



CONSTRUCTION COST ESTIMATE  
Intersection Improvements Project  
Route 20 at Boston Post Road and Wellesley Street  
Weston, Massachusetts  
(MassDOT Project File No. 608940)  
March 13, 2020

Item No.	Description	Unit of Measure	Unit Price	Quantity	Total
* 100.	SCHEDULE OF OPERATIONS - FIXED PRICE \$9,000	LUMP SUM	\$9,000.00	1	\$9,000.00
102	SELECTIVE CLEARING AND THINNING	ACRE	\$23,000.00	0.05	\$1,150.00
* 102.511	TREE PROTECTION - ARMORING & PRUNING	EACH	\$240.00	6	\$1,440.00
103.	TREE REMOVED - DIAMETER UNDER 24 INCHES	EACH	\$1,160.00	6	\$6,960.00
104.	TREE REMOVED - DIAMETER 24 INCHES AND OVER	EACH	\$2,200.00	2	\$4,400.00
120.1	UNCLASSIFIED EXCAVATION	CUBIC YARD	\$50.00	1,600	\$80,000.00
141.1	TEST PIT FOR EXPLORATION	CUBIC YARD	\$288.00	30	\$8,640.00
142.	CLASS B TRENCH EXCAVATION	CUBIC YARD	\$38.00	80	\$3,040.00
146.	DRAINAGE STRUCTURE REMOVED	EACH	\$698.00	4	\$2,792.00
150.	ORDINARY BORROW	CUBIC YARD	\$45.00	290	\$13,050.00
151.	GRAVEL BORROW	CUBIC YARD	\$45.00	1,000	\$45,000.00
151.2	GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	CUBIC YARD	\$53.00	180	\$9,540.00
156.	CRUSHED STONE	TON	\$42.00	20	\$840.00
170.	FINE GRADING AND COMPACTING - SUBGRADE AREA	SQUARE YARD	\$4.00	3,100	\$12,400.00
201.	CATCH BASIN	EACH	\$6,750.00	9	\$60,750.00
202.	MANHOLE	EACH	\$4,700.00	4	\$18,800.00
204	GUTTER INLET	EACH	\$2,000.00	2	\$4,000.00
220.	DRAINAGE STRUCTURE ADJUSTED	EACH	\$400.00	21	\$8,400.00
220.3	DRAINAGE STRUCTURE CHANGE IN TYPE	EACH	\$1,250.00	2	\$2,500.00
221.	FRAME AND COVER	EACH	\$1,000.00	19	\$19,000.00
222.1	FRAME AND GRATE - MASSDOT CASCADE TYPE	EACH	\$1,000.00	14	\$14,000.00
223.2	FRAME AND GRATE (OR COVER) REMOVED AND DISCARDED	EACH	\$88.00	14	\$1,232.00
227.3	REMOVAL OF DRAINAGE STRUCTURE SEDIMENT	CUBIC YARD	\$250.00	20	\$5,000.00
227.31	REMOVAL OF DRAINAGE PIPE SEDIMENT	FOOT	\$10.00	350	\$3,500.00
241.12	12 INCH REINFORCED CONCRETE PIPE	FOOT	\$116.00	530	\$61,480.00
358.	GATE BOX ADJUSTED	EACH	\$210.00	5	\$1,050.00
402.	DENSE GRADED CRUSHED STONE FOR SUB-BASE	CUBIC YARD	\$70.00	210	\$14,700.00
* 415.3	PAVEMENT MICRO MILLING	SQUARE YARD	\$8.00	7,600	\$60,800.00
431.	HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE	SQUARE YARD	\$58.00	250	\$14,500.00
440.	CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL	POUND	\$1.00	3,700	\$3,700.00
443.	WATER FOR ROADWAY DUST CONTROL	MGL	\$55.00	5	\$275.00
450.231	SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC - 12.5 - P)	TON	\$170.00	950	\$161,500.00
450.311	SUPERPAVE INTERMEDIATE COURSE - 12.5 POLYMER (SIC -12.5 - P)	TON	\$150.00	700	\$105,000.00
450.42	SUPERPAVE BASE COURSE - 37.5 (SBC-37.5)	TON	\$150.00	590	\$88,500.00
451.	HMA FOR PATCHING	TON	\$200.00	100	\$20,000.00
452.	ASPHALT EMULSION FOR TACK COAT	GALLON	\$10.00	1,500	\$15,000.00
453.	HMA JOINT SEALANT	FOOT	\$1.00	8,100	\$8,100.00
472.	TEMPORARY ASPHALT PATCHING	TON	\$235.00	100	\$23,500.00
482.5	SAWCUTTING ASPHALT PAVEMENT FOR BOX WIDENING	FOOT	\$3.00	1,700	\$5,100.00
506.	GRANITE CURB TYPE VB - STRAIGHT	FOOT	\$44.00	1,020	\$44,880.00
506.1	GRANITE CURB TYPE VB - CURVED	FOOT	\$52.00	230	\$11,960.00
509.	GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - STRAIGHT	FOOT	\$46.00	90	\$4,140.00
509.1	GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - CURVED	FOOT	\$60.00	120	\$7,200.00
514.	GRANITE CURB INLET - STRAIGHT	EACH	\$400.00	8	\$3,200.00
515	GRANITE CURB INLET - CURVED	EACH	\$383.00	3	\$1,149.00
580.	CURB REMOVED AND RESET	FOOT	\$33.00	770	\$25,410.00



