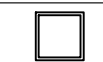

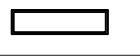
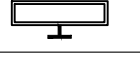

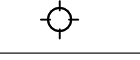


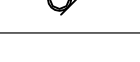


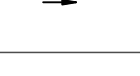

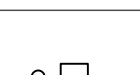
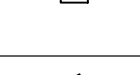

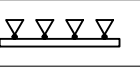

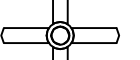
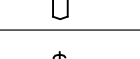
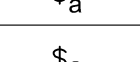
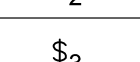
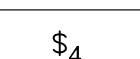
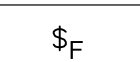
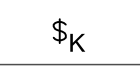
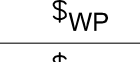

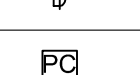
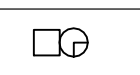
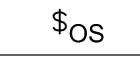

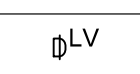


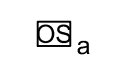


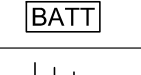
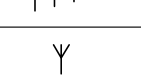
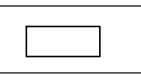
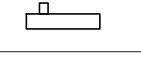
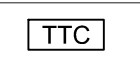






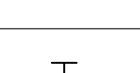
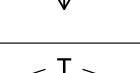
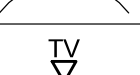
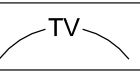

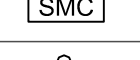
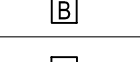
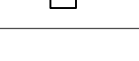


	1	2	3	4	5	6	7	8	9	10
A										
B										
C										
D										
E										
F										
G										
H										
	1	2	3	4	5	6	7	8	9	10

LIGHTING		
	2x2' LIGHT FIXTURE, CEILING MOUNTED.	f
	2'x4' LIGHT FIXTURE, CEILING MOUNTED.	f
	1'x4' LIGHT FIXTURE, CEILING MOUNTED.	f
	1'x4' LIGHT FIXTURE, WALL MOUNTED.	f
	LED STRIP LIGHT FIXTURE, SURFACE MOUNTED.	f
	CEILING MOUNTED FIXTURE WITH CEILING OUTLET BOX.	f
	DECORATIVE CEILING MOUNTED LED FIXTURE.	f
	WALL MOUNTED LIGHT FIXTURE WITH WALL OUTLET BOX.	f
	WALL WASH LIGHTING FIXTURE WITH CEILING OUTLET BOX.	f
	EMERGENCY BATTERY UNIT EQUIPMENT LIGHT FIXTURE WITH WALL OUTLET BOX. TRIANGLES IDENTIFY NUMBER OF FIXTURE HEADS, U.O.N. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES.	
	EXIT SIGN LIGHT FIXTURE WITH CEILING OUTLET BOX AND EMERGENCY BATTERY. SHADING INDICATES NUMBER OF FACES AND ORIENTATION, ARROWS. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES.	f
	EXIT SIGN LIGHT FIXTURE WITH WALL OUTLET BOX AND EMERGENCY BATTERY. SHADING INDICATES NUMBER OF FACES AND ORIENTATION, ARROWS. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES.	f
	POLE WITH MOUNTING ARM AND CUT-OFF LIGHT FIXTURE. BOXES INDICATE NUMBER OF FIXTURES AND ORIENTATION. "NL" INDICATES FIXTURE HEAD CONNECTED TO "NIGHT LIGHT" CIRCUIT (PHOTOCEL ON, PHOTOCELL OFF).	
	FACADE OR GRADE MOUNTED LANDSCAPE ACCENT LIGHT FIXTURE WITH WEATHERPROOF OUTLET BOX. TRIANGLE INDICATES NUMBER OF FIXTURES AND ORIENTATION.	
	CEILING OUTLET BOX, LIGHTING TRACK, AND FIXTURES. PROVIDE TRACK HEAD FIXTURE QUANTITY AS INDICATED ON PLANS UNLESS OTHERWISE NOTED.	f
	INCANDESCENT BATH VANITY FIXTURE.	f
	CEILING OUTLET BOX AND PADDLE FAN. INSTALL FAN PER MANUFACTURERS' RECOMMENDATIONS.	e, f
	SINGLE POLE SWITCH WITH FLUSH WALL OUTLET BOX. ("a" INDICATES SWITCH-LEG)	b, f
	DOUBLE POLE SWITCH WITH FLUSH WALL OUTLET BOX.	b, f
	THREE-WAY SWITCH WITH FLUSH WALL OUTLET BOX.	b, f
	FOUR-WAY SWITCH WITH FLUSH WALL OUTLET BOX.	b, f
	FAN CONTROL SWITCH, MINIMUM 3 SPEED SOLID STATE, WITH FLUSH WALL OUTLET BOX.	b, f
	SINGLE POLE KEY SWITCH WITH FLUSH WALL OUTLET BOX.	b, f
	SINGLE POLE SWITCH WITH FLUSH WALL OUTLET BOX AND STAINLESS STEEL WEATHERPROOF COVER.	b, f
	SINGLE POLE SWITCH AND DIE-CAST ALUMINUM, SURFACE MOUNTED OUTLET BOX WITH COPPER FREE CAST ALUMINUM WEATHERPROOF COVER.	b, f, g, h
	DIMMER SWITCH AND WALL OUTLET BOX, AS NOTED ON PLANS.	b, f
	PHOTOCELL (MATCH COIL VOLTAGE AS REQUIRED)	
	TIME SWITCH, ASTRONOMIC WITH RESERVE BATTERY, 30A CONTACTS AND COIL VOLTAGE AS REQUIRED FOR CIRCUITS, UNLESS OTHERWISE NOTED.	j
	SINGLE POLE OCCUPANCY SENSOR SWITCH WITH WALL OUTLET BOX (SENSOR SWITCH "WSX" SERIES).	b
	LOW VOLTAGE SWITCH WITH WALL OUTLET BOX WITH ON/OFF CAPABILITY. MANUFACTURED BY nLIGHT, nPODM SERIES OR EQUIVALENT.	f
	LOW VOLTAGE DIMMER CONTROL WITH WALL OUTLET BOX, MANUFACTURED BY nLIGHT, nPODM-DX SERIES OR EQUIVALENT.	b, f
	SINGLE POLE VACANCY SENSOR SWITCH WITH WALL OUTLET BOX. DUAL TECHNOLOGY SENSOR WITH PASSIVE INFRARED/SOUND SENSOR TYPE, MANUFACTURED BY SENSOR SWITCH, "WSX" SERIES OR EQUIVALENT.	b, f
	CEILING/SURFACE MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH POWER/RELAY PACKS FOR LIGHTING AND RECEPTACLE CONTROLS AND EMERGENCY POWER/RELAY PACK MANUFACTURED BY nLIGHT, nCM-PDT SERIES WITH nPP16/nPP16/nPP20-PL/nPP16-ER POWER/RELAY PACKS OR EQUIVALENT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.	a
	CEILING/SURFACE MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH POWER/RELAY PACK AND LOW VOLTAGE ON/OFF (OR DIMMING IF REQUIRED) WALL SWITCH, MANUFACTURED BY nLIGHT, nCM-PDT SERIES WITH nPP16 SERIES POWER/RELAY PACK, nPP20 PL RECEPTACLE LOAD CONTROL POWER PACK (IF REQUIRED) AND nPODM/ nPODM-DX WALL SWITCH (OR EQUIVALENT). LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.	a
	CEILING MOUNTED LOW VOLTAGE DAYLIGHT HARVESTING PHOTOCELL, MANUFACTURED BY nLIGHT, nRM-PC SERIES OR EQUIVALENT.	

POWER		
	SINGLE RECEPTACLE WITH FLUSH WALL OUTLET BOX.	a, f
	DUPLEX RECEPTACLE WITH FLUSH WALL OUTLET BOX.	a, f
	DOUBLE DUPLEX RECEPTACLE WITH TWO-GANG FLUSH WALL OUTLET BOX.	a, f
	DUPLEX RECEPTACLE, TOP HALF SWITCHED WITH FLUSH WALL OUTLET BOX.	a, f
	DUPLEX RECEPTACLE MOUNTED 2" ABOVE COUNTER BACKSPLASH WITH FLUSH WALL OUTLET BOX.	f
	DUPLEX RECEPTACLE, 20 AMP, WITH FLUSH WALL OUTLET BOX CONTROLLED/SWITCHED VIA LOCAL LIGHTING CONTROLS. PROVIDE IDENTIFICATION PER NEC 406.3 (E).	a, f
	GFI DUPLEX RECEPTACLE WITH FLUSH WALL OUTLET BOX.	a, f
	GFI DUPLEX RECEPTACLE MOUNTED 2" ABOVE COUNTER BACKSPLASH WITH FLUSH WALL OUTLET BOX.	f
	GFI DOUBLE DUPLEX RECEPTACLE MOUNTED 2" ABOVE COUNTER BACKSPLASH WITH TWO-GANG FLUSH WALL OUTLET BOX.	f
	DUPLEX RECEPTACLE AND TWO USB CHARGERS WITH FLUSH WALL OUTLET BOX.	a, f
	WEATHERPROOF GFI DUPLEX RECEPTACLE WITH FLUSH WALL OUTLET BOX AND COPPER FREE CAST ALUMINUM WEATHERPROOF COVER.	a, f
	WEATHERPROOF GFI DUPLEX RECEPTACLE AND DIE-CAST ALUMINUM, SURFACE MTD. OUTLET BOX WITH COPPER FREE CAST ALUMINUM WEATHERPROOF COVER.	a, f, g, h
	DUPLEX RECEPTACLE FED FROM GFI BREAKER WITH WALL OUTLET BOX FOR ELECTRIC WATER COOLER. COORDINATE CONCEALMENT WITH EWC INSTALLER FOR MOUNTING REQUIREMENTS.	f
	DUPLEX RECEPTACLE WITH FLUSH CEILING OUTLET BOX.	f
	GFI DUPLEX RECEPTACLE WITH FLUSH CEILING OUTLET BOX.	f
	SPECIAL PURPOSE RECEPTACLE, AS NOTED ON PLANS, WITH FLUSH WALL OUTLET BOX.	a, f
	FLUSH WALL OUTLET BOX AND 30A, 125/250V, 3P, 4W, NEMA 14-30R RECEPTACLE.	a, f
	FLUSH WALL OUTLET BOX AND 50A, 125/250V, 3P, 4W, NEMA 14-50R RECEPTACLE.	a, f
	FLUSH FLOOR OUTLET BOX AND (1) 20 AMP DUPLEX RECEPTACLE WITH CARPET OR TILE FLANGE.	f, h, i
	SURFACE MOUNTED JUNCTION BOX AND BLANK PLATE, WALL MTD. OR MTD. TO CEILING/STRUCTURE AS INDICATED.	f, h, i
	SURFACE MOUNTED WEATHERPROOF JUNCTION BOX AND BLANK PLATE, WALL MTD. OR MTD. TO CEILING/STRUCTURE AS INDICATED.	f, h, i
	JUNCTION BOX AND BLANK PLATE, ABOVE CEILING.	f
	FLUSH CEILING JUNCTION BOX AND BLANK PLATE.	f
	FLUSH WALL JUNCTION BOX AND BLANK PLATE.	f
	DIE-CAST ALUMINUM, SURFACE MOUNTED OUTLET BOX AND BLANK PLATE, AS NOTED ON PLANS.	f, g, h, i
	DIE-CAST ALUMINUM, SURFACE MOUNTED OUTLET BOX AND WEATHERPROOF BLANK PLATE, AS NOTED ON PLANS.	f, g, h, i
	MOTOR, AS NOTED.	j
	DISCONNECT SWITCH. REFER TO EQUIPMENT FEEDER SCHEDULE FOR REQUIREMENTS (I.E. SIZE, FUSED, NON-FUSED, ETC.)	h, j
	MAGNETIC MOTOR STARTER OR CONTACTOR, AS NOTED.	h, j
	CONTROL AND/OR POWER EQUIPMENT CONNECTION.	j
	RELAY, COIL VOLTAGE = 24VAC OR 120VAC, TYPE AS INDICATED ON DRAWINGS. (NO) = NORMALLY OPEN, (NC) = NORMALLY CLOSED	
	120/240V BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED	j
	120/240V BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED	h, j
	TRANSFORMER, PAD MOUNTED	j
	SURGE PROTECTIVE DEVICE	
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. MINIMUM TWO CONDUCTORS PLUS GROUND. REFER TO SPECIFICATIONS AND EQUIPMENT FEEDER SCHEDULE FOR CONDUCTOR REQUIREMENTS. ARROWS INDICATE CIRCUIT CONNECTIONS AND HOMERUNS TO PANEL AS INDICATED ON PLANS. TYPICAL FOR ALL RACEWAY TYPES, U.O.N.	
	BRANCH CIRCUIT CONDUIT CONCEALED BELOW SLAB OR UNDERGROUND	
	BRANCH CIRCUIT CONDUIT EXPOSED	
	LOW VOLTAGE CONTROL WIRING, CONCEALED	
	CONDUIT CONTINUED	
	CONDUIT CAPPED OFF	
	CONDUIT RUN UP	
	CONDUIT RUN DOWN	
	GROUND OR GROUND ROD AS NOTED	
	WALL MOUNTED PHOTOELECTRIC NON-SYSTEM SMOKE DETECTOR, 120 VAC POWERED WITH BATTERY BACK-UP AND INTERLOCK CAPABILITIES (RESIDENTIAL UNITS).	o
	WALL MOUNTED PHOTOELECTRIC NON-SYSTEM SMOKE/CARBON MONOXIDE DETECTOR COMBINATION DEVICE, 120 VAC POWERED WITH BATTERY BACK-UP AND INTERLOCK CAPABILITIES (RESIDENTIAL UNITS).	o

BI-DIRECTIONAL AMPLIFIER SYSTEM	
	BI-DIRECTIONAL AMPLIFIER SYSTEM (BDA) WITH UL2524 IN-BUILDING 2-WAY EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS LISTING. MANUFACTURED BY GAMEWELL-FCI PART # GW-BDA800-1B.
	BDA BATTERIES AND BATTERY ENCLOSURES, MANUFACTURED BY GAMEWELL-FCI PART #BDA-BENCL-10-UL3R, BDA-BB-75-10, BDA-SBR-10-UL3R.
	BDA DONOR ANTENNA, MANUFACTURED BY GAMEWELL-FCI PART #BDA-DA-800-1
	BDA DAS ANTENNA, MANUFACTURED BY GAMEWELL-FCI PART #BDA-FA-800-1
	POWER DIVIDER, MANUFACTURED BY GAMEWELL-FCI PART #BDA-PD2-4588-1, BDA-PD3-4588-1, BDA-PD4-4588-1.
	DIRECTIONAL COUPLER, MANUFACTURED BY GAMEWELL-FCI PART #BDA-DC6-3588-1, BDA-DC10-3588-1, BDA-DC15-3588-1, BDA-DC20-3588-1.

COMMUNICATION AND DATA		
	TELECOMMUNICATIONS TERMINAL CABINET (36"W X 36"H X 8"D UNLESS OTHERWISE NOTED)	n
	TELEPHONE WALL OUTLET AND (1) CAT 6 CABLE TO "SMC" (RESIDENTIAL APPLICATIONS ONLY).	b
	TELEPHONE WALL OUTLET AND (1) CAT 6 CABLE TO "SMC" (RESIDENTIAL APPLICATIONS ONLY).	a
	TELEPHONE WALL OUTLET AND (1) CAT 6 CABLE BACK TO TTC. STUB INTO ACCESSIBLE CEILING SPACE WITH 3/4"C. (COMMERCIAL APPLICATIONS ONLY).	b
	TELEPHONE WALL OUTLET AND (1) CAT 6 CABLE BACK TO TTC. STUB INTO ACCESSIBLE CEILING SPACE WITH 3/4"C. (COMMERCIAL APPLICATIONS ONLY).	a
	COMBINATION TELEPHONE/DATA WALL OUTLET AND (2) CAT 6 CABLES BACK TO TTC. STUB INTO ACCESSIBLE CEILING SPACE WITH 3/4"C. (COMMERCIAL APPLICATIONS ONLY).	a
	COMBINATION FLUSH FLOOR OUTLET BOX WITH (1) 20 AMP DUPLEX RECEPTACLE, TEL/DATA OUTLET AND CARPET OR TILE FLANGE. PROVIDE (2) CAT 6 CABLES BACK TO TTC VIA 3/4"C. STUBBED INTO CEILING SPACE.	
	TELEVISION WALL OUTLET AND (1) RG6 COAX CABLE BACK AND (1) CAT 6 CABLE TO TVTC. STUB INTO ACCESSIBLE CEILING SPACE WITH 3/4"C. (COMMERCIAL APPLICATIONS ONLY).	a
	TELEPHONE SYSTEM RACEWAY, 3/4" MINIMUM CONCEALED, TO LOCAL TTC (UNLESS OTHERWISE NOTED).	
	COMBINATION TELEVISION/DATA WALL OUTLET WITH (1) RG6 COAXIAL CABLE AND (1) CAT 6 CABLE BACK TO "SMC" (RESIDENTIAL APPLICATIONS ONLY).	a
	TELEVISION RACEWAY, CONCEALED, TO LOCAL TVTC UNLESS NOTED OTHERWISE.	
	TELEVISION TERMINAL CABINET. (36"W X 36"H X 8"D UNLESS OTHERWISE NOTED)	n
	SYSTEMS STRUCTURED MEDIA CENTER J-BOX.	n
	DOOR BELL/CHIME WITH LOW VOLTAGE TRANSFORMER.	
	DOOR BELL OR GARAGE DOOR OPENER PUSH BUTTON.	b

FIRE ALARM		
	MANUAL FIRE ALARM PULL STATION.	b
	MANUAL FIRE ALARM PULL STATION, CAST SURFACE OUTLET BOX AND WEATHERPROOF ENCLOSURE.	b
	FIRE ALARM HORN/STROBE COMBINATION DEVICE.	l, m
	FIRE ALARM HORN/STROBE COMBINATION DEVICE, CAST SURFACE OUTLET BOX AND WEATHERPROOF ENCLOSURE.	l, m
	FIRE ALARM STROBE.	l, m
	FIRE ALARM HORN DEVICE WITH LOW FREQUENCY SOUNDER.	l
	FIRE ALARM HORN/STROBE DEVICE WITH LOW FREQUENCY SOUNDER.	l, m
	SMOKE DETECTOR, FA SYSTEM CONNECTION, CEILING SURFACE MOUNTED.	
	SMOKE DETECTOR, FA SYSTEM CONNECTION, WALL MOUNTED 12" BELOW CEILING.	
	WALL MOUNTED CARBON MONOXIDE DETECTOR(FA SYSTEM CONNECTION).	
	HEAT DETECTOR - THERMAL DETECTOR, CEILING SURFACE MOUNTED.	
	HEAT DETECTOR - THERMAL DETECTOR, CEILING SURFACE MOUNTED AND WEATHERPROOF ENCLOSURE.	
	TAMPER DETECTOR/SWITCH	
	FLOW DETECTOR/SWITCH	
	ADDRESSABLE OUTPUT MODULE/RELAY "AIR HANDLING"	
	ADDRESSABLE OUTPUT MODULE/RELAY "ELEVATOR SHUNT"	
	ADDRESSABLE OUTPUT MODULE/RELAY "ELEVATOR PRIMARY RECALL"	
	ADDRESSABLE OUTPUT MODULE/RELAY "ELEVATOR SECONDARY RECALL"	
	ADDRESSABLE INPUT MONITOR MODULE "ELEVATOR CONTROL POWER MONITOR"	
	ADDRESSABLE OUTPUT MODULE/RELAY "FIREFIGHTERS HAT LAMP"	
	FIRE DEPARTMENT LOCK BOX (KNOX BOX), WEATHER-PROOF. LOCATE PER AHJ.	
	FIRE ALARM CONTROL PANEL	n
	FIRE ALARM ANNUNCIATOR	n
	FIRE ALARM TERMINAL CABINET	n

#### SYMBOL LEGEND NOTES:

- THE COLOR OF ALL DEVICES SHALL BE SELECTED BY THE ARCHITECT. COVER PLATES SHALL BE PLASTIC, UNLESS OTHERWISE NOTED.
- SCREENED ELECTRICAL ITEM DENOTES EXISTING.
- "R" BY DEVICE DENOTES EXISTING TO BE REMOVED COMPLETELY.
- "H" BY DEVICE DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
- ALL DIMENSIONS INDICATED ARE TO THE BOTTOM OF FIXTURE, OUTLET, OR EQUIPMENT AND SHALL BE THE DIMENSIONS USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS, DIMENSIONS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS ARE TO THE BOTTOM OF THE FIXTURE, OUTLET, OR EQUIPMENT UNLESS INDICATED OTHERWISE. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS. VERIFY AND COORDINATE THE EXACT HEIGHT AND LOCATION OF ALL FIXTURES, OUTLETS, AND EQUIPMENT WITH ALL DOCUMENTS AND DISCIPLINES (I.E. ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, MILL/WORK, ETC.) PRIOR TO ROUGH-IN; ADJUST TO MEET ALL REQUIREMENTS.
- ALL SYMBOLS INDICATED IN THIS LEGEND MAY NOT BE USED ON THE PLANS.
- ALL WIRING DEVICES SHALL BE PROVIDED WITH A GROUNDING TERMINAL SCREW.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- U.O.N. = UNLESS OTHERWISE NOTED.
- A.H.J. = AUTHORITY HAVING JURISDICTION.
- A.F.F. = ABOVE FINISHED FLOOR
- ELECTRICAL CONTRACTOR TO PROVIDE PULL STRINGS IN ALL CONDUIT(S).

#### REMARKS:

- MOUNTED 16" ABOVE FINISHED FLOOR TO THE BOTTOM.
- MOUNTED 44" ABOVE FINISHED FLOOR TO THE BOTTOM.
- MOUNTED 50" ABOVE FINISHED FLOOR TO THE BOTTOM.
- OUTLET BOX SHALL BE SIZED PER SYSTEM INSTALLERS REQUIREMENTS.
- SUPPORT OUTLET BOX FROM STRUCTURE.
- JUNCTION/OUTLET BOX SHALL BE SIZED AS REQUIRED FOR CONDUCTOR/DE



F.A.C. 61G15-32.008 DESIGN OF FIRE ALARMS AND DETECTION SYSTEMS.

