

1 ELECTRICAL GROUNDING TOP PLAN
E7-103 SCALE: 1/8"=1'-0"

2 ELECTRICAL POWER AND CONTROL TOP PLAN
E7-103 SCALE: 1/8"=1'-0"

3 ELECTRICAL LIGHTING & FIRE ALARM TOP PLAN
E7-103 SCALE: 1/8"=1'-0"

GROUNDING KEY NOTES:

- ① GROUND LOOP BURIED 30" BELOW GRADE AND 3' OUTSIDE FOUNDATION.
- ② GROUNDING RODS SHALL BE SPACED APPROXIMATELY 50' O.C. MAX WITH TOP OF ROD 30" BELOW FINISHED GRADE.

GROUNDING NOTES:

- 1. CONTRACTOR SHALL PROVIDE A PVC SLEEVE AT EACH GROUND CABLE PENETRATING THROUGH CONCRETE SLAB.
- 2. EQUIPMENT BONDING GROUNDING CONDUCTORS SHALL BE PER SPECIFICATION 16450.
- 3. GROUNDING TAP CONDUCTORS TO MAJOR ELECTRICAL EQUIPMENT SHALL BE #4/0 BARE COPPER. GROUNDING LOOP CONDUCTORS SHALL BE EXTENDED TO MAIN WATER PIPE AND TO BUILDING STRUCTURAL STEEL.
- 4. GROUNDING TAP CONDUCTOR TO MINOR EQUIPMENT INCLUDING STEP DOWN TRANSFORMER, VFDs, CONTROL PANELS, ETC, SHALL BE #2/0 BARE COPPER.
- 5. REFER TO SHEET ED-602 FOR GROUNDING INSTALLATION DETAILS AND NOTES.

POWER AND CONTROL KEY NOTES:

- ① EXACT LOCATION OF MOTORS, DEVICES AND EQUIPMENT TO BE DETERMINED USING VENDOR AND/OR CONSTRUCTORS DRAWINGS. VENDORS DRAWINGS SHALL BE USED AS REQUIRED TO DETERMINE COORDINATE AND VERIFY ENTRY OF RACEWAYS AND TERMINATION OF CONDUCTORS FOR VENDOR EQUIPMENT.
- ② CONDUIT INSTALLED SHALL NOT INTERFERE WITH ACCESS AND SERVICING OF EQUIPMENT, AND SHALL NOT PREVENT REMOVAL OF FLOOR GRATING OR PLATES.
- ③ CONTRACTOR SHALL INSTALL KELLUM GRIPS FOR ALL VENDOR SUPPLIED MANUFACTURER PUMP CABLES BEFORE ENTERING RACEWAYS TO EACH J-BOX.
- ④ COORDINATE BRIDGE CRANE CABLES WITH PUMP STATION COVER OPENINGS IN PUMP STATION COVER.
- ⑤ PUMP STATION JUNCTION BOXES SHALL BE NEMA 4X STAINLESS STEEL. CONTRACTOR SHALL SIZE BOXES PER NEC. PROVIDE APPROPRIATE TERMINALS IN BOXES TO PERMIT INTERFACE BETWEEN PREFAB VENDOR CABLES AND FEEDER WIRING. MOUNT JUNCTION BOX AS SHOWN AT 48" ABOVE SLAB.
- ⑥ SEE CONDUCTORS/CONDUITS SCHEDULE, DWG ES-101, FOR CABLE AND CONDUIT SIZES.
- ⑦ PROVIDE GAS MONITORING PANEL (GMP-1) PER NFPA 820 FOR LOCAL AND REMOTE ALARMING IN CASE OF COMBUSTIBLE GAS DETECTION INSIDE THE WET WELL.
- ⑧ INSTALL CABLE AND CONDUIT SEAL-OFFS 20" ABOVE SLAB FOR THE SUBMERSIBLE PUMPS, HYDROSTATIC LEVEL TRANSMITTER, FLUSHING WATER SOLENOIDS, AND ASSOCIATED JUNCTION BOXES.
- ⑨ FOR SECURITY CAMERA EQUIPMENT PROVIDED AND INSTALLED BY OWNER. PROVIDE JUNCTION BOX, EMPTY CONDUIT WITH PULL STRING. ROUTE CONDUIT TO THE HEADEND EQUIPMENT. COORDINATE LOCATION WITH OWNER AND SECURITY INTEGRATOR.
- ⑩ CCTV HEADEND EQUIPMENT TO BE FURNISHED BY OTHERS. PROVIDE POWER. PROVIDE EMPTY CONDUIT WITH PULL STRING TO PLC CABINET FOR NETWORKING WITH DIMENSION PUMP STATION CCTV EQUIPMENT AND R.M. CLAYTON.

