

Order Plan

ELECTRICAL NOTES

PART 1 - GENERAL
A. REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS
1. ALL EQUIPMENT, MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ONE OR MORE OF THE FOLLOWING:
a. NATIONAL ELECTRICAL CODE (NEC), NFPA-70 (2017)
b. LIFE SAFETY CODE, NFPA-101 (2012)
c. INTERNATIONAL ENERGY CONSERVATION CODE (IECC), (2009), WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2011) (2012)
d. INTERNATIONAL BUILDING CODE, (2012) WITH GEORGIA AMENDMENTS (2014) (2015) (2017)
e. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
f. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
g. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
h. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
i. ILLUMINATING ENGINEERING SOCIETY (IES)
j. UNDERWRITERS LABORATORIES (UL)
k. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72)
l. FEDERAL SPECIFICATION (FED. SPEC.)
m. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
B. SCOPE OF WORK
1. THE CONTRACTOR SHALL VISIT THE JOB SITE AND REVIEW CONSTRUCTION AND VENDOR DRAWINGS FOR ALL TRADES PRIOR TO BID TO BECOME FAMILIAR WITH THE PROJECT AND INTENT OF THE DRAWINGS.
2. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR WORK TO BE COMPLETED AND INCLUDE COST FOR ALL PERMIT FEES, PERMITS, INSPECTIONS AND TESTING IN THE BID.
3. THE CONTRACTOR SHALL PROVIDE ALL NEW MATERIAL IN ACCORDANCE WITH THESE DOCUMENTS AND APPLICABLE SPECIFICATIONS.
4. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES TO THE ARCHITECT/ENGINEER FOR WRITTEN DIRECTION/INSTRUCTIONS FOR CHANGES NECESSARY IN THE WORK.
5. THE CONTRACTOR SHALL NOT SCALE THE ELECTRICAL DRAWINGS, REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND NOTATIONS.
6. THE CONTRACTOR IS EXPECTED TO PROVIDE ALL MATERIAL NECESSARY FOR A COMPLETE OPERATING SYSTEM. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION.
7. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES AND MAKE PROPER PROVISIONS IN RELATION TO THEIR WORK. ANY CHANGES REQUIRED DUE TO LACK OF COORDINATION, SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF THEIR WORK.
9. THE CONTRACTOR SHALL SUBMIT EQUIPMENT DATA AND SHOP DRAWINGS IN ELECTRONIC FORMAT AND AS DIRECTED BY GENERAL PROJECT REQUIREMENTS IN PROJECT MANUAL, AS APPLICABLE. SUBMITTALS SHALL CONTAIN MATERIAL UTILIZED IN THE PROJECT FOR APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO BEGINNING ANY WORK OR ORDERING ANY MATERIAL. THE MATERIAL SHALL CONTAIN ALL ELECTRICAL EQUIPMENT INCLUDING SWITCH GEAR, PANELBOARDS, TRANSFORMERS, DISCONNECTS, SAFETY SWITCHES LIGHT FIXTURES, LIGHTING CONTROLS, WIRING DEVICES, COVER PLATES AND CONDUCTORS.
10. THE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY A LICENSED ELECTRICAL CONTRACTOR.
11. THE CONTRACTOR SHALL PROVIDE INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR DURATION OF THE PROJECT.
12. NO COMBUSTIBLE MATERIALS, IE: PVC CONDUIT, NON-PLENUM RATED CABLING, ETC., ARE ALLOWED ABOVE ANY CEILING.
C. TERMS
1. "PROVIDE", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS TO FURNISH AND INSTALL COMPLETE.
2. "WIRING", AS USED IN THE DOCUMENTS MEANS CONDUIT AND WIRES WITHIN THE CONDUIT SYSTEM.
3. "CONCEALED", AS USED IN THE DOCUMENTS AND APPLICABLE SPECIFICATIONS MEANS EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, BEHIND WALLS, INSIDE CABINETS OR ABOVE SUSPENDED CEILING.
4. "NEMA 1", INDICATES THE ENCLOSURE SHALL BE LISTED FOR INDOOR USE ONLY.
5. "NEMA 3R", INDICATES THE ENCLOSURE SHALL BE LISTED FOR EXTERIOR USE.
