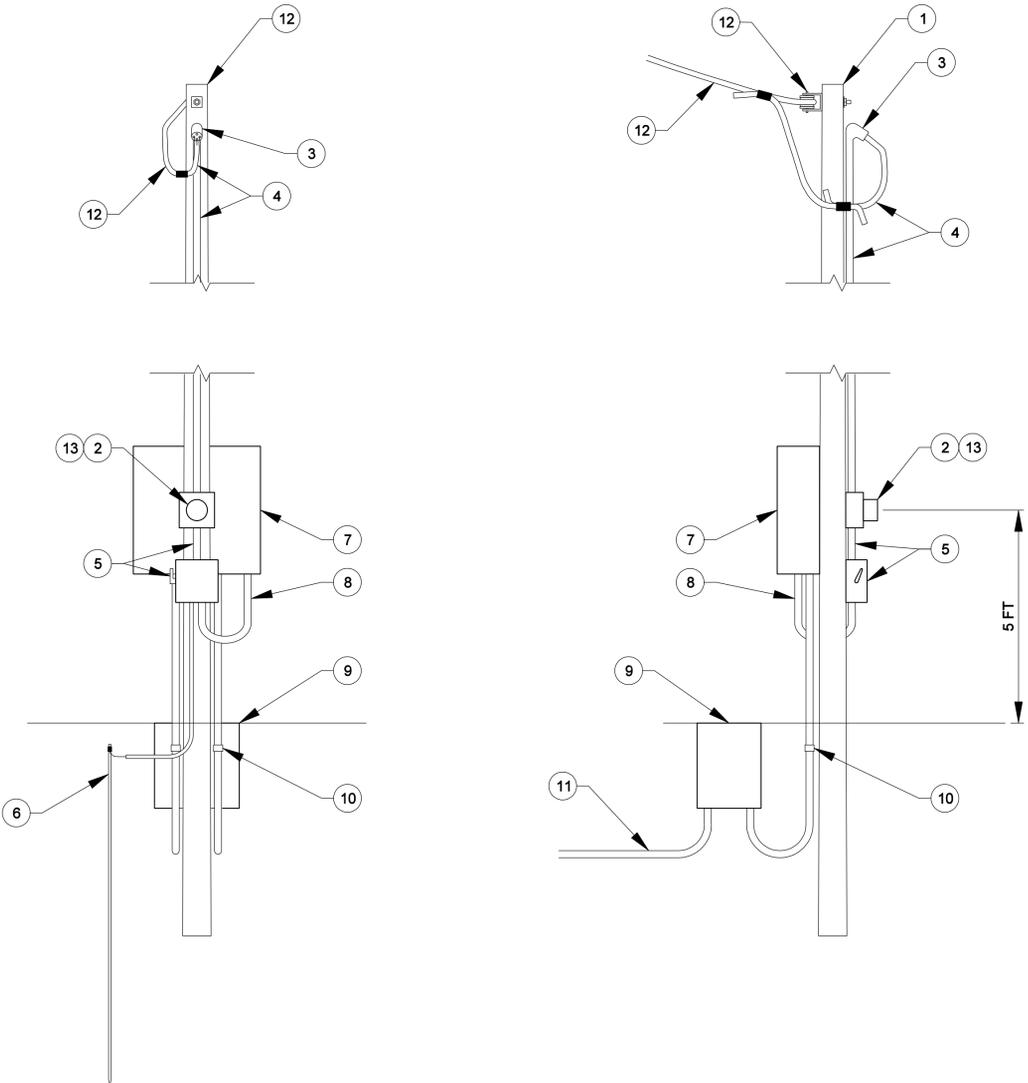


ELECTRICAL SERVICE GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL SERVICE EQUIPMENT AND MATERIALS FOR ROADWAY LIGHTING INSTALLATIONS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING SECTIONS 920 (LIGHTING STANDARDS AND TOWERS), 921 (LUMINAIRES, 922 (ELECTRICAL WIRE AND CABLE), 923 (ELECTRICAL CONDUIT), AND 924 (MISCELLANEOUS ELECTRICAL MATERIALS), THE PLANS, AND THE GEORGIA SPECIFICATIONS. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND ANY REQUIREMENTS OF THE UTILITY POLE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH UTILITY POLE OWNERS AND THE ELECTRICAL SERVICE PROVIDER.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW GROUND ROD AND CONDUCTOR ASSEMBLIES AT ALL ELECTRICAL SERVICE ASSEMBLIES FOR ROADWAY LIGHTING ON NEW AND EXISTING POLES. GROUNDING TO EXISTING GROUND RODS AT EXISTING POLES IS NOT PERMITTED EXCEPT WHEN REQUIRED BY THE POLE OWNER. WHEN TYING TO EXISTING GROUND RODS, THE NEW SERVICE DISCONNECT GROUND CONDUCTOR SHALL BE ATTACHED TO THE NEW GROUND ROD FIRST, THEN ROUTED TO THE EXISTING GROUND ROD. GROUND RODS SHALL BE MINIMUM 10 FEET IN LENGTH, RESISTANCE TO GROUND FROM THE GROUND CONDUCTOR CLAMP SHALL BE MEASURED WITH A THREE-POINT EARTH GROUND TEST MEGGER IN THE PRESENCE OF THE ENGINEER. MAXIMUM RESISTANCE TO GROUND AS TESTED SHALL BE 10 OHMS.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL SERVICE ASSEMBLIES, INCLUDING ALL MATERIALS SUCH AS CONDUIT, SERVICE CONDUCTORS, DISCONNECT BREAKER, SURGE ARRESTOR, ETC.
4. ALL ABOVE GROUND ELECTRICAL SERVICE CONDUIT SHALL BE GALVANIZED RIGID STEEL, EXCEPT FOR THE CONNECTION BETWEEN THE METER BASE AND THE MAIN DISCONNECT SWITCH, WHICH SHALL BE JACKETED FLEXIBLE STEEL (SEE INSTALLATION NOTES BELOW). ALL ELECTRICAL SERVICE CONDUIT BODIES SUCH AS LBS AND COUPLINGS, SHALL BE GALVANIZED RIGID STEEL OR ALUMINUM. RISER CONDUIT BENDS, INCLUDING INTO THE BASE OF THE DISCONNECT HOUSING, SHALL BE MADE ONLY BY LB OR SIMILAR CONDUIT BODIES. STREET ELBOWS AND SWEEPS ARE NOT PERMITTED. ALL UNDERGROUND ELECTRICAL SERVICE CONDUIT SHALL BE SCHEDULE 40 PVC.

