Water
PS+E comments
2/27/15

Portland Avenue Revitalization Project - Lux Street to Norton Street
PC 14105 Wendel 22134062
2/12/2015 Design Estimate

			Engineer's Opinion of Probable Cost			City Street Share		City Water Share		County Sewer Share		County Traffic Share	
Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Quantity	Share Cost	Quantity	Share Cost	Quantity	Share Cost	Quantity	Share Cost
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	40	$ 40.00	$ 1,600.00	40	$ 1,600.00		$ -		$ -		$ -
203.03	EMBANKMENT IN PLACE	CY	10	$ 30.00	$ 300.00	10	$ 300.00		$ -		$ -		$ -
S203.26	SAND	CY	35	$ 50.00	$ 1,750.00		$ -	35	$ 1,750.00		$ -		$ -
S203.29	SELECT GRANULAR BACKFILL (WATER)	CY	75	$ 45.00	$ 3,375.00		$ -	75	$ 3,375.00		$ -		$ -
S205.07	PAVEMENT REPLACEMENT - ASPHALT BASE (8 INCH)	SY	75	$ 110.00	$ 8,250.00	45	$ 4,950.00	30	$ 3,300.00		$ -		$ -
R206.04	TRENCH AND CULVERT EXCAVATION	CY	245	$ 30.00	$ 7,350.00		$ -	180	$ 5,400.00	65	$ 1,950.00		$ -
C206.0601	ABANDON EXISTING SEWER	CY	1	$ 100.00	$ 100.00		$ -		$ -	1	$ 100.00		$ -
C206.0818	TRAFFIC SIGNAL CONDUIT EXCAVATION AND RESTORATION IN CONCRETE SIDEWALK AND DRIVEWAY	LF	10	$ 45.00	$ 450.00		$ -		$ -		$ -	10	$ 450.00
304.02	SUBBASE COURSE, TYPE 1	CY	25	$ 70.00	$ 1,750.00	25	$ 1,750.00		$ -		$ -		$ -
304.03	SUBBASE COURSE, TYPE 2	CY	25	$ 40.00	$ 1,000.00	25	$ 1,000.00		$ -		$ -		$ -
S409.03	FLEXIBLE POROUS PAVEMENT (3 INCH)	SF	375	$ 1.50	$ 562.50	375	$ 562.50		$ -		$ -		$ -
S412.08	TEMPORARY PAVEMENT WITH SUBBASE COURSE	SF	650	$ 5.00	$ 3,250.00		$ -	150	$ 750.00	500	$ 2,500.00		$ -
R601.0208	8" POLYVINYL CHLORIDE LATERAL PIPE, SDR21 - INSTALLED (INCLUDING LATERAL CONNECTION)(INCLUDING EXCAVATION, BACKFILL, AND PAVEMENT RESTORATION)	LF	38	$ 100.00	$ 3,800.00		$ -		$ -	38	$ 3,800.00		$ -
R601.0212	12" POLYVINYL CHLORIDE LATERAL PIPE, SDR21 - INSTALLED (INCLUDING LATERAL CONNECTION)(INCLUDING EXCAVATION, BACKFILL, AND PAVEMENT RESTORATION)	LF	5	$ 100.00	$ 500.00		$ -		$ -	5	$ 500.00		$ -
R601.08	LATERAL CONNECTION TO EXISTING LATERAL	EA	2	$ 500.00	$ 1,000.00		$ -		$ -	2	$ 1,000.00		$ -
R601.09	LATERAL CONNECTION TO EXISTING STONE BOX SEWER	EA	1	$ 1,500.00	$ 1,500.00		$ -		$ -	1	$ 1,500.00		$ -
S604.3702	TYPE B CATCH BASIN - INSTALLED (INCULDING EXCAVATION, BACKFILL, AND PAVEMENT RESTORATION)	EA	6	$ 2,500.00	$ 15,000.00		$ -		$ -	6	$ 15,000.00		$ -
S604.4101	ADDITIONAL DEPTH TYPE B CATCH BASIN (INCLUDING EXCAVATION AND BACKFILL)	LF	5	$ 300.00	$ 1,500.00		$ -		$ -	5	$ 1,500.00		$ -
