

# CONSTRUCTION COST ESTIMATE

**DATE:** 1/13/16

**TEC #:** T0577

**DES.:** 75%

**EST:** CR/ADC

**PROJECT:** Main Street Roadway &  
Water Main Construction

**LOCATION:** Westford, MA

**CHECKED BY:** MCM/SJM

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
102.1	TREE TRIMMING	1000	FT	\$10.00	\$10,000.00
102.41	AIR SPADING AND ROOT PRUNING	5	EA	\$300.00	\$1,500.00
102.51	INDIVIDUAL TREE PROTECTION	10	EA	\$250.00	\$2,500.00
102.52	TEMPORARY TREE PROTECTION FENCE	300	FT	\$5.00	\$1,500.00
103.	TREE REMOVED - DIAMETER UNDER 24 INCHES	4	EA	\$725.00	\$2,900.00
120.	EARTH EXCAVATION	6900	CY	\$25.00	\$172,500.00
141.	CLASS A TRENCH EXCAVATION	20	CY	\$35.00	\$700.00
141.1	TEST PIT FOR EXPLORATION	75	CY	\$100.00	\$7,500.00
142.	CLASS B TRENCH EXCAVATION	50	CY	\$30.00	\$1,500.00
144.	CLASS B ROCK EXCAVATION	10	CY	\$100.00	\$1,000.00
146.	DRAINAGE STRUCTURE REMOVED	18	EA	\$500.00	\$9,000.00
146.1	DRAINAGE PIPE REMOVED	400	FT	\$15.00	\$6,000.00
150.	ORDINARY BORROW	800	CY	\$30.00	\$24,000.00
151.	GRAVEL BORROW	3000	CY	\$30.00	\$90,000.00
152.7	PEASTONE	15	TON	\$125.00	\$1,875.00
153.	CONTROLLED DENSITY FILL - EXCAVATABLE	125	CY	\$130.00	\$16,250.00
156.	CRUSHED STONE	2200	TON	\$40.00	\$88,000.00
170.	FINE GRADING AND COMPACTING	13500	SY	\$3.50	\$47,250.00
180.1	HEALTH AND SAFETY PLAN	1	LS	\$3,000.00	\$3,000.00
180.2	IMPLEMENTATION OF HEALTH AND SAFETY PLAN	20	HR	\$75.00	\$1,500.00
180.3	PERSONNEL PROTECTION LEVEL C UPGRADE	20	HR	\$25.00	\$500.00
180.5	LICENSED SITE PROFESSIONAL	20	HR	\$125.00	\$2,500.00
182.1	INSPECTION AND TESTING FOR ASBESTOS	1	LS	\$3,000.00	\$3,000.00
182.2	REMOVAL OF ASBESTOS	50	FT	\$100.00	\$5,000.00
201.	CATCH BASIN	16	EA	\$3,000.00	\$48,000.00
202.	MANHOLE	11	EA	\$3,200.00	\$35,200.00
220.	DRAINAGE STRUCTURE ADJUSTED	2	EA	\$300.00	\$600.00
220.2	DRAINAGE STRUCTURE REBUILT	3	FT	\$250.00	\$750.00
220.3	DRAINAGE STRUCTURE CHANGE IN TYPE	1	EA	\$600.00	\$600.00
220.5	DRAINAGE STRUCTURE REMODELED	1	EA	\$500.00	\$500.00
222.3	FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD	26	EA	\$900.00	\$23,400.00
224.12	12 INCH HOOD	16	EA	\$400.00	\$6,400.00
241.12	12 INCH REINFORCED CONCRETE PIPE	1700	FT	\$70.00	\$119,000.00
241.15	15 INCH REINFORCED CONCRETE PIPE	320	FT	\$75.00	\$24,000.00
241.18	18 INCH REINFORCED CONCRETE PIPE	40	FT	\$80.00	\$3,200.00
242.18	18 INCH REINFORCED CONCRETE PIPE FLARED END	1	EA	\$700.00	\$700.00
252.06	6 INCH CORRUGATED PLASTIC (POLYETHYLENE) PIPE	60	FT	\$50.00	\$3,000.00
258.	STONE FOR PIPE ENDS	10	SY	\$50.00	\$500.00
302.06	6 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	80	FT	\$100.00	\$8,000.00

