

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

Phase: CONTRACT	Designed By:
Estimate Date: 21 January, 2025	Reviewed By:
Specification: Standard Specifications for Construction	Approved By:
Region: NORTHWEST	Work Type: BRIDGE CONSTRUCTION
Town:	Highway Type: INTERSTATE, FREEWAY, EXPRESSWAY (URBAN)
Advertising Season: CONSTRUCTION SEASON	Urban/Rural: URBAN
Description: WORK TO BE PERFORMED INCLUDES CONSTRUCTION OF A NEW MULTI-USE PATH AND A PEDESTRIAN BRIDGE. PROJECT WILL INCLUDE PAUSE PLACES WITH BENCHES, MSE WALLS, RAILING, LIGHTING, AND STORMWATER INFRASTRUCTURE.	

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	\$25,000.000	\$25,000.00
203.1500	COMMON EXCAVATION		3,700.00	CY	\$22.331	\$82,624.70
203.1600	SOLID ROCK EXCAVATION		50.00	CY	\$153.163	\$7,658.15
203.2800	EXCAVATION OF SURFACES AND PAVEMENTS		5.00	CY	\$37.000	\$185.00
203.3000	EARTH BORROW		500.00	CY	\$14.453	\$7,226.50
203.3100	SAND BORROW		390.00	CY	\$45.421	\$17,714.19
204.2000	TRENCH EXCAVATION OF EARTH		1,800.00	CY	\$50.000	\$90,000.00
204.2200	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)		1.00	CY	\$75.000	\$75.00
204.2500	STRUCTURE EXCAVATION		3,100.00	CY	\$30.959	\$95,972.90
204.3000	GRANULAR BACKFILL FOR STRUCTURES		1,400.00	CY	\$60.956	\$85,338.40
227.0100	RETAINING WALL, MECHANICALLY STABILIZED EARTH		1.00	LS	\$1,000,000.000	\$1,000,000.00
227.0100	RETAINING WALL, MECHANICALLY STABILIZED EARTH	(FGA)	1.00	LS	\$3,500,000.000	\$3,500,000.00
301.3500	SUBBASE OF DENSE GRADED CRUSHED STONE		1,800.00	CY	\$57.435	\$103,383.00
401.1500	AGGREGATE SURFACE COURSE, PATHS AND TRAILS		50.00	CY	\$71.000	\$3,550.00
404.1100	TACK COAT, EMULSIFIED ASPHALT		14.00	CWT	\$85.203	\$1,192.84
406.0230	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER III		5.00	TON	\$348.444	\$1,742.22
406.0430	BITUMINOUS CONCRETE PAVEMENT, TYPE IVS, QA TIER III		790.00	TON	\$181.912	\$143,710.48
406.9100	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)		1.00	DL	\$1.000	\$1.00
406.9200	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)		1.00	DL	\$1.000	\$1.00
507.1100	REINFORCING STEEL, LEVEL I		100.00	LB	\$2.428	\$242.80
522.3000	NONSTRUCTURAL LUMBER, UNTREATED		0.30	MFBM	\$8,000.000	\$2,400.00