R604.50	ADJUST EXISTING CATCH BASIN FRAME AND COVER (INCLUDING EXCAVATION AND BACKFILL)	EA	7	$ 700.00	$ 4,900.00		$ -		$ -	7	$ 4,900.00		$ -
S604.560303	ABANDON AND REMOVE EXISTING CATCH BASIN (INCLUDING EXCAVATION, BACKFILL PAVEMENT RESTORATION)	EA	5	$ 800.00	$ 4,000.00		$ -		$ -	5	$ 4,000.00		$ -
S604.60	ADJUST EXISTING SEWER MANHOLE FRAME AND COVER (INCLUDING EXCAVATION AND BACKFILL)	EA	2	$ 700.00	$ 1,400.00		$ -		$ -	2	$ 1,400.00		$ -
S605.140106	6" PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING	LF	1225	$ 10.00	$ 12,250.00	1225	$ 12,250.00		$ -		$ -		$ -
S608.14	CONCRETE SIDEWALK AND DRIVEWAY (INCLUDING EXCAVATION AND SUBBASE COURSE)	CY	240	$ 500.00	$ 120,000.00	240	$ 120,000.00		$ -		$ -		$ -
S608.15	ASPHALT DRIVEWAY - LIGHT DUTY	SF	370	$ 9.00	$ 3,330.00	370	$ 3,330.00		$ -		$ -		$ -
S608.37	EXPOSED AGGREGATE CONCRETE (INCLUDING EXCAVATION AND SUBBASE)	CY	125	$ 650.00	$ 81,250.00	125	$ 81,250.00		$ -		$ -		$ -
S608.380602	EMBEDDED DETECTABLE WARNING SYSTEM	SF	270	$ 45.00	$ 12,150.00	270	$ 12,150.00		$ -		$ -		$ -
S608.55	HEAVY-DUTY COMMERCIAL CONCRETE DRIVEWAY (INCLUDING EXCAVATION AND SUBBASE)	CY	3.5	$ 1,500.00	$ 5,250.00	3.5	$ 5,250.00		$ -		$ -		$ -
S608.5601	DECORATIVE COLORED CONCRETE	CY	20.0	$ 650.00	$ 13,000.00	20	$ 13,000.00		$ -		$ -		$ -
S609.40	MODIFY EXISTING CURB - SAW CUTTING	LF	207	$ 25.00	$ 5,175.00	207	$ 5,175.00		$ -		$ -		$ -
S609.6005CR	5" STONE CURB (CR CURB) (INCLUDING EXCAVATION, BACKFILL, AND PAVEMENT RESTORATION)	LF	820	$ 70.00	$ 57,400.00	820	$ 57,400.00		$ -		$ -		$ -
S609.6105CR	5" RADIUS STONE CURB (CR CURB) (INCLUDING EXCAVATION, BACKFILL, AND PAVEMENT RESTORATION)	LF	550	$ 75.00	$ 41,250.00	550	$ 41,250.00		$ -		$ -		$ -
S609.7205CR	5" TRANSITION AND HEADER STOND CURB FOR DRIVEWAY (CR CURB) (INCLUDING ROUNDING) (INCLUDING EXCAVATION, BACKFILL, AND PAVEMENT RESTORATION)	LF	261	$ 75.00	$ 19,575.00	261	$ 19,575.00		$ -		$ -		$ -
S610.0502	HYDROSEEDING	SF	1200	$ 0.20	$ 240.00	1200	$ 240.00		$ -		$ -		$ -
S611.0401	TREE PLANTING (PYRUS CALLERYANA 'CHANTICLEER' - CHANTICLEER CALLERY PEAR)	EA	8	$ 500.00	$ 4,000.00	8	$ 4,000.00		$ -		$ -		$ -
S611.0402	TREE PLANTING (SYRINGA RETICULATE 'IVORY SILK' - IVORY SILK JAPANESE TREE LILAC)	EA	13	$ 500.00	$ 6,500.00	13	$ 6,500.00		$ -		$ -		$ -
S611.0403	TREE PLANTING (ACER X FREEMANII 'AUTUMN BLAZE' - AUTUMN BLAZE RED MAPLE)	EA	4	$ 500.00	$ 2,000.00	4	$ 2,000.00		$ -		$ -		$ -
