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P:\COMMERCIAL\2016 PROJECT IN-BOX\2016-139 New Restroom at Durr Field\5. Drawing Info. Revit\16139 Durr Field Restrooms - ELEC.rvt
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GENERAL ELECTRICAL NOTES:

GENERAL REQUIREMENTS:

- ALL WORK SHALL CONFORM TO THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), ALL STATE AND LOCAL CODES, RULES, AND REGULATIONS, AND PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS, AND LICENSES FOR THE COMPLETE INSTALLATION OF THE WORK OUTLINED IN THESE CONTRACT DOCUMENTS.
- THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR EXACT LOCATION OF EQUIPMENT AND/OR CONDUIT IS SHOWN. VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ORDERING ANY MATERIAL OR PERFORMING ANY WORK. NOTIFY THE ENGINEER OF RECORD OF ANY CONDITIONS OR DIMENSIONS WHICH WOULD AFFECT PERFORMANCE OF WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS.
- CONTRACTOR IS TO COORDINATE W/ GENERAL CONTRACTOR IN REGARDS TO PROJECTS, TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
- HANDLE, STORE AND PROTECT EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REPLACE DAMAGED OR DEFECTIVE ITEMS WITH NEW ITEMS.

COORDINATION:

- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS AND ELECTRICAL REQUIREMENTS OF MECHANICAL/PLUMBING EQUIPMENT WITH THE MECHANICAL/PLUMBING CONTRACTORS PRIOR TO ORDERING ANY MATERIAL OR PERFORMING ANYWORK ASSOCIATED WITH SUCH EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, AND FIRE PROTECTION CONTRACTOR PRIOR TO INSTALLATION TO AVOID CONFLICT WITH DUCTWORK, PIPING, AND SPRINKLER SYSTEM COMPONENTS.
- EXACT DEVICE LOCATIONS (RECEPTACLES, DATA/TELEPHONE OUTLETS, LIGHT FIXTURES, ETC.) SHALL BE COORDINATED WITH ARCHITECTURAL PLANS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE AND METERING.
- ELECTRICAL CONTRACTOR SHALL COORDINATE TELEPHONE SERVICE WITH LOCAL TELEPHONE SERVICE PROVIDER.

MATERIALS:

- OUTLET BOXES
 - GENERAL USE BOXES: GALVANIZED, PRESSED STEEL UNITS OF PROPER DEPTH AND GAUGE REQUIRED BY THE OUTLET LOCATION. EQUIP WITH PASTER OR COVER AS NECESSARY.
 - SPECIAL BOXES: GALVANIZED SHEET METAL OR CAST CONSTRUCTION AND SIZED IN ACCORDANCE WITH NFPA 70. FOR SPECIAL SYSTEM, RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- CONDUIT
 - RIGID METALLIC CONDUIT (RMC): HOT DIPPED GALVANIZED STEEL CONFORMING TO (FS) WW-C581E AND UL 6.