- (1) FIRE ALARMS AND DETECTION SYSTEMS INCLUDE FIRE PROTECTION SUPERVISION, EMERGENCY ALARM CIRCUITS, ACTIVATION OF LIFE SAFETY SYSTEM CONTROLS AND REMOTE SIGNALING OF EMERGENCY CONDITIONS.
- (2) THE DESIGN SPECIFICATIONS SHALL BE BASED ON THE FLORIDA BUILDING CODE, THE FLORIDA FIRE PREVENTION CODE, OR AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION. THE FLORIDA BUILDING CODE AND THE FLORIDA FIRE PREVENTION CODE ARE INCORPORATED BY REFERENCE IN RULE 61015-18.011, F.A.C.
- (3) FOR FIRE ALARM PLANS ON SMALL SYSTEMS BELOW THE THRESHOLD REQUIREMENTS FOR MANDATORY USE OF PROFESSIONAL ENGINEERING SERVICES, THE ENGINEER OF RECORD SHALL SPECIFY THE MINIMUM SYSTEM REQUIREMENTS.
- (4) TO ENSURE MINIMUM DESIGN QUALITY OF FIRE ALARM AND DETECTION SYSTEMS ENGINEERING DOCUMENTS, SAID DOCUMENTS SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION WHEN APPLICABLE:
  - (a) THE DOCUMENTS SHALL BE CLEAR, WITH A SYMBOLS LEGEND, SYSTEM RISER DIAGRAM SHOWING ALL INITIATION AND NOTIFICATION COMPONENTS, AND CABLING REQUIREMENTS. THE DOCUMENTS SHALL INDICATE LOCATIONS WHERE FIRE RATINGS ARE REQUIRED AS DETERMINED BY THE SYSTEMS SURVIVABILITY REQUIREMENTS, AND SHALL IDENTIFY THE GENERAL OCCUPANCY OF THE PROTECTED PROPERTY AND EACH ROOM AND AREA UNLESS IT IS CLEAR FROM FEATURES SHOWN.
  - (b) LOCATE INITIATION AND NOTIFICATION DEVICES AND CONNECTIONS TO RELATED SYSTEMS ON THE FLOOR PLANS AND SECTIONS WHEN NEEDED FOR CLARITY. RELATED SYSTEMS INCLUDE ELEVATOR CONTROLS, SMOKE CONTROL SYSTEMS, DAMPERS, AND DOORS.
  - (c) STROBE INTENSITY AND SPEAKER OUTPUT RATINGS FOR ALL NOTIFICATION DEVICES.
  - (d) IDENTIFY THE CLASS OF CIRCUITS AS LISTED IN NFPA 72, WHICH IS CONTAINED WITHIN AND INCORPORATED INTO THE FLORIDA FIRE PREVENTION CODE.
  - (e) IDENTIFY THE FUNCTIONS REQUIRED BY THE ALARM AND CONTROL SYSTEMS INCLUDING THE TRANSMISSION OF EMERGENCY SIGNALS BEING MONITORED OR ANNOUNCED.
  - (f) INDICATE WHETHER THE FIRE ALARM IS CONVENTIONAL, OR ADDRESSABLE, AND INDICATE ALL ZONING.
  - (g) LOCATE SURGE PROTECTIVE DEVICES AND REQUIRED PROTECTIVE FEATURES.
  - (h) LOCATE SYSTEM DEVICES THAT ARE SUBJECT TO ENVIRONMENTAL FACTORS, AND INDICATE REQUIREMENTS FOR THE PROTECTION OF EQUIPMENT FROM TEMPERATURE, HUMIDITY OR CORROSIVE ATMOSPHERES, INCLUDING COASTAL SALT AIR.
  - (i) THE DOCUMENTS SHALL INCLUDE A SITE PLAN OF THE IMMEDIATE AREA AROUND THE PROTECTED BUILDING, STRUCTURE OR EQUIPMENT WHEN ALARM DEVICES ARE REQUIRED OUTSIDE THE STRUCTURE.
  - (j) IN BUILDINGS WHERE SMOKE DETECTION WILL BE OBSTRUCTED BY WALLS, BEAMS OR CEILING FEATURES, THE ENGINEER OF RECORD SHALL PROVIDE APPLICABLE DESIGN AND DETAILS TO DIRECT THE INSTALLER TO MITIGATE THE OBSTRUCTIONS. IN BUILDINGS WITH SMOKE DETECTION UNDER A PITCHED ROOF, THE PLANS SHALL INDICATE THE ROOF PITCH AND A BUILDING SECTION SHALL BE PROVIDED AS PART OF THE ENGINEERING DESIGN DOCUMENTS.
- (5) FOR FIRE DETECTION SYSTEMS UTILIZING SMOKE DETECTION IN SITUATIONS WHERE SMOKE STRATIFICATION IS ANTICIPATED, THE DESIGN SHALL PROVIDE THE NECESSARY CRITERIA TO MITIGATE THE DETECTION PROBLEMS.
- (6) SYSTEMS DESIGNED USING PERFORMANCE BASED CRITERIA SHALL BE IDENTIFIED AND REFERENCED TO DESIGN GUIDES OR STANDARDS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION CONSISTENT WITH STANDARDS ADOPTED BY THE FLORIDA FIRE PREVENTION CODE AND THE FLORIDA BUILDING CODE.
- (7) THE SYSTEM DESIGN MUST INDICATE IF THE SYSTEM IS TO PROVIDE A GENERAL EVACUATION SIGNAL OR A ZONED EVACUATION FOR ALL HIGH-RISE BUILDINGS OR MULTI-TENANTED PROPERTIES AS DEFINED IN SECTION 2 OF THE FLORIDA BUILDING CODE, BUILDING.
- (8) WIRING REQUIREMENTS FOR UNDERGROUND, WET LOCATIONS, CAMPUS STYLE WIRING, PROTECTION AGAINST DAMAGE AND BURIAL, DEPTH SHALL BE SPECIFIED OR INDICATED ON THE ENGINEERING DESIGN DOCUMENTS.
- (9) REQUIREMENTS FOR OPERATIONS AND MAINTENANCE PROCEDURES, MANUALS, SYSTEM DOCUMENTATION, AND INSTRUCTION OF OWNER'S OPERATING PERSONNEL, AS NEEDED TO OPERATE THE SYSTEMS AS INTENDED OVER TIME.
- (10) IN THE EVENT THAT THE ENGINEER OF RECORD ELECTS TO SPECIFY SPECIFIC EQUIPMENT AND TO SHOW THE REQUIRED WIRING, BATTERY AND VOLTAGE DROP (CIRCUIT ANALYSIS) CALCULATIONS SHALL BE COMPLETED. THE CALCULATIONS SHALL BE COMPLETED USING THE EQUIPMENT MANUFACTURER'S DATA AND APPLICABLE NFPA 72 PROCEDURES.
- (11) SYSTEM TEST REQUIREMENTS SHALL BE NOTED ON THE ENGINEERING DESIGN DOCUMENTS.
- (12) WHEN THE ENGINEER DETERMINES THAT SPECIAL REQUIREMENTS ARE REQUIRED BY THE OWNER, INSURANCE UNDERWRITER OR LOCAL FIRE CODE AMENDMENTS THESE REQUIREMENTS SHALL BE DOCUMENTED OR REFERENCED ON THE ENGINEERING DESIGN DOCUMENTS.

- (a) THE DOCUMENTS SHALL BE CLEAR, WITH A SYMBOLS LEGEND, SYSTEM RISER DIAGRAM SHOWING ALL INITIATION AND NOTIFICATION COMPONENTS, AND CABLING REQUIREMENTS. THE DOCUMENTS SHALL INDICATE LOCATIONS WHERE FIRE RATINGS ARE REQUIRED AS DETERMINED BY THE SYSTEM'S SURVIVABILITY REQUIREMENTS AND SHALL IDENTIFY THE GENERAL OCCUPANCY OF THE PROTECTED PROPERTY AND EACH ROOM AND AREA UNLESS IT IS CLEAR FROM FEATURES SHOWN.
- Symbol legend is located on drawing E01.*
- FA riser diagram is located on drawing ES04.*
- Cabling requirements are addressed on Fire Alarm Riser Diagram General Note #13.*
- Survivability requirements are addressed on Fire Alarm Riser Diagram General Note #12.*
- Room identifications are shown on floor plans.*

- (b) LOCATE INITIATION AND NOTIFICATION DEVICES AND CONNECTIONS TO RELATED SYSTEMS ON THE FLOOR PLANS AND SECTIONS WHEN NEEDED FOR CLARITY. RELATED SYSTEMS INCLUDE ELEVATOR CONTROLS SMOKE CONTROL SYSTEMS, DAMPERS, AND DOORS. Fire alarm devices are indicated on floor plans with symbols and elevator notes.
- (c) STROBE INTENSITY AND SPEAKER OUTPUT RATINGS FOR ALL NOTIFICATION DEVICES.
- Per symbol legend remark 'm' on drawing E.01 (referencing fire alarm symbol legend) all strobe intensities are to be 75cd (or as noted on drawings)
- Audible notification is via horn type devices with a fixed output as listed by manufacture complying with UL and NFPA 72.

- (d) IDENTIFY THE CLASS OF CIRCUITS AS LISTED IN NFPA 72, WHICH IS CONTAINED WITHIN AND INCORPORATED INTO THE FLORIDA FIRE PREVENTION CODE.  
Circuit Class identification is addressed on Fire Alarm Riser Diagram General Note #14 on drawing E5.04.

- (e) IDENTIFY THE FUNCTIONS REQUIRED BY THE ALARM AND CONTROL SYSTEMS INCLUDING THE TRANSMISSION OF EMERGENCY SIGNALS BEING MONITORED OR ANNUNCIATED.  
*Fire alarm functions are addressed on input-output matrix on drawing E6.02.*

- (f) INDICATE WHETHER THE FIRE ARM IS CONVENTIONAL OR ADDRESSABLE AND INDICATE ALL ZONING.  
Fire alarm is a non-coded addressable type system as indicated on Fire Alarm Riser Diagram General Note #16 on drawing E5.04, as well as Specification 287220 - Section 2.2(K).

- (g) LOCATE SURGE PROTECTIVE DEVICES AND REQUIRED PROTECTIVE FEATURES.  
Surge suppression requirements are addressed on Fire Alarm Riser Diagram General Notes #1 and #5 on drawing E5.04.

- (h) LOCATE SYSTEM DEVICES THAT ARE SUBJECT TO ENVIRONMENTAL FACTORS AND INDICATE COASTAL REQUIREMENTS FOR THE PROTECTION OF EQUIPMENT FROM TEMPERATURE, HUMIDITY OR CORROSIVE ATMOSPHERES, INCLUDING COASTAL SALT AIR.  
*Weatherproof devices are indicated on electrical floor plans and are on symbol legend located on drawing E0.01.*

- (I) THE DOCUMENTS SHALL INCLUDE A SITE PLAN OF THE IMMEDIATE AREA AROUND THE PROTECTED BUILDING, STRUCTURE OR EQUIPMENT WHEN ALARM DEVICES ARE REQUIRED OUTSIDE THE STRUCTURE.  
*Site Plan of the project immediate area is provided on drawing E1.01.*

- (j) IN BUILDINGS WHERE SMOKE DETECTION WILL BE OBSTRUCTED BY WALLS, BEAMS OR CEILING FEATURES, THE ENGINEER OF RECORD SHALL PROVIDE APPLICABLE DESIGN AND DETAILS TO DIRECT THE INSTALLER TO MITIGATE THE OBSTRUCTIONS. IN BUILDINGS WITH SMOKE DETECTION UNDER A PITCHED ROOF, THE PLANS SHALL INDICATE THE ROOF PITCH AND A BUILDING SECTION SHALL BE PROVIDED AS PART OF THE ENGINEERING DESIGN DOCUMENTS.
- All smoke detectors are located on smooth ceilings.*

- (k) FOR FIRE DETECTION SYSTEMS UTILIZING SMOKE DETECTION IN SITUATIONS WHERE SMOKE STRATIFICATION IS ANTICIPATED, THE DESIGN SHALL PROVIDE THE NECESSARY CRITERIA TO MITIGATE THE DETECTION PROBLEMS.  
*Smoke stratification is not expected to occur.*

- (I) SYSTEMS DESIGNED USING PERFORMANCE BASED CRITERIA SHALL BE IDENTIFIED AND REFERENCED TO DESIGN GUIDES OR STANDARDS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION CONSISTENT WITH STANDARDS ADOPTED BY THE FLORIDA FIRE PREVENTION CODE AND THE FLORIDA BUILDING CODE.
- Refer to fire alarm Specification 287220 - Section 1.2-SYSTEM DESCRIPTION. References to the applicable codes have been included in the fire alarm input-output matrix on drawing E6.02.*

- (M) THE SYSTEM DESIGN MUST INDICATE IF THE SYSTEM IS TO PROVIDE A GENERAL EVACUATION SIGNAL OR A ZONED EVACUATION FOR ALL HIGH-RISE BUILDINGS OR MULTI-TENANTED PROPERTIES AS DEFINED IN SECTION 2 OF THE FLORIDA BUILDING CODE, BUILDING.
- Building is not a high-rise building. Fire alarm evacuation signal is a general building wide evacuation signal. Refer to Fire Alarm Riser Diagram General Note #15 on Drawing E5.04 and fire alarm counterpoise detail on drawing E6.01.*

- (n) WIRING REQUIREMENTS FOR UNDERGROUND, WET LOCATIONS, CAMPUS STYLE WIRING, PROTECTION AGAINST DAMAGE AND BURIAL DEPTH SHALL BE SPECIFIED OR INDICATED ON THE ENGINEERING DESIGN DOCUMENTS.  
*Refer to Fire Alarm Riser Diagram General Note #3 on drawing E5.04.*

- (g) REQUIREMENTS FOR OPERATIONS AND MAINTENANCE PROCEDURES, MANUALS, SYSTEM DOCUMENTATION, AND INSTRUCTION OF OWNER'S OPERATING PERSONNEL, AS NEEDED TO OPERATE THE SYSTEMS AS INTENDED OVER TIME.
- Requirements for operations and maintenance procedures and manuals are referenced in fire alarm Specification 287220 - Section 1.4(E)-OPERATION AND MAINTENANCE DATA. This section includes requirements for maintenance and operation manuals. Requirements for system documentation is referenced in FA Specification 287220 - Section 3.5-FIELD QUALITY CONTROL. This section includes requirements for initial inspections, testing, and factory service representative documentation. Requirements for instruction of Owner's operating personnel is referenced in FA Specification Section 287220 - 3.6-DEMONSTRATION. This section includes direction for Owner's personnel operation and maintenance of FA system.

- (6) SYSTEM TEST REQUIREMENTS SHALL BE NOTED ON THE ENGINEERING DESIGN DOCUMENTS.  
*System test requirements are listed in FA Specification 287220 - Section 3.5(B).*

- (7) WHEN THE ENGINEER DETERMINES THAT SPECIAL REQUIREMENTS ARE REQUIRED BY THE OWNER, INSURANCE UNDERWRITER OR LOCAL FIRE CODE AMENDMENTS THESE REQUIREMENTS SHALL BE DOCUMENTED OR REFERENCED ON THE ENGINEERING DESIGN DOCUMENTS.
- The engineer is not aware of any special requirements by the owner, insurance underwriter , or local fire code amendments.*

## LIGHTING FIXTURE SCHEDULE - APARTMENT BUILDINGS

TYPE	LAMP DATA		FIXTURE DESCRIPTION	FIXTURE DATA			VOLTAGE	SEE NOTE
	NO.	TYPE		MANUFACTURER	CATALOG NUMBER	MOUNT		
A	NA	64W LED	52"L X 12"W LINEAR PUFF LED LUMINAIRE WITH WHITE FINISH AND WHITE ACRYLIC LENS	DIVINE LTG.	5212-WH-LED64-30-WA	SURF	120	5.9
B	5	25W TYPE G INCAND.	36" INCANDESCENT BATH VANITY LIGHT BAR WITH BRUSHED NICKEL FINISH	KICHLER LTG.	626-NI	WALL	120	1.4
B1	6	25W TYPE G INCAND.	48" INCANDESCENT BATH VANITY LIGHT BAR WITH BRUSHED NICKEL FINISH	KICHLER LTG.	626-NI	WALL	120	1.4
BM	4	25W TYPE G INCAND.	24" INCANDESCENT BATH VANITY LIGHT BAR WITH BRUSHED NICKEL FINISH	KICHLER LTG.	624-NI	WALL	120	1.4
C	NA	9W LED	4" DIAMETER FLUSH MOUNTED LED LUNNAIRE WITH WHITE FINISH	LIGHTING SCIENCE	LS-GLP4-VW27-120-WH	REC	120	9
D	NA	13W LED	6" DIAMETER FLUSH MOUNTED LED LUNNAIRE WITH WHITE FINISH	LIGHTING SCIENCE	LS-GLP6-VW27-120-WH	REC	120	9
D1	NA	13W LED	7.5" DIAMETER FLUSH MOUNTED LED LUNNAIRE WITH WHITE FINISH	UTILITECH	749834	REC	120	5.9
D2	NA	13W LED	6" DIAMETER FLUSH MOUNTED LED LUNNAIRE WITH WHITE FINISH	LIGHTING SCIENCE	LS-GLP6-W27-120-WH	REC	120	9
F1	NA	16W LED	50" PADDLE FAN, BRUSHED NICKEL FINISH WITH LIGHT KIT	ROYAL PACIFIC	1004-LED-BN	PEND	120	3.10
G	NA	28W LED	7" DIAMETER LED FLUSH MOUNTED SHOWER LIGHT, WHITE FINISH, LISTED FOR WET LOCATIONS	LITHONIA	FMML-7-830-WL	REC	120	6
H	1	60W A19	DECORATIVE 6.25" DIAMETER MINI-PENDANT INCANDESCENT LIGHT WITH BRUSHED NICKEL FINISH AND ALABASTER GLASS DIFFUSER	VALUE LTG.	102860BN	PEND	120	1.2
K	1	100W A19	PORCELAIN LAMP HOLDER WITH WIRE GUARD	N/A	CONTRACTOR'S SELECTION	TRUSS	120	1
L	NA	39W LED	32.5" X 18" OVAL CEILING MOUNTED LED DECORATIVE FIXTURE WITH BRUSHED NICKEL FINISH AND WHITE ACRYLIC DIFFUSER	PROGRESS LTG.	P7251-0930K9	CLG	120	1
M	NA	18W LED	2' LED STRIP LIGHT WITH OPAL ACRYLIC LENS	ROYAL PACIFIC	4309WH	SURF	120	1
N	NA	27W LED	2' LED ENCLOSED & GASKETED LUMINAIRE WITH FIBERGLASS HOUSING AND INJECTED-MOLDED ACRYLIC LENS	LITHONIA LTG.	DMM2-L24-3000LMA-CL-MD-120-GZ10-35K-80CRI	SURF	120	1
SLW	NA	23W LED	FULL CUT-OFF LED WALL PACK WITH DIE-CAST ALUMINUM HOUSING AND BLACK FINISH	LITHONIA LTG.	WDGE2-LED-P3-30K-80CRI-VF-MVOLT-DBLXD	WALL	120	6.7, 8
V	NA	12W LED	WALL MOUNTED LED ADDRESS SIGN LIGHT	DIVINE LTG.	ML-XX-LED12-30	WALL	120	6.7, 8
WL1	1	9W LED	DECORATIVE EXTERIOR WALL SCONCE WITH COPPER OXIDE FINISH	MAXIM LTG.	55163GFCO	WALL	120	6.7
NOTES: 1. PROVIDE LAMPS. 2. VERIFY MOUNTING HEIGHT WITH ARCHITECT. 3. PROVIDE 3 SPEED SOLID STATE CONTROL SWITCH. 4. REFER TO ARCHITECT'S ELEVATIONS IN BATHROOMS. 5. U.L. DAMP LOCATION LISTED. 6. U.L. WET LOCATION LISTED. 7. REFER TO ARCHITECT'S BUILDING ELEVATIONS FOR MOUNTING HEIGHT. 8. VERIFY COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING. 9. VERIFY FIXTURE COLOR TEMPERATURE WITH ARCHITECT PRIOR TO ORDERING. 10. COORDINATE DOWNROD LENGTH WITH ARCHITECT.								

## LIGHTING FIXTURE SCHEDULE - CLUBHOUSE & TRASH ENCLOSURE

TYPE	LAMP DATA		FIXTURE DESCRIPTION	FIXTURE DATA			VOLTAGE	SEE NOTE
	NO.	TYPE		MANUFACTURER	CATALOG NUMBER	MOUNT		
A	NA	20W LED	13" DIAMETER SURFACE MOUNTED LED DOWNLIGHT WITH DIFFUSING LENS AND WHITE FINISH (1800 LUMEN OUTPUT)	JUNO LTG.	JSF-13IN-18LM-30K-90CRI-MVOLT ZT-WH	CLG	120	7
B	NA	13W LED	7" DIAMETER SURFACE MOUNTED LED DOWNLIGHT WITH DIFFUSING LENS AND WHITE FINISH (1000 LUMEN OUTPUT)	JUNO LTG.	JSF-7IN-10LM-30K-90CRI-MVOLT ZT-WH	CLG	120	7
C	3	4W G9 LED	20" THREE LIGHT BATH/VANITY FIXTURE WITH COATED GLASS SHADES AND CHROME FINISH	EGLO LTG.	200217A/ALEA 1	WALL	120	1, 6
EM	2	FURNISHED	EMERGENCY BATTERY LUMINAIRE, U.L. LISTED	LITHONIA LTG.	ELM6-LED-W	SURF	120	4, 7
EMW	2	FURNISHED	EMERGENCY BATTERY LUMINAIRE, WET LOCATION, U.L. LISTED	EXTRONIX	CP-EMW-8-LED-SA-WL	SURF	120	4, 8
F1	NA	NA	56" CEILING FAN WITH GLOSS WHITE FINISH AND WHITE BLADE COLOR	MODERN FAN CO	IC3-GW-56-WH-NL-WC	PEND	120	2
F2	1	100W T4 E11 MIN. CAND.	52" OUTDOOR CEILING FAN WITH BRUSHED NICKEL FINISH AND INTEGRATED LIGHT	MINKA AIR	F577-BNW	PEND	120	2, 7
F3	NA	NA	54" STUDIO FAN WITH BRUSHED PEWTER FINISH	MONTE CARLO FAN CO.	3SU54BP	PEND	120	2
H	NA	22W LED	24" LED STRIP LIGHT WITH DIFFUSE LENS	LITHONIA LTG.	ZL1D-L24-2500LM-FST-120-35K	TRUSS	120	
K	NA	41W LED	48" LED STRIP LIGHT WITH DIFFUSE LENS	LITHONIA LTG.	ZL1D-L48-5000LM-FST-120-35K	CLG	120	
SLW	NA	23W LED	FULL CUT-OFF LED WALL PACK WITH DIE-CAST ALUMINUM HOUSING AND BLACK FINISH	LITHONIA LTG.	WDGE2-LED-P3-30K-80CRI-1VF-MVOLT-DBLXD	WALL	120	8, 10
WL1	NA	21W LED	25" HIGH DECORATIVE EXTERIOR WALL SCONCE WITH WHITE ACRYLIC DIFFUSER AND BLACK FINISH	BROWNLEE	7329-BL-H21-30K	WALL	120	8, 10
X	NA	LED	SELF-POWERED UNIVERSAL LED EXIT SIGN WITH RED LETTERS AND WHITE HOUSING, U.L. LISTED.	LITHONIA LTG.	LQM-S-W3-R-120-ELN	SURF	120	3, 4, 7
<b>NOTES:</b> 1. PROVIDE LAMPS. 2. VERIFY DOWNROD LENGTH WITH ARCHITECT/INTERIOR DESIGNER. 3. PROVIDE CHEVRONS AS SHOWN ON PLANS. 4. CONNECT FIXTURE TO LOCAL CIRCUIT AHEAD OF SWITCHING. 5. VERIFY COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING. 6. REFER TO ARCHITECT'S ELEVATIONS IN BATHROOMS. 7. U.L. DAMP LOCATION LISTED. 8. U.L. WET LOCATION LISTED. 9. IC RATED FOR DIRECT CONTACT WITH INSULATION. 10. REFER TO ARCHITECT'S ELEVATIONS FOR MOUNTING HEIGHT/LOCATIONS.								

## GENERAL ELECTRICAL NOTES

- 1) ALL 120V, 20A CIRCUIT HOMERUNS OVER 50FT. SHALL BE #10 CU. MINIMUM, UNLESS NOTED OTHERWISE.
- 2) ALL 120V, 20A CIRCUIT HOMERUNS OVER 150FT. SHALL BE #8 CU. MINIMUM, UNLESS NOTED OTHERWISE.
- 3) COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN MECH. ROOMS/SPACES WITH DUCTWORK INSTALLER PRIOR TO ROUGH-IN. LOCATE BELOW DUCTWORK (8'-0" AFF MINIMUM) CENTERED IN ROOM AS MUCH AS POSSIBLE.
- 4) COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED SHOP DRAWINGS AND MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 5) VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.
- 6) REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
- 7) PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUTS.
- 8) COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT, (I.E. MOTORS, HVAC, SPECIAL PURPOSE OUTLETS, OWNER FURNISHED EQUIPMENT ETC.) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE AND MANUFACTURERS RECOMMENDATIONS.
- 9) THE USE OF ANY PROCESS INVOLVING ASBESTOS OR PCB, AND THE INSTALLATION OF ANY PRODUCT, INSULATION, COMPOUND OF MATERIAL CONTAINING OR INCORPORATING ASBESTOS OR PCB, IS PROHIBITED. THE REQUIREMENTS OF THIS SPECIFICATION FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM SHALL BE MET WITHOUT THE USE OF ASBESTOS OR PCB.
- 10) THE POWER COMPANY SHALL BE CONTACTED WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT BY THE CONTRACTOR TO VERIFY THE ACTUAL AVAILABLE SHORT CIRCUIT FAULT CURRENT (SCC) AT THE TRANSFORMER SECONDARY BUSHINGS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT AND PANELBOARDS WHICH HAVE AICW/STANDSTAD RATINGS GREATER THAN THE AVAILABLE SCC AT EACH POINT IN THE ELECTRICAL SYSTEM.
- 11) VISIT THE EXISTING FACILITY AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS. SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- 12) CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND GUIDELINES APPLICABLE.
- 13) PANEL SCHEDULES INDICATE CIRCUIT DESIGNATIONS ONLY. CONTRACTOR TO PROVIDE MATERIALS AS REQUIRED WHEN NEUTRALS ARE SHARED TO COMPLY WITH NEC REQUIREMENTS. ALL SINGLE PHASE MULTIWIRE BRANCH CIRCUITS SHALL BE FED VIA A TWO POLE BREAKER OR TWO SINGLE POLE BREAKERS WITH AN IDENTIFIED HANDLE TIE.
- 14) TYPE NM AND SE/SE/CABLE IS PERMISSIBLE WHERE INSTALLED PER 2014 NEC REQUIREMENTS IN MULTI-FAMILY STRUCTURES ONLY.
- 15) ALL PENETRATIONS THROUGH FIRE RESISTANCE RATED PARTITIONS AND OTHER ASSEMBLIES, INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, CONDUITS AND OTHER PENETRATING ITEMS, SHALL BE FIRE-STOPPED TO PRESERVE THE FIRE RATING OF THE ASSEMBLY. ALL OUTLET BOXES LOCATED IN FIRE RATED WALLS/CEILINGS ARE TO BE RATED IN ORDER TO PRESERVE THE FIRE RATING OF THE ASSEMBLY. REFER TO ARCHITECTURAL PLANS FOR FIRE-STOPPING DETAILS.
- 16) AN IN-BUILDING RADIO SIGNAL AMPLIFICATION SYSTEM TO PROVIDE COMPLETE COVERAGE FOR THE PUBLIC SAFETY AGENCIES, AS REQUIRED BY THE LOCAL AHJ, MAY BE REQUIRED IN ALL BUILDINGS. REFER TO GENERAL NOTE #8 ON DRAWING E6.02 REGARDING MINIMUM REQUIREMENTS FOR BDA SYSTEM AS WELL AS REQUIREMENTS FOR ALTERNATE BIDS.

