00
203.30	EARTH BORROW		150.00	CY	\$5.177	\$776.55
204.20	TRENCH EXCAVATION OF EARTH		410.00	CY	\$21.702	\$8,897.82
204.22	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)		1.00	CY	\$75.000	\$75.00
210.10	COARSE-MILLING, BITUMINOUS PAVEMENT		350.00	SY	\$6.345	\$2,220.75
301.35	SUBBASE OF DENSE GRADED CRUSHED STONE		1,100.00	CY	\$35.630	\$39,193.00
401.10	AGGREGATE SURFACE COURSE		60.00	CY	\$52.805	\$3,168.30
404.65	EMULSIFIED ASPHALT		20.00	CWT	\$46.382	\$927.64
406.38	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES		45.00	SY	\$29.792	\$1,340.64
406.50	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)		1.00	LU	\$1.000	\$1.00
601.0815	18" RCP CLASS III		180.00	LF	\$143.975	\$25,915.50
601.0915	18" CPEP		50.00	LF	\$56.240	\$2,812.00
601.0920	24" CPEP		65.00	LF	\$57.693	\$3,750.05
601.6815	18" RCPES CLASS III		2.00	EACH	\$1,000.000	\$2,000.00
601.7015	18" CPEPES		4.00	EACH	\$335.000	\$1,340.00
601.7020	24" CPEPES		2.00	EACH	\$375.000	\$750.00
604.20	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE		2.00	EACH	\$6,059.176	\$12,118.35
608.25	ALL PURPOSE EXCAVATOR RENTAL, TYPE I		10.00	HR	\$122.759	\$1,227.59
613.10	STONE FILL, TYPE I		2.00	CY	\$61.017	\$122.03

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617.10	REMOVE AND RESET MAILBOX, SINGLE SUPPORT		2.00	EACH	\$189.074	\$378.15
619.17	YIELDING MARKER POSTS		10.00	EACH	\$50.258	\$502.58
621.20	STEEL BEAM GUARDRAIL, GALVANIZED	(MIDWEST GUARDRAIL SYSTEM)	475.00	LF	\$20.413	\$9,696.18
621.51	MANUFACTURED TERMINAL SECTION, TANGENT		5.00	EACH	\$2,706.789	\$13,533.95
621.80	REMOVAL AND DISPOSAL OF GUARDRAIL		675.00	LF	\$1.194	\$805.95
630.10	UNIFORMED TRAFFIC OFFICERS		115.00	HR	\$65.066	\$7,482.59
630.15	FLAGGERS		560.00	HR	\$34.643	\$19,400.08
635.11	MOBILIZATION/DEMOBILIZATION	(BRIDGE 94)	1.00	LS	\$90,000.000	\$90,000.00
641.11	TRAFFIC CONTROL, ALL-INCLUSIVE	(BRIDGE 94)	1.00	LS	\$16,000.000	\$16,000.00
641.15	PORTABLE CHANGEABLE MESSAGE SIGN		2.00	EACH	\$3,827.175	\$7,654.35
646.201	4 INCH WHITE LINE, WATERBORNE PAINT		1,020.00	LF	\$0.640	\$652.80
646.2111	4 INCH YELLOW LINE, WATERBORNE PAINT		1,100.00	LF	\$0.682	\$750.20
675.50	REMOVING SIGNS		4.00	EACH	\$15.771	\$63.08
675.60	RESETTING SIGNS		4.00	EACH	\$27.462	\$109.85
676.10	DELINEATOR WITH STEEL POST		4.00	EACH	\$76.676	\$306.70
676.12	REMOVAL OF EXISTING DELINEATOR AND POST		4.00	EACH	\$2.060	\$8.24
678.40	TEMPORARY TRAFFIC SIGNAL SYSTEM		1.00	EACH	\$35,000.000	\$35,000.00
900.680	SPECIAL PROVISION	(BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	730.00	TON	\$106.297	\$77,596.81
					Category total:	\$407,755.83

Category
1031 - TRAINING

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
634.10	EMPLOYEE TRAINEESHIP		208.00	HR	\$17.411	\$3,621.49
					Category total:	\$3,621.49

Category
1051 - EROSION CONTROL

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
651.15	SEED		25.00	LB	\$10.374	\$259.35
651.18	FERTILIZER		150.00	LB	\$3.916	\$587.40
651.20	AGRICULTURAL LIMESTONE		1.00	TON	\$700.317	\$700.32
651.35	TOPSOIL		150.00	CY	\$40.130	\$6,019.50
651.40	GRUBBING MATERIAL	(12 INCH)	60.00	SY	\$3.500	\$210.00
653.01	EPSC PLAN	(BRIDGE 94)	1.00	LS	\$3,600.000	\$3,600.00

