

VIRGIN ISLANDS WATER & POWER AUTHORITY
CHARLOTTE AMALIE - UNDERGROUND ELECTRIC CONSTRUCTION PROJECT
FEEDER 9A, Phase 1, Construction Bid Form, 05-21-25
ST. THOMAS U.S. VIRGIN ISLANDS

Item	Quantity	Unit	Description	Unit Cost	Total Cost
GENERAL					
1A	1	Lot	Mobilization	\$853,923.50	\$853,923.50
1B	1	Lot	Bonding: Bid Guarantee, Performance Bond, Payment Bond	\$58,000.00	\$58,000.00
2	1	Lot	Construction Impact Mitigation including Stormwater / Sediment & Erosion Control, Dust Control, Dewatering, Noise Control, Vibration Control, Landscaping & Brush / Tree Removal & Protection	\$124,000.00	\$124,000.00
3A	1	Lot	Traffic Control/Traffic Control Devices/Road Closure Permits	\$109,000.00	\$109,000.00
3B	1	Lot	Traffic Control/Traffic Control Devices/Road Closure Permits (cable only areas)	\$222,000.00	\$222,000.00
4A	1	Lot	Specialty Consulting Services: Archaeologist	\$71,600.00	\$71,600.00
4B	1	Lot	Specialty Consulting Services: Arborist	\$10,700.00	\$10,700.00
4C	1	Lot	Specialty Consulting Services:SUE Engineer/ Surveyor/Civil Engineer	\$119,000.00	\$119,000.00
4D	1	Lot	Special Inspection Services (soils, concrete, anchors)	\$106,000.00	\$106,000.00
4E	1	Lot	Asphalt testing Agency	\$2,850.00	\$2,850.00
5	1	Lot	Project Cleanup, Punchlist, Demobilization, Closeout	\$88,100.00	\$88,100.00
6	1	Lot	General Demolition: Remove & dispose of existing items as required to clear areas for new construction, in accordance with contract documents (including, but not limited to transclosure, bollards, concrete pads, rubbish & debris, etc.)	\$10,000.00	\$10,000.00
Subtotal General					\$1,775,173.50
CIVIL WORK					
7			Duct Banks: Including roadway/driveway cutting, excavation, PVC conduits, spacers, elbows, couplings, pull lines, warning tape, concrete envelope (where required per section details), Control Density Fill, roadway patching		
7-A	2,373	Linear Feet	Duct Bank Section A-A: 3-4" PVC in CDF (Refer to Drawing 104 for Duct Bank Details)	\$250.00	\$593,250.00
7-B	671	Linear Feet	Duct Bank Section B-B: 4-4" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)	\$305.00	\$204,655.00
7-C	925	Linear Feet	Duct Bank Section C-C: 2-4" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)	\$230.00	\$212,750.00
7-D	477	Linear Feet	Duct Bank Section D-D: 5-4" PVC in CDF- Refer to E-104 for Duct Bank Details	\$370.00	\$176,490.00
7-E	183	Linear Feet	Duct Bank Section E-E: 6-4" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)	\$380.00	\$69,540.00
7-F	0	Linear Feet	Duct Bank Section F-F: 3-4", 1-2" PVC in CDF (Refer to Drawing 104 for Duct Bank Details)	\$0.00	\$0.00
7-J	591	Linear Feet	Duct Bank Section J-J: 1-2" PVC (DIRECT BURIAL) (Refer to Drawing E-104 for Duct Bank Details)	\$160.00	\$94,560.00
7-K	31	Linear Feet	Duct Bank Section K-K: 4-4", 1-2" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)	\$400.00	\$12,400.00
7-L	887	Linear Feet	Duct Bank Section L-L: 1-4" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)	\$220.00	\$195,140.00
7-M	220	Linear Feet	Duct Bank Section M-M: 2-6",1-4" PVC in Concrete/CDF (Refer to Drawing E-104 for Duct Bank Details)	\$500.00	\$110,000.00
