

**Vermont Agency of Transportation**

READSBORO BF 0102(16) - DRAFT RE-AD

Estimate FINAL - Draft Re-Ad

Phase: FINAL	Designed By: Nina Truslow
Estimate Date: 08 March, 2024	Reviewed By: Scott Burbank
Specification: Standard Specifications for Construction	Approved By: Jonathan Griffin
Region: SOUTHWEST	Work Type: BRIDGE CONSTRUCTION
Town: READSBORO	Highway Type: MAJOR COLLECTOR
Advertising Season: NON CONSTRUCTION SEASON	Urban/Rural: RURAL
Description: This project is a draft readvertisement for Readsboro intended only to capture the new 2024 estimate.	

Category

**1011 - ROADWAY**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
201.1000	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS		1.00	LS	\$150,000.000	\$150,000.00
203.1500	COMMON EXCAVATION		10,885.00	CY	\$35.000	\$380,975.00
203.1600	SOLID ROCK EXCAVATION		250.00	CY	\$300.000	\$75,000.00
204.2000	TRENCH EXCAVATION OF EARTH		860.00	CY	\$70.000	\$60,200.00
204.2100	TRENCH EXCAVATION OF ROCK		10.00	CY	\$425.000	\$4,250.00
204.2200	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)		1.00	CY	\$75.000	\$75.00
210.1000	COARSE-MILLING, BITUMINOUS PAVEMENT		2,410.00	SY	\$11.590	\$27,931.90
301.3500	SUBBASE OF DENSE GRADED CRUSHED STONE		3,010.00	CY	\$80.000	\$240,800.00
402.1300	AGGREGATE SHOULDERS, RAP		200.00	TON	\$50.329	\$10,065.80
404.1100	TACK COAT, EMULSIFIED ASPHALT		50.00	CWT	\$57.367	\$2,868.35
406.0230	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER III		570.00	TON	\$260.000	\$148,200.00
406.1430	BITUMINOUS CONCRETE PAVEMENT, TYPE IVSB, QA TIER III		930.00	TON	\$260.000	\$241,800.00
406.3400	BITUMINOUS CONCRETE PAVEMENT, NON-PAVER PLACED, TYPE IVS		35.00	SY	\$50.000	\$1,750.00
406.9100	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)		10,000.00	DL	\$1.000	\$10,000.00
406.9200	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)		10,000.00	DL	\$1.000	\$10,000.00
601.2615	18 INCH CPEP(SL)		420.00	LF	\$110.000	\$46,200.00
601.2620	24 INCH CPEP(SL)		140.00	LF	\$90.000	\$12,600.00
601.7015	18 INCH CPEPES		3.00	EACH	\$1,250.000	\$3,750.00
601.7020	24 INCH CPEPES		1.00	EACH	\$1,650.000	\$1,650.00
604.2000	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	(4 FOOT DIA)	3.00	EACH	\$6,400.000	\$19,200.00
604.2100	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER	(4 FOOT DIA)	4.00	EACH	\$9,450.000	\$37,800.00