 - ELECTRICAL METALLIC TUBING (EMT): GALVANIZED STEEL CONFORMING TO ASA C80.3, (FS) WW-C563 AND ULF 797.
 - FLEXIBLE METAL CONDUIT (FMC): SPIRAL WOUND, SQUARE LOCKED, HOT GALVANIZED STEEL CONFORMING TO UL 1.
 - METAL-CLAD CABLE (MC): INTERLOCKING METAL TAPE SHEATH, CONFORMING TO UL 1569.
 - NON-METALLIC SHEATHED CABLE (NM): CONFORMING TO UL 719.
- CONDUIT FITTINGS
 - RMC: HOT DIPPED GALVANIZED OR CADMIUM PLATED. FITTINGS USED WITH COATED RMC SHALL HAVE A SIMILAR COATING.
 - EMT: COMPRESSION OR SET SCREW TYPE, MADE OF CADMIUM PLATED STEEL HOT DIPPED GALVANIZED MALLEABLE IRON.
 - FMC: TWO SCREW, DOUBLE CLAMP MALLEABLE IRON, HOT DIPPED GALVANIZED OR CADMIUM PLATED.
- WIRING
 - ALL WIRING SHALL BE COPPER UNLESS NOTED OTHERWISE.
 - INSULATION: HEAT AND MOISTURE RESISTANT WITH A TEMPERATURE RATING AT LEAST 75 DEGREES THERMAL HIGH HEAT NYLON (THHN), THERMAL HIGH WATER RESISTANT NYLON (THWN) AND A 600 VOLT RATING UNLESS OTHERWISE INDICATED.
 - USE STRANDED CONDUCTOR ON ALL WIRING #8 AWG AND LARGER. ALL OTHER WIRING MAY BE SOLID.
- USE ANCHORS AND FASTENERS OF A TYPE DESIGNED AND INTENDED FOR USE IN THE BASE MATERIAL TO WHICH THE MATERIAL OR SUPPORT IS TO BE ATTACHED, AND CAPABLE OF SUPPORTING THE INTENDED LOAD AND WITHSTANDING ANY ASSOCIATED STRESSES AND VIBRATIONS. DO NOT USE WOODEN PLUGS FOR FASTENING.
- ALL MATERIALS USED FOR CONSTRUCTION SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER.
- ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH DEVICE STYLE, COLOR, AND MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL LIGHT FIXTURES PER MANUFACTURER'S RECOMMENDATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, MOUNTING HARDWARE, SLOPED-CEILING ADAPTORS, GYP BOARD KITS, ETC.
- FOR ALL TELEPHONE/DATA OUTLETS, PROVIDE AN OUTLET BOX WITH 3/4" CONDUIT AND PULL STRING TO ACCESSIBLE CEILING SPACE.
- ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE NEW, UL LISTED OR LABELED, AND CONFORM TO NATIONAL/ANSI STANDARDS WHERE APPLICABLE.
- FURNISH AND INSTALL PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES OF SUITABLE GAUGE AND SIZE AS NECESSARY TO PROVIDE A FULLY FUNCTIONAL AND CODE COMPLIANT SYSTEM.
- MATERIALS - (NON HAZARDOUS LOCATION)
 - ALL ELECTRICAL EQUIPMENT INSTALLED IN A CLASS DIVISION 2 ENVIRONMENT AS DEFINED BY NEC ARTICLE 500 SHALL BE CONSTRUCTED AND LISTED FOR USE IN SUCH ENVIRONMENT, AND APPROVED FOR USE WITH THE SPECIFIC MATERIALS PRESENT.

