

ADDENDUM No. 6

Project Name: **TOWN OF HILTON HEAD ISLAND
REQUEST FOR PROPOSALS
RFP 2016-0015 FIRE STATION TWO**

Date: July 8, 2016
From: Rosenblum Coe Architects, Inc.
1643 Means St.
Charleston, SC 29412
843.577.6073 (p)



To: **All Plan Holders of Record**

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents (Drawings and Project Manual) dated January 28, 2016, Addendum No. 1 issued May 31, 2016, Addendum 2 issued June 3, 2016, and Addendum 3 issued June 6, 2016, Addendum 4 issued June 23, 2016, and Addendum 5 issued on June 26, 2016. Acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject the Bidder to disqualification. Only the information contained in this Addendum shall be considered as a part of the Bid Documents. This Addendum consists of **4** pages and **34** attachments, for a total of **38** pages.

I. GENERAL:

1. Flood vents are to be bid as shown in the Contract Documents.

II. SPECIFICATIONS:

1. Section SV Proposed Schedule of Values: Delete in its entirety and replace with a new Section SV Proposed Schedule of Values Revised Addendum No. 6, dated July 7, 2016(attached.)
2. Section 012100 Allowances – Page 2, sub-article 1.7 add the following:
“D. The Contractor shall supervise and coordinate all the Work under the Allowances with the other Work under this project. Contractor shall be fully responsible to have complete and operable systems on all project components including the Allowances.
3. Section 224200 Plumbing Fixtures – Revise section 2.3.B.1.b.1 to read as follows: “Dual handle type, polished chromium-plated brass body with gooseneck spout, 4" brass blade handles, color-coded indexes, quarter turn ceramic cartridges, 0.5" rigid brass inlet shanks on 4" centers, and 0.5 gpm vandal resistant aerator flow control.”
4. Section 224200 Plumbing Fixtures – Revise section 2.3.B.1.b.2 to read as follows: “Manufacturer: Chicago 895-317E35XKABCP/E2805-5JKABCP, Speakman SC-3084-LD-E, or T&S B-0892-VF05-CR.”
5. Section 224200 Plumbing Fixtures – Delete section 2.3.D.4.
6. Section 283100 – Fire Alarm System: Delete in its entirety and replace with a new Section 283100 Fire Alarm System identified as Addendum 6, dated July 7, 2016 attached hereto.

III. DRAWINGS:

1. Drawing E6/A401: Add a section mark through display cabinets to reference 1/SK-1(attached to this Addendum).
2. Drawing C3/A300: Add keynotes to stairs as shown on 1/SK-2(attached to this Addendum.)
3. Drawing E1/A103: Replace this drawing with 1/SK-3(attached to this Addendum.)
4. Drawing F1/A102: Revise wall tags to match those shown in SK-4(attached to this Addendum.)
5. Sheet M401, HVAC Schedules: Revise as shown on attached sketch SK-M-001.
6. Sheet M101 ,HVAC Ductwork Plan & Mezzanine: Revise as shown on attached sketch SK-M-002.
7. Sheet M101, HVAC Ductwork Plan 7 Mezzanine: Revise as shown on attached sketch SK-M-003.
8. Sheet E101, Electrical Power Plan & Mezzanine: Revise as shown on attached sketch SK-E-007.
9. Sheet E201, Electrical Lighting Plan & Mezzanine: Revise as shown on attached sketch SK-E-008.
10. Sheet E301, Luminaire Schedule: Revise as shown on attached sketch SK-E-009.
11. Sheet E101, Electrical Schedules: Revise as shown on attached sketch SK-E-010.
12. Sheet E101, Electrical Schedules: Revise as shown on attached sketch SK-E-011.
13. Sheet FA101, Fire Alarm Plan & Mezzanine: Revise as shown on attached sketch SK-FA-001.
14. Sheet FA101, Fire Alarm Plan & Mezzanine: Revise as shown on attached sketch SK-FA-002.
15. Sheet FA101, Fire Alarm Plan & Mezzanine: Revise as shown on attached sketch SK-FA-003.
16. Sheet FA001, Fire Alarm Riser and Notes: Revise as shown on attached sketch SK-FA-004.
17. Sheet FA001, Fire Alarm Riser and Notes: Revise as shown on attached sketch SK-FA-005.
18. Sheet FA001, Fire Alarm Riser and Notes: Revise as shown on attached sketch SK-FA-006.

IV. QUESTIONS FROM PROSPECTIVE BIDDERS(with responses from design team in **BOLD**):

1. Precast Concrete Splash Blocks: Listed in both 033000.G and in 076200.R what is the difference?
Wherever it is referenced as 03300.G it should be changed to 076200.R and be supplied as a part of the Work included in that specification. No product specification exists.
2. What is the difference between 042000.H Damproofing and 071113.A Bituminous Damproofing?
All Damproofing shall be performed under Specification Section 071113 Bituminous Damproofing. Wherever the keynote 04200.H occurs it should be changed to read 071113.A.
3. What is the difference between 072500.A Weather Barriers, and 072100.L Self Adhering Sheet Water Underlayment between the roof sheathing and shingles, and the Felt Spec?
Existing 072500.A refers to Building Paper used in the wall systems.
New 072500.B refers to Self-Adhering Flashing used all exterior door, window, and misc. opens in the walls.
Where the keynote 072500.A is indicated in the roofing system it should be changed to 073113.C Self-Adhering Sheet Underlayment.

4. What is the difference between 092900.J Sound Attenuation Insulation and 072100.L Sound Attenuation Insulation Wall Types D, E, F, H, I?

Delete all references to 072100.L and where indicated and change to 092900.J Sound Attenuation Blankets.

5. No Specification in the 3 volumes match the following plan keynotes: 089119 Fixed Louvers; 105616 Wood Storage Shelving; 312300 Existing Soil; 312300 Compact Fill.

089119 Fixed Louvers: Delete this keynote, all louvers are called out by the mechanical engineers on drawings, schedules and in MEP specifications.

105616 Wood Storage Shelving: Delete reference to keynote, see Sheet A102, note 12. Shelving shall be job built under Specification Section 062013 – Finished Carpentry.

312300 Existing Soil & 312300 Compact Fill: These specific specifications do not exist but the keynotes apply, as appropriate, to various Division 31 Earthwork sections.

6. No curtesy keynotes matching the following spec sections division 3 through 12: 055113 Metal Pan Stairs, 078413 Penetration Firestopping, 078443 Joint Firestopping, 122113 Louver Blinds (H8/A613 shows section)

Section 055113 Metal Pan Stairs: This refers to the stairs from the Apparatus Bay to the Mezzanine.

078413 Penetration Firestopping: This section refers to sealing all penetrations through rated wall as they occur and are necessary.

122113 Louver Blinds: Provide on all exterior windows with the exception of the Entry Storefront System Complete.

7. No Spec for 034100 Pre-Cast Concrete – Site Work is actually in the book. Parking bumpers?

No specification is necessary, just procure standard precast concrete bumpers from the local precast plant with holes for hold down pins.

8. What is the difference between 321443 Porous Unit Paving and 033010 Pervious Concrete – Site Work? No new porous pavers are shown, only demo. Retaining wall is kind of like pavers but the civil plans list a different brand than the spec. The schedule of values confuses both specs with “porous concrete.”

Section 321443 Porous Unit Paving: Delete this specification section in its entirety.

Section 033010 Pervious Concrete: Parking spaces (along with all the sidewalks) are in pervious concrete, so 033010 Pervious Concrete – Site Work applies.

9. What is the difference between 033001 Cast-in-Place Concrete – Site Work and 321600 Concrete Curb and Gutter, and Sidewalk?

033001 Cast-in-Place Concrete – Site Work would apply to the driveways/aprons, dumpster pad and transformer pad, while 321600 Concrete Curb and Gutter, and Sidewalk would apply to curb and gutter.

10. Please specify if you want all bidders to quote the current 6% sales tax or the potential 8% sales tax likely to go into effect Jan 1, pending Beaufort county November referendum results.

Use 8% sales tax.

11. I can't find any part of the plans and specs for Schedule of Value lines Metal Building Systems, Flexible Hurricane Protection System, and Flush Corner Guards.

Please see the attached revised Schedule of Values as an attachment to this Addendum No. 6.

12. The king fisher radio transmitter rep says their system can only be used on the nearby military bases. The town of Hilton head fire department uses Motorola radios. Should that basis of design be changed?

See revised Section 283100 – Fire Alarm System.