7-O	34	Linear Feet	Duct Bank Section O-O: 4-6",3-4",2-2" PVC in Concrete/CDF (Refer to Drawing E-104 for Duct Bank Details)	\$650.00	\$22,100.00
7-P	24	Linear Feet	Duct Bank Section P-P: 1-4",2-2" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)	\$300.00	\$7,200.00
7-Q	58	Linear Feet	Duct Bank Section Q-Q: 2-2" PVC (DIRECT BURIAL) (Refer to Drawing 104 for Duct Bank Details)	\$240.00	\$13,920.00

Item	Quantity	Unit	Description	Unit Cost	Total Cost
7-S	47	Linear Feet	Duct Bank Section S-S: 3'-4" in Concrete Envelope with rebar (Culvert Crossing)	\$720.00	\$33,840.00
7-U	51	Linear Feet	Duct Bank Section U-U: 4'-6", 4'-4" PVC in Concrete/CDF (Refer to Drawing E-104 for Duct Bank Details)	\$730.00	\$37,230.00
7-V	20	Linear Feet	Duct Bank Section V-V: 8'-4" PVC in Concrete/CDF (Refer to Drawing E-104 for Duct Bank Details)	\$500.00	\$10,000.00
7-SL	3,500	Linear Feet	1'-1" PVC (direct burial) for street lights	\$170.00	\$595,000.00
8-A	8	Each	6'W x 6'L x 6'-0'D Electric Manhole: Including roadway/sidewalk cutting, excavation, concrete forms (if cast in place), delivery & storage (if precast), concrete, rebar, back fill, heavy duty frame & cover	\$33,000.00	\$264,000.00
8-B	8	Each	4'W x 4'L x 4'D Communications Handhole: Including excavation, concrete forms (if cast in place), delivery & storage (if precast), concrete, rebar, back fill, heavy duty frame & cover	\$23,600.00	\$188,800.00
8-C	5	Each	Furnish & Install Polymer Primary Handhole (24" x 36" x 24")	\$11,100.00	\$55,500.00
8-D	7	Each	Furnish & Install Polymer Secondary/COMMS. Handhole (24"x24"x24")	\$9,840.00	\$68,880.00
9-A	1	Each	Switchgear Pad(4 way gear) 8'-3"L X 6'-0" W X 2'-0" thick	\$9,930.00	\$9,930.00
9-B	1	Each	Switchgear Pad(5 way gear) 9'-11"L X 6'-0" W X 2'-0" thick	\$11,000.00	\$11,000.00
9-C	6	Each	Lateral Feeder Sectionalizing Cabinet Pad (elevated in flood zone)	\$8,000.00	\$48,000.00
9-D	5	Each	Three Phase Transformer Pad (elevated in flood zone)	\$9,270.00	\$46,350.00
9-E	3	Each	Single Phase Transformer Pad (elevated in flood zone)	\$6,440.00	\$19,320.00
9-F	1	Each	Single Phase Transformer Pad (standard)	\$7,000.00	\$7,000.00
9-G	1	Each	Primary Metering Cabinet Pad (elevated in flood zone)	\$8,330.00	\$8,330.00
9-H	2	Each	Primary Metering Cabinet Pad (standard)	\$5,400.00	\$10,800.00
9-I	39	Each	Protective Bollards	\$1,420.00	\$55,380.00
10-A	1	Lump Sum	Primary riser pole (main feeder) civil work including Rigid Aluminum conduits, concrete encasement, and support brackets, per detail on dwg. #E-100	\$20,000.00	\$20,000.00
10-B	3	Each	Secondary riser pole civil work including PVC cable sleeve, detail on dwg. E-100	\$23,300.00	\$69,900.00
10-C	1	Lump Sum	Break into existing manhole #018621 at Nisky Lane and Subase Road (Duct Bank D-D and O-O). This work to be performed outside of normal working hours.	\$13,200.00	\$13,200.00
10-D	1	Lump Sum	Break into existing manhole #010629 at Harwood Highway and Gasvaerks Gade (Duct Bank U-U). This work to be performed outside of normal working hours.	\$13,200.00	\$13,200.00