EXECUTION:

- MAINTAIN THE INTEGRITY OF ALL EXISTING CIRCUITS IN SERVICE THAT MAY BE AFFECTED BY THIS WORK. IDENTIFY ALL SOURCES OF POWER AND DE-ENERGIZE REQUIRED CIRCUITS BEFORE BEGINNING WORK.
- PERFORM ALL CUTTING AND DRILLING TO PROVIDE PENETRATIONS THROUGH WALLS AND FLOORS FOR ELECTRICAL INSTALLATION WORK.
- WHERE CONDUITS PASS THROUGH FIRE RATED OR SMOKE RATED ASSEMBLIES, CONTRACTOR SHALL FOLLOW UL GUIDELINES FOR SEALING/STOPPING PENETRATIONS MAINTAIN FIRE AND/OR SMOKE RATINGS OF ASSEMBLY.
- ALL DEVICES AND JUNCTION BOXES SHALL BE ACCESSIBLE. PROVIDE ACCESS PANELS REQUIRED TO ENSURE ACCESS TO DEVICES. COORDINATE ACCESS PANEL LOCATIONS AND TYPES WITH ARCHITECT OF RECORD AND GENERAL CONTRACTOR PRIOR TO ORDERING AND INSTALLATION.
- DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL STRUCTURAL SUPPORTS, OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY. ALL STRUCTURAL SUPPORTS FOR ELECTRICAL EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL ELECTRICAL DEVICE CONNECTIONS SHALL BE TIGHTENED TO THE TORQUE VALUES RECOMMENDED BY THE DEVICE MANUFACTURER. IF THESE VALUES ARE NOT LISTED, TIGHTEN TO POUND INCH OR POUND FOOT VALUES RECOMMENDED BY UL STANDARD 486A-B.
- GROUNDING
 - ALL ELECTRICAL EQUIPMENT, WIRING, CONDUITS, AND BUILDING ELEMENTS BE GROUNDED PER THE REQUIREMENTS OF NFPA 70.
 - THE BUILDING GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED TO MAINTAIN A RESISTANCE TO EARTH OF 25 OHMS OR LESS. IF A SINGLE ELECTRODE CAN NOT MEET THIS REQUIREMENT, THE CONTRACTOR IS TO INSTALL SUPPLEMENTAL ELECTRODES PER SECTION 250.53 OF NFPA 70.
 - PROVIDE AN EQUIPMENT CONDUCTOR IN ALL RACEWAYS SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 70. CONDUITS ARE NOT PERMITTED TO BE USED IN LIEU OF A GROUND WIRE.
 - BOND ALL BRANCH CIRCUIT DEVICES TO THE BUILDING GROUND SYSTEM BY MEANS OF THE GROUNDING CONDUCTOR INSTALLED IN EACH RACEWAY.
- CABLE INSTALLED OUTSIDE OF RACEWAYS SHALL BE SUPPORTED INDEPENDENTLY AND NOT FROM OTHER SYSTEMS. SECURING CABLES TO OR FROM WATERLINES, ELECTRICAL RACEWAYS, OR ANY OTHER MECHANICAL SYSTEM IS NOT ACCEPTABLE. CABLES SHALL BE SUPPORTED FROM BAR JOISTS, CABLE TRAYS, UNI-STRUT TRAPEZE HANGERS, OR OTHER SUPPORTS APPROVED FOR THIS PURPOSE. MAXIMUM SPACING SHALL BE 10' ON CENTER WITH A MAXIMUM 8' SAG. CABLES SHALL MAINTAIN A MINIMUM 6" CLEARANCE FROM ELECTRICAL EQUIPMENT.
- IDENTIFICATION
 - PROVIDE 1/8" SELF-STICK LABELS WITH BLOCK LETTERING PROTECTED WITH CLEAR TAPE TO IDENTIFY PANEL AND CIRCUIT NUMBER AT RECEPTACLES. ADDITIONALLY, PROVIDE 1-1/2" HIGH ENGRAVED LAMINATED NAMEPLATES TO IDENTIFY CABINETS, PANELBOARDS, MOTOR STARTERS, ETC.
 - IDENTIFY ALL MAJOR JUNCTION BOXES USING BLACK LETTERS TO IDENTIFY THE PANEL AND CIRCUIT NUMBER OR SYSTEM WIRING.
 - CONTRACTOR SHALL PROVIDE IDENTIFICATION FOR WIRING SYSTEMS AND EQUIPMENT.
 - POWER WIRING SHALL HAVE CONDUCTORS COLOR Banded IN EACH JUNCTION AND PULL BOX.
 - CONTROL CIRCUIT WIRING SHALL BE IDENTIFIED WITH WIRE NUMBERS AT EACH TERMINATION.
 - ON PANELBOARD NAMEPLATES, LIST THE PANEL DESIGNATION, AMPERAGE, VOLTAGE, AND PHASE.
 - PROVIDE TYPEWRITTEN PANELBOARD CIRCUIT DIRECTORY IN PANELBOARD IDENTIFYING ALL ACTIVE CIRCUITS AND SPARES. ACTIVE CIRCUITS SHALL DESIGNATE EQUIPMENT SERVED. DIRECTORY SHALL REFLECT ACTUAL PANEL AND SHALL NOT BE A REPRODUCTION OF DESIGN DRAWING PANEL DEVIATIONS WERE MADE DURING CONSTRUCTION.
- WIRING
 - ALL WIRING SHALL BE INSTALLED IN APPROVED CONDUITS OR RACEWAYS UNLESS NOTED OTHERWISE.
 - ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS UNLESS NOTED OTHERWISE.
 - WIRES SHALL BE A MINIMUM #12 AWG IN SIZE.
 - COLOR CODE WIRING AS FOLLOWS:
 - 120/240V, 1 PHASE: NEUTRAL - WHITE, PHASE A - BLACK, PHASE B - RED, GROUND - GREEN
 - 120/208V, 3 PHASE: NEUTRAL - WHITE, PHASE A - BLACK, PHASE B - RED, PHASE C - BLUE, GROUND - GREEN
 - 277/480V, 3 PHASE: NEUTRAL - GREY, PHASE A - BROWN, PHASE B - ORANGE, PHASE C - YELLOW, GROUND - GREEN

EXECUTION: (CONT.)