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604.4000	CHANGING ELEVATION OF DIS, CATCH BASINS, OR MANHOLES	6.00	EACH	\$1,253.100	\$7,518.60
604.4101	REHABILITATING DIS, CATCH BASINS, OR MANHOLES, CLASS I	3.00	EACH	\$1,685.229	\$5,055.69
604.4504	CAST IRON GRATE WITH FRAME, TYPE D	3.00	EACH	\$1,500.000	\$4,500.00
609.1000	DUST CONTROL WITH WATER	510.00	MGAL	\$36.526	\$18,628.26
616.2100	VERTICAL GRANITE CURB	490.00	LF	\$96.922	\$47,491.78
618.1005	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	250.00	SY	\$190.000	\$47,500.00
618.3000	DETECTABLE WARNING SURFACE	60.00	SF	\$61.458	\$3,687.48
619.1700	YIELDING MARKER POSTS	5.00	EACH	\$88.848	\$444.24
620.8200	SQUARE STEEL FENCE	180.00	LF	\$250.000	\$45,000.00
621.0100	REMOVAL OF GUARDRAIL	980.00	LF	\$4.000	\$3,920.00
621.1060	STEEL BEAM GUARDRAIL	182.00	LF	\$45.000	\$8,190.00
621.2300	BOX BEAM GUARDRAIL	450.00	LF	\$95.000	\$42,750.00
621.2600	STEEL BACKED TIMBER GUARDRAIL	75.00	LF	\$600.000	\$45,000.00
621.3030	MTS, MGS, TANGENT, TL-3	1.00	EACH	\$3,312.841	\$3,312.84
621.6021	BOX BEAM GUARDRAIL END ASSEMBLY, TYPE IIA	2.00	EACH	\$7,000.000	\$14,000.00
621.8120	GUARDRAIL APPROACH SECTION, 2 RAIL BOX BEAM	4.00	EACH	\$10,000.000	\$40,000.00
630.1000	UNIFORMED TRAFFIC OFFICERS	600.00	HR	\$90.000	\$54,000.00
630.1500	FLAGGERS	2,900.00	HR	\$65.000	\$188,500.00
635.1100	MOBILIZATION/DEMOBILIZATION	1.00	LS	\$2,287,120.082	\$2,287,120.08
641.1100	TRAFFIC CONTROL, ALL-INCLUSIVE	1.00	LS	\$1,500,000.000	\$1,500,000.00
641.1200	MAINTENANCE OF PEDESTRIAN TRAFFIC	1.00	LS	\$20,000.000	\$20,000.00
641.1500	PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH	\$18,000.000	\$36,000.00
646.2010	4 INCH WHITE LINE, WATERBORNE PAINT	2,400.00	LF	\$1.071	\$2,570.40
646.2111	4 INCH YELLOW LINE, WATERBORNE PAINT	2,380.00	LF	\$1.065	\$2,534.70
646.3010	LETTER OR SYMBOL, WATERBORNE PAINT	12.00	EACH	\$125.000	\$1,500.00
646.3110	CROSSWALK MARKING, WATERBORNE PAINT	30.00	LF	\$18.250	\$547.50
646.4040	DURABLE 4 INCH WHITE LINE, POLYUREA	680.00	LF	\$4.800	\$3,264.00
646.4140	DURABLE 4 INCH YELLOW LINE, POLYUREA	890.00	LF	\$4.800	\$4,272.00
646.4840	DURABLE 24 INCH STOP BAR, POLYUREA	100.00	LF	\$30.000	\$3,000.00
646.4940	DURABLE LETTER OR SYMBOL, POLYUREA	16.00	EACH	\$250.000	\$4,000.00
651.1500	TURF ESTABLISHMENT, GENERAL SEED	12,450.00	SY	\$2.000	\$24,900.00
651.3500	TOPSOIL	1,440.00	CY	\$80.000	\$115,200.00
675.2000	TRAFFIC SIGN, FLAT SHEET ALUMINUM	137.64	SF	\$28.514	\$3,924.67
675.3410	SQUARE TUBE SIGN POST AND ANCHOR	330.00	LF	\$22.018	\$7,265.94
675.5000	SIGN REMOVAL, FLAT SHEET ALUMINUM	37.00	EACH	\$20.187	\$746.92
675.6000	RESETTING SIGNS	2.00	EACH	\$90.896	\$181.79

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Category total: \$6,081,642.94

