



Project: Alewife Linear Park Reconstruction Project

Computed: BP

Date: 11/8/24

Project ID: 0

Checked: HN

Date: 11/8/24

HDR Job #: 10334207

QUANTITY CALCULATION

OPINION OF PROBABLE CONSTRUCTION COST

Item No	Item Description	Unit	Quantity	Unit Price	Total Cost
102.	SELECTIVE CLEARING AND THINNING	A	1	\$50,000.00	\$50,000.00
102.01	SELECTIVE CLEARING AND GRUBBING	LS	1	\$25,000.00	\$25,000.00
102.12	TREE TRIMMING	EA	94	\$500.00	\$20,500.00
102.4	ROOT PRUNNING / AIR SPADING - PROPOSED TREES AND SITE FEATURES	LS	1	\$50,000.00	\$50,000.00
102.41	AIR SPADING FOR PREPARATION OF ART AREAS	LS	1	\$3,300.00	\$3,300.00
102.41	ROOT PRUNNING / AIR SPADING - AREAS WITHIN DRIPLINE	LS	1	\$125,000.00	\$125,000.00
102.51	INDIVIDUAL TREE PROTECTION	EA	57	\$412.50	\$23,512.50
102.521	TREE AND PLANT PROTECTION FENCE	FT	2950	\$20.00	\$59,000.00
102.6	CORE AERATION	LS	1	\$2,000.00	\$2,000.00
103.	TREE REMOVED - DIAMETER UNDER 24 INCHES	EA	5	\$3,000.00	\$15,000.00
103.1	TREE REMOVED AND TRANSPLANTED UNDER 24 INCHES	EA	20	\$1,500.00	\$30,000.00
105.	STUMP REMOVED	EA	5	\$836.25	\$4,181.25
120.	EARTH EXCAVATION	CY	405	\$65.00	\$26,325.00
121.2	DISPOSAL OF BITUMINOUS CONCRETE	TON	945	\$30.00	\$28,350.00
141.1	TEST PIT FOR EXPLORATION	CY	28	\$200.00	\$5,600.00
145.	DRAINAGE STRUCTURE ABANDONED	EA	1	\$1,000.00	\$1,000.00
151.	GRAVEL BORROW	CY	1290	\$65.00	\$83,850.00
153.	CONTROLLED DENSITY FILL - EXCAVATABLE	CY	25	\$375.00	\$9,375.00
156.	CRUSHED STONE	TON	30	\$63.75	\$1,912.50
170.	FINE GRADING AND COMPACTING - SUBGRADE AREA	SY	15135	\$8.00	\$121,080.00
181.11	DISPOSAL OF UNREGULATED SOIL	TON	490	\$50.00	\$24,500.00
201.5	CATCH BASIN - MUNICIPAL STANDARD	EA	4	\$6,569.50	\$26,278.00
202.01	MANHOLE - MUNICIPAL STANDARD	EA	4	\$8,500.00	\$34,000.00
204.3	GUTTER INLET - MUNICIPAL STANDARD	EA	1	\$4,250.00	\$4,250.00
220.	DRAINAGE STRUCTURE ADJUSTED	EA	8	\$637.50	\$5,100.00
220.1	DRAINAGE STRUCTURE REMOVED	EA	4	\$500.00	\$2,000.00
220.3	DRAINAGE STRUCTURE CHANGE IN TYPE	EA	2	\$1,600.00	\$3,200.00
220.5	DRAINAGE STRUCTURE REMODELED	EA	1	\$1,230.00	\$1,230.00
220.7	SANITARY STRUCTURE ADJUSTED	EA	4	\$1,200.00	\$4,800.00
222.3	FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD	EA	8	\$1,280.00	\$10,240.00
223.2	FRAME AND GRATE (OR COVER) REMOVED AND DISCARDED	EA	5	\$500.00	\$2,500.00
225.52	TRAP AND HOOD MUNICIPAL STANDARD	EA	4	\$1,000.00	\$4,000.00
227.3	REMOVAL OF DRAINAGE STRUCTURE SEDIMENT	CY	6	\$350.00	\$2,100.00
227.31	REMOVAL OF DRAINAGE PIPE SEDIMENT	FT	1805	\$28.00	\$50,540.00
241.12	12 INCH REINFORCED CONCRETE PIPE	FT	20	\$170.00	\$3,400.00
250.04	4 INCH PLASTIC (POLYETHYLENE) PIPE	FT	16	\$147.00	\$2,352.00
252.12	12 INCH CORRUGATED PLASTIC (POLYETHYLENE) PIPE	FT	158	\$180.00	\$28,440.00
269.5	INFILTRATION SYSTEM - LOCATION NO.1	LS	1	\$15,000.00	\$15,000.00
269.51	INFILTRATION SYSTEM - LOCATION NO.2	LS	1	\$10,000.00	\$10,000.00
269.52	INFILTRATION SYSTEM - LOCATION NO.3	LS	1	\$8,000.00	\$8,000.00
269.53	INFILTRATION SYSTEM - LOCATION NO.4	LS	1	\$8,000.00	\$8,000.00
347.1	1 INCH COPPER TUBING TYPE K	LF	140	\$182.50	\$25,550.00
350.12	12 INCH GATE AND GATE BOX	EA	3	\$8,500.00	\$25,500.00
369.01	1 INCH SERVICE LINE SADDLE CONNECTION	EA	3	\$375.00	\$1,125.00
379.1	1 INCH AIR RELEASE VALVE	EA	3	\$2,150.00	\$6,450.00
381.	SERVICE BOX	EA	3	\$591.25	\$1,773.75
381.02	WATER SUPPLY CABINET (MUNICIPAL STANDARD)	EA	3	\$9,000.00	\$27,000.00
384.	CURB STOP	EA	3	\$1,137.50	\$3,412.50
402.	DENSE GRADED CRUSHED STONE FOR SUB-BASE	CY	10	\$115.00	\$1,150.00
404.5	RECLAIMED PAVEMENT BORROW MATERIAL	CY	380	\$40.00	\$15,200.00
443.	WATER FOR ROADWAY DUST CONTROL	MGL	35	\$150.00	\$5,250.00
450.23	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	TON	650	\$187.00	\$121,550.00
450.32	SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC - 19.0)	TON	810	\$168.25	\$136,282.50