D. WARRANTY
1. ALL MATERIAL AND WORK PERFORMED SHALL BE GUARANTEED FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
2. ANY CORRECTIONS FOR DEFECTIVE MATERIALS AND/OR INSTALLATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE DURING THE WARRANTY PERIOD.
PART 2 - PRODUCTS
A. DISTRIBUTION AND BRANCH CIRCUIT PANEL BOARDS
1. CURRENT CARRYING BUSES AND GROUND BARS SHALL BE COPPER.
2. ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE, PLUG ON TYPE CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
3. ALL CIRCUIT BREAKERS USED FOR MECHANICAL EQUIPMENT SHALL BE "HACR" TYPE.
4. AIC RATINGS SHALL BE INDICATED ON THE BRANCH CIRCUIT PANEL SCHEDULES.
5. ALL PANEL BOARDS SHALL BE LABELED WITH PLASTIC LAMINATE IDENTIFICATION PLATES THAT ARE ENGRAVED WITH 1/4" LETTERING.
6. ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN SCHEDULE OF BRANCH CIRCUIT DESCRIPTIONS.
7. CIRCUIT BREAKERS SHALL MEET ALL PROVISIONS OF NEC 210.12 ALL CIRCUIT BREAKERS (OR OTHER LISTED MEANS) SUPPLYING 120 VOLT, SINGLE PHASE 15 AND 20 AMP OUTLETS OR DEVICES INSTALLED IN GUEST ROOMS, GUEST SUITES, DORMITORY UNITS AND CIRCUITS SUPPLYING OUTLETS AND DEVICES OR SIMILAR ROOMS SHALL BE ARC FAULT CIRCUIT INTERRUPTER TYPE.
B. DISCONNECT SWITCHES AND MOTOR STARTERS
1. SWITCHES SHALL BE H.P. RATED, HEAVY DUTY TYPE.
2. QUICK-MAKE, QUICK-BREAK OPERATING MECHANISM.
3. STARTERS SHALL BE COMBINATION TYPE, FUSIBLE WITH BIMETAL OVERLOADS IN EACH PHASE.
4. STARTERS SHALL HAVE A "HAND-OFF-AUTO" (HOA) SWITCH UNLESS NOTED OTHERWISE.
C. CONDUCTORS
1. MINIMUM SIZE SHALL BE #12 AWG, EXCEPT FOR CONTROL/LOW VOLTAGE WIRING.
2. INSULATION TYPE SHALL BE THHN.
3. ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.
D. WIRING DEVICES (GENERAL PURPOSES)/FACEPLATE
1. RECEPTACLES SHALL MEET ALL PROVISIONS OF NEC 406.12 (TYPE, RESISTANT TO FIRE, GROUND FAULT (GFCI), ARC-FAULT, (AFCI) AND WEATHER-RESISTANT) WHEN REQUIRED BY 210.8.
2. PAINTED WALL LOCATIONS, PROVIDE WHITE DEVICE WITH SMOOTH, WHITE PLATE. UNLESS DIRECTED OTHERWISE.
3. WOOD STAINED AND TILED LOCATIONS, PROVIDE BLACK DEVICE WITH BRUSHED STAINLESS STEEL FACEPLATE, UNLESS DIRECTED OTHERWISE.
4. FOR EXTERIOR WALL LOCATIONS, PROVIDE WASHINGTON DB SERIES OR EQUIVALENT RECESS STEEL BOX AND WEATHERPROOF-IN-USE, LOW PROFILE FLAR COVER, WHITE TRIM.
E. JUNCTION BOXES
1. INTERIOR LOCATIONS SHALL BE PRESSED STEEL.
2. EXTERIOR LOCATIONS SHALL BE HEAVY DUTY CAST ALUMINUM WITH THREADED HUBS.
F. CONDUIT
1. EMT SHALL BE GALVANIZED STEEL.
2. PVC SHALL BE SCHEDULE 40 WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
3. PVC SHALL BE SCHEDULE 40 WHERE EXPOSED TO PHYSICAL DAMAGE.
4. MC CABLE IS ACCEPTABLE WITH LIGHT WEIGHT ALUMINUM INTERLOCKED ARMOR AND INTERNAL REDUNDANT GROUND.
PART 3 - EXECUTION
A. COLOR CODING FOR CONDUCTORS SHALL BE THE FOLLOWING:
1. 480/277 VOLT, THREE PHASE, FOUR WIRE SYSTEM: A PHASE-BROWN, B PHASE-PURPLE, C PHASE-LOW GROUND (NEUTRAL)-GREY AND GROUNDING-GREEN.
2. 208/120 VOLT, THREE PHASE, FOUR WIRE SYSTEM: A PHASE-BLACK, B PHASE-RED, C PHASE-BLUE, GROUND (NEUTRAL)-WHITE AND GROUNDING-GREEN.
3. CONDUCTORS AND SERVICES AND BRANCH CIRCUITS #6 AND LARGER SHALL BE IDENTIFIED BY COLOR CODING, MARKING TAPE OR OTHER APPROVED MEANS.
B. WIRING METHODS
1. CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS NOTED OTHERWISE. CONDUIT FITTINGS SHALL BE STEEL SET SCREW OR COMPRESSION TYPE.
2. EMT, AS INDICATED IN PART 2-PRODUCTS (P) SHALL BE INSTALLED BELOW SLAB, UNDERGROUND AND UNLESS WHERE LISTED FOR SUCH USE.