## BRANCH CIRCUIT WIRING

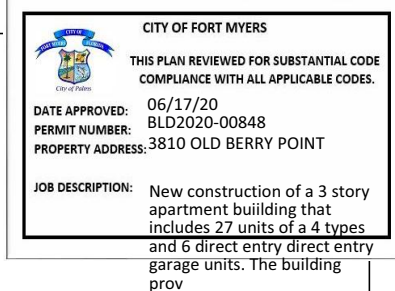
- 1) WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- 2) WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- 3) ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- 4) ALTHOUGH ALL BRANCH WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- 5) PROVIDE A GREEN GROUND CONDUCTOR IN ALL CIRCUITS. APPROPRIATELY INCREASE SIZE OF CONDUITS TO ACCOMMODATE GROUND CONDUCTOR.
- 6) UNLESS SHOWN OTHERWISE (BRANCH CIRCUITING INSTRUCTIONS):
  - A) 1600 VOLT-AMPS MAXIMUM PER 20A/1P CIRCUIT, UNLESS SHOWN OTHERWISE.
  - B) 6 CONVENIENCE OUTLETS MAXIMUM PER 20A/1P BRANCH CIRCUIT.
- 7) OUTLETS MOUNTED IN FIRE WALLS AND CEILINGS SHALL COMPLY WITH U.L. CATEGORY OF "OUTLET BOXES AND FITTINGS CLASSIFIED FOR FIRE RESISTANCE".
- 8) UTILIZE 15A RATED DEVICES IN ALL RESIDENTIAL UNITS. UTILIZE 20A RATED DEVICES IN CLUBHOUSE, MAIL KIOSK AND FOR ALL DEVICES UTILIZED IN MULTI-FAMILY BUILDINGS (NOT LOCATED IN APARTMENT UNITS).
- 9) ALL RECEPTACLES INSTALLED IN WET LOCATIONS SHALL BE PROVIDED WITH WEATHERPROOF "IN-USE" COVER.
- 10) IN ADDITION TO WEATHER PROOF (WP) COVER AND GFCI PROTECTION, 15A AND 20A, 125V AND 250V RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE LISTED "WEATHER-RESISTANT" TYPE (WR) PER NEC SECTIONS 406.9(A) AND 406.9(B)(1).

## TELEVISION CABLING

- 1) PROVIDE ALL NECESSARY CABLING, BOXES AND RELATED ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION OF TELEVISION CABLING SERVICE TO EACH UNIT. REFER TO SPECIFICATIONS.
- 2) COORDINATE WITH OWNER'S LOCAL CABLE TELEVISION COMPANY.

## TELE.-VOICE/DATA CABLING

- 1) PROVIDE ALL NECESSARY CABLING, BOXES AND RELATED ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION OF VOICE/DATA CABLING SERVICE TO EACH UNIT. REFER TO SPECIFICATIONS.
- 2) COORDINATE WITH OWNER'S LOCAL TELECOMMUNICATIONS COMPANY.



PERMIT REVIEW STAMP

## ISSUE HISTORY

No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

## REVISION HISTORY

No.	Date	Description
2	06/03/20	PERMIT COMMENT RESPONSES



FUGLEBERG KOCH  
PLLC

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595  
www.fuglebergkoch.com BR569



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## THE ROBERT

FT. MYERS, FL

LIGHT FIXT. SCHED. AND  
GEN. NOTES - ELECTRICAL

# E0.02





## GENERAL NO.

1. THIS PLAN PROVIDED

No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

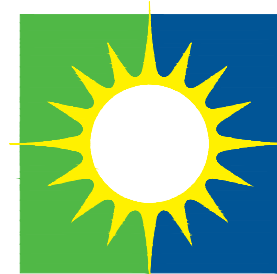
## REVISION HISTORY

No.	Date	Description
2	06/03/20	PERMIT COMMENT RESPONSES



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P.L.C.

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CONSULTANT  
**SALAS O'BRIEN**  
| expect a difference |  
3501 Quadrangle Boulevard, Suite 100  
Orlando, Florida 32817  
(407) 380-0400  
CERT. OF AUTH. NO. 6106

- GARY A. WILKERSON, P.E., 43167
- KYLE J. CARTIER, P.E., 53293
- JEFF A. KIRKMAN, P.E., 66629
- ADAM S. LEVINE, P.E., 77010

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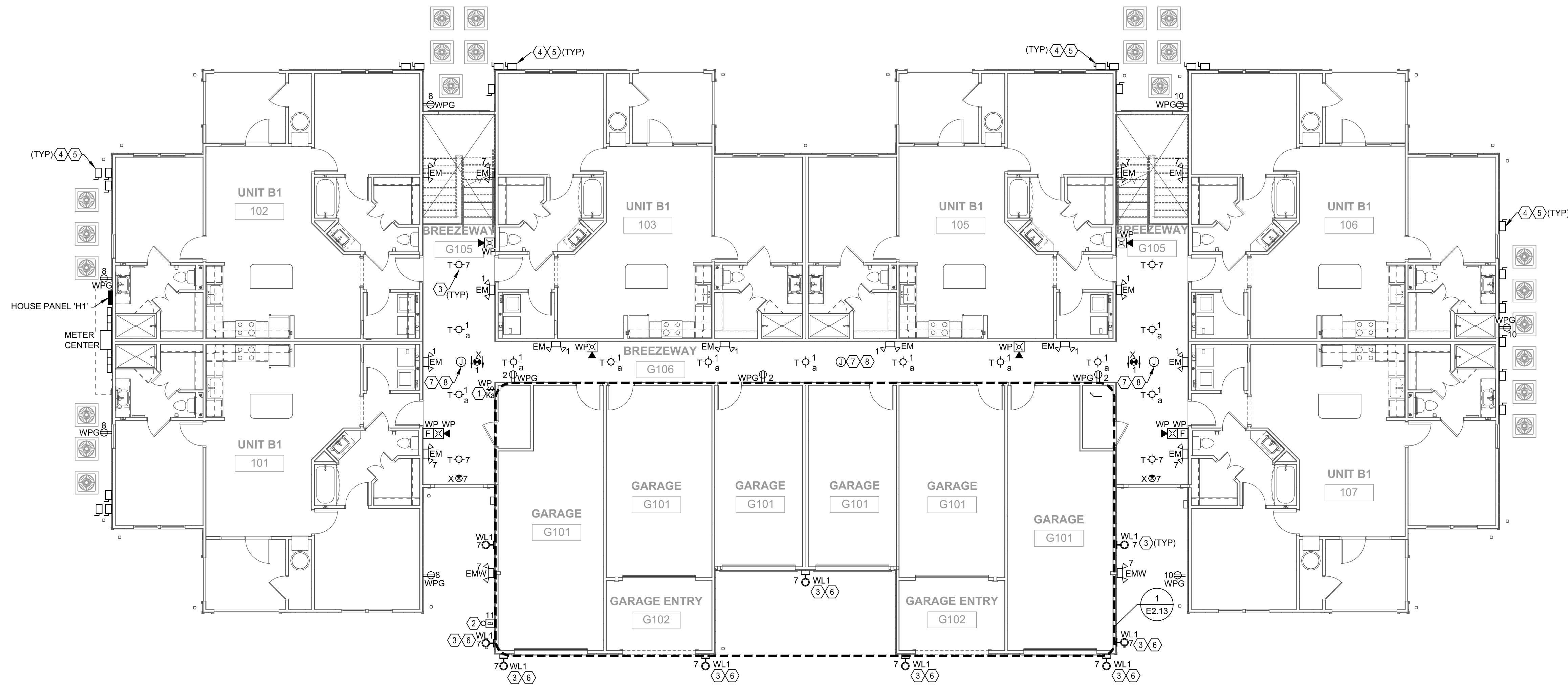
# THE ROBERT

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## SITE PLAN - ELECTRICAL

## E1.01

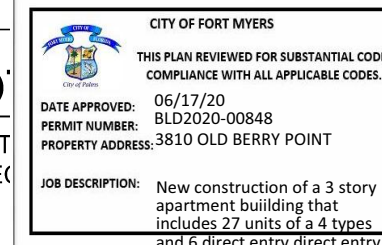




# 1 E2.01 **BUILDING TYPE 1 - GROUND LEVEL - ELECTRICAL** 1/8" = 1'-0"

## REFERENCE NOTES

- ① PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ② REFER TO FIRE PROTECTION SHEETS AND CONTRACTOR FOR EXACT LOCATION OF ELECTRICAL BELL PRIOR TO ROUGH-IN.
- ③ CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- ④ DISCONNECT SWITCH FOR CONDENSING UNIT SERVING ASSOCIATED UNIT. REFER TO MECHANICAL FLOOR PLANS FOR CONDENSING UNIT DESIGNATIONS AND ROUTE CIRCUIT TO THAT CORRESPONDING UNIT PANEL. REFER TO UNIT PANEL SCHEDULE FOR CIRCUIT NUMBER FOR EACH UNIT. DISCONNECTING MEANS SHALL BE WITHIN 10'-0" OF EQUIPMENT BEING SERVED. LOCATE DISCONNECT SWITCH IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC.
- ⑤ COORDINATE FINAL LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC 110.
- ⑥ REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- ⑦ PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA BASE THE ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- ⑧ PROVIDE 18"x18" CEILING RATED ACCESS PANEL.



## GENERAL NO

1. VERIFY EXACT LOAD EQUIPMENT WITH MET PRIOR TO ROUGH-IN.
- |   |
|---|
| PROJECT NUMBER: 18-0220-0048  |
| PERMIT NUMBER: 18-0100-0000   |
| NO. OF SHEETS: 18-0100-0000   |
| SHEET NO. 18-0100-0000  |
| DESCRIPTION: New construction of a 3 story apartment building that includes a total of 4 types, and a direct entry direct entry unit. |
2. ALL 120/208V CIRCUITS SHALL BE RATED TO THE HOUSE PANEL "H" (UNLESS NOTED OTHERWISE).
3. REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.
4. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.
5. REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.
6. FURNISH AND INSTALL COMPLETE LIGHTING PROTECTION SYSTEM PER NFPA 780 AND U.L. REFER TO SPECIFICATIONS.
7. ELECTRICAL CONTRACTOR TO COORDINATE REQUIRED SPACE ON BUILDING EXTERIOR WALL FOR INSTALLATION OF APPROVED METER CENTER/HOUSE PANEL WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.

ISSUE HISTORY		
No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

[illegible]

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CONSULTANT  
**SALAS O'BRIEN**  
| expect a difference |  
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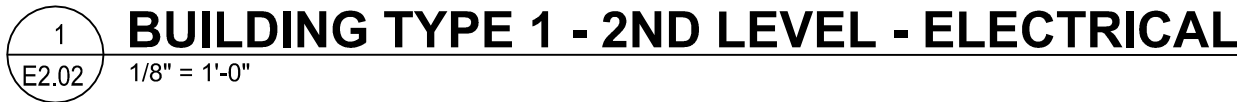
## THE ROBERT

FT. MYERS, FL

## BUILDING TYPE 1 - GROUND LEVEL - ELECTRICAL

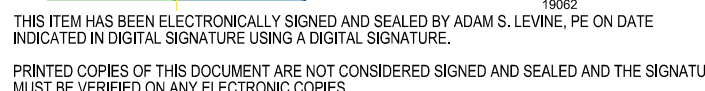
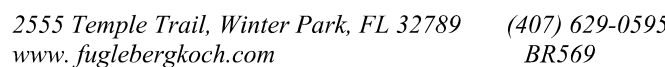
## E2.01





- ① PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ② CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- ③ REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- ④ PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DSA ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- ⑤ PROVIDE 18"x18" CEILING RATED ACCESS PANEL.

1. ALL 120/208V CIRCUIT HOUSE PANEL 'H1' (UN	PERMIT NUMBER:	6102020-00
	PROPERTY ADDRESS:	2810 OLD B
2. CONNECT ALL EXIT SI	JOB DESCRIPTION:	New const
TO LOCAL LIGHTING CIRCUIT AND OF P		apartment
SWITCHES AND CONTROLS.		includes 27
		and 6 direct
		prov
3. REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.		

[illegible]

FT. MYERS, FL

## BUILDING TYPE 1 - 2ND LEVEL - ELECTRICAL

## E2.02

[illegible]

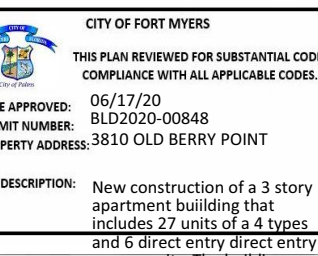




- ⑦ PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ⑧ CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTROL TACTIC IF PROVIDED).
- ⑨ LIGHT FIXTURE SWITCH AND RECEPTACLE IN ATTIC ADJACENT TO ACCESS. COORDINATE LOCATION PRIOR TO ROUGH-IN.
- ⑩ REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- ⑪ PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.

## GENERAL NO'

- |    |  |  |
|----|--|--|
| 1. | ALL 120/208V CIRCUIT HOUSE PANEL 'H1' (UN  | PERMIT NUMBER: 8020202004848<br>PROPERTY ADDRESS: 3810 OLD BERRY POIN  |
| 2. | CONNECT ALL EXIT SI<br>TO LOCAL LIGHTING CIRCUIT AND PROVIDE<br>SWITCHES AND CONTROLS. | JOB DESCRIPTION: New construction of<br>apartment building th<br>includes 27 units of a-<br>and 62 entry drive d<br>and 62 entry drive d<br>and 62 entry drive d |
| 3. | REFER TO TYPICAL UNIT PLANS FOR ALL<br>ELECTRICAL REQUIREMENTS IN UNITS.               |  |



PERMIT REVIEW STAMP

## ISSUE HISTORY

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1	11/22/19	SCHEMATIC DESIGN
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3	02/28/20	PERMIT REVIEW SET

## REVISION HISTORY

[illegible]

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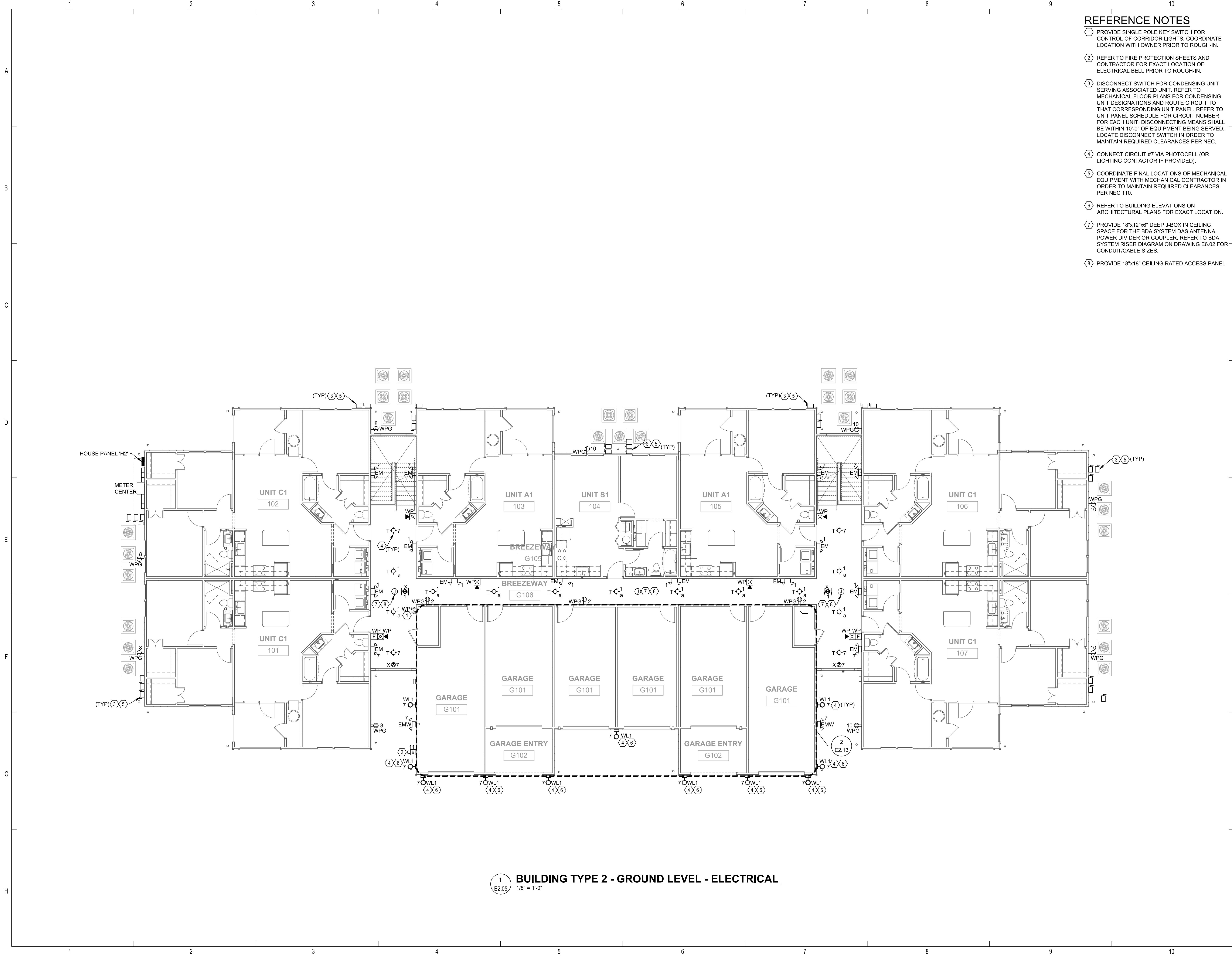
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## BUILDING TYPE 1 - 3RD LEVEL - ELECTRICAL

## E2.03

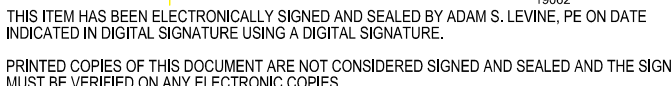




- ① PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ② REFER TO FIRE PROTECTION SHEETS AND CONTRACTOR FOR EXACT LOCATION OF ELECTRICAL BELL PRIOR TO ROUGH-IN.
- ③ DISCONNECT SWITCH FOR CONDENSING UNIT SERVING ASSOCIATED UNIT. REFER TO MECHANICAL FLOOR PLANS FOR CONDENSING UNIT DESIGNATIONS AND ROUTE CIRCUIT TO THAT CORRESPONDING UNIT PANEL. REFER TO UNIT PANEL SCHEDULE FOR CIRCUIT NUMBER FOR EACH UNIT. DISCONNECTING MEANS SHALL BE WITHIN 10'-0" OF EQUIPMENT BEING SERVED. LOCATE DISCONNECT SWITCH IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC.
- ④ CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- ⑤ COORDINATE FINAL LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC 110.
- ⑥ REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- ⑦ PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DASH ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM WIRING DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- ⑧ PROVIDE 18"x18" CEILING RATED ACCESS PANEL.

1. VERIFY EXACT LOCATION OF EQUIPMENT WITH MECHANICAL PRIOR TO ROUGH-IN.
2. ALL 120/208V CIRCUITS SHALL BE RATED TO THE MAIN HOUSE PANEL 'H2' (UNLESS NOTED OTHERWISE).
3. REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.
4. CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.
5. REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.
6. FURNISH AND INSTALL COMPLETE LIGHTNING PROTECTION SYSTEM PER NFPA 780 AND U.L. REFER TO SPECIFICATIONS.
7. ELECTRICAL CONTRACTOR TO COORDINATE REQUIRED SPACE ON BUILDING EXTERIOR WALL FOR INSTALLATION OF APPROVED RATED MAIN CENTER/HOUSE PANEL WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION.

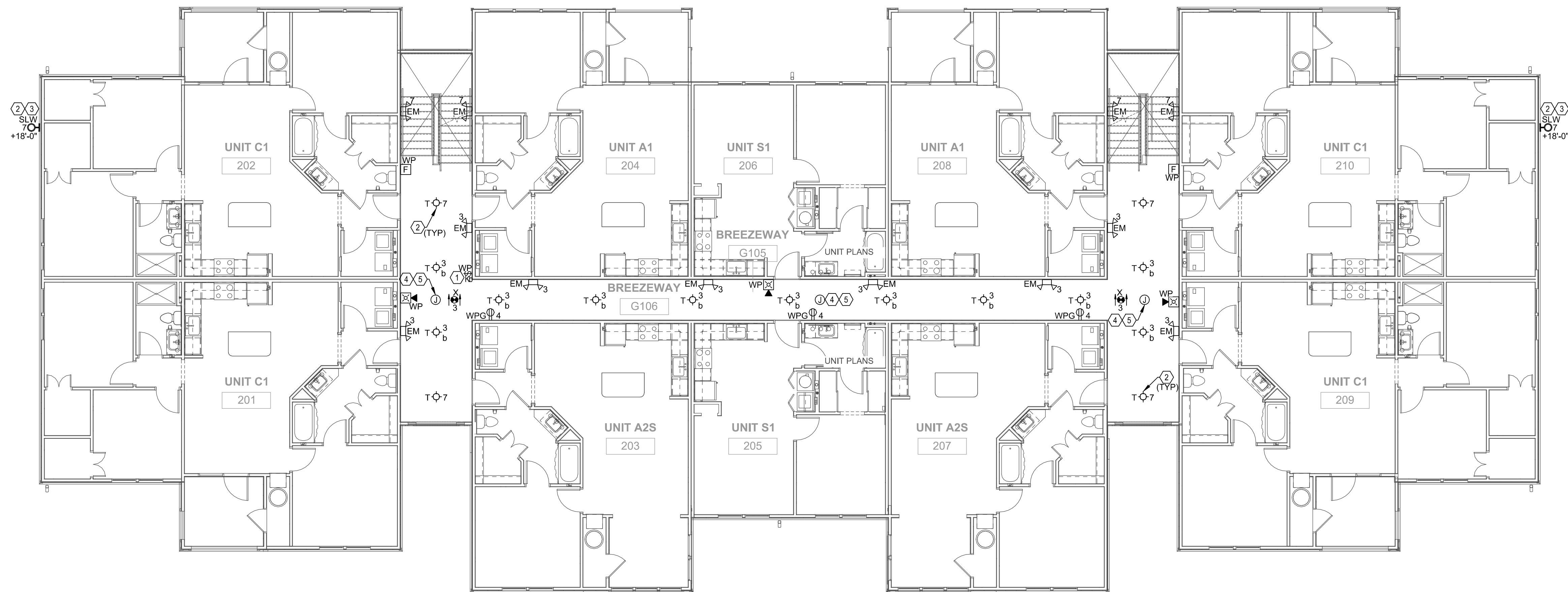
No.	Date	Description
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3	02/28/20	PERMIT REVIEW SET

[illegible]

## BUILDING TYPE 2 - GROUND LEVEL - ELECTRICAL

## E2.05



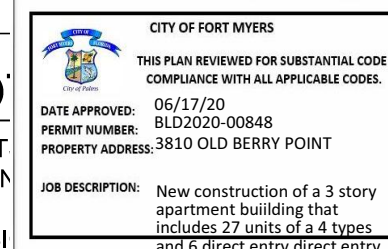


## 1 BUILDING TYPE 2 - 2ND LEVEL - ELECTRICAL

E2.06 1/8" = 1'-0"

## REFERENCE NOTES

- ① PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ② CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- ③ REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- ④ PROVIDE 18"x12" DBE DEEP D-BOX IN CEILING SPACE FOR THE BDA SYSTEM BASE ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- ⑤ PROVIDE 18"x18" CEILING RATED ACCESS PANEL.



