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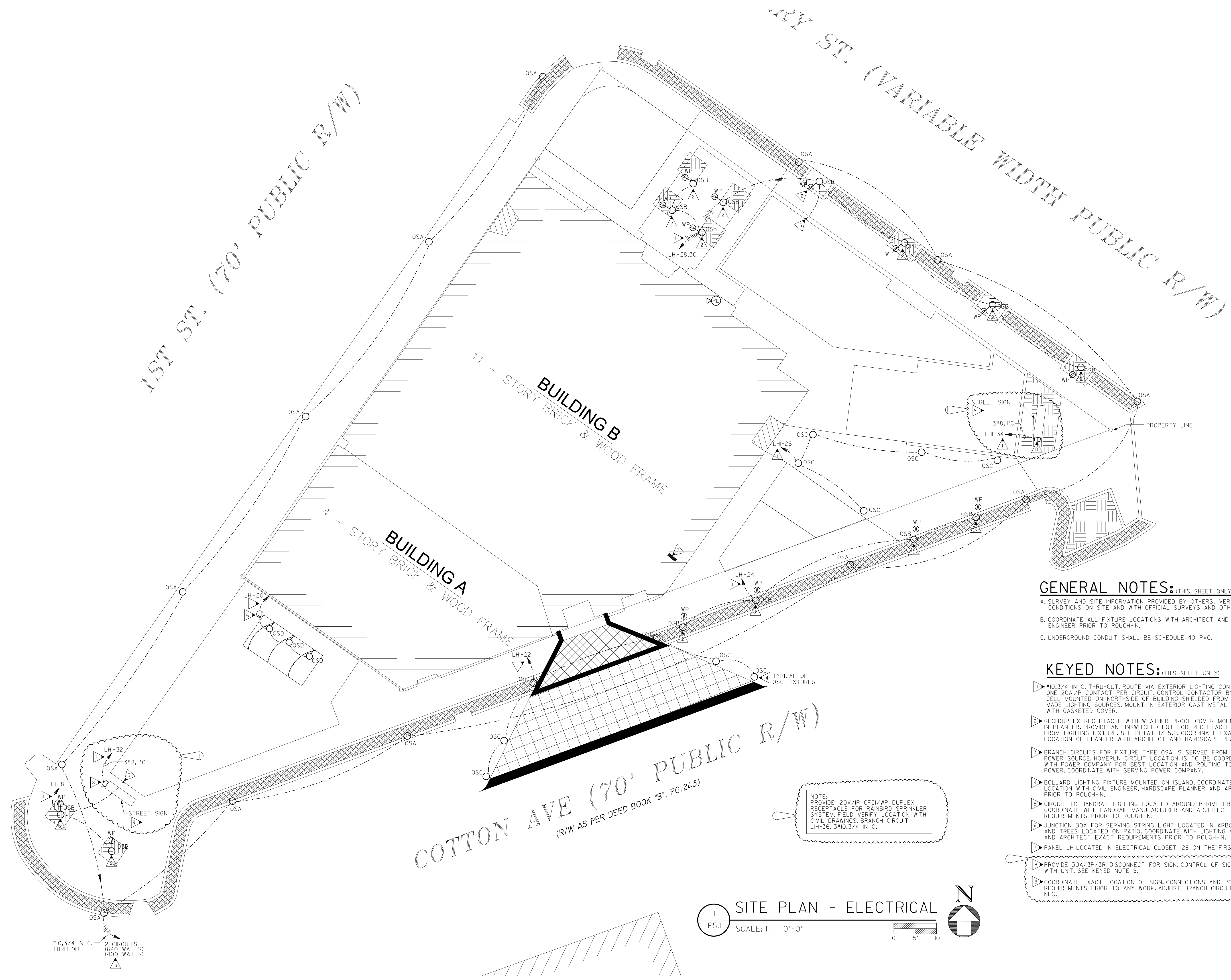
**SITE AND STREETSCAPE IMPROVEMENTS AT CHERRY STREET, FIRST STREET AND COTTON AVENUE**

Revisions:	
1	5/27/2021

Sheet Title:  
**SITE PLAN - ELECTRICAL**

Project #: 1901 Date: 5/07/2021

**E5.1**



- GENERAL NOTES:** (THIS SHEET ONLY)
- A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICIAL SURVEYS AND OTHER TRADES.
  - B. COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECT AND CIVIL ENGINEER PRIOR TO ROUGH-IN.
  - C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.

