

ELECTRICAL LEGEND

GENERAL ELECTRICAL DEVICES:

- Ⓢ SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
3 - THREE-WAY LIGHTING SWITCH.
DF - FLOURESCENT SLIDE DIMMER SWITCH WITH PRESET (LUTRON NTF-103P-WH). M - MANUAL MOTOR STARTER. MOUNT 80" AFF. PROVIDE PHENOLIC LABEL.
- Ⓛ DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTUAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
G - GROUND FAULT CIRCUIT INTERRUPTER TYPE.
WP - GFI DEVICE WITH DIECAST WEATHERPROOF BACKBOX & CLEAR WEATHERPROOF (N-USE) COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 30" AFG. EWC - CONCEAL RECEPTACLE BEHIND EWC (COORDINATE WITH DIVISION 15). TV - COORDINATE RECEPTACLE LOCATION WITH A/V OUTLET.
84" - MOUNTING HEIGHT OF DEVICE AFF.
- Ⓛ DUPLEX RECEPTACLE NEMA 5-20R. MOUNTED FACE DOWN IN CEILING.
- Ⓛ DUPLEX RECEPTACLE NEMA 5-20R. MOUNTED IN MILLWORK.
- Ⓛ QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED IN MILLWORK. UNLESS NOTED OTHERWISE.
- Ⓛ DUPLEX RECEPTACLE MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.
- Ⓛ SPECIAL NEMA TYPE RECEPTACLE. VERIFY WITH EQUIPMENT BEING SUPPLIED. MOUNTED 10" AFF. UNLESS NOTED OTHERWISE.
- Ⓛ QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 18" AFF. UNLESS NOTED OTHERWISE.
- Ⓛ QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.

LIGHTING CONTROL EQUIPMENT:

- Ⓛ PHOTOELECTRIC CELL. SEE LIGHTING CONTROL DIAGRAM AND CONNECT AS REQUIRED.
- Ⓛ LIGHTING CONTACTOR. SEE DETAIL.

OCCUPANCY SENSORS:

- Ⓛ WALL MOUNTED PIR TYPE SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE.
- Ⓛ CEILING MOUNTED LOW VOLTAGE 360° DUAL TECHNOLOGY (PASSIVE INFRARED & MICROPHONIC) OCCUPANCY SENSOR.
- Ⓛ POWER PACK. PROVIDE WITH NEMA 1 ENCLOSURE.

DISTRIBUTION & POWER EQUIPMENT:

- Ⓛ PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
- Ⓛ DISTRIBUTION PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
- Ⓛ ENCLOSED CIRCUIT BREAKER.
- Ⓛ NON-FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.
- Ⓛ AUTOMATIC TRANSFER SWITCH.
- Ⓛ DEDICATED WORKING SPACE IN FRONT OF ELECTRICAL PANELS.

MISCELLANEOUS EQUIPMENT:

- Ⓛ EMERGENCY GENERATOR REMOTE ANNUNCIATOR. FLUSH MOUNTED AT 5'0" AFF.
- Ⓛ JUNCTION BOX.
- Ⓛ ELECTRICAL CONNECTION TO EQUIPMENT. VERIFY LOCATION WITH EQUIPMENT PROVIDER.
- Ⓛ UNDERGROUND LIGHTING JUNCTION BOX (8"x8"x4" DEEP - PVC). CONNECT TO POLE MOUNTED LIGHT FIXTURE PROVIDED BY OTHERS.

