

MASTER ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS; REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.

LIGHTING

NOTE: UPPER CASE LETTER INDICATES FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE AND DRAWINGS. LOWER CASE LETTER INDICATES SWITCH CIRCUIT. (EM) DENOTES FIXTURE WITH BATTERY BACKST.

- 2X2 LUMINAIRE - CEILING MOUNTED
RECESSED LINEAR LUMINAIRE - CEILING MOUNTED
RECESSED LINEAR LUMINAIRE - CEILING MOUNTED, EMERGENCY POWER
INDUSTRIAL STRIP FIXTURE
INDUSTRIAL STRIP FIXTURE - EMERGENCY POWER (INTEGRAL BATTERY)
LINEAR FIXTURE - WALL MOUNTED
LINEAR FIXTURE - WALL MOUNTED, EMERGENCY POWER
DOWNLIGHT LUMINAIRE - RECESSED
DOWNLIGHT FIXTURE - RECESSED, EMERGENCY POWER (INTEGRAL BATTERY PACK)
DOWNLIGHT LUMINAIRE - SURFACE MOUNTED
DOWNLIGHT LUMINAIRE - SURFACE MOUNTED, EMERGENCY POWER (INTEGRAL BATTERY PACK)
WALL WASH LUMINAIRE - RECESSED
WALL MOUNTED LUMINAIRE
WALL MOUNTED LUMINAIRE, EMERGENCY POWER (INTEGRAL BATTERY PACK)
FIXTURE - PENDANT MOUNTED
BEAUTY BAR
CEILING FAN
UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
WALL MOUNTED EXIT LIGHTS, SINGLE FACED
END MOUNTED EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS

SWITCHES

- LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
(3) WAY
(4) WAY
(CS) CEILING FAN LIGHT CONTROL
(K) KEY OPERATED
(P) PILET LIGHT INDICATION
(T) SINGLE PHASE MOTOR STARTING SWITCH
(OS) OCCUPANCY SENSOR
(VS) VACANCY SENSOR
(WP) WEATHER PROOF

- WALL OR CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE WITH POWER PACKS. SENSOR SHALL CONTAIN AN AUXILIARY RELAY FOR HVAC CONTROLS EMS INTERFACE. LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED.
WALL OR CEILING MOUNTED VACANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE WITH POWER PACKS. SENSOR SHALL CONTAIN AN AUXILIARY RELAY FOR HVAC CONTROLS EMS INTERFACE. LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED.

POWER PACK

PHOTOCELL

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
CONDUIT CONCEALED UNDERGROUND OR IN SLAB
CONDUIT CONCEALED UNDERGROUND OR IN SLAB
CONDUIT HOMERUN
CONDUIT EXPOSED ON WALLS OR CEILINGS
EXISTING CONDUIT
CONDUIT TURNED UP OR DOWN IN WALL
UTILITY COMPANY CONDUIT
POWER CONDUIT

RECEPTACLES

- ALL RECEPTACLES SHALL BE RATED 120V, 20A, 1/2 N.C.
ALL 120V, 20A RECEPTACLES LOCATED IN DAMP AND/OR WET LOCATIONS SHALL BE LISTED "WEATHER-RESISTANT" (TYPE WR)
DUPLEX RECEPTACLE
DUPLEX RECEPTACLE MOUNT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER
QUADRUPLEX RECEPTACLE IN TWO GANG BOX COVER
QUADRUPLEX RECEPTACLE MOUNT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER
DUPLEX RECEPTACLE TOP HALF SWITCHED
DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
SIMPLEX RECEPTACLE
SIMPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
DUPLEX RECEPTACLE SPLIT WIRED
(D) DUPLEX GFCI RECEPTACLE
(EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER, LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER
(WP) DUPLEX GFCI WEATHER-RESISTANT RECEPTACLE WITH WHALE-IN-SUE WEATHERPROOF COVER
(SS) RECEPTACLE 2-POWER, 2 USB
SPECIAL OUTLET, SUBSCRIPT INDICATES NEMA CONFIGURATION NUMBER

FLOOR BOX

- FLOOR BOX
SUBSCRIPT "X" DENOTES TYPE. SEE TYPE DESCRIPTION AND REQUIREMENTS ON FLOOR PLAN.
PROVIDE POWER RECEPTACLES (DUPLEX/QUAD) AND POWER CONNECTIONS AS SHOWN ON DRAWINGS. MINIMUM 3/4" FOR POWER. PROVIDE 1" CONDUIT FOR COMMUNICATION OUTLET AND 7" CONDUIT FOR AIR OUTLET. PROVIDE ALL OUTLETS AS SHOWN ON FLOOR PLANS. SEE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS FOR CONDUIT AND DATA/AUDIO VISUAL DEVICES. PROVIDE ALL REQUIRED BOX ACCESSORIES FOR COMPLETE AND FUNCTIONAL INSTALLATION. COORDINATE FLOOR TYPES WITH CONSTRUCTION MANAGER. COORDINATE COVER AND FINISH WITH ARCHITECT. COMPLY WITH MANUFACTURERS INSTALLATION REQUIREMENTS. PROVIDE CORROSION/MOISTURE RESISTANT COATING FOR BOXES INSTALLED IN SLAB ON GRADE.

POWER CONNECTIONS

- JUNCTION BOX SIZED PER N.E.C. UNLESS NOTED
(2D) HVAC EQUIPMENT MOUNTED ABOVE CEILING
(WH) HVAC EQUIPMENT MOUNTED ABOVE CEILING
(VT) HVAC EQUIPMENT MOUNTED ABOVE CEILING
FLOOR JUNCTION BOX
POWER POLE, SEE DETAIL FOR REQUIREMENTS.
WALL MOUNTED PUSH BUTTON STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS.
WALL MOUNTED SHUNT TRIP STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS
DOOR BELL
DOOR BELL CHIME
TIME CLOCK
WALL MOUNTED EMERGENCY POWER OFF STATION MOUNT AT 7'-0" AFG INSTALLATIONS
ELECTRIC WATER HEATER
INSTANTANEOUS WATER HEATER
MOTOR CONNECTION, MARK NUMBER WILL IDENTIFY EQUIPMENT, EF, AHU, CU, ETC. SEE MOTOR CONNECTION SCHEDULE.

- NON FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
ENCLOSURE NEMA RATING
DISCONNECT SIZE #POLES FUSE SIZE
MANUAL MOTOR STARTER

- MAGNETIC STARTER
(MVF) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
COMBINATION MAGNETIC STARTER WITH A CIRCUIT BREAKER
(MVF) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
COMBINATION MAGNETIC STARTER WITH FUSIBLE HEAVY DUTY SAFETY SWITCH
(MVF) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.

- ENCLOSED CIRCUIT BREAKER
AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM
PANELBOARD, LOW VOLTAGE (120/208V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM

- PANELBOARD, HIGH VOLTAGE (277/480V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
DISTRIBUTION PANEL, SEE RISER DIAGRAM
POWER COMPANY METERING.
DRY-TYPE TRANSFORMER, SEE RISER FOR CHARACTERISTICS
SURGE PROTECTION DEVICE

TELEPHONE SYSTEM

- TELEPHONE OUTLET
(C) TELEPHONE OUTLET, BOTTOM IS AT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER.
(W) WALL TELEPHONE OUTLET MOUNT 48" AFF UNLESS NOTED OTHERWISE
TELEPHONE OUTLET IN FLOOR BOX

- TELEPHONE OR POWER HANDHOLE
TELEPHONE SYSTEM RACEWAY/CABLE
TELEPHONE TERMINAL BOARD

SITE

- POWER COMPANY TRANSFORMER - UNLESS NOTED
PARKING LOT OR ROADWAY HD FIXTURE - NORMAL POWER
PARKING LOT OR ROADWAY HD FIXTURE - EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)

- WALKWAY BOLLARD
FLOODLIGHT
GENERATOR - SEE RISER DIAGRAM

TELEVISION SYSTEM

- TELEVISION OUTLET
(C) TELEVISION OUTLET, BOTTOM IS AT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER.

DATA DISTRIBUTION

- DATA OUTLET, FLUSH WALL MTD, 18" AFF UNLESS NOTED OTHERWISE
(H) PROVIDE COVERPLATE WITH NUMBER OF PORTS AS SHOWN.
(C) MOUNT 4" ABOVE COUNTER OR BACKSPLASH
(S) SURFACE WALL MOUNTED 18" AFF
(W) RECESSED WALL MOUNTED 48" AFF
(LAN) LOCAL AREA NETWORK OUTLET
(PDS) PDS DATA OUTLET

- DATA OUTLET, FLUSH IN FLOOR BOX
COMBINATION DATA/TELEPHONE OUTLET, FLUSH WALL MTD, 18" AFF UNLESS NOTED OTHERWISE
(H) PROVIDE COVERPLATE WITH NUMBER OF PORTS AS SHOWN.
(C) MOUNT 4" ABOVE COUNTER OR BACKSPLASH
(S) SURFACE WALL MOUNTED 18" AFF
(W) RECESSED WALL MOUNTED 48" AFF

- COMBINATION DATA/TELEPHONE OUTLET, FLUSH IN FLOOR BOX

GENERAL NOTES

- PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES FOR ELECTRICAL WORK INDICATED ON DRAWINGS.
PROVIDE ALL ADDITIONAL AUXILIARY EQUIPMENT SUCH AS CONDUIT SUPPORT DEVICES, BOXES, CLAMPS, ETC., NOT SPECIFICALLY SHOWN ON THESE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION.
ALL PENETRATIONS IN RATED WALLS SHALL BE SEALED WITH UL LISTED FIRE-STOP SEALANT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND UL ASSEMBLY LISTING. ALL OTHER CONDUIT RUNS FROM EXTERIOR SHALL BE SEALED WITH UL LISTED VAPOR STOP PUTTY.
COORDINATE WITH ALL OTHER TRADES PRIOR TO START OF WORK.
NEW MATERIALS INSTALLED SHALL CONFORM TO NEMA STANDARDS AND SHALL BEAR THE UL LABEL FOR APPLICATION USE.
WHERE NEW CONDUCTORS AND/OR CONDUIT SYSTEM ARE INSTALLED, LENGTH AND ROUTING OF CONDUCTORS AND/OR CONDUIT SYSTEMS SHALL BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
ALL EMPTY CONDUITS SHALL CONTAIN FULL STRING (200LB TEST) ENDS SHALL BE CAPPED WITHOUT GLUE, TO PREVENT INTRUSION OF FOREIGN MATERIALS.
ALL WIRING INSTALLED SHALL BE THINWALL COPPER UNDO.
PROVIDE PROTECTIVE COVERING OVER PANELS AND EQUIPMENT DURING CONSTRUCTION.
EACH BRANCH CIRCUIT SHALL UTILIZE A SEPARATE NEUTRAL CONDUCTOR. MULTI-WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL WIRES SHALL NOT BE USED.
ALL EXPOSED CONDUITS SUBJECT TO PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL TUBE.
ALL WORK, CONDUIT, ETC. SHALL BE PERFORMED/INSTALLED IN A NEAT AND WORKMANLIKE MANNER PER NECA 1 STANDARDS. ALL CONDUIT SHALL BE INSTALLED TIGHT TO BUILDING STRUCTURE AND PARALLEL OR PERPENDICULAR TO STRUCTURAL LINES. ANY DEVIATION OR ANY WORK DEEMED SLOPPY BY THE OWNER, ARCHITECT OR ENGINEER SHALL BE REMOVED AND REPLACED AT NO COST.
EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND NEMA RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.
EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING OR 8' ABOVE THE EQUIPMENT, WHICHEVER IS LOWER, WITH A WIDTH AND DEPTH OF THE PANEL BOARD, SWITCHBOARD, MOTOR STARTER, DISCONNECT SWITCH OR TRANSFORMER MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.26.
COORDINATE ALL FLUSH MOUNTED PANELS WITH HVAC DUCTS AND PIPING TO MAINTAIN EXCLUSIVELY DEDICATED SPACE PER NOTE ABOVE.
WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE RESISTIVE ASSEMBLIES (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
ALL ELECTRICAL BOXES SHALL BE METALLIC.
BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES.
ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY SEALED WITH JOINT COMPOUND OR OTHER APPROVED MATERIAL.
PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE INTEGRITY OF THE FIRE RATING OF THE WALL IS MAINTAINED.
THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAME MEMBERS.
THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8" INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS WHICH REQUIRE ELECTRICAL CONNECTIONS AND ARE NOT PROVIDED UNDER DIVISION 26 ARE SHOWN APPROXIMATE. COORDINATE EXACT LOCATIONS OF EQUIPMENT AND ELECTRICAL CONNECTIONS WITH APPROPRIATE TRADE PRIOR TO ROUGHING IN AND ROUTING CONDUIT.
COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY IN AND DRYWALL CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT INDICATED ON THE PLAN DRAWINGS REQUIRING HARD-WIRE CONNECTIONS.
VERIFY AND COORDINATE POWER AND DATA OUTLETS, AS WELL AS LIGHT FIXTURES WITH MECHANICAL AND OWNER PROVIDED EQUIPMENT.
LIGHT SWITCHES SHALL BE MOUNTED 48" A.F.F. TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
RECEPTACLES SHALL BE MOUNTED 18" A.F.F. TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
CONDUIT RACEWAYS, BOXES, ETC. SHALL BE SPOT PAINTED PRIOR TO LABELING. CONDUITS SHALL BE IDENTIFIED WITH IN 6 INCHES OF THE BOX OR ENCLOSURE. THE ENTIRE BOX AND COVER PLATE SHALL BE PAINTED.
APPLY BANDS 10 FEET ON CENTER ALONG THE RACEWAY SYSTEMS.
X. ALL RECEPTACLES AND JUNCTION BOXES SHALL BE MARKED WITH CIRCUIT AND PANEL LABEL MARKERS.
RECEPTACLES AND OUTLETS NEAR FLOOR LEVEL SHALL BE 18 INCHES OFF THE FINISHED FLOOR ON THE BOTTOM AND 20 INCHES TO THE TOP.
Z. ALL PRODUCTS USED ON THIS PROJECT MUST BE IN COMPLIANCE WITH THE MOST CURRENT APPLICABLE EDITION OF THE FLORIDA BUILDING CODE.
A. THE DOCUMENTS LISTED IN THE INDEX AND SPECIFICATIONS HAVE BEEN PREPARED TO BE IN COMPLIANCE WITH THE VERSION OF THE NATIONAL ELECTRICAL CODE (NFPA-70) AS REQUIRED BY THE FLORIDA BUILDING CODE.

ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and Abbreviation. Includes terms like AMPERES, ABOVE COUNTER, ARC-FAULT CIRCUIT INTERRUPTER, etc.

COMPLIANCE STATEMENT

- PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE FOLLOWING CODES/STANDARDS:
FLORIDA BUILDING CODE 2023, 8TH EDITION
FLORIDA BUILDING CODE 2023 - ENERGY CONSERVATION 8TH EDITION
NFPA 37 - STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES, 2021 EDITION
NFPA 70 - NATIONAL ELECTRICAL CODE, 2020 EDITION
NFPA 72 - NATIONAL FIRE ALARM & SIGNALING CODE, 2019 EDITION
FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023)

DEVICE LABELING REQUIREMENT

USING ADHESIVE BACKED PRINTED TAPE, LABEL ALL RECEPTACLES, SWITCHPLATES AND EQUIPMENT LABEL. LABEL SHALL LIST PANEL DESIGNATION AND CIRCUIT NUMBER. TAPE SHALL BE ATTACHED TO THE FACE OF RECEPTACLE OR EQUIPMENT.

VOLTAGE DROP REQUIREMENT

THIS PROJECT IS DESIGNED FOR A MAXIMUM TOTAL VOLTAGE DROP OF 5% AS PER 2023 FBC ENERGY CONSERVATION C409.5.3.



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957

SCHENKEL SHULTZ logo and contact information: 9510 Corkscrew Palms Circle, Unit 1, Estero, FL 33928, voice (239) 208-4846

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This item has been electronically signed and sealed by Kyriacos Latsios, PE on 01/10/2024 using a Digital Signature.

REVISIONS table with columns: MARK, DESCRIPTION, DATE

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: GFS

GENERAL NOTES & DESIGN CRITERIA - ELECTRICAL

FIRE ALARM SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(WP) DENOTES WEATHERPROTECTED

- FD THERMAL DETECTOR, FIXED - RATE-OF-RISE
- SA SMOKE ALARM - NON SYSTEM, 120V (PROVIDE WITH BATTERY BACK-UP)
- SD SMOKE DETECTOR - PHOTO
(60) DENOTES COMBINATION CARBON MONOXIDE AND SMOKE DETECTOR
- CO CARBON MONOXIDE DETECTOR
- F MANUAL PULL STATION
- M MAGNETIC DOOR RELEASE
- FS FLOW SWITCH (FIRE SPRINKLER)
- TS TAMPER SWITCH (VALVE SUPERVISION)
- RR CONTROL RELAY
- RT REMOTE TEST INDICATOR
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
- ADM ADDRESSABLE OUTPUT MODULE
- AIM ADDRESSABLE INPUT MODULE

- SIGNALING APPLIANCE - HORN (H) DENOTES WITH VISUAL SIGNAL (STROBE) (752D UNLESS NOTED) - MOUNTED 8'0" A.F.F. TO BOTTOM OF STROBE
- SIGNALING APPLIANCE - STROBE (752D UNLESS NOTED) - MOUNTED 8'0" A.F.F. TO BOTTOM OF STROBE
- SIGNALING APPLIANCE - LOW FREQUENCY HORN (520HZ)
- FIRE ALARM SYSTEM RACEWAY
- FACP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FATC FIRE ALARM TERMINAL CABINET

FIRE ALARM ABBREVIATIONS

- TYP = TYPICAL
- AFF = ABOVE FINISHED FLOOR
- WP = WEATHERPROOF
- CM = CEILING MOUNT DEVICE
- WM = WALL MOUNT DEVICE
- SLC = SIGNALING LINE CIRCUIT
- FAFP = ANNUNCIATOR
- FACP = FIRE ALARM CONTROL PANEL
- NAC = NOTIFICATION APPLIANCE CIRCUIT

FIRE ALARM SEQUENCE OF OPERATION

TYPE OF SYSTEM: REMOTE STATION
24 HOURS STANDBY, 15 MINUTES ALARM USED FOR BATTERY CALCULATIONS

ALARM SEQUENCE:
THIS SYSTEM IS GENERAL ALARM. ACTIVATION OF AN ALARM INITIATING DEVICE WILL CAUSE THE NOTIFICATION APPLIANCES TO ACTIVATE THROUGHOUT THE BUILDING AND AN ALARM SIGNAL SHALL BE SENT TO THE FACP. SYSTEM POINT NUMBER AND DESCRIPTION SHALL BE DISPLAYED. POINT ADDRESS AND MESSAGE ASSOCIATED WITH THE POINT ON TERMINAL. A SIGNAL SHALL BE SENT TO THE OWNER'S REMOTE STATION VIA GSM CELLULAR PANEL. THE GSM CELLULAR PANEL SHALL TRANSMIT SEPARATE SIGNALS TO THE OFF SITE MONITORING COMPANY. THEY SHALL BE AS FOLLOWS: ALARM, SUPERVISORY, TROUBLE AND WATER FLOW.

TROUBLE CONDITIONS:
TROUBLE CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL. A SIGNAL SHALL BE SENT TO THE OWNER'S REMOTE STATION VIA GSM CELLULAR PANEL.
TROUBLE CONDITIONS CAN BE ANY OF THE FOLLOWING: LOSS OF A/C POWER, BATTERY FAILURE OR LOW BATTERY, GROUND FAULT, BREAK IN THE WIRING, DEFECTIVE OR DIRTY EQUIPMENT, DISCONNECTED OR REMOVED DEVICES, LOSS OF PHONE LINES, LOSS OF ELEVATOR POWER (WHEN INSTALLED).

SUPERVISORY CONDITIONS:
SUPERVISORY CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL. A SIGNAL SHALL BE SENT TO THE OWNER'S REMOTE STATION VIA GSM CELLULAR PANEL. SUPERVISORY CONDITIONS CAN BE ANY OF THE FOLLOWING: SPRINKLER TAMPER SWITCHES OR DUCT DETECTORS

INITIATING DEVICE OPERATIONS:
ACTIVATION OF A SMOKE DETECTOR WILL CAUSE AN ALARM CONDITION TO BE REPORTED.
ACTIVATION OF A HEAT DETECTOR WILL CAUSE AN ALARM CONDITION TO BE REPORTED.
MANUAL ACTIVATION OF A PULL STATION WILL CAUSE AN ALARM CONDITION TO BE REPORTED.
SPRINKLER FLOW SWITCH (WHEN INSTALLED) WILL CAUSE AN ALARM CONDITION UPON ACTIVATION.
SPRINKLER TAMPER SWITCHES (WHEN INSTALLED) WILL CAUSE A SUPERVISORY CONDITION UPON ACTIVATION.
DUCT DETECTORS (WHEN INSTALLED) WHEN INITIATED WILL CAUSE A SUPERVISORY CONDITION.

