

DATE 10/24/2012
 Project
 Length 1.05 L.M.

WILLIAMSON COUNTY
 SOUTH CAROTHERS PARKWAY
 FROM: CONNECTOR ROAD
 TO: FALCON CREST
 CITY OF FRANKLIN PROJECT # _____
 SULLIVAN ENGINEERING, INC PROJECT #12-005

PROJECT QUANTITIES (COORDINATE WITH TABULATED DATA FOR ADDITIONAL FOOTNOTES)					
ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY.	UNIT PRICE	TOTAL PRICE
105-01	CONSTRUCTION STAKES LINES AND GRADES	L.S.	1	\$90,576.39	\$90,576.39
201-01	CLEARING AND GRUBBING	L.S.	1	\$196,791.94	\$196,791.94
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (INCLUDES BUT NOT LIMITED TO ITEMS SUCH AS SIGNS, FLEXIBLE DELINEATORS, FENCES, CONCRETE CURBS, MAILBOXES AND ALL OTHER ITEMS WITHIN THE GRADING LIMITS UNLESS OTHERWISE NOTED.)	L.S.	1	\$22,582.57	\$22,582.57
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED, INCLUDES 13 C.Y. FOR CONSTRUCTION ENTRANCE)	C.Y.	27657	\$12.75	\$352,626.75
203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	116700	\$7.07	\$825,069.00
203-04	PLACING & SPREADING TOPSOIL	C.Y.	8858	\$4.56	\$40,392.48
203-05	UNDERCUTTING (UNIT PRICE BIDS INCLUDES MINERAL AGGREGATE (SURGE STONE) BACKFILL)	C.Y.	2766	\$32.53	\$89,968.22
203-06	WATER	M.G.	1345	\$7.10	\$9,549.50
203-07	FURNISHING & SPREADING TOPSOIL	C.Y.	15738	\$17.23	\$271,165.74
204-07	BEDDING MATERIAL (PIPE) CLASS "B"	C.Y.	2559	\$29.36	\$75,132.24
204-08	FOUNDATION FILL MATERIAL	C.Y.	1112	\$49.10	\$54,599.20
209-05	SEDIMENT REMOVAL	C.Y.	2246	\$7.73	\$17,361.58
209-08.02	TEMPORARY SILT FENCE (WITH BACKING), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	L.F.	11092	\$3.71	\$41,151.32
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	L.F.	11092	\$1.16	\$12,866.72
209-08.07	ROCK CHECK DAM ("V-DITCH", 2+/- DEPTH, OR AS DIRECTED BY THE ENGINEER, AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	32	\$359.83	\$11,514.56
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	8	\$529.64	\$4,237.12
209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	4	\$387.20	\$1,548.80
209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	106	\$406.70	\$43,110.20
209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7), (AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	EACH	11	\$660.00	\$7,260.00
303-01	MINERAL AGGREGATE TYPE A BASE GRADING "D", (INCLUDES XXX TONS FOR STONE WEDGE)	TON	14793	\$17.13	\$253,404.09
303-01.01	GRANULAR BACKFILL FOR STRUCTURES	TON	5000	\$19.52	\$97,600.00
307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	112	\$857.10	\$95,995.20
307-02.03	AGGREGATE(BPMB-HM) GRADING AS	TON	3323	\$41.85	\$139,067.55
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	4388	\$67.55	\$296,409.40
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	2156	\$75.48	\$162,734.88
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC), (INCLUDES 15 TONS FOR MAINTENANCE OF TRAFFIC)	TON	44	\$700.74	\$30,832.56

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ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY.	UNIT PRICE	TOTAL PRICE
402-02	AGGREGATE FOR COVER MATERIAL (PC), (INCLUDES 57 TONS FOR MAINTENANCE OF TRAFFIC)	TON	173	\$38.65	\$6,686.45
