

Exhibit E

Version: June 2022

**CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION
ENGINEERS ESTIMATE FOR 2020 STANDARD CONSTRUCTION SPECIFICATIONS
BERRYDALE PARK LID 7/21/2022 J. WILSON**

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF SE 89TH AVE, SE TAYLOR ST, AND SE 92ND AVE AS PART OF BERRYDALE PARK LID

BID ITEMS

BID ITEM NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	TOTAL QUANTITY	UNIT PRICES	TOTAL AMOUNT
1	MOBILIZATION	0210	LS	1	\$70,621.28	\$70,621.28
3	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	0221	LS	1	\$49,434.89	\$49,434.89
39	EROSION CONTROL	0280	LS	1	\$7,062.13	\$7,062.13
44	INLET PROTECTION, TYPE 3	0280	EACH	10	\$102.72	\$1,027.20
45	POLLUTION CONTROL PLAN	0290	LS	1	\$1,642.67	\$1,642.67
51	CONSTRUCTION SURVEY WORK	0305	LS	1	\$10,593.19	\$10,593.19
61	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	0310	LS	1	\$28,248.51	\$28,248.51
63	CLEARING AND GRUBBING	0320	LS	1	\$10,593.19	\$10,593.19
66	GENERAL EXCAVATION	0330	CUYD	492.9	\$68.17	\$33,600.99
68	12 INCH SUBGRADE STABILIZATION	0331	SQYD	248.1	\$57.20	\$14,191.32
72	SUBGRADE GEOTEXTILE	0350	SQYD	1,654.0	\$1.40	\$2,315.60
81	POT HOLE EXCAVATION	0405	EACH	5	\$520.00	\$2,600.00
90	12 INCH PIPE, PVC ASTM D3034 SDR 35, BEDDING TYPE: D, COMPLETE	0445	FOOT	175.0	\$185.00	\$32,375.00
98	CONCRETE MAINTENANCE HOLES, SEDIMENTATION	0470	EACH	1	\$11,890.00	\$11,890.00
99	SUMP MAINTENANCE HOLE, 30 FT DEPTH	0470	EACH	1	\$15,525.00	\$15,525.00
100	SUMP CAPACITY TEST	0470	EACH	1	\$2,400.00	\$2,400.00
102	CONCRETE INLETS, TYPE CG-2	0470	EACH	6	\$4,208.00	\$25,248.00
120	MINOR ADJUSTMENT OF MAINTENANCE HOLES	0490	EACH	4	\$842.67	\$3,370.68
143	AGGREGATE BASE, 8 INCHES THICK	0640	SQYD	1,554.0	\$23.67	\$36,783.18
148	LEVEL 3, 1/2 INCH ACP MIXTURE WITH PG 70-22 ASPHALT	0744	TON	278.00	\$181.00	\$50,318.00
158	22 FOOT ASPHALT SPEED BUMPS	0749	EACH	1	\$3,070.00	\$3,070.00
164	CONCRETE CURBS, CURB AND GUTTER	0759	FOOT	779.9	\$85.67	\$66,814.03
171	CONCRETE WALKS	0759	SQFT	7,350.0	\$11.50	\$84,525.00
172	MONOLITHIC CURB AND SIDEWALKS	0759	SQFT	1,519.0	\$24.71	\$37,534.49
176	CONCRETE DRIVEWAY CONNECTIONS	0759	SQFT	1,950.0	\$19.50	\$38,025.00
179	EXTRA FOR NEW CURB RAMPS	0759	EACH	15	\$505.00	\$7,575.00
181	TRUNCATED DOMES ON EXISTING SURFACES	0759	SQFT	150.0	\$58.68	\$8,802.00
200	MONO-DIRECTIONAL WHITE TYPE I MARKERS	0855	EACH	3	\$7.00	\$21.00
204	CURB MARKINGS - PAINT	0861	FOOT	88.0	\$11.00	\$968.00
218	REMOVE AND REINSTALL EXISTING SIGNS	0905	LS*	6	\$161.60	\$969.60
219	SIGN SUPPORT FOOTINGS, BREAKAWAY	0920	EACH	11	\$225.90	\$2,484.90
221	PIPE SIGN SUPPORTS	0930	EACH	11	\$209.40	\$2,303.40
226	SIGNS, STANDARD SHEETING, SHEET ALUMINUM	0940	SQFT	35.0	\$24.00	\$840.00
241	LAWN SEEDING	1030	SQYD	370.0	\$10.92	\$4,040.40
242	TOPSOIL	1040	CUYD	60.0	\$90.19	\$5,411.40
243	SOIL CONDITIONER	1040	CUYD	15.0	\$60.00	\$900.00
245	DECIDUOUS TREES, 2-1/2 INCH CALIPER	1040	EACH	13	\$1,100.00	\$14,300.00
257	BARK MULCH	1040	CUYD	13.0	\$81.17	\$1,055.21
259	ROOT BARRIER	1040	FOOT	300.0	\$10.50	\$3,150.00
263	TYPE CL-4R CHAIN LINK FENCE WITH VINYL CLAD FABRIC	1050	FOOT	125.0	\$48.66	\$6,082.50
272	IRRIGATION SYSTEM	1120	LS	1	\$7,500.00	\$7,500.00
TOTAL BID ITEMS						\$706,212.76