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653.02	MONITORING EPSC PLAN		102.00	HR	\$27.720	\$2,827.44
653.03	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	(BRIDGE 94)	1.00	LU	\$4,000.000	\$4,000.00
653.10	HAY MULCH		1.00	TON	\$705.540	\$705.54
653.20	ROLLED EROSION CONTROL PRODUCT, TYPE I		1,300.00	SY	\$1.834	\$2,384.20
653.25	CHECK DAM, TYPE I		20.00	CY	\$54.461	\$1,089.22
653.35	STABILIZED CONSTRUCTION ENTRANCE		35.00	CY	\$47.220	\$1,652.70
653.40	INLET PROTECTION DEVICE, TYPE I		1.00	EACH	\$239.564	\$239.56
653.45	FILTER BAG		1.00	EACH	\$321.201	\$321.20
653.475	SILT FENCE, TYPE I		330.00	LF	\$3.809	\$1,256.97
653.476	SILT FENCE, TYPE II		300.00	LF	\$6.022	\$1,806.60
653.50	BARRIER FENCE		775.00	LF	\$1.971	\$1,527.53
653.55	PROJECT DEMARCATION FENCE		225.00	LF	\$1.117	\$251.33
653.60	EROSION LOG		275.00	LF	\$5.024	\$1,381.60
					Category total:	\$30,820.45

Category

1211 - BRIDGE NO. 1

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
203.16	SOLID ROCK EXCAVATION		10.00	CY	\$74.295	\$742.95
203.27	UNCLASSIFIED CHANNEL EXCAVATION		140.00	CY	\$12.860	\$1,800.40
204.25	STRUCTURE EXCAVATION		540.00	CY	\$21.765	\$11,753.10
204.30	GRANULAR BACKFILL FOR STRUCTURES		250.00	CY	\$35.103	\$8,775.75
514.10	WATER REPELLENT, SILANE		5.00	GAL	\$64.998	\$324.99
528.10	ONE-WAY TEMPORARY BRIDGE	(BRIDGE 94, 900 SF - EST.)	1.00	LS	\$210,000.000	\$210,000.00
529.15	REMOVAL OF STRUCTURE	(6'-0" X 74'-0" ACCGMPP)	1.00	EACH	\$10,000.000	\$10,000.00
540.10	PRECAST CONCRETE STRUCTURE	(11'-0" X 10'-0" X 57'-0" BOX)	1.00	LS	\$140,000.000	\$140,000.00
613.06	STONE FILL, STREAM BED MATERIAL	(E-STONE, TYPE IV)	260.00	CY	\$50.000	\$13,000.00
613.10	STONE FILL, TYPE I		10.00	CY	\$61.017	\$610.17
649.31	GEOTEXTILE UNDER STONE FILL		200.00	SY	\$1.666	\$333.20
900.645	SPECIAL PROVISION	(TEMPORARY RELOCATION OF STREAM, BRIDGE 94)	1.00	LS	\$50,000.000	\$50,000.00
900.670	SPECIAL PROVISION	(PRECAST CONCRETE WINGWALL)	962.00	SF	\$75.000	\$72,150.00
					Category total:	\$519,490.56

Category

1999 - FULL C.E. ITEMS

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
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631.10	FIELD OFFICE, ENGINEERS	1.00	LS	\$14,400.000	\$14,400.00
631.16	TESTING EQUIPMENT, CONCRETE	1.00	LS	\$1,000.000	\$1,000.00
631.17	TESTING EQUIPMENT, BITUMINOUS	1.00	LS	\$700.000	\$700.00
631.26	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	1,200.00	DL	\$1.000	\$1,200.00
				Category total:	\$17,300.00

Category
3041 - LANDSCAPING

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
656.30	DECIDUOUS TREES	(ALNUS RUGOSA)(3 GALLON)(CONT.)	4.00	EACH	\$770.000	\$3,080.00
656.35	DECIDUOUS SHRUBS	(SALIX DISCOLOR)(3 GALLON)(CONT.)	8.00	EACH	\$80.000	\$640.00
656.65	LANDSCAPE WATERING		4.00	MGAL	\$105.000	\$420.00
656.80	LANDSCAPE BACKFILL, TRUCK MEASUREMENT		31.00	CY	\$80.000	\$2,480.00
656.85	TREE PROTECTION		1.00	LS	\$5,520.000	\$5,520.00
900.640	SPECIAL PROVISION	(LIVE FASCINE)	195.00	LF	\$40.000	\$7,800.00
900.670	SPECIAL PROVISION	(WET AREA SEED MIX)	9,259.00	SF	\$0.100	\$925.90
					Category total:	\$20,865.90

Grand Total: \$999,854.23