V. SUBSTITUTION REQUESTS

1. Specification Section 072119, page 3, 2.2.A.1, add the following manufacturer to the list:
“i. SWD Urethane Company”
2. Specification Section 071326, page 2, 2.2.A.1, add the following manufacturer to the list:
“b. Soprema.”

Attachments:

Schedule of Values for RCA Project # 1177, revised date July 7, 2016, 7 Pages.

Specification Section 283100, Addendum 6 July 7, 2016, 9 pages.

SK-1, Section Through Display Casework, dated July 7, 2016, 1 page.

SK-2, Building Section – Apparatus Bay, dated July 7, 2016, 1 page.

SK-3, Exterior Stair Section, dated July 7, 2016, 1 page.

SK-4, Floor Plan – Living Quarter/App Bay Revisions, dated July 7, 2016, 1 page.

SK-M-001, M401, HVAC Schedules, dated July 8, 2016, 1 page.

SK-M-002, M101, HVAC Ductwork Plan & Mezzanine, dated July 8, 2016, 1 page.

SK-M-003, M101, HVAC Ductwork Plan & Mezzanine, dated July 8, 2016, 1 page.

SK-E-007, E101, Electrical Power Plan & Mezzanine, dated July 8, 2016, 1 page.

SK-E-008, E201, Electrical Lighting Plan & Mezzanine, dated July 8, 2016, 1 page.

SK-E-009, E301, Luminaire Schedule, dated July 8, 2016, 1 page.

SK-E-010, E101, Electrical Schedules, dated July 8, 2016, 1 page.

SK-E-011, E101, Electrical Schedules, dated July 8, 2016, 1 page.

SK-FA-001, FA101, Fire Alarm Plan & Mezzanine, dated July 8, 2016, 1 page.

SK-FA-002, FA101, Fire Alarm Plan & Mezzanine, dated July 8, 2016, 1 page.

SK-FA-003, FA101, Fire Alarm Plan & Mezzanine, dated July 8, 2016, 1 page.

SK-FA-004, FA001, Fire Alarm Riser and Notes, dated July 8, 2016, 1 page.

SK-FA-005, FA001, Fire Alarm Riser and Notes, dated July 8, 2016, 1 page.

SK-FA-006, FA001, Fire Alarm Riser and Notes, dated July 8, 2016, 1 page.

*****End of Addendum*****

**SCHEDULE OF VALUES FOR
RCA PROJECT# 1177**

**IFB 2016-0000 FIRE STATION #2
65 LIGHTHOUSE ROAD
HILTON HEAD ISLAND, SOUTH CAROLINA**

NAME: _____

ADDRESS: _____

PHONE NO. : _____

FAX NO. : _____

Base Proposal Value:

1. Payment & Performance Bond: \$ _____

2. General Conditions & Construction Fee: \$ _____

3. Final Clean: \$ _____

4. Structural Demolition: \$ _____

5. Site Preparation Clearing & Grubbing: \$ _____

6. Grading: \$ _____

7. Excavation: \$ _____

8. Trenching and Backfilling for Utilities: \$ _____

9. Fill and Compaction for Building: \$ _____

10. Erosion and Sediment Control: \$ _____

11. Termite Control: \$ _____

12. Aggregate Base Course: \$ _____

- 13. Removing and Replacing Pavements: \$ _____
- 14. Concrete Paving: \$ _____
- 15. Concrete Curb and Gutter, and Sidewalk: \$ _____
- 16. Thermoplastic Pavement Markings: \$ _____
- 17. Concrete Paving: \$ _____
- 18. Landscaping & Lawn Restoration: \$ _____
- 19. Sewer Inspection & Testing: \$ _____
- 20. Tracer Wires: \$ _____
- 21. Water Distribution Piping and Equipment: \$ _____
- 22. Water & Sewer Service Connections: \$ _____
- 23. Packaged Sewage Grinder Pump Units and Sanitary Sewage Force Mains: \$ _____
- 24. Cast-In-Place Concrete: \$ _____
- 25. Concrete Form Work & Reinforcing – Site Work: \$ _____
- 26. Pervious Concrete – Site Work: \$ _____
- 27. Unit Masonry: \$ _____
- 28. Structural Steel: \$ _____
- 29. Cold Formed Metal Framing: \$ _____
- 30. Metal Fabrications: \$ _____

- 31. Metal Pan Stairs: \$ _____
- 32. Pipe and Tube Railings: \$ _____
- 33. Rough Carpentry: \$ _____
- 34. Finish Carpentry \$ _____
- 35. Wood-Veneer-Faced Architectural Cabinets: \$ _____
- 36. Bituminous Damp Proofing: \$ _____
- 37. Self-Adhering Sheet & Fluid Applied Waterproofing: \$ _____
- 38. Thermal Insulation: \$ _____
- 39. Foamed-In-Place Insulation: \$ _____
- 40. Weather Barriers: \$ _____
- 41. Asphalt Shingles: \$ _____
- 42. Standing Seam Metal Roof Panels: \$ _____
- 43. Fiber Cement Siding: \$ _____
- 44. Sheet Metal Flashing and Trim: \$ _____
- 45. Penetration & Joint Firestopping: \$ _____
- 46. Joint Sealants: \$ _____
- 47. HM Doors & Frames: \$ _____
- 48. Flush Wood Doors: \$ _____

- 49. Sectional Doors: \$ _____
- 50. 4-Fold Doors: \$ _____
- 51. Removable Flood Barrier: \$ _____
- 52. Aluminum Storefront & Entrances: \$ _____
- 53. Door Hardware: \$ _____
- 54. Glazing: \$ _____
- 55. Mirrors: \$ _____
- 56. Flood Vents: \$ _____
- 57. Gypsum Board Shaft Wall Assemblies & Gypsum Board: \$ _____
- 58. Ceramic Tile: \$ _____
- 59. Acoustical Panel Ceilings: \$ _____
- 60. Resilient Wall Base & Accessories & Resilient Tile Flooring: \$ _____
- 61. Resilient Athletic Flooring: \$ _____
- 62. Sheet Carpet: \$ _____
- 63. Painting & High-Performance Coatings: \$ _____
- 64. Visual Display Surfaces: \$ _____
- 65. Dimensional Letter Signage: \$ _____
- 66. Toilet, Bath, and Laundry Accessories: \$ _____

- 67. Fire Protection Cabinets & Fire Extinguishers: \$ _____
- 68. Emergency Key Cabinets: \$ _____
- 69. Phenolic Lockers: \$ _____
- 70. Gear Storage Lockers and Carts: \$ _____
- 71. Metal Storage Specialty Shelving: \$ _____
- 72. Ground-Set Flagpole: \$ _____
- 73. Residential Appliances: \$ _____
- 74. Horizontal Louver Blinds: \$ _____
- 75. Solid Surfacing Countertops: \$ _____
- 76. Entrance Floor Mats and Frames: \$ _____
- 77. Bicycle Rack: \$ _____
- 78. Fire Suppression System: \$ _____
- 79. Plumbing complete: \$ _____
- 80. HVAC complete: \$ _____
- 81. Electrical complete: \$ _____
- 82. Emergency Generator: \$ _____
- 83. Fire Alarm System: \$ _____

SCHEDULE OF ALLOWANCES:

Contingency Allowance: (5% of Base Bid) \$ _____

Interior & Exterior Signage Allowance: \$ 15,000.00

Security Allowance: \$ 20,000.00

Communications Allowance: \$ 20,000.00

TOTAL BASE PROPOSAL:
(Including all Allowances) \$ _____

ALTERNATES:

Alternate 1: \$ _____
State Change in Base Proposal Sum to provide: Crosswalk and related modifications to Light-house Rd. walk/bikeway. This is an ADD alternate.

Alternate 2: \$ _____
State Change in Base Proposal Sum to provide: 7 golf cart charging stations in Apparatus Bay. Bid alternate includes the following circuits: HP1-13, HP1-17, HP1-19, HP1-23, HP1-25, HP1-29, HP1-31. This is an ADD alternate.

TOTAL GENERAL CONSTRUCTION PROPOSAL:
(Includes Plumbing, Mechanical & Electrical, All Allowances and All Alternates) \$ _____

OTHER SUB-CONTRACTORS, FABRICATORS & SUPPLIERS (Not listed on Proposal Form):

Others (Not Listed): _____

SECTION 283100 - FIRE ALARM SYSTEM

PART 1 - GENERAL

1.1 DESCRIPTION

- A. General provisions and other fire detection and alarm systems are specified in other Sections of Division 28.
- B. This Section covers the fire alarm system.
- C. This Section includes fire alarm connections to alarm and supervisory devices furnished with the fire extinguishing systems which are specified in Division 21.

