

Vermont Agency of Transportation

WORCESTER BF 0241(56)

Estimate FINAL - Engineer's Estimate - B87

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

Category

1011 - ROADWAY

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
201.10	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	(BRIDGE 87)	1.00	LS	\$9,300.000	\$9,300.00
203.15	COMMON EXCAVATION		1,510.00	CY	\$12.814	\$19,349.14
203.16	SOLID ROCK EXCAVATION		10.00	CY	\$84.488	\$844.88
203.30	EARTH BORROW		850.00	CY	\$4.723	\$4,014.55
204.20	TRENCH EXCAVATION OF EARTH		50.00	CY	\$22.067	\$1,103.35
204.21	TRENCH EXCAVATION OF ROCK		3.00	CY	\$138.541	\$415.62
204.22	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)		1.00	CY	\$75.000	\$75.00
210.10	COARSE-MILLING, BITUMINOUS PAVEMENT		920.00	SY	\$6.490	\$5,970.80
301.35	SUBBASE OF DENSE GRADED CRUSHED STONE		1,250.00	CY	\$37.112	\$46,390.00
401.10	AGGREGATE SURFACE COURSE		100.00	CY	\$50.384	\$5,038.40
404.65	EMULSIFIED ASPHALT		20.00	CWT	\$46.662	\$933.24
406.38	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES		130.00	SY	\$26.734	\$3,475.42
406.50	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)		1.00	LU	\$1.000	\$1.00
507.11	REINFORCING STEEL, LEVEL I	(UNCOATED)	760.00	LB	\$1.091	\$829.16
541.25	CONCRETE, CLASS B		5.00	CY	\$909.710	\$4,548.55
601.0915	18" CPEP		80.00	LF	\$54.284	\$4,342.72
608.25	ALL PURPOSE EXCAVATOR RENTAL, TYPE I		10.00	HR	\$121.140	\$1,211.40
613.10	STONE FILL, TYPE I		80.00	CY	\$63.128	\$5,050.24
617.10	REMOVE AND RESET MAILBOX, SINGLE SUPPORT		2.00	EACH	\$189.074	\$378.15
619.17	YIELDING MARKER POSTS		2.00	EACH	\$49.668	\$99.34
621.20	STEEL BEAM GUARDRAIL, GALVANIZED	(MIDWEST GUARDRAIL SYSTEM)	850.00	LF	\$19.572	\$16,636.20

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621.51	MANUFACTURED TERMINAL SECTION, TANGENT		5.00	EACH	\$2,610.543	\$13,052.72
621.80	REMOVAL AND DISPOSAL OF GUARDRAIL		1,150.00	LF	\$1.187	\$1,365.05
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 87)	1.00	LS	\$130,000.000	\$130,000.00
641.11	TRAFFIC CONTROL, ALL-INCLUSIVE	(BRIDGE 87)	1.00	LS	\$20,000.000	\$20,000.00
641.15	PORTABLE CHANGEABLE MESSAGE SIGN		2.00	EACH	\$3,827.175	\$7,654.35
646.201	4 INCH WHITE LINE, WATERBORNE PAINT		1,500.00	LF	\$0.637	\$955.50
646.2111	4 INCH YELLOW LINE, WATERBORNE PAINT		1,500.00	LF	\$0.679	\$1,018.50
675.50	REMOVING SIGNS		3.00	EACH	\$15.771	\$47.31
675.60	RESETTING SIGNS		3.00	EACH	\$27.462	\$82.39
676.10	DELINEATOR WITH STEEL POST		5.00	EACH	\$81.106	\$405.53
676.12	REMOVAL OF EXISTING DELINEATOR AND POST		5.00	EACH	\$2.653	\$13.27
678.40	TEMPORARY TRAFFIC SIGNAL SYSTEM		1.00	EACH	\$35,000.000	\$35,000.00
900.680	SPECIAL PROVISION	(BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	660.00	TON	\$105.865	\$69,870.90
					Category total:	\$436,355.34

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		85.00	LB	\$10.177	\$865.05
651.18	FERTILIZER		515.00	LB	\$3.841	\$1,978.12
651.20	AGRICULTURAL LIMESTONE		3.00	TON	\$695.308	\$2,085.92
651.35	TOPSOIL		230.00	CY	\$39.612	\$9,110.76
651.40	GRUBBING MATERIAL	(12 INCH)	130.00	SY	\$3.500	\$455.00
653.01	EPSC PLAN	(BRIDGE 87)	1.00	LS	\$3,600.000	\$3,600.00
653.02	MONITORING EPSC PLAN		102.00	HR	\$27.720	\$2,827.44
653.03	MAINTENANCE OF EPSC PLAN (N.A.B.I.)		1.00	LU	\$4,000.000	\$4,000.00
653.10	HAY MULCH		4.00	TON	\$696.586	\$2,786.34
653.20	ROLLED EROSION CONTROL PRODUCT, TYPE I		3,900.00	SY	\$1.839	\$7,172.10