3. WIRE PIPES, AS INDICATED IN PART 2-PRODUCTS (P) IS ACCEPTABLE FOR USE WITH GENERAL BRANCH CIRCUITS, RATED 20 AMPERES OR LESS, CONCEALED IN WALLS AND ABOVE SUSPENDED CEILING, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. IT IS NOT INTENDED TO USE MC CABLE EXPOSED.
4. INSTALLATIONS WITHIN HAZARDOUS (CLASSIFIED) LOCATIONS SHALL MEET ALL REQUIREMENTS FOR THE LOCATION PER NEC 500. PENETRATIONS INTO CLASSIFIED LOCATIONS SHALL BE PROVIDED WITH SEALS AND ALL RACEWAYS WITHIN CLASSIFIED LOCATIONS SHALL BE RIGID STEEL. ALL ELECTRICAL EQUIPMENT INSTALLED IN CLASSIFIED AREAS SHALL BE LISTED FOR USE WITHIN THE LOCATION.
5. ALL CONDUITS SHALL BE INSTALLED WITHIN WALL SYSTEM, NO EXPOSED VISIBLE CONDUITS SHALL BE ALLOWED. FOR CONCRETE MASONRY UNIT WALLS (CMU) THE CONDUIT SHALL BE INSTALLED WITHIN VERTICAL CELLS OF BLOCKS AND FOR PRE-ENGINEERED METAL BUILDING WALLS (PEMB) THE CONDUIT SHALL BE INSTALLED BEHIND WALL PANEL.
C. MISCELLANEOUS
1. LAY-IN TYPE LIGHTING FIXTURES SHALL BE SECURED ON ALL FOUR SIDES TO SUSPENDED CEILING.
2. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED IN THE PANEL SCHEDULES TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST DEVICE. LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR BOX OF CIRCUIT BREAKER SIZE, WHICH EVER IS GREATER. CONTACT ENGINEER OF RECORD FOR ALL CIRCUIT RUNS IN EXCESS OF 100 FT. FOR CALCULATION OF WIRE SIZE. FOR BID PURPOSES, INCREASE WIRE SIZE BY ONE FOR CIRCUIT RUNS BETWEEN 100 FT. AND 200 FT. AND TWO WIRE SIZES FOR CIRCUIT RUNS GREATER THAN 200 FT.
3. SHOP DRAWING AND SUBMITTAL REVIEW OF EQUIPMENT OR PRODUCTS OTHER THAN SPECIFIED MAY BE AT THE EXPENSE OF THE CONTRACTOR.
D. GROUNDING
1. THE ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED PER THE LATEST EDITION OF THE NEC AND LOCAL CODES. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE COPPER.
E. COORDINATION
1. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY PRIOR TO STARTING WORK FOR METERING REQUIREMENTS, METERING LOCATION, TRANSFORMER CONDUIT REQUIREMENTS, LUG SIZE REQUIREMENTS AND EXACT SERVICE POINT CONNECTION. SERVICE SHUT DOWN SHALL BE COORDINATED WITH THE OWNER PRIOR TO SCHEDULING WITH UTILITY COMPANY. CONTRACTOR SHALL INSTALL CONDUITS FOR UTILITY PRIMARY FEEDER PER UTILITY GUIDELINES.
2. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL TELEPHONE AND CABLE TV COMPANY PRIOR TO STARTING WORK FOR EXACT SERVICE POINT CONNECTION AND ANY REQUIREMENTS ANY ONE OF THE PROVIDERS MAY NEED.
3. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, PLUMBING AND VENDOR DOCUMENTS AND SUBMITTALS PRIOR TO PURCHASING ELECTRICAL EQUIPMENT. COORDINATE ALL CONTROL WIRING REQUIRED FOR ALL EQUIPMENT RELATED TO THE PROJECT. PROVIDE ELECTRICAL BREAKERS, DISCONNECTS AND CONDUCTORS AS REQUIRED PER MECHANICAL SUBMITTALS AND ACTUAL EQUIPMENT NAMEPLATE RATINGS.
4. THE CONTRACTOR SHALL LOCATE ALL RECEPTACLES, SWITCHES, BREAKERS AND DISCONNECTS ON OR ADJACENT TO EQUIPMENT SERVED. DEVICES SERVING EQUIPMENT IN FINISHED SPACES SHALL BE CONCEALED WITHIN EQUIPMENT ACCESSIBLE THROUGH EQUIPMENT ACCESS PANELS, I.E. DRINKING FOUNTAINS AND WALL MOUNTED AIR HANDLING UNITS.
F. RECORD DOCUMENTS
1. THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD SET OF ANY DEVIATIONS BETWEEN THE WORK AS DESIGNED ON THESE DOCUMENTS AND THAT OF WHICH IS ACTUALLY INSTALLED. THIS RECORD SET OF DRAWINGS SHALL BE KEPT WITH THE GENERAL CONTRACTOR AND REQUIRE APPROVAL FROM THE ARCHITECT/ENGINEER.