AUXILIARY CONTROLS:

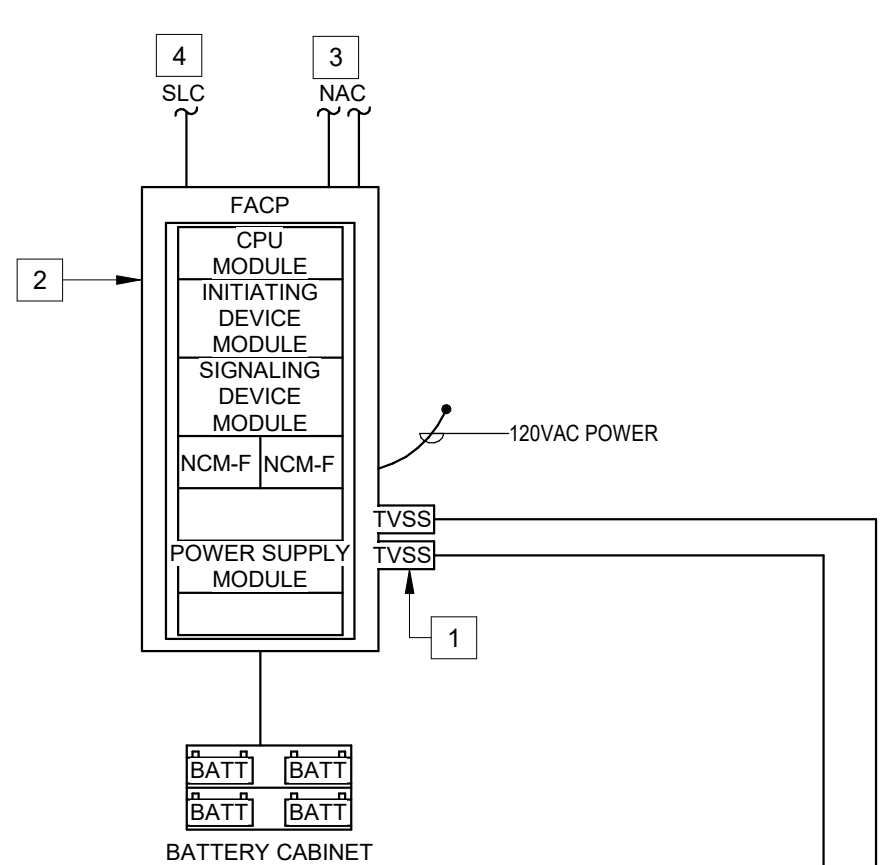
- 1. AIR HANDLERS CONTROLLED BY THE FIRE ALARM SYSTEM SHALL SHUT DOWN BY THEIR RESPECTIVE DUCT DETECTORS.
- 2. SOUND SYSTEM TO SHUT DOWN VIA CONTROL RELAY UPON AN ALARM CONDITION.
- 3. DOOR HOLDERS TO RELEASE UPON AN ALARM CONDITION.
- 4. GAS LINES TO BE CLOSED BY THE FIRE ALARM SYSTEM UPON ACTIVATION OF THE FIRE ALARM SYSTEM
- 5. HVLS FANS TO BE SHUT DOWN BY THE FIRE ALARM SYSTEM UPON ACTIVATION OF THE FIRE ALARM SYSTEM

61G15 FIRE ALARM NOTES

1. THE FIRE ALARM SYSTEM INCLUDES FIRE PROTECTION SUPERVISION, EMERGENCY ALARM CIRCUITS, LIFE SAFETY SYSTEM CONTROLS ACTIVATION, AND REMOTE SIGNALING OF EMERGENCY CONDITIONS.
2. DESIGN SPECIFICATIONS FOR THE PROJECT ARE IN ACCORDANCE WITH PARAMETERS FROM THE FLORIDA BUILDING CODE 8TH EDITION (2023), NFPA 72 (2019), NFPA 70 (2020) AND THE FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023).
3. A PROFESSIONAL ENGINEER OF RECORD IS REQUIRED FOR THE DESIGN OF THE FIRE ALARM SYSTEM.
4. THE 61G ENGINEERING DOCUMENTS FOR THE FIRE ALARM SYSTEM SHALL INCLUDE:
 - A. THE FIRE ALARM SYSTEM LEGEND CAN BE FOUND ON THIS SHEET. THE RISER DIAGRAM CAN BE FOUND ON THIS SHEET. INITIATING CIRCUITS, SUPERVISORY CIRCUITS, AND NOTIFICATION CIRCUITS CABLING REQUIREMENTS SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF CLASS B PATHWAY SUPERVISABILITY LEVEL 1. THE GENERAL OCCUPANCY OF THIS PROJECT IS MIXED USE BUSINESS/RESIDENTIAL STORAGE AND THE OCCUPANCY LOAD IS 182.
 - B. LOCATIONS OF INITIATING AND NOTIFICATION DEVICES ARE SHOWN ON THE FLOOR PLANS AND SHALL CONFORM TO ALL CODES, STANDARDS, AND LOCAL ORDINANCES PERTAINING TO THIS PROJECT.
 - C. REQUIRED FUNCTIONS OF THE FIRE ALARM SYSTEM ARE LOCATED IN THE SEQUENCE OF OPERATIONS FOUND ON THIS SHEET. TRANSMISSION OF SIGNALS FROM THE FIRE ALARM SYSTEM TO REMOTE STATION SHALL BE BY GSM CELLULAR PANEL UNLESS OTHERWISE NOTED.
 - D. THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE AND WILL BE A COMPLETE FIRE ALARM SYSTEM.
 - E. SURGE PROTECTION DEVICES ARE SHOWN ON THE FLOOR PLANS AND RISER DIAGRAM.
 - F. THE USE OF WEATHERPROOF DEVICES, FOR USES LISTED BY THE MANUFACTURER, FOR FIRE ALARM DEVICES THAT ARE SUBJECT TO ENVIRONMENTAL FACTORS BEING TEMPERATURE, HUMIDITY, OR CORROSIVE ATMOSPHERE SHALL BE INDICATED ON THE FLOOR PLAN.
 - G. SITE PLAN SHALL BE PROVIDED IN THIS SUBMITTAL. REFER TO CIVIL DRAWINGS FOR SITE PLAN.
 - H. THE FIRE ALARM SYSTEM SHALL BE A PRESCRIPTIVE BASED DESIGN.
 - I. ALL SMOKE DETECTORS SHALL BE LOCATED ON FLAT SMOOTH CEILING.
 - J. SMOKE STRATIFICATION IS NOT ANTICIPATED TO BE A FACTOR IN THIS DESIGN.
 - K. THE FIRE ALARM SYSTEM IS DESIGNED FOR GENERAL EVACUATION.
 - L. CABLING BURIAL DETAIL IS PROVIDED ON SHEET E502 AND ALL UNDERGROUND WIRING SHALL COMPLY WITH NFPA 70.
5. EDR HAS DETERMINED THAT NO SPECIFIC EQUIPMENT WILL BE REQUIRED FOR THIS PROJECT. BATTERY AND VOLTAGE CALCULATIONS HAVE NOT BEEN PROVIDED AS NO SPECIFIC EQUIPMENT HAS BEEN SPECIFIED. FIRE ALARM CONTRACTOR SHALL PROVIDE ALL REQUIRED BATTERY AND VOLTAGE CALCULATIONS.
6. FIRE ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED PER ALL APPROVED CODES AND STANDARDS PER NFPA 72. ALL LOCAL ORDINANCES AND POLICIES ARE TO BE ADHERED TO BY THE FIRE ALARM CONTRACTOR.
7. UPON COMPLETION OF THE FIRE ALARM SYSTEM, THE FIRE ALARM CONTRACTOR SHALL PROVIDE A COPY OF THE EQUIPMENT INSTALLED, ALL PERTAINING WARRANTIES, AND ALL OPERATION AND MAINTENANCE INSTRUCTIONS TO THE OWNER TO BE KEPT AT THE FIRE ALARM CONTROL PANEL.
8. THERE ARE NO SPECIAL REQUIREMENTS FOR THIS SYSTEM.

FIRE ALARM GENERAL NOTES

- A. ALL WALL-MOUNTED AUDIBLE & VISUAL SIGNALING APPLIANCES SHALL HAVE THEIR HEIGHTS ABOVE THE FINISHED FLOOR AT 8'0" PER FBC CHAPTER 11, ART 11.4.28.3. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72, CH4-4.1.1(4)
- B. SMOKE DETECTORS AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.
- C. STROBE LOCATION IS BASED ON 10 FOOT CEILING HEIGHT AND STROBE SHALL BE INSTALLED ACCORDING TO NFPA 72 REQUIREMENTS UNLESS OTHERWISE NOTED. ANY DEVICES ON CEILINGS OVER 10 FEET WILL BE DERATED PER NFPA 72.
- D. CENTER OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" MAXIMUM ABOVE FLOOR LEVEL PER FBC CHAPTER 11.
- E. ALL EQUIPMENT SHALL BE U.L. LISTED.
- F. ALL WIRING SHALL BE IN ACCORDANCE WITH N.E.C AND SPECIFICATION SECTION 283103.
- G. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE BOX IS INSTALLED BEHIND BUILDING FINISHES OR IN UNFINISHED SPACES.
- H. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS AND DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
- I. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON SHOP DRAWINGS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- J. AREA DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 5 FEET FROM AN AIR SUPPLY DIFFUSER.
- K. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR. FIRE ALARM CONTRACTOR WILL PROVIDE OPEN CONTACT ON ALARM WITHIN THREE FEET OF THE STARTER.
- L. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR AND LISTED FOR THE INSTALLATION. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
- M. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- N. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- O. SMOKE DETECTOR TESTING SHALL BE IN ACCORDANCE WITH NFPA 72.
- P. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
- Q. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
- R. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED. (T-TAPPING IS ALLOWABLE ON STYLE 4 SLC LOOPS WHERE TAPS ARE LOCATED IN METALLIC JUNCTION BOXES)
- S. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING VIA DATA LINES.
- T. THE ALARM SYSTEM SHALL HAVE AN AUDIBILITY OF NOT LESS THAN 15dB ABOVE AMBIENT NOISE LEVELS, BUT NOT LESS THAN 75dB THROUGHOUT AREA OF ALARM. TESTING SHALL BE ACCOMPLISHED WITH A 48 METER, WHERE APPLICABLE.
- U. FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBILITY EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
- V. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
- W. ALL FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE SIMILAR TO THE SYSTEM SENSOR MODEL "WFD SERIES" ONLY.
- X. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- Y. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED. CLEANING OR REPLACEMENT OF DEVICES THAT WERE MOUNTED AT THE REQUEST OF THE CONTRACTOR WILL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION THAT ASSUMES FINANCIAL RESPONSIBILITY FOR COSTS INCURRED.



FIRE DETECTION AND ALARM NOTES

1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED, TESTED, MAINTAINED PER THE FOLLOWING, AND ALL OTHER REFERENCED AND ADOPTED CODES AND STANDARDS THEREIN:
 - A. 2020 FLORIDA BUILDING CODE, 7TH EDITION.
 - B. 2017 NATIONAL ELECTRICAL CODE, NFPA-70.
 - C. 2018 LIFE SAFETY CODE, NFPA-101, FLORIDA SPECIFIC EDITION.
 - D. 2016 NATIONAL FIRE ALARM CODE, NFPA-72.
 - E. 2017 FLORIDA FIRE PREVENTION CODE, 6TH EDITION.
 - F. ADDITIONAL LOCAL STANDARDS, ORDINANCES AND POLICIES.
2. THE FIRE ALARM SYSTEM SHALL CONSIST OF ALL NECESSARY HARDWARE EQUIPMENT AND SOFTWARE PROGRAMMING TO PERFORM THE FOLLOWING FUNCTIONS:
 - A. FIRE ALARM AND DETECTION OPERATIONS.
 - B. MONITORING OF BUILDING FIRE ALARM SYSTEM AS INDICATED IN THE DRAWINGS.
 - 3. GENERAL ALARM - A SYSTEM GENERAL ALARM SHALL INCLUDE:
 - A. INDICATION OF ALARM CONDITION AT THE FIRE ALARM CONTROL PANEL.
 - B. SEE SEQUENCE OF OPERATIONS.
 - 4. THE SYSTEM SHALL BE PROVIDED WITH SUFFICIENT BATTERY CAPACITY TO OPERATE THE ENTIRE SYSTEM UPON LOSS OF NORMAL 120 VAC POWER IN A NORMAL SUPERVISORY MODE FOR A PERIOD OF 24 HOURS WITH 15 MINUTES OF ALARM OPERATION AT THE END OF THIS PERIOD.
 - 5. THE SYSTEM SHALL AUTOMATICALLY TRANSFER TO BATTERY STANDBY UPON POWER FAILURE. ALL BATTERY CHARGING AND RECHARGING OPERATIONS SHALL BE AUTOMATIC.
 - 6. FIRE ALARM SYSTEM WIRING:
 - A. WIRING METHODS SHALL BE PER RATED CABLE AND INSTALLED IN A CONDUIT RACEWAY.
 - B. ANY FIRE ALARM MANUFACTURER SPECIFIC BACK BOX OR PANEL ENCLOSURE SHALL BE SUPPLIED BY THE FIRE ALARM CONTRACTOR. ALL OTHER BACK BOXES AND CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
 - C. FIRE ALARM CABLE SHALL BE CLASS "B" STYLE 4 FOR THE SIGNALING LINE CIRCUIT (SLC), CLASS "B" STYLE "B" FOR THE INITIATING DEVICE CIRCUIT (IDC), AND CLASS "B" STYLE "B" FOR THE NOTIFICATION CIRCUIT (NAC).
 - D. WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE AS REQUIRED BY NFPA 70, ARTICLES 300 AND 760. WIRE TYPE SHALL BE LISTED FOR ITS INTENDED USE BY AN APPROVAL AGENCY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION (AHJ) AND SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES FROM THE CURRENT APPROVED EDITION OF NFPA 70: NATIONAL ELECTRIC CODE (NEC).
 - E. SIGNALING LINE CIRCUIT DEVICE WIRING SHALL BE #18 AWG MINIMUM.
 - F. VISUAL ALARM NOTIFICATION DEVICE WIRING SHALL BE #14 AWG MINIMUM.
 - G. SPEAKER ALARM NOTIFICATION DEVICE WIRING SHALL BE #18 AWG TWISTED/SHIELDED MINIMUM.
 - H. APPROVED MULTI-CONDUCTOR CABLES ARE ACCEPTABLE AS SUBSTITUTES.
 - I. ALL WIRING SHALL BE SUPERVISED PER NFPA 72.
 - J. ALL INTERIOR CONDUIT WHERE REQUIRED SHALL BE 3/4" MINIMUM.
 - K. ALL EXTERIOR UNDERGROUND CONDUIT SHALL BE 1" MINIMUM.
 - 7. ALL STROBES SHALL BE SYNCHRONIZED.
8. ALL CEILING MOUNTED DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF NFPA 72. DETECTORS SHALL BE POSITIONED TO AVOID DRAFTS FROM SUPPLY AIR DIFFUSERS AND AN ADEQUATE DISTANCE FROM EQUIPMENT PRODUCING SUDDEN TEMPERATURE CHANGES, WHICH WOULD RESULT IN NUISANCE FALSE ALARMS. CEILING SMOKE DETECTORS SHALL BE SO LOCATED AS TO NOT ALLOW SUPPLY AIR GRILLS TO IMPERE THE EFFECTIVE OPERATION OF THE DETECTOR. POSITION DETECTOR A MINIMUM OF 3 FEET FROM SUPPLY AND RETURN AIR GRILLS.
9. THE FIRE ALARM CONTROL PANEL AND POWER EXTENDER PANELS SHALL BE CONNECTED TO A DEDICATED, LOCKED, AND MARKED BREAKER. THE 120 VAC CIRCUIT(S) THAT FEED THE FIRE ALARM CONTROL PANELS SHALL BE IDENTIFIED AT BOTH THE FIRE ALARM CONTROL PANEL(S) AND THE ELECTRICAL PANEL CIRCUIT LOCATION. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED 120VAC CIRCUIT WITH BUILDING GROUND FOR THE FIRE ALARM CONTROL PANEL(S). THE CONTROLLING BREAKER(S) SHALL HAVE A LOCK ON PROVISION AND SHALL COMPLY WITH NFPA 72 (2016 ed.) 10.5.5.1 - 10.5.5.3.

FIRE ALARM SHEET KEYNOTES:

1. SURGE PROTECTION DEVICE (TVSS) - REFER TO SPECIFICATIONS FOR MORE INFORMATION ON DEVICE.
2. FIRE ALARM CONTROL PANEL (FACP) - REFER TO SPECIFICATIONS FOR MORE INFORMATION ON CONTROL PANEL.
3. 3/4" CONDUIT WITH NOTIFICATION APPLIANCE CIRCUIT AS REQUIRED BY SYSTEM MANUFACTURER. REFER TO RESPECTIVE BUILDING FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF EVERY NOTIFICATION DEVICE.
4. 3/4" CONDUIT WITH SIGNALING LINE CIRCUIT AS REQUIRED BY SYSTEM CONTRACTOR. REFER TO RESPECTIVE BUILDING FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF EVERY INITIATING DEVICE.
5. SITE TAMPER SWITCHES - COORDINATE EXACT LOCATION WITH FIRE SPRINKLER CONTRACTOR AND SITE CIVIL PRIOR TO ROUGH-IN.

FIRE ALARM NOTES:

- A. ALL WALL-MOUNTED AUDIBLE & VISUAL SIGNALING APPLIANCES SHALL HAVE THEIR HEIGHTS ABOVE THE FINISHED FLOOR AT 8'0" PER FBC CHAPTER 11, ART 11.4.28.3. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72, CH4-4.1.1(4)
- B. SMOKE DETECTORS AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.
- C. STROBE LOCATION IS BASED ON 10 FOOT CEILING HEIGHT AND STROBE SHALL BE INSTALLED ACCORDING TO NFPA 72 REQUIREMENTS UNLESS OTHERWISE NOTED. ANY DEVICES ON CEILINGS OVER 10 FEET WILL BE DERATED PER NFPA-72.
- D. CENTER OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" MAXIMUM ABOVE FLOOR LEVEL. PER FBC CHAPTER 11.
- E. ALL EQUIPMENT SHALL BE U.L. LISTED.
- F. ALL WIRING SHALL BE IN ACCORDANCE WITH N.E.C AND SPECIFICATION SECTION 283100
- G. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE BOX IS INSTALLED BEHIND BUILDING FINISHES OR IN UNFINISHED SPACES.
- H. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS AND DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
- I. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON SHOP DRAWINGS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- J. AREA DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 5 FEET FROM AN AIR SUPPLY DIFFUSER.
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- L. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR AND LISTED FOR TH INSTALLATION. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
- M. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- N. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- O. SMOKE DETECTOR TESTING SHALL BE IN ACCORDANCE WITH NFPA 72 SECTION 7.5.4.
- P. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
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- S. PROVIDE CELLULAR COMMUNICATOR FOR CENTRAL STATION MONITORING VIA CELLPHONE LINES.
- T. THE ALARM SYSTEM SHALL HAVE AN AUDIBILITY OF NOT LESS THAN 15dB ABOVE AMBIENT NOISE LEVELS, BUT NOT LESS THAN 75dB THROUGHOUT AREA OF ALARM. TESTING SHALL BE ACCOMPLISHED WITH A 48 METER, WHERE APPLICABLE.
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SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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REVISIONS		
MARK	DESCRIPTION	DATE

COMM. NO.: 2023820

ISSUE DATE: 01.05.2024

DRAWN BY: GFS

GENERAL NOTES & DESIGN CRITERIA - FIRE ALARM



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REVISIONS

MARK	DESCRIPTION	DATE

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	FINISH	LUMENS	LED LAMP WATTS	CCT	DIMMING	VOLTAGE	MOUNTING	NOTES
A	LED 4" WIDE LINEAR RECESSED FIXTURE, RGBW, WET LOCATION, CONTINUOUS RUNS, SEE FLOOR PLAN FOR LENGTHS (A56 INDICATES 56" RUN, A34 IS 24" RUN, A12 IS 12" RUN, A8 IS 8" RUN) BRUSHWOOD LIGHTING CAT# VAN-LED-400-RGBW-700-CR"LENGTH" OR REC-STN0FN5SH-FW-UNV-040W	BLACK	7000FT	150FT	3500	0-10	UNV	RECESSED	PROVIDE COMPATIBLE DIMM CONTROLS, CONTROLS MUST BE CAPABLE OF SAVING SPECIFIC SETTINGS FOR QUICKLY SWITCHING BETWEEN FULL OUTPUT WHITE LIGHTING AND RED LIGHTING.
B	LED 2"x2" RECESSED TROFFER, DAY-BRITE CAT# 2FGK33LEB5-2-RS-UNV-06V7MA22	BLACK	3800	20	5000	0-10	UNV	RECESSED	
C	LED LENSED LINEAR STRIP LIGHT, DAY-BRITE CAT# F55440LB35-UNV-DIM	BLACK	4800	30	5000	0-10	UNV	CHAIN HUNG	CHAIN HUNG
C1	4" LED LENSED LINEAR STRIP LIGHT, DAY-BRITE CAT# F55440LB35-UNV-DIM	BLACK	4800	30	5000	0-10	UNV	WALL	
C2	2" LED LENSED LINEAR STRIP LIGHT, DAY-BRITE CAT# F55225LB35-UNV-DIM	BLACK	2400	15	5000	0-10	UNV	WALL	
C3	LED LENSED LINEAR STRIP LIGHT, WILLIAMS CAT# LRM6-F-4-L12/845-04A-DIM-UNV	BLACK	1200FT	13.1/FT	3500	0-10	UNV	RECESSED	
D	LED ROUND 4" RECESSED DOWNLIGHT, LIGHTFOUNDER CAT# 48N-24RL209S9W0CD-22DU	BLACK	2400	8	3000	0-10	UNV	RECESSED	
DB	LED ROUND 4" RECESSED DOWNLIGHT, LIGHTFOUNDER CAT# 48N-24RL209S9W0CD-22DU	BLACK	2400	8	3000	0-10	UNV	RECESSED	
D1	LED ROUND 4" RECESSED DOWNLIGHT, LIGHTFOUNDER CAT# 48N-24RL209S9W0CD-22DU	WHITE	2400	8	3000	0-10	UNV	RECESSED	
D2	LED ROUND 4" RECESSED DOWNLIGHT, LIGHTFOUNDER CAT# 48N-24RL209S9W0CD-22DU	WHITE	500	5	3000	0-10	UNV	RECESSED	
D3	LED ROUND 4" RGBW RECESSED DOWNLIGHT, COLORONIK CAT# SHLKD2CR08BW-PWM / 5RLED21WVW-PWM	WHITE	1255	20	5000	0-10	UNV	RECESSED	PROVIDE COMPATIBLE DIMM CONTROLS, CONTROLS MUST BE CAPABLE OF SAVING SPECIFIC SETTINGS FOR QUICKLY SWITCHING BETWEEN FULL OUTPUT WHITE LIGHTING AND RED LIGHTING.
D4	LED ROUND 4" ADJUSTABLE RECESSED DOWNLIGHT, LIGHTFOUNDER CAT# L4R5D2ZDUVB-L4R4D9B3WVB	WHITE	1800	8	3500	0-10	UNV	RECESSED	
D5	LED ROUND 4" RECESSED DOWNLIGHT, LIGHTFOUNDER CAT# 48N-24RL209S9W0CD-22DU	WHITE	1800	8	3500	0-10	UNV	RECESSED	
EX	EDGE LIT EXIT SIGN, GREEN, BEGHELLI CAT# OL2-SA-IG-X-C-CR	WHITE						WALL/RECESSED	
EX1	WET LOCATION EXIT SIGN, GREEN, BEGHELLI CAT# FTZ-SA-L-U-WV	WHITE						WALL/RECESSED	
F1	52" CEILING FAN WITH LED LIGHT, HUNTER CAT# AN57N-1001450	BLACK		18			UNV	CEILING	PROVIDE CEILING FAN WITH LED LIGHT, LIGHTS AND FAN SHALL BE CONTROLLED INDEPENDENTLY AT WALL SWITCHES.
F2	52" CEILING FAN NO LIGHT KIT, HUNTER CAT# CASSIUS OUTDOOR 52 INCH	BLACK		18			UNV	CEILING	WALL CONTROLLED
F3	72" CEILING FAN NO LIGHT KIT, HUNTER CAT# DOWNTOWN 1001250	BLACK		18			UNV	CEILING	WALL CONTROLLED
G	DECORATIVE PENDANT, HUNTER CAT# 19942							120	PENDANT