1.2 QUALITY ASSURANCE

- A. Conform to the following:
 - 1. International Building Code-2012.
 - 2. NFPA 70-2011.
 - 3. NFPA 72-2007.
- B. Preparation of submittals, final panel connections, system programming, testing, certification, and operator training shall be performed by an authorized, factory-trained distributor or direct factory office of the equipment manufacturer.
- C. Material and equipment shall be the standard products of a manufacturer regularly engaged in the manufacture of fire alarm equipment, Equipment furnished shall be listed in accordance with UL 864-2014 and FM approved for use in fire protective signaling systems.
- D. Fire alarm equipment shall be a product of Honeywell Corporation. Fire alarm equipment and devices shall be furnished through a service provider that is a factory-authorized distributor or direct factory office of the equipment manufacturer. This service provider shall be located within 60 miles of the project site and shall be capable of providing on-site response to emergency calls within 8 hours. The service provider shall perform all functions relating to submittal preparation, system programming, final wiring connections at control panels, system testing and certification, and on-site operator training. The service provider shall employ at least 2 individuals who have been factory certified to program and maintain the fire alarm equipment and who hold current Level III or IV certifications in the Fire Alarm subfield by the National Institute for Certification in Engineering Technologies (NICET).

1.3 SUBMITTALS

- A. Submittals shall conform to NFPA 72-2007 and the requirements of Section 283010, Fire Detection and Alarm General.

- B. Submittals shall include a bill of materials, product data sheets, installation drawings, and calculations.
 - 1. Drawings shall be prepared using AutoCAD and shall show the building in plan view to a scale not smaller than 1/8" = 1'-0". In plan views indicate the location of devices, approximate raceway routing between devices, conductor requirements in each section of raceway, the address of signaling line circuit (SLC) devices, and the intensity of strobe lights. Provide hook-up details for fire alarm initiating and notification devices and indicate the wiring color code to be used. Include a system operating sequence in the form of a narrative or an I/O schedule. Provide control panel diagrams showing the arrangement of modular components and terminal connections for external wiring.
 - 2. Product data sheets shall be submitted for hardware, devices, and wire and shall be marked to indicate the model numbers and applicable options.
 - 3. Provide calculations for the voltage drop on notification appliance circuits, amplifier sizes, and battery sizes. Voltage drop calculations shall use as the starting voltage the battery voltage available after the batteries have operated the system in the quiescent and alarm modes for the specified duration of time.

1.4 SYSTEM FEATURES AND CONFIGURATION

- A. The fire alarm system shall employ analog addressable initiating devices and multiplex communication techniques. The point address of each device shall be set either at the device or at the control panel and shall be independent of the relative location of the device on the signaling line circuit. The system shall operate at 24 V DC when provided with 120 V AC primary power. Signaling line and notification appliance circuits shall be arranged for Class B operation in accordance with NFPA 72-2007.
- B. The fire alarm system shall stand alone and shall be independent of other building systems and data communications links. Software routines necessary to perform auxiliary functions shall reside within the fire alarm system. Operation of these auxiliary functions shall be initiated through addressable control modules, configured as relays, located adjacent to the controlled equipment.
- C. The fire alarm system shall include, but not be limited to, the following operating features:
 - 1. At least 3 levels of password protection for program access and changes.
 - 2. Control-by-event programming whereby the receipt of an alarm from any point may be programmed to operate any or all control points on the system. The program shall allow input/output control based on ANDing, ORing, and time-of-day.
 - 3. Bypass and restore any detection or control point separately.
 - 4. A historical event log for view or print to store events in chronological order.
 - 5. Fully site-programmable using a keypad or portable computer. Programming changes shall be stored in nonvolatile memory.
 - 6. Real-time nonvolatile clock. System displays shall be annotated with time and date.
 - 7. Drift compensation to automatically maintain the desired sensitivity level of analog detectors. Adjust for accumulation of contaminants and other environmental effects that would increase or decrease the detector sensitivity.

8. Maintenance alert to signal when the sensitivity compensation of an individual analog device is nearing the allowable limit.
9. On-demand status reports for each system point including:
 - a. Device type.
 - b. Custom message.
 - c. Status.
 - d. Sensitivity (analog only).
 - e. Address.
10. Individual English-language message display for each device. The display shall include the time, date, device type, and status in addition to a user-defined message up to 40 characters in length.
11. Ground fault detection.
12. Placement supervision of sensors and control panel components. The panel shall report by address any sensor removed from the system. Operation of other sensors shall not be affected.
13. Electrical supervision of SLCs, initiating device circuits (IDCs), NACs, primary power supply, and battery placement.
14. Audible trouble indicator, silence switch, and trouble LED.
15. Evacuation alarm silencing switch. This switch shall be overridden upon activation of a subsequent device and the alarm devices shall be re-activated. The switch shall silence audible alarms and turn off strobe lights.

PART 2 - PRODUCTS

2.1 FIRE ALARM CONTROL PANELS

- A. Control panels shall be listed in accordance with UL 864-2014. Panels shall be microprocessor-based and shall include plug-in modular components installed in a surface-mounted steel cabinet with hinged door with cylinder lock. Panel annunciation devices and visible indicators shall be visible when the door is closed. The primary annunciation device shall be a backlighted liquid crystal display (LCD) and with operator keypad. LCD minimum capacity shall be 80 characters. Provide master system function keys including, but not limited to, Acknowledge, Reset, Silence, and Trouble Silence. A switch shall be provided for testing LED visible indicators. Controls and switches shall be identified with labels. Hand lettering is not acceptable.
- B. Power supplies shall have sufficient capacity to operate audible and visible notification appliances simultaneously for the specified duration of time.
- C. Provide signaling line and notification appliance circuits arranged so that the connected load on any circuit does not exceed 75% of rated circuit capacity.
- D. Circuit conductors entering or leaving the control panel shall be connected to screw-type terminals with each terminal marked for identification.
- E. The fire alarm signal shall be 3-pulse temporal evacuation pattern at 520 Hz. Audible tones shall be synchronized throughout the building.

- F. Provide an audio system, including supervised primary amplifier, a standby amplifier, and a tone generator card. Amplifier sizing shall be based on operating speakers throughout the building. The connected load on any amplifier shall not exceed 80% of the amplifier rated power output capacity. Load voltage shall be 25 V RMS. Upon failure of the primary amplifier, the standby amplifier shall automatically assume the load and a trouble condition shall be annunciated on the system.
 - 1. Controls shall include a preamplifier, a hand-held microphone with press-to-talk button and coil cord.
- G. Provide two 2-way programmable switches for future use.

2.2 STORAGE BATTERIES

- A. Storage batteries shall be sealed, lead-calcium or lead-acid type requiring no additional water. Batteries shall have capacity, with primary power disconnected, to operate the fire alarm system under quiescent load for a period of 24 hours and thereafter operate audible and visible notification devices in an all-call mode for a period of 5 min. Batteries shall be sized to deliver 25% more ampere/hours based on a 24 hour discharge rate than required for the calculated capacities. Batteries shall be located in the bottom of the control panel or in a separate cabinet.
- B. The battery charger shall be completely automatic, with high/low charging rate, capable of restoring the batteries from full discharge to full charge within 48 hours. The charger shall be located within the control panel or battery cabinet.

2.3 MANUAL FIRE ALARM PULL STATIONS

- A. Manual fire alarm pull stations shall conform to the applicable requirements of UL 38-2008. Stations shall be addressable, double-action type installed on semiflush-mounted outlet boxes. The housing shall be finished in red, with raised letter operating instructions of contrasting color. Stations requiring the breaking of glass or plastic panels for operation are not acceptable. The use of a key or wrench shall be required to reset the station. Stations shall have a separate screw terminal for each conductor. Surface-mounted boxes shall be painted the same color as the manual stations.

2.4 AUTOMATIC FIRE DETECTING DEVICES

- A. Bases for automatic fire detection devices shall have screw terminals for wiring connections.
- B. Smoke Detectors:
 - 1. Smoke detectors include area type and duct-mounted devices. Area and duct-mounted detectors shall be point-addressable, dynamically supervised (analog) type listed in accordance with UL 268-2009. Area type and duct-mounted smoke detectors shall be photoelectric type. Detectors shall contain a visible LED which

- shall be illuminated when the unit is in alarm condition. Detectors shall be plug-in type in which the detector base contains terminals for making wiring connections.
2. Photoelectric smoke detectors shall operate on a light scattering principle using an LED light source. Failure of the LED shall not cause an alarm condition. Detectors shall have an obscuration rating within the limits prescribed by UL 268-2009. Smoke detectors within sleeping areas shall include an integral sounder base and an integral carbon monoxide sensor.
 3. Duct smoke detectors shall include an enclosure, mounting hardware, and perforated sampling tubes. The intake tube shall extend through the far side of the duct and shall be plugged with a removable rubber stopper or cap. Detectors shall be listed for airstream velocities up to 4000 fpm. Provide a remote LED with faceplate and identification label for each duct smoke detector.