- KEYED NOTES:** (THIS SHEET ONLY)
- 1. #10, 3/4 IN C. THRU-OUT, ROUTE VIA EXTERIOR LIGHTING CONTRACTOR. ONE 20A/1P CONTACT PER CIRCUIT, CONTROL CONTACTOR BY P.E. CELL MOUNTED ON NORTHSIDE OF BUILDING SHIELDED FROM MAN-MADE LIGHTING SOURCES. MOUNT IN EXTERIOR CAST METAL BOX WITH GASKETED COVER.
  - 2. GFCI/DPLEX RECEPTACLE WITH WEATHER PROOF COVER MOUNTED IN PLANTER. PROVIDE AN UNSWITCHED HOT FOR RECEPTACLE SERVED FROM LIGHTING FIXTURE. SEE DETAIL 1/25.2. COORDINATE EXACT LOCATION OF PLANTER WITH ARCHITECT AND HARDSCAPE PLANNER.
  - 3. BRANCH CIRCUITS FOR FIXTURE TYPE OSA IS SERVED FROM CITY POWER SOURCE. HOMERUN CIRCUIT LOCATION IS TO BE COORDINATED WITH POWER COMPANY FOR BEST LOCATION AND ROUTING TO CITY POWER. COORDINATE WITH SERVING POWER COMPANY.
  - 4. BOLLARD LIGHTING FIXTURE MOUNTED ON ISLAND. COORDINATE EXACT LOCATION WITH CIVIL ENGINEER, HARDSCAPE PLANNER AND ARCHITECT PRIOR TO ROUGH-IN.
  - 5. CIRCUIT TO HANDRAIL LIGHTING LOCATED AROUND PERIMETER OF PATIO. COORDINATE WITH HANDRAIL MANUFACTURER AND ARCHITECT EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
  - 6. JUNCTION BOX FOR SERVING STRING LIGHT LOCATED IN ARBOR STRUCTURE AND TREES LOCATED ON PATIO. COORDINATE WITH LIGHTING MANUFACTURER AND ARCHITECT EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
  - 7. PANEL LHI LOCATED IN ELECTRICAL CLOSET 128 ON THE FIRST FLOOR.
  - 8. PROVIDE 30A/3P/3R DISCONNECT FOR SIGN. CONTROL OF SIGN PROVIDED WITH UNIT. SEE KEYED NOTE 9.
  - 9. COORDINATE EXACT LOCATION OF SIGN, CONNECTIONS AND POWER REQUIREMENTS PRIOR TO ANY WORK. ADJUST BRANCH CIRCUITRY PER 2020 NEC.

NOTE:  
PROVIDE 120V/1P GFCI/WP DUPLEX RECEPTACLE FOR RAINBIRD SPRINKLER SYSTEM. FIELD VERIFY LOCATION WITH CIVIL DRAWINGS. BRANCH CIRCUIT LHI-36, 3#10, 3/4 IN C.

**SITE PLAN - ELECTRICAL**  
SCALE: 1" = 10'-0"  
0 5' 10'

#10, 3/4 IN C. 2 CIRCUITS (640 WATTS) THRU-OUT (400 WATTS)

1ST ST. (70' PUBLIC R/W)

CHERRY ST. (VARIABLE WIDTH PUBLIC R/W)

COTTON AVE (70' PUBLIC R/W)  
(R/W AS PER DEED BOOK "B", PG. 243)

BUILDING B  
11 - STORY BRICK & WOOD FRAME

BUILDING A  
4 - STORY BRICK & WOOD FRAME

## ELECTRICAL SPECIFICATIONS

DIVISION 26

ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO THE RENOVATIONS TO SITE AND STREETScape IMPROVEMENTS AT CHERRY STREET, FIRST STREET AND COTTON AVENUE, MACON, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS
  2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
  3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE
  4. ALL PERMITS AND FEES SHALL BE OBTAINED AND PAID FOR BY THE
  5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.
  6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL
  7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS,
  8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
  9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
  10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL
- II. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS
2. ALL INTERIOR 120/277 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR MC CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF MC CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN 3/4" ELECTRICAL METALLIC CONDUIT MINIMUM. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT, GALVANIZED
3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC, IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE
4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN
5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2"
6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).
7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM
8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR.
9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO
10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.