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
302.08	8 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	150	FT	\$110.00	\$16,500.00
302.12	12 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	3800	FT	\$115.00	\$437,000.00
309.	DUCTILE IRON FITTINGS FOR WATER PIPE	2000	LB	\$6.00	\$12,000.00
336.1	1 INCH PLASTIC WATER PIPE	650	FT	\$40.00	\$26,000.00
345.41	4 INCH TEMPORARY WATER LINE BYPASS PIPE	2000	LF	\$10.00	\$20,000.00
350.06	6 INCH GATE AND GATE BOX	5	EA	\$1,500.00	\$7,500.00
350.08	8 INCH GATE AND GATE BOX	3	EA	\$1,750.00	\$5,250.00
350.12	12 INCH GATE AND GATE BOX	9	EA	\$2,900.00	\$26,100.00
357.06	6 INCH GATE BOX	1	EA	\$250.00	\$250.00
358.	GATE BOX ADJUSTED	2	EA	\$150.00	\$300.00
363.1	1 INCH CORPORATION COCK	28	EA	\$400.00	\$11,200.00
371.08	8 INCH COUPLING	3	EA	\$500.00	\$1,500.00
371.12	12 INCH COUPLING	1	EA	\$750.00	\$750.00
376.	HYDRANT	5	EA	\$5,000.00	\$25,000.00
376.3	HYDRANT - REMOVED AND STACKED	5	EA	\$500.00	\$2,500.00
381.3	SERVICE BOX ADJUSTED	1	EA	\$125.00	\$125.00
384	CURB STOP	28	EA	\$350.00	\$9,800.00
402.	DENSE GRADED CRUSHED STONE FOR SUB-BASE	1430	CY	\$60.00	\$85,800.00
402.12	DENSE GRADED CRUSHED STONE FOR SHOULDERS	60	CY	\$75.00	\$4,500.00
415.	PAVEMENT MICROMILLING	700	SY	\$10.00	\$7,000.00
420	HOT MIX ASPHALT BASE COURSE	2400	TON	\$110.00	\$264,000.00
440.	CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL	37850	LB	\$0.30	\$11,355.00
443.	WATER FOR ROADWAY DUST CONTROL	130	MGL	\$75.00	\$9,750.00
460.	HOT MIX ASPHALT	2450	TON	\$120.00	\$294,000.00
464.	BITUMEN FOR TACK COAT	1400	GAL	\$8.00	\$11,200.00
464.5	HOT Poured RUBBERIZED ASPHALT SEALER	12300	FT	\$1.00	\$12,300.00
472.	HOT MIX ASPHALT FOR MISCELLANEOUS WORK	500	TON	\$160.00	\$80,000.00
482.5	SAWCUTTING ASPHALT PAVEMENT FOR BOX WIDENING	100	FT	\$2.00	\$200.00
506.	GRANITE CURB TYPE VB - STRAIGHT	300	FT	\$35.00	\$10,500.00
506.1	GRANITE CURB TYPE VB - CURVED	625	FT	\$40.00	\$25,000.00
580.	CURB REMOVED AND RESET	75	FT	\$20.00	\$1,500.00
583.	EDGING REMOVED AND RESET	220	FT	\$15.00	\$3,300.00
593.	EDGING REMOVED AND STACKED	220	FT	\$5.00	\$1,100.00
620.1	STEEL W BEAM HIGHWAY GUARD (SINGLE FACED)	500	FT	\$30.00	\$15,000.00
620.3	STEEL W BEAM HIGHWAY GUARD - CURVED (SINGLE FACED)	15	FT	\$35.00	\$525.00
627.1	STEEL W BEAM TERMINAL SECTION (SINGLE FACED)	7	EA	\$60.00	\$420.00
627.8	STEEL BEAM HIGHWAY GUARD TANGENT END TREATMENT	7	EA	\$2,400.00	\$16,800.00
635.1	HIGHWAY GUARD REMOVED AND DISCARDED	360	FT	\$5.00	\$1,800.00
690.	STONE MASONRY WALL REM AND REBUILT IN MORTAR	2	CY	\$1,000.00	\$2,000.00
691.1	STONE WALL REMOVED AND RELAID IN SLOPE	150	FT	\$125.00	\$18,750.00
697.1	SILT SACK	20	EA	\$125.00	\$2,500.00
698.1	GEOTEXTILE FABRIC FOR STABILIZATION	600	SY	\$10.00	\$6,000.00
702.	HOT MIX ASPHALT WALK SURFACE	20	TON	\$175.00	\$3,500.00
703.	HOT MIX ASPHALT DRIVEWAY	180	TON	\$175.00	\$31,500.00
705.2	COBBLESTONE DRIVE REMOVED AND RESET	25	SY	\$100.00	\$2,500.00
715.1	MAIL BOX REMOVED AND RESET	10	EA	\$150.00	\$1,500.00
748.	MOBILIZATION	1	LS	\$65,000.00	\$65,000.00
751.	LOAM BORROW	500	CY	\$45.00	\$22,500.00