2.5 SIGNALING LINE CIRCUIT INTERFACE DEVICES

- A. The system shall include addressable monitor and control modules to perform control functions and supervise the open alarm contacts of nonaddressable initiating devices. Unless otherwise indicated on the Drawings, provide an individual monitor module for each nonaddressable initiating device. Wiring between the monitor module and the initiating device shall be arranged for Class B operation. Control modules shall be configured as Form C dry contact relays. Each module shall mount in a standard outlet box and shall include a status LED, a terminal strip for external wiring connections, and a faceplate for an identification label. Status LEDs shall be visible without removing faceplates. The label shall indicate the module function and address.
- B. Where the rated current capacity of the control module is insufficient to connect directly to the controlled equipment, provide an intermediate 24 V DC plug-in control relay with dustproof cover, terminal strip for coil and contact connections, and painted steel enclosure designed for wall mounting. The enclosure shall be identified with a permanent label. Operating power for the relay coil shall be supervised by the SLC.

2.6 NOTIFICATION APPLIANCES

- A. Fire Alarm Speakers:
 1. Speakers shall be flush-mounted on the walls. Speakers shall have a frequency response of 400 Hz to 4000 Hz and matching transformer with multiple power taps in the range of 0.25 W to 2 W. Speakers shall produce a minimum sound rating of 84 dBA at 10' at 1 W. Speakers shall include a square perforated grille with red enamel finish.
- B. Visible Notification Appliances:
 1. Visible notification appliances shall be strobe lights conforming to UL 1971-2002. Strobes shall have a Xenon flash tube and clear optic lens and identification "FIRE" in a contrasting color. Strobe intensity shall be field selectable with a range of 15 candela to 95 candela. Strobes shall flash at approximately 1 flash per s. Strobes shall be semiflush-mounted on the walls and shall include a red faceplate. Strobe lights throughout the building shall flash at a synchronized rate.

C. Combination Audible/Visible Notification Appliances:

1. Combination audible/visible notification appliances shall provide the same performance characteristics as specified herein for individual units, except that they shall mount in a single factory-assembled enclosure.

2.7 FIRE ALARM ANNUNCIATORS

A. Alphanumeric Annunciators:

1. Alphanumeric annunciators shall consist of a backlighted LCD and operator keypad in a flush-mounted enclosure. The display shall consist of a minimum of 80 characters which shall mimic all messages on the fire alarm control panel. The keypad shall allow the operator to scroll forward or backward through the messages.
2. The remote annunciator shall include a handheld microphone with coil cord to allow a live voice message to be broadcast.

2.8 WIRE AND CABLE

A. Wiring:

1. Wiring for 120 V AC power shall be #12 AWG minimum.
2. Wiring for visible notification appliance circuits (except speakers) shall be Type FPL, solid copper, #14 AWG minimum.
3. Wiring for signaling line circuits shall be Type FPL, solid copper, #16 AWG minimum. The capacitance shall not exceed 35 pf/ft between conductors.
4. Wiring for speaker circuits shall be Type FPL/FPLR, solid copper, twisted pair, minimum #18 AWG. Wiring shall be shielded if recommended by the fire alarm manufacturer.
5. Wiring shall conform to the published performance criteria of the fire alarm manufacturer.

2.9 PERIPHERAL EQUIPMENT AND ACCESSORIES

- A. Document box: steel cabinet with red finish and hinged front door. Place a CD in the box with fire alarm plans and site specific software. Place a business card for the installing company.
- B. Record drawings: provide a PVC tube with end caps mounted to the wall adjacent to the control panels. Place inside one full-size print set of fire alarm as-built shop drawings.
- C. Auxiliary Power Supplies:
 1. Auxiliary power supplies shall provide power for visible notification appliances and other 24 V DC power requirements. Power supplies shall be UL listed, packaged units with surface-mounted steel enclosures, multiple fused notification appliance circuits, transformers, rectifiers, power indicator LED lights, automatic battery

chargers, and standby batteries with 24-hour capacity. Loss of power, low battery voltage, or a supervision fault on a notification appliance circuit shall be annunciated through dry contacts. Input power shall be 120 V AC.

- D. Surge protective devices: surge protective devices shall be hard wired; shall utilize nondegrading, bidirectional, silicon avalanche diode technology; and shall have a response time of less than 5 ns. Proper operation shall be indicated by an integral LED.
1. AC Voltage Power Surge Protective Devices:
 - a. Performance in accordance with IEEE C62.41.1-2002 (R2008) and IEEE C62.41.2-2002 (COR 1-2012).
 - b. Listed in accordance with UL 1449-2014.
 - c. Configured for 120 V, 1-phase, 2-wire with ground (minimum 15 A).
 - d. Maximum clamping voltage shall not exceed 350 V.
 - e. Installed in a UL listed metal enclosure close to the electrical panelboard.
 2. Communication or Signal Conductor Surge Protective Devices:
 - a. Listed in accordance with UL 497B-2004.
 - b. Maximum clamping voltage shall not exceed the normal applied voltage by more than 150%.
 - c. Installed in a UL listed metal enclosure where conductors leave the building.
 3. Manufacturer: Ditek, Edco, Northern Technologies, or Transtector.
- E. Device Markers:
1. Fire alarm initiating devices and SLC interface devices shall be identified with a printed adhesive label showing the device address. Text shall be black on a clear background and shall be minimum 0.5" high.
 - a. Manufacturer: Brother or equal.
- F. Keys and Locks:
1. Keys and locks for control panels, power supplies, and terminal cabinets shall be identical. Provide 6 sets of keys.

2.10 REMOTE STATION TRANSMITTER

- A. Digital Alarm Communicator Transmitter (DACT):
1. Provide an integral digital communicator to transmit fire alarm and supervisory signals through a cellular transmitter to a remote station.
 2. Provide a UL listed fire alarm cellular transmitter to serve as the primary and secondary transmission method to a cellular service monitoring station. Signal shall be relayed to a UL listed remote station. This section shall include cellular and remote station fees for one year.

PART 3 - EXECUTION

3.1 GENERAL

A. Primary Power Circuits:

1. Primary 120 V AC power to fire alarm equipment shall be dedicated branch circuits.

B. Wiring:

1. Line voltage and power-limited circuits shall not be run in the same conduit.
2. Conductors used for the same functions shall be similarly color-coded. Wiring code color shall remain uniform throughout the circuit.
3. Wiring for the fire alarm system shall not be installed in conduits, junction boxes, or outlet boxes with conductors of any other building system. Fire alarm junction boxes and outlet boxes shall be painted red prior to pulling the wire. Circuit conductors entering or leaving any mounting box, outlet box enclosure or cabinet shall be connected to screw terminals with each terminal marked in accordance with the wiring diagram. Connections and splices shall be made using screw terminal blocks. The use of wire nut type connectors are prohibited in the system. Wiring within control panels shall be laced with cable ties. Final wiring connections to the control panel and application of operating power shall be made by the manufacturer's authorized representative.

C. Control Panels and Auxiliary Power Supplies:

1. Control panels and auxiliary power supplies shall be mounted so that no part of the enclosing cabinet is less than 12" nor more than 78" above the finished floor. Provide an engraved label on the door to indicate the panel and circuit number of the 120 V power source.
2. Operating instructions for the fire alarm control panel shall be printed and framed under glass adjacent to the control panel.

D. Conduit and Boxes:

1. Fire alarm wiring shall be installed in galvanized steel electrical metallic tubing (EMT). Minimum raceway size shall be 0.75".
2. Flexible EMT attached to fire sprinkler equipment shall be liquidtight with a neoprene jacket.

E. Install transient voltage surge suppression devices at the following locations:

1. On each branch circuit supplying 120 V power to fire alarm equipment.
2. On each fire alarm communication or signal conductor which leaves the building.

F. Weatherproof Devices:

1. Where exposed to the weather or high humidity, gasketed back boxes and enclosures shall be provided.

3.2 MANUAL FIRE ALARM PULL STATIONS

- A. Mount manual pull stations with the centerline 4' above finished floor.