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

541.2200	CONCRETE, CLASS B	10.00	CY	\$1,382.407	\$13,824.07
601.2605	12 INCH CPEP(SL)	1,130.00	LF	\$65.000	\$73,450.00
601.2610	15 INCH CPEP(SL)	10.00	LF	\$70.000	\$700.00
601.2615	18 INCH CPEP(SL)	280.00	LF	\$80.000	\$22,400.00
601.2620	24 INCH CPEP(SL)	120.00	LF	\$100.000	\$12,000.00
601.2630	36 INCH CPEP(SL)	700.00	LF	\$120.000	\$84,000.00
601.7005	12 INCH CPEPES	4.00	EACH	\$800.000	\$3,200.00
601.7020	24 INCH CPEPES	1.00	EACH	\$900.000	\$900.00
601.7030	36 INCH CPEPES	1.00	EACH	\$1,000.000	\$1,000.00
604.1800	PRECAST REINFORCED CONCRETE DI WITH (4 FOOT DIA.) CAST IRON GRATE	1.00	EACH	\$5,500.000	\$5,500.00
604.1800	PRECAST REINFORCED CONCRETE DI WITH (5 FOOT DIA.) CAST IRON GRATE	2.00	EACH	\$8,000.000	\$16,000.00
604.1800	PRECAST REINFORCED CONCRETE DI WITH (8 FOOT DIA.) CAST IRON GRATE	1.00	EACH	\$10,000.000	\$10,000.00
604.2000	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	10.00	EACH	\$6,595.623	\$65,956.23
604.2000	PRECAST REINFORCED CONCRETE CATCH (24 INCH SQUARE CATCH BASIN WITH CAST IRON GRATE BASIN)	3.00	EACH	\$6,904.368	\$20,713.10
604.2100	PRECAST REINFORCED CONCRETE (4 FOOT DIA.) MANHOLE WITH CAST IRON COVER	1.00	EACH	\$6,750.000	\$6,750.00
604.2100	PRECAST REINFORCED CONCRETE (5 FOOT DIA.) MANHOLE WITH CAST IRON COVER	4.00	EACH	\$8,000.000	\$32,000.00
605.9500	UNDERDRAIN FLUSHING BASIN	3.00	EACH	\$500.000	\$1,500.00
609.1000	DUST CONTROL WITH WATER	240.00	MGAL	\$50.000	\$12,000.00
613.1001	STONE FILL, TYPE I	80.00	CY	\$93.640	\$7,491.20
616.2100	VERTICAL GRANITE CURB	40.00	LF	\$150.000	\$6,000.00
616.2702	CAST-IN-PLACE CONCRETE CURB, TYPE B	80.00	LF	\$105.330	\$8,426.40
618.1005	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	90.00	SY	\$198.900	\$17,901.00
618.3000	DETECTABLE WARNING SURFACE	106.00	SF	\$54.472	\$5,774.03
619.1700	YIELDING MARKER POSTS	20.00	EACH	\$85.470	\$1,709.40
620.1006	CHAIN-LINK FENCE, 6 FOOT	1,070.00	LF	\$48.500	\$51,895.00
620.2006	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FOOT	16.00	EACH	\$800.000	\$12,800.00
620.4500	PLANK RAIL FENCE	340.00	LF	\$60.000	\$20,400.00
620.5500	REMOVAL OF EXISTING FENCE	2,020.00	LF	\$2.703	\$5,460.06
620.9000	HAND RAILING	2,940.00	LF	\$50.000	\$147,000.00
621.1260	HD STEEL BEAM GUARDRAIL	2,410.00	LF	\$28.000	\$67,480.00
621.1530	ANCHOR FOR STEEL BEAM GUARDRAIL, MGS	2.00	EACH	\$1,427.445	\$2,854.89
621.3030	MTS, MGS, TANGENT, TL-3	1.00	EACH	\$3,170.401	\$3,170.40
621.3130	MTS, MGS, FLARED, TL-3	1.00	EACH	\$3,345.887	\$3,345.89
630.1000	UNIFORMED TRAFFIC OFFICERS	1,500.00	HR	\$100.000	\$150,000.00
630.1500	FLAGGERS	1,000.00	HR	\$47.908	\$47,908.00
633.1000	CPM SCHEDULE	24.00	EACH	\$686.151	\$16,467.62

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

635.1100	MOBILIZATION/DEMobilIZATION		1.00	LS	\$1,212,282.349	\$1,212,282.35
641.1100	TRAFFIC CONTROL, ALL-INCLUSIVE		1.00	LS	\$500,000.000	\$500,000.00
641.1500	PORTABLE CHANGEABLE MESSAGE SIGN		4.00	EACH	\$4,641.188	\$18,564.75
646.4060	DURABLE 4 INCH WHITE LINE, RECESSED POLYUREA		1,650.00	LF	\$1.257	\$2,074.05
646.4660	DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA		131.00	LF	\$13.000	\$1,703.00
646.4960	DURABLE LETTER OR SYMBOL, RECESSED POLYUREA		90.00	EACH	\$175.000	\$15,750.00
649.1100	GEOTEXTILE FOR ROADBED SEPARATOR		4,120.00	SY	\$2.284	\$9,410.08
649.3100	GEOTEXTILE UNDER STONE FILL		190.00	SY	\$5.500	\$1,045.00
654.0015	DRY SWALE WITH UNDERDRAIN		220.00	LF	\$100.000	\$22,000.00
675.2000	TRAFFIC SIGN, FLAT SHEET ALUMINUM		33.50	SF	\$37.590	\$1,259.27
675.3410	SQUARE TUBE SIGN POST AND ANCHOR		210.00	LF	\$22.541	\$4,733.61
675.5000	SIGN REMOVAL, FLAT SHEET ALUMINUM		4.00	EACH	\$36.035	\$144.14
675.6000	RESETTING SIGNS		2.00	EACH	\$81.929	\$163.86
690.0300	PRICE ADJUSTMENT, ASPHALT (N.A.B.I.)		1.00	DL	\$1.000	\$1.00
SS007	SS-PLACEHOLDER-EA	(LANDSCAPE BENCH)	5.00	EACH	\$1,000.000	\$5,000.00
SS012	SS-PLACEHOLDER-LF	(PEDESTRIAN BARRIER ON BRIDGE)	2,930.00	LF	\$250.000	\$732,500.00
SS017	SS-PLACEHOLDER-SF	(BRICK PAVERS)	860.00	SF	\$27.000	\$23,220.00
SS017	SS-PLACEHOLDER-SF	(MUNICIPAL GUIDANCE SIGNS)	20.00	SF	\$80.000	\$1,600.00
SS017	SS-PLACEHOLDER-SF	(MUNICIPAL KIOSK SIGNS)	9.00	SF	\$80.000	\$720.00
Category total:						\$8,678,166.58