ELECTRICAL SYMBOLS

20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
20 AMP QUADRUPLUX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.
20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESSED FLOOR MOUNTED. PROVIDE SQUARE BRUSHED NICKEL FINISH COVER PLATE WITH RECESS DEVICES. FLIP TOP COVER WITH NON-RECESS DEVICE WILL NOT BE ACCEPTED. FLOOR BOX SHALL BE LISTED FOR PROPOSED LOCATION AS REQUIRED.
20 AMP QUADRUPLUX RECEPTACLE (NEMA 5-20R), RECESSED FLOOR MOUNTED. PROVIDE SQUARE BRUSHED NICKEL FINISH COVER PLATE WITH RECESS DEVICES. FLIP TOP COVER WITH NON-RECESS DEVICES WILL NOT BE ACCEPTED. FLOOR BOX SHALL BE LISTED FOR PROPOSED LOCATION AS REQUIRED.
20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) AND COMMUNICATIONS DUAL SERVICE FLOOR BOX. RECESSED FLOOR MOUNTED. PROVIDE 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE SQUARE BRUSHED NICKEL FINISH COVER PLATE WITH RECESS DEVICES, FLIP TOP COVER WITH NON-RECESS DEVICES WILL NOT BE ACCEPTED. FLOOR BOX SHALL BE LISTED FOR PROPOSED LOCATION AS REQUIRED.
20 AMP QUADRUPLUX RECEPTACLE (NEMA 5-20R) AND COMMUNICATIONS DUAL SERVICE FLOOR BOX. RECESSED FLOOR MOUNTED. PROVIDE 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE SQUARE BRUSHED NICKEL FINISH COVER PLATE WITH RECESS DEVICES, FLIP TOP COVER WITH NON-RECESS DEVICES WILL NOT BE ACCEPTED. FLOOR BOX SHALL BE LISTED FOR PROPOSED LOCATION AS REQUIRED.
SPECIAL PURPOSE POWER DEVICE, COORDINATE EXACT NEMA NUMBER DEVICE WITH EQUIPMENT PLUG UNLESS NOTED OTHERWISE.
COMMUNICATIONS OUTLET. PROVIDE 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. MOUNT AT 18" A.F.F. TO CENTER OF OUTLET UNLESS NOTED OTHERWISE.
COMMUNICATIONS OUTLET. PROVIDE 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. MOUNTED ABOVE COUNTER TOP, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION.
RECEPTACLE AND COMMUNICATIONS OUTLET. PROVIDE (2) 1" CONDUIT SLEEVES WITH CABLING, STUB INTO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT OF BOX WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. PROVIDE FOUR GANG, RECESSED MOUNTED STEEL BOX WITH VOLTAGE DIVIDER AND OPTIONAL COVER PLATE. ARLINGTON TV5813 OR EQUIVALENT.
DEVICE MOUNTED IN CABINETS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT.
GROUND FAULT CIRCUIT INTERRUPTER VIA RECEPTACLE
GROUND FAULT CIRCUIT INTERRUPTER VIA CIRCUIT BREAKER
RECEPTACLE WITH INTEGRATED UNIVERSAL SERIAL BUS PORT
TELEVISION OUTLET. PROVIDE 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
JUNCTION BOX
PROPOSED ROUTING OF LOW VOLTAGE WIRING FOR DIAGNOSTIC PURPOSES ONLY.
SINGLE POLE, 20 AMP SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE.
2-WAY, 20 AMP SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE.