Category

**1041 - LANDSCAPING**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
656.3002	DECIDUOUS TREES, MEDIUM	(ACER RUBRUM)(1-1 1/2 IN. CAL.)	33.00	EACH	\$2,363.893	\$78,008.47
656.3002	DECIDUOUS TREES, MEDIUM	(AMELANCHIER X GRANDIFLORA)(4-5 FT HT./MULTI-STEM)	48.00	EACH	\$2,871.683	\$137,840.78
656.3500	DECIDUOUS SHRUBS	(CORNUS RACEMOSA)(18-24 IN SPD.)	62.00	EACH	\$162.488	\$10,074.26
656.3500	DECIDUOUS SHRUBS	(CORNUS STOLONIFERA ) (12-18 IN. SPD.)	92.00	EACH	\$285.000	\$26,220.00
656.3500	DECIDUOUS SHRUBS	(PHYSOCARPUS OPULIFOLIUS)(18-24 IN. SPD.)	67.00	EACH	\$285.000	\$19,095.00
656.3500	DECIDUOUS SHRUBS	(SALIX DISCOLOR)(12-18 IN. SPD.)	112.00	EACH	\$175.500	\$19,656.00

Category total: \$290,894.51

Category

**1051 - EROSION CONTROL**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
633.1000	CPM SCHEDULE		40.00	EACH	\$1,000.000	\$40,000.00
653.0100	EPSC PLAN		1.00	LS	\$10,000.000	\$10,000.00
653.0200	MONITORING EPSC PLAN		440.00	HR	\$58.643	\$25,802.92
653.0300	MAINTENANCE OF EPSC PLAN (N.A.B.I.)		25,000.00	DL	\$1.000	\$25,000.00
653.1000	HAY MULCH		2.00	TON	\$1,500.000	\$3,000.00
653.2001	ROLLED EROSION CONTROL PRODUCT, TYPE I		7,690.00	SY	\$4.500	\$34,605.00
653.3500	STABILIZED CONSTRUCTION ENTRANCE		40.00	CY	\$150.000	\$6,000.00
653.4001	INLET PROTECTION DEVICE, TYPE I		3.00	EACH	\$200.000	\$600.00
653.4002	INLET PROTECTION DEVICE, TYPE II		10.00	EACH	\$300.000	\$3,000.00
653.4003	INLET PROTECTION DEVICE, TYPE III		20.00	CY	\$150.000	\$3,000.00
653.4500	FILTER BAG		20.00	EACH	\$716.284	\$14,325.68
653.4701	SILT FENCE, TYPE I		890.00	LF	\$8.000	\$7,120.00
653.4702	SILT FENCE, TYPE II		940.00	LF	\$12.000	\$11,280.00
653.5000	BARRIER FENCE		600.00	LF	\$3.420	\$2,052.00
653.5500	PROJECT DEMARCATION FENCE		1,690.00	LF	\$2.397	\$4,050.93
653.6000	EROSION LOG		360.00	LF	\$7.678	\$2,764.08

Category total: \$192,600.61

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Category

**1081 - UTILITIES - BID ITEMS**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
625.6002	WIRED CONDUIT, 2 INCH		840.00	LF	\$25.272	\$21,228.48
625.7000	POWER DROP STANCHION		1.00	EACH	\$10,000.000	\$10,000.00
625.7010	JUNCTION BOX		1.00	EACH	\$5,000.000	\$5,000.00
629.1748	DUCTILE IRON WATER PIPE, CEMENT-LINED, ALL-INCLUSIVE, 12 IN.		25.00	LF	\$300.000	\$7,500.00
629.2448	GATE VALVE WITH VALVE BOX, 12 INCH		1.00	EACH	\$5,000.000	\$5,000.00
629.2800	ADJUST ELEVATION OF VALVE BOX		4.00	EACH	\$280.000	\$1,120.00
629.3600	RELOCATE HYDRANT		1.00	EACH	\$3,534.389	\$3,534.39
629.3800	REMOVE HYDRANT		1.00	EACH	\$5,000.000	\$5,000.00
629.4300	TRANSFER TO NEW SYSTEM, WATER, ALL- INCLUSIVE		1.00	LS	\$20,000.000	\$20,000.00
679.4600	STREET LIGHT ASSEMBLY		6.00	EACH	\$10,000.000	\$60,000.00
679.5400	STREET LIGHTING CONTROL DEVICE		1.00	EACH	\$1,500.000	\$1,500.00
SS013	SS-PLACEHOLDER-LS	(WATERLINE ON BRIDGE)	1.00	LS	\$1,500,000.000	\$1,500,000.00
Category total:						\$1,639,882.87

