

- COMPLY WITH THE NATIONAL ELECTRIC CODE, STATE AND LOCAL CODES.
- PORTIONS OF WALLS AND ARCHITECTURAL FEATURES MAY HAVE BEEN OMITTED FROM THIS PLAN FOR CLARITY OF ELECTRICAL FEATURES. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF WALLS AND FIXTURES, AND DIMENSIONS.
- VERIFY FIELD DIMENSIONS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
- LOCATIONS OF FIXTURES AND EQUIPMENT ON DRAWINGS ARE APPROXIMATE ONLY. OFFSET AS REQUIRED OR AS REQUESTED BY OWNER.
- ALL RACEWAY EXPOSED ON EXTERIOR SHALL BE RIGID GALVANIZED STEEL. EMT SHALL NOT BE ACCEPTABLE.
- ALL EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO THE CIRCUIT SERVING THE GENERAL LIGHTING IN THE SAME AREA AND SHALL BE UNSWITCHED. EXHAUST FANS SHALL BE SWITCHED WITH LIGHTS UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ALL ELECTRICAL PANELS SHALL HAVE ENGRAVED LAMINATED (BLACK ON WHITE) LABELS IDENTIFYING THEM AS INDICATED ON DRAWINGS.
- INSTALL A MINIMUM OF 6 EMPTY 3/4" CONDUITS WITH PULL WIRES UP FROM EACH RECESSED LIGHTING PANEL TO ABOVE THE CEILING SPACE.
- COLOR OF WRING DEVICES AND PLATES SHALL BE AS SELECTED BY ARCHITECT.
- COORDINATE EXACT LOCATION OF FLOOR OUTLETS WITH ARCHITECT.
- FLEXIBLE RACEWAY CONNECTIONS TO LIGHT FIXTURES SHALL BE LIMITED TO 72" IN LENGTH. FLEXIBLE RACEWAY CONNECTIONS TO MOTORS AND EQUIPMENT SHALL BE LIMITED TO 36" IN LENGTH.
- CONDUCTOR SIZES INDICATED ON THE DRAWINGS HAVE BEEN SELECTED TO PROVIDE FOR ACCEPTABLE VOLTAGE DROP. DO NOT REDUCE WIRE SIZES SHOWN WITHOUT CONSENT OF ENGINEER.
- INSURE THAT INSULATION BATTS ARE KEPT AT LEAST 4" FROM RECESSED LIGHT FIXTURES.
- SEE SITE PLAN FOR EXTERIOR LIGHTING AND WIRING.
- ENSURE THAT ALL PENETRATIONS OF FIRE WALLS AND DECKS ARE PROPERLY SEALED PER ICC, APPLICABLE UL ASSEMBLIES, AND SPECIFICATIONS.
- ALL COMPONENTS USED IN PLENUM SPACES SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
- MATERIALS AND ALL COMPONENTS THEREOF SHALL BE NEW AND SHALL BE UL APPROVED WHERE A STANDARD HAS BEEN ESTABLISHED. COMPONENTS SHALL BE EQUAL TO THOSE SCHEDULED ON DRAWINGS.
- OUTLET, JUNCTION, AND PULL BOXES SHALL BE GALVANIZED STEEL. CODE GAUGE SIZE. THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ANY ADDITIONAL COST.
- FIRE ALARM SIGNAL CIRCUIT WIRING SHALL BE POWER LIMITED CABLE CONSISTING OF 2 #14 WITH RED JACKET, UL LISTED FOR THE USE SPECIFIED. ALL FIRE ALARM CIRCUITING SHALL BE INSTALLED IN METALLIC CONDUIT.
- COORDINATE LAYOUT CAREFULLY WITH SYSTEMS FURNITURE AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGHING IN POWER AND COMMUNICATIONS OUTLETS TO INSURE PROPER ORIENTATION OF OUTLETS WITH COMPONENTS OF THESE SYSTEMS.
- AVOID PENETRATING OUTER SKIN OF METAL BUILDING WALL AND ROOF. MOUNT EQUIPMENT ON STRUCTURAL COLUMNS AND PURLINS WHERE POSSIBLE. PROVIDE MOUNTING STRUT BETWEEN STRUCTURAL MEMBERS WHERE NECESSARY. FOR ANY UNAVOIDABLE ROOF PENETRATION, INSURE THAT METAL BUILDING MANUFACTURER'S ROOF WARRANTY REQUIREMENTS ARE SATISFIED.
- MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THIS PERIOD SHALL BE CORRECTED AT THE ELECTRICAL CONTRACTOR'S EXPENSE.