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653.35	STABILIZED CONSTRUCTION ENTRANCE	35.00	CY	\$46.294	\$1,620.29
653.45	FILTER BAG	1.00	EACH	\$321.201	\$321.20
653.475	SILT FENCE, TYPE I	660.00	LF	\$3.811	\$2,515.26
653.476	SILT FENCE, TYPE II	420.00	LF	\$5.465	\$2,295.30
653.50	BARRIER FENCE	500.00	LF	\$2.050	\$1,025.00
653.55	PROJECT DEMARCATION FENCE	975.00	LF	\$1.114	\$1,086.15
				Category total:	\$43,743.93

Category
1211 - BRIDGE NO. 1

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
203.16	SOLID ROCK EXCAVATION		10.00	CY	\$84.488	\$844.88
203.27	UNCLASSIFIED CHANNEL EXCAVATION		250.00	CY	\$12.840	\$3,210.00
204.25	STRUCTURE EXCAVATION		950.00	CY	\$21.869	\$20,775.55
204.30	GRANULAR BACKFILL FOR STRUCTURES		340.00	CY	\$35.202	\$11,968.68
514.10	WATER REPELLENT, SILANE		5.00	GAL	\$64.998	\$324.99
528.10	ONE-WAY TEMPORARY BRIDGE	(BRIDGE 87, 900 SF - EST.)	1.00	LS	\$350,000.000	\$350,000.00
529.15	REMOVAL OF STRUCTURE	(13'-11" X 8'-7" X 97'-0" CGMPPA)	1.00	EACH	\$10,000.000	\$10,000.00
540.10	PRECAST CONCRETE STRUCTURE	(19'-0" X 10'-0" X 87'-0" BOX)	1.00	LS	\$330,000.000	\$330,000.00
613.06	STONE FILL, STREAM BED MATERIAL	(E-STONE TYPE III)	390.00	CY	\$50.000	\$19,500.00
613.10	STONE FILL, TYPE I		20.00	CY	\$63.128	\$1,262.56
613.12	STONE FILL, TYPE III		130.00	CY	\$50.518	\$6,567.34
649.31	GEOTEXTILE UNDER STONE FILL		460.00	SY	\$1.662	\$764.52
900.640	SPECIAL PROVISION	(WILDLIFE GUIDE FENCE)	310.00	LF	\$15.000	\$4,650.00
900.645	SPECIAL PROVISION	(TEMPORARY RELOCATION OF STREAM, BRIDGE 87)	1.00	LS	\$77,000.000	\$77,000.00
900.670	SPECIAL PROVISION	(PRECAST CONCRETE WINGWALL)	1,390.00	SF	\$75.000	\$104,250.00
				Category total:		\$941,118.52

Category
1999 - FULL C.E. ITEMS

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
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

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Category total: \$17,300.00

Category
3041 - LANDSCAPING

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
656.20	EVERGREEN TREES	(ABIES BALSAMEA)(3'-4' HT.)(CONT.)	9.00	EACH	\$200.000	\$1,800.00
656.20	EVERGREEN TREES	(PICEA GLAUCA)(3'-4' HT.)(CONT.)	15.00	EACH	\$200.000	\$3,000.00
656.20	EVERGREEN TREES	(PICEA GLAUCA)(6'-7' HT.)(B&B)	7.00	EACH	\$200.000	\$1,400.00
656.20	EVERGREEN TREES	(PINUS STROBUS)(3'-4' HT.)(CONT.)	13.00	EACH	\$200.000	\$2,600.00
656.35	DECIDUOUS SHRUBS	(ILEX VERTICILLATA ' RED SPRITE')(1 GALLON)(CONT.)	15.00	EACH	\$80.000	\$1,200.00
656.35	DECIDUOUS SHRUBS	(ILEX VERTICILLATA 'JIM DANDY')(1 GALLON)(CONT.)	3.00	EACH	\$80.000	\$240.00
656.35	DECIDUOUS SHRUBS	(SALIX DISCOLOR)(1 GALLON)(CONT.)	13.00	EACH	\$80.000	\$1,040.00
656.35	DECIDUOUS SHRUBS	(SALIX SERICEA)(1 GALLON)(CONT.)	14.00	EACH	\$80.000	\$1,120.00
656.35	DECIDUOUS SHRUBS	(SPIRAEA LATIFOLIA)(1 GALLON)(CONT.)	15.00	EACH	\$80.000	\$1,200.00
656.35	DECIDUOUS SHRUBS	(SPIRAEA TOMENTOSA)(1 GALLON)(CONT.)	8.00	EACH	\$80.000	\$640.00
656.65	LANDSCAPE WATERING		41.00	MGAL	\$52.000	\$2,132.00
656.80	LANDSCAPE BACKFILL, TRUCK MEASUREMENT		102.00	CY	\$80.000	\$8,160.00
656.85	TREE PROTECTION		1.00	LS	\$5,520.000	\$5,520.00
900.670	SPECIAL PROVISION	(WET AREA SEED MIX)	22,039.00	SF	\$0.100	\$2,203.90
					Category total:	\$32,255.90

Grand Total: \$1,474,395.17