## GENERAL NO

- |   |   |
|---|---|
| 1. ALL 120/208V CIRCUIT HOUSE PANEL 'H2' (UN<br>2. CONNECT ALL EXIT SI<br>TO LOCAL LIGHTING CIRCUIT AHEAD OF<br>SWITCHES AND CONTROLS.<br>3. REFER TO TYPICAL UNIT PLANS FOR ALL<br>ELECTRICAL REQUIREMENTS IN UNITS. | PERMIT NUMBER: 61020200-00<br>PROPERTY ADDRESS: 3810 OLD B  |
|   | JOB DESCRIPTION: New construction apartment building includes 27 units and direct and indirect provisions |

PERMIT REVIEW STAFF

## ISSUE HISTORY

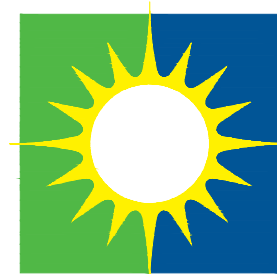
No.	Date	Description
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## REVISION HISTORY

[illegible]

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**SALAS O'BRIEN**  
[ expect a difference ]

3591 Quadrangle Boulevard, Suite 100  
Orlando, Florida 32817  
(407) 580-0480

CERT. OF AUTH. NO. 6106

- GARY A. WILKERSON, P.E. 43167
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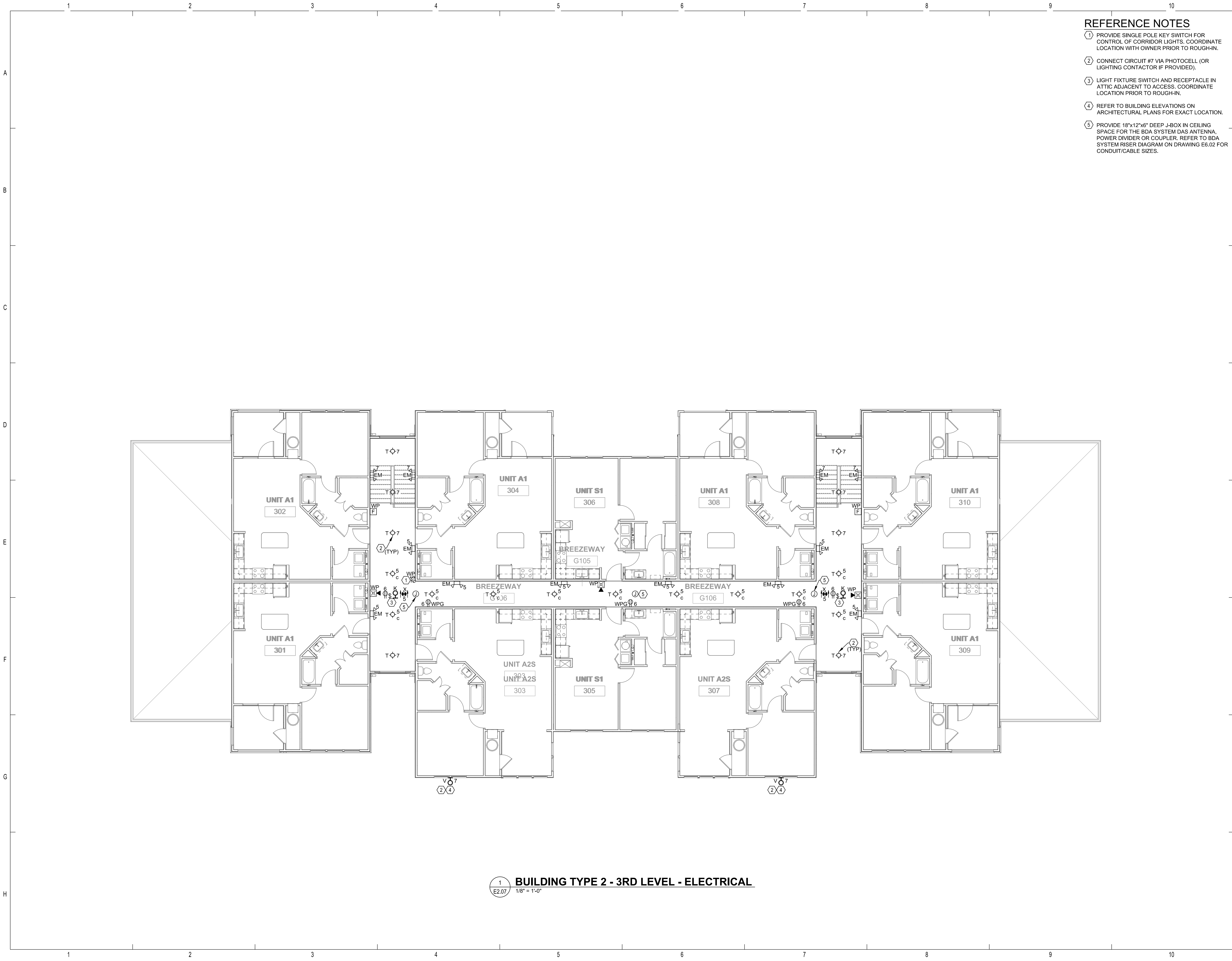
FT. MYERS, FL

## BUILDING TYPE 2 - 2ND LEVEL - ELECTRICAL

## E2.06

PLOTTED: 8/4/2020  
11:36:03 AM





1  
E2.07

**BUILDING TYPE 2 - 3RD LEVEL - ELECTRICAL**

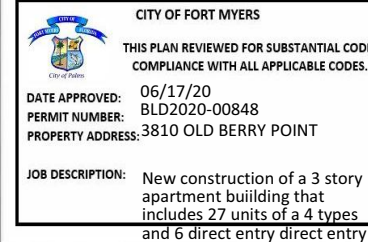
1/8" = 1'-0"

**REFERENCE NOTES**

1. PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
2. CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
3. LIGHT FIXTURE SWITCH AND RECEPTACLE IN ATTIC ADJACENT TO ACCESS. COORDINATE LOCATION PRIOR TO ROUGH-IN.
4. REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
5. PROVIDE 18"x12"x8" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.

**GENERAL NOTES**

1. ALL 120/208V CIRCUIT HOUSE PANEL 'H2' (UN
2. CONNECT ALL EXIT SI TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.
3. REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.



PERMIT REVIEW STAMP

**ISSUE HISTORY**

No.	Date	Description
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**REVISION HISTORY**

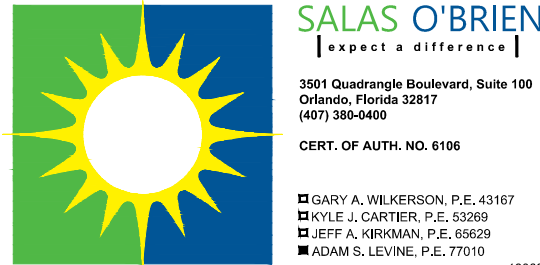
No.	Date	Description



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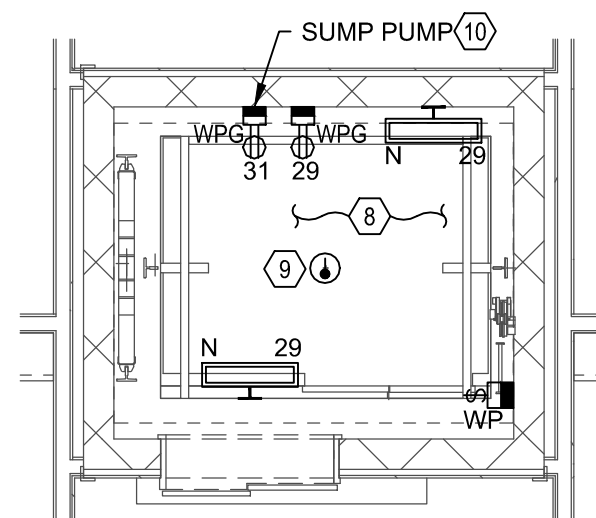
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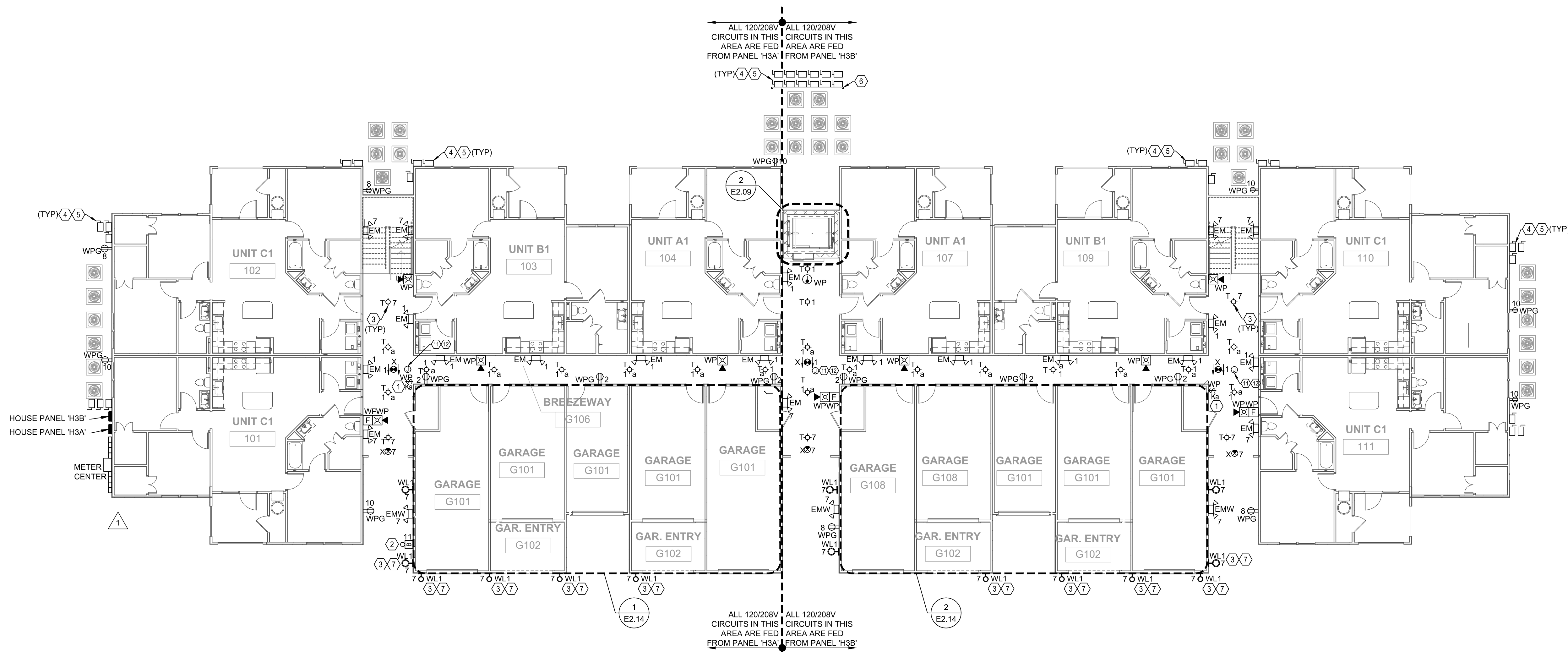
**BUILDING TYPE 2 - 3RD  
LEVEL - ELECTRICAL**

**E2.07**





**ENLARGED PLAN - ELEVATOR PIT**



# 1 E2.09 **BUILDING TYPE 3 - GROUND LEVEL - ELECTRICAL** 3/32" = 1'-0"

## REFERENCE NOTES

- ① PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ② REFER TO FIRE PROTECTION SHEETS AND CONTRACTOR FOR EXACT LOCATION OF ELECTRICAL BELL PRIOR TO ROUGH-IN.
- ③ CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- ④ DISCONNECT SWITCH FOR CONDENSING UNIT SERVING ASSOCIATED UNIT. REFER TO MECHANICAL FLOOR PLANS FOR CONDENSING UNIT ORIGINATOR AND ROUTE CIRCUIT TO THAT CORRESPONDING UNIT PANEL. REFER TO UNIT PANEL SCHEDULE FOR CIRCUIT NUMBER FOR EACH UNIT. DISCONNECTING MEANS SHALL BE WITHIN 10'-0" OF EQUIPMENT BEING SERVED. LOCATE DISCONNECT SWITCH IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC.
- ⑤ COORDINATE FINAL LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR IN ORDER TO MAINTAIN REQUIRED CLEARANCES PER NEC 110.
- ⑥ MOUNT DISCONNECTS 12" A.F.G. TO BOTTOM ON 1-1/2"x1-1/2" NON-METALLIC CHANNEL.
- ⑦ REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATIONS.
- ⑧ COORDINATE EXACT LOCATION OF ALL ELECTRICAL IN ELEVATOR PIT WITH ELEVATOR INSTALLER AND INSTALL AS REQUIRED.
- ⑨ MOUNT HEAT DETECTOR WITHIN 24" OF FIRE PROTECTION SPRINKLER HEAD. FIELD COORDINATE PRIOR TO ROUGH-IN. REFER TO ELEVATOR SHUT DOWN WIRING DETAIL ON DRAWING E6.01.
- ⑩ PROVIDE WPG DUPLEX OUTLET FOR PUMP CONTROL PANEL AND ASSOCIATED ALARM. COORDINATE LOCATION IN PIT WITH PLUMBING CONTRACTOR.
- ⑪ PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- ⑫ PROVIDE 18"x18" CEILING RATED ACCESS PANEL.

## GENERAL NO

- |    |  |   |
|----|--|---|
| 1. | VERIFY EXACT LOCAT<br>EQUIPMENT WITH MAP<br>PRIOR TO ROUGH-IN.   | PERMIT NUMBER: 8102200-00849<br>PROPERTY ADDRESS: 3510 OLD BERRY POINT  |
| 2. | ALL 120/208V CIRCUITS SHALL BE <del>W/IN THE UNITS</del><br>RESPECTIVE HOUSE PANEL AS NOTED ON PLANS<br>(UNLESS NOTED OTHERWISE).  | JOB DESCRIPTION: New construction of a 3 story<br>apartment building, that<br>includes 27 units of 4 types<br>and 2 direct entry direct entry |
| 3. | REFER TO EQUIPMENT FEEDER SCHEDULE ON<br>SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT<br>CONNECTION REQUIREMENTS.  |   |
| 4. | CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS<br>TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL<br>SWITCHES AND CONTROLS.  |   |
| 5. | REFER TO TYPICAL UNIT PLANS FOR ALL<br>ELECTRICAL REQUIREMENTS IN UNITS.   |   |
| 6. | FURNISH AND INSTALL COMPLETE LIGHTNING<br>PROTECTION SYSTEM PER NFPA 780 AND U.L.<br>REFER TO SPECIFICATIONS.  |   |
| 7. | ELECTRICAL CONTRACTOR TO COORDINATE<br>REQUIRED SPACE ON BUILDING EXTERIOR WALL<br>FOR INSTALLATION OF APPROVED METER<br>CENTER/HOUSE PANEL(S) WITH GENERAL<br>CONTRACTOR PRIOR TO CONSTRUCTION. |   |

## ISSUE HISTORY

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1	11/22/19	SCHEMATIC DESIGN
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3	02/28/20	PERMIT REVIEW SET

## REVISION HISTORY

[illegible]FUGLEBERG KOCH  
PLC

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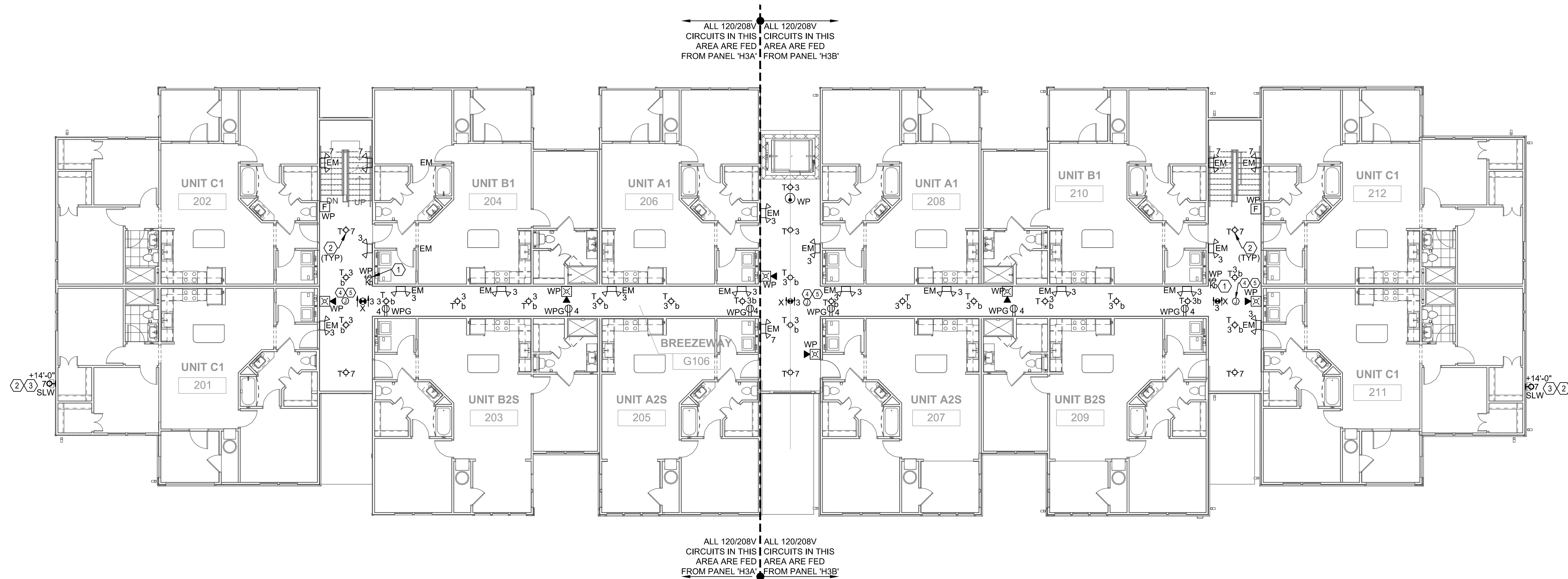
## THE ROBERT

FT. MYERS, FL

### BUILDING TYPE 3 - GROUND LEVEL - ELECTRICAL

## E2.09





## REFERENCE NOTES

- ① PROVIDE SINGLE POLE KEY SWITCH FOR CONTROL OF CORRIDOR LIGHTS. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ② CONNECT CIRCUIT #7 VIA PHOTOCELL (OR LIGHTING CONTACTOR IF PROVIDED).
- ③ REFER TO BUILDING ELEVATIONS ON ARCHITECTURAL PLANS FOR EXACT LOCATION.
- ④ PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM BSA ANTENNA, POWER DIVIDER OR COUPLER. REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- ⑤ PROVIDE 18"x18" CEILING RATED ACCESS PANEL.

## GENERAL NO

- |    |   |   |
|----|---|---|
| 1. | VERIFY EXACT LOCATION OF EQUIPMENT WITH MECHANICAL PRIOR TO ROUGH-IN.   | PERMIT NUMBER: 81D2020-00848<br>PROPERTY ADDRESS: 3810 OLD HEBERY POINT<br>JOB DESCRIPTION: New construction of a 3 story apartment building that includes 27 units of a 3 y unit & direct entry direct |
| 2. | ALL 120/208V CIRCUITS SHALL BE SUPPLIED TO THE RESPECTIVE HOUSE PANEL AS NOTED ON PLANS (UNLESS NOTED OTHERWISE). |   |
| 3. | REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.           |   |
| 4. | CONNECT ALL EXIT SIGNS AND BATTERY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHES AND CONTROLS.           |   |
| 5. | REFER TO TYPICAL UNIT PLANS FOR ALL ELECTRICAL REQUIREMENTS IN UNITS.   |   |

## ISSUE HISTORY

No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

## REVISION HISTORY

[illegible]

FUGLEBERG KOCH  
PLLC

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0592  
www.fuglebergkoch.com BR569



**SALAS O'BRIEN**  
[ expect a difference ]

3501 Quadrangle Boulevard, Suite 100  
Orlando, Florida 32817  
(407) 380-0400

CERT. OF AUTH. NO. 6106

■ GARY A. WILKERSON, P.E., 43167  
■ KYLE J. CARTER, P.E., 53209  
■ JEFF A. KIRKMAN, P.E., 69629  
■ ADAM S. LEVINE, P.E., 77010

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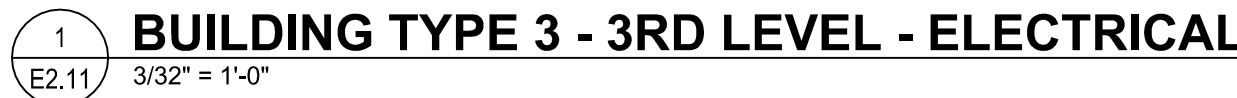
# THE ROBERT

FT. MYERS, FL

## BUILDING TYPE 3 - 2ND LEVEL - ELECTRICAL

## E2.10





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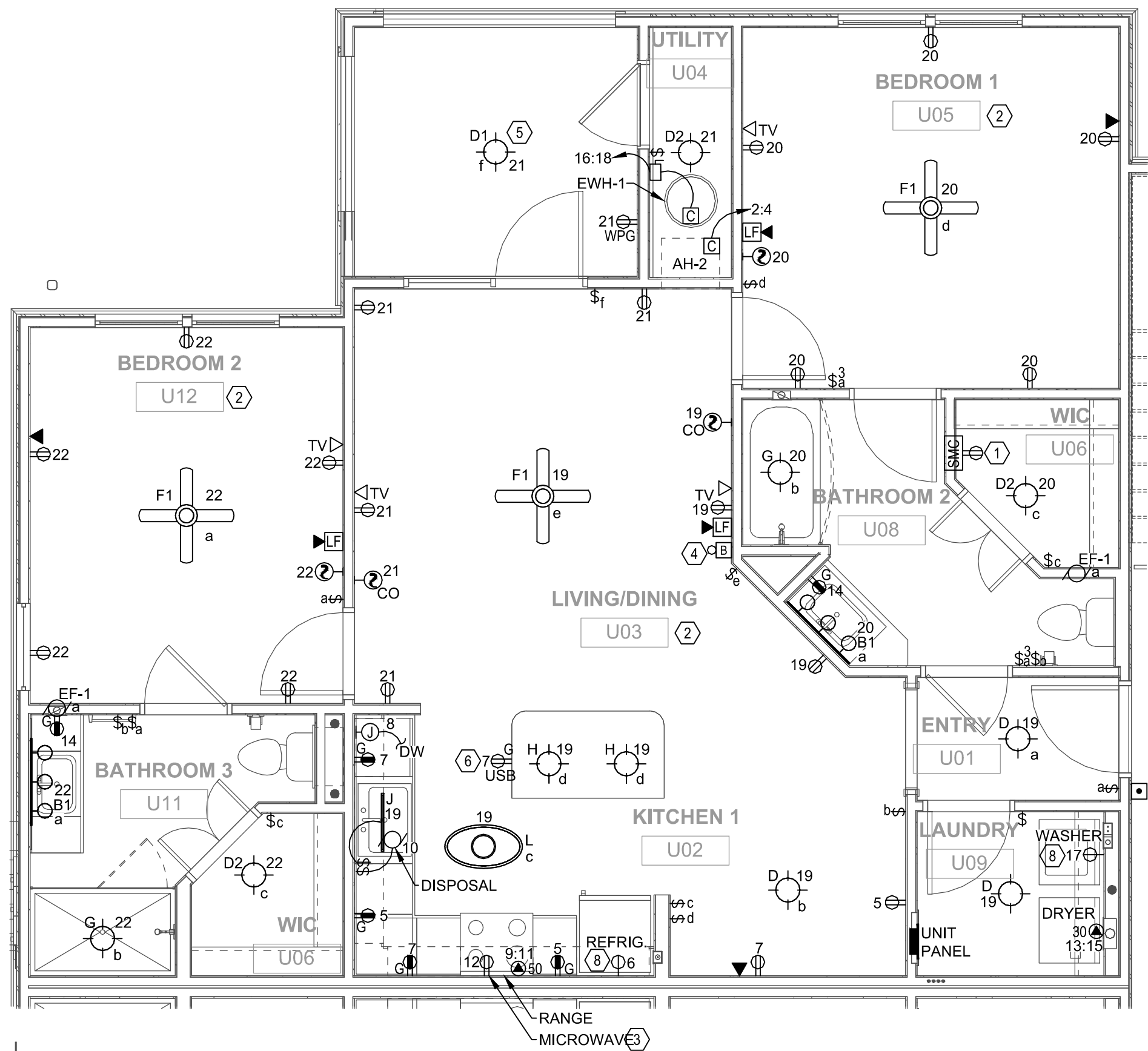