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451.	HMA FOR PATCHING	TON	11	\$307.50	\$3,382.50
452.	ASPHALT EMULSION FOR TACK COAT	GAL	295	\$10.00	\$2,950.00
453.	HMA JOINT SEALANT	FT	140	\$1.75	\$245.00
476.	CEMENT CONCRETE PAVEMENT	SY	134	\$166.00	\$22,244.00
482.3	SAWCUTTING ASPHALT PAVEMENT	FT	140	\$20.00	\$2,800.00
482.4	SAWCUTTING PORTLAND CEMENT CONCRETE	FT	40	\$25.00	\$1,000.00
500.1	RE-POINTED EXISTING GRANITE PLANTER CURBING	FT	406	\$25.00	\$10,150.00
504.	GRANITE CURB TYPE VA4 - STRAIGHT	FT	75	\$80.00	\$6,000.00
509.	GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - STRAIGHT	FT	30	\$92.50	\$2,775.00
580.	CURB REMOVED AND RESET	FT	105	\$55.00	\$5,775.00
654.5	FENCE TYPE 1 4FT ORNAMENTAL	FT	1505	\$90.00	\$135,450.00
654.6	FENCE TYPE 2 5FT ORNAMENTAL	FT	655	\$100.00	\$65,500.00
654.7	6' CHAIN LINK FENCE	FT	240	\$175.00	\$42,000.00
655.	CEDAR RAIL FENCE	FT	50	\$150.00	\$7,500.00
656.	PROTECTIVE NETTING BALL FIELD	FT	130	\$100.00	\$13,000.00
669.	FENCE REMOVED AND STACKED	FT	2230	\$40.00	\$89,200.00
697.	SEDIMENTATION FENCE	FT	4270	\$12.00	\$51,240.00
697.1	SILT SACK	EA	14	\$275.00	\$3,850.00
698.1	GEOTEXTILE FABRIC FOR STABILIZATION	SY	84	\$11.63	\$976.50
698.2	GEOTEXTILE FABRIC FOR SUBSURFACE DRAINAGE	SY	1955	\$9.00	\$17,595.00
701.	CEMENT CONCRETE SIDEWALK	SY	210	\$97.50	\$20,475.00
704.	STONE DUST WALKS	TON	230	\$180.00	\$41,400.00
705.	FLAGSTONE PAVING -PEDESTRIAN	SY	228	\$450.00	\$102,600.00
705.2	FLAGSTONE WALK-VEHICULAR	SY	42	\$550.00	\$23,100.00
705.3	FLAGSTONE STEPS	SY	8	\$500.00	\$4,000.00
706.	BRICK UNIT PAVERS	SY	657	\$515.00	\$338,355.00
706.3	BRICK UNIT PAVER EDGING	LF	456	\$50.00	\$22,800.00
706.4	METAL PAVER RESTRAINT	LF	456	\$35.00	\$15,960.00
707.1	METAL BENCH WITH BACK	EA	8	\$5,500.00	\$44,000.00
707.11	METAL BENCH- BACKLESS	EA	2	\$5,000.00	\$10,000.00
707.12	METAL GLIDER BENCH	EA	6	\$6,500.00	\$39,000.00