SECTION C: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF
2. ALL LED FIXTURES SHALL BE ULL LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING LED SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.
4. DRIVERS SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN
5. ALL LED FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED, LED'S, DRIVERS AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN
6. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH

## SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
OSA	ONE-PIECE, SEAMLESS, PRESSURE MODLED COLORLESS BOROSILICATE GLASS GLOBE HAVING INTERNAL PRISMS WITH SMOOTH EXTERNAL SELF CLEANING SURFACE. 48 HIGH-PERFORMANCE LEDS. 14FT POLE. LAMPS: LED, 7400 LUMENS, 80 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT DRIVER	PHILIPS LUMEC S56 SERIES, POLE LUMEC RTA40-14-BKTX
OSB	8IN IN GRADE UP LIGHT, SEALED IP68 RATED LED LIGHT ENGINE. LAMPS: LED, 1253 LUMENS, 14 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT DRIVER	KIM LIGHTING LTV8FF SERIES OR APPROVED EQUAL
OSC	HEAVY 356 ALLOY CAST ALUMNUM BOLLARD WITH REMOVABLE CAP. LAMPS: LED, 590 LUMENS, 15 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT DRIVER	STERNBERG LIGHTING 420ILED AUGUSTA SERIES OR APPROVED EQUAL
OSD	ROOFTOP BAR FESTOON LIGHT.	CELESTIAL LIGHTING "HYDRA STL" SERIES



3 **FIXTURE TYPE OSA**  
E5.2 NOT TO SCALE



4 **FIXTURE TYPE OSB**  
E5.2 NOT TO SCALE



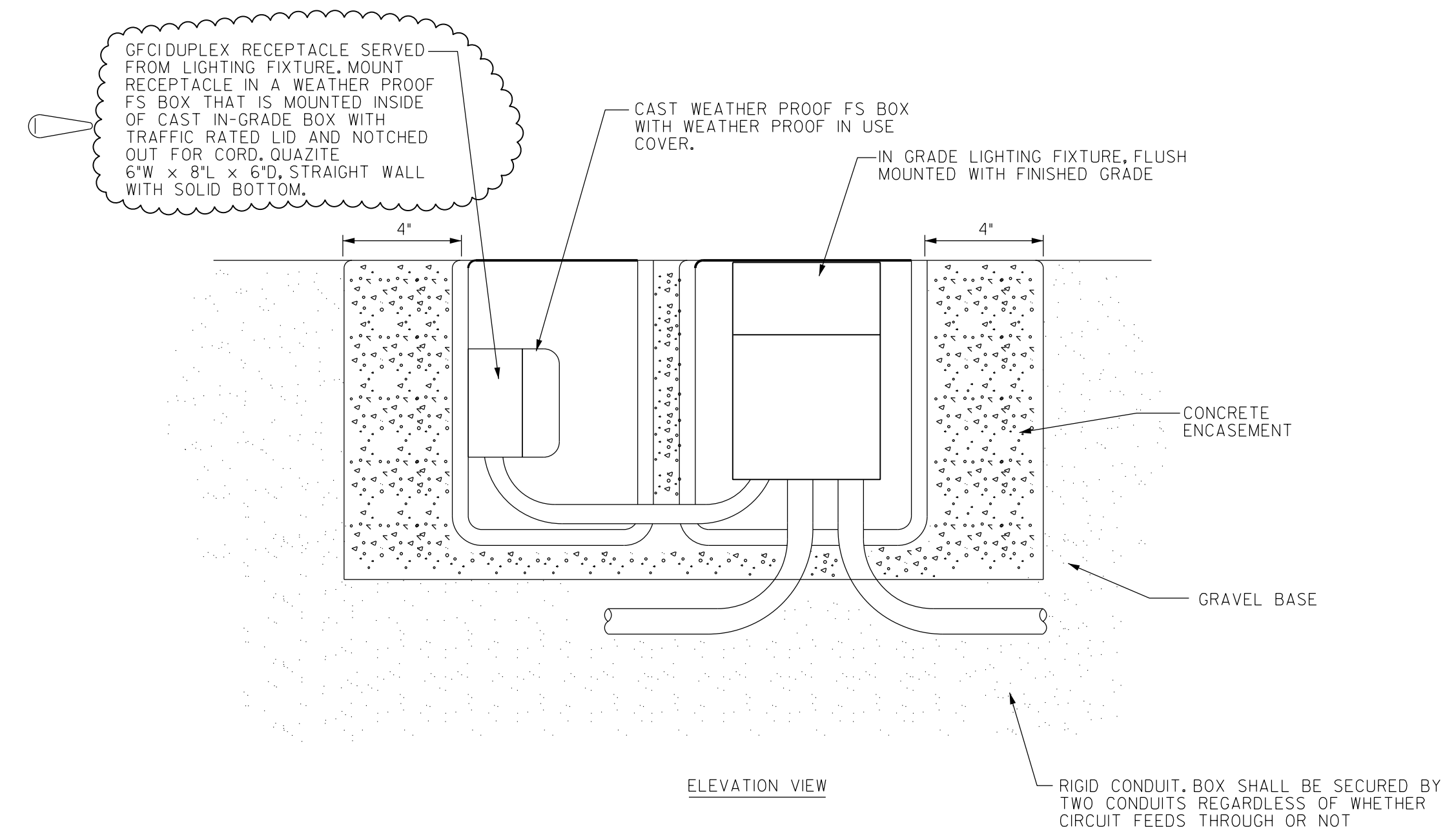
5 **FIXTURE TYPE OSC**  
E5.2 NOT TO SCALE