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC), (INCLUDES 1 TONS FOR MAINTENANCE OF TRAFFIC)	TON	17	\$684.68	\$11,639.56
407-20.05	SAW CUTTING ASPHALT PAVEMENT, (TO BE USED AS DIRECTED BY THE ENGINEER FOR CONNECTIONS AT EXISTING ROADWAYS. IF THE CONTRACTOR ELECTS TO SAW CUT FOR OTHER PURPOSES, PAYMENT SHALL BE DISALLOWED UNLESS PRE-APPROVED BY THE ENGINEER.)	L.F.	651	\$3.12	\$2,031.12
411-02.10	ACS MIX(PG70-22) GRADING D	TON	1471	\$95.64	\$140,686.44
604-08.10	RETAINING WALL, UNIT PRICE INCLUDES: ALL MATERIALS, LABOR, EXCAVATION, GRANULAR BACKFILL, CAP STONE, INCLUSIVE OF ALL APPURTENANCES FOR A COMPLETE SYSTEM.)	S.F	4000	\$50.00	\$200,000.00
611-01.03	MANHOLES, 8' - 12' DEPTH (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	1	\$5,650.00	\$5,650.00
611-07.01	CLASS "A" CONCRETE (PIPE END WALLS)	C.Y.	48	\$1,279.74	\$61,427.52
611-07.02	STEEL BAR REINFORCEMENT (PIPE END WALLS)	LB.	4361	\$1.88	\$8,198.68
611-07.03	STRUCTURAL STEEL (PIPE END WALLS)	LB.	1578	\$5.17	\$8,158.26
611-12.01	CATCH BASINS, TYPE 12, DEPTH 0' - 4' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	2	\$2,331.68	\$4,663.36
611-12.02	CATCH BASINS, TYPE 12, DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	80	\$2,690.46	\$215,236.80
611-12.03	CATCH BASINS, TYPE 12, DEPTH 8' - 12' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	16	\$5,888.71	\$94,219.36
611-14.02	CATCH BASINS, TYPE 14, DEPTH 4' - 8' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	12	\$7,237.09	\$86,845.08
611-14.02	CATCH BASINS, TYPE 14, DEPTH 8' - 12' (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	1	\$7,653.83	\$7,653.83
611-42.01	CATCH BASINS, TYPE 42, DEPTH 0' - 4', (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION, QUANTITY INCLUDES 6 STRUCTURES TO BE COORDINATED WITH STREETScape PLANS PREPARED BY EG&G, INC.)	EACH	3	\$2,331.68	\$6,995.04
611-42.02	CATCH BASINS, TYPE 42, DEPTH 4' - 8', (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL, CASTINGS, BRICK WORK AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	4	\$2,690.46	\$10,761.84
611-02.10	JUNCTION BOX, TYPE 1 (COMPLETE IN-PLACE, INCLUSIVE OF ALL EXCAVATION, BACKFILL AND APPURTENAMCES NECESSARY FOR A COMPLETE INSTALLATION)	EACH	2	\$3,133.89	\$6,267.78
701-01.01	CONCRETE SIDEWALK (4" THICKNESS W/ FIBER MESH AND 6" AGGREGATE CLASS "A" GRADING "D" BASE)	S.F.	28105	\$4.23	\$118,884.15
701-02	CONCRETE DRIVEWAY (APPROACH APRON WITHIN RIGHT-OF-WAY, 8" THICKNESS W/ FIBER MESH AND 4" AGGREGATE CLASS "A" GRADING "D" BASE)	S.F	2116	\$6.33	\$13,394.28
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	475	\$167.20	\$79,420.00
705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	0	\$17.62	\$0.00
705-04.01	GUARDRAIL TERMINAL ANCHOR (TYPE 11)	EACH	0	\$400.00	\$0.00
705-04.29	CRASH-CUSHION, NCHRP350 TC3	EACH	0	\$2,724.56	\$0.00
708-02.02	MARKERS (CITY OF FRANKLIN AS SHOWN ON THE DETAIL SHEET)	EACH	19	\$235.82	\$4,480.58

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ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY.	UNIT PRICE	TOTAL PRICE