3.3 AUTOMATIC FIRE DETECTING DEVICES

- A. Area Smoke Detectors:

- 1. Detectors shall be installed in accordance with NFPA 72-2007. Detectors shall be at least 3' from supply diffusers. During construction, smoke detectors shall be provided with protective covers to prevent the entry of dust and debris. Covers shall be removed prior to system acceptance testing.

- B. Smoke detectors on suspended acoustical tile ceilings shall be located in the center of the tile and shall be secured with a tile bridge.

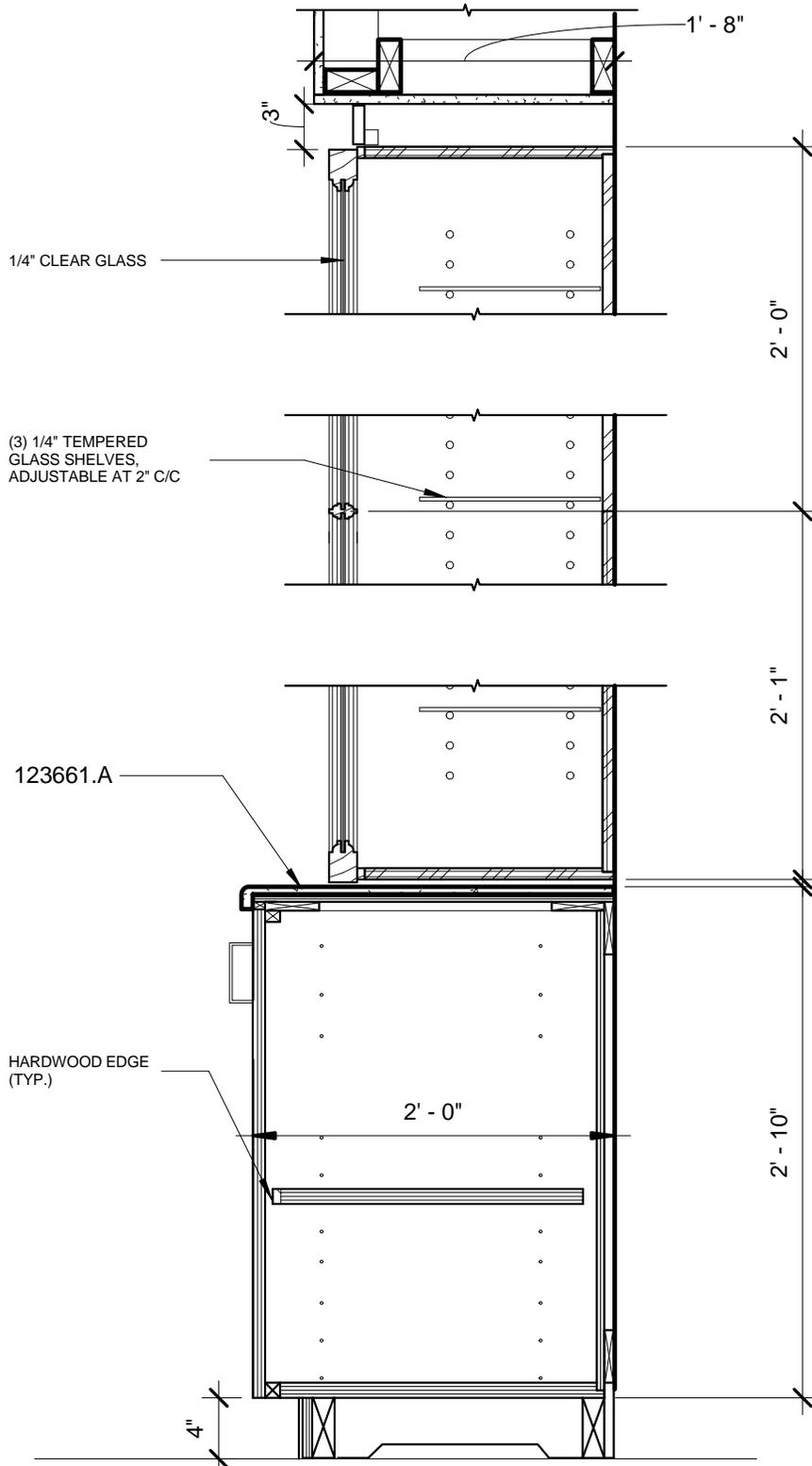
3.4 NOTIFICATION APPLIANCES

- A. Visible notification appliances shall be mounted with the bottom of the strobe lens 6'-8" above the finished floor. For combination audible/visible appliances, mounting height shall be governed by the strobe light.

3.5 SIGNALING LINE CIRCUIT INTERFACE DEVICES

- A. Control modules shall be installed within 36" of the device with which it is associated.

END OF SECTION 283100



1 SECTION THROUGH DISPLAY CABINET
 SK-1 SCALE: 1" = 1'-0"

HILTON HEAD ISLAND FIRE STATION NO. 2

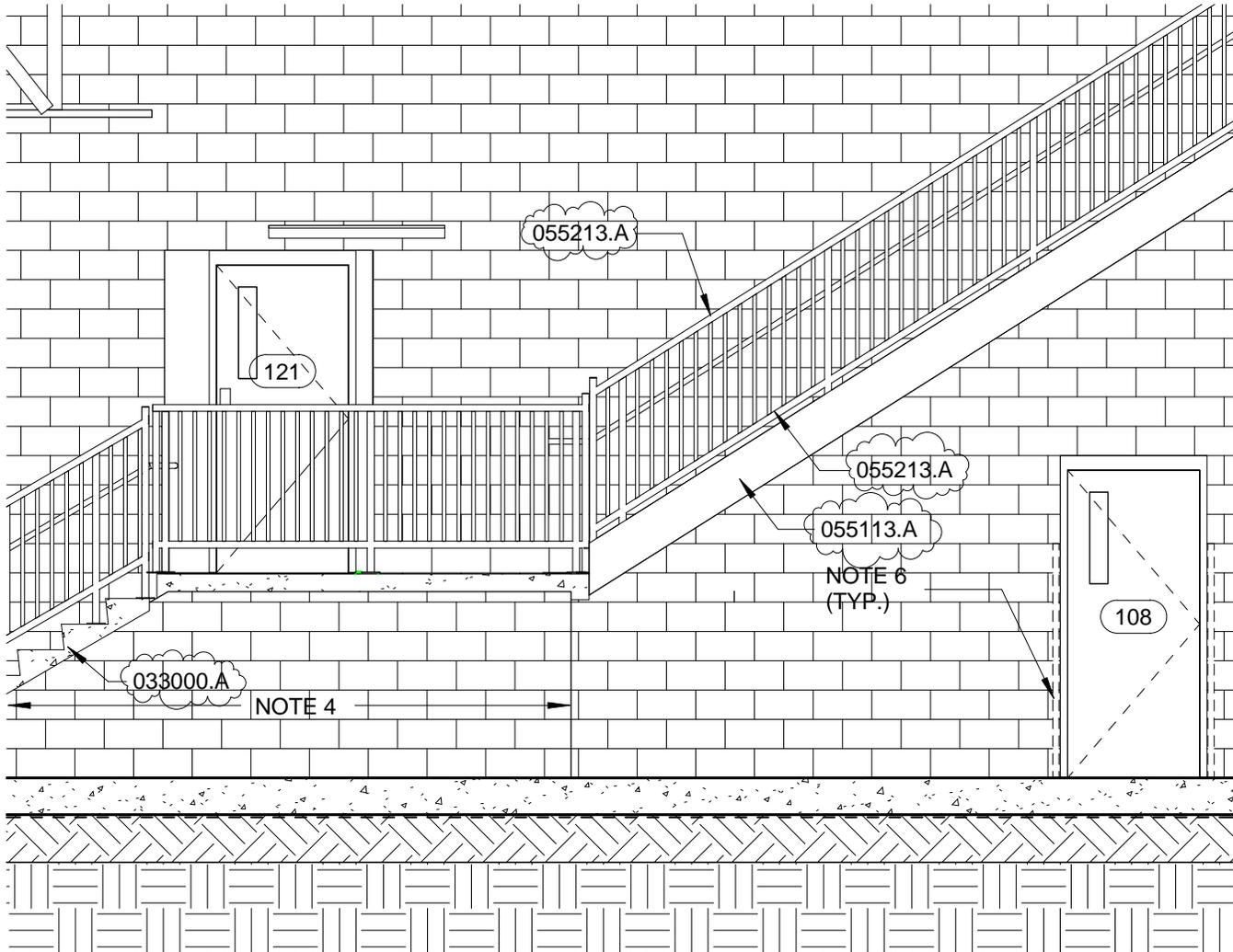
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SECTION THROUGH DISPLAY CASEWORK (SEE E6/A401)