10-E	9	Each	Intercept existing primary conduits to refeed existing pad mounted transformer. This work to be performed outside of normal working hours.	\$11,000.00	\$99,000.00
10-F	1	Lump Sum	Intercept existing primary conduits to refeed existing pad mounted primary load interrupter switchgear on Crown Bay Road. This work to be performed outside of normal working hours.	\$11,000.00	\$11,000.00
11-A	60	Linear feet	Cut & repair concrete curbs (per detail on Dwg. #G-101)	\$410.00	\$24,600.00
11-B	60	Linear Feet	Cut & repair sidewalks (per detail on Dwg. #G-101)	\$530.00	\$31,800.00
11-C	28,875	Square Feet	Concrete pavement replacement on public roadway (per detail on Dwg. #G-101)	\$41.00	\$1,183,875.00
11-D	7,558	Square Feet	Concrete and Bituminous Pavement Replacement on public roadway (per detail on Dwg. #G-101)	\$46.00	\$347,668.00
11-E	3,590	Square Feet	Bituminous Pavement Replacement on public roadway (per detail on Dwg. #G-101)	\$12.00	\$43,080.00
11-F	1,164	Square Feet	Concrete Pavement Patching on private road/drive (per detail on Dwg. #G-101)	\$230.00	\$267,720.00
12	600	Cubic Yard	Rock Excavation: (allowance)	\$380.00	\$228,000.00
13	1	Each	Electric manhole evaluation of existing conditions and associated repairs or modifications required (per Dwg. #G-100)	\$8,654.00	\$8,654.00
Subtotal Civil					\$5,543,062.00

Item	Quantity	Unit	Description	Unit Cost	Total Cost
ELECTRICAL WORK					
13-A	3	Each	Receive, transport, rig & Install pad mounted switchgear (terminations are included under a separate line item)	\$28,000.00	\$84,000.00
13-B	6	Each	Furnish, transport, rig & install, pad mounted lateral feeder Sectionalizing Cabinet (junctions & terminations are included under separate line items)	\$24,700.00	\$148,200.00
13-C	2	Each	Receive, transport, rig and install 1 phase, 25kVA transformer (terminations are included under a separate line item)	\$17,600.00	\$35,200.00
13-D	1	Each	Receive, transport, rig and install 1 phase, 50kVA transformer (terminations are included under a separate line item)	\$19,800.00	\$19,800.00
13-E	1	Each	Receive, transport, rig and install 1 phase, 75kVA transformer (terminations are included under a separate line item)	\$19,800.00	\$19,800.00
13-F	1	Each	Receive, transport, rig and install 3 phase, 75kVA transformer (terminations are included under a separate line item)	\$20,600.00	\$20,600.00
13-G	2	Each	Receive, transport, rig and install 3 phase, 225kVA transformer (terminations are included under a separate line item)	\$23,500.00	\$47,000.00
13-H	1	Each	Receive, transport, rig and install 3 phase, 300kVA transformer (terminations are included under a separate line item)	\$28,900.00	\$28,900.00
13-I	2	Each	Receive, transport, rig and install 3 phase, 500kVA transformer (terminations are included under a separate line item)	\$25,000.00	\$50,000.00
13-J	3	Each	Furnish, transport, rig & install, & connect, primary pad mounted Metering Cabinet, including CT's and PT's and instrumentation wiring	\$51,500.00	\$154,500.00
13-K	3	Each	Furnish & Install above ground primary pedestal / pull box	\$2,000.00	\$6,000.00