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594.	CURB REMOVED AND DISCARDED	FOOT	\$7.00	770	\$5,390.00
620.12	GUARDRAIL, TL-2 (SINGLE FACED)	FOOT	\$30.00	300	\$9,000.00
627.1	TRAILING ANCHORAGE	EACH	\$2,000.00	1	\$2,000.00
627.82	GUARDRAIL TANGENT END TREATMENT, TL-2	EACH	\$4,000.00	1	\$4,000.00
* 655.3	PROP WOOD FENCE	FOOT	\$80.00	100	\$8,000.00
* 670.1	FENCE REMOVED AND DISCARDED	FOOT	\$10.00	100	\$1,000.00
* 691.	BALANCE STONE WALL REMOVED AND REBUILT	FOOT	\$170.00	200	\$34,000.00
* 697.1	SILT SACK	EACH	\$250.00	26	\$6,500.00
701.	CEMENT CONCRETE SIDEWALK	SQUARE YARD	\$54.00	30	\$1,620.00
701.2	CEMENT CONCRETE WHEELCHAIR RAMP	SQUARE YARD	\$100.00	120	\$12,000.00
702.	HOT MIX ASPHALT WALK SURFACE	TON	\$250.00	110	\$27,500.00
703.	HOT MIX ASPHALT DRIVEWAY	TON	\$275.00	10	\$2,750.00
* 740.	ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE A)	MONTH	\$3,800.00	12	\$45,600.00
748.	MOBILIZATION	LUMP SUM	\$50,000.00	1	\$50,000.00
751.	LOAM BORROW	CUBIC YARD	\$55.00	360	\$19,800.00
* 756.	NPDES STORMWATER POLLUTION PREVENTION PLAN	LUMP SUM	\$5,000.00	1	\$5,000.00
765.	SEEDING	SQUARE YARD	\$3.00	2,600	\$7,800.00
* 767.121	SEDIMENT CONTROL BARRIER	FOOT	\$10.00	370	\$3,700.00
769.	PAVEMENT MILLING MULCH UNDER GUARD RAIL	FOOT	\$7.00	620	\$4,340.00
772.000	TREE - EVERGREEN 8 - 10 FEET	EACH	\$800.00	5	\$4,000.00
775.000	TREE - DECIDUOUS 2 - 2.5 INCH	EACH	\$1,000.00	1	\$1,000.00
785.000	SHRUB - EVERGREEN 2 - 2.5 FEET	EACH	\$200.00	14	\$2,800.00
788.000	SHRUB - DECIDUOUS 2 - 2.5 FEET	EACH	\$100.00	77	\$7,700.00
796.000	PERENNIALS / GRASSES 1 GALLON	EACH	\$30.00	113	\$3,390.00
804.3	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)	FOOT	\$40.00	450	\$18,000.00
811.22	ELECTRIC HANDHOLE - SD2.022	EACH	\$1,200.00	2	\$2,400.00
811.31	PULL BOX 12 X 12 INCHES - SD2.031	EACH	\$1,000.00	6	\$6,000.00
* 812.16	STREET LIGHT REMOVED AND RESET	EACH	\$5,000.00	2	\$10,000.00
* 815.1	TRAFFIC CONTROL SIGNAL LOCATION NO. 1 - ROUTE 20 AT BOSTON POST ROAD & WELLESLEY STREET	LUMP SUM	\$253,000.00	1	\$253,000.00
* 829.05	ROADSIDE GUIDE SIGN (MA-D1-5) - ALUM. PANEL (TYPE B)	SQUARE FOOT	\$22.00	110	\$2,420.00
* 829.07	ROADSIDE GUIDE SIGN (MA-D1-7) - ALUM. PANEL (TYPE B)	SQUARE FOOT	\$22.00	50	\$1,100.00
832.	WARNING-REGULATORY AND ROUTE MARKER - ALUM. PANEL (TYPE A)	SQUARE FOOT	\$12.00	200	\$2,400.00
* 841.95	SUPPORTS FOR GUIDE SIGN (MA-D1-5) - ALUM. PANEL (TYPE B)	EACH	\$3,000.00	4	\$12,000.00
* 841.97	SUPPORTS FOR GUIDE SIGN (MA-D1-7) - ALUM. PANEL (TYPE B)	EACH	\$3,000.00	4	\$12,000.00
847.1	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL	EACH	\$132.00	40	\$5,280.00
850.41	ROADWAY FLAGGER	HOUR	\$60.00	90	\$5,400.00
852.	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	SQUARE FOOT	\$20.00	710	\$14,200.00
* 852.11	TEMPORARY PEDESTRIAN BARRICADE	FT	\$40.00	150	\$6,000.00
* 852.12	TEMPORARY PEDESTRIAN CURB RAMP	EACH	\$4,000.00	2	\$8,000.00
853.1	PORTABLE BREAKAWAY BARRICADE TYPE III	EACH	\$130.00	4	\$520.00
* 853.8	TEMPORARY ILLUMINATION FOR WORK ZONE	DAY	\$50.00	20	\$1,000.00
854.016	TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)	FOOT	\$0.25	8,000	\$2,000.00
854.036	TEMPORARY PAVEMENT MARKINGS - 6 INCH (TAPE)	FOOT	\$1.60	400	\$640.00
854.6	TEMPORARY PORTALBE RUMBLE STRIPS	DAY	\$75.00	50	\$3,750.00
856.12	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	\$25.00	112	\$2,800.00



