

GENERAL NOTES

1. ALL LAMPS SHALL BE HIGH PRESSURE SODIUM UNLESS OTHERWISE NOTED.
2. OPERATING VOLTAGE SHALL BE 480 VOLTS UNLESS OTHERWISE SPECIFIED.
3. ALL BALLASTS SHALL BE REGULATOR TYPE.
4. REFRACTORS SHALL BE PRESSED PRISMATIC BOROSILICATE GLASS.
5. RIGID CONDUIT, INSTALLED ON STRUCTURES, SHALL BE SUPPORTED AT LEAST EVERY TEN FEET AND WITHIN THREE FEET OF JUNCTION BOXES, LUMINAIRES, ETC.
6. CONDUIT EXPANSION JOINTS OR PROPER LENGTHS OF WATERPROOF FLEXIBLE CONDUIT SHALL BE PROVIDED AT EACH BRIDGE EXPANSION JOINT AND WHEN GOING FROM BRIDGE SUPERSTRUCTURE TO SUBSTRUCTURE.
7. CONDUIT EXPANSION JOINTS SHALL BE PROVIDED IN WALLS AT EACH LOCATION WHERE CONDUIT PASSES THROUGH WALL EXPANSION JOINTS.
8. CONDUIT ACCESSORIES SUCH AS EXPANSION JOINTS, PULL BOXES, CONDULETS, ELBOWS, FLEXIBLE CONDUIT, ETC. SHALL BE INCLUDED IN THE BID PRICE FOR CONDUIT.
9. N/A
10. EACH SERVICE POINT SHALL BE EQUIPPED WITH A 650 VOLT - 2 POLE LIGHTNING ARRESTER. PAYMENT FOR LIGHTNING ARRESTER IS INCLUDED IN COST OF SERVICE POLE RISER.
11. THE CONTRACTOR SHALL PROVIDE THE SERVICE POLE, UNLESS OTHERWISE NOTED, SERVICE RISER, WEATHERHEAD, WEATHERPROOF ENCLOSURE, CIRCUIT BREAKER(S), LIGHTNING ARRESTER, AND THE NECESSARY WIRING FOR CONNECTION TO THE POWER SOURCE. CONTRACTOR SHALL PROVIDE LIGHTING CONTROLS PER SERVICE POINT WIRING DETAILS ON SHEET 31.03. PAYMENT FOR LIGHTING CONTROLS IS INCLUDED IN COST OF SERVICE POLE RISER. THE CONTRACTOR SHALL PAY FOR CONNECTION OF POWER TO SERVICE POLE.
12. A NOI WILL NOT BE REQUIRED FOR THIS PROJECT.
13. THE CONTRACTOR SHALL SUBMIT PHOTOMETRIC DATA AND DESIGN CALCULATIONS, FOR THE LUMINAIRES, TO VERIFY THE LIGHTING DESIGN CRITERIA.
 LIGHTING DESIGN CRITERIA:
 LIGHT LOSS FACTOR = 0.7
 WIND SPEED = 130 KM/H
 RAMPS A,B,C,D:
 AVERAGE MAINTAINED ILLUMINATION = 1.0 FC
 UNIFORMITY RATIO (AVG./MIN.) = 2:1
 KIA BOULEVARD/GABBETTVILLE ROAD:
 AVERAGE MAINTAINED ILLUMINATION = 0.7 FC
 UNIFORMITY RATIO (AVG./MIN.) = 3.7:1
 FIXTURE ANGLE OF TILT ABOVE HORIZONTAL = 45 DEGREES
 TRUCK ROAD:
 AVERAGE MAINTAINED ILLUMINATION = 0.6 FC
 UNIFORMITY RATIO (AVG./MIN.) = 3.1:1
 FIXTURE ANGLE OF TILT ABOVE HORIZONTAL = 18 DEGREES
 KIA PARKWAY:
 AVERAGE MAINTAINED ILLUMINATION = 0.6 FC
 UNIFORMITY RATIO (AVG./MIN.) = 5.6:1
 FIXTURE ANGLE OF TILT ABOVE HORIZONTAL = 45 DEGREES
14. THE LUMINAIRE MANUFACTURER(S) SHALL FURNISH A ONE YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON THE LUMINAIRES.
15. THE CONTRACTOR SHALL BE AWARE OF OVERHEAD POWER LINES AND LOCATE LIGHTING STANDARDS SUCH THAT THEY WILL HAVE 10 FEET MINIMUM CLEARANCE FROM DISTRIBUTION LINES OR 20 FEET MINIMUM CLEARANCE FROM TRANSMISSION LINES.
16. CONDUIT ON BRIDGES, WALLS, ETC., SHALL BE LOCATED WHERE IT IS NOT VISIBLE TO THE TRAVELING PUBLIC. ROUTE 2-INCH CONDUIT BELOW BRIDGES AT TOP OF SLOPE PAVING.
17. EXCAVATION TO BE INCLUDED IN THE OVERALL BID PRICE.
18. THE LOCATION OF EACH LIGHTING FIXTURE SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. IF MOVING FIXTURE LOCATION IS NECESSARY THE ENGINEER SHALL CONTACT GEORGE BOYD AT JORDAN, JONES & GOULDING, INC. AT 678-333-0326 FOR ANY REQUIRED CHANGES TO THE FIXTURE ANGLE OF TILT.
19. ALL 40-FOOT LIGHT STANDARDS SHALL BE MOUNTED ON BREAK AWAY SIGN SUPPORTS IF NOT LOCATED BEHIND NOISE WALLS OR GUARDRAIL.