S611.0404	TREE PLANTING (GLEDITSIA TRICHANTHOS INERMIS 'SKYLINE' - SKYLINE HONEY LOCUST)	EA	4	$ 500.00	$ 2,000.00	4	$ 2,000.00		$ -		$ -		$ -
S611.0405	TREE PLANTING (CRATAGUS X LAVALLEI 'WINTER KING' - WINTER KING HAWTHORNE)	EA	7	$ 500.00	$ 3,500.00	7	$ 3,500.00		$ -		$ -		$ -
S611.0406	TREE PLANTING (ZELKOVA SERRATA 'GREEN VASE' - GREEN VASE JAPANESE ZELKOVA)	EA	2	$ 500.00	$ 1,000.00	2	$ 1,000.00		$ -		$ -		$ -
S611.0407	TREE PLANTING (QUERCUS ROBUR - ENGLISH OAK)	EA	3	$ 500.00	$ 1,500.00	3	$ 1,500.00		$ -		$ -		$ -
S611.0701	SHRUB PLANTING (HEMEROCALLIS 'STELLA DE ORO' DAY LILY)	EA	80	$ 25.00	$ 2,000.00	80	$ 2,000.00		$ -		$ -		$ -

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S613.03	TOPSOIL	CY	15	$ 60.00	$ 900.00	15	$ 900.00		$ -		$ -		$ -
S614.35	TREE REMOVAL - 6" to 11"	EA	1	$ 500.00	$ 500.00	1	$ 500.00		$ -		$ -		$ -
S614.36	TREE REMOVAL - 12" to 17"	EA	2	$ 650.00	$ 1,300.00	2	$ 1,300.00		$ -		$ -		$ -
S614.37	TREE REMOVAL - 18" to 23"	EA	1	$ 1,000.00	$ 1,000.00	1	$ 1,000.00		$ -		$ -		$ -
R615.06	6" STEEL BOLLARD	EA	4	$ 1,200.00	$ 4,800.00	4	$ 4,800.00		$ -		$ -		$ -
S615.98	DECORATIVE METAL BOLLARD	EA	50	$ 1,800.00	$ 90,000.00	50	$ 90,000.00		$ -		$ -		$ -
S617.01	FENCING FOR TREE PROTECTION	LF	2700	$ 4.00	$ 10,800.00	2700	$ 10,800.00		$ -		$ -		$ -
S626.07	RESET EXISTING MONUMENT FRAME AND COVER	EA	5	$ 250.00	$ 1,250.00	5	$ 1,250.00		$ -		$ -		$ -
635.0103	CLEANING AND PREPARATION OF PAVEMENT SURFACES - LINES	LF	6550	$ 1.00	$ 6,550.00	6550	$ 6,550.00		$ -		$ -		$ -
S637.10	FIELD OFFICE - TYPE A	MO	6	$ 1,500.00	$ 9,000.00	6	$ 9,000.00		$ -		$ -		$ -
S646.0101	DELINEATOR - PAVEMENT ANCHOR	EA	12	$ 50.00	$ 600.00	12	$ 600.00		$ -		$ -		$ -
S646.0301	DELINEATOR - SOIL ANCHOR	EA	9	$ 50.00	$ 450.00	9	$ 450.00		$ -		$ -		$ -
S671.020302	2" PVC CONDUIT (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	LF	560	$ 15.00	$ 8,400.00	560	$ 8,400.00		$ -		$ -		$ -
S671.030302	2" PVC CONDUIT- IN ROADWAY (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	LF	100	$ 35.00	$ 3,500.00	100	$ 3,500.00		$ -		$ -		$ -
S671.1101	ADJUST EXISTING CONCRETE PULLBOX	EA	25	$ 125.00	$ 3,125.00	25	$ 3,125.00		$ -		$ -		$ -
S671.1601	FIBERGLASS HANDHOLE/PULLBOX	EA	3	$ 1,000.00	$ 3,000.00	3	$ 3,000.00		$ -		$ -		$ -
S671.3101	METAL LIGHT POLE FOUNDATION	EA	10	$ 1,200.00	$ 12,000.00	10	$ 12,000.00		$ -		$ -		$ -
S672.0101	MAINTAIN EXISTING STREET LIGHTING SYSTEM	LS	1	$ 1,000.00	$ 1,000.00	1	$ 1,000.00		$ -		$ -		$ -