14638	SK-1
JCH	
07/07/16	
1" = 1'-0"	

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- 033000.A CAST-IN-PLACE CONCRETE
- 055113.A METAL PAN STAIR
- 055213.A PIPE AND TUBE RAILINGS - 2" GALVANIZED STEEL TUBE

1 ADDENDUM 6 - BUILDING SECTION - APPARATUS BAY
 SK-2 SCALE: 1/4" = 1'-0"



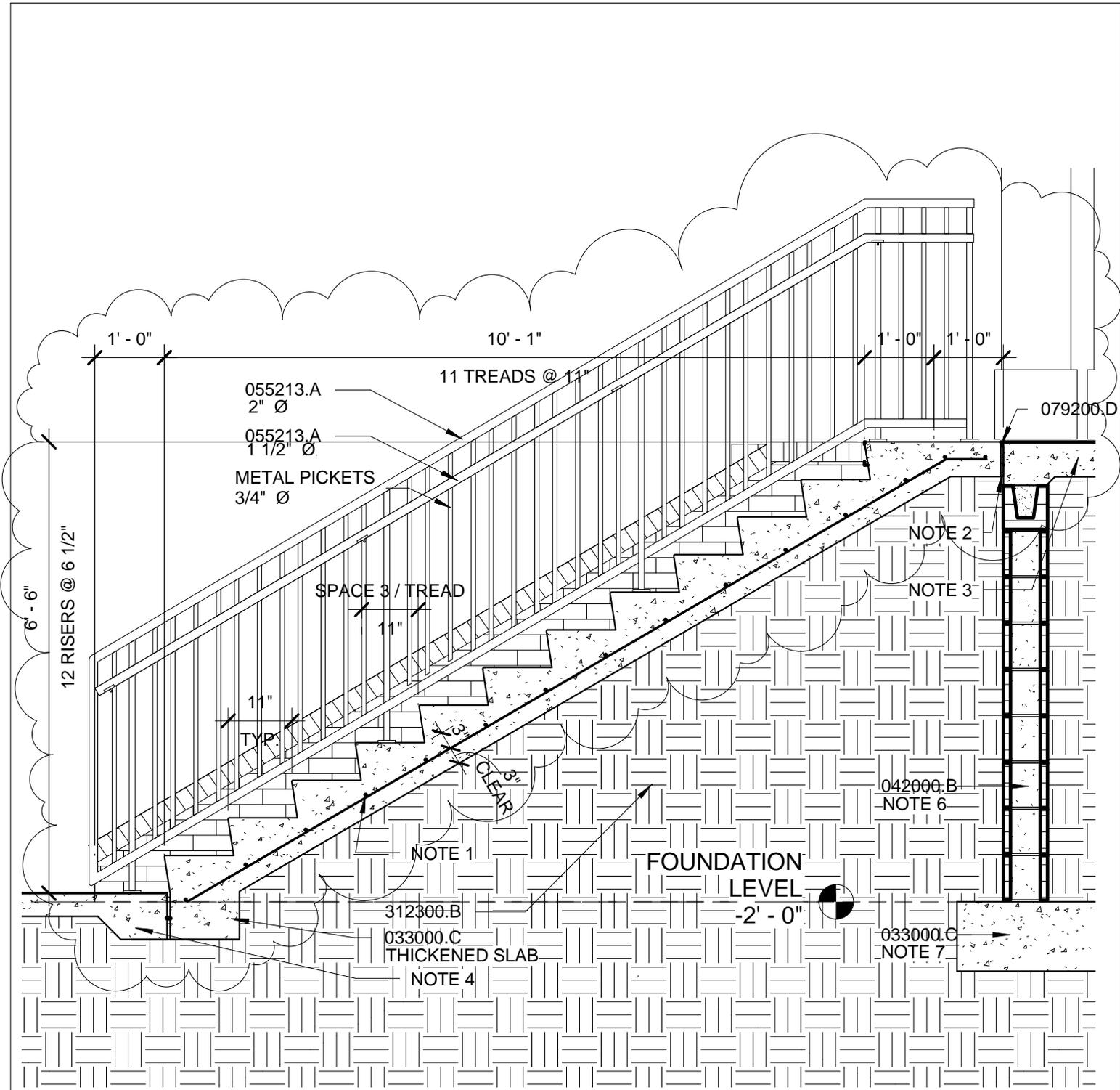
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**BUILDING SECTION - APPARATUS BAY
 REVISED (SEE C3/A300)**

14638	SK-2
JCH	
07/07/16	
1/4" = 1'-0"	



1
SK-3

ADDENDUM 6 - EXTERIOR STAIR SECTION DETAIL

SCALE: 1/2" = 1'-0"



HILTON HEAD ISLAND FIRE STATION NO. 2

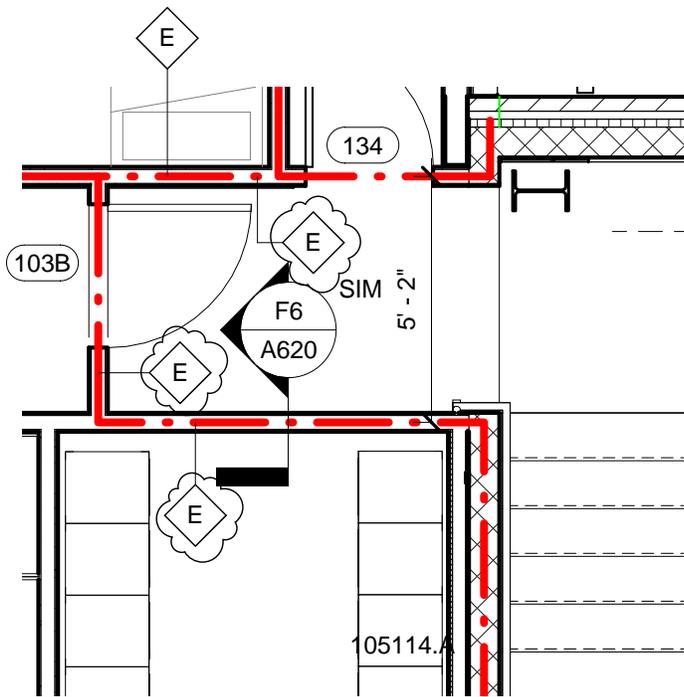
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EXTERIOR STAIR SECTION REVISED (SEE E1/A103)

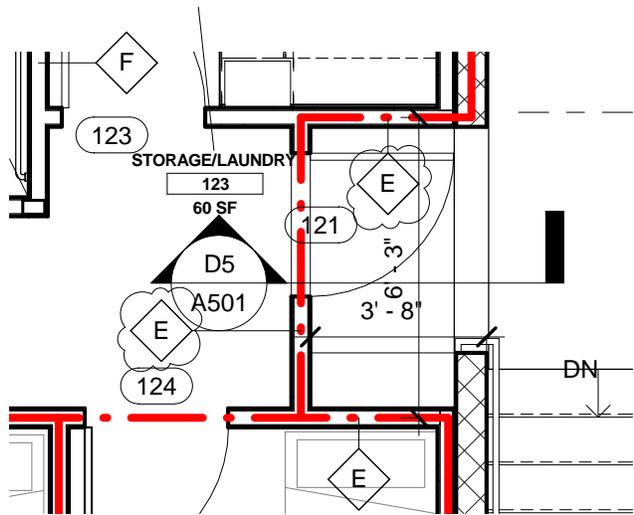
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14638	SK-3
JCH	
07/07/16	

1/2" = 1'-0"



1 ADDENDUM 6 - FLOOR PLAN - LIVING QUARTERS/APP BAY
 SK-4 SCALE: 1/4" = 1'-0"



2 ADDENDUM 6 - FLOOR PLAN - LIVING QUARTERS/APP BAY (2)
 SK-4 SCALE: 1/4" = 1'-0"



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FLOOR PLAN - LIVING QUARTER/APP BAY REVISIONS(SEE F1/A102)

14638	SK-4
JCH	
07/07/16	
1/4" = 1'-0"	

SEQUENCE OF OPERATION

- 1. **EF-2, CONTINUOUS OPERATION EXHAUST FAN**
FAN SHALL OPERATE CONTINUOUSLY.
- EF-6, SWITCH OPERATED CEILING EXHAUST FAN**
TURN EXHAUST FAN ON AND OFF FROM A WALL SWITCH.
- EF-4, 5, 7, 8, BATHROOM CEILING EXHAUST FANS**
INTERLOCK THESE CEILING FANS WITH THE ROOM LIGHT SWITCH. FAN SHALL RUN WHEN LIGHT IS ON.