Category

**1211 - BRIDGE NO. 1**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
203.3200	GRANULAR BORROW		590.00	CY	\$80.000	\$47,200.00
204.2500	STRUCTURE EXCAVATION		375.00	CY	\$35.000	\$13,125.00
204.3000	GRANULAR BACKFILL FOR STRUCTURES		1,030.00	CY	\$70.000	\$72,100.00
208.3000	COFFERDAM EXCAVATION, EARTH		150.00	CY	\$80.000	\$12,000.00
208.3500	COFFERDAM EXCAVATION, ROCK		70.00	CY	\$100.000	\$7,000.00
208.4000	COFFERDAM		1.00	LS	\$750,000.000	\$750,000.00
221.1000	ROCK SLOPE STABILIZATION DOWEL		640.00	LF	\$180.000	\$115,200.00
221.1500	ROCK SLOPE STABILIZATION DOWEL TESTING		2.00	EACH	\$2,000.000	\$4,000.00
230.0010	DISPOSAL OF CONTAMINATED MATERIALS (N.A.B.I.)		54,000.00	DL	\$1.000	\$54,000.00
230.0030	PROJECT OPERATIONS PLAN		1.00	LS	\$50,000.000	\$50,000.00
230.0040	PROJECT OPERATIONS COMPLETION REPORT		1.00	LS	\$20,000.000	\$20,000.00
230.0050	ENVIRONMENTAL OVERSIGHT		500.00	HR	\$90.000	\$45,000.00
250.0100	CONSTRUCTION VIBRATION AND CRACK MONITORING		1.00	LS	\$30,000.000	\$30,000.00
501.3800	PERFORMANCE-BASED CONCRETE, CLASS PCS	(FPQ)	760.00	CY	\$2,000.000	\$1,520,000.00
503.1000	DRILLED SHAFT IN EARTH		110.00	LF	\$4,000.000	\$440,000.00

