GENERAL NOTES

1. ALL LAMPS SHALL BE HIGH PRESSURE SODIUM UNLESS OTHERWISE NOTED.
2. OPERATING VOLTAGE SHALL BE 480 VOLTS.
3. ALL BALLASTS SHALL BE REGULATOR TYPE.
4. REFRACTORS SHALL BE PRESSED PRISMATIC BOROSILICATE GLASS.
5. ALL FUSES AND FUSEHOLDERS SHALL BE IN-LINE TYPE AND WATERPROOF.
6. CONDUIT ACCESSORIES, SUCH AS EXPANSION JOINTS, CONDULETS, ELBOWS, FLEXIBLE CONDUIT, PULL/JUNCTION BOXES, ETC., SHALL BE INCLUDED IN THE PRICE BID FOR CONDUIT.
7. THE CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONDUIT. THE COST OF THIS ITEM WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
8. THE CONTRACTOR SHALL SUBMIT TO THE PROJECT ENGINEER PHOTOMETRIC DATA AND DESIGN CALCULATIONS FOR THE PROPOSED LUMINAIRES TO VERIFY THE LIGHTING DESIGN CRITERIA. THE CONTRACTOR SHALL FURNISH TO THE GDOT LIGHTING DESIGN GROUP MANUFACTURER'S DATA SHEETS, AND THE APPROPRIATE .IES FILE(S) FOR EACH FIXTURE SUBMITTED.
9. THE CONTRACTOR SHALL BEWARE OF OVERHEAD POWER LINES AND LOCATE TOWERS AND/OR STANDARDS SUCH THAT THEY WILL HAVE TEN FEET MINIMUM CLEARANCE FROM DISTRIBUTION LINES OR 20 FEET MINIMUM CLEARANCE FROM TRANSMISSION LINES.
10. LUMINAIRE SPECIFICATIONS:
    - A. THE REFLECTOR SHALL CONSIST OF HIGH PURITY (#3000 ALLOY) ALUMINUM OF MINIMUM 0.08 INCH THICK SHEET. FLAT LENS SHALL BE 1/8 INCH FULLY TEMPERED GLASS. THE REFLECTOR AND LENS OPTICAL ASSEMBLY SHALL BE DESIGNED TO PROVIDE THE IES PATTERN SPECIFIED. THE SOCKET SHALL BE PULSE RATED, NICKEL-PLATED AND LAMP GRIP POPRCELAIN ENCLOSED. IT SHALL PREVENT UNDUE LAMP VIBRATION AND BACKOUT.
    - B. THE BALLAST SHALL BE HIGH POWER FACTOR TYPE AS SPECIFIED. IT SHALL RELIABLY START THE LAMP IN AMBIENT TEMPERATURES TO MINUS 40 DEG. F. THE PLUG-IN HPS STARTER SHALL BE TOTALLY ENCAPSULATED WITH A MATERIAL THAT ELECTRICALLY AND THERMALLY INSULATES ALL COMPONENTS FROM LAMP AND BALLAST HEAT. A PROTECTED STARTER SHALL BE PROVIDED TO SENSE AN INOPERATIVE LAMP AND SHUT DOWN AUTOMATICALLY TO PREVENT CONTINUOUS PULSING AND THERMAL DAMAGE TO ITSELF AND THE BALLAST SECONDARY WINDINGS. THE LUMINAIRE SHALL BE UL/CUL LISTED FOR 40 DEG. C AMBIENT.
    - C. QUICK DISCONNECT ELECTRICAL ASSEMBLY: THE FIXTURE DOOR SHALL CONTAIN ALL BALLAST COMPONENTS AND BE HINGED FOR FAST, TOOL-FREE REMOVAL AND REPLACEMENT. COMPLETE REPLACEMENT SHALL TAKE LESS THAN 60 SECONDS.
    - D. ANSI LAMP LABEL: A SELF-ADHESIVE LABEL SHALL BE PROVIDED WHICH IDENTIFIES THE LAMP TYPE AND SIZE. IT SHALL MEET ANSI C-136 STANDARDS.
    - E. MECHANICAL CONSTRUCTION: THE HOUSING, DOOR AND FITTER SHALL BE DIE CAST ALUMINUM. THEY SHALL UNDERGO A SIX STAGE CLEANING AND PRE-TREATMENT PROCESS AND OVERCOATED WITH AN ELECTROSTATICALLY-APPLIED 2 TO 4 MIL COAT OF TGIC POLYESTER POWDER PAINT CURED AT 425 DEG. F. THE FINISH SHALL WITHSTAND A 160 INCH-POUND IMPACT MEASURED WITH A STANDARD GARDENER IMPACT TESTER. IT SHALL HAVE PASSED A 1,000 HOUR SALT SPRAY TEST AS SPECIFIED BY ASTM B-177. IT SHALL EXHIBIT NO CRACKING OR LOSS OF ADHESION FROM A 180 DEG. BEND OVER A 1/8 INCH MANDRELL DIAMETER PER ASTM D522. ALL EXTERNAL HARDWARE SHALL BE CORROSIVE-RESISTANT. HOUSING ACCESS SHALL NOT REQUIRE TOOLS. THE FITTER SHALL BE BUILT-IN AND ACCOMMODATE A STANDARD 2 INCH TENON OR ARM. UNITS SHALL BE INSIDE THE FITTER ASSEMBLY AND NOT REQUIRE FIXTURE ENTRY. A TERMINAL BLOCK LOCATED INSIDE THE FITTER SHALL BE PROVIDED.
    - F. WARRANTY: THE ELECTRICAL ASSEMBLY SHALL BE FULLY-WARRANTED FOR A PERIOD OF 5 YEARS AND THE HOUSING FOR A PERIOD OF 2 YEARS FROM THE DATE OF INSTALLATION ACCEPTANCE.
11. THE CONTRACTOR SHALL COORDINATE THE MODIFICATION WORK AT EACH SERVICE POINT WITH GEORGIA POWER. CONTACT JOHN WISEHART, DEKALB, GEORGIA 404-938-0292
12. RIGID CONDUIT, INSTALLED ON STRUCTURES, SHALL BE SUPPORTED AT LEAST EVERY TEN FEET AND WITHIN THREE FEET OF JUNCTION BOXES, LUMINAIRES, ETC.
13. THE LIGHTING CONTRACTOR SHALL COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
14. THE LIGHTING CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN WARRANTY FOR PARTS AND DEFECTIVE WORKMANSHIP ON THE LUMINAIRES, POLES, LIGHTING CONTROL PANEL AND ALL THE OTHER ELECTRICAL EQUIPMENT.
15. SHEETING AND/OR SHORING MAY BE REQUIRED. THE COST FOR THE SHEETING AND/OR SHORING SHALL BE INCLUDED IN THE CLASS A CONCRETE PAY ITEM COST BID.

LIGHTING DESIGN CRITERIA	MAIN LINE LIGHTING	SR 155 LIGHTING
LIGHT LOSS FACTOR (LLF)	0.7	0.7
AVERAGE MAINTAINED ILLUMINATION FOR ROADWAY	0.9 FC	1.3 FC
UNIFORMITY RATIO (AVG./MIN.)	3.0:1 MAXIMUM	3.0:1 MAXIMUM
WIND SPEED	90 MPH (ALL POLES)	