APPARATUS BAY SEQUENCE OF OPERATION

- 1. ROUTE ALL CONTROL WIRING IN CONDUIT. ALL CONDUIT INCLUDING IN THE APPARATUS BAY FROM SENSORS AND TO CONTROLLED DEVICES MUST BE CONCEALED AND SHALL NOT BE SURFACE MOUNTED.

GENERAL REQUIREMENTS

A DEDICATED STANDALONE DIRECT DIGITAL CONTROL (DDC) SYSTEM SHALL BE PROVIDED WITH ALL NECESSARY DEVICES, SENSORS, CONDUIT, WIRING, AND SUPPORTS AS SPECIFIED TO ACHIEVE THE SEQUENCE OF OPERATION LISTED BELOW.

- 1. IF SPACE TEMPERATURE GOES ABOVE 85°F, THEN LOUVER DAMPERS SHALL OPEN AND THE EXHAUST FANS SHALL RUN UNTIL THE TEMPERATURE SET POINT IS SATISFIED.
- 2. IF THE CO SENSORS REACH 9 PPM OR THE NO2 SENSORS REACH 0.5 PPM, THEN THE LOUVER DAMPERS SHALL OPEN AND THE EXHAUST FANS SHALL RUN UNTIL THE CO NO2 SETPOINTS ARE SATISFIED.
- 3. IF THE LEVEL 1 WARNING THRESHOLD IS REACHED, WHERE CO SENSORS REACH 75 PPM OR NO2 SENSORS REACH 2.0 PPM, THEN THE AMBER STROBE SHALL BE ON AND THE HORN SHALL SOUND.

FAN SCHEDULE

NO.	AREA SERVED	TYPE (NOTE 1)	CFM	STATIC PRESSURE, IN.WG	MAXIMUM RPM	MOTOR, HP	SONES	DRIVE (NOTE 2)	NOTES
EF-1A	APARATUS BAY	C	850	0.5	1100	876 W	5.5	D	3, 4, 5
EF-1B	APARATUS BAY	C	850	0.5	1100	876 W	5.5	D	3, 4, 5
EF-1C	APARATUS BAY	C	850	0.5	1100	876 W	5.5	D	3, 4, 5
EF-1D	APARATUS BAY	C	850	0.5	1100	876 W	5.5	D	3, 4, 5
EF-2	PPE	C	100	0.25	1100	52.5 W	1.3	D	3
EF-4	TOILET	C	140	0.25	1400	113 W	2.5	D	3
EF-5	TOILET	C	70	0.25	950	48.7 W	1.0	D	3
EF-6	STORAGE	C	100	0.25	1100	52.5 W	1.3	D	3
EF-7	TOILET	C	140	0.25	1400	113 W	2.5	D	3
EF-8	TOILET	C	140	0.25	1400	113 W	2.5	D	3

NOTES:

- 1. TYPE:
P PROPELLER
C CEILING EXHAUST
- 2. DRIVE:
B BELT
D DIRECT
- 3. REFER TO THE ELECTRICAL DRAWINGS FOR THE EQUIPMENT ELECTRICAL CHARACTERISTICS.
- 4. PROVIDE WITH SOLID STATE SPEED CONTROLLER.
- 5. PROVIDE WITH ALUMINUM FAN WHEEL.



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**M401 HVAC
SCHEDULES**

14638

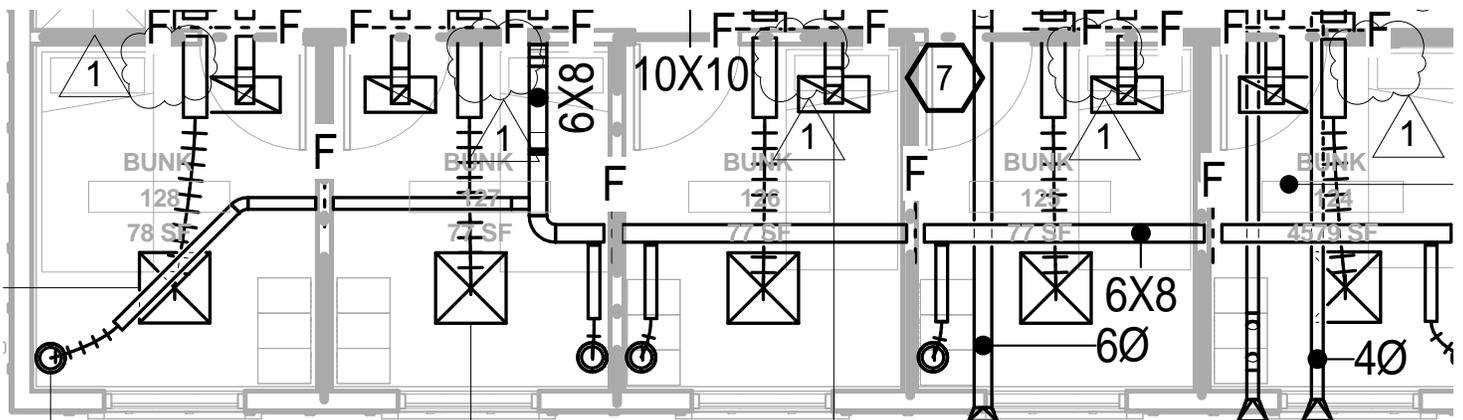
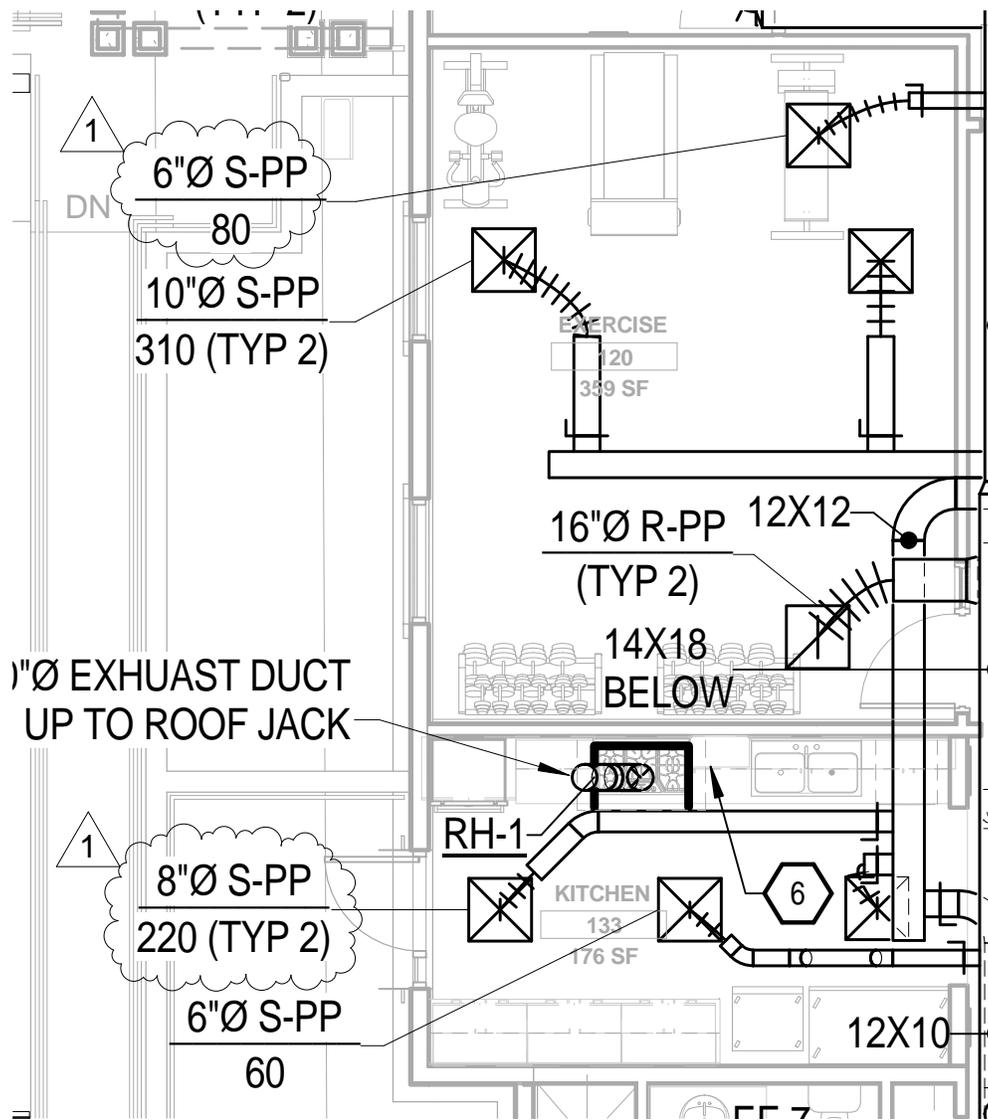
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SK-M-001

