EXHIBIT E

CITY OF PORTLAND, OREGON **BUREAU OF TRANSPORTATION** PRELIMINARY ENGINEER'S ESTIMATE SW Vermont_45th_California LID

PRELIMINARY ENGINEER'S ESTIMATE FOR THE addition of curb, sidewalk, and stormwater facilities along SW Vermont St., SW 45th Ave., and SW California St.

BID ITEMS

		TOTAL						TOTAL
NO.	ITEMS OF WORK AND MATERIALS	QUANTITY	UNIT	UNIT PRICE	SW 45th Avenue	SW California St.	SW Vermont St.	AMOUNT
1	MOBILIZATION	1.00	LS	\$16,812.58	\$5,864,48	\$7,298.73	\$3,649.37	\$16,812.58
	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	1.00	LS	\$8,406,29	\$2,932.24	\$3,649,37	\$1,824.68	\$8,406.29
	TEMPORARY SIGNS	200.00	SQFT	\$23.41	\$2,341.00	\$1,560.67	\$780.33	\$4,682.00
5	TEMPORARY BARRICADES, TYPE III	20.00	EACH	\$199.00	\$1,990.00	\$1,326.67	\$663.33	\$3,980.00
	TEMPORARY PLASTIC DRUMS	50.00	EACH	\$70.24	\$1,756.00	\$1,170.67	\$585.33	\$3,512.00
19	FLAGGERS	500.00	HOUR	\$44.48	\$15,123.20	\$4,744.53	\$2,372.27	\$22,240.00
22	EROSION CONTROL	1.00	LS	\$3,152.36	\$1,099.59	\$1,368.51	\$684.26	\$3,152.36
27	SEDIMENT FENCE, UNSUPPORTED	300.00	FOOT	\$3.51	\$1,053.00	\$0.00	\$0.00	\$1,053.00
	INLET PROTECTION	4.00	EACH	\$105.35	\$210.70	\$140.47	\$70.23	\$421.40
29	POLLUTION CONTROL PLAN	1.00	LS	\$1,050.79	\$366.53	\$456.17	\$228.09	\$1,050.79
	REMOVAL OF STRUCTURES & OBSTRUCTIONS	1.00	LS	\$2,080.77	\$725.80	\$903.31	\$451.66	\$2,080.77
-	CLEARING AND GRUBBING	1.00	LS	\$2,101.57	\$733.06	\$912.34	\$456.17	\$2,101.57
	TREE ROOT REMOVAL	3.00		\$180.00	\$360.00	\$120.00	\$60.00	\$540.00
	TREE TRIMMING	4.00	HOUR	\$350.00	\$700.00	\$466.67	\$233.33	\$1,400.00
	GENERAL EXCAVATION	168.00	CUYD	\$24.58	\$1,671.44	\$1,638.67	\$819.33	\$4,129.44
	12 INCH SUBGRADE STABILIZATION	6.00		\$15.22	\$91.32	\$0.00	\$0.00	\$91.32
	SUBGRADE GEOTEXTILE	56.00		\$1.76	\$86.24	\$8.21	\$4.11	\$98.56
	OUTFALLS, RIPRAP	2.00		\$6,500.00	\$0.00	\$8,666.67	\$4,333.33	\$13,000.00
	STORMWATER PLANTERS	572.00		\$20.00	\$4,000.00	\$4,960.00	\$2,480.00	\$11,440.00
	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	450.00		\$88.97	\$0.00	\$26,691.00	\$13,345.50	\$40,036.50
	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	2.00		\$3,160.62	\$0.00	\$4,214.16	\$2,107.08	\$6,321.24
	CONCRETE INLETS, TYPE G-2	3.00	EACH	\$1,521.78	\$1,521.78	\$2,029.04	\$1,014.52	\$4,565.34