14-A	8	Each	Furnish & install grounding & bonding in electric manholes per detail on dwg. #E-101	\$3,570.00	\$28,560.00
14-B	3	Each	Furnish & install grounding & bonding for pad mounted switchgear per detail on dwg. #E-104	\$14,500.00	\$43,500.00
14-C	6	Each	Furnish & install grounding & bonding for pad mounted sectionalizing cabinet per detail on dwg. #E-104	\$5,660.00	\$33,960.00
14-D	6	Each	Furnish & install grounding & bonding for 3 phase pad mounted transformer per detail on dwg. #E-105	\$4,540.00	\$27,240.00
14-E	4	Each	Furnish & install grounding & bonding for 1 phase pad mounted transformer per detail on dwg. #E-104	\$4,250.00	\$17,000.00
14-F	3	Each	Furnish & install grounding & bonding for primary metering switchgear per detail on dwg. #E-105	\$9,600.00	\$28,800.00
14-G	1	Each	Furnish & install grounding & bonding for 3 phase Primary Riser Pole per detail on Drawing #E-100	\$7,110.00	\$7,110.00
14-H	3	Each	Furnish & install grounding & bonding for Secondary Riser Pole per detail on Drawing #E-100	\$3,460.00	\$10,380.00
15-A	47,285	Linear Feet	Receive, pull / install medium voltage main feeder 9A cable (3-1/C #750 kcmil), Tag 1 on dwg. #E-201, termination of cable to be included under cable termination category	\$27.00	\$1,276,695.00
15-B	21,796	Linear Feet	Receive, pull / install 3 phase medium voltage feeder cable (1/C #1/0) tag 2 on dwg. #E-400, termination of cable to be included under cable termination category	\$25.00	\$544,900.00
15-C	255	Linear Feet	Receive, pull / install 1 phase medium voltage feeder cable (1/C #1/0) tag 3 on dwg. #E-400, termination of cable to be included under cable termination category	\$81.00	\$20,655.00
16-A	9	Each	Furnish & Install 15kV Cold Shrink Splices for #1/0 AWG Cable Tag 1A on dwg. #E-400)	\$7,200.00	\$64,800.00
16-B	9	Each	Furnish & Install 15kV Cold Shrink Splices for #750 kcmil Cable Tag 1B on dwg. #E-400)	\$10,700.00	\$96,300.00
16-C	151	Each	Furnish & Install 200A, 15kV Elbows (Tag 2A on dwg. #E-400)	\$1,060.00	\$160,060.00
16-D	0	Each	Furnish & Install 200A, 15kV, fused load break Elbows, with fuses (Tag 3A on dwg. #E-400). Refer to one line diagram for all fuse sizes.	\$0.00	\$0.00

Item	Quantity	Unit	Description	Unit Cost	Total Cost
16-E	214	Each	Furnish & install Cable Fault Indicators (Tag 4 on dwg. #E-400)	\$1,030.00	\$220,420.00
16-F	76	Each	Furnish & install Deadbreak Elbows, 600A, 15/25kV (Tag 5 on dwg. #E-400)	\$2,390.00	\$181,640.00
16-G	12	Each	Furnish & install 15KV Reducing Tap Plug (Tag 6A on dwg. #E-400)	\$1,760.00	\$21,120.00
16-H	34	Each	Furnish & Install 18kV elbow type Surge Arresters (Tag 7A on dwg. #E-400)	\$1,750.00	\$59,500.00
16-I	13	Each	Furnish & Install Load Break Feed Thru Inserts (Tag 8A on dwg. #E-400)	\$2,330.00	\$30,290.00
16-J	6	Each	Furnish & install outdoor termination kits., with support brackets, for #1/0 awg MV Cable (Tag 10A on dwg. #E-400)	\$3,250.00	\$19,500.00
16-K	6	Each	Furnish & install outdoor termination kits., with support brackets, for #750 kcmil MV Cable (Tag 10B on dwg. #E-400)	\$4,540.00	\$27,240.00
16-L	18	Each	Furnish & install 4 point, 200A junction (Tag 11B on dwg. #E-400)	\$3,730.00	\$67,140.00