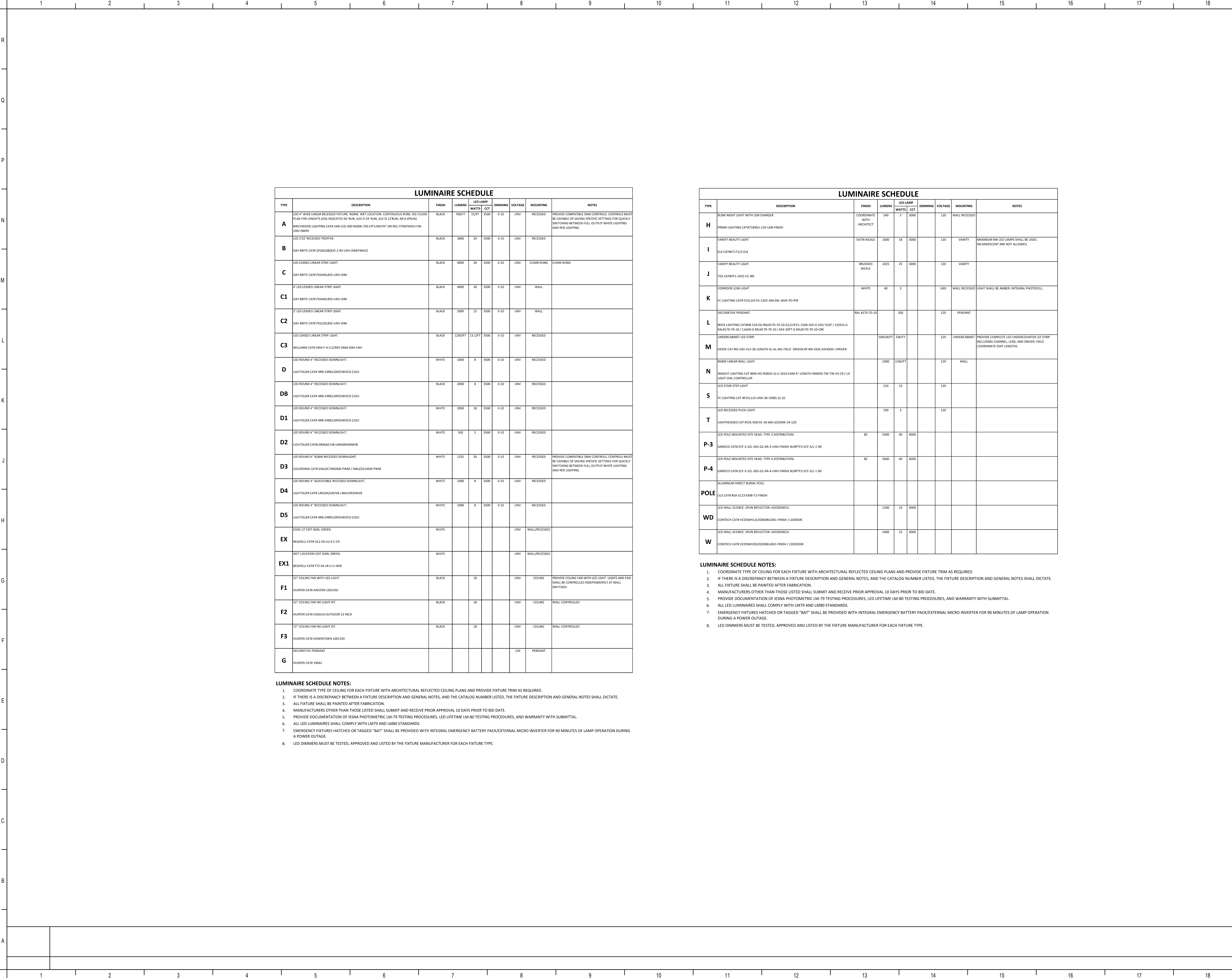
LUMINAIRE SCHEDULE NOTES:

- COORDINATE TYPE OF CEILING FOR EACH FIXTURE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PROVIDE FIXTURE TRIM AS REQUIRED.
- IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
- ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.
- MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.
- PROVIDE DOCUMENTATION OF IESNA PHOTOMETRIC LM-79 TESTING PROCEDURES, LED LIFETIME LM-80 TESTING PROCEDURES, AND WARRANTY WITH SUBMITTAL.
- ALL LED LUMINAIRES SHALL COMPLY WITH LM79 AND LM80 STANDARDS.
- EMERGENCY FIXTURES HATCHED OR TAGGED "BAT" SHALL BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK/EXTERNAL MICRO INVERTER FOR 90 MINUTES OF LAMP OPERATION DURING A POWER OUTAGE.
- LED DIMMERS MUST BE TESTED, APPROVED AND LISTED BY THE FIXTURE MANUFACTURER FOR EACH FIXTURE TYPE.

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	FINISH	LUMENS	LED LAMP WATTS	CCT	DIMMING	VOLTAGE	MOUNTING	NOTES
H	BUNK NIGHT LIGHT WITH USB CHARGER, PRIMA LIGHTING CAT#7384SU-120-USB-FINISH	COORDINATE WITH ARCHITECT	240	3	3000			120	WALL RECESSED
I	VANITY BEAUTY LIGHT, ELK CAT#717J2-ELK	SATIN NICKLE	1600	18	3000			120	VANITY
J	VANITY BEAUTY LIGHT, TGS CAT#V1-2425-CC-8N	BROUSIED NICKLE	2425	25	3000			120	VANITY
K	CORRIDOR LOW LIGHT, FC LIGHTING CAT# FCL1017A-120V-AM-84L-WHE-PE-4PR	WHITE	40	3				UNV	WALL RECESSED
L	DECORATIVE PENDANT, ROCK LIGHTING CAT#RB-V16-FG-RAL#170-70-10-GL1V(FV1)-150W-35K-0-UNV/415F / 31DC-G-RAL#170-70-10 / 116AR-G-RAL#170-70-10 / 648-20T-G-RAL#170-70-10-CBK	RAL #170-70-10		200				120	PENDANT
M	UNDERCABINET LED STRIP, DIODE CAT #D1-24V-V15-30-LENGTH-SL-AL-MC-FIELD DRIVEN BY 40V-0QR-24VXXXXV J DRIVER		500LM/FT	5W/FT				120	UNDERCABINET
N	RGBW LINEAR WALL LIGHT, HIGHT LIGHTING CAT #WX-HQ-RGB35-Q-U-1050-EAM-6"-LENGTH-DMXXX-TW-TW-VS-CR / LD LIGHT DIMM CONTROLLER		2400	15W/FT				120	WALL
S	LED STAR STEP LIGHT, FC LIGHTING CAT #FCL110-UNV-3K-CRBS-2L-55		210	10				120	
T	LED RECESSED PLUCK LIGHT, LIGHTHEADED CAT #S35-05B-03-30-6M-LED20W-24-120		150	3				120	
P-3	LED POLE MOUNTED SITE HEAD, TYPE 3 DISTRIBUTION, GARDCO CAT# ECF-5-32L-365-G2-AR-3-UNV-FINISH-WWPT2-ECK-S/L-1-90	BL	5400	40	4000				
P-4	LED POLE MOUNTED SITE HEAD, TYPE 4 DISTRIBUTION, GARDCO CAT# ECF-5-32L-365-G2-AR-4-UNV-FINISH-WWPT2-ECK-S/L-1-90	BL	5600	40	4000				
POLE	ALUMINUM DIRECT BURIAL POLE, ILS CAT# RSA-5123-EMB-T3-FINISH								
WD	LED WALL SCONCE, SPUN REFLECTOR, GOOSENECK, CONTECH CAT# VCD5WHY12LDB30KL01-FINISH / GDB30K		1200	10	4000				
W	LED WALL SCONCE, SPUN REFLECTOR, GOOSENECK, CONTECH CAT# VCD5WHY12LDB30KL02-FINISH / LDD2030K		2400	22	4000				

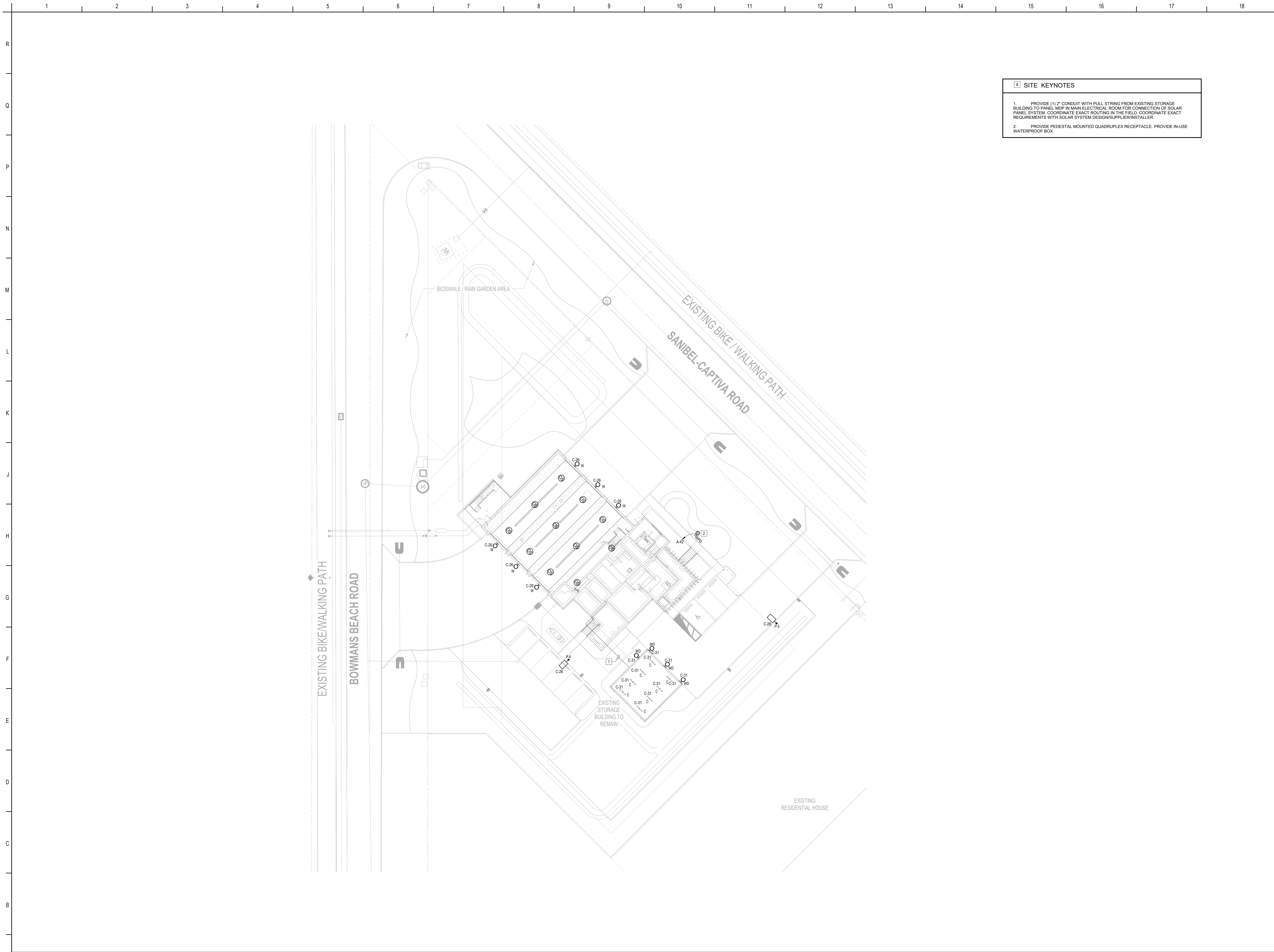
LUMINAIRE SCHEDULE NOTES:

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- MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.
- PROVIDE DOCUMENTATION OF IESNA PHOTOMETRIC LM-79 TESTING PROCEDURES, LED LIFETIME LM-80 TESTING PROCEDURES, AND WARRANTY WITH SUBMITTAL.
- ALL LED LUMINAIRES SHALL COMPLY WITH LM79 AND LM80 STANDARDS.
- EMERGENCY FIXTURES HATCHED OR TAGGED "BAT" SHALL BE PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK/EXTERNAL MICRO INVERTER FOR 90 MINUTES OF LAMP OPERATION DURING A POWER OUTAGE.
- LED DIMMERS MUST BE TESTED, APPROVED AND LISTED BY THE FIXTURE MANUFACTURER FOR EACH FIXTURE TYPE.

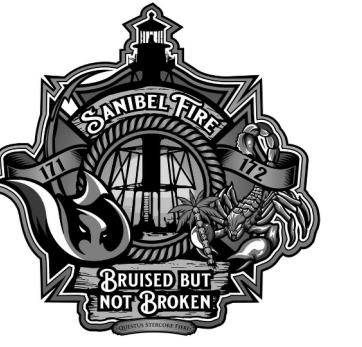


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LIGHTING FIXTURE SCHEDULE - ELECTRICAL



- 1 SITE KEYNOTES**
1. PROVIDE (1) 2" CONDUIT WITH PULL STRING FROM EXISTING STORAGE BUILDING TO PANEL MDP IN MAIN ELECTRICAL ROOM FOR CONNECTION OF SOLAR PANEL SYSTEM. COORDINATE EXACT ROUTING IN THE FIELD. COORDINATE EXACT REQUIREMENTS WITH SOLAR SYSTEM DESIGNER/SUPPLIER/INSTALLER.
 2. PROVIDE PEDESTAL MOUNTED QUADRUPLX RECEPTACLE. PROVIDE IN-USE WATERPROOF BOX.



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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Estero, FL 33928
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MAY 2015
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SITE PLAN - ELECTRICAL

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SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

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6015 OHLAND AVE
MIRAMONTE, FL 33761
FL REG. NO. 10000000

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MARK	DESCRIPTION	DATE

Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Luminaire Watts	Total Watts	Description
	1	P-3	Single	5428	1.000	40	40	ECF-S-32L-365-VWV-G2-3
	1	P-4	Single	5637	1.000	40	40	ECF-S-32L-365-VWV-G2-4
	6	W	Single	2465	1.000	21.8	130.8	VCDSWH20LDD2030KFM-P
	8	WD	Single	1199	1.000	10	80	VCDSWH12LDD30KFM-P

Label	CalcType	Units	Avg	Max	Min	Avg/Min
10' FAST PROPERTY LINE_At Grade	Illuminance	Fc	0.01	0.2	0.0	N.A.
DRIVE_At Grade	Illuminance	Fc	1.21	5.3	0.0	N.A.
PARKING_At Grade	Illuminance	Fc	1.51	5.8	0.1	15.10
PROPERTY LINE_At Grade	Illuminance	Fc	0.03	0.5	0.0	N.A.

- NOTES:
- CALCULATIONS SHOWN ARE INITIAL HORIZONTAL FOOTCANDLES, TAKEN AT GRADE
 - LUMINAIRES DEFINED AS SPECIFIED
 - LUMINAIRES PLACED IN SPECIFIED LOCATIONS
 - MOUNTING HEIGHT IS ALWAYS A.F.G. OR A.F.F. UNLESS NOTED
 - MOUNTING DETAILS TO BE CONFIRMED BY OTHERS

GENERAL SITE PHOTOMETRICS NOTES :

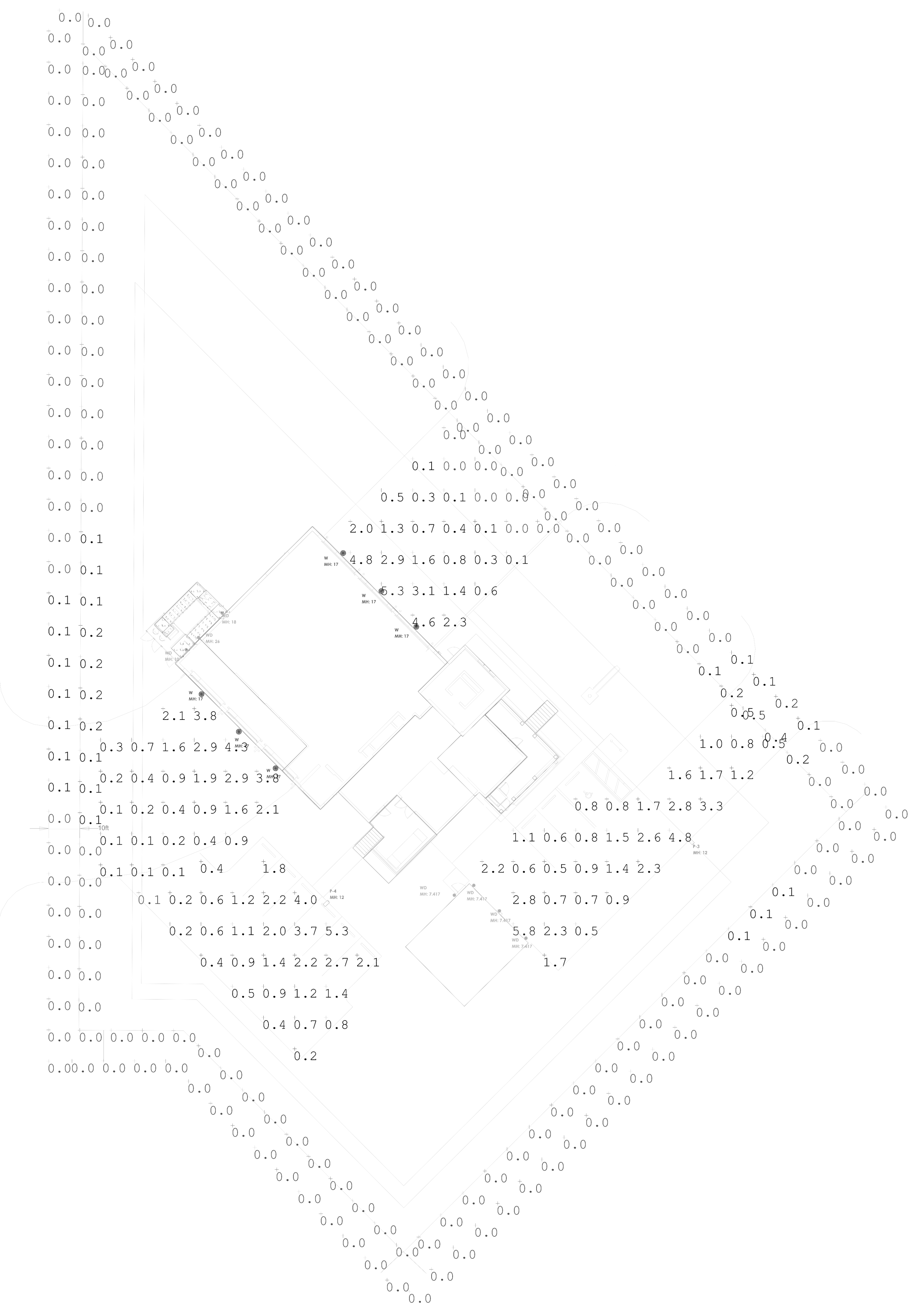
- ELECTRICAL CONTRACTOR IS REQUIRED TO PROVIDE SIGNED AND SEALED DRAWINGS STATING THAT THE POLES MEET THE REQUIRED WIND LOADING.
- LUMINAIRE MOUNTING HEIGHT SHALL BE AS INDICATED ON PLANS.
- CALCULATIONS ARE IN FOOT-CANDLES.
- CALCULATION POINTS ARE AS INDICATED ON CALCULATION SUMMARY UNDER CALCULATION PLANE HEIGHT.
- POSITION OF LUMINAIRES IS TO GIVE OPTIMAL LIGHT LEVEL IN AREAS ACCORDING TO IES RECOMMENDATIONS AND LIFE SAFETY STANDARDS.
- CONTRACTOR SHALL ENSURE SITE LIGHTING LOCATIONS DO NOT CONFLICT WITH ANY PROPOSED TREE LOCATIONS ON SITE. CONTRACTOR SHALL TRIM TREE BRANCHES THAT BLOCK SITE LIGHT FIXTURES AS NECESSARY TO ACHIEVE FULL LIGHT DISTRIBUTION.
- THIS PHOTOMETRIC IS ONLY FOR THE FIXTURES SPECIFIED AND INDICATED.
- ANY CHANGES WILL REQUIRE A NEW PHOTOMETRIC STUDY.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMPS			VOLTAGE	MOUNTING	NOTES
		LUMENS	WATTS	TEMP			
P-3	LED SITE HEAD, TYPE 3 DISTRIBUTION, 2000 LUMENS, 4000K, ARM MOUNT, MOUNT ON 12'x6" DIRECT EMBEDMENT ALUMINUM POLE GARCO CAT# ECF-S-32L-365-G2-AR-3-UNV-FINISH W/PTF2-ECF-S/A-1-90	5400	40W	4000K	UNV	POLE	
P-4	LED SITE HEAD, TYPE 4 DISTRIBUTION, 2000 LUMENS, 4000K, ARM MOUNT, MOUNT ON 12'x6" DIRECT EMBEDMENT ALUMINUM POLE GARCO CAT# ECF-S-32L-365-G2-AR-4-UNV-FINISH W/PTF2-ECF-S/A-1-90	5600	40W	4000K	UNV	POLE	
WD	LED FULL CUTOFF WALL SCONCE, 1200 LUMENS, 4000K, WET LOCATION LISTED, FINISH BY ARCHITECT CONTECH CAT#VCDSWH20LDD30KFM-FINISH / LDD30K	1200	10W	4000K	UNV	WALL	
W	LED FULL CUTOFF WALL SCONCE, 2400 LUMENS, 4000K, WET LOCATION LISTED, FINISH BY ARCHITECT CONTECH CAT# VCDSWH20LDD30KFM-FINISH / LDD30K	2400	22W	4000K	UNV	WALL	

GENERAL LIGHTING FIXTURE NOTES:

- IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL OBTAIN.
- ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.
- MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.
- PROVIDE DOCUMENTATION OF IESNA PHOTOMETRIC LM-79 TESTING PROCEDURES, LED LIFETIME LM-80 TESTING PROCEDURES, AND WARRANTY WITH SUBMITTAL.
- ALL LED LUMINAIRES SHALL COMPLY WITH LM79 AND LM80 STANDARDS.



1 SITE PLAN - PHOTOMETRICS

1" = 20'-0"

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**SITE PLAN -
PHOTOMETRICS**

Job Name: SANIBEL FIRE AND RESCUE STATION
Manufacturer: GARCO
Model Number: ECF-S-32L-365-G2-AR-3-UNV-FINISH W/PTF2-ECF-S/L-1-90
Type: P-3
Site & Area: EcoForm
ECF-S small area light

Job Name: SANIBEL FIRE AND RESCUE STATION
Manufacturer: GARCO
Model Number: ECF-S-32L-365-G2-AR-4-UNV-FINISH W/PTF2-ECF-S/L-1-90
Type: P-4
Site & Area: EcoForm
ECF-S small area light

Job Name: SANIBEL FIRE AND RESCUE STATION
Manufacturer: CONTECH
Model Number: VCDSWH12LD803KLG1-FINISH / LD803K
Type: WD
VC SERIES | LED Vintage RLM: Warehouse Shade

Job Name: SANIBEL FIRE AND RESCUE STATION
Manufacturer: CONTECH
Model Number: VCDSWH12LD803KLG1-FINISH / LD803K
Type: WD
VC SERIES | LED Vintage RLM: Warehouse Shade

Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Classic style RLM luminaires inspired by vintage fixtures and redesigned with the latest technology and materials. Multiple mounting options for a wide range of applications. Durable weather resistant Polyester Powder Coat Finishes, Electrostatically applied and Thermo-Cured.

Classic style RLM luminaires inspired by vintage fixtures and redesigned with the latest technology and materials. Multiple mounting options for a wide range of applications. Durable weather resistant Polyester Powder Coat Finishes, Electrostatically applied and Thermo-Cured.