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503.1500	DRILLED SHAFT IN ROCK		24.00	LF	\$12,000.000	\$288,000.00
503.2000	DRILLED SHAFT OBSTRUCTION DRILLING AND REMOVAL		20.00	LF	\$12,000.000	\$240,000.00
503.2500	MOBILIZATION OF DRILLED SHAFT EQUIPMENT		1.00	LS	\$1,100,000.000	\$1,100,000.00
504.1000	FURNISHING EQUIPMENT FOR DRIVING PILING		1.00	LS	\$650,000.000	\$650,000.00
505.1900	STEEL PILING, HP 14 x 102		690.00	LF	\$150.000	\$103,500.00
505.4500	DYNAMIC PILE LOADING TEST		2.00	EACH	\$5,149.091	\$10,298.18
506.5500	STRUCTURAL STEEL, PLATE GIRDER	(WEATHERING)(FPQ)	818,320.00	LB	\$5.000	\$4,091,600.00
507.1100	REINFORCING STEEL, LEVEL I	(EPOXY COATED)(FPQ)	24,340.00	LB	\$2.950	\$71,803.00
507.1100	REINFORCING STEEL, LEVEL I	(FPQ)	62,000.00	LB	\$3.400	\$210,800.00
507.1900	MECHANICAL BAR CONNECTOR		96.00	EACH	\$400.000	\$38,400.00
508.1500	SHEAR CONNECTORS	(5508 - 7/8 X 7)	1.00	LS	\$50,000.000	\$50,000.00
514.1000	WATER REPELLENT, SILANE		80.00	GAL	\$160.000	\$12,800.00
519.1000	MEMBRANE WATERPROOFING, SPRAY APPLIED	(FPQ)	1,200.00	SY	\$120.000	\$144,000.00
524.1100	JOINT SEALER, HOT Poured		60.00	LF	\$43.141	\$2,588.46
525.5100	BRIDGE RAILING, GALV. STEEL HAND RAIL/CONC. PARAPET COMB.	(FPQ)	781.00	LF	\$1,150.000	\$898,150.00
528.1100	TWO LANE TEMPORARY BRIDGE	(10800 SF - EST)	1.00	LS	\$4,500,000.000	\$4,500,000.00
529.1500	REMOVAL OF STRUCTURE	(12900 SF - EST)	1.00	EACH	\$1,000,000.000	\$1,000,000.00
531.1500	BEARING DEVICE ASSEMBLY, HIGH LOAD MULTI-ROTATIONAL		8.00	EACH	\$15,000.000	\$120,000.00
541.2300	CONCRETE, CLASS C		90.00	CY	\$1,200.000	\$108,000.00
613.0604	E-STONE FILL, TYPE IV		65.00	CY	\$102.668	\$6,673.42
613.1001	STONE FILL, TYPE I		15.00	CY	\$135.000	\$2,025.00
613.1002	STONE FILL, TYPE II		2,930.00	CY	\$150.000	\$439,500.00
634.1000	EMPLOYEE TRAINEESHIP		1,040.00	HR	\$32.500	\$33,800.00
649.3100	GEOTEXTILE UNDER STONE FILL		4,460.00	SY	\$1.604	\$7,153.84
651.4012	GRUBBING MATERIAL, 12 INCH		2,530.00	SY	\$11.276	\$28,528.28
SS007	SS-PLACEHOLDER-EA	(FRP SCUPPERS)	2.00	EACH	\$12,000.000	\$24,000.00
SS012	SS-PLACEHOLDER-LF	(BRIDGE EXPANSION JOINT, STRIP SEAL)(FPQ)	60.00	LF	\$3,300.000	\$198,000.00
					Category total:	\$17,559,245.18

Category  
**1999 - FULL C.E. ITEMS**

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
631.1000	FIELD OFFICE, ENGINEER'S		1.00	LS	\$120,000.000	\$120,000.00
631.1600	TESTING EQUIPMENT, CONCRETE		1.00	LS	\$2,000.000	\$2,000.00
631.1700	TESTING EQUIPMENT, BITUMINOUS		1.00	LS	\$700.000	\$700.00
631.2600	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)		9,000.00	DL	\$1.000	\$9,000.00

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Category total: \$131,700.00

Category

**1211 - BRIDGE NO. 1**

Alt Group: DECK OPTIONS

Alt: CAST-IN-PLACE DECK

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
501.3700	PERFORMANCE-BASED CONCRETE, CLASS PCD	(FPQ)	560.00	CY	\$3,500.000	\$1,960,000.00
507.1200	REINFORCING STEEL, LEVEL II	(FPQ)	189,650.00	LB	\$2.950	\$559,467.50

Category total: \$2,519,467.50

Category

**1211 - BRIDGE NO. 1**

Alt Group: DECK OPTIONS

Alt: PRECAST DECK PANELS

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
501.3700	PERFORMANCE-BASED CONCRETE, CLASS PCD	(FPQ)	470.00	CY	\$3,500.000	\$1,645,000.00
507.1200	REINFORCING STEEL, LEVEL II	(FPQ)	157,250.00	LB	\$2.950	\$463,887.50
510.4000	PRESTRESSED CONCRETE DECK PANELS	(3 1/2 IN.)(FPQ)	8,920.00	SF	\$35.000	\$312,200.00
541.2000	CONCRETE, CLASS AA		22.00	CY	\$1,800.000	\$39,600.00

Category total: \$2,460,687.50

**Grand Total:** \$28,356,653.61