707.13	BIKE REPAIR STATION	EA	1	\$4,500.00	\$4,500.00
707.16	TROLLEY SQUARE MONUMENT REMOVED AND RESET	EA	1	\$1,475.00	\$1,475.00
707.2	TRASH AND RECYCLING RECEPTACLE	EA	14	\$14,000.00	\$196,000.00
707.9	BICYCLE RACK	EA	5	\$1,500.00	\$7,500.00
708.1	METAL CHAIR	EA	8	\$3,600.00	\$28,800.00
708.2	CHAIR- MOVABLE	EA	20	\$1,000.00	\$20,000.00
708.3	TABLE - MOVABLE	EA	7	\$2,000.00	\$14,000.00
708.6	ADIRONDACK CHAIRS	EA	13	\$1,000.00	\$13,000.00
708.11	PICNIC TABLE	EA	2	\$4,500.00	\$9,000.00
708.81	LOG ELEMENT TYPE ONE-LOG STEPPERS 12-14"	LF	15	\$250.00	\$3,750.00
708.82	LOG ELEMENT TYPE ONE-LOG STEPPERS 14-18"	LF	15	\$300.00	\$4,500.00
708.91	LOG ELEMENT TYPE TWO - HORIZONTAL 5-10'	LF	80	\$300.00	\$24,000.00
708.92	LOG ELEMENT TYPE TWO - HORIZONTAL 10-20'	LF	18	\$350.00	\$6,300.00
708.101	LOG ELEMENT TYPE THREE - LOG PAVERS 9-12"	LF	3	\$120.00	\$360.00
708.102	LOG ELEMENT TYPE THREE - LOG PAVERS 13-16"	LF	3	\$300.00	\$900.00
708.103	LOG ELEMENT TYPE THREE - LOG PAVERS 17-20"	LF	3	\$350.00	\$1,050.00
708.104	LOG ELEMENT TYPE THREE - LOG PAVERS 21-24"	LF	3	\$600.00	\$1,800.00
708.111	LOG ELEMENT TYPE FOUR - BALANCE LOG 5-10'	LF	38	\$300.00	\$11,400.00
708.112	LOG ELEMENT TYPE FOUR - BALANCE LOG 10-20'	LF	36	\$600.00	\$21,600.00
708.12	WOOD STOOL	LF	20	\$75.00	\$1,500.00
708.13	UNDER LOGS	LF	96	\$325.00	\$31,200.00
708.14	WOOD LOG TUNNEL	LF	1	\$7,500.00	\$7,500.00
708.15	WOOD LOG STEP	LF	56	\$400.00	\$22,400.00
709.	GRANITE BOULDER TYPE 1	EA	66	\$1,500.00	\$99,000.00
709.1	GRANITE BOULDER TYPE 2	EA	4	\$313.00	\$1,252.00
709.2	GRANITE BOULDER TYPE 3	EA	2	\$7,500.00	\$15,000.00
709.3	GRANITE STEPPING BOULDER	EA	6	\$500.00	\$3,000.00
709.4	GRANITE JUMPING STONE	EA	27	\$250.00	\$6,750.00
709.5	REFURBISHED BRONZE PLAQUE AT SOMERVILLE LINE	EA	1	\$750.00	\$750.00
710.4	BOUND - PLAIN GRANITE	EA	10	\$860.00	\$8,600.00
714.2	BRICK AND GRANITE PARK IDENTIFICATION SIGN	EA	4	\$15,000.00	\$60,000.00