Ordering guide example: ECF-S-64L-900-NW-G2-AR-8-120-HB-MDY

Part	Quantity	Description	Notes
ECF-S	1	64 LED (4 module) (3 module) (3 module)	
ARM	1	64 LED (4 module) (3 module) (3 module)	

System

Item	Quantity	Description	Notes
SDP*	1	0-10V External dimming	
LED*	64	LEDs	

Ordering guide example: ECF-S-64L-900-NW-G2-AR-8-120-HB-MDY

Part	Quantity	Description	Notes
ECF-S	1	64 LED (4 module) (3 module) (3 module)	
ARM	1	64 LED (4 module) (3 module) (3 module)	

System

Item	Quantity	Description	Notes
SDP*	1	0-10V External dimming	
LED*	64	LEDs	

Ordering information

Example Order: VCDSWH12LD803KLG1-FINISH - S

Shade Size	LED Series	Color Temp	Mounting	Finish
VCDSWH12-12in	LED12-18V	27K-3000K	FC	Black
VCDSWH16-16in	LED16-18V	30K-4000K	FM	Evergreen
VCDSWH20-20in	LED20-25V	40K-4000K	LSM12*	Sky White

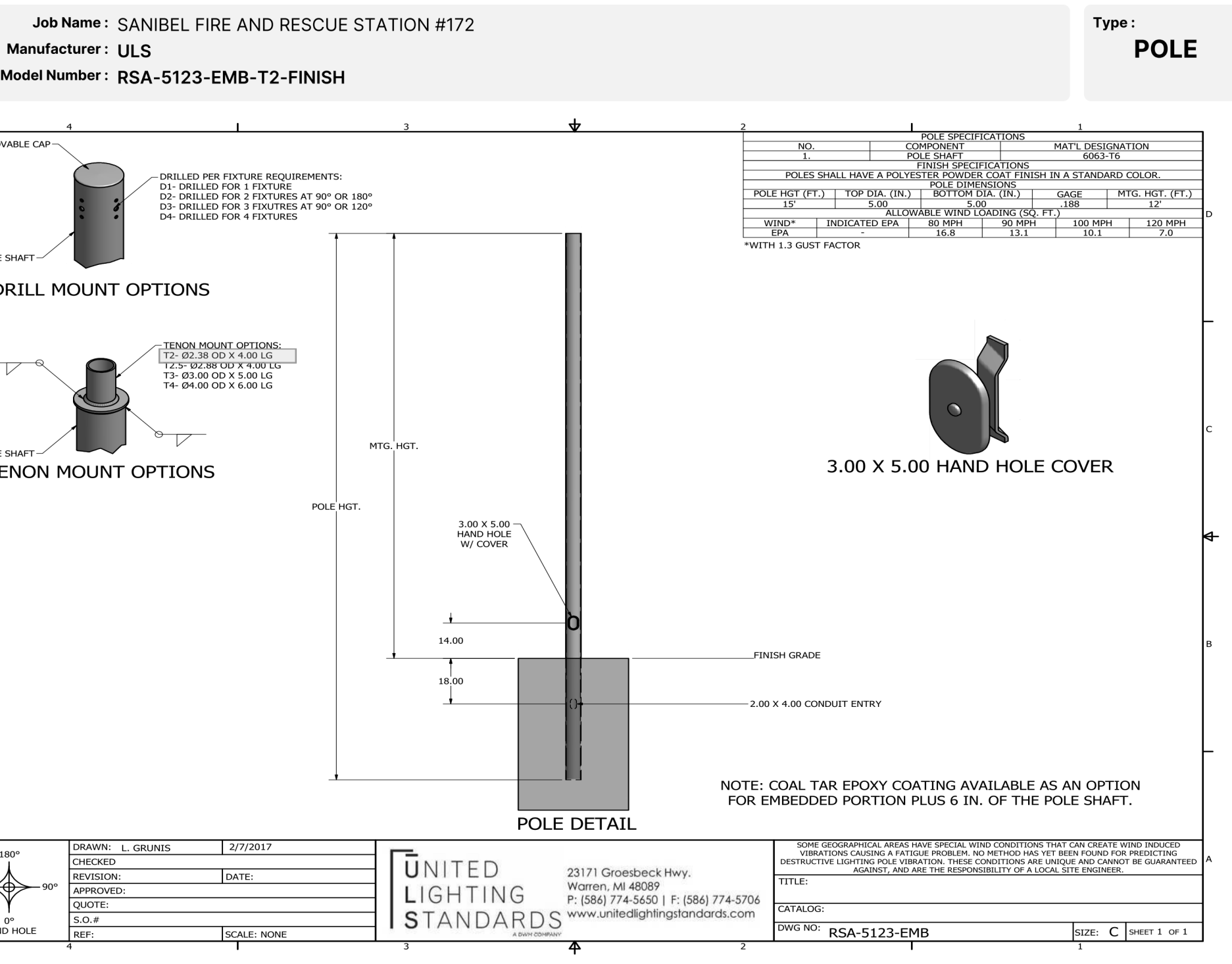
WATTAGE	LUMEN OUTPUT (3000K)	CR
10W	2700 / 3000K / 3500K / 4000K	90+
14W	1220 Lm	3-Step MacAdam Ellipse Tolerance, 3 SDCM
18W	1650 Lm	
22W	2100 Lm	
36W	2500 Lm	
36W	3700 Lm	

Ordering information

Example Order: VCDSWH12LD803KLG1-FINISH - S

Shade Size	LED Series	Color Temp	Mounting	Finish
VCDSWH12-12in	LED12-18V	27K-3000K	FC	Black
VCDSWH16-16in	LED16-18V	30K-4000K	FM	Evergreen
VCDSWH20-20in	LED20-25V	40K-4000K	LSM12*	Sky White

WATTAGE	LUMEN OUTPUT (3000K)	CR
10W	2700 / 3000K / 3500K / 4000K	90+
14W	1220 Lm	3-Step MacAdam Ellipse Tolerance, 3 SDCM
18W	1650 Lm	
22W	2100 Lm	
36W	2500 Lm	
36W	3700 Lm	



Job Name: SANIBEL FIRE AND RESCUE STATION
Manufacturer: CONTECH
Model Number: VCDSWH20LD203KLG2-FINISH / LD20303K
Type: W
VC SERIES | LED Vintage RLM: Warehouse Shade

Classic style RLM luminaires inspired by vintage fixtures and redesigned with the latest technology and materials. Multiple mounting options for a wide range of applications. Durable weather resistant Polyester Powder Coat Finishes, Electrostatically applied and Thermo-Cured.

WATTAGE	LUMEN OUTPUT (3000K)	CR
10W	2700 / 3000K / 3500K / 4000K	90+
14W	1220 Lm	3-Step MacAdam Ellipse Tolerance, 3 SDCM
18W	1650 Lm	
22W	2100 Lm	
36W	2500 Lm	
36W	3700 Lm	

Job Name: SANIBEL FIRE AND RESCUE STATION
Manufacturer: CONTECH
Model Number: VCDSWH20LD203KLG2-FINISH / LD20303K
Type: W
VC SERIES | LED Vintage RLM: Warehouse Shade

Classic style RLM luminaires inspired by vintage fixtures and redesigned with the latest technology and materials. Multiple mounting options for a wide range of applications. Durable weather resistant Polyester Powder Coat Finishes, Electrostatically applied and Thermo-Cured.

WATTAGE	LUMEN OUTPUT (3000K)	CR
10W	2700 / 3000K / 3500K / 4000K	90+
14W	1220 Lm	3-Step MacAdam Ellipse Tolerance, 3 SDCM
18W	1650 Lm	
22W	2100 Lm	
36W	2500 Lm	
36W	3700 Lm	



SANIBEL FIRE & RESCUE DISTRICT
 2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:
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 SANIBEL, FLORIDA 33957

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FIXTURES - PHOTOMETRICS



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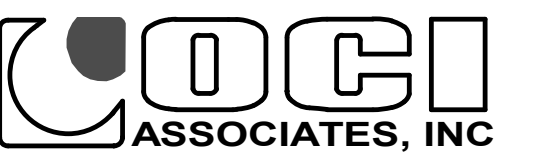
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STATION 172**

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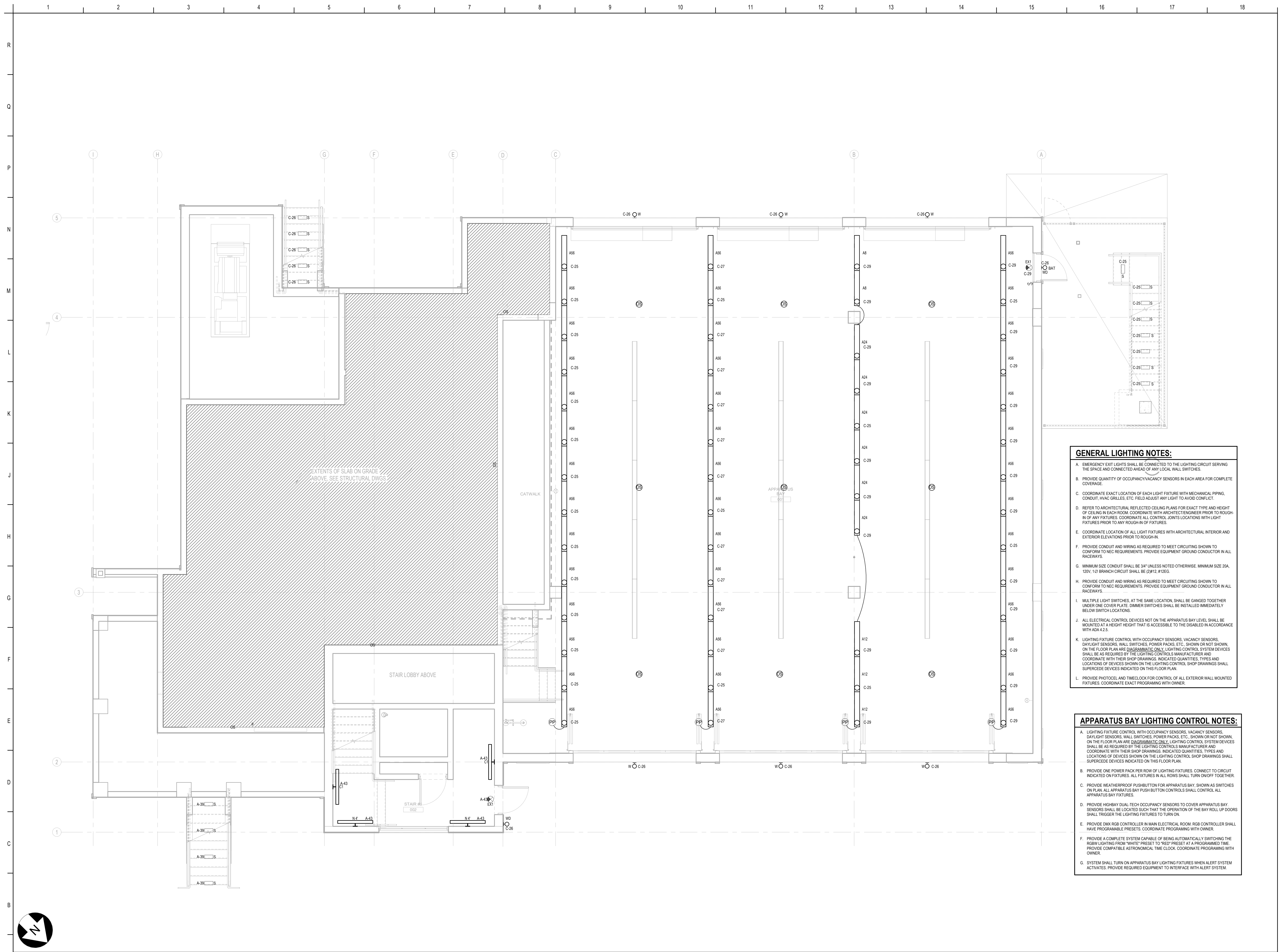


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Miami, FL 33151
FL REG. NO. 78999

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- GENERAL LIGHTING NOTES:**
- EMERGENCY EXIT LIGHTS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT SERVING THE SPACE AND CONNECTED AHEAD OF ANY LOCAL WALL SWITCHES.
 - PROVIDE QUANTITY OF OCCUPANCY/VACANCY SENSORS IN EACH AREA FOR COMPLETE COVERAGE.
 - COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GRILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINTS LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
 - COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
 - PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
 - MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE. MINIMUM SIZE 20A, 120V, 1Ø BRANCH CIRCUIT SHALL BE (2#12, #12EG).
 - PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
 - MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
 - ALL ELECTRICAL CONTROL DEVICES NOT ON THE APPARATUS BAY LEVEL SHALL BE MOUNTED AT A HEIGHT THAT IS ACCESSIBLE TO THE DISABLED IN ACCORDANCE WITH ADA 4.2.5.
 - LIGHTING FIXTURE CONTROL WITH OCCUPANCY SENSORS, VACANCY SENSORS, DAYLIGHT SENSORS, WALL SWITCHES, POWER PACKS, ETC. SHOWN OR NOT SHOWN, ON THE FLOOR PLAN ARE DIAGRAMMATIC ONLY. LIGHTING CONTROL SYSTEM DEVICES SHALL BE AS REQUIRED BY THE LIGHTING CONTROLS MANUFACTURER AND COORDINATE WITH THEIR SHOP DRAWINGS. INDICATED QUANTITIES, TYPES AND LOCATIONS OF DEVICES SHOWN ON THE LIGHTING CONTROL SHOP DRAWINGS SHALL SUPERCEDE DEVICES INDICATED ON THIS FLOOR PLAN.
 - PROVIDE PHOTOCELL AND TIMELOCK FOR CONTROL OF ALL EXTERIOR WALL MOUNTED FIXTURES. COORDINATE EXACT PROGRAMMING WITH OWNER.

- APPARATUS BAY LIGHTING CONTROL NOTES:**
- LIGHTING FIXTURE CONTROL WITH OCCUPANCY SENSORS, VACANCY SENSORS, DAYLIGHT SENSORS, WALL SWITCHES, POWER PACKS, ETC. SHOWN OR NOT SHOWN, ON THE FLOOR PLAN ARE DIAGRAMMATIC ONLY. LIGHTING CONTROL SYSTEM DEVICES SHALL BE AS REQUIRED BY THE LIGHTING CONTROLS MANUFACTURER AND COORDINATE WITH THEIR SHOP DRAWINGS. INDICATED QUANTITIES, TYPES AND LOCATIONS OF DEVICES SHOWN ON THE LIGHTING CONTROL SHOP DRAWINGS SHALL SUPERCEDE DEVICES INDICATED ON THIS FLOOR PLAN.
 - PROVIDE ONE POWER PACK PER ROW OF LIGHTING FIXTURES. CONNECT TO CIRCUIT INDICATED ON FIXTURES. ALL FIXTURES IN ALL ROWS SHALL TURN ON/OFF TOGETHER.
 - PROVIDE WEATHERPROOF PUSHBUTTON FOR APPARATUS BAY. SHOWN AS SWITCHES ON PLAN. ALL APPARATUS BAY PUSHBUTTON CONTROLS SHALL CONTROL ALL APPARATUS BAY FIXTURES.
 - PROVIDE HIGHBAY DUAL-TECH OCCUPANCY SENSORS TO COVER APPARATUS BAY. SENSORS SHALL BE LOCATED SUCH THAT THE OPERATION OF THE BAY ROLL UP DOORS SHALL TRIGGER THE LIGHTING FIXTURES TO TURN ON.
 - PROVIDE DARK RGB CONTROLLER IN MAIN ELECTRICAL ROOM. RGB CONTROLLER SHALL HAVE PROGRAMMABLE PRESETS. COORDINATE PROGRAMMING WITH OWNER.
 - PROVIDE A COMPLETE SYSTEM CAPABLE OF BEING AUTOMATICALLY SWITCHING THE RGBW LIGHTING FROM "WHITE" PRESET TO "RED" PRESET AT A PROGRAMMED TIME. PROVIDE COMPATIBLE ASTRONOMICAL TIME CLOCK. COORDINATE PROGRAMMING WITH OWNER.
 - SYSTEM SHALL TURN ON APPARATUS BAY LIGHTING FIXTURES WHEN ALERT SYSTEM ACTIVATES. PROVIDE REQUIRED EQUIPMENT TO INTERFACE WITH ALERT SYSTEM.

1 FLOOR PLAN - APPARATUS BAY - LIGHTING

1/4" = 1'-0"

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**FLOOR PLAN - APPARATUS
BAY - LIGHTING**



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**SANIBEL FIRE AND RESCUE
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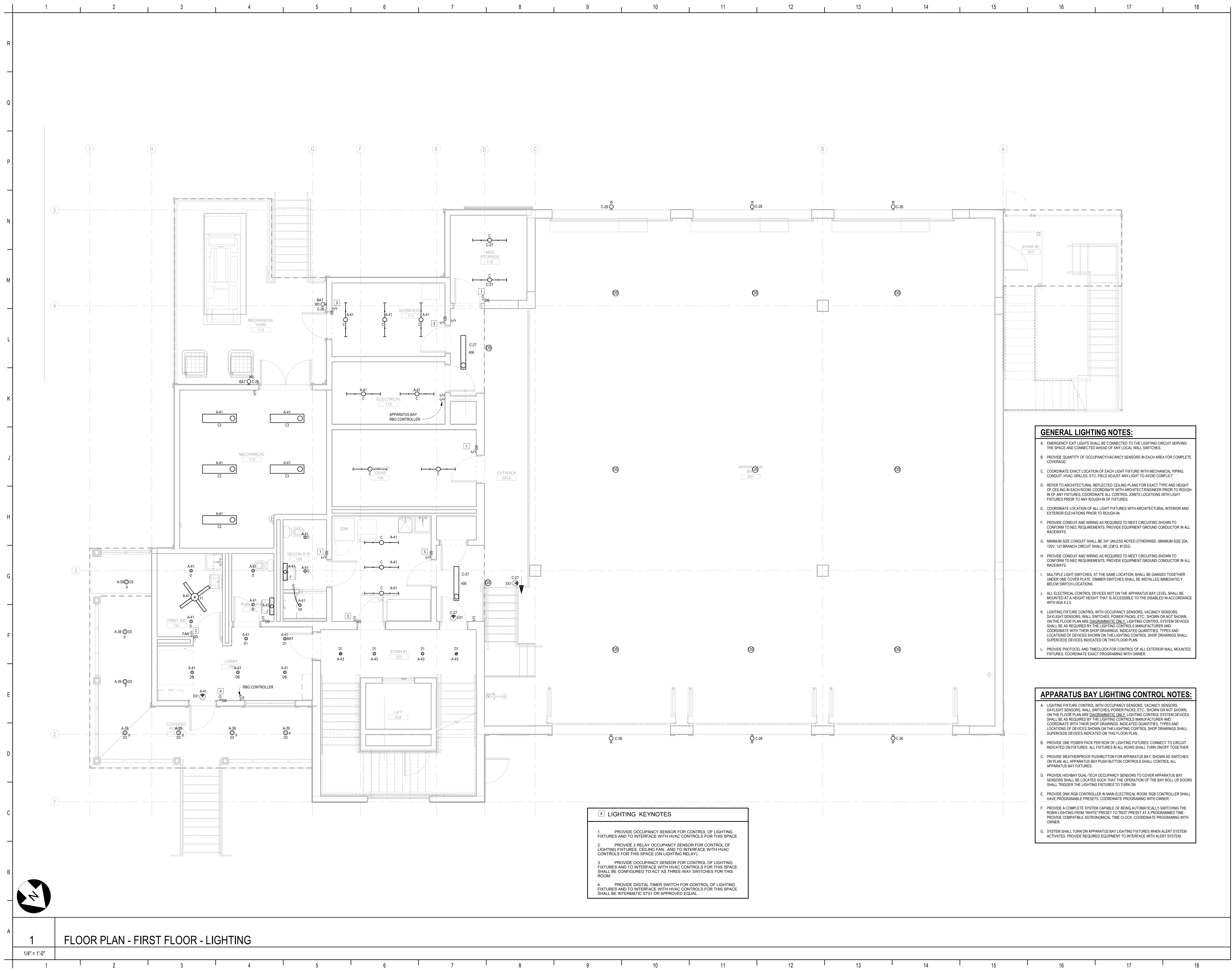


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6816 OHLAND AVE.
MARIETTA, GA 30067
FL REG. NO. 78986

REVISIONS

MARK	DESCRIPTION	DATE



GENERAL LIGHTING NOTES:

- A. EMERGENCY EXIT LIGHTS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT SERVING THE SPACE AND CONNECTED AHEAD OF ANY LOCAL WALL SWITCHES.
- B. PROVIDE QUANTITY OF OCCUPANCY/VACANCY SENSORS IN EACH AREA FOR COMPLETE COVERAGE.
- C. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GRILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINTS LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
- E. COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
- F. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
- G. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE. MINIMUM SIZE 20A, 20V, 1/2" BRANCH CIRCUIT SHALL BE #14 @ 125%.
- H. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
- I. MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
- J. ALL ELECTRICAL CONTROL DEVICES NOT ON THE APPARATUS BAY LEVEL SHALL BE MOUNTED AT A HEIGHT THAT IS ACCESSIBLE TO THE DISABLED IN ACCORDANCE WITH ADA 4.2.5.
- K. LIGHTING FIXTURE CONTROL WITH OCCUPANCY SENSORS, VACANCY SENSORS, DAYLIGHT SENSORS, WALL SWITCHES, POWER PACKS, ETC. SHOWN OR NOT SHOWN ON THE FLOOR PLAN ARE DIAGRAMMATIC ONLY. LIGHTING CONTROL SYSTEM DEVICES SHALL BE AS REQUIRED BY THE LIGHTING CONTROLS MANUFACTURER AND COORDINATE WITH THEIR SHOP DRAWINGS. INDICATED QUANTITIES, TYPES AND LOCATIONS OF DEVICES SHOWN ON THE LIGHTING CONTROL SHOP DRAWINGS SHALL SUPERCEDE DEVICES INDICATED ON THIS FLOOR PLAN.
- L. PROVIDE PHOTOCELL AND TIMELOCK FOR CONTROL OF ALL EXTERIOR WALL MOUNTED FIXTURES. COORDINATE EXACT PROGRAMMING WITH OWNER.

APPARATUS BAY LIGHTING CONTROL NOTES:

- A. LIGHTING FIXTURE CONTROL WITH OCCUPANCY SENSORS, VACANCY SENSORS, DAYLIGHT SENSORS, WALL SWITCHES, POWER PACKS, ETC. SHOWN OR NOT SHOWN ON THE FLOOR PLAN ARE DIAGRAMMATIC ONLY. LIGHTING CONTROL SYSTEM DEVICES SHALL BE AS REQUIRED BY THE LIGHTING CONTROLS MANUFACTURER AND COORDINATE WITH THEIR SHOP DRAWINGS. INDICATED QUANTITIES, TYPES AND LOCATIONS OF DEVICES SHOWN ON THE LIGHTING CONTROL SHOP DRAWINGS SHALL SUPERCEDE DEVICES INDICATED ON THIS FLOOR PLAN.
- B. PROVIDE ONE POWER PACK PER ROW OF LIGHTING FIXTURES. CONNECT TO CIRCUIT INDICATED ON FIXTURES. ALL FIXTURES IN ALL ROWS SHALL TURN ON/OFF TOGETHER.
- C. PROVIDE WEATHERPROOF PUSHBUTTON FOR APPARATUS BAY. SHOWN AS SWITCHES ON PLAN. ALL APPARATUS BAY PUSHBUTTON CONTROLS SHALL CONTROL ALL APPARATUS BAY FIXTURES.
- D. PROVIDE HIGHBAY DUAL-TECH OCCUPANCY SENSORS TO COVER APPARATUS BAY. SENSORS SHALL BE LOCATED SUCH THAT THE OPERATION OF THE BAY ROLL UP DOORS SHALL TRIGGER THE LIGHTING FIXTURES TO TURN ON.
- E. PROVIDE DMX RGB CONTROLLER IN MAIN ELECTRICAL ROOM. RGB CONTROLLER SHALL HAVE PROGRAMMABLE PRESETS. COORDINATE PROGRAMMING WITH OWNER.
- F. PROVIDE A COMPLETE SYSTEM CAPABLE OF BEING AUTOMATICALLY SWITCHING THE RGB LIGHTING FROM "WHITE" PRESET TO "RED" PRESET AT A PROGRAMMED TIME. PROVIDE COMPATIBLE ASTRONOMICAL TIME CLOCK. COORDINATE PROGRAMMING WITH OWNER.
- G. SYSTEM SHALL TURN ON APPARATUS BAY LIGHTING FIXTURES WHEN ALERT SYSTEM ACTIVATES. PROVIDE REQUIRED EQUIPMENT TO INTERFACE WITH ALERT SYSTEM.

