## CITY OF PORTLAND, OREGON BUREAU OF TRANSPORTATION IN-LIEU ENGINEER'S ESTIMATE NW 20th Avenue LID

IN-LIEU ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF 20TH AVE: UPSHUR ST.TO RALEIGH ST. AND NW 23RD & VAUGHN & U.S. 30 INTERSECTION

## ###### BID ITEMS ######

		TOTAL			
NO.	ITEMS OF WORK AND MATERIALS	QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	0.82	LS	\$401,250.00	\$327,741.22
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	0.82	LS	\$125,000.00	\$102,099.33
	TEMPORARY SIGNS	2,106.42	SQFT	\$20.00	\$42,128.40
4	TEMPORARY BARRICADES, TYPE II	6.00	EACH	\$50.00	\$300.00
5	TEMPORARY BARRICADES, TYPE III	43.00	EACH	\$95.00	\$4,085.00
6	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	0.00	FOOT	\$18.00	\$0.00
7	TEMPORARY IMPACT ATTENUATOR	0.00	EACH	\$2,500.00	\$0.00
	TEMPORARY PEDESTRIAN CHANNELIZING DEVICES	1,214.00		\$20.00	
9	TEMPORARY PLASTIC DRUMS	157.00	EACH	\$50.00	\$7,850.00
10	STRIPING & STRIPE REMOVAL MOBILIZATION	2.00	EACH	\$1,400.00	\$2,800.00
	SEQUENTIAL ARROW SIGNS	1.00		\$4,850.00	
12	PORTABLE CHANGEABLE MESSAGE SIGNS	5.00		\$9,000.00	
	FLAGGERS	584.64		\$50.00	\$29,232.03
14	TRAFFIC CONTROL SUPERVISOR	0.00	HOUR	\$60.00	\$0.00
15	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	54.84	FOOT	\$5.00	\$274.20
16	EROSION CONTROL	0.82	LS	\$49,500.00	\$40,431.33
17	INLET PROTECTION	24.00	EACH	\$75.00	\$1,800.00
	POLLUTION CONTROL PLAN	0.82	LS	\$5,000.00	
19	CONTAMINATED MEDIA DISPOSAL	224.00	CUYD	\$150.00	\$33,600.00
	HASP/CMDP WORKPLANS	0.82	LS	\$10,000.00	
21	REMOVAL OF RAILROAD TRACK AND TIES	66.00	FOOT	\$125.00	\$8,250.00
22	REMOVE AND REINSTALL HORSE RINGS	0.00	EACH	\$750.00	
	REMOVAL OF STRUCTURES & OBSTRUCTIONS	0.95	LS	\$262,746.15	
	REMOVAL OF FENCES	480.00	FOOT	\$1.00	\$480.00
25	CLEARING AND GRUBBING	0.82	LS	\$25,600.00	
	GENERAL EXCAVATION	6,164.30		\$28.00	. ,
27	12 INCH SUBGRADE STABILIZATION	616.10	SQYD	\$35.00	\$21,563.50
28	SUBGRADE GEOTEXTILE	4,813.60	SQYD	\$1.00	\$4,813.60
	VIDEO INSPECTION OF SEWERS, MAINLINE	0.00		\$5.00	\$0.00
30	VIDEO INSPECTION OF SEWERS, LATERALS	0.00	FOOT	\$600.00	\$0.00
	POTHOLE EXCAVATION	2.00		\$1,000.00	
	STORMWATER PLANTERS	0.00		\$80.00	\$0.00
	6 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	0.00		\$68.00	•
	10 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE		FOOT	\$72.00	
	12 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE		FOOT	\$89.50	
	15 INCH PIPE, PVC ASTM D3034 SDR35, BEDDING TYPE: D, COMPLETE	0.00		\$100.00	
	CONCRETE CLOSURE COLLAR	3.00		\$5,000.00	
	18 INCH PIPE, RCP ASTM C76 CLASS IV, BEDDING TYPE: B, COMPLETE	0.00	FOOT	\$135.00	\$0.00
	24 INCH PIPE, RCP ASTM C76 CLASS IV, BEDDING TYPE: B, COMPLETE	0.00		\$198.00	\$0.00
	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	0.00		\$6,580.00	
	CONCRETE MANHOLES, 48 INCH, DEEPER THAN 8 FT	0.00		\$550.00	•
	CONCRETE MANHOLES, 60 INCH, 0-8 FT DEPTH	0.00		\$8,550.00	
	CONCRETE MANHOLES, 60 INCH, DEEPER THAN 8 FT	0.00		\$750.00	
	CONCRETE INLETS, TYPE CG-2	12.00		\$1,910.00	
	CONCRETE INLETS, TYPE G-2		EACH	\$1,750.00	. ,
	CONCRETE INLETS, TYPE METAL, MODIFIED		EACH	\$450.00	
	CONCRETE INLETS, TYPE CHANNEL & GRATE		EACH	\$4,400.00	
	CATCH BASINS, METAL SUMP		EACH	\$1,580.00	
	DRAINAGE CURBS		FOOT	\$24.00	
	ADJUSTING BOXES		EACH	\$450.00	
	CONNECTION TO EXISTING STRUCTURES		EACH	\$3,580.00	
	MINOR ADJUSTMENT OF MANHOLES		EACH	\$1,500.00	
	DIVERSION OF FLOW		EACH	\$3,500.00	
	RECONSTRUCT MANHOLE BASE		EACH	\$7,500.00	
	RODENT CONTROL	0.00		\$1,500.00	
	TRENCH RESURFACING		SQYD	\$115.00	
	AGGREGATE BASE, 6 INCH THICK	4,813.60		\$10.00	
58	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	2,498.25	TON	\$84.00	\$209,853.00