FIRE ALARM SYSTEM:

- Ⓛ FIRE ALARM SYSTEM ADDRESSABLE SINGLE ACTION MANUAL PULL STATION. MOUNT 48" TO CENTER OF DEVICE. PROVIDE WITH CLEAR AUDIBLE PROTECTIVE SHIELD.
- Ⓛ FIRE ALARM SYSTEM AUDIO-VISUAL ALARM (CANDELA AS INDICATED ON SUBSCRIPT). MOUNT 80" AFF TO BOTTOM OF DEVICE OR 6" FROM THE BOTTOM OF CEILING, WHICHEVER IS LOWER. ALL STROBES SHALL BE SYNCHRONIZED. SUBSCRIPT
- Ⓛ FIRE ALARM SYSTEM STROBE APPLIANCE (CANDELA AS INDICATED ON SUBSCRIPT). MOUNT 80" AFF TO BOTTOM OF DEVICE OR 6" FROM THE BOTTOM OF CEILING, WHICHEVER IS LOWER. ALL STROBES SHALL BE SYNCHRONIZED.
- Ⓛ FIRE ALARM SYSTEM CEILING MOUNTED AUDIO-VISUAL ALARM (CANDELA AS INDICATED ON SUBSCRIPT). ALL STROBES SHALL BE SYNCHRONIZED.
- Ⓛ FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT.
- Ⓛ FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC DUCT MOUNTED SAMPLE TUBE TYPE SMOKE DETECTOR. PROVIDED BY DIV. 16, INSTALLED BY DIV. 15 AND CONNECTED BY DIV. 16.
- Ⓛ FIRE ALARM SYSTEM ADDRESSABLE AIR HANDLING UNIT SHUT-DOWN RELAY (UNLESS NOTED OTHERWISE). PROVIDE WITH POWER RELAY WHERE REQUIRED.
- Ⓛ MULTIPLEXED ADDRESSABLE FIRE ALARM CONTROL PANEL. BATTERY SUPPLIES TO BE MOUNTED WITH FACP. REMOTE BOOSTER TYPE BATTERY POWER SUPPLIES WILL NOT BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS. FIELD VERIFY EXACT MOUNTING LOCATION.
- Ⓛ FIRE ALARM SYSTEM REMOTE ANNUNCIATOR. FLUSH MOUNTED AT 5'0" AFF.

LIGHTING FIXTURES:

- Ⓛ FLUORESCENT LIGHTING FIXTURES.
- Ⓛ RECESSED DOWN LIGHT.
- Ⓛ SHADING DENOTES FIXTURE HAS AN EMERGENCY BATTERY BACK-UP.
- Ⓛ EXIT SIGN- SHADED QUADRANT HAS A LETTERED FACE AND ARROW INDICATES DIRECTION.

OTHER:

- Ⓛ CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
- Ⓛ CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.
- Ⓛ HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12, #12G, 1/2" C. TICK MARKS INDICATE # OF CONDUCTORS (EGC NOT INCLUDED). MINIMUM SIZE ON HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.
- Ⓛ MECHANICAL EQUIPMENT IDENTIFICATION TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.
- Ⓛ LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS & DETAILS.
- Ⓛ SHEET NOTE TAG.
- Ⓛ PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION TAG.
- Ⓛ LEADERS.