LIGHTING KEYNOTES

1. PROVIDE OCCUPANCY SENSOR FOR CONTROL OF LIGHTING FIXTURES AND TO INTERFACE WITH HVAC CONTROLS FOR THIS SPACE.
2. PROVIDE 2 RELAY OCCUPANCY SENSOR FOR CONTROL OF LIGHTING FIXTURES, CEILING FAN, AND TO INTERFACE WITH HVAC CONTROLS FOR THIS SPACE (ON LIGHTING RELAY).
3. PROVIDE OCCUPANCY SENSOR FOR CONTROL OF LIGHTING FIXTURES AND TO INTERFACE WITH HVAC CONTROLS FOR THIS SPACE. SHALL BE CONFIGURED TO ACT AS THREE-WAY SWITCHES FOR THIS ROOM.
4. PROVIDE DIGITAL TIMER SWITCH FOR CONTROL OF LIGHTING FIXTURES AND TO INTERFACE WITH HVAC CONTROLS FOR THIS SPACE. SHALL BE INTERMATIC ST01 OR APPROVED EQUAL.

1 FLOOR PLAN - FIRST FLOOR - LIGHTING

1/4" = 1'-0"

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024

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**FLOOR PLAN - FIRST FLOOR
- LIGHTING**



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



9510 Corkscrew Palms
Circle, Unit 1
Estero, FL 33928
voice (239) 208-4846

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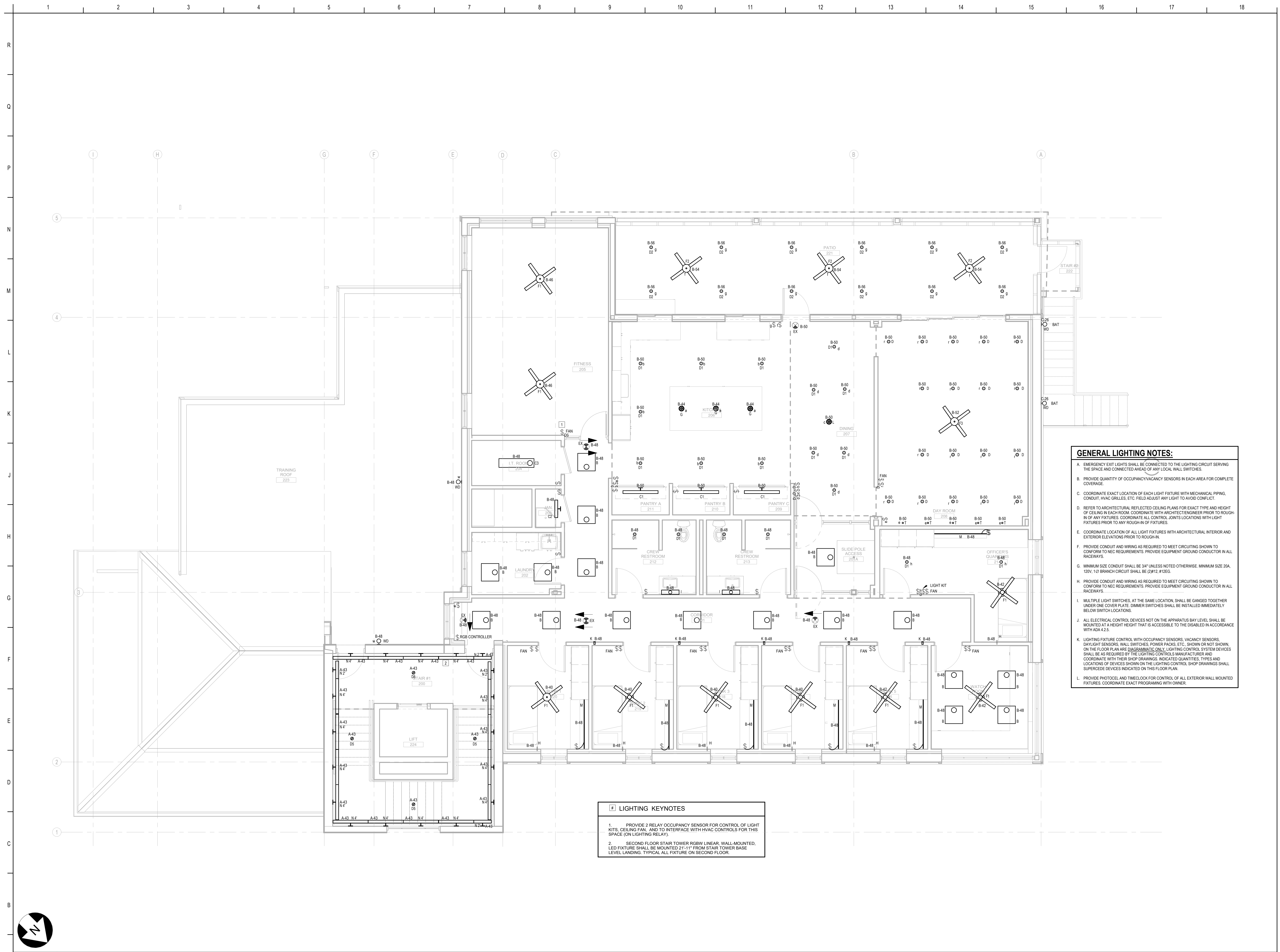
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HYRANOWSKI, LAKSOS, P.E.
6816 OHLAND AVE.
MARIETTA, GA 30067
FL REG. NO. 16966

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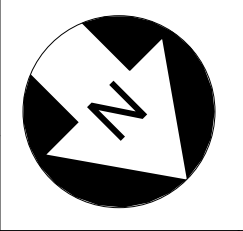


GENERAL LIGHTING NOTES:

- EMERGENCY EXIT LIGHTS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT SERVING THE SPACE AND CONNECTED AHEAD OF ANY LOCAL WALL SWITCHES.
- PROVIDE QUANTITY OF OCCUPANCY/VACANCY SENSORS IN EACH AREA FOR COMPLETE COVERAGE.
- COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GRILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINTS LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
- COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
- PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
- MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE. MINIMUM SIZE 20A, 120V, 1Ø BRANCH CIRCUIT SHALL BE #12, #12EG.
- PROVIDE CONDUIT AND WIRING AS REQUIRED TO MEET CIRCUITING SHOWN TO CONFORM TO NEC REQUIREMENTS. PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS.
- MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
- ALL ELECTRICAL CONTROL DEVICES NOT ON THE APPARATUS BAY LEVEL SHALL BE MOUNTED AT A HEIGHT THAT IS ACCESSIBLE TO THE DISABLED IN ACCORDANCE WITH ADA 4.2.5.
- LIGHTING FIXTURE CONTROL WITH OCCUPANCY SENSORS, VACANCY SENSORS, DAYLIGHT SENSORS, WALL SWITCHES, POWER PACKS, ETC. SHOWN OR NOT SHOWN, ON THE FLOOR PLAN ARE DIAGRAMMATIC ONLY. LIGHTING CONTROL SYSTEM DEVICES SHALL BE AS REQUIRED BY THE LIGHTING CONTROLS MANUFACTURER AND COORDINATE WITH THEIR SHOP DRAWINGS. INDICATED QUANTITIES, TYPES AND LOCATIONS OF DEVICES SHOWN ON THE LIGHTING CONTROL SHOP DRAWINGS SHALL SUPERCEDE DEVICES INDICATED ON THIS FLOOR PLAN.
- PROVIDE PHOTOCEL AND TIMELOCK FOR CONTROL OF ALL EXTERIOR WALL MOUNTED FIXTURES. COORDINATE EXACT PROGRAMMING WITH OWNER.

LIGHTING KEYNOTES

- PROVIDE 2 RELAY OCCUPANCY SENSOR FOR CONTROL OF LIGHT KITS, CEILING FAN, AND TO INTERFACE WITH HVAC CONTROLS FOR THIS SPACE (ON LIGHTING RELAY).
- SECOND FLOOR STAIR TOWER RGBW LINEAR, WALL MOUNTED, LED FIXTURE SHALL BE MOUNTED 21" FROM STAIR TOWER BASE LEVEL LANDING. TYPICAL ALL FIXTURE ON SECOND FLOOR.



1 FLOOR PLAN - SECOND FLOOR - LIGHTING

1/4" = 1'-0"

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
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FLOOR PLAN - SECOND FLOOR - LIGHTING

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2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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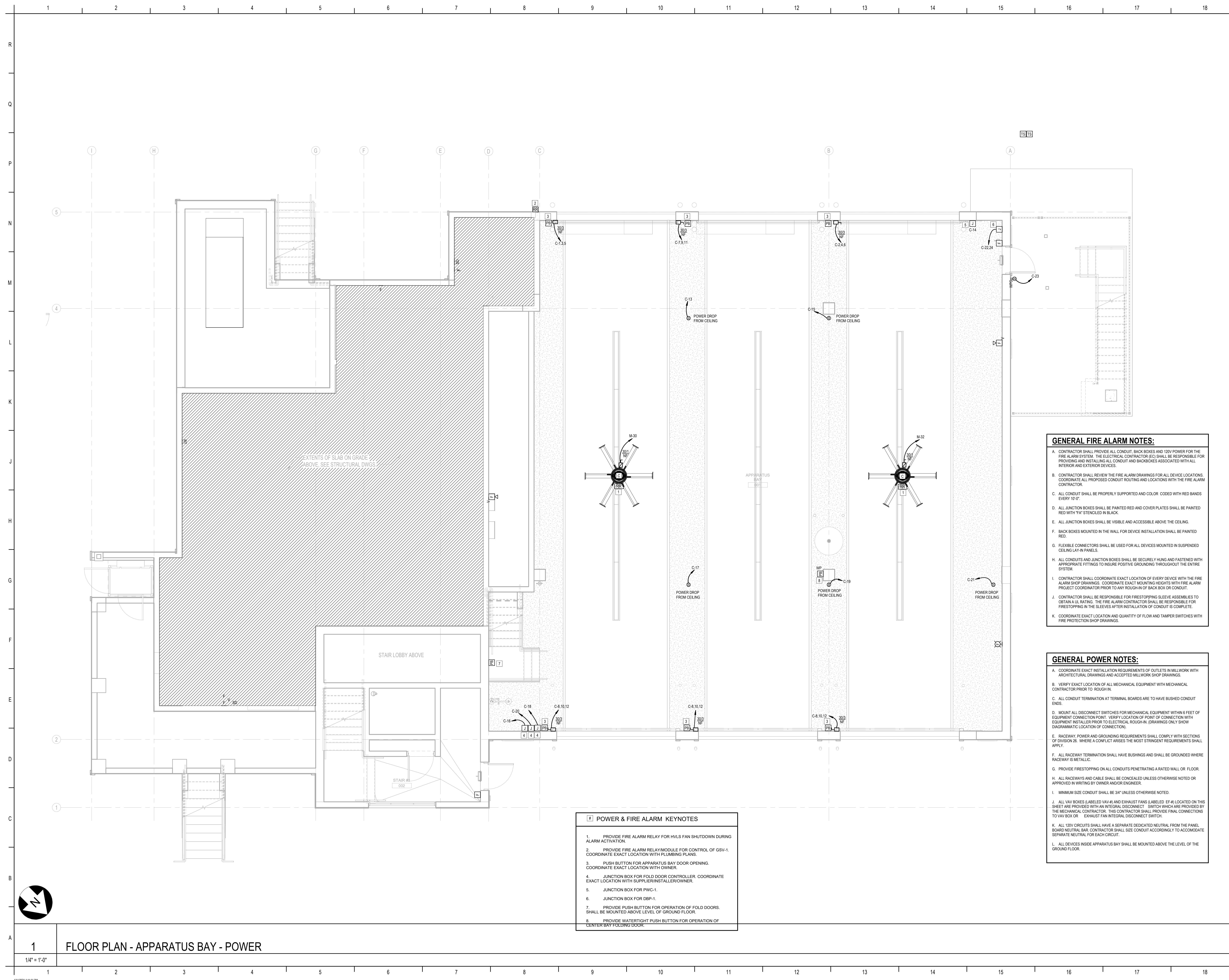


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6015 9th Avenue NE
Miami, FL 33151
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REVISIONS

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GENERAL FIRE ALARM NOTES:

A. CONTRACTOR SHALL PROVIDE ALL CONDUIT, BACK BOXES AND 120V POWER FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH ALL INTERIOR AND EXTERIOR DEVICES.

B. CONTRACTOR SHALL REVIEW THE FIRE ALARM DRAWINGS FOR ALL DEVICE LOCATIONS. COORDINATE ALL PROPOSED CONDUIT ROUTING AND LOCATIONS WITH THE FIRE ALARM CONTRACTOR.

C. ALL CONDUIT SHALL BE PROPERLY SUPPORTED AND COLOR CODED WITH RED BANDS EVERY 10'-0".

D. ALL JUNCTION BOXES SHALL BE PAINTED RED AND COVER PLATES SHALL BE PAINTED RED WITH "X" STENCILED IN BLACK.

E. ALL JUNCTION BOXES SHALL BE VISIBLE AND ACCESSIBLE ABOVE THE CEILING.

F. BACK BOXES MOUNTED IN THE WALL FOR DEVICE INSTALLATION SHALL BE PAINTED RED.

G. FLEXIBLE CONNECTORS SHALL BE USED FOR ALL DEVICES MOUNTED IN SUSPENDED CEILING LAY-IN PANELS.

H. ALL CONDUITS AND JUNCTION BOXES SHALL BE SECURELY HUNG AND FASTENED WITH APPROPRIATE FITTINGS TO INSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE SYSTEM.

I. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EVERY DEVICE WITH THE FIRE ALARM SHOP DRAWINGS. COORDINATE EXACT MOUNTING HEIGHTS WITH FIRE ALARM PROJECT COORDINATOR PRIOR TO ANY ROUGH-IN OF BACK BOX OR CONDUIT.

J. CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING IN THE SLEEVES AFTER INSTALLATION OF CONDUIT IS COMPLETE.

K. COORDINATE EXACT LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS.

GENERAL POWER NOTES:

A. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.

B. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

C. ALL CONDUIT TERMINATION AT TERMINAL BOARDS ARE TO HAVE BUSHED CONDUIT ENDS.

D. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FEET OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).

E. RACEWAY, POWER AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26. WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

F. ALL RACEWAY TERMINATION SHALL HAVE BUSHINGS AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.

G. PROVIDE FIRESTOPPING ON ALL CONDUITS PENETRATING A RATED WALL OR FLOOR.

H. ALL RACEWAYS AND CABLE SHALL BE CONCEALED UNLESS OTHERWISE NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.

I. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.

J. ALL VAV BOXES (LABELED VAV-#) AND EXHAUST FANS (LABELED EF-#) LOCATED ON THIS SHEET ARE PROVIDED WITH AN INTEGRAL DISCONNECT SWITCH WHICH ARE PROVIDED BY THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO VAV BOX OR EXHAUST FAN INTEGRAL DISCONNECT SWITCH.

K. ALL 120V CIRCUITS SHALL HAVE A SEPARATE DEDICATED NEUTRAL FROM THE PANEL BOARD NEUTRAL BAR. CONTRACTOR SHALL SIZE CONDUIT ACCORDINGLY TO ACCOMMODATE SEPARATE NEUTRAL FOR EACH CIRCUIT.

L. ALL DEVICES INSIDE APPARATUS BAY SHALL BE MOUNTED ABOVE THE LEVEL OF THE GROUND FLOOR.

- POWER & FIRE ALARM KEYNOTES**
1. PROVIDE FIRE ALARM RELAY FOR HVLS FAN SHUTDOWN DURING ALARM ACTIVATION.
 2. PROVIDE FIRE ALARM RELAY/MODULE FOR CONTROL OF GSV-1. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.
 3. PUSH BUTTON FOR APPARATUS BAY DOOR OPENING. COORDINATE EXACT LOCATION WITH OWNER.
 4. JUNCTION BOX FOR FOLD DOOR CONTROLLER. COORDINATE EXACT LOCATION WITH SUPPLIER/INSTALLER/OWNER.
 5. JUNCTION BOX FOR PWC-1.
 6. JUNCTION BOX FOR DBP-1.
 7. PROVIDE PUSH BUTTON FOR OPERATION OF FOLD DOORS. SHALL BE MOUNTED ABOVE LEVEL OF GROUND FLOOR.
 8. PROVIDE WATERTIGHT PUSH BUTTON FOR OPERATION OF CENTER BAY FOLDING DOOR.

1 FLOOR PLAN - APPARATUS BAY - POWER

1/4" = 1'-0"

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**FLOOR PLAN - APPARATUS
BAY - POWER**

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2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

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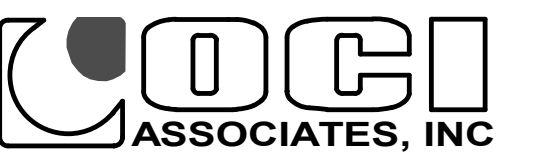
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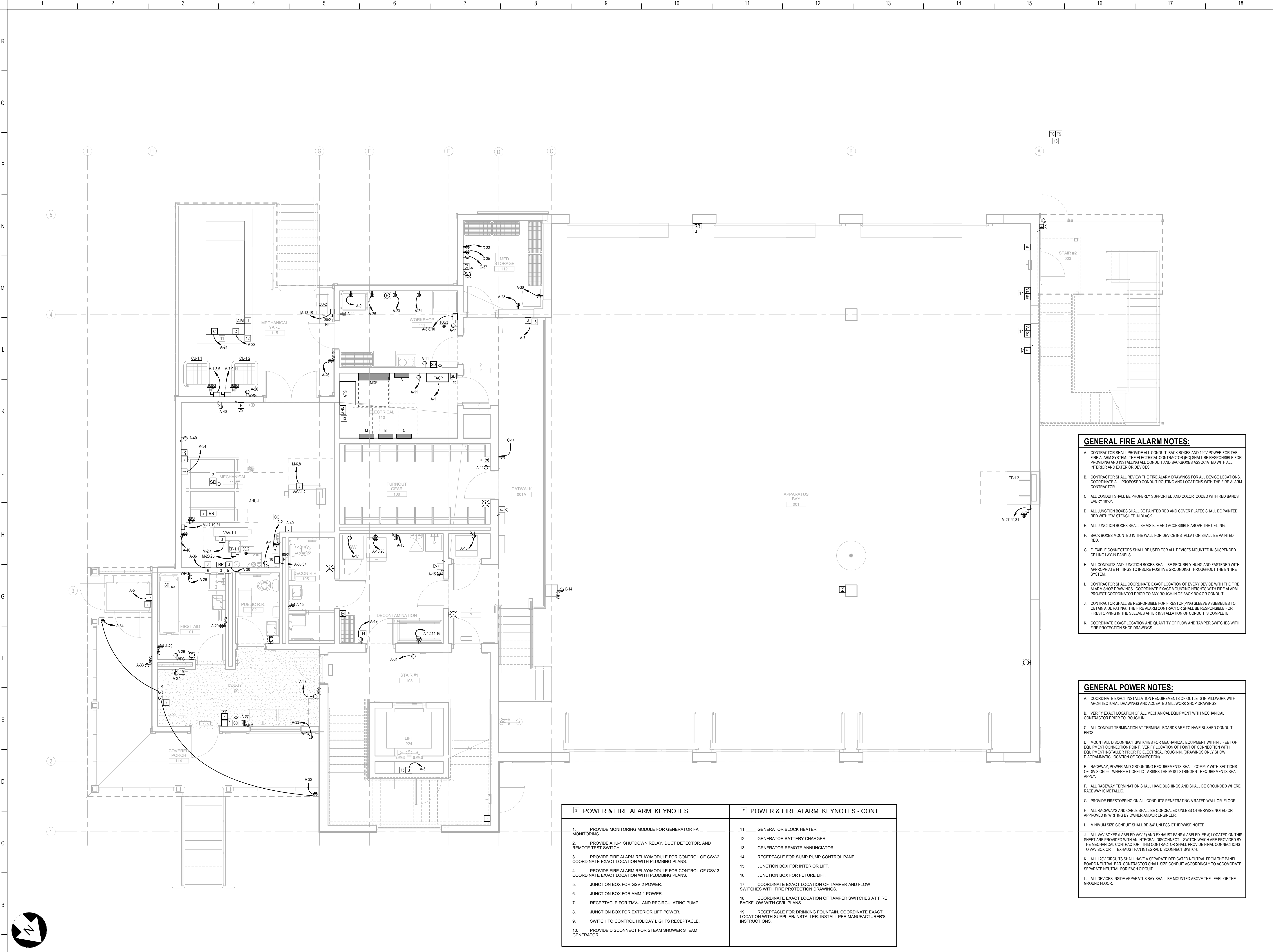
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MARK	DESCRIPTION	DATE

- GENERAL FIRE ALARM NOTES:**
- CONTRACTOR SHALL PROVIDE ALL CONDUIT, BACK BOXES AND 120V POWER FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH ALL INTERIOR AND EXTERIOR DEVICES.
 - CONTRACTOR SHALL REVIEW THE FIRE ALARM DRAWINGS FOR ALL DEVICE LOCATIONS. COORDINATE ALL PROPOSED CONDUIT ROUTING AND LOCATIONS WITH THE FIRE ALARM CONTRACTOR.
 - ALL CONDUIT SHALL BE PROPERLY SUPPORTED AND COLOR CODED WITH RED BANDS EVERY 12".
 - ALL JUNCTION BOXES SHALL BE PAINTED RED AND COVER PLATES SHALL BE PAINTED RED WITH "FA" STENCILED IN BLACK.
 - ALL JUNCTION BOXES SHALL BE VISIBLE AND ACCESSIBLE ABOVE THE CEILING.
 - BACK BOXES MOUNTED IN THE WALL FOR DEVICE INSTALLATION SHALL BE PAINTED RED.
 - FLEXIBLE CONNECTORS SHALL BE USED FOR ALL DEVICES MOUNTED IN SUSPENDED CEILING LAY-IN PANELS.
 - ALL CONDUITS AND JUNCTION BOXES SHALL BE SECURELY HUNG AND FASTENED WITH APPROPRIATE FITTINGS TO INSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE SYSTEM.
 - CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EVERY DEVICE WITH THE FIRE ALARM SHOP DRAWINGS. COORDINATE EXACT MOUNTING HEIGHTS WITH FIRE ALARM PROJECT COORDINATOR PRIOR TO ANY ROUGH-IN OF BACK BOX OR CONDUIT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING IN THE SLEEVES AFTER INSTALLATION OF CONDUIT IS COMPLETE.
 - COORDINATE EXACT LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS.