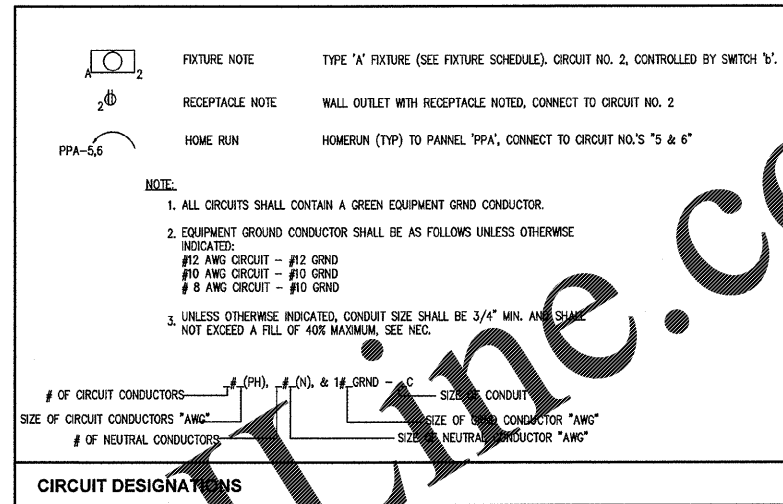
ELECTRICAL GENERAL NOTES

A	AMPERES
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
APCO	ALABAMA POWER COMPANY
AUX	AUXILIARY
BATT	BATTERY CHARGER
C	CONDUIT
CBB	COMPUTER BACKBOARD
CEIL	CEILING
CKT	CIRCUIT
CU	COPPER
EF	ROOM EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
EX	EXISTING
FLUOR	FLUORESCENT
GF	GROUND FAULT CIRCUIT INTERRUPTER
GRND	GROUND
HP	HORSEPOWER, HEAT PUMP
HR	HOUR
IG	ISOLATED GROUND
JB	JUNCTION BOX
MAX	MAXIMUM
MB	MAIN BREAKER
MD	MOTORIZED DAMPER
MN	MINIMUM
MLO	MAIN LUGS ONLY
MTR	METER
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.T.S.	NOT TO SCALE
PENE	PENETRATION
PH	PHASE, POWER HOT
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
SW	SWITCH
SYS	SYSTEM
TBB	TELEPHONE BACKBOARD
TYP	TYPICAL
V	VOLTS
VER.	VERIFY LOCATION
W	WIRE
WP	WEATHERPROOF
W/	WITH
XFR	TRANSFORMER
&	AND
#	NUMBER
3R	NEMA 3R WEATHERPROOF ENCLOSURE RATING
4X	NEMA 4X WEATHERPROOF/CORROSION RESISTANT ENCLOSURE RATING
12	NEMA 12 DUSTPROOF ENCLOSURE RATING

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION	MTG. HT.
---	ABOVEGROUND CONDUIT	
---	UNDERGROUND CONDUIT	
---	SURFACE MOUNTED FLUORESCENT STRIP.	
○	SURFACE OR RECESSED FLUORESCENT FIXTURE (TYPE DETERMINES MOUNTING)	
○	SURFACE OR RECESSED FLUORESCENT FIXTURE WITH BATTERY PACK (TYPE DETERMINES MOUNTING)	
○	WALL MOUNTED EXTERIOR LIGHT, METAL HALIDE OR COMPACT FLUORESCENT	
⊗	EXIT LIGHT WITH INTEGRAL BATTERY BACK-UP	
—	PANEL, LIGHTING OR POWER AS SPECIFIED IN PANEL SCHEDULE.	
S	SINGLE POLE SWITCH, 277V.	FIELD VERIFY
S ₃	THREE WAY SWITCH, 277V.	FIELD VERIFY
S ₂	WALL OCCUPANCY SWITCH, 277V.	FIELD VERIFY
S ₂	WALL DIMMER SWITCH, 277V.	FIELD VERIFY
⊕	120V. DUPLEX RECEPTACLE	FIELD VERIFY
⊕	120V. DUPLEX RECEPTACLE - SPECIAL MOUNTING HEIGHT	FIELD VERIFY
⊕	250V. 2-POLE SINGLE RECEPTACLE, AMPERAGE AS NOTED	FIELD VERIFY
⊕	120V. DUPLEX GF RECEPTACLE	FIELD VERIFY
⊕	120V. DUPLEX GF RECEPTACLE - SPECIAL MOUNTING HEIGHT	ABOVE COUNTER
⊕	JUNCTION BOX	
⊕	FUSED DISCONNECT SPECIFY AMP/POLE	
⊕	NON-FUSED DISCONNECT SPECIFY AMP/POLE	
⊕	CONTROL OUTLET VERIFY BOX TYPE & LOCATION W/ MECHANICAL CONTRACTOR. MECHANICAL DWGS FOR EXACT LOCATION.	
⊕	PHOTOCELL - FACE NORTH ON ROOF	
⊕	PHONE/DATA CONNECTION	

NOTE: FOLLOW ALL MOUNTING HEIGHTS THAT ARE DICTATED IN SCHEDULE UNLESS NOTED OTHERWISE ON DRAWINGS.