3-WAY, 20 AMP SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE.
LIGHTING CONTROL OVERRIDE SWITCH FOR MANUAL CONTROL OF ASSIGNED RELAY PANEL ZONES. MATCH SWITCH WITH RELAY PANEL SYSTEM PROVIDED. OTHER TO OVERRIDE SWITCH SCHEDULE IN LIGHTING PLANS FOR ASSIGNED ZONES.
POLE, 20 AMP, MOTION ONLY SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
SENSOR SWITCH "WSD" SERIES.
SINGLE/DOUBLE POLE, 20 AMP MOTION/SOUND SWITCH, PASSIVE (PIR) AND ULTRASONIC (US) DUAL TECHNOLOGY. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS NOTED OTHERWISE. SENSOR SWITCH "WSD-PDT" SERIES.
LINE VOLTAGE MOTION SENSOR, PASSIVE (PIR) SENSORSWITCH "CMR" SERIES.
LINE VOLTAGE, MOTION/SOUND SENSOR, PASSIVE (PIR) AND ULTRASONIC (US) DUAL TECHNOLOGY. SENSORSWITCH "CMR-PDT" SERIES.
LINE VOLTAGE MOTION SENSOR, PASSIVE (PIR), WET LOCATION RATED ATLAS LIGHTING PRODUCTS "MS360WL" SERIES
LOW VOLTAGE MOTION SENSOR, PASSIVE (PIR) SENSORSWITCH "CM" SERIES.
LOW VOLTAGE MOTION/SOUND SENSOR, PASSIVE (PIR) AND ULTRASONIC (US) DUAL TECHNOLOGY. SENSORSWITCH "CM-PDT" SERIES.
SELF CONTAINED, PLENUM RATED, DUAL CIRCUIT POWER PACK WITH 20 AMP RATING. SENSORSWITCH "PP" SERIES.
ELECTRICAL PANELBOARD, SURFACE MOUNTED
ELECTRICAL PANELBOARD, RECESSED MOUNTED
FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING
GROUNDING ELECTRODE AND CONDUCTOR SYSTEM
TRANSFORMER
TELEPHONE WOOD BACKBOARD
EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR SPECIFICATIONS.
THERMOSTAT LOCATION. REFER TO MECHANICAL DRAWINGS FOR MOUNTING HEIGHT AND SPECIFICATIONS. PROVIDE JUNCTION BOX IN WALL BEHIND THERMOSTAT WITH 1" CONDUIT SLEEVE WITH PULL STRING, STUB INTO ACCESSIBLE CEILING SPACE. CONDUIT AND BOXES SHALL BE CONCEALED / RECESSED IN CONCRETE BLOCK (CMU) WALLS.
MOTORIZED DAMPER (ELECTRICAL POWER REQUIRED). REFER TO MECHANICAL DRAWINGS FOR REQUIREMENTS AND SPECIFICATIONS.
FIRE SMOKE DAMPER (ELECTRICAL POWER REQUIRED). REFER TO MECHANICAL DRAWINGS FOR REQUIREMENTS AND SPECIFICATIONS.
CARBON MONOXIDE CONTROL PANEL (ELECTRICAL POWER REQUIRED). REFER TO MECHANICAL DRAWINGS FOR REQUIREMENTS AND SPECIFICATIONS.
GARAGE DOOR CONTROL SWITCH, PROVIDE CONNECTIONS ACCORDING TO MANUFACTURER RECOMMENDATIONS
GARAGE DOOR MOTION SENSOR, PROVIDE CONNECTIONS ACCORDING TO MANUFACTURER RECOMMENDATIONS
WEATHERPROOF
NIGHT LIGHT FIXTURE, WIRE FIXTURE AHEAD OF LOCAL SWITCHING, CONTACTORS AND RELAYS
USED FOR CLARITY PURPOSES AS FOLLOWS:
- TO CONNECT GROUPS OF MULTIPLE DEVICES/LIGHT FIXTURES IN DIFFERENT LOCATIONS TOGETHER ON THE SAME BRANCH CIRCUIT AS INDICATED.
- TO INDICATE BRANCH CIRCUIT USED IN DIFFERENT LOCATIONS, FOLLOW KEYNOTES AS INDICATED.
GENERAL FLOOR BOX NOTE:
REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS AND FINAL LOCATIONS PRIOR TO ROUGH IN