## 190340 EXHIBIT C

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NO. ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUN	
59 9 INCH ASPHALT CONCRETE PAVEMENT REPAIR, Temporary Driveway & parking	240.00		\$50.00		
60 17 INCH ASPHALT CONCRETE PAVEMENT REPAIR	473.44		\$132.00		
61 16 INCH ASPHALT CONCRETE PAVEMENT REPAIR, US 30 ramp	978.36		\$142.00		
62 EXTRA FOR ASPHALT APPROACHES	0.00	EACH	\$1,000.00		
63 CONCRETE CURBS, CURB AND GUTTER	222.00	FOOT	\$40.00	\$8,880	
64 CONCRETE CURBS, STANDARD CURB	348.80	FOOT	\$29.00	\$10,115	
65 CONCRETE CURBS, THICKENED CURB AND GUTTER	78.70		\$55.00		
66 CONCRETE ISLANDS	1,600.65		\$29.00		
67 MONOLITHIC CURB AND DRIVEWAYS	639.05		\$16.00		
68 MONOLITHIC CURB AND GUTTER DRIVEWAYS	1,324.90		\$20.00	. ,	
69 CONCRETE WALKS	8,221.30		\$10.00		
70 MONOLITHIC CURB AND SIDEWALKS	3,221.80		\$28.00		
71 MONOLITHIC CURB GUTTER AND SIDEWALKS	32,125.23		\$19.50		
72 DETECTABLE WARNING SURFACE	16.00		\$120.00		
73 CONCRETE BARRIER	230.00		\$28.50		
74 PAVEMENT LINE REMOVAL	8,146.00		\$0.85		
75 PAVEMENT LEGEND REMOVAL	21.00		\$105.00	. ,	
76 PAVEMENT BAR REMOVAL	331.30		\$3.75		
77 MONO-DIRECTIONAL WHITE TYPE I MARKERS  78 60" WHITE ROUND TOP SURFACE MOUNTED TUBULAR MARKERS	65.00		\$6.50		
	0.00		\$150.00		
79 CURB MARKINGS - PAINT	249.00 12,259.00		\$6.00 \$1.30	. ,	
80 THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED 81 PAVEMENT LEGEND, TYPE B-HS: ARROWS	12,259.00		\$1.30 \$300.00	. ,	
82 PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE STENCIL	15.00		\$300.00	. ,	
83 PAVEMENT LEGEND, TYPE B-HS: BIKE YIELD LINE TRIANGLE	3.00		\$70.00		
84 PAVEMENT LEGEND, TYPE 5-RS. BIKE TIELD LINE TRIANGLE  84 PAVEMENT LEGEND, TYPE F: GREEN BICYCLE LANE MARKINGS	12,090.00		\$9.60		
85 PAVEMENT BAR, TYP B-HS	1.656.00		\$9.50		
86 REMOVE EXISTING SIGNS	1,030.00	LS	\$2,500.00		
87 REMOVE & REINSTALL EXISTING SIGNS	1.00	LS	\$3,200.00	, ,	
88 WOOD SIGN POSTS	0.00	FBM	\$32.00		
89 SIGN SUPPORT FOOTINGS, BREAKAWAY	1.00	LS	\$21,000.00		
90 PIPE SIGN SUPPORTS	1.00	LS	\$14,500.00		
91 BIKE RACK SIGN SUPPORTS	0.00	EACH	\$700.00		
92 60" WHITE ROUND TOP SURFACE MOUNTED TUBULAR MARKER SIGN MOUNTS	10.00	EACH	\$480.00		