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859.	REFLECTORIZED DRUM	DAY	\$0.25	11,000	\$2,750.00
* 859.1	REFLECTORIZED DRUM WITH SEQUENTIAL FLASHING WARNING LIGHTS	DAY	\$10.00	520	\$5,200.00
864.03	PAVEMENT LEGENDS REFLECTORIZED PREFORMED THERMOPLASTIC	LUMP SUM	\$3,200.00	1	\$3,200.00
864.04	PAVEMENT ARROW AND LEGENDS REFL. WHITE (THERMOPLASTIC)	SQUARE FOOT	\$7.00	200	\$1,400.00
* 864.1	GREEN FRICTION SURFACE FOR BIKE LANES	SQUARE FOOT	\$4.00	600	\$2,400.00
866.106	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	FOOT	\$1.00	5,800	\$5,800.00
* 866.108	8 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	FOOT	\$1.00	400	\$400.00
866.112	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	FOOT	\$3.00	1,100	\$3,300.00
867.106	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	FOOT	\$1.00	3,800	\$3,800.00
867.112	12 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	FOOT	\$3.25	250	\$812.50
874.	STREET NAME SIGN	EACH	\$100.00	10	\$1,000.00
* 874.2	TRAFFIC SIGN REMOVED AND RESET	EACH	\$100.00	10	\$1,000.00
* 874.4	TRAFFIC SIGN REMOVED AND STACKED	EACH	\$100.00	10	\$1,000.00

Construction Cost Subtotal: \$1,686,440.50

**NOTE:** Cost of Utility Pole Relocation (5 UP's) not included.

Construction Engineering & Construction Contingencies (15%): \$252,966.08

Police Detail (4.5%): \$75,889.82

Total: \$2,015,296.40

Say: **\$2,020,000.00**