- CONDUIT
 - ALL CONDUITS SHALL BE INSTALLED IN A CONCEALED LOCATION WHERE POSSIBLE, WITH THE EXCEPTION OF DEDICATED MECHANICAL AND SPACES. IN THOSE AREAS OUTSIDE OF THE EXCEPTION POSSIBLE TO INSTALL CONDUITS IN A CONCEALED MANNER, ELECTRICAL CONTRACTOR SHALL INSTALL EXPOSED CONDUITS PARALLEL AND AT RIGHT ANGLES TO THE NEARBY SURFACES AND STRUCTURAL MEMBERS. IN THESE AREAS, GROUP RACEWAYS IN MINIMUM GROUPS OF THREE RACEWAYS ON A COMMON SUPPORT SYSTEM.
 - PROVIDE PULL ROPE IN ALL EMPTY CONDUITS.
 - EXTERIOR LOCATIONS: USE RMC CONDUIT OR SCHEDULE 40 PVC IN CONCRETE.
 - INTERIOR LOCATIONS, WHERE SUBJECT TO DAMAGE BELOW 8' AFF: USE RMC CONDUIT.
 - INTERIOR LOCATIONS, WHERE NOT SUBJECT TO DAMAGE, ABOVE 8' AFF, OR IN CONCEALED LOCATIONS: USE EMT CONDUIT.
 - TYPE MC CABLE FOR LIGHTING CIRCUITS IS PERMITTED IN CONCEALED UP TO A MAXIMUM RUN OF 60' FEET AT THE END OF RUN TO FIXTURES TO SUPPLYING BRANCH CIRCUIT.
 - TYPE NM CABLE IS NOT PERMITTED TO BE USED WITHOUT CONDUIT IN ANY LOCATIONS EXCEPT BY WRITTEN APPROVAL BY THE ENGINEER OF RECORD.
 - FMC IS PERMITTED TO BE USED IN FOR RUNOUTS FOR EQUIPMENT SUBJECT TO VIBRATION (MOTORS, HVAC EQUIP, ETC.). RUNOUT LENGTHS FOR FMC MUST BE 60' FEET OR LESS.
 - CONDUIT REQUIREMENTS IN THIS SECTION ARE PROVIDED FOR GENERAL AND INSTALLATION GUIDANCE. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING NFPA 70 REQUIREMENTS.
- CONDUIT FITTINGS
 - PROVIDE INSULATED CONDUIT BUSHINGS AT EACH END OF EACH CONDUIT RUN.
- LIGHTING
 - ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, AND FIRE PROTECTION CONTRACTOR PRIOR TO INSTALLATION TO AVOID CONFLICT WITH COMPONENTS, DUCTWORK, PIPING, AND SPRINKLER SYSTEM.
 - MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS WHICH MAY BE INCORPORATED IN THE LISTED IN THE FIXTURE SCHEDULE. LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF THE GRID SYSTEM (2 POINTS MINIMUM).
 - COORDINATE LIGHTING FIXTURE TRIMS AND MOUNTING REQUIREMENTS WITH CEILING TYPES WHEN FIXTURES ARE INSTALLED.
 - PROVIDE REQUIRED ENCLOSURES ON CONSTRUCTION FIXTURES FOR FIXTURES INSTALLED IN FIRE RATED CEILING TO MAINTAIN FIRE RATING OF CEILING.
- LIGHTING CONTROLS
 - WHERE MORE THAN ONE SWITCH OR DIMMER OCCURS AT A LOCATION, GROUP SWITCHES TOGETHER WITH A COMMON JUNCTION BOX AND FACILITY AT THE LOCATION.
 - WHERE OCCUPANCY SENSORS ARE USED IN OPEN CONFIGURATION, CONTRACTOR SHALL INSTALL LAST SENSOR AT EACH END TO PREVENT PASSER-BY ACTIVATION OF LIGHTS.
 - TIMEOUT ON OCCUPANCY SENSORS SHALL BE SET TO 10 MINUTES UNLESS OTHERWISE NOTED.
- RECEPTACLES
 - ALL RECEPTACLES LOCATED WITHIN 6'-0" OF A SINK OR LAVATORY SHALL BE GFCI RATED.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BALANCING ALL BRANCH CIRCUITS AND THE PHASES OF THE SYSTEM ACCORDING TO NFPA 70.
- BEFORE ENERGIZING OR NEW FEEDERS, CHECK ALL WIRE AND CABLE FOR CONTINUITY FOR CIRCUITRY AND FOR SHORT CIRCUITS. CORRECT ANY DEFICIENCIES PRIOR TO ENERGIZING.
- RECORD DRAWINGS
 - MAINTAIN A SET OF DRAWINGS ON SITE. THESE DRAWINGS SHALL BE UPDATED WITH ALL FORMAL FIELD CHANGES AND OTHER PORTIONS OF THAT VARY SIGNIFICANTLY FROM THE CONTRACT DOCUMENTS. INDICATE ACTUAL ROUTING OF ALL MAIN SERVICE, TRANSFORMER, AND PANELBOARD FEEDERS.
 - DELIVER RECORD DRAWINGS TO OWNER PRIOR TO CLOSEOUT OF CONSTRUCTION.
- ALL MATERIALS AND LABOR SHALL BE UNCONDITIONALLY WARRANTED FOR A PERIOD ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. SPECIFIC MANUFACTURER'S EQUIPMENT WARRANTIES IN EXCESS OF ONE (1) YEA SHALL TAKE PRECEDENCE. MANUFACTURER'S WARRANTIES SHALL BE PROVIDED WHENEVER AVAILABLE AND POSSIBLE. ALL EQUIPMENT SHALL BE NEW AND UNUSED FROM THE FACTORY AND SHALL NOT BE MODIFIED OR REBUILT.