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714.4	EXISTING BRICK PIERS- REFURBISHED WITH PLAQUES	LS	1	\$60,000.00	\$60,000.00
716.	BOTTLE FILL STATION	EA	3	\$15,150.00	\$45,450.00
716.01	EMERGENCY CALL BOX	EA	2	\$5,000.00	\$10,000.00
716.02	EMERGENCY CALL BOX REMOVE AND STACK	EA	2	\$5,000.00	\$10,000.00
716.2	DOG WASTE STATION	EA	4	\$600.00	\$2,400.00
716.3	WAYFINDING AND INTERPRETATIVE SIGNAGE	EA	10	\$5,000.00	\$50,000.00
748.	MOBILIZATION	LS	1	\$303,000.00	\$303,000.00
751.43	SAND/COMPOST SOIL AMENDMENT	CY	1418	\$30.00	\$42,540.00
751.45	PLANTING SOIL	CY	530	\$115.00	\$60,950.00
751.46	DE-COMPACT AND INCORPORATION OF SOIL AMENDMENT	SY	6100	\$3.00	\$18,300.00
751.47	DE-COMPACT USING AIR SPADE OR MANUAL EQUIPMENT	SF	12312	\$5.00	\$61,560.00
765.1	SEEDED LAWN	SY	1310	\$3.00	\$3,930.00
767.31	PINE STRAW MULCH	CY	750	\$75.00	\$56,250.00
771.	IRRIGATION	LS	1	\$358,600.00	\$358,600.00
797.	BULBS	EA	2001	\$2.00	\$4,002.00
797.1	PERENNIALS, GRASSES AND GROUNDCOVER- 1 QUART	EA	2504	\$15.00	\$37,560.00
797.2	PERENNIALS, GRASSES AND GROUNDCOVER- 1 GALLON	EA	2395	\$25.00	\$59,875.00
797.3	PERENNIALS, GRASSES AND GROUNDCOVER- 2 GALLON	EA	96	\$40.00	\$3,840.00
797.4	PERENNIALS, GRASSES AND GROUNDCOVER- 3 GALLON	EA	447	\$85.00	\$37,995.00
797.5	SHRUB - 1 GALLON	EA	107	\$85.00	\$9,095.00
797.6	SHRUB - 2 GALLON	EA	262	\$115.00	\$30,130.00
797.7	SHRUB - 3 GALLON	EA	59	\$150.00	\$8,850.00
797.8	DECIDUOUS TREE- BAREROOT	SF	20	\$300.00	\$6,000.00
797.9	DECIDUOUS TREE -1" CALIPER	SF	26	\$500.00	\$13,000.00
797.11	DECIDUOUS TREE -2-2.5" CALIPER	EA	19	\$1,500.00	\$28,500.00
797.12	ORNAMENTAL AND UNDERSTORYTREE- 6-8' HT	EA	20	\$850.00	\$17,000.00
797.13	ORNAMENTAL AND UNDERSTORY TREE-8-10' HT	EA	42	\$800.00	\$33,600.00
797.14	EVERGREEN TREE- 8-10' HT	EA	33	\$1,000.00	\$33,000.00
804.2	2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL)	FT	820	\$60.00	\$49,200.00
804.4	4 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)	FT	3490	\$90.00	\$314,100.00
806.2	2 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL	FT	80	\$80.00	\$6,400.00
811.32	PULL BOX 12 X 24 INCHES	EA	48	\$2,000.00	\$96,000.00
811.39	ELECTRIC HANDHOLE REMOVED AND STACKED	EA	45	\$300.00	\$13,500.00
812.1	LIGHT STANDARD FOUNDATION SD3.010	EA	54	\$3,000.00	\$162,000.00