680.5002	CONCRETE BASE FOR CONTROLLER CABINET	EA	1	$ 1,400.00	$ 1,400.00		$ -		$ -		$ -	1	$ 1,400.00
R685.0504	4" WHITE OVERLAID PLASTIC PAVEMENT MARKING STRIPE	LF	2700	$ 0.50	$ 1,350.00	2700	$ 1,350.00		$ -		$ -		$ -
R685.0512	12" WHITE OVERLAID PLASTIC PAVEMENT MARKING STRIPE	LF	290	$ 1.50	$ 435.00	290	$ 435.00		$ -		$ -		$ -
R685.0516	16" WHITE OVERLAID PLASTIC PAVEMENT MARKING STRIPE	LF	35	$ 2.00	$ 70.00	35	$ 70.00		$ -		$ -		$ -
R685.0524	24" WHITE OVERLAID PLASTIC PAVEMENT MARKING STRIPE	LF	35	$ 3.00	$ 105.00	35	$ 105.00		$ -		$ -		$ -
R685.0604	4" YELLOW OVERLAID PLASTIC PAVEMENT MARKING STRIPE	LF	4300	$ 0.50	$ 2,150.00	4300	$ 2,150.00		$ -		$ -		$ -
R685.0624	24" YELLOW OVERLAID PLASTIC PAVEMENT MARKING STRIPE	LF	225	$ 3.00	$ 675.00	225	$ 675.00		$ -		$ -		$ -
C686.05	SIGN SLEEVE	EA	23	$ 150.00	$ 3,450.00	17	$ 2,550.00		$ -		$ -	6	$ 900.00
C686.1611	MAINTAIN EXISTING TRAFFIC SIGNAL EQUIPMENT	INT MO	6	$ 100.00	$ 600.00		$ -		$ -		$ -	6	$ 600.00
C686.5099	CONCRETE BASE REMOVAL (POLE AND CONTROLLER)	EA	1	$ 1,000.00	$ 1,000.00		$ -		$ -		$ -	1	$ 1,000.00
C686.52	PAINTING SIGNAL POLE AND ARM (SIGNAL OR SIGN)	EA	10	$ 2,500.00	$ 25,000.00	10	$ 25,000.00		$ -		$ -		$ -
C686.520610	CONDUIT PVC SCHEDULE 80 - 4" DIA	LF	20	$ 15.00	$ 300.00		$ -		$ -		$ -	20	$ 300.00
C686.53	PAINTING PEDESTRIAN SIGNAL POLE	EA	5	$ 1,500.00	$ 7,500.00	5	$ 7,500.00		$ -		$ -		$ -
C686.79	SIGNAL EQUIPMENT REMOVAL	LS	1	$ 2,000.00	$ 2,000.00		$ -		$ -		$ -	1	$ 2,000.00
C686.9955	MODIFY TRAFFIC SIGNAL CABLE	EA	1	$ 500.00	$ 500.00		$ -		$ -		$ -	1	$ 500.00
C689.802708	8 PHASE ACTUATED GROUND MOUNTED TRAFFIC CONTROLLER AND CABINET (FURNISHED)	EA	1	$ 2,000.00	$ 2,000.00		$ -		$ -		$ -	1	$ 2,000.00
S690.01000205	BANNERS	EA	11	$ 1,200.00	$ 13,200.00	11	$ 13,200.00		$ -		$ -		$ -
S690.01000105	SPECIALTY WORK (GENERAL) - MASONRY WALLS AT NORTON GATEWAY	LS	1	$ 50,000.00	$ 50,000.00	1	$ 50,000.00		$ -		$ -		$ -
S901.050306	6" DUCTILE IRON PIPE CLASS 52 FOR HYDRANT BRANCH	LF	30	$ 65.00	$ 1,950.00		$ -	30	$ 1,950.00		$ -		$ -
S903.0106	6" RESILIENT SEAT GATE VALVE BOX - VERTICAL TYPE	EA	4	$ 800.00	$ 3,200.00		$ -	4	$ 3,200.00		$ -		$ -
S906.0110	10" INSERTION SLEEVE 8" INSERT 6" INSERT	EA	3	$ 3,000.00	$ 9,000.00		$ -	3	$ 9,000.00		$ -		$ -
S909.06	REMOVE EXISTING WATER VALVE BOX (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION) ? HYDRANTS ?	EA	3	$ 400.00	$ 1,200.00		$ -	3	$ 1,200.00		$ -		$ -