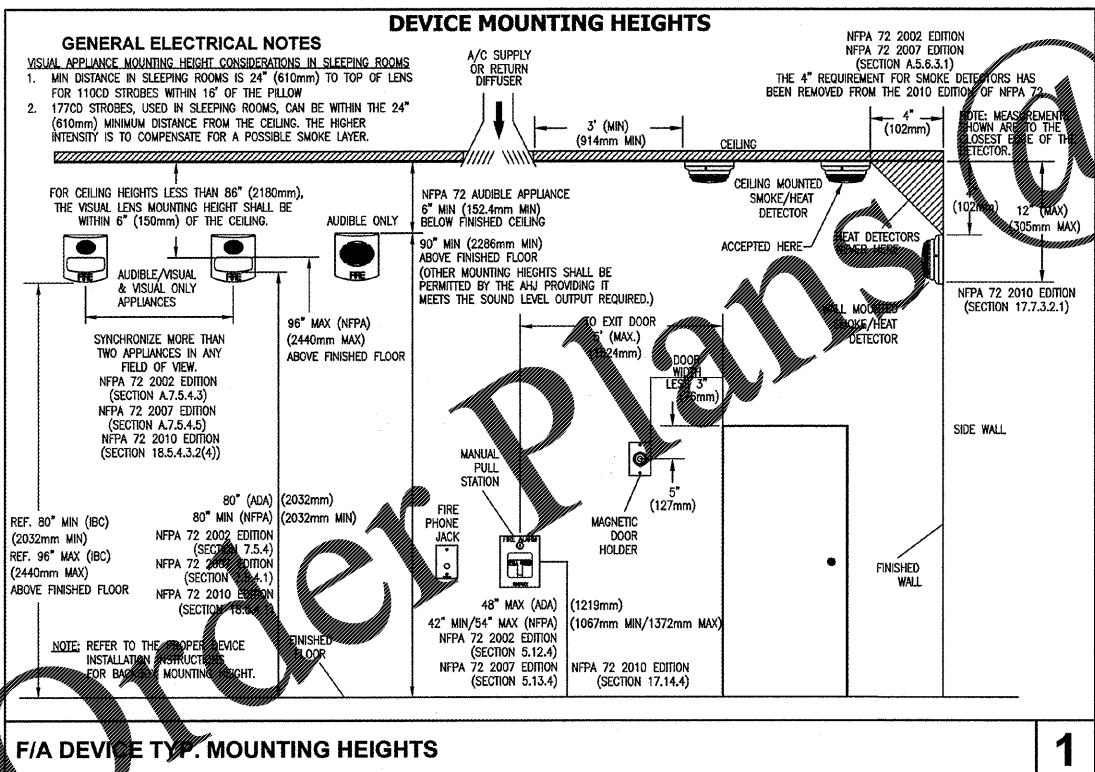


CONDUCTOR SCHEDULE

CONDUCTORS / CONDUITS SHALL BE SIZED ACCORDING TO THE FOLLOWING CHART UNLESS OTHERWISE NOTED.

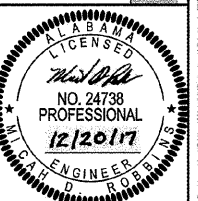
CIRCUIT BREAKER	CU PHASE WIRE (AWG)	GROUND WIRE (AWG)	CONDUIT SIZE
15	#12	#12	3/4"
20	#12	#12	3/4"
30	#10	#10	3/4"
40	#8	#10	1"
50	#8	#10	1"
60	#6	#8	1"
70	#6	#8	1"
80	#4	#8	1 1/4"
90	#4	#8	1 1/4"
100	#3	#8	1 1/4"
125	#1	#6	1 1/2"
150	#1/0	#6	2"
175	#2/0	#6	2"
200	#3/0	#6	2"
225	#4/0	#4	2 1/2"
250	#250	#4	3"
400	#500	#3	3 1/2"
500	(2)#250	#2	3 1/2"

- NOTES:
- NEUTRAL CONDUCTOR (IF REQUIRED) SHALL BE THE SAME SIZE AS PHASE CONDUCTORS.
 - ALL LIGHTING CIRCUITS SHALL UTILIZE #10 AWG WIRE FOR VOLTAGE DROPS.
 - ALL HVAC OR OTHER CYCLICAL EQUIPMENT SHALL UTILIZE HAMP TYPE CIRCUIT BREAKERS.
 - CONTRACTOR TO PROVIDE QUANTITY OF CONDUCTORS AS NECESSARY TO POWER LOADS.
 - CONDUIT SIZES BASES ON FOUR CONDUCTORS MAXIMUM. CONTRACTOR SHALL FOLLOW NEC GUIDELINES FOR DERATING AMPACITIES AND CONDUIT SIZES FOR ALL COMBINED CIRCUITS/HOMERUNS.
 - CONDUCTORS SHALL BE COPPER. INDICATED SIZES ARE FOR USE WITH COPPER CONDUCTORS.



F/A DEVICE TYP. MOUNTING HEIGHTS

1



NO.	DESCRIPTION:
1	3/23/2017

ELECTRICAL GENERAL NOTES, LEGENDS, AND SCHEDULES

DATE:	12-20-17
JOB NO.:	15-211
SHEET:	E100

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VERIFY SCALES
 BAR IS ONE INCH
 ON ORIGINAL SET.
 IF NOT ONE INCH
 ON THIS SHEET
 ADJUST SCALE
 ACCORDINGLY