ABBREVIATIONS

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|-------|--|-----|---------------|
| A | AC | AMP | ABOVE COUNTER |
| AF | AMP FRAME | | |
| AFF | ABOVE FINISHED FLOOR | | |
| AHU | AIR HANDLING UNIT | | |
| ARCH | ARCHITECT OR ARCHITECTURAL | | |
| AT | AMP TRIP | | |
| ATS | AUTOMATIC TRANSFER SWITCH | | |
| AWG | AMERICAN WIRE GAUGE | | |
| BKR | CIRCUIT BREAKER | | |
| BLDG | BUILDING | | |
| C | CONDUIT | | |
| C/B | CIRCUIT BREAKER | | |
| CL | CURRENT LIMITING | | |
| C/L | CENTERLINE | | |
| CLG | CEILING | | |
| CKT | CIRCUIT | | |
| CT | CURRENT TRANSFORMER | | |
| CU | COPPER | | |
| DDC | DIRECT DIGITAL CONTROL | | |
| EGC | EQUIPMENT GROUNDING CONDUCTOR | | |
| ELEC | ELECTRICAL | | |
| EF | EXHAUST FAN | | |
| EMT | ELECTRIC WATER COOLER | | |
| EMT | ELECTRICAL METALLIC TUBING | | |
| EQUIP | EQUIPMENT | | |
| FMC | FLEXIBLE METAL CONDUIT | | |
| FACP | FIRE ALARM SYSTEM CONTROL PANEL | | |
| FU | FUSE | | |
| F/A | FIRE ALARM | | |
| FLA | FULL LOAD AMPS | | |
| FLR | FLOOR | | |
| GFI | GROUND FAULT INTERRUPTER | | |
| G | GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT) | | |
| GND | GROUND | | |
| GEC | GROUNDING ELECTRODE CONDUCTOR | | |
| HH | HANDHOLE | | |
| HP | HEAT PUMP OR HORSEPOWER | | |
| HVAC | HEATING, VENTILATION & AIR-CONDITIONING | | |
| IG | ISOLATED GROUND | | |
| JB | JUNCTION BOX | | |
| K | KILO | | |
| KAIC | KILO-AMPERE INTERRUPTING CAPABILITY | | |
| LCP | LIGHTING CONTROL PANEL | | |
| LTG | LIGHTING | | |
| LFMC | LIQUID TIGHT FLEXIBLE METAL CONDUIT | | |
| MCA | MINIMUM CIRCUIT AMPACITY | | |
| MCC | MOTOR CONTROL CENTER | | |
| MCM | THOUSAND CIRCULAR MILS | | |
| MIN | MINIMUM | | |
| MISC | MISCELLANEOUS | | |
| MLO | MAIN LUGS ONLY | | |
| MTG | MOUNTING | | |
| N1 | NEMA 1 | | |
| N3R | NEMA 3R | | |
| N/A | NOT APPLICABLE | | |
| NEC | NATIONAL ELECTRICAL CODE | | |
| NESC | NATIONAL ELECTRICAL SAFETY CODE | | |
| NEU | NEUTRAL | | |
| OCPO | OVERCURRENT PROTECTION DEVICE | | |
| PBD | PANELBOARD | | |
| PF | POWER FACTOR | | |
| PWR | POWER | | |
| RCPT | RECEPTACLE | | |
| REQD | REQUIRED | | |
| RM | ROOM | | |
| RGS | RIGID GALVANIZED STEEL CONDUIT | | |
| RNC | RIGID NON-METALLIC CONDUIT | | |
| SCA | SHORT CIRCUIT AMPS | | |
| SPEC | SPECIFICATION | | |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION | | |
| TYP | TYPICAL | | |
| UG | UNDERGROUND | | |
| UL | UNDERWRITERS' LABORATORIES | | |
| UNO | UNLESS NOTED OTHERWISE | | |
| V | VOLT | | |
| VA | VOLT-AMPERES | | |
| W | WATTS | | |
| WP | WEATHERPROOF | | |
| WSR | WITHSTAND RATING | | |
| XFMR | TRANSFORMER | | |
| XP | EXPLOSION PROOF | | |
| φ | PHASE | | |
| 72 | DEGREES | | |

DIVISION 17 CONTRACTOR RESPONSIBILITIES & COORDINATION NOTE

FOR THE DIVISION 17 (TELECOMMUNICATIONS) DRAWINGS AND SPECIFICATIONS INCLUDED IN THIS PROJECT THE FOLLOWING APPLY:

GROUNDING:
THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR INSTALLING THE GROUNDING BUSBARS AS SHOWN ON THE DRAWINGS AND CONNECTING THEM TO THE BUILDINGS MAIN ELECTRICAL SERVICE GROUND. THE EC SHALL ALSO BE RESPONSIBLE FOR GROUNDING ALL BACKBONE CONDUIT AND CABLE TRAY. THE STRUCTURED CABLING SYSTEM CONTRACTOR (SCSC) SHALL BE RESPONSIBLE FOR GROUNDING ALL RACKS, PROTECTOR BLOCKS, CABLE LADDER TRAY IN COMMUNICATION ROOMS TO THE LOCAL TGB.