- GENERAL POWER NOTES:**
- COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
 - VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - ALL CONDUIT TERMINATION AT TERMINAL BOARDS ARE TO HAVE BUSHED CONDUIT ENDS.
 - MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FEET OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).
 - RACEWAY, POWER AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26, WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
 - ALL RACEWAY TERMINATION SHALL HAVE BUSHINGS AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.
 - PROVIDE FIRESTOPPING ON ALL CONDUITS PENETRATING A RATED WALL OR FLOOR.
 - ALL RACEWAYS AND CABLE SHALL BE CONCEALED UNLESS OTHERWISE NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
 - MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
 - ALL VAV BOXES (LABELED VAV-#) AND EXHAUST FANS (LABELED EF-#) LOCATED ON THIS SHEET ARE PROVIDED WITH AN INTEGRAL DISCONNECT SWITCH WHICH ARE PROVIDED BY THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO VAV BOX OR EXHAUST FAN INTEGRAL DISCONNECT SWITCH.
 - ALL 120V CIRCUITS SHALL HAVE A SEPARATE DEDICATED NEUTRAL FROM THE PANEL BOARD NEUTRAL BAR. CONTRACTOR SHALL SIZE CONDUIT ACCORDINGLY TO ACCOMMODATE SEPARATE NEUTRAL FOR EACH CIRCUIT.
 - ALL DEVICES INSIDE APPARATUS BAY SHALL BE MOUNTED ABOVE THE LEVEL OF THE GROUND FLOOR.

POWER & FIRE ALARM KEYNOTES	POWER & FIRE ALARM KEYNOTES - CONT
1. PROVIDE MONITORING MODULE FOR GENERATOR FA MONITORING.	11. GENERATOR BLOCK HEATER.
2. PROVIDE AHU-1 SHUTDOWN RELAY, DUCT DETECTOR, AND REMOTE TEST SWITCH.	12. GENERATOR BATTERY CHARGER
3. PROVIDE FIRE ALARM RELAY/MODULE FOR CONTROL OF GSV-2. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.	13. GENERATOR REMOTE ANNUNCIATOR.
4. PROVIDE FIRE ALARM RELAY/MODULE FOR CONTROL OF GSV-3. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.	14. RECEPTACLE FOR SUMP PUMP CONTROL PANEL.
5. JUNCTION BOX FOR GSV-2 POWER.	15. JUNCTION BOX FOR INTERIOR LIFT.
6. JUNCTION BOX FOR AMM-1 POWER.	16. JUNCTION BOX FOR FUTURE LIFT.
7. RECEPTACLE FOR TMV-1 AND RECIRCULATING PUMP.	17. COORDINATE EXACT LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION DRAWINGS.
8. JUNCTION BOX FOR EXTERIOR LIFT POWER.	18. COORDINATE EXACT LOCATION OF TAMPER SWITCHES AT FIRE BACKFLOW WITH CIVIL PLANS.
9. SWITCH TO CONTROL HOLIDAY LIGHTS RECEPTACLE.	19. RECEPTACLE FOR DRINKING FOUNTAIN. COORDINATE EXACT LOCATION WITH SUPPLIER/INSTALLER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
10. PROVIDE DISCONNECT FOR STEAM SHOWER STEAM GENERATOR.	



1 FLOOR PLAN - FIRST FLOOR - POWER
1/4" = 1'-0"

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**FLOOR PLAN - FIRST FLOOR
- POWER**



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
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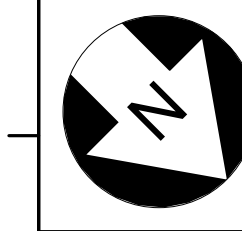
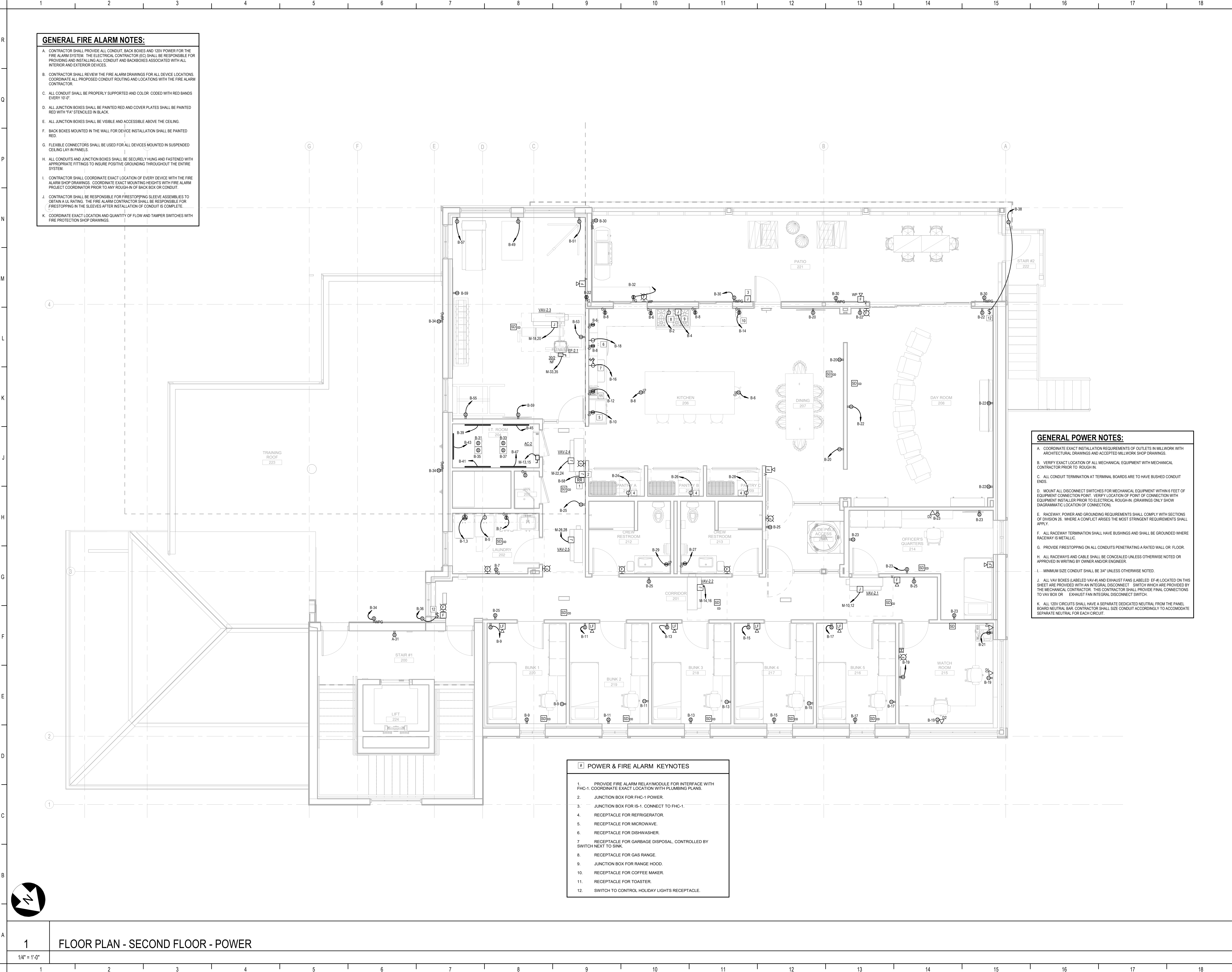
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- GENERAL FIRE ALARM NOTES:**
- CONTRACTOR SHALL PROVIDE ALL CONDUIT, BACK BOXES AND 120V POWER FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH ALL INTERIOR AND EXTERIOR DEVICES.
 - CONTRACTOR SHALL REVIEW THE FIRE ALARM DRAWINGS FOR ALL DEVICE LOCATIONS. COORDINATE ALL PROPOSED CONDUIT ROUTING AND LOCATIONS WITH THE FIRE ALARM CONTRACTOR.
 - ALL CONDUIT SHALL BE PROPERLY SUPPORTED AND COLOR CODED WITH RED BANDS EVERY 10'-0".
 - ALL JUNCTION BOXES SHALL BE PAINTED RED AND COVER PLATES SHALL BE PAINTED RED WITH "FAT" STENCILED IN BLACK.
 - ALL JUNCTION BOXES SHALL BE VISIBLE AND ACCESSIBLE ABOVE THE CEILING.
 - BACK BOXES MOUNTED IN THE WALL FOR DEVICE INSTALLATION SHALL BE PAINTED RED.
 - FLEXIBLE CONNECTORS SHALL BE USED FOR ALL DEVICES MOUNTED IN SUSPENDED CEILING LAY-IN PANELS.
 - ALL CONDUITS AND JUNCTION BOXES SHALL BE SECURELY HUNG AND FASTENED WITH APPROPRIATE FITTINGS TO INSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE SYSTEM.
 - CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EVERY DEVICE WITH THE FIRE ALARM SHOP DRAWINGS. COORDINATE EXACT MOUNTING HEIGHTS WITH FIRE ALARM PROJECT COORDINATOR PRIOR TO ANY ROUGH-IN OF BACK BOX OR CONDUIT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING IN THE SLEEVE AFTER INSTALLATION OF CONDUIT IS COMPLETE.
 - COORDINATE EXACT LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS.

- GENERAL POWER NOTES:**
- COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
 - VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - ALL CONDUIT TERMINATION AT TERMINAL BOARDS ARE TO HAVE BUSHED CONDUIT ENDS.
 - MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FEET OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION.
 - RACEWAY, POWER AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26. WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
 - ALL RACEWAY TERMINATION SHALL HAVE BUSHINGS AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.
 - PROVIDE FIRESTOPPING ON ALL CONDUITS PENETRATING A RATED WALL OR FLOOR.
 - ALL RACEWAYS AND CABLE SHALL BE CONCEALED UNLESS OTHERWISE NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
 - MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
 - ALL VAV BOXES LABELED VAV-N AND EXHAUST FANS LABELED EF-N LOCATED ON THIS SHEET ARE PROVIDED WITH AN INTEGRAL DISCONNECT SWITCH WHICH ARE PROVIDED BY THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO VAV BOX OR EXHAUST FAN INTEGRAL DISCONNECT SWITCH.
 - ALL 120V CIRCUITS SHALL HAVE A SEPARATE DEDICATED NEUTRAL FROM THE PANEL. BOARD NEUTRAL BARS. CONTRACTOR SHALL SIZE CONDUIT ACCORDINGLY TO ACCOMMODATE SEPARATE NEUTRAL FOR EACH CIRCUIT.

- POWER & FIRE ALARM KEYNOTES**
- PROVIDE FIRE ALARM RELAY/MODULE FOR INTERFACE WITH FHC-1. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.
 - JUNCTION BOX FOR FHC-1 POWER.
 - JUNCTION BOX FOR IS-1. CONNECT TO FHC-1.
 - RECEPTACLE FOR REFRIGERATOR.
 - RECEPTACLE FOR MICROWAVE.
 - RECEPTACLE FOR DISHWASHER.
 - RECEPTACLE FOR GARBAGE DISPOSAL, CONTROLLED BY SWITCH NEXT TO SINK.
 - RECEPTACLE FOR GAS RANGE.
 - JUNCTION BOX FOR RANGE HOOD.
 - RECEPTACLE FOR COFFEE MAKER.
 - RECEPTACLE FOR TOASTER.
 - SWITCH TO CONTROL HOLIDAY LIGHTS RECEPTACLE.



1 FLOOR PLAN - SECOND FLOOR - POWER

1/4" = 1'-0"

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FLOOR PLAN - SECOND FLOOR - POWER

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SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:

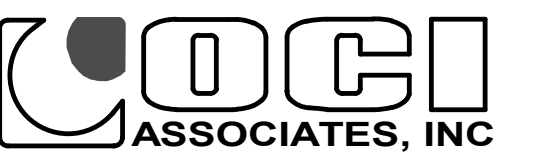
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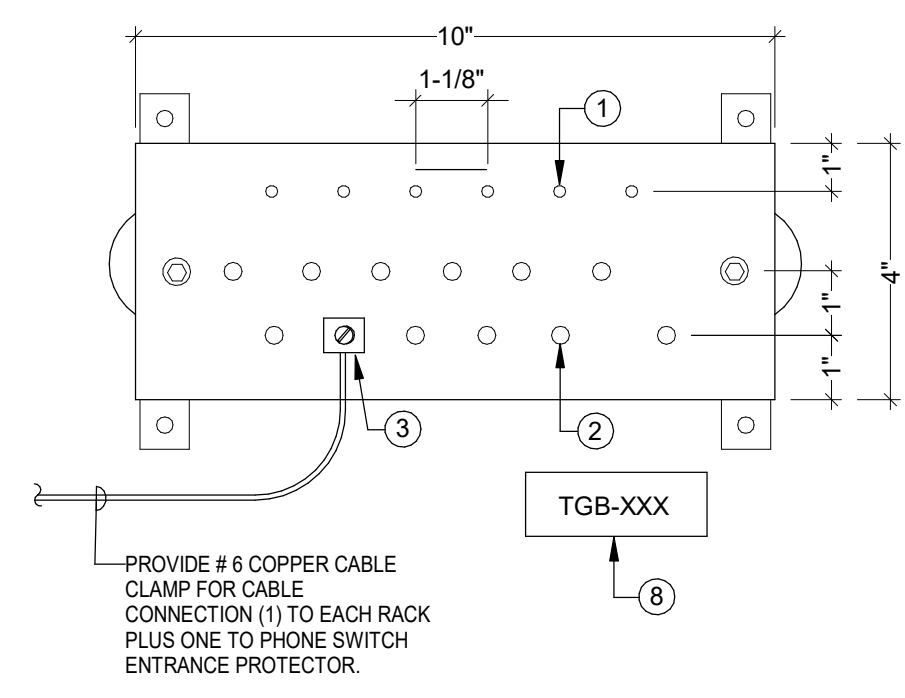
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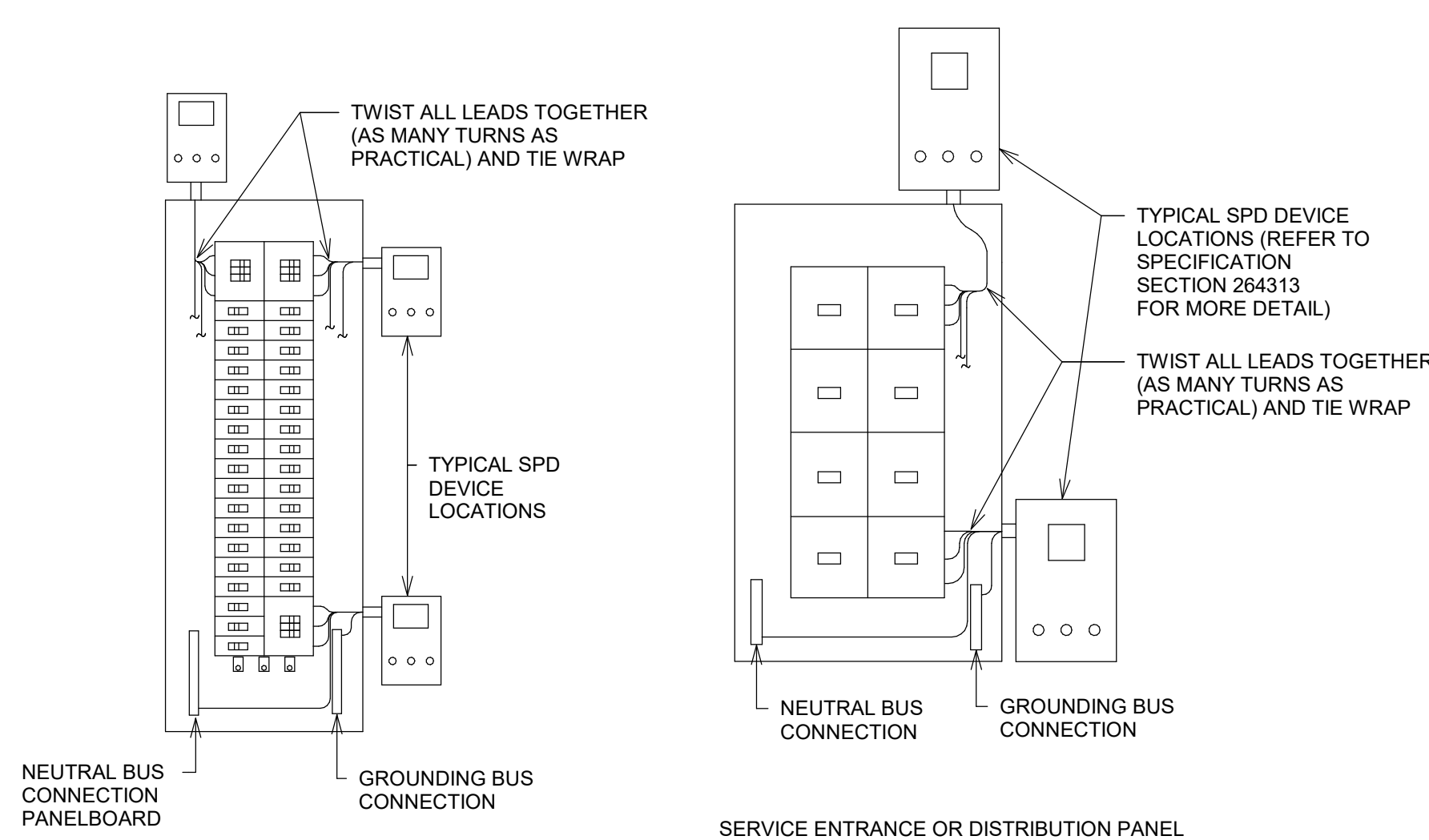
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- ALL HARDWARE (BOLTS, NUTS, WASHERS, ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
- BUSBAR SHALL BE 1/4" THICK (MINIMUM).
- INCREASE LENGTH OF BUSBAR, FOR NUMBER OF CONNECTIONS, AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.

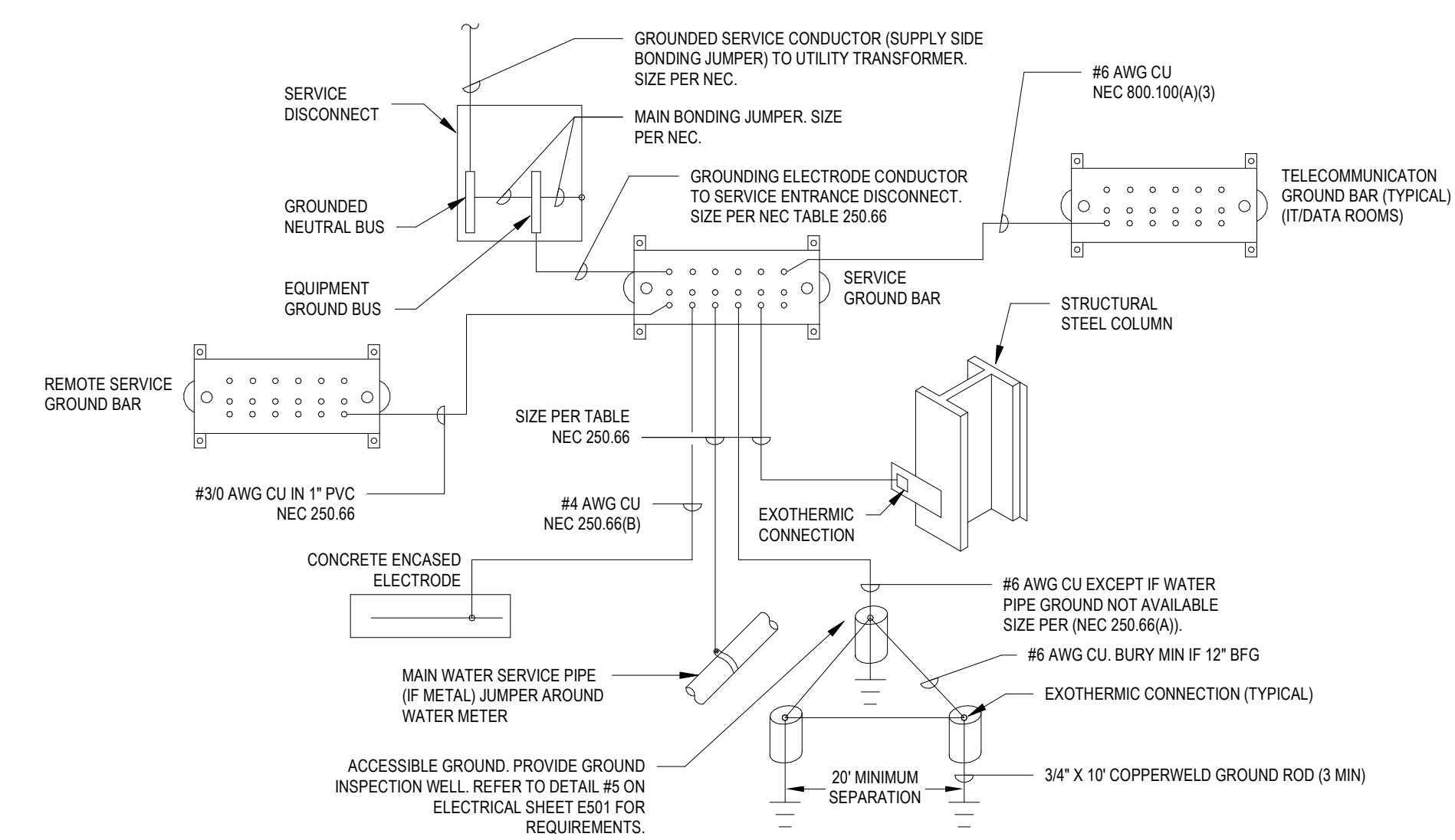
NOTE

- #6/32 (TYPICAL)
- #9/32 (TYPICAL)
- PROVIDE COPPER CABLE CLAMPS FOR CABLE CONNECTIONS (BY DIV. 16).
- STANDOFF BRACKET
- INSULATOR
- CADWELD544A018 OR EQUAL
- COPPER BUSBAR
- PROVIDE WHITE CORE BAKELITE NAMEPLATE FASTENED TO A WALL SURFACE BELOW BUSBAR AT EACH FLOOR, WITH DESIGNATION ENGRAVED THEREON IN 1/2" HIGH LETTERS.