	CONCRETE INLETS, TYPE METAL	3.00	EACH	\$550.00	\$1,100.00	\$366.67	\$183.33	\$1,650.00
	AGGREGATE BASE	106.00	TON	\$29.27	\$1,404.96	\$1,131.77	\$565.89	\$3,102.62
	LEVEL 2, 1/2 INCH DENSE, MHMAC MIXTURE	16.00	TON	\$85.81	\$1,201.34	\$114.41	\$57.21	\$1,372.96
	14 INCH ASPHALT CONCRETE PAVEMENT REPAIR	33.00		\$32.90	\$1,085.70	\$0.00	\$0.00	\$1,085.70
	EXTRA FOR ASPHALT APPROACHES	2.00	EACH	\$567.74	\$1,135.48	\$0.00	\$0.00	\$1,135.48
	CONCRETE CURBS, STANDARD CURB	128.00	FOOT	\$18.73	\$2,397.44	\$0.00	\$0.00	\$2,397.44
	CONCRETE CURBS, THICKENED CURB AND GUTTER	143.00	FOOT	\$30.00	\$1,500.00	\$1,860.00	\$930.00	\$4,290.00
10,000,000	CONCRETE DRIVEWAYS	720.00	SQFT	\$7.02	\$0.00	\$3,369.60	\$1,684.80	\$5,054.40
	CONCRETE BRIVEWATS CONCRETE WALKS	5,306.00	SQFT	\$5.97	\$9,707.22	\$14,646.40	\$7,323.20	\$31,676.82
	MONOLITHIC CURB AND SIDEWALKS	970.00	SQFT	\$9.66	\$4,366.32	\$3,335.92	\$1,667.96	\$9,370.20
	PAVEMENT LINE REMOVAL	1,113.00	FOOT	\$0.62	\$690.06	\$0.00	\$0.00	\$690.06
	PAVEMENT LEGEND REMOVAL	1,113.00	EACH	\$59.12	\$59.12	\$0.00	\$0.00	\$59.12
	THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED	1.113.00	FOOT	\$1.11	\$1,235.43	\$0.00	\$0.00	\$1,235.43
	PAVEMENT LEGEND, TYPE B: ARROWS	1,113.00	EACH	\$243.48	\$243.48	\$0.00	\$0.00	\$243.48
	PAVEMENT LEGEND, TYPE B. ARROWS PAVEMENT LEGEND, TYPE B: BICYCLE LANE SYMBOLS	2.00	EACH	\$250.51	\$501.02	\$0.00	\$0.00	\$501.02
	REMOVE EXISTING SIGNS	5.00	LS*	\$128.77	\$643.85	\$0.00	\$0.00	\$643.85
	SIGN SUPPORT FOOTINGS, BREAKAWAY	9.00	LS*	\$102.90	\$926.10	\$0.00	\$0.00	\$926.10
	PIPE SIGN SUPPORTS	9.00	LS*	\$102.90	\$1,053.00	\$0.00	\$0.00	\$1.053.00
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	TYPE "G" SIGNS IN PLACE	8.00	SQFT	\$32.78	\$262.24	\$0.00	\$0.00	\$262.24
	TYPE "W1" SIGNS IN PLACE	8.00	SQFT	\$24.58	\$196.64	\$0.00	\$0.00	\$196.64
	LAWN SEEDING	252.00	SQYD	\$5.27	\$1,011.84	\$210.80	\$105.40	\$1,328.04
	TOPSOIL	42.00	CUYD	\$32.66	\$1,045.12	\$217.73	\$108.87	\$1,371.72
	DECIDUOUS TREES, 2-1/2 INCH CALIPER	19.00	EACH	\$741.39	\$6,672.51	\$4,942.60	\$2,471.30	\$14,086.41
244	ADDITIONAL ESTABLISHMENT PERIOD	1.00	YEAR*	\$6,832.97	\$3,236.67	\$2,397.53	\$1,198.77	\$6,832.97
	* Unit Price Shown is on Each or Foot Basis							
TO=	AL BID ITEMS				\$84,301.92	\$104,919.29	\$52,459.65	\$241,680.86