## ELECTRICAL LEGEND

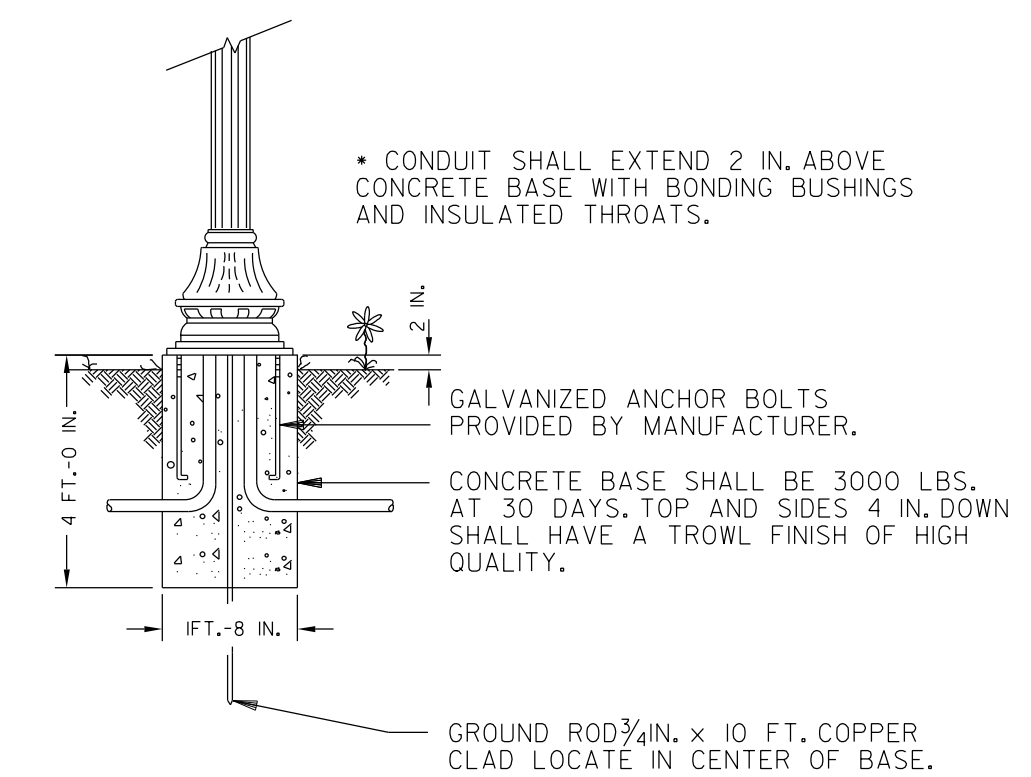
LIGHTING AND POWER	
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL, HASH MARKS INDICATE NUMBER OF CONDUCTORS. (3 WIRE UNLESS SHOWN)
	CONDUIT RUN CONCEALED BELOW FLOOR SLAB, OR UNDERGROUND.
	HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARD. NUMBERS INDICATES CIRCUIT NUMBERS.
	LIGHTING FIXTURE, WALL BRACKET MOUNTED. (MOUNTING HEIGHT AS NOTED ON ARCHITECTURAL DRAWINGS.)
	LIGHTING FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE.
	JUNCTION BOX.
	DUPLEX CONVENIENCE OUTLET, GFITYPE, 18 IN. TO CENTERLINE UNLESS OTHERWISE NOTED. *WP* WHERE SHOWN INDICATES WEATHERPROOF.
	PANELBOARD.

## GENERAL NOTES:

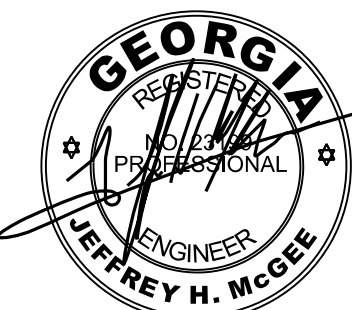
- DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
- THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.



1 **IN GRADE BOX FOR LIGHTING FIXTURE AND RECEPTACLE MOUNTING**  
E5.2 NOT TO SCALE



2 **POLE BASE DETAIL**  
E5.2 NOT TO SCALE



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**SITE AND STREETScape IMPROVEMENTS AT CHERRY STREET, FIRST STREET AND COTTON AVENUE**

Revisions:	
1	5/27/2021

Sheet Title:  
**SITE PLAN - DETAILS**

Project #: 1901 Date: 5/07/2021

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**E5.2**