20. BREAK AWAY FEATURE
 ALL CONVENTIONAL MOUNTING HEIGHT POLES SHALL BE MOUNTED ON A FRANGIBLE METAL BASE OR SYSTEM OF BREAK AWAY COUPLINGS. IF COUPLINGS ARE USED, ONE COUPLING SHALL BE PROVIDED FOR EACH ANCHOR BOLT CONNECTION. THE ONLY CONTINUOUS CONNECTION OF THE POLE TO THE FOUNDATION AT EACH ANCHOR BOLT SHALL BE PROVIDED BY THE COUPLINGS. THE AREA BETWEEN THE TOP OF THE POLE FOUNDATION AND THE BASE OF THE POLE INCLUDING THE COUPLINGS SHALL BE ENCLOSED WITH A NON-STRUCTURAL ALUMINUM SKIRT.
 IF A FRANGIBLE METAL BASE IS USED, IT SHALL BE ONE PIECE AND BE DESIGNED TO BREAK AWAY WITHOUT THE AID OF ANY SLIPPING OR SLIDING SURFACES.
 THE DESIGN OF THE BREAK AWAY FEATURE SHALL BE IN ACCORDANCE WITH THE BREAK AWAY PERFORMANCE REQUIREMENTS OF THE AASHTO 'STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS'. THE CONTRACTOR (SUPPLIER) SHALL SUBMIT COPIES OF TEST REPORTS AS EVIDENCE THE BREAK AWAY FEATURE MEETS THE ABOVE SPECIFICATIONS AND CALCULATIONS TO VERIFY THE DESIGN WILL MEET THE AASHTO WIND LOADING SPECIFIED IN THE CONTRACT PLANS. NO POLES ARE TO BE INSTALLED PRIOR TO APPROVAL SUBMITTAL DATA.
 ANY SUBSTANTIAL REMAINS OF A BREAK AWAY SUPPORT, WHEN IT IS BROKEN AWAY, SHOULD NOT PROJECT MORE THAN 4 INCHES AS DISCUSSED IN SECTION 7 OF THE ABOVE AASHTO SPECIFICATIONS, AND CHAPTER 4, SECTION 4.2 OF THE AASHTO 'ROADSIDE DESIGN GUIDE'. POLES BEHIND BRIDGE RAIL OR BARRIER WALL MOUNTED, SHALL BE NON-FRANGIBLE.
21. THE ATTENTION OF THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE UTILITY CONFLICTS SPECIFICATIONS REQUIRING PROTECTION OF UTILITY INSTALLATIONS WHICH MAY EXIST ON THE PROJECT. UNDERGROUND UTILITY LOCATIONS CAN BE OBTAINED BY CALLING THE UPC AT 1-800-282-7411 OR BY SECURING THE SERVICES OF ANY QUALIFIED UTILITY LOCATION ORGANIZATION. FAILURE BY SUCH ENTITY TO LOCATE ANY EXISTING UTILITY WILL NOT CONSTITUTE CAUSE FOR ADDITIONAL FEES. ALL UTILITY AND ATMS LOCATIONS, HORIZONTAL AND VERTICAL, ARE TO BE IDENTIFIED AT EACH LOCATION WHERE RIGID CONDUIT IS TO BE JACK AND BORED. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, ADJUST THE JACKING OR BORING LOCATION TO MINIMIZE UTILITY AND ATMS CONFLICTS
22. ALL UTILITY AND ATMS LOCATIONS, HORIZONTAL AND VERTICAL, ARE TO BE IDENTIFIED AT EACH LOCATION WHERE 2-INCH CONDUIT IS TO BE JACKED OR BORED. THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, ADJUST THE JACKING OR BORING LOCATION TO MINIMIZE UTILITY AND ATMS CONFLICTS.
23. 40-FOOT LIGHTING STANDARDS AND 100-FOOT LIGHTING TOWERS BEHIND GUARDRAIL SHALL BE SET NO CLOSER THAN 5 FEET FROM FACE OF GUARDRAIL TO EDGE OF STANDARD OR TOWER.
24. CONDUIT MAY HAVE TO PASS UNDER THE L/A FENCE IN SOME CIRCUMSTANCES. ANY REQUIRED TRENCHING UNDER THE FENCE IN THESE CIRCUMSTANCES IS INCLUDED IN COST OF GRADING COMPLETE.
25. CONDUIT MAY HAVE TO CROSS STONE GROUTED RIP-RAP NEAR DRAINAGE OUTFALLS IN SOME CIRCUMSTANCES. ANY REQUIRED REMOVAL AND REPLACEMENT OF RIP-RAP IN THESE CIRCUMSTANCES IS INCLUDED IN COST OF GRADING COMPLETE.
26. STEEL CASING - USE STEEL CASING FOR THE FULL LENGTH OF DRILLED SHAFT DUE TO THE PRESENCE OF GROUNDWATER AND LOOSE MATERIALS. USE WATER PUMP OR OTHER DEWATERING DEVICE WHERE LOCAL GROUNDWATER LEVELS ARE ABOVE THE BOTTOM OF CAISSON. INCLUDE THE COST OF EXCAVATION AND DEWATERING IN BID PRICE.