POWER AND CONTROL KEY NOTES (CONTINUED):

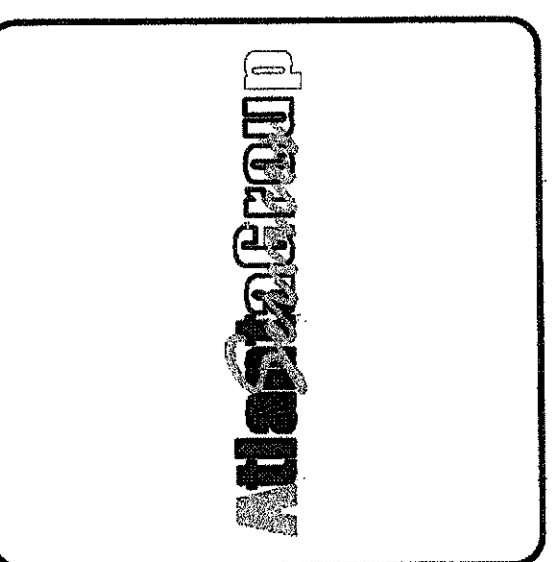
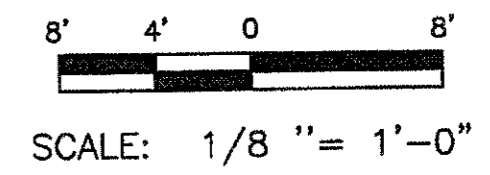
- ⑪ PROVIDE JUNCTION BOXES AND EMPTY CONDUIT WITH PULL STRING FOR CARD READER AND DOOR CONTACTS. PROVIDE POWER FOR ELECTRIC DOOR OPERATOR. ROUTE CONDUITS TO THE LOCATION OF ACCESS CONTROL HEADEND EQUIPMENT. ACCESS CONTROL EQUIPMENTS INCLUDING CARD READERS, DOOR CONTACTS, AND ELECTRIC DOOR OPERATORS ARE FURNISHED BY OTHERS.
- ⑫ PROVIDE JUNCTION BOXES AND EMPTY CONDUIT WITH PULL STRING FOR LOWER POSITION SWITCH. ROUTE CONDUIT TO THE LOCATION OF ACCESS CONTROL EQUIPMENT.
- ⑬ PTR 201A, B, C MOUNTED ABOVE PANELS SUSPENDED FROM CEILING ON UNISTRUT RACK.
- ⑭ COORDINATE EXACT LOCATION OF EF-704 AND EF-705 WITH MECHANICAL DWG. H7-101.
- ⑮ FSL-516A AND FSL-516B SHALL BE MOUNTED IN-LINE WITH EF-704 AND EF-705.

LIGHTING KEY NOTES:

- ① RUN CIRCUIT VIA LIGHTING CONTACTOR 'LC-201', CONTROLLED VIA PHOTOCELL/TIMELOCK. REFER TO PHOTOCELL/TIMELOCK CONTROL DIAGRAM ON SHEET ED-601 FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

- 1. SEE DRAWING E7-601 FOR PANELBOARD SCHEDULES.
- 2. ALL RECEPTACLES SHALL BE GFI. ALL OUTDOOR RECEPTACLES TO HAVE WP COVERS.
- 3. CABLE AND CONDUIT SIZES FOR MOTORS AND OTHER DEVICES CONNECTED TO ELECTRICAL EQUIPMENT LIKE MCC'S, VFD'S, RVSS DRIVES ARE SHOWN ON SINGLE LINE DRAWING ONLY (E3-101).
- 4. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
- 5. BRANCH CIRCUIT CONDUITS MAY ALSO BE EMBEDDED IN CONCRETE SLAB. MINIMUM SIZE CONDUIT EXPOSED SHALL BE 3/4". MINIMUM SIZE CONDUIT IN SLAB SHALL BE 1".
- 6. SEE DRAWING ED-303 FOR AREA CLASSIFICATIONS.
- 7. CONDUIT, BOXES, FITTINGS AND SUPPORTS SHALL BE SUITABLE FOR HAZARDOUS AND/OR CORROSIVE AREAS AS SPECIFIED ON THE AREA CLASSIFICATIONS DRAWING.
- 8. NOT USED.
- 9. CONDUCTORS AND RACEWAY TO COMMUNICATIONS NETWORK. SEE ALSO ELECTRICAL SITE PLANS FOR APPROXIMATE ROUTE OF RACEWAYS TO BUILDING.
- 10. PROVIDE PUMP CABLE ROUTING TO ENSURE THE POSITIONS AND SUPPORTS ARE LOCATED TO FULLY SUPPORT THE CABLES.
- 11. PROVIDE AND COORDINATE ROUTING OF HORIZONTAL PUMP CABLE SUPPORT TRAYS WITH EQUIPMENT AT THE TOP OF THE PUMP STATION.
- 12. ALL INSTRUMENTATION CABLE AND CONDUITS SHALL BE BY DEFAULT, 2#14 - 3/4"C. FOR DISCRETE SIGNALS AND 1-2/C#16SH. - 3/4"GRC. FOR ANALOG SIGNALS, UNLESS NOTED OTHERWISE.
- 13. ALL BRANCH CIRCUIT FEEDERS SHALL BE BY DEFAULT, 2#12 & #12G. - 3/4"C. UNLESS OTHERWISE NOTED.



PEACHTREE CREEK SOUTH FORK
RELIEF STORAGE AND PUMPING STATION

CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT

REV	DATE	DESCRIPTION
0	10/28/12	100 PERCENT BID PACKAGE

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE

THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: FC-6260
DATE: OCTOBER 2012
RESP PROF: KCV
DESIGNER: AWP
CHECKER: BLB

SHEET TITLE
ELECTRICAL
07 - JET MIXING PUMP STATION
ELECTRICAL PLANS
TOP LEVEL

SHEET NO. E7-103 REV 0