Category

1031 - TRAINING

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
634.1000	EMPLOYEE TRAINEESHIP		1,040.00	HR	\$18.988	\$19,747.52
Category total:						\$19,747.52

Category

1041 - LANDSCAPING

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
656.2003	EVERGREEN TREES, LARGE		25.00	EACH	\$700.000	\$17,500.00
656.3003	DECIDUOUS TREES, LARGE		79.00	EACH	\$700.000	\$55,300.00
656.3500	DECIDUOUS SHRUBS		943.00	EACH	\$94.504	\$89,117.27
656.4000	GROUND COVERS AND VINES		247.00	EACH	\$65.000	\$16,055.00
656.4100	PERENNIALS		448.00	EACH	\$85.000	\$38,080.00
656.6500	LANDSCAPE WATERING		50.00	MGAL	\$69.820	\$3,491.00

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

656.8000	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	1,600.00	CY	\$70.968	\$113,548.80
				Category total:	\$333,092.07

Category
1051 - EROSION CONTROL

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
651.1500	TURF ESTABLISHMENT, GENERAL SEED		2,670.00	SY	\$2.000	\$5,340.00
651.1600	TURF ESTABLISHMENT, SPECIALTY SEED		11,500.00	SY	\$2.500	\$28,750.00
651.3500	TOPSOIL		1,900.00	CY	\$51.563	\$97,969.70
653.0100	EPSC PLAN		1.00	LS	\$5,000.000	\$5,000.00
653.0200	MONITORING EPSC PLAN		200.00	HR	\$45.712	\$9,142.40
653.0300	MAINTENANCE OF EPSC PLAN (N.A.B.I.)		5,000.00	DL	\$1.000	\$5,000.00
653.2001	ROLLED EROSION CONTROL PRODUCT, TYPE I		2,200.00	SY	\$3.248	\$7,145.60
653.2501	CHECK DAM, TYPE I		10.00	CY	\$115.293	\$1,152.93
653.3500	STABILIZED CONSTRUCTION ENTRANCE		150.00	CY	\$60.185	\$9,027.75
653.4001	INLET PROTECTION DEVICE, TYPE I		8.00	EACH	\$196.569	\$1,572.55
653.4002	INLET PROTECTION DEVICE, TYPE II		4.00	EACH	\$250.000	\$1,000.00
653.4003	INLET PROTECTION DEVICE, TYPE III		10.00	CY	\$110.000	\$1,100.00
653.4701	SILT FENCE, TYPE I		720.00	LF	\$4.768	\$3,432.96
653.4702	SILT FENCE, TYPE II		150.00	LF	\$6.876	\$1,031.40
653.5000	BARRIER FENCE		850.00	LF	\$3.190	\$2,711.50
653.5500	PROJECT DEMARCATION FENCE		2,480.00	LF	\$1.897	\$4,704.56
656.8500	TREE PROTECTION		1.00	LS	\$5,000.000	\$5,000.00
				Category total:		\$189,081.35

Category
1081 - UTILITIES - BID ITEMS

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
541.4600	FLOWABLE FILL, EXCAVATABLE		2.00	CY	\$425.880	\$851.76
604.4000	CHANGING ELEVATION OF DIS, CATCH BASINS, OR MANHOLES		6.00	EACH	\$1,341.249	\$8,047.49
622.1000	INSULATION BOARD		0.40	MFBM	\$2,375.000	\$950.00
625.3024	SLEEVES FOR UTILITIES, STEEL, 24 INCH		32.00	LF	\$200.000	\$6,400.00
625.6000	WIRED CONDUIT	(1 INCH)(PVC)(SCH. 40)	700.00	LF	\$30.028	\$21,019.60
625.6000	WIRED CONDUIT	(1.5 INCH)(PVC)(SCH. 40)	3,010.00	LF	\$20.525	\$61,780.25
625.6002	WIRED CONDUIT, 2 INCH	(PVC)(SCH.40)	3,380.00	LF	\$25.044	\$84,648.72
625.7000	POWER DROP STANCHION		1.00	EACH	\$7,500.000	\$7,500.00