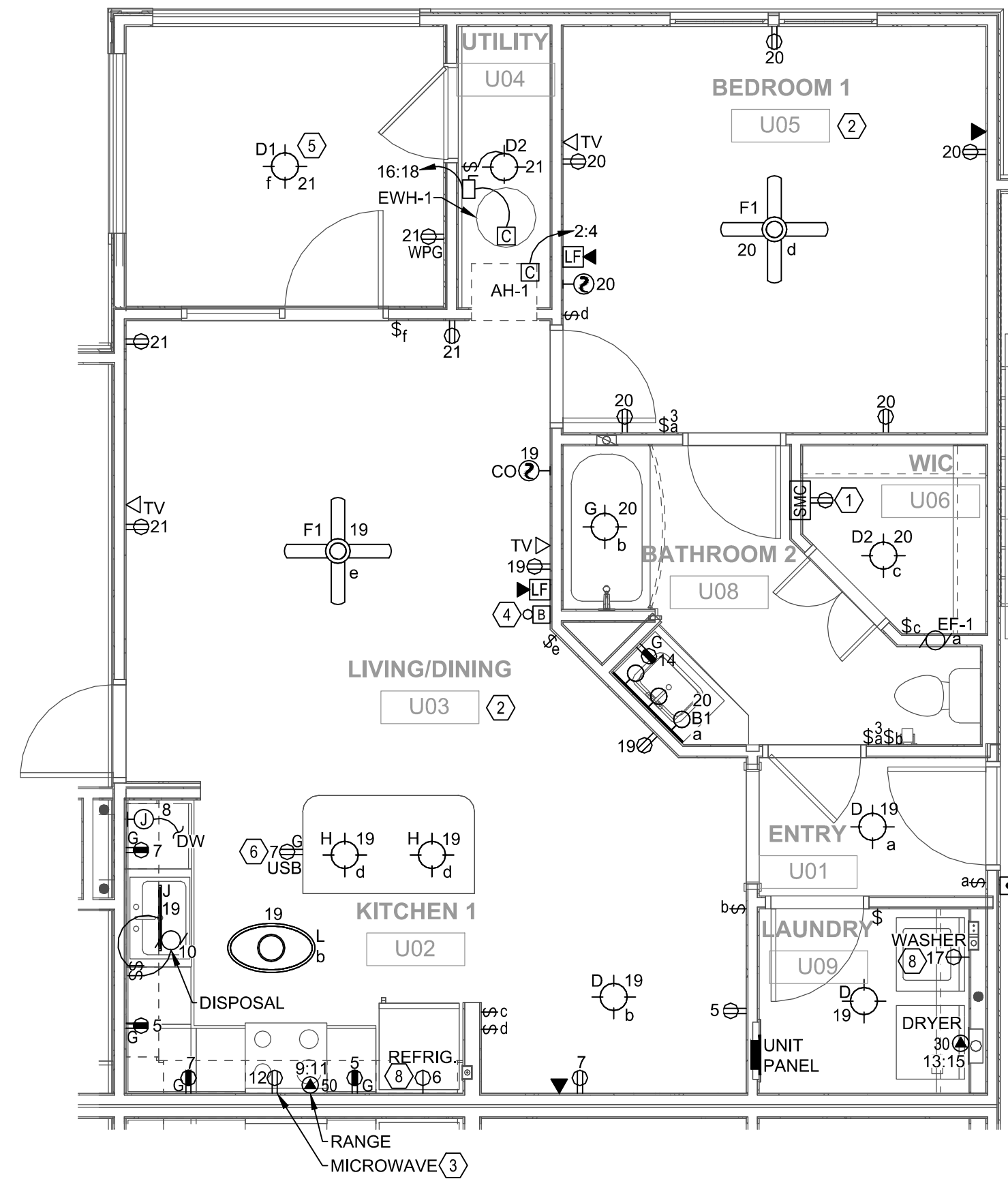




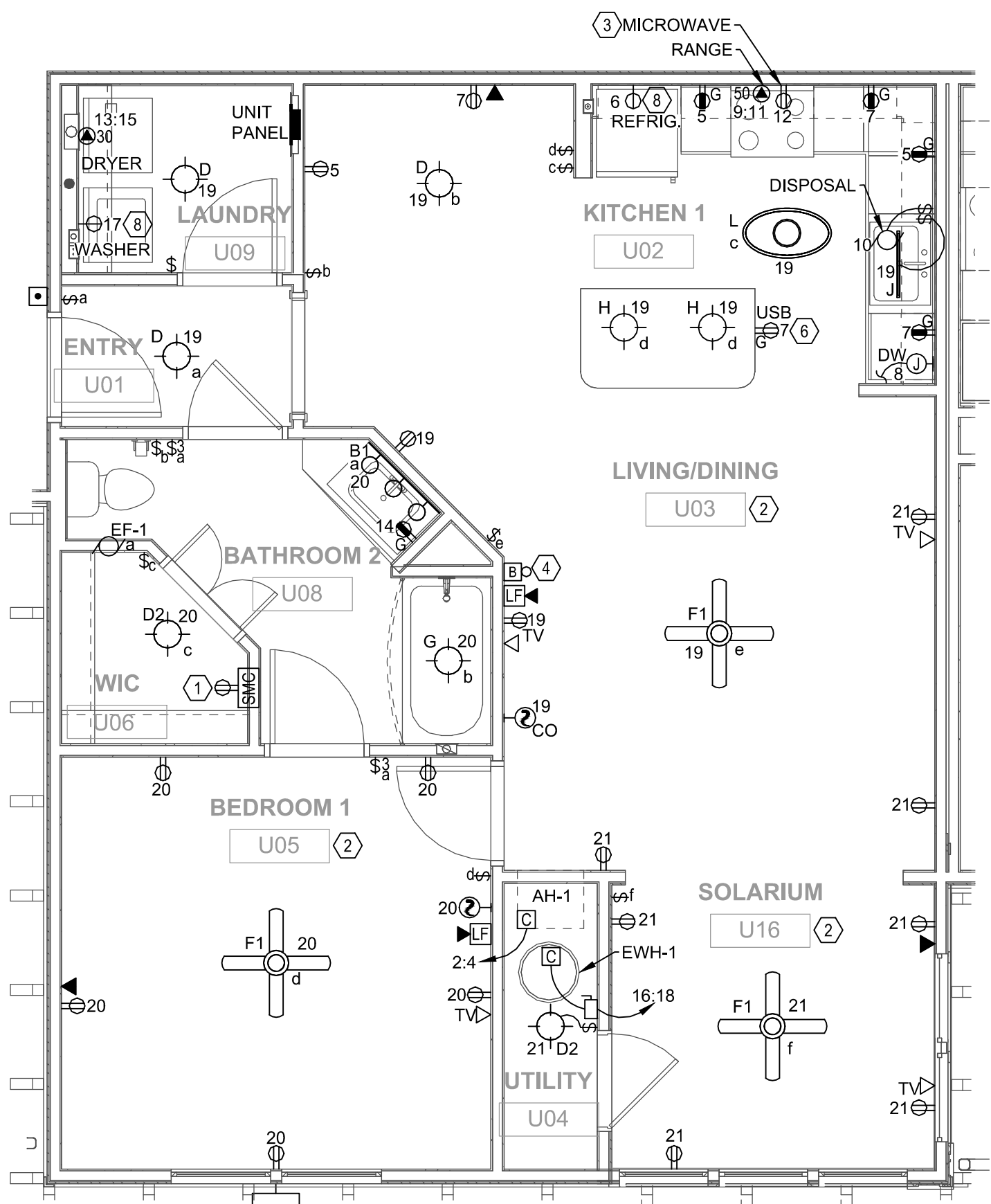




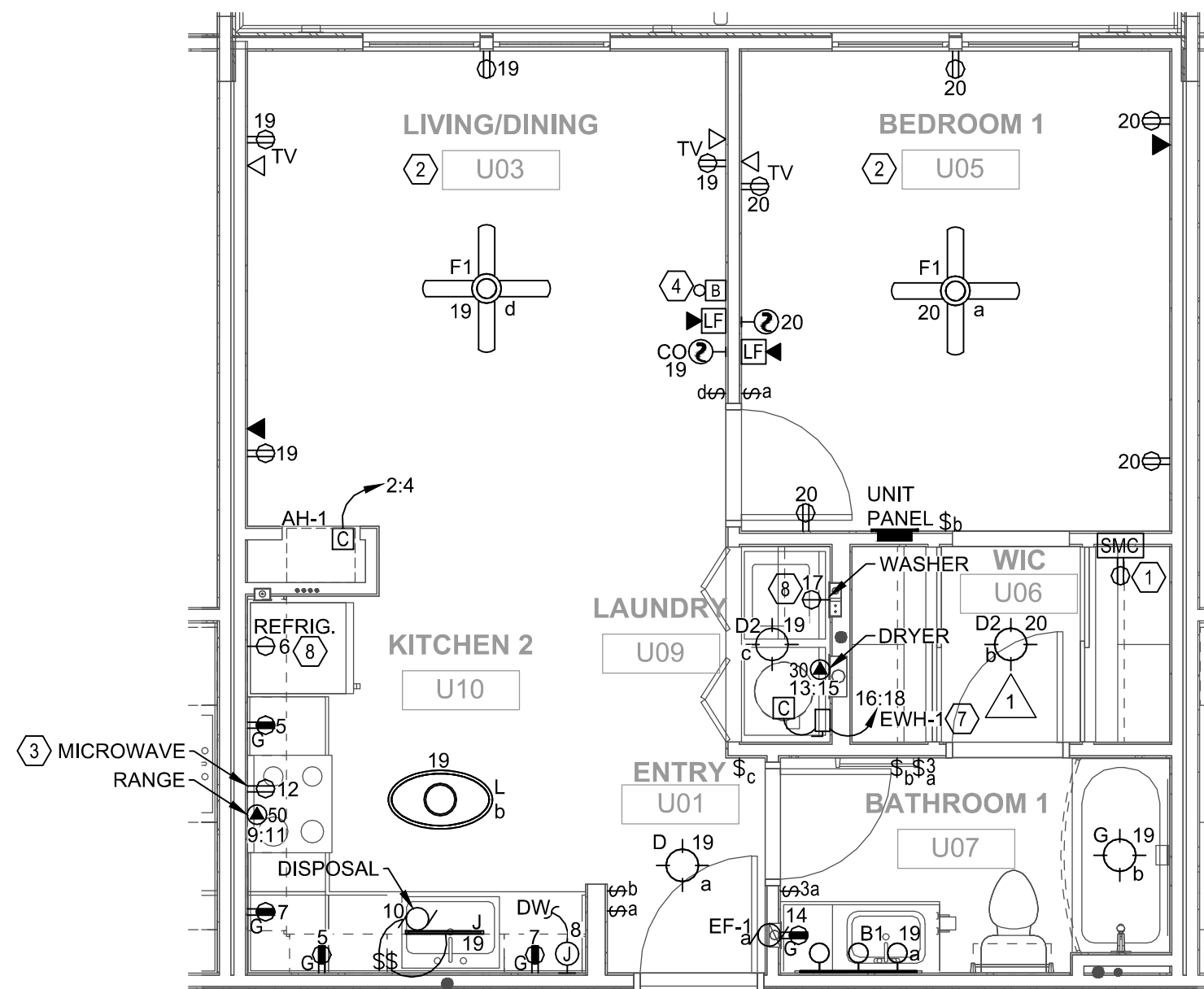
4 UNIT B1 FLOOR PLAN - ELECTRICAL  
E3.01 1/4" = 1'-0"



2 UNIT A1 FLOOR PLAN - ELECTRICAL  
E3.01 1/4" = 1'-0"



3 UNIT A2S FLOOR PLAN - ELECTRICAL  
E3.01 1/4" = 1'-0"



1 UNIT S1 FLOOR PLAN - ELECTRICAL  
E3.01 1/4" = 1'-0"

## REFERENCE NOTES

- RECEPTACLE INSTALLED INSIDE SYSTEM PANEL.
- PROVIDE ARC FAULT CURRENT PROTECTION FOR ALL BRANCH CIRCUITS SUPPLYING FAMILY ROOMS, KITCHENS, DINING ROOMS, LIVING ROOMS, SUNROOMS, BEDROOMS, LAUNDRY ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS, IN ACCORDANCE WITH NEC 210.12(A). NOTE THAT ARC FAULT CIRCUIT PROTECTION REQUIRES A DEDICATED NEUTRAL FROM THE CIRCUIT BREAKER. MULTI-WIRE BRANCH CIRCUITS ARE THEREFORE NOT PERMITTED FOR ARC FAULT CIRCUITS.
- LOCATE OUTLET IN MILLWORK FOR MICROWAVE/EXHAUST FAN. REFER TO ARCHITECTURAL DRAWING FOR ADDITIONAL INFORMATION.
- PROVIDE STEP DOWN TRANSFORMER/CHIME/DOORBELL AND CONNECT COMPLETE.
- FLUSH MOUNTED JUNCTION BOX USED FOR LIGHT SHALL BE U.L. LISTED FOR OWNER'S FUTURE USE AS A SOLE SUPPORT OF A CEILING SUSPENDED (PADDLE) FAN. PROVIDE JUNCTION BOX IN ACCORDANCE WITH NEC 314.27 RATED FOR 35lbs AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE HOT WIRE CAPPED IN JUNCTION BOX FOR PULL CHAIN CONTROL IN FAN.
- LOCATE TOP OF OUTLET/SWITCH COVER PLATE 1" BELOW BOTTOM OF MILLWORK DRAWERS.
- MOUNTED ABOVE DRYER.
- PROVIDE 20A/120V SINGLE RECEPTACLE.

## GENERAL NOTES

- VERIFY EXACT LOCATION OF EQUIPMENT WITH RESPECT TO CONTRACTOR PRIOR TO INSTALLATION.
- ALL CIRCUITS ORIGINATE FROM THE RESPECTIVE UNIT PANEL LOCATED WITHIN THE UNIT, UNLESS NOTED OTHERWISE.
- REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.03 FOR ALL MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.
- ALL OUTLETS SHALL BE SPACED IN ACCORDANCE WITH NEC ARTICLE 210.52.
- ALL OUTLETS SHALL BE TAMPER RESISTANT IN ACCORDANCE WITH NEC ARTICLE 406.12.
- ADJUST ELECTRICAL INSTALLATION AS NECESSARY FOR "MIRRORED" UNITS.
- REFER TO DRAWING E4.02 FOR UNIT PANEL SCHEDULES.
- REFER TO BUILDING PLANS FOR CONDENSING UNIT LOCATIONS. REFER TO UNIT PANEL SCHEDULE AND EQUIPMENT FEEDER SCHEDULE FOR FEEDER, CIRCUIT BREAKER AMPERAGE AND DISCONNECT SWITCH REQUIREMENTS. TYPICAL FOR EACH UNIT.

## ISSUE HISTORY

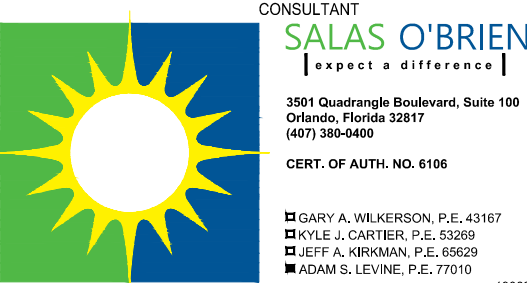
No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

## REVISION HISTORY

No.	Date	Description
1	05/06/20	PERMIT COMMENT RESPONSES



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PLLC  
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595  
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THE ROBERT

FT. MYERS, FL

UNIT PLANS - ELECTRICAL

E3.01







<b>MULTI-FAMILY OPTIONAL SERVICE CALCULATION: NEC 220.84</b>					
<b>PROJECT: THE ROBERT APARTMENTS</b>					
<b>BUILDING: BUILDING TYPE 1 METER CENTER</b>				<b>NUMBER OF UNITS:</b>	<b>22</b>
<b>QUAN.</b>	<b>UNIT TYPE</b>	<b>COMPUTED LOAD</b>	<b>TOTAL</b>		
4	A1	@ 36,158 =	144,632	VA	
14	B1	@ 37,037 =	518,518	VA	
4	B2S	@ 37,310 =	149,240	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		@ =	0	VA	
		NET COMPUTED LOAD =	812,390	VA	
<b>DEMAND PER TABLE 220.84</b>					
812,390	VA X	0.36	DEMAND FACTOR =	292,460	VA
			OR =	813	AMPS
			HOUSE PANEL "H1"	23,840	VA
			OR =	66	AMPS
<b>TOTAL SERVICE ENTRANCE DEMAND = 316,300 VA</b>					
			OR =	879	AMPS

MULTI-FAMILY OPTIONAL SERVICE CALCULATION: NEC 220.84					
PROJECT: THE ROBERT APARTMENTS					
BUILDING: BUILDING TYPE 2 METER CENTER				NUMBER OF UNITS: 27	
QUAN.	UNIT TYPE	COMPUTED LOAD	TOTAL		
5	S1	@ 35,510	=	177,550	VA
10	A1	@ 36,158	=	361,580	VA
4	A2S	@ 36,431	=	145,724	VA
8	C1	@ 37,568	=	300,544	VA
		@	=	0	VA
		@	=	0	VA
		@	=	0	VA
		@	=	0	VA
		@	=	0	VA
		@	=	0	VA
		@	=	0	VA
		@	=	0	VA
		@	=	0	VA
		NET COMPUTED LOAD	=	985,398	VA
DEMAND PER TABLE 220.84					
985,398	VA	X	0.34	DEMAND FACTOR	= 335,035 VA
				OR	= 931 AMPS
				HOUSE PANEL 142"	= 22,760 VA
				OR	= 63 AMPS
TOTAL SERVICE ENTRANCE DEMAND = 357,795 VA					
				OR	= 994 AMPS

SINGLE FAMILY OPTIONAL SERVICE CALCULATION: NEC 220.82					
PROJECT: THE ROBERT APARTMENTS					
UNIT TYPE: B1					
QUAN.	DESCRIPTION	CONNECTED LOAD		TOTAL	
1067	SQUARE FOOTAGE	@	3	=	3,201 VA
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000 VA
1	LAUNDRY CIRCUIT	@	1,500	=	1,500 VA
1	DRYER (NAMEPLATE)	@	4,400	=	4,400 VA
1	EWI (NAMEPLATE)	@	6,000	=	6,000 VA
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500 VA
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200 VA
1	MICROWAVE (NAMEPLATE)	@	1,200	=	1,200 VA
1	DISPOSAL (NAMEPLATE)	@	850	=	850 VA
1	RANGE (NAMEPLATE)	@	10,000	=	10,000 VA
2	EXHAUST FANS	@	108	=	216 VA
	SUB-TOTAL (OTHER LOAD)				33,067 VA
1	AHU	@	270	=	270 VA
1	COND. UNIT.	@	1,664	=	1,664 VA
0	HEAT PUMP	@		=	0 VA
1	HEAT STRIP	@	3,700	=	3,700 VA
	TOTAL CONNECTED LOAD				38,701 VA
	1st 10KVA OF OTHER LOAD	@	100%	=	10,000 VA
	REMAINDER OF OTHER LOAD	@	40%	=	9,227 VA
	* HVAC DEMAND			=	2,675 VA
	TOTAL UNIT FEEDER DEMAND			=	21,902 VA
	FEEDER DEMAND AMPS AT	208	=	105 AMPS	
	NEUTRAL DEMAND AMPS		=	87 AMPS	
* HVAC DEMAND EQUALS LARGEST OF THE FOLLOWING					
AHU & COND. UNIT @ 100% OR AHU & HEAT PUMP @ 100%					
AHU @ 100% & HEAT STRIP @ 65%					
AHU @ 100% & HT PUMP @ 100% & HT. STRIP @ 65%					

MULTI-FAMILY OPTIONAL SERVICE CALCULATION: NEC 220.84				
PROJECT: THE ROBERT APARTMENTS				
BUILDING: BUILDING TYPE 3 METER CENTER			NUMBER OF UNITS: 32	
QUAN.	UNIT TYPE	COMPUTED LOAD	TOTAL	
10	A1	@ 36,158	=	361,580 VA
4	A2S	@ 36,431	=	145,724 VA
6	B1	@ 37,037	=	222,222 VA
4	B2S	@ 37,310	=	149,240 VA
8	C1	@ 37,568	=	300,544 VA
		@	=	0 VA
		@	=	0 VA
		@	=	0 VA
		@	=	0 VA
		@	=	0 VA
		@	=	0 VA
		@	=	0 VA
		@	=	0 VA
		@	=	0 VA
		NET COMPUTED LOAD	=	1,179,310 VA
DEMAND PER TABLE 220.84				
1,179,310	VA X	0.31	DEMAND FACTOR	= 365,586 VA
			OR	= 1,016 AMPS
			HOUSE PANELS 'HGA' & 'HGB'	= 58,980 VA
			OR	= 163 AMPS
			TOTAL SERVICE ENTRANCE DEMAND	= 424,566 VA
			OR	= 1,178 AMPS

SINGLE FAMILY OCCUPANT SERVICE CALCULATION: NEC 220.82					
PROJECT: THE ROBERT APARTMENTS					
UNIT TYPE: S1					
QUAN.	DESCRIPTION	CONNECTED LOAD		TOTAL	
594	SQUARE FOOTAGE	@	3	=	1,782 VA
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000 VA
1	LAUNDRY CIRCUIT	@	1,500	=	1,500 VA
1	DRYER (NAMEPLATE)	@	4,400	=	4,400 VA
1	EWB (NAMEPLATE)	@	6,000	=	6,000 VA
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500 VA
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200 VA
1	MICROWAVE (NAMEPLATE)	@	1,200	=	1,200 VA
1	DISPOSAL (NAMEPLATE)	@	850	=	850 VA
1	RANGE (NAMEPLATE)	@	10,000	=	10,000 VA
1	EXHAUST FANS	@	108	=	108 VA
		SUB-TOTAL (OTHER LOAD)		=	31,540 VA
1	AHU	@	270	=	270 VA
1	COND UNIT.	@	1,456	=	1,456 VA
0	HEAT PUMP	@		=	0 VA
1	HEAT STRIP	@	3,700	=	3,700 VA
		TOTAL CONNECTED LOAD		=	36,966 VA
	1st 10KVA OF OTHER LOAD	@	100%	=	10,000 VA
	REMAINDER OF OTHER LOAD	@	40%	=	8,616 VA
	* HVAC DEMAND			=	2,675 VA
		TOTAL UNIT FEEDER DEMAND		=	21,291 VA
		FEEDER DEMAND AMPS AT	208	=	102 AMPS
		NEUTRAL DEMAND AMPS		=	85 AMPS
	* HVAC DEMAND EQUALS LARGEST OF THE FOLLOWING				
	AHU & COND. UNIT @ 100% OR AHU & HEAT PUMP @ 100%				
	AHU @ 100% & HEAT STRIP @ 65%				
	AHU @ 100% & HT PUMP @ 100% & HT. STRIP @ 65%				

SINGLE FAMILY OPTIONAL SERVICE CALCULATION: NEC 220.82					
PROJECT: THE ROBERT APARTMENTS					
UNIT TYPE: B2S					
QUAN.	DESCRIPTION	CONNECTED LOAD	TOTAL		
1158	SQUARE FOOTAGE	@ 3	=	3,474	VA
2	SMALL APPLIANCE CIRCUITS	@ 1,500	=	3,000	VA
1	LAUNDRY CIRCUIT	@ 1,500	=	1,500	VA
1	DRYER (NAMEPLATE)	@ 4,400	=	4,400	VA
1	EWI (NAMEPLATE)	@ 6,000	=	6,000	VA
1	REFRIGERATOR (NAMEPLATE)	@ 1,500	=	1,500	VA
1	DISHWASHER (NAMEPLATE)	@ 1,200	=	1,200	VA
1	MICROWAVE (NAMEPLATE)	@ 1,200	=	1,200	VA
1	DISPOSAL (NAMEPLATE)	@ 850	=	850	VA
1	RANGE (NAMEPLATE)	@ 10,000	=	10,000	VA
2	EXHAUST FANS	@ 108	=	216	VA
	SUB-TOTAL (OTHER LOAD)		=	33,340	VA
1	AHU	@ 270	=	270	VA
1	COND. UNIT.	@ 1,664	=	1,664	VA
0	HEAT PUMP	@	=	0	VA
1	HEAT STRIP	@ 3,700	=	3,700	VA
	TOTAL CONNECTED LOAD		=	38,974	VA
	1st 10KVA OF OTHER LOAD	@ 100%	=	10,000	VA
	REMAINDER OF OTHER LOAD	@ 40%	=	9,336	VA
	* HVAC DEMAND		=	2,675	VA
	TOTAL UNIT FEEDER DEMAND		=	22,011	VA
	FEEDER DEMAND AMPS AT	208	=	106	AMPS
	NEUTRAL DEMAND AMPS		=	88	AMPS
* HVAC DEMAND EQUALS LARGEST OF THE FOLLOWING					
AHU & COND. UNIT @ 100% OR AHU & HEAT PUMP @ 100%					
AHU @ 100% & HEAT STRIP @ 65%					
AHU @ 100% & HT PUMP @ 100% & HT. STRIP @ 65%					

SINGLE FAMILY OPTIMAL SERVICE CALCULATION: NEC 220.82					
PROJECT: THE ROBERT APARTMENTS					
UNIT TYPE: A1					
QUAN.	DESCRIPTION	CONNECTED LOAD			TOTAL
810	SQUARE FOOTAGE	@	3	=	2,430 VA
2	SMALL APPLIANCE CIRCUITS	@	1,500	=	3,000 VA
1	LAUNDRY CIRCUIT	@	1,500	=	1,500 VA
1	DRYER (NAMEPLATE)	@	4,400	=	4,400 VA
1	EWI (NAMEPLATE)	@	6,000	=	6,000 VA
1	REFRIGERATOR (NAMEPLATE)	@	1,500	=	1,500 VA
1	DISHWASHER (NAMEPLATE)	@	1,200	=	1,200 VA
1	MICROWAVE (NAMEPLATE)	@	1,200	=	1,200 VA
1	DISPOSAL (NAMEPLATE)	@	850	=	850 VA
1	RANGE (NAMEPLATE)	@	10,000	=	10,000 VA
1	EXHAUST FANS	@	108	=	108 VA
		SUB-TOTAL (OTHER LOAD)			32,188 VA
1	AHU	@	270	=	270 VA
1	COND UNIT.	@	1,456	=	1,456 VA
0	HEAT PUMP	@		=	0 VA
1	HEAT STRIP	@	3,700	=	3,700 VA
		TOTAL CONNECTED LOAD			37,614 VA
	1st 10KVA OF OTHER LOAD	@	100%	=	10,000 VA
	REMAINDER OF OTHER LOAD	@	40%	=	8,875 VA
* HVAC DEMAND				=	2,875 VA
		TOTAL UNIT FEEDER DEMAND			21,550 VA
	FEEDER DEMAND AMPS AT	208	=		104 AMPS
	NEUTRAL DEMAND AMPS		=		86 AMPS
* HVAC DEMAND EQUALS LARGEST OF THE FOLLOWING					
AHU & COND. UNIT @ 100% OR AHU & HEAT PUMP @ 100%					
AHU @ 100% & HEAT STRIP @ 65%					
AHU @ 100% & HT PUMP @ 100% & HT. STRIP @ 65%					

SINGLE FAMILY OPTIONAL SERVICE CALCULATION: NEC 220.82					
PROJECT: THE ROBERT APARTMENTS					
UNIT TYPE: A2S					
QUAN	DESCRIPTION	CONNECTED LOAD	TOTAL		
901	SQUARE FOOTAGE	@ 3	=	2,703	VA
2	SMALL APPLIANCE CIRCUITS	@ 1,500	=	3,000	VA
1	LAUNDRY CIRCUIT	@ 1,500	=	1,500	VA
1	DRYER (NAMEPLATE)	@ 4,400	=	4,400	VA
1	EWI (NAMEPLATE)	@ 6,000	=	6,000	VA
1	REFRIGERATOR (NAMEPLATE)	@ 1,500	=	1,500	VA
1	DISHWASHER (NAMEPLATE)	@ 1,200	=	1,200	VA
1	MICROWAVE (NAMEPLATE)	@ 1,200	=	1,200	VA
1	DISPOSAL (NAMEPLATE)	@ 850	=	850	VA
1	RANGE (NAMEPLATE)	@ 10,000	=	10,000	VA
1	EXHAUST FANS	@ 108	=	108	VA
	SUB-TOTAL (OTHER LOAD)			32,461	VA
1	AHU	@ 270	=	270	VA
1	COND. UNIT.	@ 1,456	=	1,456	VA
0	HEAT PUMP	@	=	0	VA
1	HEAT STRIP	@ 3,700	=	3,700	VA
	TOTAL CONNECTED LOAD			37,887	VA
	1st 10KVA OF OTHER LOAD	@ 100%	=	10,000	VA
	REMAINDER OF OTHER LOAD	@ 40%	=	8,994	VA
	* HVAC DEMAND		=	2,675	VA
	TOTAL UNIT FEEDER DEMAND		=	21,659	VA
	FEEDER DEMAND AMPS AT	208	=	104	AMPS
	NEUTRAL DEMAND AMPS		=	86	AMPS
* HVAC DEMAND EQUALS LARGEST OF THE FOLLOWING					
AHU & COND. UNIT @ 100% OR AHU & HEAT PUMP @100%					
AHU @ 100% & HEAT STRIP @ 65%					
AHU @ 100% & HT PUMP @ 100% & HT. STRIP @ 65%					

SINGLE FAMILY OPTIONAL SERVICE CALCULATION: NEC 220.82					
PROJECT: THE ROBERT APARTMENTS					
UNIT TYPE: C1					
QUAN.	DESCRIPTION	CONNECTED LOAD	TOTAL		
1244	SQUARE FOOTAGE	@ 3	=	3,732	VA
2	SMALL APPLIANCE CIRCUITS	@ 1,500	=	3,000	VA
1	LAUNDRY CIRCUIT	@ 1,500	=	1,500	VA
1	DRYER (NAMEPLATE)	@ 4,400	=	4,400	VA
1	EWI (NAMEPLATE)	@ 6,000	=	6,000	VA
1	REFRIGERATOR (NAMEPLATE)	@ 1,500	=	1,500	VA
1	DISHWASHER (NAMEPLATE)	@ 1,200	=	1,200	VA
1	MICROWAVE (NAMEPLATE)	@ 1,200	=	1,200	VA
1	DISPOSAL (NAMEPLATE)	@ 850	=	850	VA
1	RANGE (NAMEPLATE)	@ 10,000	=	10,000	VA
2	EXHAUST FANS	@ 108	=	216	VA
SUB-TOTAL (OTHER LOAD)				=	33,598 VA
1	AHU	@ 270	=	270	VA
1	COND. UNIT.	@ 1,664	=	1,664	VA
0	HEAT PUMP	@	=	0	VA
1	HEAT STRIP	@ 3,700	=	3,700	VA
TOTAL CONNECTED LOAD				=	39,232 VA
1st 10KVA OF OTHER LOAD		@ 100%	=	10,000	VA
REMAINDER OF OTHER LOAD		@ 40%	=	9,439	VA
* HVAC DEMAND			=	2,675	VA
TOTAL UNIT FEEDER DEMAND				=	22,114 VA
FEEDER DEMAND AMPS AT		208	=	106	AMPS
NEUTRAL DEMAND AMPS			=	88	AMPS
* HVAC DEMAND EQUALS LARGEST OF THE FOLLOWING					
AHU & COND. UNIT @ 100% OR AHU & HEAT PUMP @ 100%					
AHU @ 100% & HEAT STRIP @ 65%					
AHU @ 100% & HT. PUMP @ 100% & HT. STRIP @ 65%					

**CITY OF FORT MYERS**

THIS PLAN REVIEWED FOR SUBSTANTIAL CODE COMPLIANCE WITH ALL APPLICABLE CODES.

