

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		
1B	1	Lot	Bonding: Bid Guarantee, Performance Bond, Payment Bond		
2	1	Lot	Construction Impact Mitigation including Stormwater / Sediment & Erosion Control, Dust Control, Dewatering, Noise Control, Vibration Control, Landscaping & Brush / Tree Removal & Protection		
3A	1	Lot	Traffic Control/Traffic Control Devices/Road Closure Permits		
3B	1	Lot	Traffic Control/Traffic Control Devices/Road Closure Permits (cable only areas)		
4A	1	Lot	Specialty Consulting Services: Archaeologist		
4B	1	Lot	Specialty Consulting Services: Arborist		
4C	1	Lot	Specialty Consulting Services:SUE Engineer/ Surveyor/Civil Engineer		
4D	1	Lot	Special Inspection Services (soils, concrete, anchors)		
4E	1	Lot	Asphalt testing Agency		
5	1	Lot	Project Cleanup, Punchlist, Demobilization, Closeout		
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.)		
Subtotal General					
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)		
7-B	671	Linear Feet	Duct Bank Section B-B: 4-4" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)		
7-C	925	Linear Feet	Duct Bank Section C-C: 2-4" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)		
7-D	477	Linear Feet	Duct Bank Section D-D: 5-4" PVC in CDF- Refer to E-104 for Duct Bank Details		
7-E	183	Linear Feet	Duct Bank Section E-E: 6-4" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)		
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)		
7-J	591	Linear Feet	Duct Bank Section J-J: 1-2" PVC (DIRECT BURIAL) (Refer to Drawing E-104 for Duct Bank Details)		
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)		
7-L	887	Linear Feet	Duct Bank Section L-L: 1-4" PVC in CDF (Refer to Drawing E-104 for Duct Bank Details)		
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)		
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)		
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)		
7-Q	58	Linear Feet	Duct Bank Section Q-Q: 2-2" PVC (DIRECT BURIAL) (Refer to Drawing 104 for Duct Bank Details)		

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)		
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)		
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)		
7-SL	3,500	Linear Feet	1-1" PVC (direct burial) for street lights		
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		
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		
8-C	5	Each	Furnish & Install Polymer Primary Handhole (24" x 36" x 24")		
8-D	7	Each	Furnish & Install Polymer Secondary/COMMS. Handhole (24"x24"x24")		
9-A	1	Each	Switchgear Pad(4 way gear) 8'-3"L X 6'-0" W X 2'-0" thick		
9-B	1	Each	Switchgear Pad(5 way gear) 9'-11"L X 6'-0" W X 2'-0" thick		
9-C	6	Each	Lateral Feeder Sectionalizing Cabinet Pad (elevated in flood zone)		
9-D	5	Each	Three Phase Transformer Pad (elevated in flood zone)		
9-E	3	Each	Single Phase Transformer Pad (elevated in flood zone)		
9-F	1	Each	Single Phase Transformer Pad (standard)		
9-G	1	Each	Primary Metering Cabinet Pad (elevated in flood zone)		
9-H	2	Each	Primary Metering Cabinet Pad (standard)		
9-I	39	Each	Protective Bollards		
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		
10-B	3	Each	Secondary riser pole civil work including PVC cable sleeve, detail on dwg. E-100		
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.		
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.		
10-E	9	Each	Intercept existing primary conduits to refeed existing pad mounted transformer. This work to be performed outside of normal working hours.		
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-A	60	Linear feet	Cut & repair concrete curbs (per detail on Dwg. #G-101)		
11-B	60	Linear Feet	Cut & repair sidewalks (per detail on Dwg. #G-101)		
11-C	28,875	Square Feet	Concrete pavement replacement on public roadway (per detail on Dwg. #G-101)		
11-D	7,558	Square Feet	Concrete and Bituminous Pavement Replacement on public roadway (per detail on Dwg. #G-101)		
11-E	3,590	Square Feet	Bituminous Pavement Replacement on public roadway (per detail on Dwg. #G-101)		
11-F	1,164	Square Feet	Concrete Pavement Patching on private road/drive (per detail on Dwg. #G-101)		
12	600	Cubic Yard	Rock Excavation: (allowance)		
13	1	Each	Electric manhole evaluation of existing conditions and associated repairs or modifications required (per Dwg. #G-100)		
Subtotal Civil					