16-L	48	Each	Furnish & install 4 point, 600A variable junction (Tag 11D on dwg. #E-400)	\$5,500.00	\$264,000.00
16-M	8	Each	Furnish & install 15kV Insulating Cap for 200A Bushings (Tag 12A on dwg. #E-400)	\$1,490.00	\$11,920.00
16-M	24	Each	Furnish & install 15kV Insulating Cap for 600A Bushings (Tag 13 on dwg. #E-400)	\$1,410.00	\$33,840.00
16-N	3	Each	Furnish & install 15kV modular splice kit for #1/0 AWG cable (Tag 14 on dwg. #E-400) complete with T-Body, Insulating Plugs, Tap Plugs, Connection Plugs, cable adapters and compression lugs	\$8,600.00	\$25,800.00
16-O	1	Lot	10% additional MV cable accessories (line item 16A thru 16N) with a minimum of 1 additional accessory.	\$52,700.00	\$52,700.00
16-P	8	Each MH	Furnish & install manhole accessories for per bill of material on Dwg. E-100	\$13,300.00	\$106,400.00
17-A	1400	Linear Feet	Furnish & install #600 kcmil cu, 600 volt conductor (secondary)	\$51.00	\$71,400.00
17-B	4220	Linear Feet	Furnish & install #500 kcmil cu, 600 volt conductor (secondary)	\$46.00	\$194,120.00
17-C	300	Linear Feet	Furnish & install #250 kcmil cu, 600 volt conductor (secondary)	\$36.00	\$10,800.00
17-D	810	Linear Feet	Furnish & install #3/0 cu, 600 volt conductor (secondary)	\$33.00	\$26,730.00
17-E	450	Linear Feet	Furnish & install #1/0 cu, 600 volt conductor (secondary)	\$23.00	\$10,350.00
17-F	1,450	Linear Feet	Furnish & install #2 cu, 600 volt conductor (secondary)	\$20.00	\$29,000.00
17-G	11,550	Linear Feet	Furnish & install #8 cu, 600 volt conductor (from transformers for street lights)	\$5.00	\$57,750.00
17-H	18	Each	Secondary lugs / Terminations (1 phase) at transformer, meter/disconnect	\$4,500.00	\$81,000.00
17-I	48	Each	Secondary lugs / Terminations (3 phase) at transformer, meter/disconnect	\$3,500.00	\$168,000.00
17-J	1	Lot	Insulated/weatherproof multi tap connectors in secondary handholes	\$9,960.00	\$9,960.00
17-K	8	Each	Furnish & install street light fixture, pole, arm, foundation, fuses, and grounding/bonding per street light fixture detail on dwg. #E-100	\$10,500.00	\$84,000.00
17-L	3	Each	Fiber/Scada for Pad Mounted Switchgear	\$2,510.00	\$7,530.00
18-A	47,285	Linear Feet	Electrical Acceptance Testing for #750 kcmil , 15kV cable	\$7.00	\$330,995.00
18-B	22,051	Linear Feet	Electrical Acceptance Testing for #1/0, 15kV cable	\$4.50	\$99,229.50
18-C	20,180	Linear Feet	Electrical Acceptance Testing for 600 volt conductors	\$3.50	\$70,630.00
18-D	3	Each	Electrical Acceptance Testing for Pad Mounted Switchgear	\$9,000.00	\$27,000.00
18-E	16	Each	Electrical Acceptance Testing for pad mounted transformers and primary metering cabinet	\$4,800.00	\$76,800.00
19	1	Lot	Electrical Demolition: De-energize, disconnect, remove & dispose of existing electrical equipment as required to clear areas for new construction, in accordance with contract documents (including, but not limited to conduits, pad mounted transformers, MV cable, MV terminations, etc.)	\$116,000.00	\$116,000.00
Subtotal Electrical					\$5,566,764.50
TOTAL LUMP SUM CONSTRUCTION BID					\$12,885,000.00