DATE APPROVED: 06/17/20  
 PERMIT NUMBER: BLD2020-00848  
 PROPERTY ADDRESS: 3810 OLD BERRY POINT

JOB DESCRIPTION: New construction of a 3 story apartment building that includes 27 units of a 4 types and 6 direct entry direct entry garage units. The building prov

[illegible]FUGLEBERG KOCH  
PLLC

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**SALAS O'BRIEN**  
[ expect a difference ]  
3501 Quadrangle Boulevard, Suite 100  
Orlando, Florida 32817  
(407) 380-0400  
CERT. OF AUTH. NO. 6106

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- KYLE J. CARTIER, P.E., 55269
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<h1>THE ROBERT</h1> <p><i>FT. MYERS, FL</i></p>	Drawn:	SWC
	Checked:	GPM
	Approved:	ASL
	Date:	09/10/2019
	Project #:	5592

## SCHEDULES - ELECTRICAL

## E4.01



VOLTS L-N : 120		MAIN OPTIONS REQUIRED	PANEL : UNIT A1		CLOSURE DATA
VOLTS PH : 208	S.E. RATED : N/A	MCB : N/A	AMPS	NEMA : 1	
PHASE : 1	GFI PROT. : N/A	MLO : 125	AMPS	SECTIONS : 1	
MOUNTING : FLUSH	SHUNT TRIP : N/A			WIDTH SECT. : 14.25	
MFR : SQ. D.				DEPTH : 3.75	
TYPE : QO	AIC RATING (FULLY RATED OR SERIES RATED) :	65 KA (MINIMUM, SEE SPECIFICATIONS)			

NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	O.K.T. NUM.	O.K.T. NUM.	C.B. POLES	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
2	CU-1	7	7		15	2	1	2	2	25	19	19	AH-1	2
2	===	7		7	===	===	3	4	===	===	19	19	===	2
1	SMALL APPLIANCE	12	12		20	1	5	8	1	20	10	10	REFRIGERATOR	1
1	SMALL APPLIANCE	12		12	20	1	7	8	1	20		8	DISHWASHER	3
	RANGE	40	40		50	2	9	10	1	20	8	8	DISPOSAL	1
	=====	40		40	=====	=====	11	12	1	20		8	MICROWAVE/HOOD	1
	DRYER	24	24		30	2	13	14	1	20	2	1	BATHROOM RECEPT.	
	=====	24		24	=====	=====	15	16	2	40	29	29	EWH-1	2
3	WASHER	10	10		20	1	17	18	===	=====	29	29	=====	2
1	LIGHTS/RECEPTACLES	1200		10	15	1	19	20	1	15	10	1200	BEDROOM LTS/RECTPS	1
1	LIGHTS/RECEPTACLES	1200	10		15	1	21	22	1		0		SPACE	
	SPACE			0		1	23	24	1		0		SPACE	

171 : AMPS PHASE A		AMP	KVA
167 : AMPS PHASE B		ACTUAL CONN. LOAD :	195      41
		NEC DEMAND :	109     23

**PANL NOTES:**

- (1) PROVIDE AFCI CIRCUIT BREAKER PER NEC 210.12(A).
- (2) COORDINATE CIRCUIT BREAKER SIZE WITH MECHANICAL CONTRACTOR.
- (3) PROVIDE COMBINATION GFI AND AFCI TYPE CIRCUIT BREAKER.

[illegible][illegible][illegible][illegible][illegible][illegible]

<p><b>THE ROBERT</b></p> <p><i>FT. MYERS, FL</i></p>	Drawn:	SWC
	Checked:	GPM
	Approved:	ASL
	Date:	09/10/2019
Project #:		5592

**SCHEDULES - ELECTRICAL**

**E4.02**



VOLTS L-N : 120

VOLTS PH. : 208

PHASE : 3

MOUNTING : SURFACE

MFR : SQ. D.

TYPE : QD

MAIN OPTIONS REQUIRED

S.E. RATED : N/A

GF PROT. : N/A

SHUNT TRIP : N/A

PANEL: H1

MGB : N/A

MLO : 125

AMPS

ENCLOSURE DATA

NEMA : 3R

SECTIONS : 1

WIDTH/SECT. : 14.75

DEPTH : 4.52

AIC RATING (FULLY RATED OR SERIES RATED):

65 KA (MINIMUM. SEE SPECIFICATIONS)

NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	AMPS	C.B. POLES	C.K.T. NUM.	C.K.T. NUM.	C.B. POLES	AMPS	AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	LEV 1 COR LTS/EMERG.	1200	10			20	1	1	2	20	5		3		CORR. RECEPT. LEVEL 1	
	LEV 2 COR LTS/EMERG.	1100		9		20	1	3	4	1	20		5	3	CORR. RECEPT. LEVEL 2	
	LEV 3 COR LTS/EMERG.	1100			9	20	1	5	6	1	20		8	5	CORR. RECEPT. LEVEL 3	
2	EXTERIOR LTS/EMERG.	850	7			20	1	7	8	1	20	6		4	OUTDOOR RECEPT.	
	UNIT HEATER HI	8		8		20	1	9	10	1	20		6	4	OUTDOOR RECEPT.	
1	FIRE PROTECT. BELL	3			3	20	1	11	12	1	20		7	850	LEV 1 LTS/RECEP/EMERG	
1	FACP	5	5			20	1	13	14	1	20	3		2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2		3		20	1	15	16	1	20		10	10	GARAGE DOOR	
	GARAGE DOOR	2		10		20	1	17	18	1	20		3	2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2	3			20	1	19	20	1	20	10		10	GARAGE DOOR	
	GARAGE DOOR	10		10		20	1	21	22	1	20	3		2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2		3		20	1	23	24	1	20		10	10	GARAGE DOOR	
	GARAGE DOOR	10	10			20	1	25	26	1	20	3		3	TTT-C-A	
3	LANDSCAPE LIGHTS	1000		8		20	1	27	28	1	20	3		3	TTT-C-A	
3	LANDSCAPE LIGHTS	1000			8	20	1	29	30	1	20		3	3	TTT-C-B	
1	BDA SYSTEM	5	5			20	1	31	32	1	20	3		3	TTT-C-B	
	SPARE			0		20	1	33	34	1	20	0			SPACE	
	SPARE			0		20	1	35	36	1			0		SPACE	
	SPARE	0				1	37	38	3	30	0				SURGE PROT. DEVICE	
	SPARE			0		1	39	40	===	===		0			===	
	SPARE			0		1	41	42	===	===		0			===	
										AMPS		KVA				
70 : AMPS PHASE A										ACTUAL CONN. LOAD :		66		24		
85 : AMPS PHASE B										NEC DEMAND :		66		24		
94 : AMPS PHASE C																

PANEL NOTES:

1) PROVIDE CIRCUIT BREAKER WITH RED LOCKING HANDLE.

2) CONNECT CIRCUIT VIA PHOTOCELL FOR CONTROL OF EXTERIOR/STAR LIGHTS.

3) LANDSCAPE LIGHTING TO BE PROVIDED UNDER SEPARATE CONTRACT.

VOLTS LN : 120

VOLTS PH : 208

PHASE : 3

MOUNTING : SURFACE

MFR : SQ. D.

TYPE : QO

MAIN OPTIONS REQUIRED

S.E. RATED : N/A

GFI PROT. : N/A

SHUNT TRIP : N/A

PANEL : H3A

MGB : N/A

MPS : 125

ENCLOSURE DATA

NEMA : 3R

SECTIONS : 1

WIDTH/SECT. : 15

DEPTH : 4.52

AIC RATING (FULLY RATED OR SERIES RATED):

65 KA (MINIMUM. SEE SPECIFICATIONS)

NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	AMPS	C.B AMPS	C.B POLES	CKT NUM	CKT NUM	C.B. POLES	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	LEV 1 COR LTS/EMERG	1200	10			20	1	1	2	1	20	5				3						CORR. RECEPT. LEVEL 1	
	LEV 2 COR LTS/EMERG	1100		9		20	1	3	4	1	20		5	3								CORR. RECEPT. LEVEL 2	
	LEV 3 COR LTS/EMERG	1100			9	20	1	5	6	1	20			8	5							CORR. RECEPT. LEVEL 3	
2	EXTERIOR LTS/EMERG	850	7			20	1	7	8	1	20	6				4						OUTDOOR RECEPT.	
	UNIT HEATER HI	8		8				9	10	1	20		6			4						OUTDOOR RECEPT.	
1	FIRE PROTECT. BELL	3			3	20	1	11	12	1	20			7	850							LEV 1 LTS/RECEIPT/EMERG	
1	FACP	5	5			20	1	13	14	1	20	3				2						GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2		3		20	1	15	16	1	20		10			10						GARAGE DOOR	
	GARAGE DOOR			10		20	1	17	18	1	20			3	2							GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2	3			20	1	19	20	1	20	10				10						GARAGE DOOR	
	GARAGE DOOR		10	10		20	1	21	22	1	20		3	3								ITTC-A	
	GARAGE LTS/RECEPT.	2			3	20	1	23	24	1	20			3	3							ITVTC-A	
	GARAGE DOOR	10	10			20	1	25	26	1	20	0										SPARE	
3	LANDSCAPE LIGHTS	1000		8		20	1	27	28	1	20		0									SPARE	
3	LANDSCAPE LIGHTS	1000			8	20	1	29	30	1	20		0	0								SPARE	
1	BDA SYSTEM	5	5			20	1	31	32	1		0										SPACE	
	SPARE			0		20	1	33	34	1		0		0								SPACE	
	SPARE			0		20	1	35	36	1		0		0								SPACE	
	SPACE		0			1	37	38	3	30	0											SURGE PROT. DEVICE	
	SPACE			0		1	39	40	===	===			0									===	
	SPACE				0	1	41	42	===	===				0								===	

44 : AMPS PHASE A

42 : AMPS PHASE B

54 : AMPS PHASE C

AMPS KVA

ACTUAL CONN. LOAD : 60 22

NEC DEMAND : 60 22

PANEL NOTES:

1) PROVIDE CIRCUIT BREAKER WITH RED LOCKING HANDLE.

2) CONNECT CIRCUIT VIA PHOTOCELL FOR CONTROL OF EXTERIOR/STAIR LIGHTS.

3) LANDSCAPE LIGHTING TO BE PROVIDED UNDER SEPARATE CONTRACT.

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VOLTS LN: 120		MAIN OPTIONS REQUIRED		PANEL: H2		ENCLOSURE DATA													
VOLTS PH: 208		S.E. RATED: N/A		MCB: N/A		NEMA: 3R													
PHASE: 3		GFI PROT.: N/A		MLO: 125		SECTIONS: 1													
MOUNTING: SURFACE		SHUNT TRIP: N/A				WIDTH/SECT: 15													
MFR: SQ. D.						DEPTH: 4.52													
TYPE: QO																			
AIC RATING (FULLY RATED OR SERIES RATED): 65 KA (MINIMUM. SEE SPECIFICATIONS)																			
NOTES	DESCRIPTION	CONN	LOAD	AMPS	AMPS	AMPS	AMPS	C.B. POLES	CKT. NUM.	CKT. NUM.	POLES	AMPS	AMPS	AMPS	AMPS	AMPS	AMPS	DESCRIPTION	NOTES
	LEV 1 COR LTS/EMERG	1200	10				20	1	1	2	1	20	0				3	CORR. RECEPT. LEVEL 1	
	LEV 2 COR LTS/EMERG	1100		9			20	1	3	4	1	20	0	0			3	CORR. RECEPT. LEVEL 2	
	LEV 3 COR LTS/EMERG	1100			9		20	1	5	6	1	20			8	5	3	CORR. RECEPT. LEVEL 3	
2	EXTERIOR LTS/EMERG	850	7				20	1	7	8	1	20	6				4	OUTDOOR RECEPT.	
	UNIT HEATER HI	8		8			20	1	9	10	1	20		6			4	OUTDOOR RECEPT.	
1	FIRE PROTECT. BELL	3			3		20	1	11	12	1	20			7	850	LEV 1 LTS/RECP/EMERG		
1	FACP	5	5				20	1	13	14	1	20	3				2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2		3			20	1	15	16	1	20		10			10	GARAGE LTS/RECEPT.	
	GARAGE DOOR	10			10		20	1	17	18	1	20			3	2	3	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2	3				20	1	19	20	1	20	10				10	GARAGE DOOR	
	GARAGE DOOR	10	10				20	1	21	22	1	20	3				2	GARAGE LTS/RECEPT.	
	GARAGE LTS/RECEPT.	2			3		20	1	23	24	1	20		10	10		10	GARAGE DOOR	
	GARAGE DOOR	10	10				20	1	25	26	1	20	3				3	TTT-C	
3	LANDSCAPE LIGHTS	1000		8			20	1	27	28	1	20				3	3	TTVTC-A	
3	LANDSCAPE LIGHTS	1000			8		20	1	29	30	1	20			3	3	3	TTT-C	
1	BDA SYSTEM	5	5				20	1	31	32	1	20	3				3	TTVTC-B	
	SPARE			0			20	1	33	34	1		0				0	SPACE	
	SPARE			0		0	20	1	35	36	1						0	SPACE	
	SPACE		0				1	37	38	3	30	0						SURGE PROT. DEVICE	
	SPACE			0			1	39	40	####	####		0					####	
	SPACE			0		0	1	41	42	####	####		0				0	####	
																		AMPS KVA	
65 : AMPS PHASE A														ACTUAL CONN. LOAD: 63		23			
61 : AMPS PHASE B														NEC DEMAND: 63		23			
64 : AMPS PHASE C																			

PANEL NOTES:

1) PROVIDE CIRCUIT BREAKER WITH RED LOCKING HANDLE.

2) CONNECT CIRCUIT VIA PHOTOCELL FOR CONTROL OF EXTERIOR/STAR LIGHTS (OR LTG. CONTACTOR IF AVAILABLE).

3) LANDSCAPE LIGHTING TO BE PROVIDED UNDER SEPARATE CONTRACT.

4) CONNECT VIA LTG. CONTACTOR 'MX2'.

5) THIS CIRCUIT ONLY REQUIRED IN BUILDINGS #2 & #3.

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<h1>THE ROBERT</h1> <p>FT. MYERS, FL</p>	Drawn:	SWC
	Checked:	GPM
	Approved:	ASL
	Date:	09/19/2019
Project #:		5592
<h2>SCHEDULES - ELECTRICAL</h2>		
<h1>E4.03</h1>		
PLOTTED: 6/4/2020 5:23:35 AM		



VOLTS L-N : 120 VOLTS PH : 240 PHASE : 1 MOUNTING : SURFACE MFR : SQ. D. TYPE : HCM			MAIN OPTIONS REQUIRED S.E. RATED : YES GFI PROT. : N/A SHUNT TRIP : N/A			PANEL : MDP MCB : 600 AMPS MLO : N/A AMPS			ENCLOSURE DATA NEMA : 3R SECTIONS : 1 WIDTH/SECT. : 32 DEPTH : 10					
AIC RATING (FULLY RATED OR SERIES RATED):									65 KA (MINIMUM, SEE SPECIFICATIONS)					
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT NUM	C.B. POLES	C.B. AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
3	AH-1C	47	47		60	2	1	2	2	100	75	75	POOL EQUIPMENT	
3	=====	47		47	=====	=====	3	4	=====	=====	=====	75	75	=====
3	CU-1C	18	18		35	2	5	6	2	20	10	1200	POOL DECK LIGHTS	1,2
3	=====	18		18	=====	=====	7	8	=====	=====	=====	10	1200	=====
3	CU-2C	8	8		15	2	9	10	1	20	10	1200	LANDSCAPE LIGHTS	1,2
3	=====	8		8	=====	=====	11	12	1	20	10	1200	LANDSCAPE LIGHTS	1,2
3	CU-3C	14	14		25	2	13	14	1		0			
3	=====	14		14	=====	=====	15	16	1		0	0		
	SPACE		0				1	17	18	1		0	SPACE	
	SPACE						1	19	20	1		0	SPACE	
	SPACE		0				1	21	22	1		0	SPACE	
	SPACE						1	23	24	1		0	SPACE	
	PANEL HC1 SEC. 1	139	139		175	2	25	26	1		0	0	SPACE	
	=====	139		139	=====	=====	27	28	1		0	0		
	PANEL HC1 SEC. 2	128	128		175	2	29	30	2	30	0		SURGE PROT. DEVICE	
	=====	128		128	=====	=====	31	32	=====	=====	=====	0		

VOLTS L-N : 120 VOLTS L-N : 240 PHASE : 3 MOUNTING : SURFACE MFR : SQ. D TYPE : NG		MAIN OPTIONS REQUIRED S.E. RATED : YES GFI PROT. : N/A SHUNT TRIP : N/A		PANEL : TE MCB : 100 AMPS MLO : N/A AMPS				ENCLOSURE DATA NEMA : 3R SECTIONS : 1 WIDTH/SECT. : 20 DEPTH : 6								
AIC RATING (FULLY RATED OR SERIES RATED):										65 KA (MINIMUM, SEE SPECIFICATIONS)						
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM	CKT. NUM	C.B. POLES	C.B. AMPS	AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
1,2	TRASH COMPACTOR	42	42		80	3	1	2	1	20	1			150	EXTERIOR LIGHTS	
1,2	=====	42		42	=====	=====	3	4	1			0			SPACE (HIGH LEG)	3
1,2	=====	42			42	=====	=====	5	6	1	20		2	1	WPG RECEPTACLE	
	SPARE		0			20	1	7	8	1		0			SPACE	
3	SPACE (HIGH LEG)			0			1	9	10	1					SPACE (HIGH LEG)	3
	SPARE				0	20	1	11	12	1			0		SPACE	
	SPACE		0				1	13	14	3	30	0			SURGE PROT. DEVICE	
3	SPACE (HIGH LEG)			0			1	15	16	=====	=====		0		=====	
	SPACE				0		1	17	18	=====	=====		0		=====	
										AMPS KVA						
43 : AMPS PHASE A										ACTUAL CONN. LOAD : 43 15						
42 : AMPS PHASE B										NEC DEMAND : 43 15						
44 : AMPS PHASE C																
PANEL NOTES:																
1) REFER TO EQUIPMENT FEEDER SCHEDULE FOR CONDUIT AND CONDUCTOR REQUIREMENTS.																
2) VERIFY ELECTRICAL REQUIREMENTS OF EQUIPMENT WITH OWNER'S VENDOR.																
3) THIS PANEL IS FED WITH A 120/240/3PH OPEN DELTA "HIGH-LEG" SERVICE. IDENTIFY HIGH-LEG CONDUCTOR WITH PERMANENT ORANGE IDENTIFICATION AND TERMINATE ON "B" PHASE.																

VOLTS L-N : 120 VOLTS PH : 240 PHASE : 1 MOUNTING : SURFACE MFR : SQ. D TYPE : QO			MAIN OPTIONS REQUIRED S.E. RATED : N/A GFI PROT. : N/A SHUNT TRIP : N/A			PANEL : HC1 (SECTION #1) MCB : N/A AMPS MLO : 200 AMPS			ENCLOSURE DATA NEMA : 1 SECTIONS : 1 WIDTH/SECT. : 14.25 DEPTH : 3.75						
AIC RATING (FULLY RATED OR SERIES RATED):												65 KA (MINIMUM, SEE SPECIFICATIONS)			
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM	CKT. NUM	C.B. POLES	C.B. AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	TTC	5	5		20	1	1	2	1	20	6		750	INTERIOR LTS/EMERG.	5
	TVTC	5		5	20	1	3	4	1	20		5	625	INTERIOR LTS/EMERG.	6
1	FACP	4	4		20	1	5	6	1	20	5		585	INTERIOR LTS/EMERG.	7
	EXERCISE EQUIP RM 77	12		12	20	1	7	8	1	20	5	7	875	EXTERIOR LIGHTS	2
	EXERCISE EQUIP RM 77	12	12		20	1	9	10	1	20	5		650	CEILING FANS ROOM 77	
	EXERCISE EQUIP RM 77	12		12	20	1	11	12	1	20	3	325	CLG FANS LOGGIA 71		
	EXERCISE EQUIP RM 77	12	12		20	1	13	14	1	20	4	475	CEILING FANS ROOM 70		
	EXERCISE EQUIP RM 77	12		12	20	1	15	16	1	20		6	4	RECEPTS-ROOM 70	
	EXERCISE EQUIP RM 77	12	12		20	1	17	18	1	20	8	8		FLOOR RECEPT-RM 70	
	RECEPT-RM 75, 76, 79	4		6	20	1	19	20	2	35		28	28	AH-2C	
	RECEPT-RM 72, 73, EXT.		0		20	1	21	22	=====	=====	26	26	=====		
	EXERCISE EQUIP RM 77	12		12	20	1	23	24	1	20		6	6	EWG- ROOM 77	4
	RECEPT-ROOM 77	3	5		20	1	25	26	1	20	0			SPARE	
	SURGE-EXT. LOGGIA	10		10	20	1	27	28	2	30		0		SURGE PROT. DEVICE	
	RECEPTS-EXT. LOGGIA	10	10		20	1	29	30	=====	=====	0		=====		
120 : AMPS PHASE A												KVA			
138 : AMPS PHASE B												ACTUAL CONN. LOAD : 128			
												NEC DEMAND : 128			
												31			
PANEL NOTES:															
1) PROVIDE CIRCUIT BREAKER WITH RED LOCKING HANDLE PER NFPA 72.															
2) CONNECT CIRCUIT VIA LIGHTING CONTACTOR 'MXA' FOR CONTROL OF EXTERIOR LIGHTS.															
3) COORDINATE CIRCUIT BREAKER SIZE WITH MECHANICAL CONTRACTOR.															
4) PROVIDE GFI TYPE CIRCUIT BREAKER.															
5) THIS CIRCUIT FEEDS INTERIOR LIGHTS IN ROOMS 72, 73, 74, 75, 76, 77, & 79.															
6) THIS CIRCUIT FEEDS INTERIOR LIGHTS IN ROOMS 59, 60, 61, & 70.															
7) THIS CIRCUIT FEEDS INTERIOR LIGHTS IN ROOMS 63, 64, 65, 66, 67, 69, 75, & 80.															