FIRESTOPPING:
THE EC SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE SCSC SHALL BE RESPONSIBLE FOR FIRESTOPPING INSIDE THE SLEEVES AFTER INSTALLATION OF CABLING IS COMPLETE.

RACEWAYS:
THE EC SHALL BE RESPONSIBLE FOR ALL BACKBONE CONDUIT, CABLE TRAYS AND CABLING PATHWAYS. THIS IS TO INCLUDE ALL INTERIOR AND EXTERIOR CONDUIT, ALL WALL PENETRATIONS AND CONDUIT SLEEVES WHETHER SHOWN ON THE DRAWINGS OR AS REQUIRED TO PENETRATE FULL HEIGHT PARTITIONS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONDUIT PATHWAYS SHALL INCLUDE ALL PULLBOXES, PULLTAPE, PULLSTRINGS, CONDUIT MARKINGS, ETC. ALL CONDUIT SHALL BE INSTALLED ACCORDING TO THE CONDUIT NOTES AS SHOWN ON THE DRAWINGS. PROVIDE END BUSHINGS ON ALL CONDUIT. THE SCSC SHALL BE RESPONSIBLE FOR THE FOLLOWING ITEMS IN TELECOMMUNICATIONS ROOMS ONLY: RUNWAYS, D-RINGS, CABLE TRAY, CABLE TIES AND/OR ANY OTHER REQUIREMENTS FOR ROUTING AND SECURING CABLE IN THE TELECOMMUNICATIONS ROOMS. THE SCSC SHALL PROVIDE ANY INNERDUCT IN BACKBONE CONDUITS AS REQUIRED IN THE SPECIFICATIONS AND DRAWINGS. WAP ENCLOSURES SHALL BE OFCI, WAP ELECTRONICS SHALL BE OFOI.

COMMUNICATIONS CABLING:
THE SCSC SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, TERMINATING AND LABELING ALL COMMUNICATIONS CABLES.

COMMUNICATIONS OUTLETS:
THE EC SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH THE COMMUNICATIONS OUTLETS. SCSC SHALL PROVIDE ALL CABLING AND COMMUNICATIONS OUTLET DEVICES AND FACEPLATES.

BACKBOARDS:
THE SCSC SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL BACKBOARDS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE SYSTEM. THE EC SHALL BE RESPONSIBLE FOR ROUGH-IN OF ELECTRICAL CONDUIT PRIOR TO INSTALLATION OF BACKBOARDS. ALL POWER CONDUIT SHALL BE CONCEALED BEHIND ALL BACKBOARDS. BACKBONE CONDUIT SHALL BE EXPOSED.

THIS LIST IS NOT COMPREHENSIVE. THE STRUCTURED CABLING SYSTEM CONTRACTOR (SCSC) SHALL BE RESPONSIBLE FOR ANY ADDITIONAL REQUIREMENTS SHOWN ON THE TELECOMMUNICATIONS DRAWINGS AND/OR REQUIRED TO PROVIDE A COMPLETE SYSTEM.



606 N.E. First Street
Gainesville, Florida 32601
352 / 372-0425
FAX 352 / 372-0427

Clay Electric Cooperative, Inc.



NEW DISTRICT OFFICE
1659 SW State Road 47 Lake City, Florida



ELECTRICAL LEGEND

DRAWN	BNH
CHECKED	MTR
DATE	02/07/12
CAD	3702060/CD

REVISIONS

FILE NO.	3702.060
S H E E T	

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Bid Documents



Moses & Associates, Inc. Consulting Engineers
2209 NW 40th Terrace, Ste A
Gainesville, FL 32605
FL License EB-0003097

M&A Project No. 11238

352-372-1911
f 352-372-0186
moses-eng.com