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE, (INCLUDES 900 L.F. TO BE USED WITH EROSION CONTROL, UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	L.F.	1950	\$2.38	\$4,641.00
709-05.05	MACHINED RIP-RAP (CLASS A-3), INCLUDES 100 TONS FOR CONSTRUCTION ENTRANCE, 00 TONS FOR CULVERT PROTECTION TYPE 1)	TON	100	\$35.17	\$3,517.00
709-05.06	MACHINED RIP-RAP (CLASS A-1), INCLUDES 00 TON FOR TEMPORARY SLOPE DRAINS, 00 TON FOR CULVERT PROTECTION TYPE 1)	TON	250	\$39.02	\$9,755.00
709-05.09	MACHINED RIP-RAP (CLASS "C"),	TON	300	\$41.23	\$12,369.00
710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	13287	\$5.18	\$68,826.66
712-01	TRAFFIC CONTROL (UNIT PRICE BID INCLUDES INSTALLATION AND REMOVAL COST OF ALL TEMPORARY PAVEMENT MARKINGS INCLUSIVE OF TEMPORARY MARKINGS ON THE FINAL ASPHALT TOPPING. THIS ITEM SHALL ALSO INCLUDE ALL TRAFFIC CONTROL FOR INSTALLATION OF TRAFFIC SIGNALS AS NOTED ON THE DESIGN DOCUMENTS AS REQUIRED TO COMPLETE THE PROJECT.	L.S.	1	\$33,023.07	\$33,023.07
712-04.10	28-INCH TEMPORARY FLEXIBLE TUBULAR DELINEATOR, (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	EACH	60	\$50.00	\$3,000.00
712-06	SIGNS (CONSTRUCTION), (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	S.F.	321	\$7.31	\$2,346.51
712-06.01	VERTICAL PANELS (ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE DURATION OF THE PROJECT.)	S.F.	4	\$10.37	\$41.48
712-06.11	CONSTRUCTION IDENTIFICATION SIGNS	EACH	2	\$772.72	\$1,545.44
712-07.03	TEMPORARY BARRICADES (TYPE III), (UNIT PRICE BID INCLUDES SIGN (R11-2 AND TYPE "A" FLASHING LIGHTS, ESTIMATED QUANTITY IS BASED ON PHASE WHICH REQUIRES HIGHEST QUANTITY. UNIT PRICE BID INCLUDES COST OF ADJUSTMENTS NECESSARY AS THE CONSTRUCTION PHASES EVOLVE THROUGHOUT THE CONSTRUCTION PROJECT.)	L.F.	90	\$24.73	\$2,225.70
713-16.04	CHANGEABLE MESSAGE SIGN UNIT (MEETS MUTCD REQUIREMENTS FOR PORTABLE MESSAGE SIGNS, COORDINATE WITH PROJECT MANUAL. SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. AT COMPLETION OF THE PROJECT THE SIGNS SHALL BECOME PROPERTY OF THE CITY OF FRANKLIN STREET DEPARTMENT. THE SIGNS SHALL BE IN LIKE NEW CONDITION, PROPER WORKING ORDER WITH ALL FACTORY MANUALS. A WARRANTY SHALL BE CONVEYED TO THE CITY OF FRANKLIN AT THE COMPLETION OF THE PROJECT FOR A PERIOD EQUAL TO THAT OF THE ORIGINAL AS FURNISHED BY THE MANUFACTURER.)	EACH	2	\$11,000.00	\$22,000.00
713-16.40	SIGNS (STOP, R1-1, UNIT PRICE BID INCLUDES SQUARE TUBE PERFORATED POST (P8), COORDINATE WITH PAVEMENT MARKING AND SIGNING SHEETS AS MULTIPLE SIGNS MAY BE ATTACHED TO ONE POST)	EACH	3	\$146.43	\$439.29
713-16.41	SIGNS (SPEED LIMIT-35 MPH, R2-1, UNIT PRICE BID INCLUDES SQUARE TUBE PERFORATED POST (P8), COORDINATE WITH PAVEMENT MARKING AND SIGNING SHEETS AS MULTIPLE SIGNS MAY BE ATTACHED TO ONE POST)	EACH	6	\$146.43	\$878.58
713-16.42	SIGNS (LANE TAPER, W4-2R, UNIT PRICE BID INCLUDES SQUARE TUBE PERFORATED POST (P8), COORDINATE WITH PAVEMENT MARKING AND SIGNING SHEETS AS MULTIPLE SIGNS MAY BE ATTACHED TO ONE POST)	EACH	2	\$146.43	\$292.86

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ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY.	UNIT PRICE	TOTAL PRICE