812.2	LIGHTING LOAD CENTER FOUNDATION	EA	1	\$4,750.00	\$4,750.00
812.21	CALL BOX FOUNDATION	EA	2	\$1,500.00	\$3,000.00
813.3	WIRE TYPE 7 NO. 10 GENERAL PURPOSE	FT	13640	\$8.00	\$109,120.00
813.31	WIRE TYPE 7 NO. 8 GENERAL PURPOSE	FT	8600	\$3.00	\$25,800.00
813.33	WIRE TYPE 7 NO. 4 GENERAL PURPOSE	FT	13640	\$3.00	\$40,920.00
813.34	WIRE TYPE 7 NO. 2 GENERAL PURPOSE	FT	620	\$2.00	\$1,240.00
813.71	GROUND ROD 8 FEET LONG	EA	50	\$275.00	\$13,750.00
820.1	HIGHWAY LIGHTING - ROADWAY	EA	1	\$8,000.00	\$8,000.00
820.12	HIGHWAY LIGHTING - AREA	EA	46	\$8,000.00	\$368,000.00
820.14	HIGHWAY LIGHTING - FESTOON	EA	7	\$8,000.00	\$56,000.00
823.24	CATENARY FESTOON LIGHTS	FT	178	\$50.00	\$8,900.00
823.6	LIGHTING CONTROL CENTER	EA	2	\$5,000.00	\$10,000.00
823.71	HIGHWAY LIGHTING POLE AND LUMINAIRE REMOVED AND STACKED	EA	45	\$1,200.00	\$54,000.00
850.	TRAFFIC AND PEDESTRIAN MANAGEMENT	LS	1	\$50,000.00	\$50,000.00
850.41	ROADWAY FLAGGER	HR	240	\$75.00	\$18,000.00
851.1	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	DAY	60	\$200.00	\$12,000.00
852.	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	SF	90	\$30.00	\$2,700.00
852.11	TEMPORARY PEDESTRIAN BARRICADE	FT	500	\$60.00	\$30,000.00
852.12	TEMPORARY PEDESTRIAN CURB RAMP	EA	6	\$500.00	\$3,000.00
853.215	WORKZONE BARRIER	FT	450	\$100.00	\$45,000.00
856.12	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	60	\$30.00	\$1,800.00
859.	REFLECTORIZED DRUM	DAY	60	\$0.50	\$30.00
864.	PAVEMENT ARROW REFLECTORIZED WHITE (PAINTED)	SF	40	\$16.00	\$640.00
866.104	4 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	FT	230	\$1.75	\$402.50
866.212	12 INCH REFLECTORIZED WHITE LINE (POLYUREA) (RECESSED)	FT	365	\$12.50	\$4,562.50
867.106	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	FT	3325	\$1.65	\$5,486.25
874.12	SIGN WITH POST	EA	30	\$225.00	\$6,750.00

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874.41	TRAFFIC SIGN REMOVED AND DISCARDED	EA	10	\$60.00	\$600.00
986.	MODIFIED ROCKFILL	TON	247	\$100.00	\$24,700.00
				Construction Subtotal:	\$6,033,148.25
				15 % Contingency:	\$904,972.24
				5 % Police Allowance	\$301,657.41
				1 % Art Allowance	\$60,331.48
				Project Total Cost:	\$7,239,777.90
				Say:	\$7,240,000.00