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

625.7010	JUNCTION BOX		5.00	EACH	\$5,000.000	\$25,000.00
629.1748	DUCTILE IRON WATER PIPE, CEMENT-LINED, ALL-INCLUSIVE, 12 IN.		160.00	LF	\$250.000	\$40,000.00
629.2524	GATE VALVE WITH VALVE BOX, ALL- INCLUSIVE, 6 INCH		1.00	EACH	\$4,000.000	\$4,000.00
629.2548	GATE VALVE WITH VALVE BOX, ALL- INCLUSIVE, 12 INCH		2.00	EACH	\$5,000.000	\$10,000.00
629.2800	ADJUST ELEVATION OF VALVE BOX		2.00	EACH	\$261.010	\$522.02
629.3500	HYDRANT, ALL-INCLUSIVE		1.00	EACH	\$5,000.000	\$5,000.00
629.3800	REMOVE HYDRANT		1.00	EACH	\$1,000.000	\$1,000.00
629.4300	TRANSFER TO NEW SYSTEM, WATER, ALL- INCLUSIVE		1.00	LS	\$10,000.000	\$10,000.00
679.2500	REMOVE AND RESET LIGHT POLE		1.00	EACH	\$5,000.000	\$5,000.00
679.4600	STREET LIGHT ASSEMBLY		55.00	EACH	\$7,500.000	\$412,500.00
679.5000	LUMINAIRE	(TYPE B LIGHT FIXTURES, RIBS)	11.00	EACH	\$1,393.372	\$15,327.09
679.5000	LUMINAIRE	(TYPE C LIGHT FIXTURES, BRIDGE HAND RAILING)	28.00	EACH	\$1,213.925	\$33,989.90
679.5400	STREET LIGHTING CONTROL DEVICE		1.00	EACH	\$5,000.000	\$5,000.00
SS007	SS-PLACEHOLDER-EA	(RELOCATE PEDESTRIAN SIGNAL)	1.00	EACH	\$0.000	\$0.00
					Category total:	\$758,536.84

Category
1211 - BRIDGE NO. 1

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
501.3700	PERFORMANCE-BASED CONCRETE, CLASS PCD		240.00	CY	\$1,800.000	\$432,000.00
501.3800	PERFORMANCE-BASED CONCRETE, CLASS PCS		460.00	CY	\$1,300.000	\$598,000.00
504.1000	FURNISHING EQUIPMENT FOR DRIVING PILING		1.00	LS	\$200,000.000	\$200,000.00
505.1800	STEEL PILING, HP 14 × 89		1,850.00	LF	\$110.000	\$203,500.00
505.4500	DYNAMIC PILE LOADING TEST		3.00	EACH	\$4,000.000	\$12,000.00
506.6000	STRUCTURAL STEEL	(GALVANIZED)	102,600.00	LB	\$15.000	\$1,539,000.00
507.1100	REINFORCING STEEL, LEVEL I		17,000.00	LB	\$2.428	\$41,276.00
507.1200	REINFORCING STEEL, LEVEL II		108,790.00	LB	\$2.565	\$279,046.35
508.1500	SHEAR CONNECTORS		1.00	LS	\$24,000.000	\$24,000.00
514.1000	WATER REPELLENT, SILANE		15.00	GAL	\$250.000	\$3,750.00
531.1500	BEARING DEVICE ASSEMBLY, HIGH LOAD MULTI-ROTATIONAL		6.00	EACH	\$10,000.000	\$60,000.00
540.1500	PRECAST CONCRETE STRUCTURE	(MOMENT SLABS)	18.00	EACH	\$2,500.000	\$45,000.00
SS008	SS-PLACEHOLDER-GAL	(ANTI-GRAFFITI COATING)	60.00	GAL	\$500.000	\$30,000.00
SS012	SS-PLACEHOLDER-LF	(BRIDGE EXPANSION JOINT, STRIP SEAL)	40.00	LF	\$1,500.000	\$60,000.00
SS016	SS-PLACEHOLDER-LB	(STRUCTURAL STEEL, CURVED BOX GIRDER)	400,230.00	LB	\$5.500	\$2,201,265.00

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

SS017	SS-PLACEHOLDER-SF	(AESTHETIC BRIDGE PANELS)	4,770.00	SF	\$130.000	\$620,100.00
					Category total:	\$6,348,937.35

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	\$30,000.000	\$30,000.00
631.1600	TESTING EQUIPMENT, CONCRETE		1.00	LS	\$1,500.000	\$1,500.00
631.1700	TESTING EQUIPMENT, BITUMINOUS		1.00	LS	\$750.000	\$750.00
631.2600	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)		6,000.00	DL	\$1.000	\$6,000.00
					Category total:	\$38,250.00

Grand Total: \$16,365,811.71