713-16.57	SIGNS (BIKE, D11-1, UNIT PRICE BID INCLUDES SQUARE TUBE PERFORATED POST (P8), COORDINATE WITH PAVEMENT MARKING AND SIGNING SHEETS AS MULTIPLE SIGNS MAY BE ATTACHED TO ONE POST)	EACH	2	\$146.43	\$292.86
716-12.01	ENHANCED FLATLINE THERMO PAVEMENT MARKING (4" LINE, SSWL, SSYL, DSYL, SBYL & SBWL)	LIN. MI.	5.7	\$3,464.12	\$19,745.48
716-02.04	PLASTIC PVMNT MARKING (CHANNELIZATION STRIPING)	S.Y.	0	\$28.90	\$0.00
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	254	\$10.94	\$2,778.76
716-02.06	PLASTIC PAVEMENT MARKING TURN LANE ARROW (LEFT OR RIGHT)	EACH	6	\$169.29	\$1,015.74
716-02.09	PLASTIC PVMNT MARKING (LONGITUDINAL CROSS-WALK), (QUANTITY IS CALCULATED FROM FACE OF CURB TO FACE OF CURB)	L.F.	90	\$33.66	\$3,029.40
716-04.11	PLASTIC PAVEMENT MARKING (BICYCLE SYMBOL W/RIDER)	EACH	6	\$358.00	\$2,148.00
716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	2	\$177.27	\$354.54
717-01	MOBILIZATION	L.S.	1	\$207,090.21	\$207,090.21
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL), (INCLUDES 172 S.Y. FOR CONSTRUCTION ENTRANCE, 00 S.Y. FOR CULVERT PROTECTION TYPE 1)	S.Y.	172	\$3.05	\$524.60
740-11.03	TEMPORARY SEDIMENT TUBE 18 INCH (TO BE USED FOR EROSION CONTROL AS DIRECTED BY THE ENGINEER, AFTER THE INITIAL INSTALLATION ALL COST ASSOCIATED WITH REPAIR, MAINTENANCE AND REPLACEMENT DURING THE LIFE OF THIS CONTRACT SHALL BE AT THE CONTRACTORS EXPENSE.)	L.F.	300	\$4.11	\$1,233.00
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1119	\$22.81	\$25,524.39
801-03	WATER (SEEDING & SODDING)	M.G.	1096	\$8.70	\$9,535.20
803-01	SODDING (NEW SOD, INSTALLATION SHALL BE INSTALLED ON TOPSOIL. TOPSOIL SHALL HAVE A MINIMUM DEPTH OF 6 INCHES)	S.Y.	98383	\$2.77	\$272,520.91
	LIGHTING				\$5,047,542.83
714-09.09	LUMINAIRE ((LIGHT EMITTING DIODE "LED" - COOPER #VSTB04LEDEUSL3BK47060AIS), W/6"+/- MOUNTING ARM A-BOLTS AND HARDWARE, (TO BE COORDINATED WITH PROJECT MANUAL FOR APPROVED PRODUCTS AND SPECIFICATIONS)	EACH	37	\$1,287.75	\$47,646.75
773-90.01	PHOTO CONTROL, RIPLEY LONGLIFE 6390L-BK MULTI-VOLT	EACH	37	\$48.93	\$1,810.36
714-03.01	2" SCHEDULE 40 PVC, ELECTRICAL GRAY	L.F.	5500	\$4.65	\$25,575.00
714-03.02	2" SCHEDULE 40 PVC, STANDARD RADIUS ELBOW	EACH	148	\$25.15	\$3,722.20
714-03.04	3" SCHEDULE 80 PVC MIN 24" STANDARD RADIUS ELBOW	L.F.	8	\$23.51	\$188.08
714-08.09	SQUARE ALUMINUM LIGHTING POLE, 30', (BLACK, HAPCO #11-290-A5-D-30', ALUM POLE WITH BLACK ANODIZED FINISH, WITH A-BOLTS AND HARDWARE, OR APPROVED EQUAL)	EACH	34	\$1,707.85	\$58,066.90
	Round tapered Aluminum Lighting Pole, 30', with Single 6' Davit Arm, Black, Hapco # B41-176	EACH	3	\$1,900.00	\$5,700.00
714-08.28	FOUNDATION PREPERATION (INCLUSIVE OF ALL RELATED ITEMS FOR ROADWAY LIGHT STANDARDS, CAST IN PLACE FOUNDATION, 22" DIAMETER, 6'-6" DEPTH. THIS DOES NOT INCLUDE CLASS "A" CONCRETE OR REINFORCING STEEL)	EACH	37	\$637.63	\$23,592.31
714-08.43	FOUNDATION FOR ROADWAY LIGHT STANDARDS (CLASS "A" CONCRETE FOR STREET LIGHT FOUNDATIONS))	C.Y.	23.5	\$145.93	\$3,429.30