VOLTS L-N : 120 VOLTS PH : 240 PHASE : 1 MOUNTING : SURFACE MFR : SQ. D. TYPE : QO			MAIN OPTIONS REQUIRED S.E. RATED : N/A GFI PROT. : N/A SHUNT TRIP : N/A			PANEL : HC1 (SECTION #2) MCB : N/A AMPS MLO : 200 AMPS			ENCLOSURE DATA NEMA : 1 SECTIONS : 1 WIDTH/SECT. : 14.25 DEPTH : 3.75						
AIC RATING (FULLY RATED OR SERIES RATED):									65 KA (MINIMUM, SEE SPECIFICATIONS)						
NOTES	DESCRIPTION	LOAD CONN	AMPS	AMPS	C.B. AMPS	C.B. POLES	CKT. NUM	CKT. NUM	C.B. POLES	C.B. AMPS	AMPS	AMPS	LOAD CONN	DESCRIPTION	NOTES
	KIT RECEPT-ROOM 70	12	12		20	1	31	32	2	35	25		25	EW#1 - ROOM 75	3
	KIT RECEPT-ROOM 70	12		12	20	1	33	34	=====	=====		25	25		3
	DISPOSAL-RM 70	7	7		20	1	35	36	1	20	6	4		RECEPT-RM 69, 70	
	KIT RECEPT-ROOM 70	12		12	20	1	37	38	1	20		6	4	RECEPT-RM 67, 69	
	DISHWASHER-RM 70	9	9		20	1	39	40	1	20	3	3		MOTORIZED DAMPERS	
	KIT RECEPT-ROOM 70	12		12	20	1	41	42	2	40		32	32	AH-3C	
4	REFRIGERATOR-RM 70	11	11		20	1	43	44	=====	=====	32	32	=====		
	RECEPT-RM 60, 61	4		6	20	1	45	46	1	20		5	5	BOA SYSTEM	1
	RECEPT-RM 59, 60	4	6		20	1	47	48	2	35	25	25	25	EW#2 - ROOM 79	3
	RECEPT-RM 59, 61, 63, 60	5		8	20	1	49	50	=====	=====	25	25	=====		3
4	UC REFRIG-Room 63	5	5		20	1	51	52	1	20	0			SPARE	
	COPIER - ROOM 63	12		12	15	1	53	54	1	20		0		SPARE	
	RECEPT-RM 63, 65, 66, 67	4	6		20	1	55	56	1	20	0			SPARE	
	RECEPT-RM 64, 74, EXT	3		5	20	1	57	58	2	30	0			SURGE PROT. DEVICE	
1	EF-5C	1	1		15	1	59	60	=====	=====	0		=====		









JOB NUMBER: THE ROBERT APARTMENTS - BUILDING TYPE 3		DATE: 06/04/20										
FEEDER FEEDING	CIRCUIT BREAKER			FEEDER CAPACITY	FEEDER VOLT DROP %	PARALLEL RUNS	PHASE WIRE	NEUTRAL WIRE	FEEDER			CONDUIT SIZE
	AMP SIZE	VOLTS	PHASE						GROUND WIRE	ISOLATED GROUND	COPPER/ ALUMINUM	
METER CENTER	1200	208	3	1240	1.80	4	#500	#500	N/A	N/A	ALUMINUM	4"
UNIT PANEL A1	110	208	1	155	1.76	1	#3/0	#3/0	#1/0	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL A2S	110	208	1	135	1.69	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL B1	110	208	1	135	1.83	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL B2S	110	208	1	135	1.83	1	#2/0	#2/0	#1	N/A	ALUMINUM	SE/SER CABLE
UNIT PANEL C1	110	208	1	155	1.82	1	#3/0	#3/0	#1/0	N/A	ALUMINUM	SE/SER CABLE
PANEL H3A	100	208	3	100	0.42	1	#3	#6	#6	N/A	COPPER	1-1/4"
PANEL H3B	175	208	3	175	0.29	1	#2/0	#2/0	#6	N/A	COPPER	2"

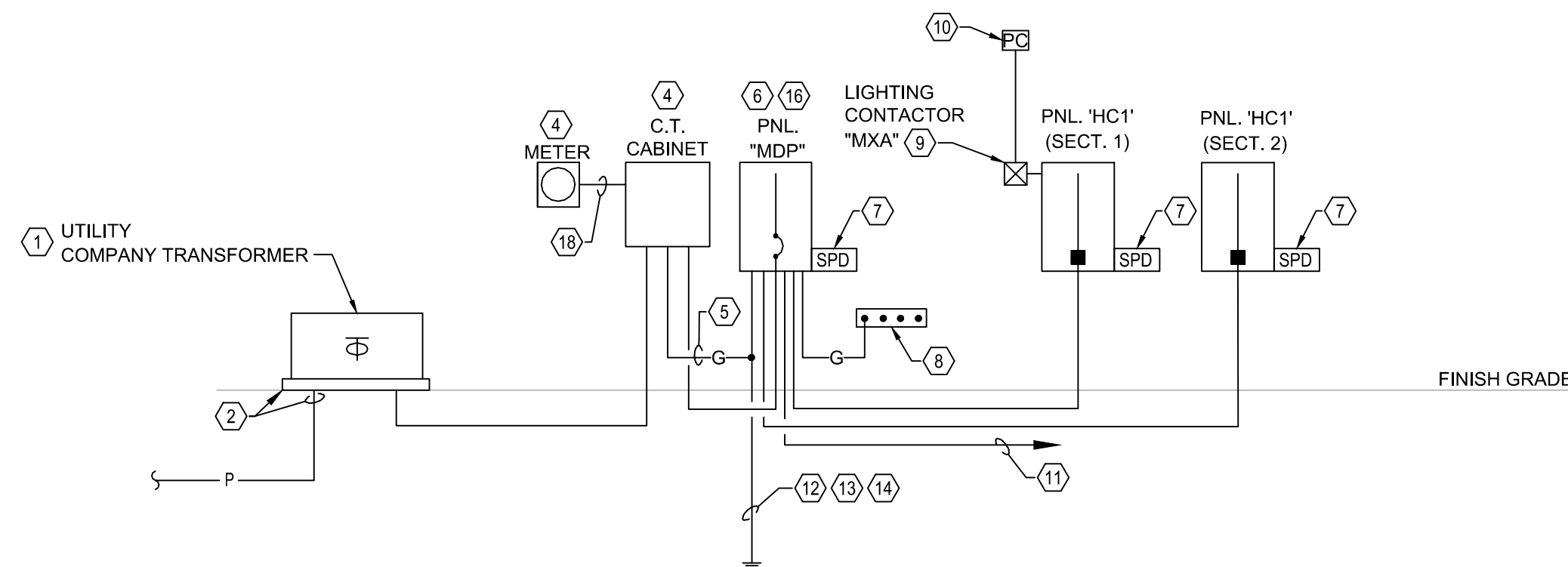
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## E5.02





# 1 CLUBHOUSE POWER RISER DIAGRAM

ELECTRICAL SERVICE CALCULATION					
Project : THE ROBERT APARTMENTS CLUBHOUSE					
NEC	LOAD SERVED	CONN LOAD KVA	DEMAND FACTOR	DEMAND LOAD KVA	DEMAND LOAD AMPS
220.42	<b>LIGHTING</b>				
		9	100%	9	0
220.44	<b>RECEPTACLES</b>				
	1ST 10KVA	9	100%	9	37
	REMANINDER OVER 10 KVA	0	50%	0	0
220.50	<b>MOTORS</b>				
	LARGEST MOTOR (NOTE 2)	5 KVA	25%	1	5
	AIR/FS	0	100%	0	0
	EX FANS	0	100%	0	0
	HEAT PUMPS	0	100%	0	0
	COMPRESSOR/COND UNITS (NOTE 1)	10	80%	8	32
	REMANING MOTORS	0	100%	0	0
220.51	<b>ELECTRIC HEAT</b>				
	AIR/FS WITH ELECTRIC HEAT	25	100%	25	105
	<b>REMAINING LOADS</b>				
	ELECTRIC WATER HEATERS	12	100%	12	50
	MISC. EQUIPMENT	43	100%	43	179
220.60	<b>NOTE 1</b>				
	WHEN COMPRESSOR/COND UNIT				
	LOAD IS NON-COINCIDENTAL TO ELECTRIC				
	HEAT DEMAND EQUALS 100% OF THE LARGEST				
	LOAD AND 0% OF THE NON-COINCIDENTAL				
	SMALLER LOAD OR APPLICABLE PORTION				
430.24	<b>NOTE 2</b>				
	PLUS 25% DEMAND OF LARGEST MOTOR				
	LARGEST MOTOR FULL LOAD INCLUDED IN				
	MOTOR LOADS LISTED				
	<b>VOLTAGE: 120/240V, 3W, 1PH</b>	<b>CONN KVA</b>		<b>DEMAND KVA</b>	<b>DEMAND AMPS</b>
	<b>SUB-TOTALS</b>	<b>108</b>		<b>107</b>	<b>446</b>
230.42	<b>MINIMUM SERVICE SIZE</b>			<b>KVA</b>	<b>AMPS</b>
	DEMAND			107	446
	PLUS 25% OF CONTINUOUS LOADS (LIGHTING)			2	9
430.52	ALLOWANCE FOR MOTOR STARTING (PLUS 75% OF LARGEST MOTOR)			4	15
	PLUS SPARGE FOR EXPANSION	15 %		16	67
	<b>TOTALS</b>			<b>129</b>	<b>537</b>
	<b>SELECTED SERVICE SIZE</b>			<b>144</b>	<b>600</b>

1. COORDINATE EXACT LOCATION OF UTILITY TRANSFORMER WITH CIVIL ENGINEER AND LOCAL POWER COMPANY PRIOR TO ROUGH-IN.
2. ALL UTILITY TRANSFORMER PADS AND UNDERGROUND PRIMARY CONDUIT FURNISHED BY UTILITY COMPANY (FPM&L) AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. PROVIDE 3PH/100A METER BASE PER UTILITY COMPANY REQUIREMENTS.
4. PROVIDE C.T. CABINET AND METER BASE PER UTILITY COMPANY REQUIREMENTS.
5. PROVIDE GROUNDING PER REQUIREMENTS OF UTILITY COMPANY AND LOCAL A.H.J.
6. LABEL "MAIN SERVICE DISCONNECT".
7. PROVIDE SURGE PROTECTIVE DEVICE (SQ. D. "HWA" SERIES OR APPROVED SUBSTITUTION). MINIMUM 100KA SURGE CURRENT RATING.
8. PROVIDE EXTERNAL INTERSYSTEM BONDING TERMINATION (PER NEC 250.94) WITH MIN. #2 COPPER GROUND CONDUCTOR CONNECTION TO EQUIPMENT GROUNDING BUS IN METER CENTER. THE INTERSYSTEM BONDING TERMINATION SHALL HAVE A MIN. OF THREE TERMINATION POINTS.
9. REFER TO WIRING DETAILS/SCHEMATIC ON DRAWING E6.01.
10. PROVIDE PHOTOCELL FOR CONTROL OF BUILDING EXTERIOR LIGHTS. MOUNT ON BUILDING EXTERIOR 9'-0" A.F.G. AIM NORTH.
11. TO POOL EQUIPMENT PANEL. COORDINATE/VERIFY EXACT POWER REQUIREMENTS AND LOCATION OF POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
12. #2/0 COPPER GROUND CONDUCTOR.
13. GROUNDING ELECTRODE CONDUCTOR TO (2) 5/8"x20'-0" COPPERCLAD GROUND RODS MINIMUM 20'-0" APART.
14. PROVIDE CONCRETE ENCASED ELECTRODE (ENCASE 1")#2/0 CU BARE CONDUCTOR IN CONCRETE FOOTER. MINIMUM 20'-0" OF CONDUCTOR WITH AT LEAST 2" OF CONCRETE COVER). BOND TO REBAR WHERE APPLICABLE.
15. #6 CU GROUND CONDUCTOR.
16. PROVIDE PERMANENT LABELING TO INDICATE MAXIMUM AVAILABLE FAULT CURRENT PER NEC 110.24.
17. PROVIDE SURGE PROTECTIVE DEVICE (SQ. D. "SDSA3650" OR APPROVED SUBSTITUTION).
18. 1-1/2" GLAV. RIGID CONDUIT WITH BUSHINGS AND PULLSTRING.

1. COORDINATE ALL WORK  
(FP&L) PRIOR TO COM

2. PROVIDE PERMANENT LABELING FOR EACH PANELBOARD SUPPLIED BY FEEDERS TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER NEC 408.4(B).

## ISSUE HISTORY

## REVISION HISTORY

No.	Date	Description
1	05/06/20	PERMIT COMMENT RESPONSES

[illegible]

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595  
www.fuglebergkoch.com BR569



CERT. OF AUTH. NO. 6106

■ GARY A. WILKERSON, P.E., 43167  
■ NICOLE J. CARTIER, D.E., 43203

■ ADAM S. LEVINE, P.E. 77010

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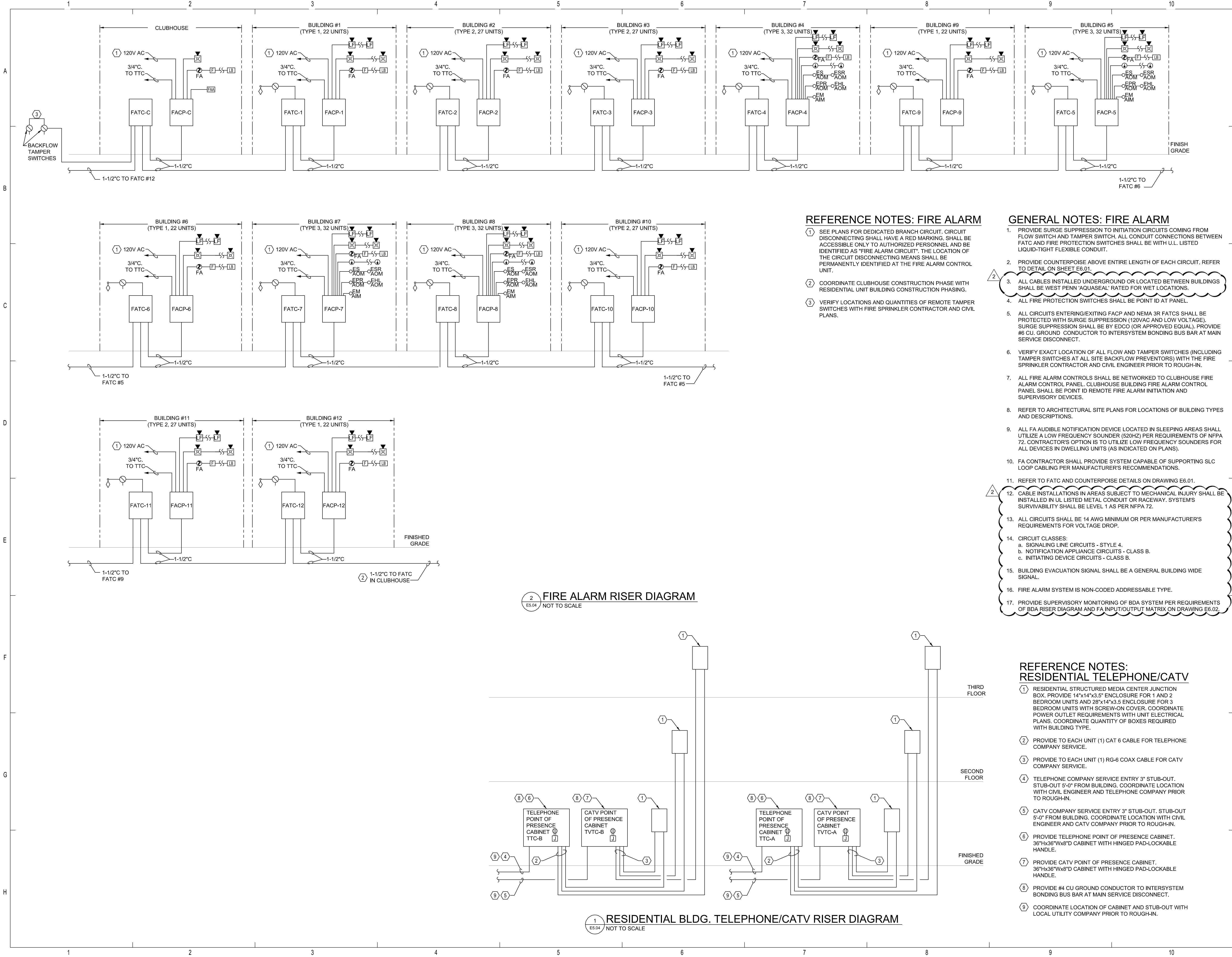
FT. MYERS, FL

Drawn:	SWC
Checked:	GPM
Approved:	ASL
Date:	09/10/2019
Project #:	5592

## POWER RISER DIAGRAMS - ELECTRICAL

## E5.03





REFERENCE NOTES: FIRE ALARM

- 1. SEE PLANS FOR DEDICATED BRANCH CIRCUIT. CIRCUIT DISCONNECTING SHALL HAVE A RED MARKING. SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- 2. COORDINATE CLUBHOUSE CONSTRUCTION PHASE WITH RESIDENTIAL UNIT BUILDING CONSTRUCTION PHASING.
- 3. VERIFY LOCATIONS AND QUANTITIES OF REMOTE TAMPER SWITCHES WITH FIRE SPRINKLER CONTRACTOR AND CIVIL PLANS.

GENERAL NOTES: FIRE ALARM

- 1. PROVIDE SURGE SUPPRESSION TO INITIATION CIRCUITS COMING FROM FLOW SWITCH AND TAMPER SWITCH. ALL CONDUIT CONNECTIONS BETWEEN FATC AND FIRE PROTECTION SWITCHES SHALL BE WITH U.L. LISTED LIQUID-TIGHT FLEXIBLE CONDUIT.
- 2. PROVIDE COUNTERPOISE ABOVE ENTIRE LENGTH OF EACH CIRCUIT. REFER TO DETAIL ON SHEET E6.01.
- 3. ALL CABLES INSTALLED UNDERGROUND OR LOCATED BETWEEN BUILDINGS SHALL BE WEST PENN "AQUASEAL" RATED FOR WET LOCATIONS.
- 4. ALL FIRE PROTECTION SWITCHES SHALL BE POINT ID AT PANEL.
- 5. ALL CIRCUITS ENTERING/EXITING FACP AND NEMA 3R FATCS SHALL BE PROTECTED WITH SURGE SUPPRESSION (120VAC AND LOW VOLTAGE). SURGE SUPPRESSION SHALL BE BY EDCO (OR APPROVED EQUAL). PROVIDE #6 CU GROUND CONDUCTOR TO INTERSYSTEM BONDING BUS BAR AT MAIN SERVICE DISCONNECT.
- 6. VERIFY EXACT LOCATION OF ALL FLOW AND TAMPER SWITCHES (INCLUDING TAMPER SWITCHES AT ALL SITE BACKFLOW PREVENTORS) WITH THE FIRE SPRINKLER CONTRACTOR AND CIVIL ENGINEER PRIOR TO ROUGH-IN.
- 7. ALL FIRE ALARM CONTROLS SHALL BE NETWORKED TO CLUBHOUSE FIRE ALARM CONTROL PANEL. CLUBHOUSE BUILDING FIRE ALARM CONTROL PANEL SHALL BE POINT ID REMOTE FIRE ALARM INITIATION AND SUPERVISORY DEVICES.
- 8. REFER TO ARCHITECTURAL SITE PLANS FOR LOCATIONS OF BUILDING TYPES AND DESCRIPTIONS.
- 9. ALL FA AUDIBLE NOTIFICATION DEVICE LOCATED IN SLEEPING AREAS SHALL UTILIZE A LOW FREQUENCY SOUNDER (520HZ) PER REQUIREMENTS OF NFPA 72. CONTRACTOR'S OPTION IS TO UTILIZE LOW FREQUENCY SOUNDERS FOR ALL DEVICES IN DWELLING UNITS (AS INDICATED ON PLANS).
- 10. FA CONTRACTOR SHALL PROVIDE SYSTEM CAPABLE OF SUPPORTING SLC LOOP CABLING PER MANUFACTURER'S RECOMMENDATIONS.
- 11. REFER TO FATC AND COUNTERPOISE DETAILS ON DRAWING E6.01.
- 12. CABLE INSTALLATIONS IN AREAS SUBJECT TO MECHANICAL INJURY SHALL BE INSTALLED IN UL LISTED METAL CONDUIT OR RACEWAY. SYSTEM'S SURVIVABILITY SHALL BE LEVEL 1 AS PER NFPA 72.
- 13. ALL CIRCUITS SHALL BE 14 AWG MINIMUM OR PER MANUFACTURER'S REQUIREMENTS FOR VOLTAGE DROP.
- 14. CIRCUIT CLASSES:
  - a. SIGNALING LINE CIRCUITS - STYLE 4.
  - b. NOTIFICATION APPLIANCE CIRCUITS - CLASS B.
  - c. INITIATING DEVICE CIRCUITS - CLASS B.
- 15. BUILDING EVACUATION SIGNAL SHALL BE A GENERAL BUILDING WIDE SIGNAL.
- 16. FIRE ALARM SYSTEM IS NON-CODED ADDRESSABLE TYPE.
- 17. PROVIDE SUPERVISORY MONITORING OF BDA SYSTEM PER REQUIREMENTS OF BDA RISER DIAGRAM AND FA INPUT/OUTPUT MATRIX ON DRAWING E6.02.

2 FIRE ALARM RISER DIAGRAM  
E5.04 NOT TO SCALE

REFERENCE NOTES: RESIDENTIAL TELEPHONE/CATV

- 1. RESIDENTIAL STRUCTURED MEDIA CENTER JUNCTION BOX. PROVIDE 14"x14"x3.5" ENCLOSURE FOR 1 AND 2 BEDROOM UNITS AND 28"x14"x3.5 ENCLOSURE FOR 3 BEDROOM UNITS WITH SCREW-ON COVER. COORDINATE POWER OUTLET REQUIREMENTS WITH UNIT ELECTRICAL PLANS. COORDINATE QUANTITY OF BOXES REQUIRED WITH BUILDING TYPE.
- 2. PROVIDE TO EACH UNIT (1) CAT 6 CABLE FOR TELEPHONE COMPANY SERVICE.
- 3. PROVIDE TO EACH UNIT (1) RG-6 COAX CABLE FOR CATV COMPANY SERVICE.
- 4. TELEPHONE COMPANY SERVICE ENTRY 3" STUB-OUT. STUB-OUT 5'-0" FROM BUILDING. COORDINATE LOCATION WITH CIVIL ENGINEER AND TELEPHONE COMPANY PRIOR TO ROUGH-IN.
- 5. CATV COMPANY SERVICE ENTRY 3" STUB-OUT. STUB-OUT 5'-0" FROM BUILDING. COORDINATE LOCATION WITH CIVIL ENGINEER AND CATV COMPANY PRIOR TO ROUGH-IN.
- 6. PROVIDE TELEPHONE POINT OF PRESENCE CABINET. 36"Hx36"Wx8"D CABINET WITH HINGED PAD-LOCKABLE HANDLE.
- 7. PROVIDE CATV POINT OF PRESENCE CABINET. 36"Hx36"Wx8"D CABINET WITH HINGED PAD-LOCKABLE HANDLE.
- 8. PROVIDE #4 CU GROUND CONDUCTOR TO INTERSYSTEM BONDING BUS BAR AT MAIN SERVICE DISCONNECT.
- 9. COORDINATE LOCATION OF CABINET AND STUB-OUT WITH LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN.

1 RESIDENTIAL BLDG. TELEPHONE/CATV RISER DIAGRAM  
E5.04 NOT TO SCALE

CITY OF FORT MYERS  
THIS PLAN REVIEWED FOR SUBSTANTIAL CODE COMPLIANCE WITH ALL APPLICABLE CODES.  
DATE APPROVED: 06/17/20  
PERMIT NUMBER: BL2020-00848  
PROPERTY ADDRESS: 3815 OLD BERRY POINT  
JOB DESCRIPTION: New construction of a 3 story apartment building that includes 77 units of 1, 2 and 3 bedroom units and 6 direct entry direct entry garage units. The building provides.

ISSUE HISTORY		
No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY		
No.	Date	Description
2	06/03/20	PERMIT COMMENT RESPONSES

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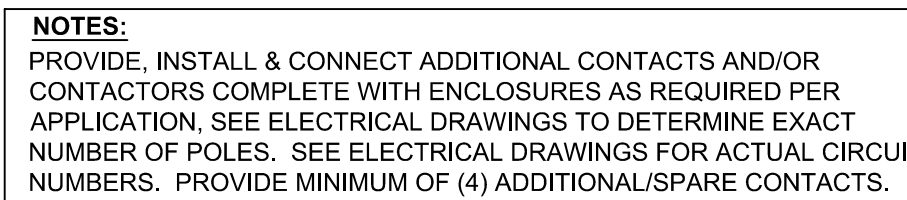
CONSULTANT  
SALAS O'BRIEN  
281 Quailgrove Boulevard, Suite 100  
Ocala, Florida 33477  
(352) 237-1779  
CERT. OF AUTH. NO. 4106  
DARYL A. WALKERSON, P.E. 43167  
DEVILLE J. CARTER, P.E. 32589  
JESSE A. KERNAN, P.E. 60619  
MICHAEL S. COVINE, P.E. 17719  
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THE ROBERT  
FT. MYERS, FL  
SYSTEM RISER DIAGRAMS - ELECTRICAL  
E5.04  
Drawn: SWC  
Checked: GPM  
Approved: ASL  
Date: 08/10/2019  
Project #: 5592  
PLOTED: 04/2/2020 11:45:13 AM





- (1) TELEPHONE COMPANY ENTRY 3" CONDUIT STUB-OUT. STUB-OUT 5'-0" FROM BUILDING. COORDINATE LOCATION WITH CIVIL ENGINEER AND TELEPHONE COMPANY PRIOR TO ROUGH-IN.
- (2) CATV COMPANY SERVICE ENTRY 3" CONDUIT STUB-OUT. STUB-OUT 5'0" FROM BUILDING. COORDINATE LOCATION WITH CIVIL ENGINEER AND CATV COMPANY PRIOR TO ROUGH-IN.
- (3) PROVIDE TELEPHONE POINT OF PRESENCE CABINET. 24"x18"x6" CABINET WITH HINGED PAD-LOCKABLE HANDLE.
- (4) PROVIDE CATV POINT OF PRESENCE CABINET 24"x18"x6" CABINET WITH HINGED PAD-LOCKABLE HANDLE.
- (5) PROVIDE #4 CU GROUND CONDUCTOR TO INTERSYSTEM BONDING BUS BAR AT MAIN SERVICE DISCONNECT.
- (6) PROVIDE (2) CAT 5e CABLES TO EACH COMMUNICATION OUTLET.
- (7) PROVIDE (1) RG-6 COAX CABLE AND (1) CAT. 5e CABLE FOR EACH TELEVISION OUTLET.
- (8) PROVIDE 2" CONDUIT NIPPLE.
- (9) COORDINATE ALL WORK WITH LOCAL TELEPHONE/CATV COMPANY.



