

EXHIBIT E

CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION
PRELIMINARY ENGINEER'S ESTIMATE
SE 102nd Avenue and Woodstock Blvd. LID

Date Prepared: October 25, 2017
Date Revised: June 20, 2018
TOTAL PROJECT

By: Rick Fensler
By: Ruthanne Bennett and Andrew Aebi
WITH PART 1 & 3 ROADWAYS AT 32 FT.

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF SE Woodstock FROM 101st to 102nd AND SE 102nd FROM Woodstock TO Foster Rd
VALUES IN BLUE ARE PERCENT OF CONTRACT.

BID ITEMS

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	LS	1.00	\$41,658.37	\$41,658.37
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	LS	1.00	\$8,331.67	\$8,331.67
3	TEMPORARY SIGNS	SQFT	135.00	\$20.00	\$2,700.00
4	TEMPORARY BARRICADES, TYPE III	EACH	5.00	\$150.00	\$750.00
5	TEMPORARY PLASTIC DRUMS	EACH	50.00	\$52.00	\$2,600.00
6	FLAGGERS	HOUR	140.00	\$48.50	\$6,790.00
7	EROSION CONTROL	LS	1.00	\$4,165.83	\$4,165.83
8	CONSTRUCTION ENTRANCES	EACH	3.00	\$1,890.00	\$5,670.00
9	SEDIMENT FENCE, UNSUPPORTED	FOOT	750.00	\$2.50	\$1,875.00
10	INLET PROTECTION	EACH	8.00	\$88.00	\$704.00
11	POLLUTION CONTROL PLAN	LS	1.00	\$416.59	\$416.59
12	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LS	1.00	\$8,331.67	\$8,331.67
13	CLEARING AND GRUBBING	LS	1.00	\$10,622.88	\$10,622.88
14	GENERAL EXCAVATION	CUYD	962.00	\$49.00	\$47,138.00
15	12 INCH SUBGRADE STABILIZATION	SQYD	244.00	\$30.17	\$7,361.48
16	SUBGRADE GEOTEXTILE	SQYD	2,441.00	\$1.25	\$3,051.25
17	12 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	FOOT	85.00	\$120.00	\$10,200.00
18	CONCRETE MANHOLES, SEDIMENTATION	EACH	1.00	\$5,610.00	\$5,610.00
19	CONCRETE MANHOLES, SUMP	EACH	1.00	\$13,000.00	\$13,000.00
20	SUMP CAPACITY TEST	EACH	1.00	\$1,690.00	\$1,690.00
21	CONCRETE INLETS, TYPE G-2	EACH	3.00	\$1,800.00	\$5,400.00
22	ADJUSTING BOXES	EACH	2.00	\$217.00	\$434.00
23	ADJUSTING INLETS	EACH	4.00	\$664.00	\$2,656.00
24	MINOR ADJUSTMENT OF MANHOLES	EACH	4.00	\$642.00	\$2,568.00
25	AGGREGATE BASE, 8 INCH THICK	SQYD	2,441.00	\$12.30	\$30,024.30
26	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	TON	712.00	\$89.50	\$63,724.00
27	ASPHALT CONNECTIONS	SQFT	169.00	\$7.30	\$1,233.70
28	CONCRETE CURBS, STANDARD CURB	FOOT	750.00	\$25.50	\$19,125.00
29	CONCRETE DRIVEWAYS	SQFT	784.00	\$8.40	\$6,585.60
30	CONCRETE WALKS	SQFT	273.00	\$7.40	\$2,020.20
31	MONOLITHIC CURB AND SIDEWALKS	SQFT	6,138.00	\$18.00	\$110,484.00
32	SIGN SUPPORT FOOTINGS, BREAKAWAY	LS*	12.00	\$182.00	\$2,184.00
33	PIPE SIGN SUPPORTS	LS*	12.00	\$180.00	\$2,160.00
34	TYPE "W12" SIGNS IN PLACE	SQFT	12.00	\$25.60	\$307.20
35	LIGHTING SERVICE PANEL	LS*	1.00	\$2,000.00	\$2,000.00
36	POLE FOUNDATIONS	LS*	3.00	\$2,500.00	\$7,500.00
37	LIGHTING POLES, FIXED BASE	LS*	3.00	\$6,890.00	\$20,670.00
38	LIGHTING POLE ARMS	LS*	3.00	\$338.00	\$1,014.00
39	LUMINAIRES, LAMPS AND BALLASTS	LS*	3.00	\$1,000.00	\$3,000.00
40	SWITCHING, CONDUIT AND WIRING	LS*	500.00	\$25.00	\$12,500.00
41	TOPSOIL	CUYD	120.00	\$60.00	\$7,200.00
42	BARK MULCH	CUYD	76.00	\$55.60	\$4,225.60
43	ROOT BARRIER	FOOT	36.00	\$11.90	\$428.40
TOTAL BID ITEMS					\$490,110.74

EXHIBIT E

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
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ANTICIPATED ITEMS

NO.	ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	DECIDUOUS TREES, 2-1/2 INCH CALIPER	EACH	28.00	\$1,350.00	\$37,800.00
2	BOLI FEE PAYMENT	LS	1.00	\$490.11	\$490.11
3	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)	LS	1.00	\$49,011.07	\$49,011.07

TOTAL ANTICIPATED ITEMS	\$87,301.18
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SCHEDULE SUMMARY

BID ITEMS		\$490,110.74
CONSTRUCTION CONTINGENCY	5.0% of Bid Items*	\$24,506.00
SUBTOTAL		\$514,616.74

ANTICIPATED ITEMS		\$87,301.18
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TOTAL CONSTRUCTION		\$601,917.92
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PROJECT MANAGEMENT	4.6% of Bid Items	\$22,430.53
DESIGN ENGINEERING	22.9% of Bid Items	\$112,153.00
CONSTRUCTION MANAGEMENT	13.7% of Bid Items	\$67,292.00
SUBTOTAL		\$201,875.53

PROJECT ENGINEERING & MANAGEMENT OVERHEAD	76.07% of PM, Eng, and CM	\$153,566.71
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TOTAL PROJECT ENGINEERING & MANAGEMENT		\$355,442.24
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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 Land, Improve, and Damages	\$0.00
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TOTAL PROJECT RIGHT-OF-WAY		\$0.00
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INFLATION RATE ON CONTRACT	Years	Inflation		
	3	4.5% of Construction		\$84,970.00
INFLATION RATE ON PERSONNEL	3	2.0% of Eng & Mgmt		\$21,756.00
ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE		13.4% of Const, Eng & Mgmt, and Inflation		\$147,405.56

TOTAL PROJECT CONTINGENCY		\$254,131.56
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TOTAL PROJECT ESTIMATE		\$1,211,491.72
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