ELECTRICAL SHEET INDEX

Table with 2 columns: SHEET#, DESCRIPTION. Rows include E0.1 ELECTRICAL NOTES, E0.2 ELECTRICAL NOTES, E1.1 SITE POWER PLAN, E1.2 SITE PHOTOMETRIC PLAN, E2.1 LIGHTING PLAN, E2.2 SECOND FLOOR ELECTRICAL PLANS, E3.1 POWER PLAN, E4.1 MECHANICAL POWER PLAN, E4.2 SECOND FLOOR MECHANICAL POWER PLAN, E4.3 ROOF MECHANICAL POWER PLAN, E5.1 ELECTRICAL RISER DIAGRAM, E6.1 ELECTRICAL PANEL SCHEDULES, E6.2 ELECTRICAL PANEL SCHEDULES, E7.1 ELECTRICAL PANELS.

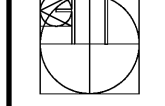
SUBMITTALS AND SHOP DRAWINGS REQUIREMENTS

- 1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SHOP DRAWINGS FOR APPROVAL AND ASSEMBLE PER ELECTRONIC (PDF) PACKAGES PER SCHEDULE BELOW. INDIVIDUAL SUBMITTALS NOT ORGANIZED PER PACKAGES SHALL RESULT IN REJECTION OF SUBMITTAL.
2. COORDINATE WITH GENERAL PROJECT TERMS AND CONDITIONS FOR SUBMITTING PROCEDURES AND PROCESS.
3. CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. MARK WITH APPROVAL STAMP BEFORE SUBMITTING TO ARCHITECT. FAILURE TO COMPLY WITH REQUIREMENTS IDENTIFIED HEREIN SHALL RESULT IN REJECTION OF SUBMITTAL.
4. SUBMITTAL PACKAGES
PACKAGE 1 - ELECTRICAL LIGHTING
PACKAGE 2 - SWITCHGEAR
PACKAGE 3 - ELECTRICAL DEVICES
PACKAGE 4 - FIRE ALARM
5. ALL FIXTURES AND EQUIPMENT SHALL BE ORGANIZED AND CLEARLY MARKED WITH TAGS MATCHING CONSTRUCTION DOCUMENTS.
6. MARK EACH SUBMITTAL TO SHOW WHICH PRODUCTS AND OPTIONS ARE APPLICABLE AND INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE: MANUFACTURER'S CATALOG CUTS AND MANUFACTURER'S PRODUCT SPECIFICATIONS. GENERIC PRODUCT DATA SHALL NOT BE ACCEPTABLE.
7. IDENTIFY DEVIATIONS FROM THE CONTRACT DOCUMENTS ON SUBMITTALS. ANY COSTS INCURRED BY THE ENGINEER FOR DEVIATIONS REQUIRING REDESIGN OR EXTENSIVE REVIEW SHALL BE PAID BY CONTRACTOR.



Table for REVISION DATE with columns for revision number and date.

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DATE: 11.06.2018
SCALE: AS SHOWN
BY: GD
JOB ID:

ELECTRICAL NOTES
DRAWING TITLE

E0.1
SHEET 1 OF 14

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