S912.06	ABANDON EXISTING WATER SERVICE AT TAP (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA	20	$ 750.00	$ 15,000.00		$ -	20	$ 15,000.00		$ -		$ -
S912.090075	NEW 3/4" WATER SERVICE TAP AT WATER MAIN, CORPORATION STOP AND CONNECTION (INCLUDING ABANDONMENT OF EXISTING TAP) (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA	28	$ 450.00	$ 12,600.00		$ -	28	$ 12,600.00		$ -		$ -

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S912.090100	NEW 1" WATER SERVICE TAP AT WATER MAIN, CORPORATION STOP AND CONNECTION (INCLUDING ABANDONMENT OF EXISTING TAP) (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA	28	$ 600.00	$ 16,800.00		$ -	28	$ 16,800.00		$ -		$ -
S913.030075	NEW 3/4" COPPER WATER SERVICE (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	LF	800	$ 100.00	$ 80,000.00		$ -	800	$ 80,000.00		$ -		$ -
S913.130100	NEW 1" POLYETHYLENE WATER SERVICE (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	LF	725	$ 115.00	$ 83,375.00		$ -	725	$ 83,375.00		$ -		$ -
S914.030075	FURNISH AND INSTALL NEW 3/4" CURB STOP AND BOX AT NEW WATER SERVICE (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA	28	$ 250.00	$ 7,000.00		$ -	28	$ 7,000.00		$ -		$ -
S914.030100	FURNISH AND INSTALL NEW 1" CURB STOP AND BOX AT NEW WATER SERVICE (INCLUDING EXCAVATION, BACKFILL, AND SURFACE RESTORATION)	EA	28	$ 350.00	$ 9,800.00		$ -	28	$ 9,800.00		$ -		$ -
S917.01	NEW HYDRANT	EA	3	$ 3,200.00	$ 9,600.00		$ -	3	$ 9,600.00		$ -		$ -
S917.02	NEW HYDRANT (INCLUDING REMOVAL OF EXISTING HYDRANT)	EA	1	$ 3,500.00	$ 3,500.00		$ -	1	$ 3,500.00		$ -		$ -
S917.05	REMOVE EXISTING HYDRANT	EA	3	$ 350.00	$ 1,050.00		$ -	3	$ 1,050.00		$ -		$ -
S966.0332	32 POUND MAGNESIUM ANODE 17 # ANODES (14)	EA	76	$ 250.00	$ 19,000.00		$ -	76	$ 19,000.00		$ -		$ -
S999.0101	PROJECT SIGN	EA	2	$ 1,000.00	$ 2,000.00	2	$ 2,000.00		$ -		$ -		$ -
	~~JOINT BONDS ?~~	Subtotals			$ 1,001,692.50		$ 666,742.50		$ 287,650.00		$ 38,150.00		$ 9,150.00
							67%		29%		4%		1%
R619.01	BASIC MAINTENANCE AND PROTECTION OF TRAFFIC	LS	1	$ 45,000.00	$ 45,000.00	0.67	$ 30,363.77	0.29	$ 12,922.38	0.04	$ 1,713.85	0.00	$ -
634.01	SURVEY AND STAKEOUT	LS	1	$ 45,000.00	$ 45,000.00	0.67	$ 30,363.77	0.29	$ 12,922.38	0.04	$ 1,713.85	0.00	$ -
699.04	MOBILIZATION (4%)	LS	1	$ 40,067.70	$ 40,067.70	0.67	$ 27,035.70	0.29	$ 11,506.00	0.04	$ 1,526.00	0.00	$ -
		Totals			$ 1,131,760.20		$ 754,505.74		$ 325,000.76		$ 43,103.70		$ 9,150.00