Dig | Safely.
 1-800-282-7411
 770-623-4344

UTILITY LEGEND

EXISTING OVERHEAD ELECTRIC POWER	---W---
TEMPORARY OVERHEAD ELECTRIC POWER	---W---TOE-
PROPOSED OVERHEAD ELECTRIC POWER	---E---
EXISTING UNDERGROUND ELECTRIC POWER	----E----
PROPOSED UNDERGROUND ELECTRIC POWER	---E---
EXISTING OVERHEAD TELEPHONE	---T---
TEMPORARY OVERHEAD TELEPHONE	---T---TOT-
PROPOSED OVERHEAD TELEPHONE	---T---
EXISTING UNDERGROUND TELEPHONE	---T---
PROPOSED UNDERGROUND TELEPHONE	---T---
EXISTING GAS MAIN	---G---
TEMPORARY GAS MAIN	---TG---
PROPOSED GAS MAIN	---G---
EXISTING WATER MAIN	---W---
TEMPORARY WATER MAIN	---TW---
PROPOSED WATER MAIN	---W---
EXISTING OVERHEAD TELEVISION	---TV---
TEMPORARY OVERHEAD TELEVISION	---TTV---
PROPOSED OVERHEAD TELEVISION	---TV---
EXISTING UNDERGROUND TELEVISION	---TV---
PROPOSED UNDERGROUND TELEVISION	---TV---



NOT RELEASED FOR CONSTRUCTION

REVISION DATES	

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: URBAN DESIGN
LIGHTING PLANS
 GENERAL NOTES
 1-85 INTERCHANGE
 AT CR 98/GABBETTVILLE RD

DRAWING No. 25-42