93 TYPE "B" SIGNS IN PLACE	10.00		\$25.00		
94 TYPE "BL1" SIGNS IN PLACE	4.50		\$25.00		
95 TYPE "F" SIGNS IN PLACE	10.00		\$25.00		
96 TYPE "G" SIGNS IN PLACE	62.89	SQFT	\$36.00		
97 TYPE "R" SIGNS IN PLACE	81.75	SQFT	\$20.00		
98 TYPE "W1" SIGNS IN PLACE	24.50	SQFT	\$20.00	\$49	
99 TYPE "W2" SIGNS IN PLACE	14.00	SQFT	\$20.00	\$28	
100 TYPE "W12" SIGNS IN PLACE	47.24	SQFT	\$30.00	\$1,41	
101 TYPE "Y1 "SIGNS IN PLACE	9.33	SQFT	\$20.00	\$18	
102 TYPE "Y4" SIGNS IN PLACE	18.75		\$20.00	\$37	
103 42 INCH DIAMETER SIGNAL SUPPORT DRILLED SHAFT	45.00	FOOT	\$800.00	\$36,00	
104 POLE FOUNDATIONS	1.00	LS	\$48,100.00	\$48,10	
105 LIGHTING POLES, FIXED BASE	1.00	LS	\$62,000.00		
106 LIGHTING POLE ARMS	1.00	LS	\$2,300.00		
107 LUMINAIRES, LAMPS AND BALLASTS	1.00	LS	\$50,500.00		
108 SWITCHING, CONDUIT AND WIRING	1.10		\$90,000.00		
109 TRAFFIC SIGNAL INSTALLATION	1.00		\$266,000.00		
110 INTERCONNECT SYSTEM (underground)	1.00		\$25,000.00		
111 LAWN SEEDING		SQYD	\$6.00		
112 TOPSOIL		CUYD	\$110.00		
113 REMOVING AND REBUILDING FENCE		FOOT	\$26.00		
30A VIDEO INSPECTION OF SEWERS, LATERALS		EACH	\$600.00		
CO 3.01 MAJOR ADJUSTMENT OF MANHOLES CO 3.02 CONNECTION TO EXISTING STRUCTURES	0.00		\$3,500.00 \$3,580.00		
	1.00	DAYS	-\$3,400.00	. ,	
CO 6 01H IOHIDATED DAMAGES			\$8,994.20		
CO 6.01 LIQUIDATED DAMAGES		LO			
CO 7.01 ASPHALT ESCALATION	1.00 2.830.40	SOFT			
CO 7.01 ASPHALT ESCALATION CO 8.01 CONCRETE PAVERS	2,830.40		\$41.75 \$185 440 00		
CO 7.01 ASPHALT ESCALATION CO 8.01 CONCRETE PAVERS CO 9.01 EXTRA REMOVAL OF STRUCTURES & OBSTRUCTIONS	2,830.40 0.79	LS	\$185,440.00	\$146,04	
CO 7.01 ASPHALT ESCALATION CO 8.01 CONCRETE PAVERS CO 9.01 EXTRA REMOVAL OF STRUCTURES & OBSTRUCTIONS O 11.01 CONTAMINATED MEDIA DISPOSAL	2,830.40 0.79			\$146,04 \$230,85	
O 7.01 ASPHALT ESCALATION O 8.01 CONCRETE PAVERS O 9.01 EXTRA REMOVAL OF STRUCTURES & OBSTRUCTIONS O 11.01 CONTAMINATED MEDIA DISPOSAL ROUNDING	2,830.40 0.79	LS	\$185,440.00	\$146,04	
CO 7.01 ASPHALT ESCALATION CO 8.01 CONCRETE PAVERS CO 9.01 EXTRA REMOVAL OF STRUCTURES & OBSTRUCTIONS O 11.01 CONTAMINATED MEDIA DISPOSAL	2,830.40 0.79	LS	\$185,440.00	\$146,04 \$230,85	