4" YELLOW DETECTABLE WARNING TAPE

18"

12"

GRADE

24" MIN

#3 CU COUNTERPOISE RUN 6" ABOVE CONDUIT CONTINUOUS FROM BUILDING TO BUILDING. BOND ALL PULLBOX AND GROUND BARS. PROVIDE 5/8"x20" COPPERCLAD GROUND ROD BONDED TO COUNTERPOISE EVERY 150'. BOND COUNTERPOISE TO MAIN GROUND AT PANEL OF EACH BUILDING.

GROUND ROD

NOTE:  
TYPICAL CONDUIT CONFIGURATION SHOWN, REFER TO ELECTRICAL SITE PLAN ON DRAWING E1.01 FOR SITE LAYOUT.

FIRE PROTECTION MONITORING CONDUIT

The diagram illustrates the counterpoise detail for a fire alarm system. A dashed box at the top represents the 'NEMA 12"x10"x6" ENCLOSURE WITH SCREW ON COVER'. Two vertical conduits, labeled '1-1/2" SCH. 40 PVC CONDUIT', extend downwards. One conduit contains a '(1) #4 BARE COPPER GROUNDING CONDUCTOR IN 1" SCH 40 PVC'. The other conduit contains a 'CONDUIT SUPPORT, TYP.'. Both conduits pass through a horizontal line representing 'FINISH GRADE'. A dimension of '24"' is shown for the depth of the counterpoise. Below the grade, the conduits are connected to a '5/8"x20"-0" DRIVEN GROUNDING ELECTRODE PER SPECIFICATIONS'. The grounding conductor is then labeled 'EXTEND/CONNECT GROUNDING CONDUCTOR TO MAIN ELECTRICAL SERVICE GROUNDING SYSTEM.'.

**NOTES:**  
 REFER TO TYPICAL FIRE ALARM  
 COUNTERPOISE DETAIL, THIS SHEET.

**HALLWAY 67**

Diagram showing a series of occupancy sensors (nCM PDT10) connected to a switching pack (nPP16) with terminals L, N, and D#.

**MAIL KIOSK 72**

Diagram showing a series of occupancy sensors (nCM PDT10) connected to a switching pack (nPP16) with terminals L, N, and D#.

**MEDIA ROOM 69**

Diagram showing a series of vacancy sensors (nCM PDT10) connected to a switching pack (nPP16 D SA) with terminals L, N, and D#.

**ASSISTANT MANAGER 59, MANAGER 60, RECEPTION 61**

Diagram showing a series of vacancy sensors (nCM PDT10) connected to a switching pack (nPP20 PL) with terminals L, N, and D#.

**Diagram 1:** ON/OFF SWITCH nPODM, VACANCY SENSOR nCM PDT10 (IF REQUIRED), VACANCY SENSOR nCM PDT10, SWITCHING PACK nPP16, SWITCHING PACK nPP20 PL.

**Diagram 2:** 4 BUTTON / 2 SCENE CONTROL SWITCH (a,b) nPODM-2SB, VACANCY SENSOR nCM PDT 10, VACANCY SENSOR nCM PDT 10, SWITCHING PACK nPP16 ("a"), SWITCHING PACK nPP16 ("b").

4 LIGHTING CONTROL WIRING DETAILS  
E6.01 NOT TO SCALE

ISSUE HISTORY		
No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

[illegible]

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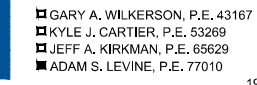
FT. MYERS, FL	Project #:
DETAILS - ELECTRICAL	

## E6.01



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CONSULTANT



## E6.02

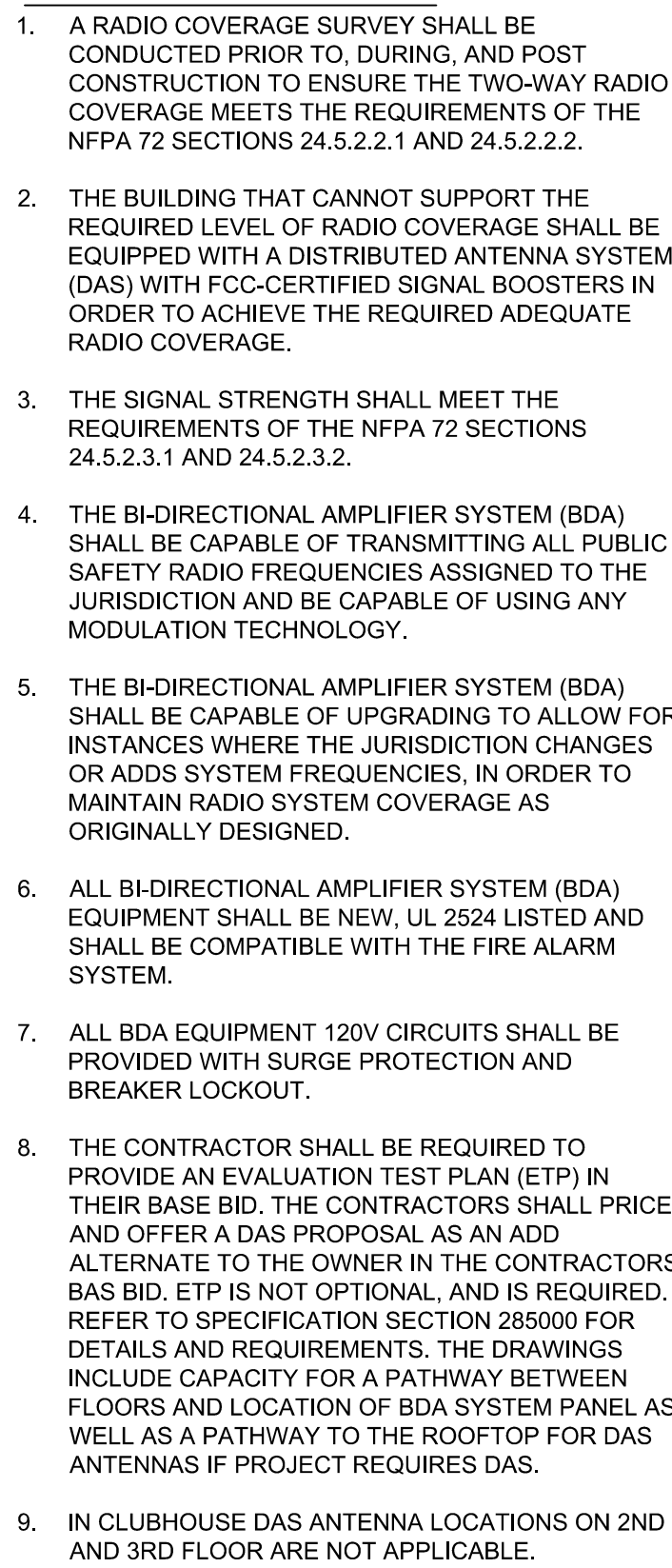
Drawn:	SWC
Checked:	GPM
Approved:	ASL
Date:	09/10/2019
Project #:	5592

## APPLICABLE CODES

Florida Building Code 6th Edition (2017)  
Florida Building Code Accessibility 6th Edition (2017)  
National Electrical Code (2014)  
Florida Mechanical Code 6th Edition (2017)  
Florida Fire Prevention Code (Latest Adopted Edition)  
NFPA 101 Life Safety Code (Latest Adopted Edition) with Florida Amendments  
NFPA 1 Uniform Fire Code (Latest Adopted Edition) with Florida Amendments  
Florida Statutes Florida Administrative Codes

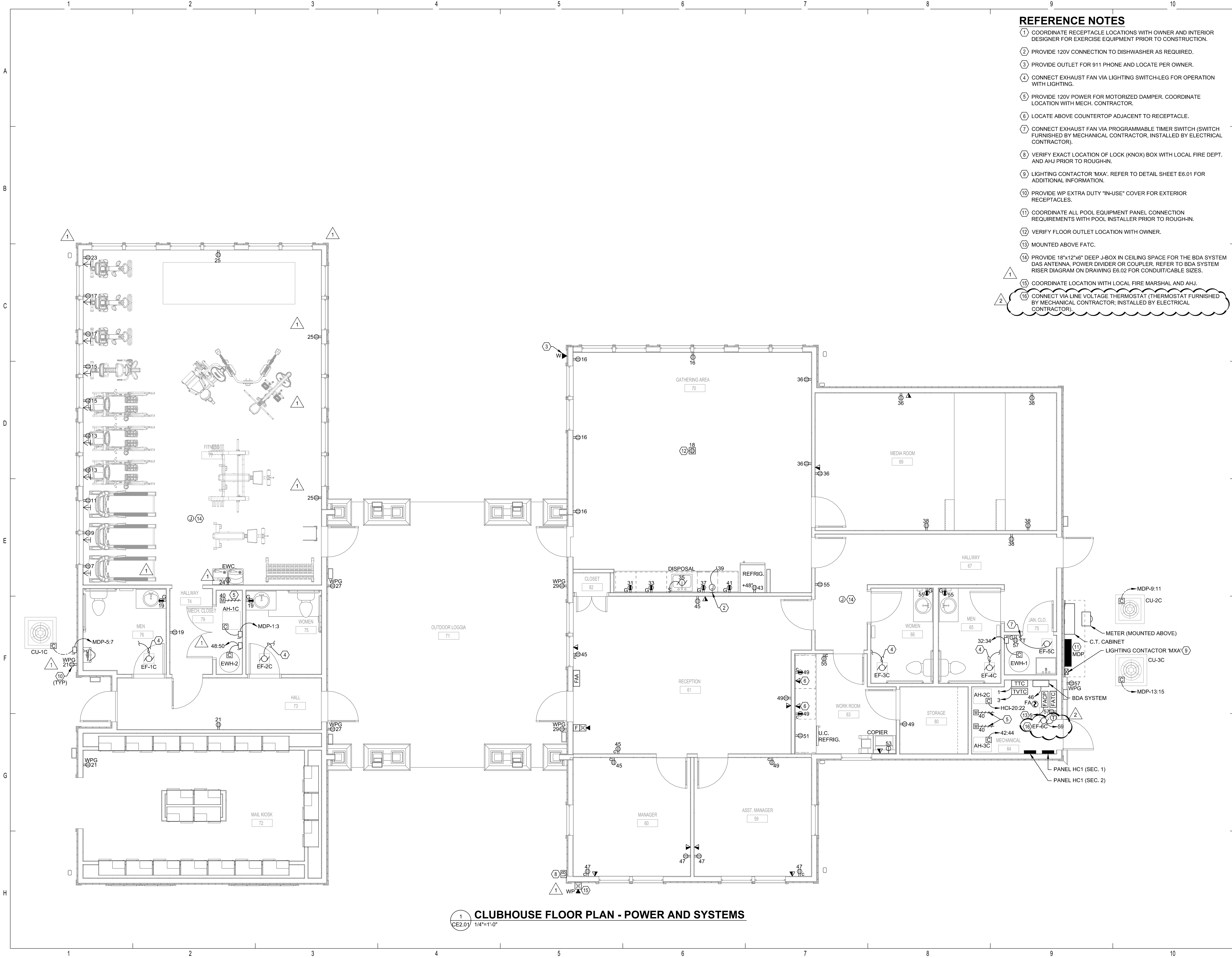
## 2 FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

E6.02 NOT TO SCALE



- ① 120 VAC DEDICATED CIRCUIT. REFER TO LOCAL BUILDING HOUSE PANEL OR BRANCH PANEL (CLUBHOUSE).
- ② DONOR ANTENNA, FACING DIRECTION AS REQUIRED PER RADIO COVERAGE SURVEY.
- ③ PROVIDE CONNECTION TO THE LOCAL FIRE ALARM PANEL. PROVIDE 5 SUPERVISORY MODULES FOR THE BDA ANTENNA FAILURE, BDA TROUBLE, BDA POWER LOSS, BDA CHARGER TROUBLE AND BDA LOW BATTERY.
- ④ BDA STATUS ANNUNCIATOR, MOUNT IN A STANDARD 4" 2-GANG JUNCTION BOX.
- ⑤ 8 #18 AWG CABLE IN 1" C.
- ⑥ BDA SYSTEM AND BATTERY BACKUP. REFER TO SYMBOL LEGEND FOR MANUFACTURER'S PART NUMBER.
- ⑦ 1/2" CABLE, RED JACKET, IMPRINTED 1/2" CORRUGATED ALUM PLENUM AIR DIELECTRIC, 50 OHM COAXIAL CABLE IN 1-1/2" C.
- ⑧ DIRECTIONAL COUPLER, REFER TO SYMBOL LEGEND FOR MANUFACTURER'S PART NUMBER.
- ⑨ DAS ANTENNAS, REFER TO SYMBOL LEGEND FOR MANUFACTURER'S PART NUMBER.
- ⑩ POWER DIVIDER, REFER TO SYMBOL LEGEND FOR MANUFACTURER'S PART NUMBER.
- ⑪ #6 CU GROUND CONDUCTOR TO INTERSYSTEM BONDING BUS BAR.
- ⑫ FURNISH AND INSTALL PROTECTIVE WRAP FOR ROOFTOP ANTENNA RISER CONDUIT IN ORDER TO PROVIDE A 2 HOUR FIRE RATING. PROVIDE ADDITIONAL CONDUIT SUPPORT AS REQUIRED FOR INSTALLATION OF PROTECTIVE WRAP. AS AN OPTION A 2 HOUR RATED COAXIAL CABLE MAY BE UTILIZED.





REFERENCE NOTES

- 1. COORDINATE RECEPTACLE LOCATIONS WITH OWNER AND INTERIOR DESIGNER FOR EXERCISE EQUIPMENT PRIOR TO CONSTRUCTION.
- 2. PROVIDE 120V CONNECTION TO DISHWASHER AS REQUIRED.
- 3. PROVIDE OUTLET FOR 911 PHONE AND LOCATE PER OWNER.
- 4. CONNECT EXHAUST FAN VIA LIGHTING SWITCH-LEG FOR OPERATION WITH LIGHTING.
- 5. PROVIDE 120V POWER FOR MOTORIZED DAMPER. COORDINATE LOCATION WITH MECH. CONTRACTOR.
- 6. LOCATE ABOVE COUNTERTOP ADJACENT TO RECEPTACLE.
- 7. CONNECT EXHAUST FAN VIA PROGRAMMABLE TIMER SWITCH (SWITCH FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR).
- 8. VERIFY EXACT LOCATION OF LOCK (KNOX) BOX WITH LOCAL FIRE DEPT. AND AHJ PRIOR TO ROUGH-IN.
- 9. LIGHTING CONTACTOR 'MXA'. REFER TO DETAIL SHEET E6.01 FOR ADDITIONAL INFORMATION.
- 10. PROVIDE WP EXTRA DUTY "IN-USE" COVER FOR EXTERIOR RECEPTACLES.
- 11. COORDINATE ALL POOL EQUIPMENT PANEL CONNECTION REQUIREMENTS WITH POOL INSTALLER PRIOR TO ROUGH-IN.
- 12. VERIFY FLOOR OUTLET LOCATION WITH OWNER.
- 13. MOUNTED ABOVE FATC.
- 14. PROVIDE 18"x12"x6" DEEP J-BOX IN CEILING SPACE FOR THE BDA SYSTEM DAS ANTENNA, POWER DIVIDER OR COUPLER, REFER TO BDA SYSTEM RISER DIAGRAM ON DRAWING E6.02 FOR CONDUIT/CABLE SIZES.
- 15. COORDINATE LOCATION WITH LOCAL FIRE MARSHAL AND AHJ.
- 16. CONNECT VIA LINE VOLTAGE THERMOSTAT (THERMOSTAT FURNISHED BY MECHANICAL CONTRACTOR; INSTALLED BY ELECTRICAL CONTRACTOR).

GENERAL NOTES

- 1. ALL 120/240V CIRCUITS FROM PANEL 'HC1' (UNL)
- 2. VERIFY EXACT LOCATION OF EQUIPMENT WITH RESPECTIVE VENDOR AND 6 DIRECT ENTRY DIRECT ENTRY CONTRACTOR PRIOR TO ROUGH-IN.
- 3. REFER TO EQUIPMENT FEEDER SCHEDULE ON SHEET E4.04 FOR ALL MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.
- 4. FURNISH AND INSTALL COMPLETE LIGHTNING PROTECTION SYSTEM PER NFPA 780 AND U.L. REFER TO SPECIFICATIONS.

ISSUE HISTORY

No.	Date	Description
1	11/22/19	SCHEMATIC DESIGN
2	12/06/19	DESIGN DEVELOPMENT
3	02/28/20	PERMIT REVIEW SET

REVISION HISTORY

No.	Date	Description
1	05/06/20	PERMIT COMMENT RESPONSES
2	06/03/20	PERMIT COMMENT RESPONSES

**FUGLEBERG KOCH**  
PLLC  
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595  
www.fuglebergkoch.com

**SALAS O'BRIEN**  
CONSULTANT  
2801 Quailgate Boulevard, Suite 100  
Orlando, Florida 32817  
(407) 499-1999  
CERT. OF AUTH. NO. 4106

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY ADAM S. LEVINE PER ON DATE 08/10/2019.  
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**THE ROBERT**  
FT. MYERS, FL

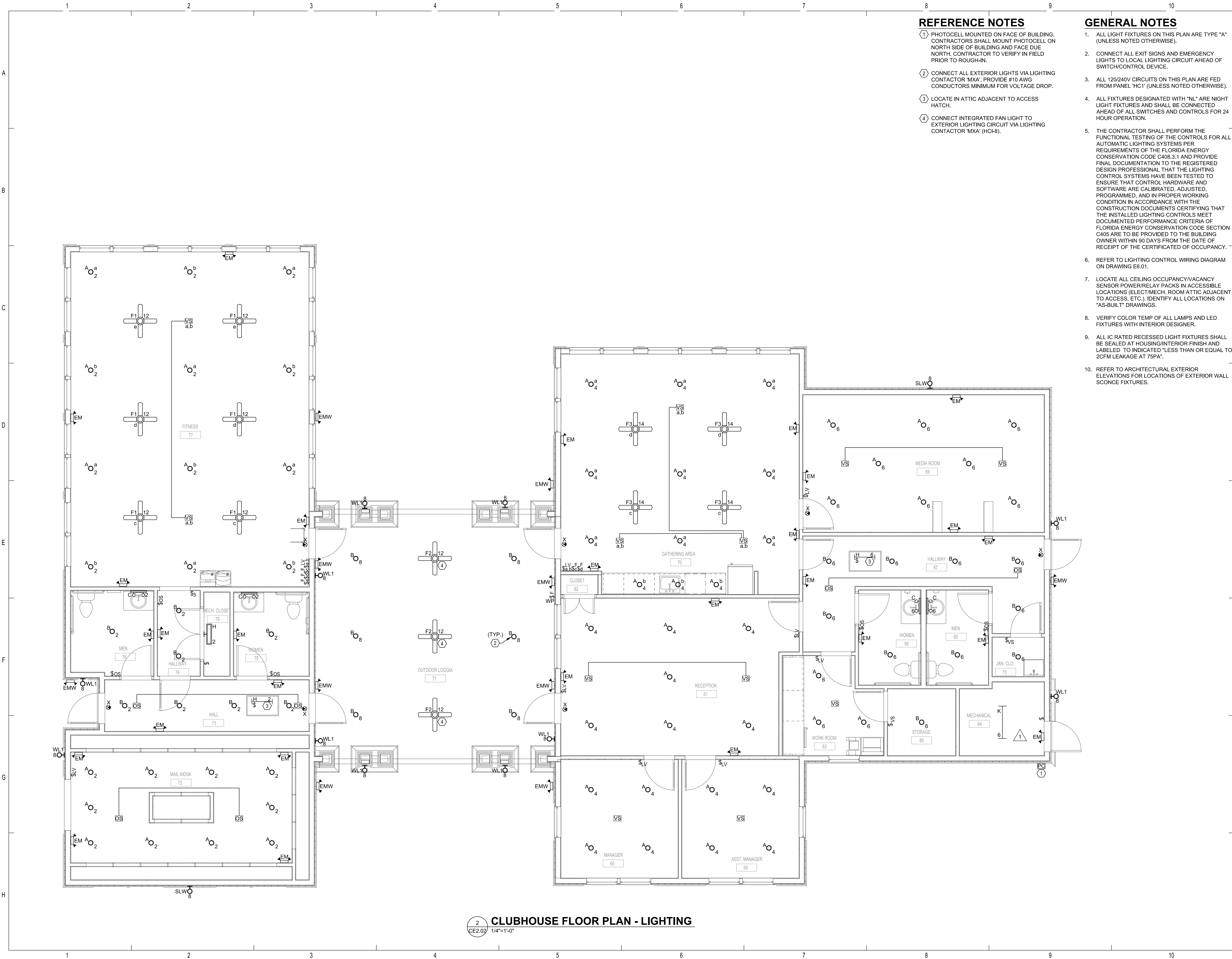
Drawn:	SWC
Checked:	GPM
Approval:	ASL
Date:	08/10/2019
Project #:	5592

**CLUBHOUSE FLOOR PLAN - POWER AND SYSTEMS**

**CE2.01**

1 CLUBHOUSE FLOOR PLAN - POWER AND SYSTEMS  
CE2.01 1/4"=1'-0"





### REFERENCE NOTES

- PHOTOCELL MOUNTED ON FACE OF BUILDING. CONTRACTORS SHALL MOUNT PHOTOCELL ON NORTH SIDE OF BUILDING AND FACE DUE NORTH. CONTRACTOR TO VERIFY IN FIELD PRIOR TO ROUGH-IN.
- CONNECT ALL EXTERIOR LIGHTS VIA LIGHTING CONTACTOR 'MXA'. PROVIDE #10 AWG CONDUCTORS MINIMUM FOR VOLTAGE DROP.
- LOCATE IN ATTIC ADJACENT TO ACCESS HATCH.
- CONNECT INTEGRATED FAN LIGHT TO EXTERIOR LIGHTING CIRCUIT VIA LIGHTING CONTACTOR 'MXA' (HCL-8).

### GENERAL NOTES

- ALL LIGHT FIXTURES ON THIS PLAN ARE TYPE "A" (UNLESS NOTED OTHERWISE).
- CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCH/CONTROL DEVICE.
- ALL 120/240V CIRCUITS ON THIS PLAN ARE FED FROM PANEL 'HC1' (UNLESS NOTED OTHERWISE).
- ALL FIXTURES DESIGNATED WITH "NL" ARE NIGHT LIGHT FIXTURES AND SHALL BE CONNECTED AHEAD OF ALL SWITCHES AND CONTROLS FOR 24 HOUR OPERATION.
- THE CONTRACTOR SHALL PERFORM THE FUNCTIONAL TESTING OF THE CONTROLS FOR ALL AUTOMATIC LIGHTING SYSTEMS PER REQUIREMENTS OF THE FLORIDA ENERGY CONSERVATION CODE C408.3.1 AND PROVIDE FINAL DOCUMENTATION TO THE REGISTERED DESIGN PROFESSIONAL THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA OF FLORIDA ENERGY CONSERVATION CODE SECTION C405 ARE TO BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
- REFER TO LIGHTING CONTROL WIRING DIAGRAM ON DRAWING E6.01.
- LOCATE ALL CEILING OCCUPANCY/VACANCY SENSOR POWER/RELAY PACKS IN ACCESSIBLE LOCATIONS (ELECT/MECH. ROOM ATTIC ADJACENT TO ACCESS, ETC.). IDENTIFY ALL LOCATIONS ON "AS-BUILT" DRAWINGS.
- VERIFY COLOR TEMP OF ALL LAMPS AND LED FIXTURES WITH INTERIOR DESIGNER.
- ALL IC RATED RECESSED LIGHT FIXTURES SHALL BE SEALED AT HOUSING/INTERIOR FINISH AND LABELED TO INDICATE "LESS THAN OR EQUAL TO 2CFM LEAKAGE AT 75PA".
- REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR LOCATIONS OF EXTERIOR WALL SCONCE FIXTURES.



PERMIT REVIEW STAMP

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REVISION HISTORY		
No.	Date	Description
1	05/06/20	PERMIT COMMENT RESPONSES

CONSULTANT  
**SALAS O'BRIEN**  
2011 Quail Creek Road, Suite 100  
Ocala, Florida 34677  
CERT. OF AUTH. NO. 4106

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**FUGLEBERG KOCH**  
PLLC  
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595  
www.fuglebergkoch.com BR569



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CLUBHOUSE FLOOR PLAN -  
LIGHTING

CE2.02

2 CLUBHOUSE FLOOR PLAN - LIGHTING  
CE2.02 1/4"=1'-0"