730-12.03	CONDUIT 3" DIAMETER (SCHEDULE 40 PVC, W/PULL STRING AND 2 @ 1" INNERDUCT SLEEVES, WITH #14 BARE COPPER LOCATE WIRE), (LOCATION TO BE COORDINATED WITH THE EXISTING FIBER OPTIC SYSTEM, HDPE MAY BE SUBSTITUTED FOR SCHEDULE 40 PVC.)	L.F.	215	\$6.68	\$1,436.20
	3" Schedule 80 PVC, Electrical Gray, Service Riser	EACH	80	\$12.00	\$960.00
773-90.06	SMALL PULL BOX, CDR#PA10-1324-18-0299, QUAZITE #PG2436Z510MT, HIGHLINE #PHA243618SE1-32, 94 OLDCASTLE #243618PB7021	EACH	39	\$396.21	\$15,452.19
773-90.07	NO. 2 REINFORCING STEEL BAR (FOR STREET LIGHT FOUNDATIONS)	L.F.	1110	\$0.60	\$667.39
773-90.08	NO. 4 REINFORCING STEEL BAR (FOR STREET LIGHT FOUNDATIONS)	L.F.	1110	\$0.77	\$849.15
773-90.09	MILBANK METERING PEDESTAL WITH SWITCHED LOAD CENTER, #CP3B1110A22SL1	EACH	2	\$2,400.00	\$4,800.00

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ITEM NO.	ITEM DESCRIPTION	UNIT	EST QTY.	UNIT PRICE	TOTAL PRICE
773-90.11	RISER CONDUIT STAND-OFF BRACKET, NEHRWESS, BARFILED OR ALUMAFORM	EACH	6	\$124.11	\$744.66
773-90.14	CUTLER HAMMER #BR230, 2-POLE, 30AMP BREAKER	EACH	2	\$20.00	\$40.00
	#4 Conductor Reducer, Burndy #YC4L12	EACH	4	\$20.00	\$80.00
303-10.04	MINERAL AGGREGATE (½" GRAVEL FOR SECONDARY BOX INSTALLATION)	C.Y.	56	\$49.81	\$2,789.36
773-90.15	#12 SOLID TYPE UF-B FOR LIGHT POST RISERS	L.F.	4260	\$0.50	\$2,119.35
773-90.17	#6 BARE SOFT DRAWN COPPER FOR LIGHT POST GROUNDING	L.F.	340	\$0.58	\$197.20
773-90.16	#10 COPPER, THHN OR THWN, GREEN, GROUND/GROUNDING CONDUCTOR	L.F.	6050	\$0.57	\$3,471.19
773-90.16	#4 BARE COPPER FOR LIGHT POLE GROUNDING	L.F.	215	\$1.12	\$240.80
773-90.13	#2 COPPER, THHN OR THWN, INCLUDES TWO (2) SERVICE CONDUCTORS	L.F.	430	\$2.91	\$1,252.91
773-90.14	#4 COPPER, THHN OR THWN, WHITE, FOR SERVICE GROUNDED CONDUCTOR	L.F.	12100	\$1.44	\$17,393.75
773-90.20	8' GROUND ROD, 5/8" COPPER-CLAD STEEL, EQUAL TO BLACKBURN #6258	EACH	34	\$55.36	\$1,882.33
773-90.21	GROUND BONDING CLAMP FOR 5/8" GROUND ROD	EACH	34	\$8.64	\$293.89
773-90.22	BREAKAWAY FUSE HOLDER FOR EACH POLE MOUNT, HOMAC #SLK-M	EACH	142	\$23.80	\$3,379.60
773-90.23	FUSE FOR BREAKAWAY FUSE HOLDER, LITTLEFUSE #FLM9	EACH	142	\$7.22	\$1,025.60
773-90.24	PARALLEL BONDING CONNECTOR FOR POLE GROUNDS, ANDERSON #C-4-L OR EQUAL	EACH	34	\$6.86	\$233.11
773-90.25	SUBMERSIBLE SECONDARY CONNECTORS HOMAC RAB-4 OR CMC #SSBC350-4LI	EACH	68	\$26.19	\$1,780.92
773-90.26	ABOVE GRADE CONNECTOR FOR #12 CONDUCTOR, RED WIRE NUT	EACH	142	\$0.33	\$47.39
714-30.02	MISCELLANEOUS ACTIVITIES, SUCH AS SERVICES AND FEES FOR PERMITS, MOBILIZATION, AND SCHEDULING	LOT	1	\$2,943.93	\$2,943.93
714-30.01	AS-BUILT MARK-UPS	SET	1	\$448.87	\$448.87

TOTAL ENGINEERING ESTIMATE	\$5,281,803.50
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TOTAL ROADWAY ENGINEERING ESTIMATE	\$5,047,542.83
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TOTAL LIGHTING ENGINEERING ESTIMATE	\$234,260.68
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CONTINGENCY ALLOWANCE	5.00%	\$264,090.18
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TOTAL ROADWAY ENGINEERING ESTIMATE	\$5,545,893.68
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