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)		
13-B	6	Each	Furnish, transport, rig & install, pad mounted lateral feeder Sectionalizing Cabinet (junctions & terminations are included under separate line items)		
13-C	2	Each	Receive, transport, rig and install 1 phase, 25kVA transformer (terminations are included under a separate line item)		
13-D	1	Each	Receive, transport, rig and install 1 phase, 50kVA transformer (terminations are included under a separate line item)		
13-E	1	Each	Receive, transport, rig and install 1 phase, 75kVA transformer (terminations are included under a separate line item)		
13-F	1	Each	Receive, transport, rig and install 3 phase, 75kVA transformer (terminations are included under a separate line item)		
13-G	2	Each	Receive, transport, rig and install 3 phase, 225kVA transformer (terminations are included under a separate line item)		
13-H	1	Each	Receive, transport, rig and install 3 phase, 300kVA transformer (terminations are included under a separate line item)		
13-I	2	Each	Receive, transport, rig and install 3 phase, 500kVA transformer (terminations are included under a separate line item)		
13-J	3	Each	Furnish, transport, rig & install, & connect, primary pad mounted Metering Cabinet, including CT's and PT's and instrumentation wiring		
13-K	3	Each	Furnish & Install above ground primary pedestal / pull box		
14-A	8	Each	Furnish & install grounding & bonding in electric manholes per detail on dwg. #E-101		
14-B	3	Each	Furnish & install grounding & bonding for pad mounted switchgear per detail on dwg. #E-104		
14-C	6	Each	Furnish & install grounding & bonding for pad mounted sectionalizing cabinet per detail on dwg. #E-104		
14-D	6	Each	Furnish & install grounding & bonding for 3 phase pad mounted transformer per detail on dwg. #E-105		
14-E	4	Each	Furnish & install grounding & bonding for 1 phase pad mounted transformer per detail on dwg. #E-104		
14-F	3	Each	Furnish & install grounding & bonding for primary metering switchgear per detail on dwg. #E-105		
14-G	1	Each	Furnish & install grounding & bonding for 3 phase Primary Riser Pole per detail on Drawing #E-100		
14-H	3	Each	Furnish & install grounding & bonding for Secondary Riser Pole per detail on Drawing #E-100		
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		
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		
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		
16-A	9	Each	Furnish & Install 15kV Cold Shrink Splices for #1/0 AWG Cable Tag 1A on dwg. #E-400)		
16-B	9	Each	Furnish & Install 15kV Cold Shrink Splices for #750 kcmil Cable Tag 1B on dwg. #E-400)		
16-C	151	Each	Furnish & Install 200A, 15kV Elbows (Tag 2A on dwg. #E-400)		
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.		

Item	Quantity	Unit	Description	Unit Cost	Total Cost
16-E	214	Each	Furnish & install Cable Fault Indicators (Tag 4 on dwg. #E-400)		
16-F	76	Each	Furnish & install Deadbreak Elbows, 600A, 15/25kV (Tag 5 on dwg. #E-400)		
16-G	12	Each	Furnish & install 15KV Reducing Tap Plug (Tag 6A on dwg. #E-400)		
16-H	34	Each	Furnish & Install 18kV elbow type Surge Arresters (Tag 7A on dwg. #E-400)		
16-I	13	Each	Furnish & Install Load Break Feed Thru Inserts (Tag 8A on dwg. #E-400)		
16-J	6	Each	Furnish & install outdoor termination kits., with support brackets, for #1/0 awg MV Cable (Tag 10A on dwg. #E-400)		
16-K	6	Each	Furnish & install outdoor termination kits., with support brackets, for #750 kcmil MV Cable (Tag 10B on dwg. #E-400)		
16-L	18	Each	Furnish & install 4 point, 200A junction (Tag 11B on dwg. #E-400)		
16-L	48	Each	Furnish & install 4 point, 600A variable junction (Tag 11D on dwg. #E-400)		
16-M	8	Each	Furnish & install 15kV Insulating Cap for 200A Bushings (Tag 12A on dwg. #E- 400)		
16-M	24	Each	Furnish & install 15kV Insulating Cap for 600A Bushings (Tag 13 on dwg. #E- 400)		
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, Insulatng Plugs, Tap Plugs, Connection Plugs, cable adapters and compression lugs		
16-O	1	Lot	10% additional MV cable accessories (line item 16A thru 16N) with a minimum of 1 additional accessory.		
16-P	8	Each MH	Furnish & install manhole accessories for per bill of material on Dwg. E-100		
17-A	1400	Linear Feet	Furnish & install #600 kcmil cu, 600 volt conductor (secondary)		
17-B	4220	Linear Feet	Furnish & install #500 kcmil cu, 600 volt conductor (secondary)		
17-C	300	Linear Feet	Furnish & install #250 kcmil cu, 600 volt conductor (secondary)		
17-D	810	Linear Feet	Furnish & install #3/0 cu, 600 volt conductor (secondary)		
17-E	450	Linear Feet	Furnish & install #1/0 cu, 600 volt conductor (secondary)		
17-F	1,450	Linear Feet	Furnish & install #2 cu, 600 volt conductor (secondary)		
17-G	11,550	Linear Feet	Furnish & install #8 cu, 600 volt conductor (from transformers for street lights)		
17-H	18	Each	Secondary lugs / Terminations (1 phase) at transformer, meter/disconnect		
17-I	48	Each	Secondary lugs / Terminations (3 phase) at transformer, meter/disconnect		
17-J	1	Lot	Insulated/weatherproof multi tap connectors in secondary handholes		
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		
17-L	3	Each	Fiber/Scada for Pad Mounted Switchgear		
18-A	47,285	Linear Feet	Electrical Acceptance Testing for #750 kcmil , 15kV cable		
18-B	22,051	Linear Feet	Electrical Acceptance Testing for #1/0, 15kV cable		
18-C	20,180	Linear Feet	Electrical Acceptance Testing for 600 volt conductors		
18-D	3	Each	Electrical Acceptance Testing for Pad Mounted Switchgear		
18-E	16	Each	Electrical Acceptance Testing for pad mounted transformers and primary metering cabinet		
19	1	Lot	electrical demolition: De-energize, disconnect, remove & dispose of existing electrical equipment as required to clear areas for new construction in		
Subtotal Electrical					
TOTAL LUMP SUM CONSTRUCTION BID					