ANTICIPATED ITEMS

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BID ITEM NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	TOTAL QUANTITY	UNIT PRICES	TOTAL AMOUNT
ANTICIPATED ITEM NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
14	ASPHALT CEMENT ESCALATION	0	LS	1	\$5,000.00	\$5,000.00
15	FUEL ESCALATION	0	LS	1	\$5,000.00	\$5,000.00
19	BOLI FEE PAYMENT	0	LS	1	\$706.21	\$706.21
20	CONTRACT CONTINGENCY	0	LS	1	\$70,621.28	\$70,621.28
TOTAL ANTICIPATED ITEMS						\$81,327.49

SCHEDULE SUMMARY

BID ITEMS	\$706,212.76
CONSTRUCTION CONTINGENCY	5% of Bid Items* <u>\$35,311.00</u>
SUBTOTAL	\$741,523.76

ANTICIPATED ITEMS \$81,327.49

TOTAL CONSTRUCTION **\$822,851.25**

PROJECT MANAGEMENT	5% of Bid Items	\$35,311.00
DESIGN ENGINEERING	21% of Bid Items	\$171,000.00
CONSTRUCTION MANAGEMENT	10% of Bid Items	<u>\$70,621.00</u>
SUBTOTAL		\$276,932.00

PROJECT MANAGEMENT OVERHEAD	74.97% of PE	\$26,472.66
DESIGN ENGINEERING OVERHEAD	74.97% of DE	\$38,984.40
CONSTRUCTION MANAGEMENT OVERHEAD	74.97% of CM	<u>\$52,944.56</u>
SUBTOTAL		\$118,401.62

TOTAL PROJECT ENGINEERING & MANAGEMENT **\$395,333.62**

RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES	\$0.00
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION	\$0.00
RIGHT-OF-WAY CONTINGENCY	30% of L&I&D <u>\$0.00</u>
TOTAL PROJECT RIGHT-OF-WAY	\$0.00

	Years	Inflation	
INFLATION RATE ON CONSTRUCTION CONTRACT	1	5.1% of Construction	\$41,965.00
INFLATION RATE ON PERSONNEL COSTS	1	5.0% of Eng. & Mgmt. of Const, Eng. &	\$19,767.00
ALLOWANCE FOR DESIGN REFINEMENT		5% Mgmt., and Inflation	<u>\$63,995.84</u>
TOTAL INFLATION AND ALLOWANCE FOR DESIGN REFINEMENT			\$125,727.84

PROJECT ESTIMATE **\$1,343,912.71**