OVERHEAD SERVICE POLE INSTALLATION NOTES

1. THE CONTRACTOR SHALL INSTALL A 30 FT CLASS 6 CCA-TREATED OR PENTA-TREATED WOOD POLE. THE POLE SHALL BE BURIED TO A DEPTH OF 5 FEET. THE POLE SHALL HAVE A #8 AWG BARE GROUND WIRE RUN FROM THE POLE BASE TO THE TOP.
2. THE CONTRACTOR SHALL INSTALL A METER BASE WHICH HE SHALL OBTAIN FROM THE ELECTRIC UTILITY.
3. THE CONTRACTOR SHALL INSTALL A WEATHERHEAD 12 INCHES FROM THE POLE TOP.
4. THE CONTRACTOR SHALL INSTALL A 1-1/2 INCH RGS CONDUIT FROM THE WEATHER-HEAD TO THE TOP OF THE METER BASE. THE CONTRACTOR SHALL INSTALL 3#6 AWG THHN COPPER CONDUCTORS FROM THE METER BASE, EXTENDING OUT OF THE WEATHERHEAD LEAVING 18 INCHES (MINIMUM) OF CONDUCTOR FOR THE PIGTAIL.
5. THE CONTRACTOR SHALL INSTALL A WEATHERPROOF DISCONNECT SWITCH BELOW THE METER BASE AND 1-1/2 INCH RGS WITH 3#6 AWG THHN COPPER CONDUCTORS CONNECTING THE TWO DEVICES.
6. THE CONTRACTOR SHALL INSTALL GROUND PROTECTION PER THE GROUNDING DETAIL.
7. THE CONTRACTOR SHALL INSTALL AN ALUMINUM OR STAINLESS STEEL NEMA 3R CABINET ON THE OPPOSITE SIDE OF THE POLE FROM THE METER BASE AND MAIN DISCONNECT. THE SIZE OF THE CABINET SHALL BE DETERMINED BY THE NUMBER OF CIRCUITS AT EACH SERVICE POINT. SEE WIRING & SINGLE LINE DIAGRAMS.
8. THE CONTRACTOR SHALL INSTALL A 1-1/2 INCH I.D. FLEXIBLE STEEL CONDUIT FROM THE BOTTOM OF THE MAIN DISCONNECT TO THE BOTTOM OF THE CABINET. THE CONDUIT SHALL HAVE A FLAME RETARDANT LIQUID-TIGHT PVC JACKET SIMILAR TO "LIQUATITE TYPE CBLA". THE CONDUIT SHALL CONTAIN 3#6 AWG THHN COPPER CONDUCTORS CONNECTING THE TWO DEVICES.
9. THE CONTRACTOR SHALL INSTALL A TYPE 4 PULLBOX AT THE BASE OF THE METER POLE FOR THE SERVICE CONDUCTORS.
10. THE CONTRACTOR SHALL INSTALL 1-1/2 INCH RGS CONDUITS FROM THE BOTTOM OF THE SERVICE CABINET TO A POINT 6 INCHES UNDERGROUND, THEN TRANSITION TO A 1-1/2 INCH SCHEDULE 40 PVC CONDUIT WHICH SHALL BE INSTALLED UNDERGROUND TO THE PULL BOX AT THE BASE OF THE METER POLE. THE NUMBER AND SIZE OF THE SERVICE CONDUITS SHALL DEPEND ON THE NUMBER OF CIRCUITS AND THE SIZE OF THE SERVICE CONDUCTORS. SEE PLAN SHEETS FOR CONDUCTOR SIZES.
11. THE CONTRACTOR SHALL INSTALL SCHEDULE 40 PVC CONDUIT FROM THE TYPE 4 PULL BOX TO THE LUMINAIRES. SEE PLAN SHEETS FOR SIZE OF CONDUIT AND NUMBER AND SIZE OF CONDUCTORS REQUIRED FOR EACH CIRCUIT.
12. THE ELECTRIC COMPANY SHALL INSTALL THE SERVICE DROP TO THE POLE AND MAKE THE CONNECTION BETWEEN THEIR SERVICE AND THE PIGTAIL PROVIDED BY THE CONTRACTOR.
13. THE UTILITY COMPANY SHALL INSTALL THE METER AND ENERGIZE THE SYSTEM.



ELECTRICAL POWER SERVICE ASSEMBLY,
AERIAL SERVICE POINT

NOT TO SCALE



GRESHAM
SMITH AND
PARTNERS

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

NOT TO SCALE

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROADWAY DESIGN

**OVERHEAD SERVICE
POINT DETAIL**

1-285 AT FLAT SHOALS RD.

DRAWING No.	25-034
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