ANTICIPATED ITEMS

	TOTAL						TOTAL
NO. ITEMS OF WORK AND MATERIALS	QUANTITY	UNIT	UNIT PRICE				AMOUNT
5 STREET LIGHTING - INSTALL ARMS AND LUMINAIRES	4.00	EACH	\$550.00	\$0.00	\$1,466.67	\$733.33	\$2,200.00
7 STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	572.00	SQFT	\$15.00	\$3,000.00	\$3,720.00	\$1,860.00	\$8,580.00
13 BOLI FEE PAYMENT	1.00	LS	\$250.00	\$250.00	\$0.00	\$0.00	\$250.00
14 CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER	1.00	LS	\$24,168.09	\$8,430.19	\$10,491.93	\$5,245.96	\$24,168.09
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FOTAL ANTICIPATED ITEMS				\$11,680.19	\$15,678.60	\$7,839.29	\$35,198.09

SCHEDUL	F	SU	MM	ARY

BID ITEMS CONSTRUCTION CONTINGENCY SUBTOTAL	5% of Bid Items*	\$84,301.92 \$4,215.08 \$88,517.00	\$104,919.29 \$5,245.95 \$110,165.24	\$52,459.65 \$2,622.97 \$55,082.62	\$241,680.86 \$12,084.00 \$253,764.86
ANTICIPATED ITEMS		\$11,680.19	\$15,678.60	\$7,839.29	\$35,198.09
TOTAL CONSTRUCTION		\$100,197.19	\$125,843.84	\$62,921.92	\$288,962.95
PROJECT MANAGEMENT DESIGN ENGINEERING CONSTRUCTION MANAGEMENT	5% of Bid Items 25% of Bid Items 20% of Bid Items	\$4,190.11 \$20,950.49 \$16,760.39	\$5,262.62 \$26,313.01 \$21,050.41	\$2,631.31 \$13,156.50 \$10,525.20	\$12,084.04 \$60,420.00 \$48,336.00
SUBTOTAL		\$41,900.99	\$52,626.04	\$26,313.02	\$120,840.04

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NO. ITEMS OF WORK AND MATERIALS	QUANTITY	UNIT	UNIT PRICE	SW 45th Avenue	CIM California Ct	CM Vormant Ct	AMOUNT
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PROJECT ENGINEERING & MANAGEMENT OVERHEAD		73.78%	of PM, Eng, and CM	\$30,914.55	\$38,827.49	\$19,413.74	\$89,155.78

TOTAL PROJECT ENGINEERING & MANAGEMENT				\$72.815.54	\$91,453.53	\$45,726.76	\$209,995.83
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RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES				\$0.00	\$0.00	\$0.00	\$0.00
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION				\$0.00	\$0.00	\$0.00	\$0.00
MOTITION -WAT ATT MODAL, THEE MODITATION			of Land, Improve, and	φο.σο	00.00	Ψ0.00	Ψ0.00
THE			Damages	00.00	00.00	***	00.00
RIGHT-OF-WAY CONTINGENCY		30%	Danages	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL PROJECT RIGHT-OF-WAY				\$0.00	\$0.00	\$0.00	\$0.00
	Years	Inflation					
INFLATION RATE ON CONTRACT	2	4.5%	of Construction	\$9,220.71	\$11,580.86	\$5,790.43	\$26,592.00
INFLATION RATE ON PERSONNEL	2	2.0%	of Eng & Mgmt	\$2,941.81	\$3,694.80	\$1,847,40	\$8,484.00
ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE			of Const, Eng & Mgmt, and		\$46,514.60	\$23,257.30	\$106,806.95
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TOTAL PROJECT CONTINGENCY				\$49,197.57	\$61,790.26	\$30,895.13	\$141,882.95
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TOTAL PROJECT ESTIMATE				\$222,210.30	\$279,087.62	\$139,543.81	\$640,841.73