1 TYPICAL GROUND BUS BAR DETAIL
N.T.S.



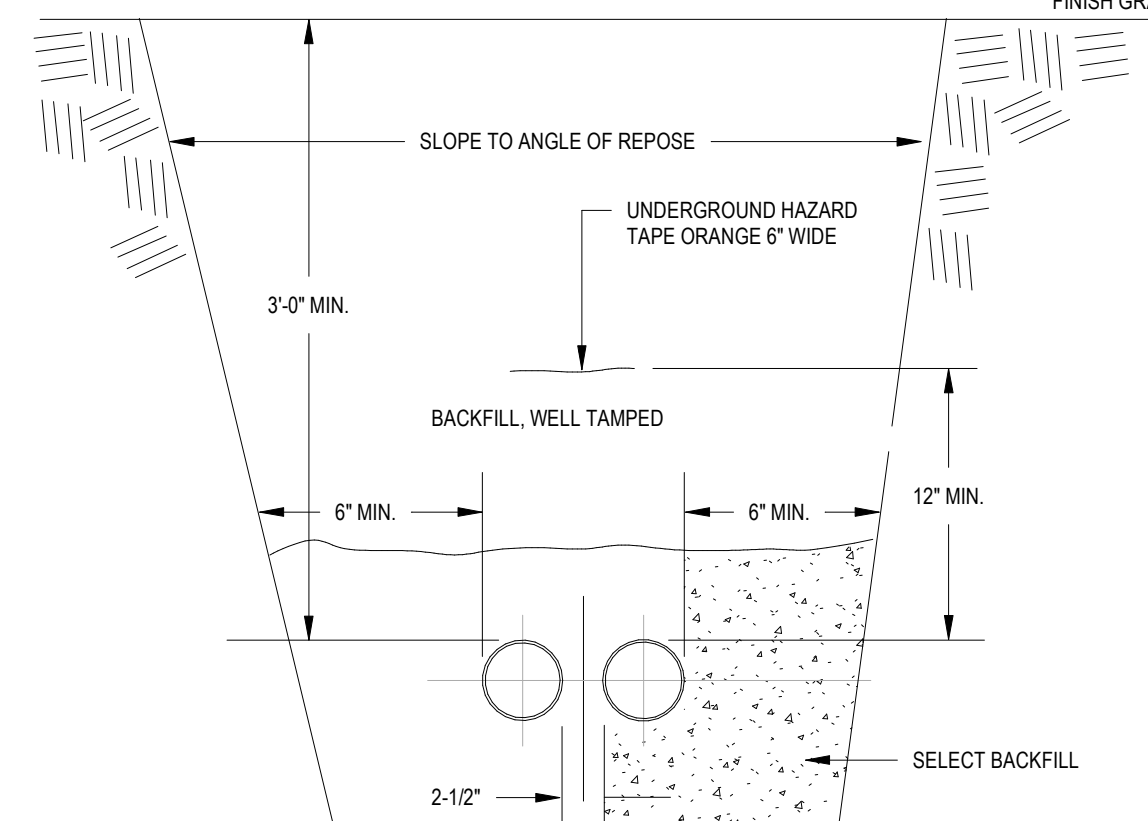
2 SPD INSTALLATION DETAIL
N.T.S.



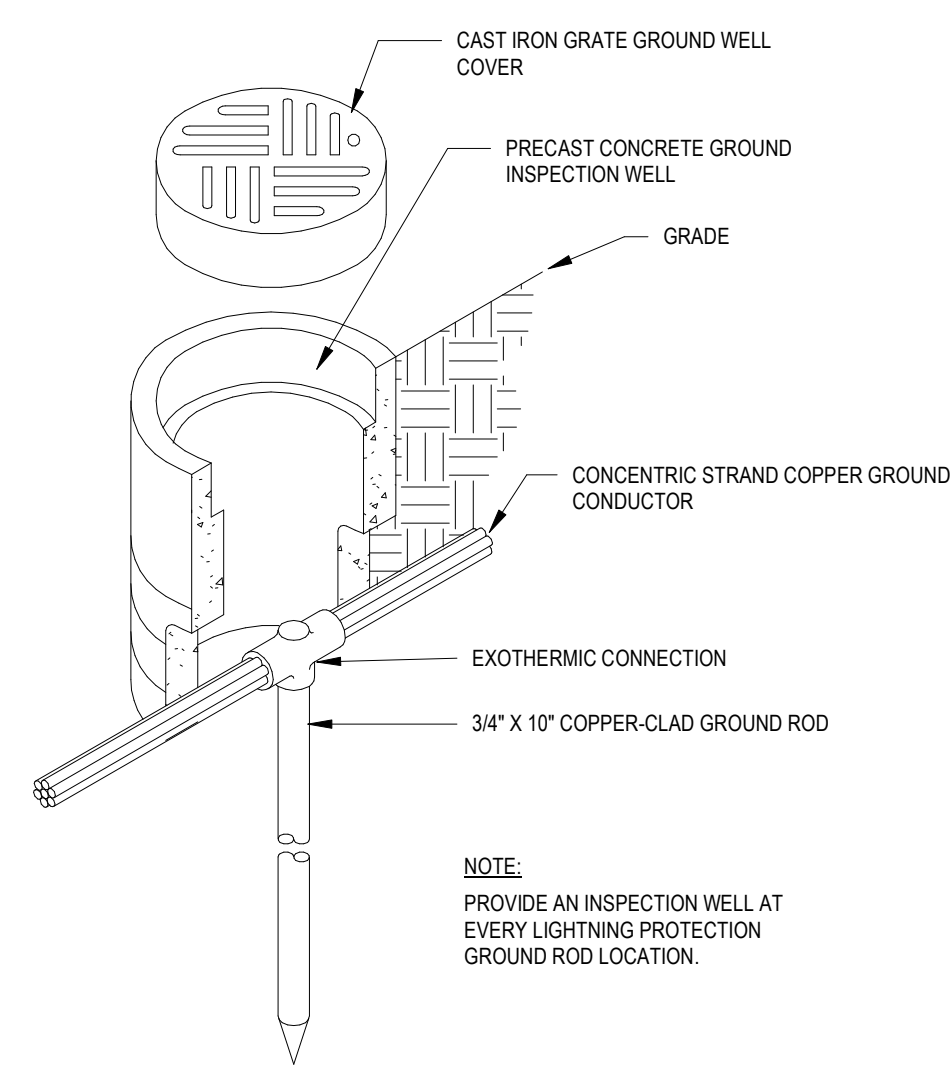
NOTES:

- BOND ALL GROUNDING ELECTRODES PER NEC ART. 250.
- ALL GROUNDING ELECTRODES SPECIFIED IN NEC 250.52(A)(1) THRU (A)(7) THAT ARE PRESENT ON SITE SHALL BE BONDED TOGETHER AND USED. IF NONE OF THESE GROUNDING ELECTRODES ARE PRESENT, ONE OR MORE OF THE "BASIC" ELECTRODES SPECIFIED IN NEC 250.52(A)(1) THRU (A)(8) SHALL BE INSTALLED AND USED.
- PROVIDE GROUND ROD SYSTEM IN TRIAD FORMATION AS INDICATED.
- DRIVE GROUND RODS FULL LENGTH INTO GROUND. TOP OF ROD TO 12" MIN BELOW FINISHED GRADE.
- ALL METAL PIPING SYSTEMS AND EXPOSED STRUCTURAL METAL SHALL BE BONDED PER NEC 250.104.
- INTERSYSTEM BONDING SHALL COMPLY WITH NEC 250.94.

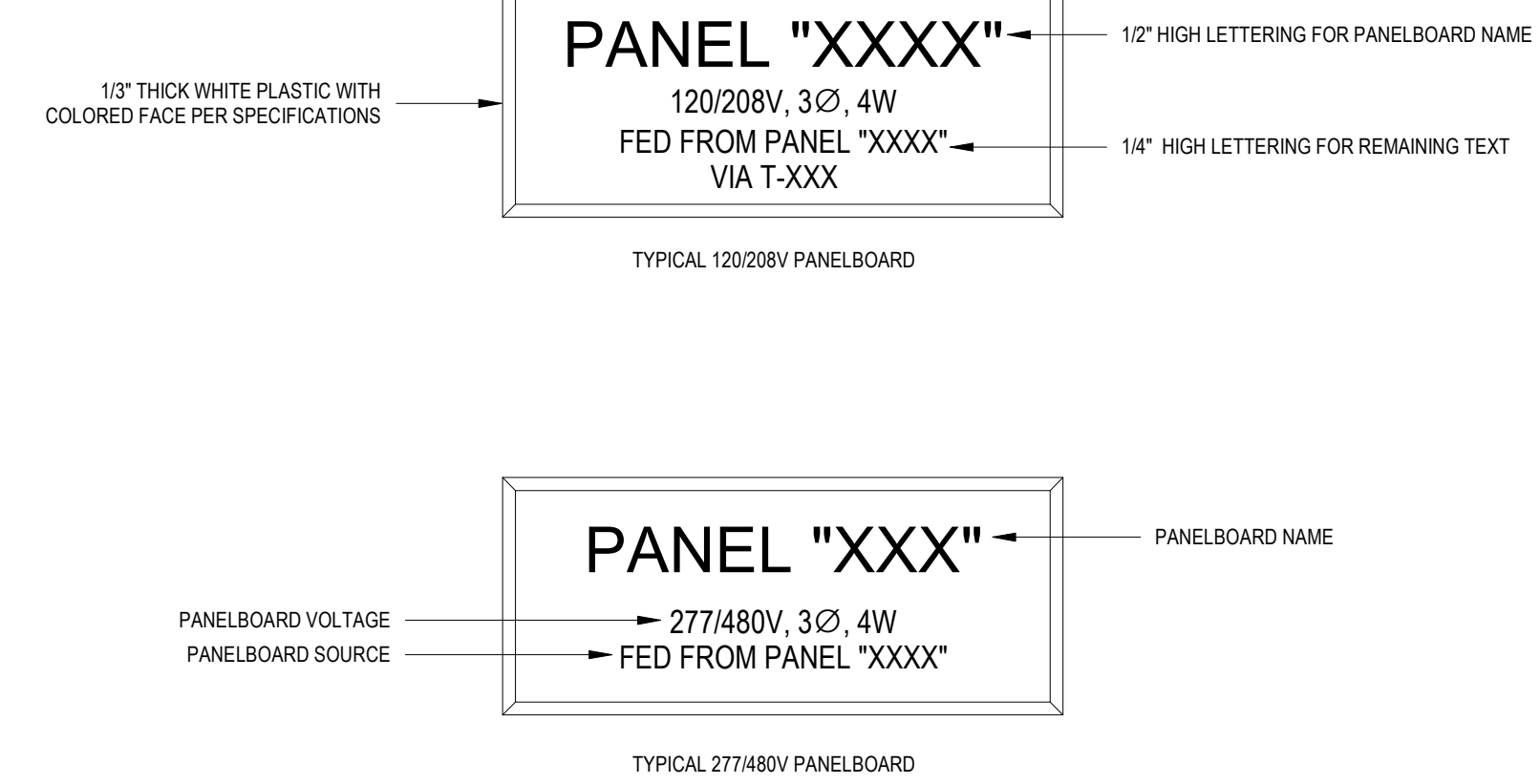
3 SERVICE GROUNDING DETAIL
NTS



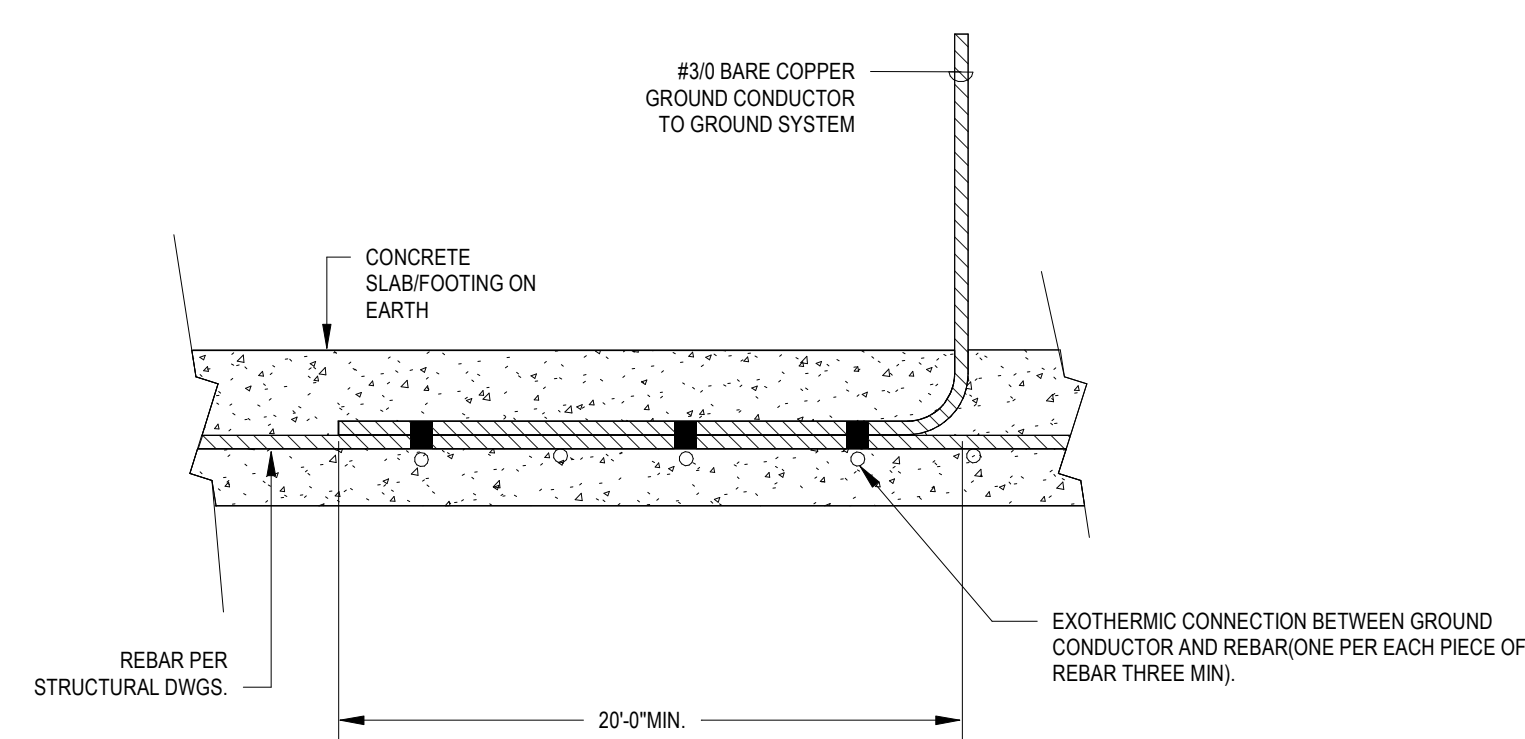
4 CONDUIT TRENCH DETAIL
NTS



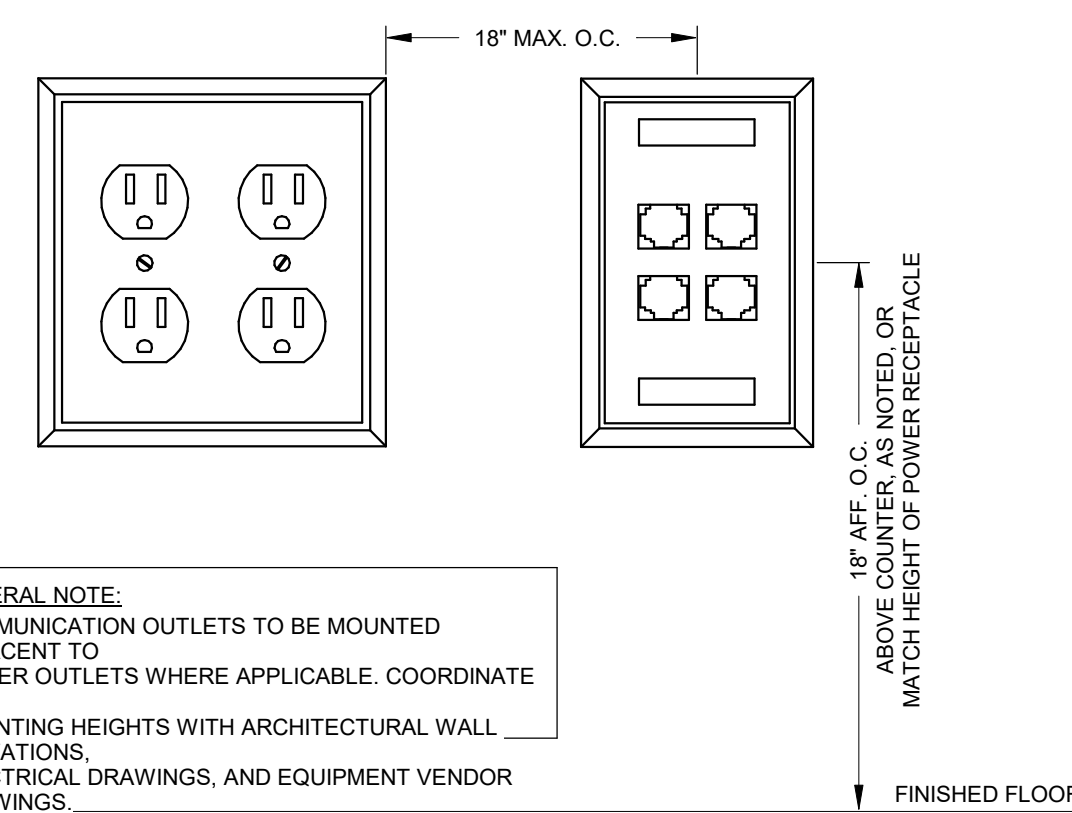
5 GROUND INSPECTION WELL
NTS



6 PANELBOARD NAMEPLATE
NTS



7 TYPICAL CONCRETE ENCASED ELECTRODE
NTS



GENERAL NOTE:
COMMUNICATION OUTLETS TO BE MOUNTED ADJACENT TO POWER OUTLETS WHERE APPLICABLE. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECTURAL WALL ELEVATIONS, ELECTRICAL DRAWINGS, AND EQUIPMENT VENDOR DRAWINGS.

8 POWER OUTLET COORDINATION REQUIREMENTS
N.T.S.



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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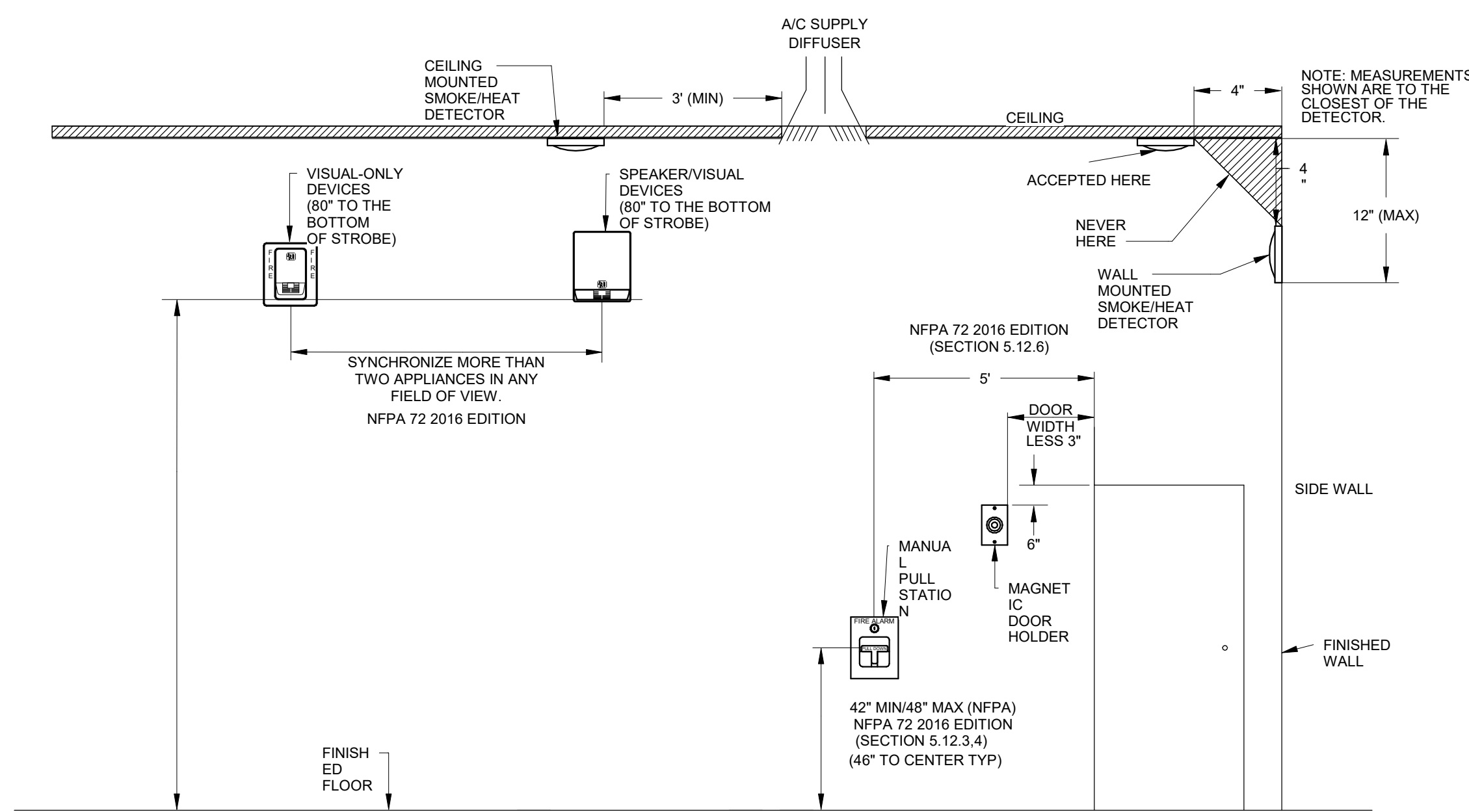
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ISSUE DATE: 01.05.2024
DRAWN BY: Author