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Estimate Final

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
751.7	COMPOST TOPSOIL	100	CY	\$60.00	\$6,000.00
756.	NPDES STORMWATER POLLUTION PREVENTION PLAN	1	LS	\$3,500.00	\$3,500.00
765.	SEEDING	3600	SY	\$2.50	\$9,000.00
765.4	SEEDING RESTORATION MIX	600	SY	\$5.00	\$3,000.00
767.12	COMPOST FILTER TUBE	1800	FT	\$15.00	\$27,000.00
767.31	STRAW MULCH	3600	SY	\$2.00	\$7,200.00
769.	PAVEMENT MILLING MULCH UNDER GUARD RAIL	700	FT	\$6.00	\$4,200.00
770.	MISCELLANEOUS LANDSCAPING	1	LS	\$5,000.00	\$5,000.00
832.	WARN-REG AND RTE MKR - ALUM. PANEL (TYPE A)	70	SF	\$11.00	\$770.00
833.5	DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARD RAIL	16	EA	\$6.00	\$96.00
833.7	DELINEATION FOR GUARD RAIL TERMINI	16	EA	\$35.00	\$560.00
847.1	SIGN SUP (N/GUIDE) W/1 BKWY POST ASSY - STEEL	8	EA	\$110.00	\$880.00
852.	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	200	SF	\$12.00	\$2,400.00
853.1	PORTABLE BREAKAWAY BARRICADE TYPE III	4	EA	\$125.00	\$500.00
856.12	PORTABLE CHANGEABLE MESSAGE SIGN	420	DAY	\$25.00	\$10,500.00
859.	REFLECTORIZED DRUM	5250	DAY	\$0.25	\$1,312.50
864.04	PVMT ARROWS AND LEGENDS REFL. WHITE (THERMO)	120	SF	\$5.00	\$600.00
865.1	XWALK AND STOP LINES REFL. WHITE (THERMO)	220	SF	\$2.00	\$440.00
866.04	4 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	7650	FT	\$1.00	\$7,650.00
867.04	4 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	8000	FT	\$1.00	\$8,000.00
867.12	12 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	90	FT	\$2.00	\$180.00
874.	STREET NAME SIGN	8	EA	\$80.00	\$640.00
874.2	TRAFFIC SIGN REMOVED AND RESET	8	EA	\$100.00	\$800.00
874.4	TRAFFIC SIGN REMOVED AND STACKED	3	EA	\$40.00	\$120.00
874.7	MISCELLANEOUS SIGNS REMOVED AND STACKED	1	EA	\$100.00	\$100.00
903.	3000 PSI, 1.5 IN., 470 CEMENT CONCRETE	20	CY	\$1,000.00	\$20,000.00
904.	4000 PSI, 3/4 IN., 610 CEMENT CONCRETE	2	CY	\$1,000.00	\$2,000.00
910.1	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED	40	LB	\$5.00	\$200.00
986.	MODIFIED ROCKFILL	400	TON	\$60.00	\$24,000.00
<b>SUBTOTAL =</b>					\$2,533,548.50
<b>15% CONTINGENCY =</b>					\$380,032.28
<b>5% CONSTRUCTION ADMINISTRATION =</b>					\$126,677.43
<b>POLICE DETAIL ALLOWANCE =</b>					\$225,000.00
<b>TOTAL =</b>					\$3,265,258.20