ELECTRICAL ABBREVIATIONS:

- A AMPS, AMPERES
- AB AS-BUILT
- AC ALTERNATING CURRENT
- AFCI ARC FAULT CIRCUIT INTERRUPTOR
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AIC AMPERE INTERRUPTING CAPACITY
- AL ALARM
- AM AMMETER
- AT ASTRONOMIC TIMER
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CB CIRCUIT BREAKER
- CCTV CLOSED CIRCUIT TELEVISION
- CKT CIRCUIT
- CL CENTER LINE
- CEILING
- CLR CLEARANCE
- CPVC RIGID POLYVINYL CHLORIDE
- CT CURRENT TRANSFORMER
- CU COUNTER
- CU COPPER
- DC DIRECT CURRENT
- DIA DIAMETER
- DS DISCONNECT SWITCH
- EA EACH
- ELEC ELECTRICAL
- EMER EMERGENCY
- EMT ELECTRICAL METALLIC TUBING
- ES EMERGENCY STOP
- FA FIRE ALARM
- FACP FIRE ALARM CONTROL PANEL
- FC FULLY CLOSED
- FLA FULL LOAD AMPS
- FO FULLY OPEN
- FU FUSE
- GC GENERAL CONTRACTOR
- GFCI GROUND FAULT CIRCUIT INTERRUPTOR
- GND GROUND
- HP HORSEPOWER
- HZ HERTZ
- IMC INTERMEDIATE METAL CONDUIT
- JB JUNCTION BOX
- KVA KILO-VOLT AMP(S)
- KW KILO-WATT
- KWH KILO-WATT HOUR(S)
- LTG LIGHTING
- LTS LIGHTS
- LO LOCKOUT

ELECTRICAL ABBREVIATIONS: (CONT.)

- MC METAL-CLAD CABLE
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MFR MANUFACTURER
- MLO MAIN LUGS ONLY
- MTD MOUNTED
- MTG MOUNTING
- MTR METER
- MTS MANUAL TRANSFER SWITCH
- N NEUTRAL
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATED
- NO NORMALLY OPEN
- N NOMINAL
- NTS NOT TO SCALE
- OC OVERCURRENT
- OCPD OVERCURRENT PROTECTION DEVICE
- OD OUTSIDE DIAMETER
- OL OVERLOAD
- P POLE
- PB PUSHBUTTON
- PH PHASE
- PNL PANELBOARD
- PVC POLYVINYL CHLORIDE
- QTY QUANTITY
- RA REMOTE ANNUNCIATOR
- RCC RELAY CONTROL CABINET
- REF REFERENCE
- REQD REQUIRED
- RMC RIGID METAL CONDUIT
- SW SWITCH
- SWB SWITCHBOARD
- SWGR SWITCHGEAR
- UC UNDER COUNTER
- UL UNDERWRITERS LABORATORY
- UNO UNLESS NOTED OTHERWISE
- V VOLT(S)
- VA VOLT-AMPERE(S)
- VFD VARIABLE FREQUENCY DRIVE
- VSD VARIABLE SPEED DRIVE
- W WATT(S)
- WP WATER PROOF
- XFMR TRANSFORMER
- LVS LOW VOLTAGE DIGITAL SWITCH
- LC1 LIGHTING CONTROL PANEL



Croft & Associates
 3400 Blue Springs Road, Suite 200
 Kennesaw, Georgia 30144
 770.529.7714 (p) 770.529.7716 (f)
 www.croftandassociates.com



OWNER
CITY OF ACWORTH
 4415 SENATOR RUSSELL AVENUE
 ACWORTH, GEORGIA 30101

DURR FIELD
 4757 - 4805 SCHOOL STREET
 ACWORTH, GEORGIA 30101

No.	Date	Description
0	2018-03-12	ISSUED FOR CONSTRUCTION
	2016-7-22	100% Set
		ISSUANCE

PROJECT NUMBER
16139
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 SHEET TITLE
ELECTRICAL GENERAL NOTES & LEGEND

SHEET NO.
E-001