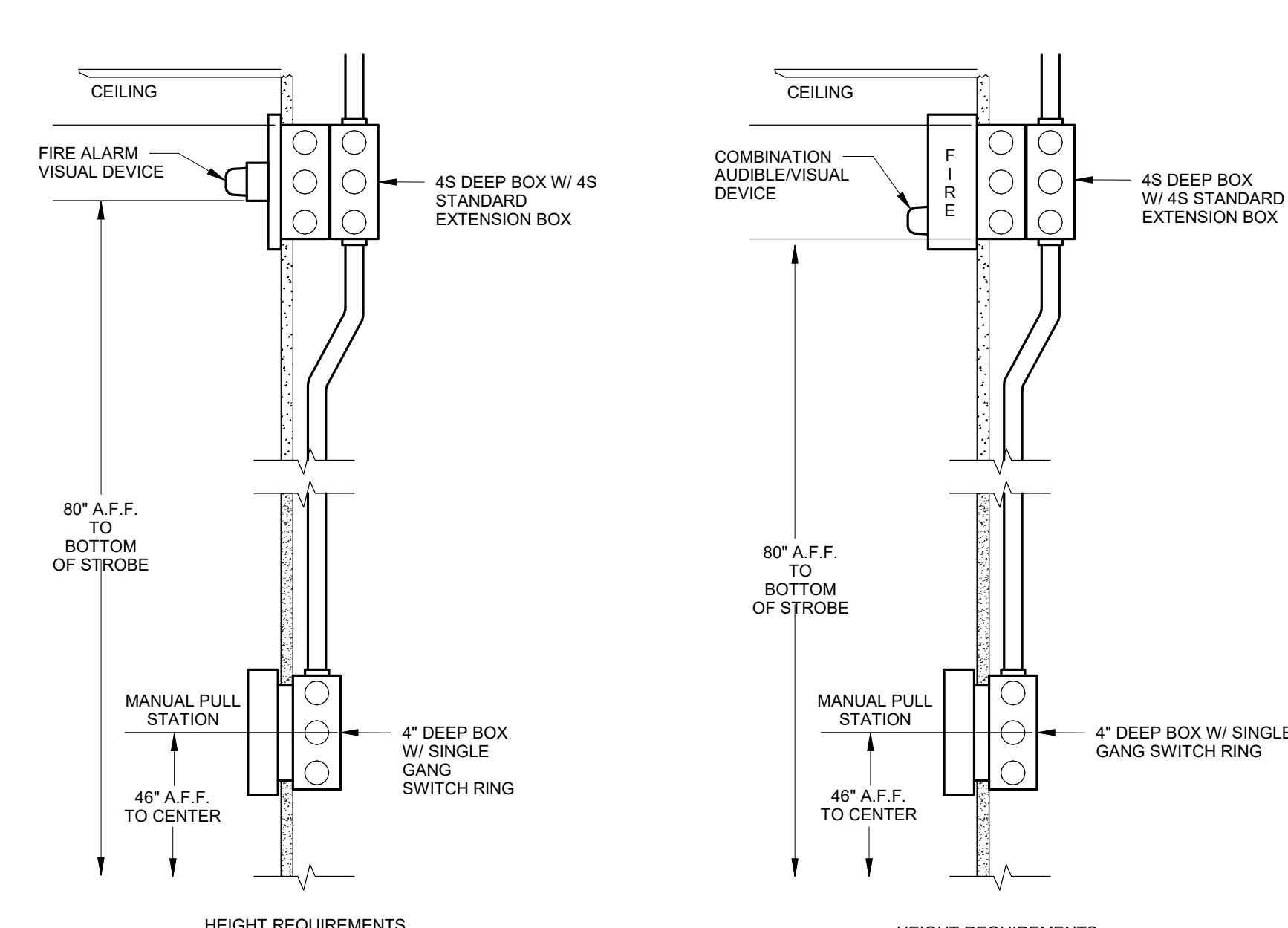
DETAILS - FIRE ALARM

E502

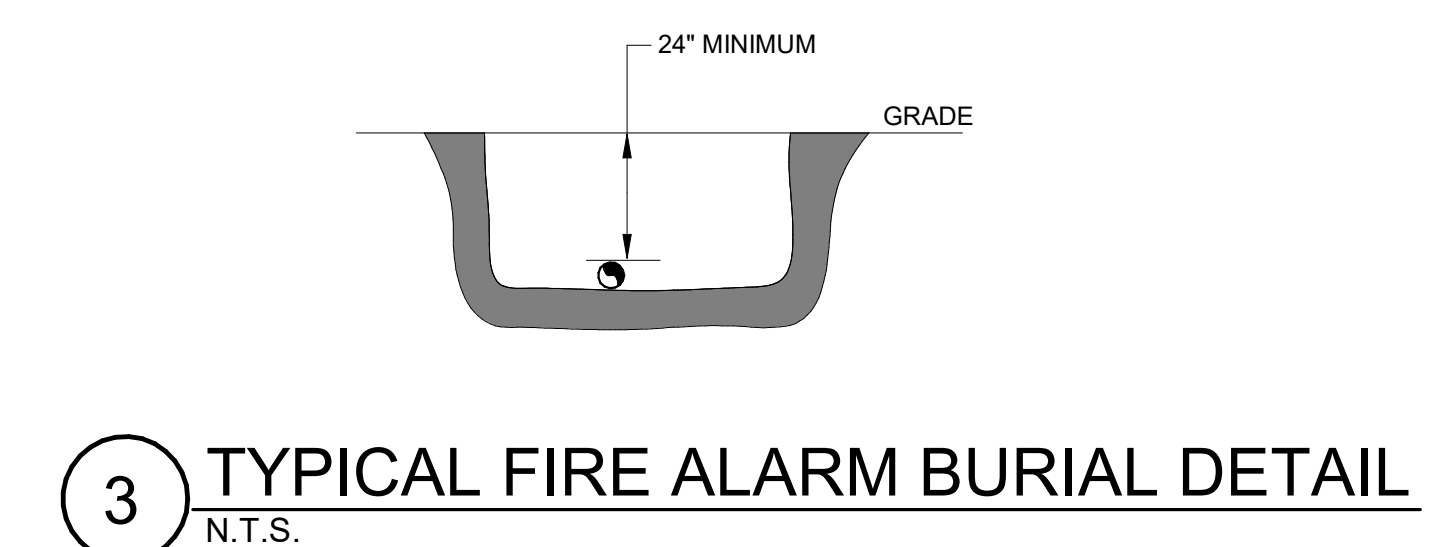
100% CONSTRUCTION DOCUMENTS



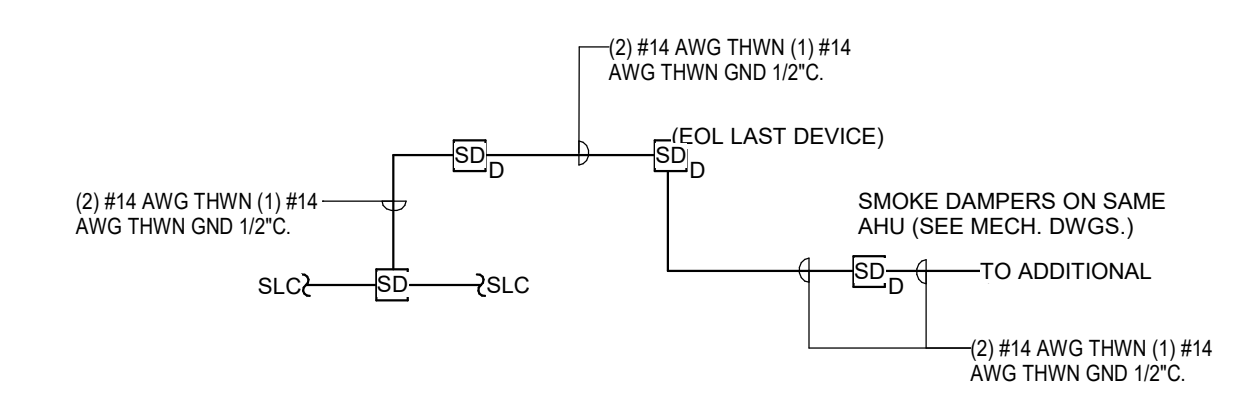
1 FIRE ALARM DEVICE MOUNTING HEIGHTS DETAIL
N.T.S.



2 WALL MOUNTED FIRE ALARM DEVICE MOUNTING ELEVATIONS
N.T.S.



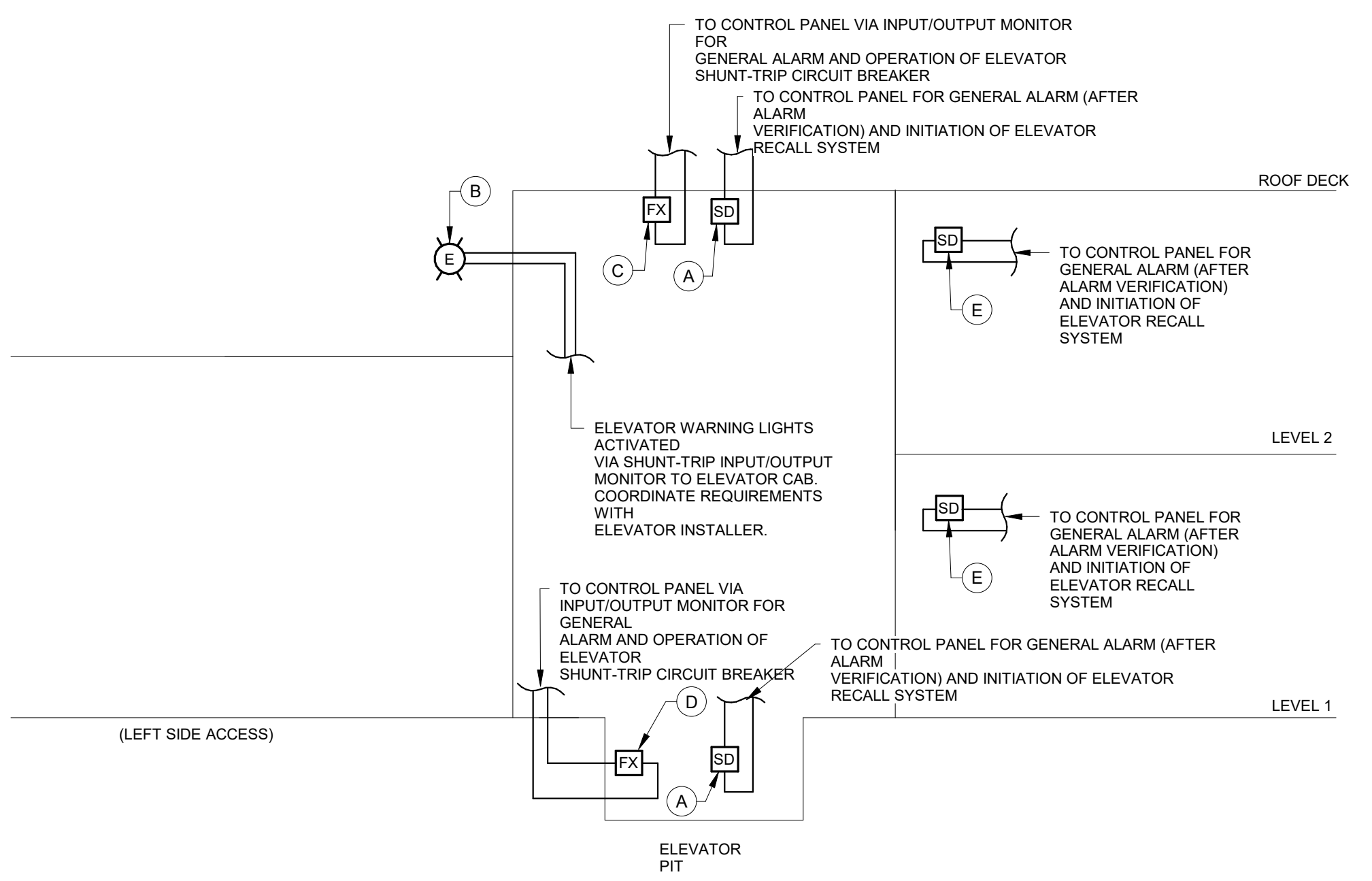
3 TYPICAL FIRE ALARM BURIAL DETAIL
N.T.S.



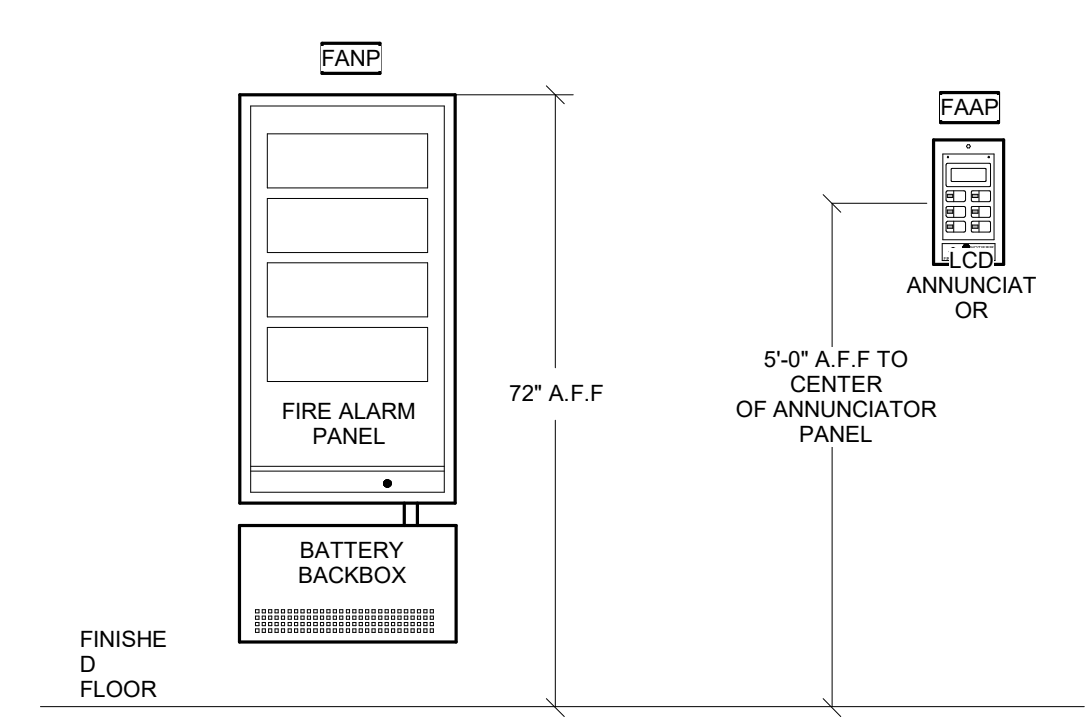
4 TYPICAL DUCT SMOKE DETECTOR SUPERVISION DIAGRAM
N.T.S.

- LEGEND**
- (A) SMOKE DETECTOR MOUNTED AT TOP AND BOTTOM OF ELEVATOR SHAFT.
 - (B) FLASHING WARNING LIGHT "DO NOT USE ELEVATOR" LOCATED WITHIN THE ELEVATOR CAB. COORDINATED EXACT WIRE TERMINATION LOCATION WITH THE ELEVATOR CONTRACTOR.
 - (C) 160° F FIXED TEMPERATURE CEILING MOUNTED HEAT DETECTOR AT THE TOP OF THE ELEVATOR SHAFT. ONE DETECTOR REQUIRED FOR EACH SPRINKLER HEAD WITHIN THE SHAFT. HEAT DETECTOR SHALL BE LOCATED WITHIN TWO FEET OF SPRINKLER HEAD.
 - (D) 136° F RATE-OF-RISE WALL MOUNTED HEAT DETECTOR IN ELEVATOR PIT.
 - (E) CEILING MOUNTED SMOKE DETECTOR IN ELEVATOR LOBBY.

- NOTES**
1. DERIVE POWER FOR FLASHING WARNING LIGHTS FROM VISUAL ALARM CIRCUIT IN FIRE ALARM CONTROL PANEL.
 2. INITIATION OF ELEVATOR LOBBY, TOP OF SHAFT, OR BOTTOM OF SHAFT. SMOKE DETECTOR LOOP SHALL PLACE ELEVATOR CONTROL INTO PHASE 1. RECALL MODE AND RETURN ELEVATOR TO DESIGNATED SAFE LEVEL.



5 TYPICAL ELEVATOR FIRE ALARM SYSTEM
N.T.S.



6 FIRE ALARM PANEL ELEVATIONS
N.T.S.



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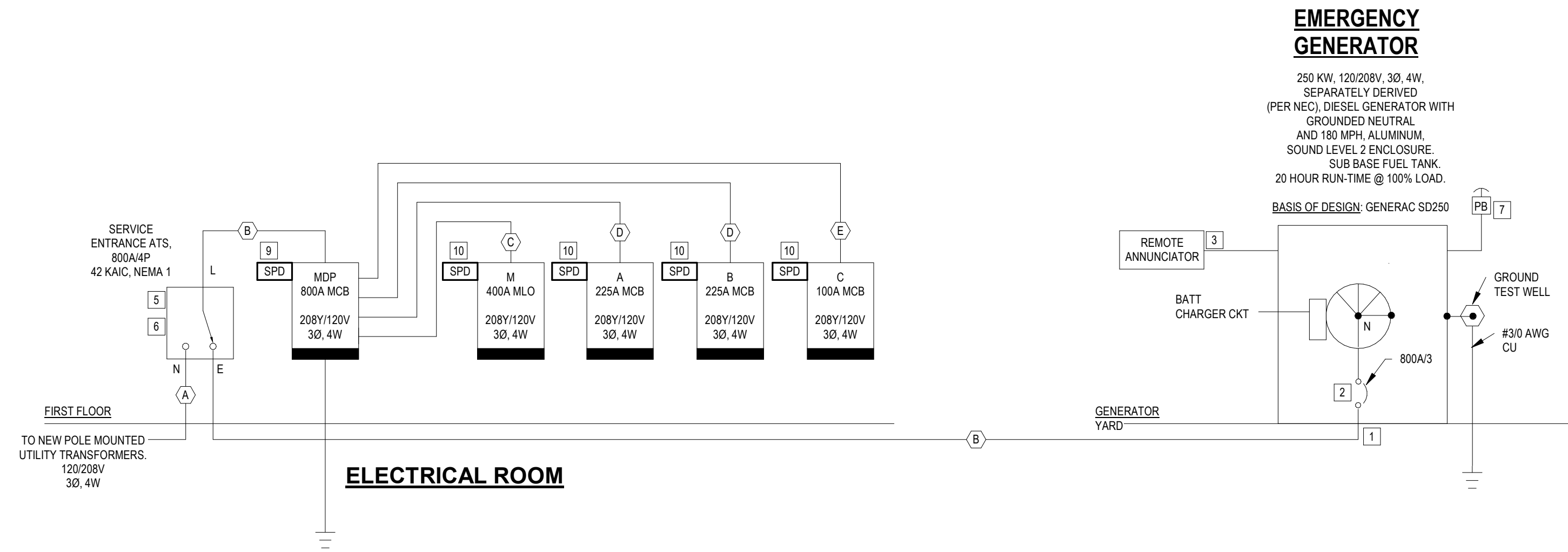
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Branch Panel: MDP																				
LOCATION: ELECTRICAL 110																				
SUPPLY FROM: VOLTS: 120/208 Vwye PHASES: 3																				
MOUNTING: SURFACE ENCLASURE: NEMA 1																				
A.I.C. RATING: 450A MAINS TYPE: H.L.D. MAINS RATING: 800 A																				
CKT	NOTES	CIRCUIT DESCRIPTION	TRIP	POLES	Ø	N	G	C	A	B	C	Ø	N	G	POLES	TRIP	CIRCUIT DESCRIPTION	NOTES	CKT	
1		PANEL A	225 A	3	1	1	*	*	21.60	26.06					3	400 A	PANEL M		2	
3									22.59	26.13										4
5										24.19	23.39									6
7		PANEL B	225 A	3	*	*	*	*	12.94	8.33					3	100 A	PANEL C			8
9									15.1	9.02										10
11										10.64	9.25									12
13																				14
15																				16
17																				18
19																				20
21																				22
23																				24
25		PV SYSTEM	60 A	3	Ø5	Ø10	1"	0	0	0	0				3	30 A	SPD			26
27																				28
29																				30
Total Load:									68.87 kVA	72.84 kVA	67.47 kVA									
Total Amps:									576 A	609 A	562 A									
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals															
Equipment		126.75 kVA	100.00%	126.75 kVA	Total Conn. Load: 209.17 kVA															
Lighting - Dwelling Unit		0.21 kVA	100.00%	0.21 kVA	Total Est. Demand: 155.3 kVA															
Motor		21.58 kVA	117.00%	25.69 kVA	Total Conn.: 581 A															
Other		1.46 kVA	100.00%	1.46 kVA	Total Est. Demand: 542 A															
Receptacle		49.26 kVA	60.10%	29.63 kVA																
Lighting		8.13 kVA	125.00%	10.17 kVA																
LTS		1.57 kVA	100.00%	1.57 kVA																

NOTE LEGEND:
 * REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES
 G = GFCI TYPE BREAKER
 A = AFCI TYPE BREAKER
 ST = SHUNT TRIP BREAKER
 RL = RED, LOCKABLE BREAKER
 E = EXISTING BREAKER
 LSI = LSI ADJUSTABLE TRIP BREAKER

-ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
 * PROVIDE GROUND BUS & NEUTRAL BUS.
 * PROVIDE TYPE WRITTEN DIRECTORY.
 * PANEL SHALL BE FULLY RATED
 * REFER TO POWER RISER FOR CONDUIT AND WIRE SIZES

ELECTRICAL CONDUCTOR SCHEDULE				
TYPE	CAPACITY	CONDUCTORS	MATERIAL	CONDUIT
(A)	800 AMP	3 SETS OF (4) #300kcmil	CU	3"
(B)	800 AMP	3 SETS OF (4) #300kcmil, #2/0 GND	CU	3"
(C)	400 AMP	3 SETS OF (4) #30L, #3 GND	CU	2"
(D)	225 AMP	(4) #4/0, #4 GND	CU	2-1/2"
(E)	100 AMP	(4) #3, #8 GND	CU	1-1/2"



- KEYNOTES:**
- PROVIDE 1-1/4" CONDUIT FROM GENERATOR TO ATS FOR CONTROL WIRING.
 - GENERATOR SHALL INCLUDE ELECTRONIC, 100% RATED, LSI ADJUSTABLE, CIRCUIT BREAKER MOUNTED INSIDE THE GENERATOR ENCLOSURE.
 - PROVIDE 1" AND CONTROL WIRING FOR GENERATOR REMOTE ANNUNCIATOR. FINAL LOCATION OF ANNUNCIATOR SHALL BE COORDINATED WITH OWNER.
 - PROVIDE WEATHER-PROOF GLASS-BREAK PUSH BUTTON ON EXTERIOR WALL OF ELECTRICAL ROOM TO SHUNT TRIP MAIN CIRCUIT BREAKER OF MDP. MOUNT AT 60" AFS.
 - SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH. TRANSFER SWITCH TRANSFER LOADS TO THE GENERATOR WITHIN 10 SECONDS.
 - PROVIDE TRANSFER SWITCH WITH SHORT TIME RATING.
 - PROVIDE WEATHER-PROOF BREAK-GLASS PUSH BUTTON FOR REMOTE SHUT OFF OF GENERATOR. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH IN.
 - PROVIDE WEATHER-PROOF REMOTE PUSH BUTTON FOR REMOTE SHUT OFF OF GENERATOR. REFER TO FLOOR PLANS FOR PROPOSED LOCATION.
 - PROVIDE SURGE PROTECTIVE DEVICE. SHALL BE POWER LOGICS PQS200 OR APPROVED EQUAL.
 - PROVIDE SURGE PROTECTIVE DEVICE. SHALL BE POWER LOGICS PQM100 OR APPROVED EQUAL.

- GENERAL NOTES:**
- BASIS OF DESIGN FOR POWER DISTRIBUTION EQUIPMENT IS SQUARE-D. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET NEC WORKING SPACE AND DEDICATED SPACES CLEARANCES PER NEC.
 - PROVIDE FIELD MARKING OF THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT PER NEC 110.24. FIELD MARKING SHALL BE LEGIBLE AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
 - PERFORM SHORT-CIRCUIT AND COORDINATION STUDY. SET THE FIELD ADJUSTABLE CIRCUIT BREAKERS TRIP RANGES. ELECTRICAL CONTRACTOR SHALL HIRE THE MANUFACTURER OF THE POWER DISTRIBUTION SYSTEM TO SET THE CURRENT CURVES ON THE MAIN CIRCUIT BREAKER AND ASSOCIATED BRANCH CIRCUIT BREAKER FOR THE SWITCHBOARDS & PANELBOARDS SO THAT THEY ARE SELECTIVELY COORDINATED WITH EACH OTHER. THE INTERRUPTING RATING OF ALL ELECTRICAL EQUIPMENTS SHALL BE BASED ON THE DATA RESULTS FROM THE SHORT CIRCUIT & COORDINATION STUDY.
 - COORDINATE LOCATION OF ANY REQUIRED METERING EQUIPMENT WITH LOCAL POWER UTILITY.

REVISIONS		
MARK	DESCRIPTION	DATE

1 RISER DIAGRAM - ELECTRICAL
N/A

COMM. NO.: 2023820
 ISSUE DATE: 01.05.2024
 DRAWN BY: GFS

RISER- ELECTRICAL