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**HILTON HEAD ISLAND
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HILTON HEAD ISLAND, SC 29928

**M101 HVAC
DUCTWORK PLAN &
MEZZANINE**

14638

TAM

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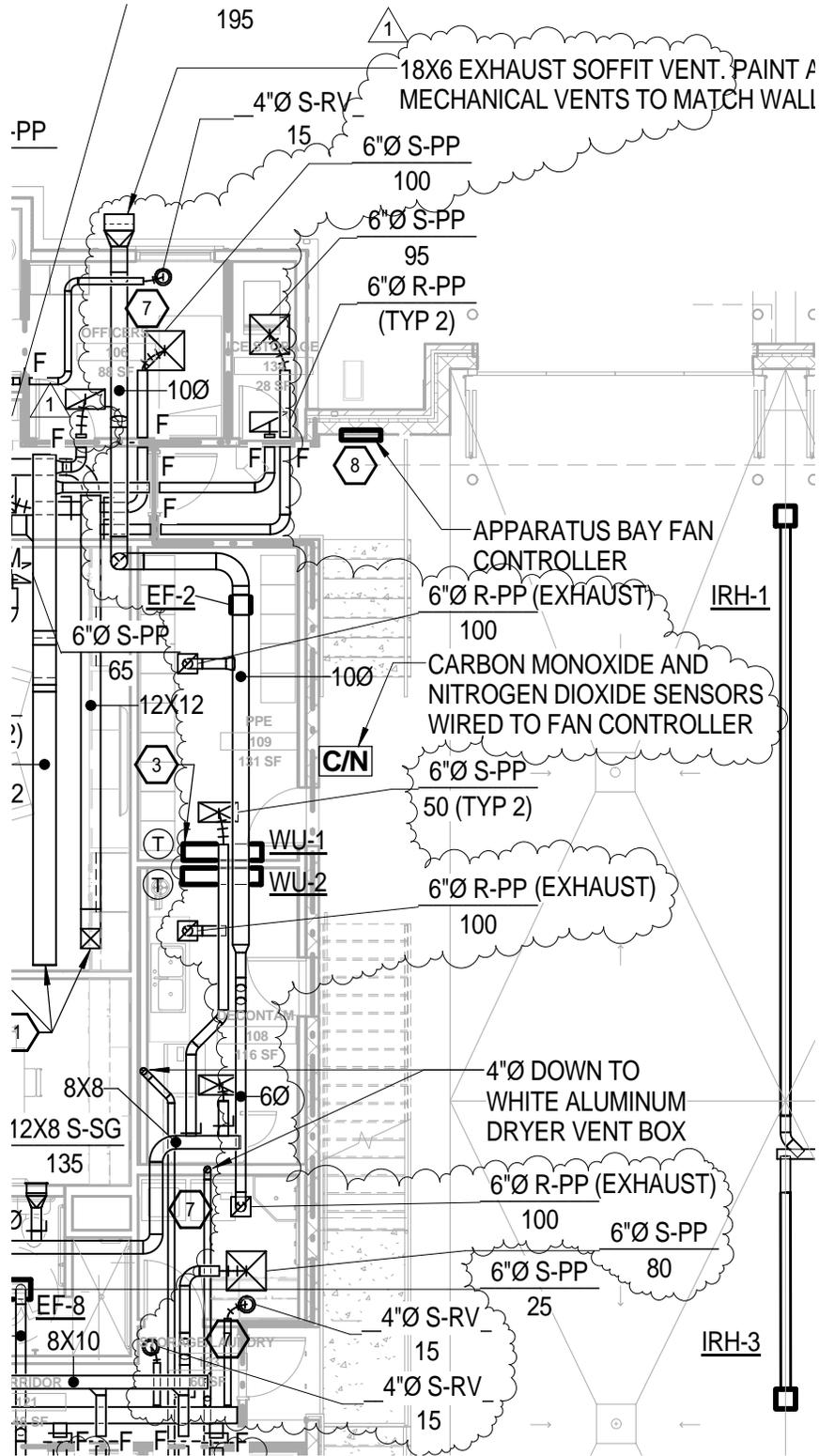
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HILTON HEAD ISLAND, SC 29928

**M101 HVAC
DUCTWORK PLAN &
MEZZANINE**

14638

TAM

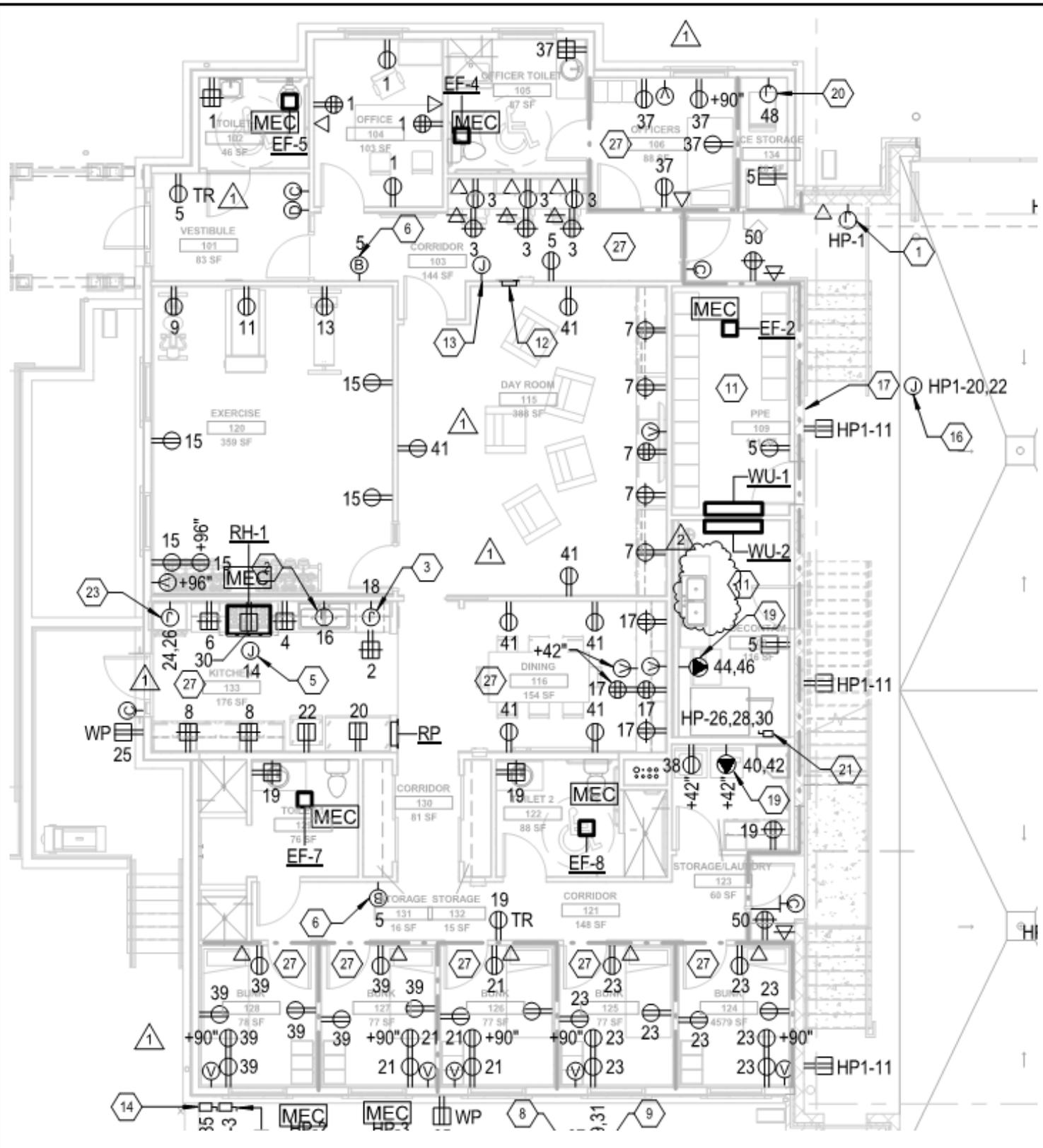
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HILTON HEAD ISLAND FIRE STATION NO. 2

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E101 ELECTRICAL POWER PLAN & MEZZANINE

14638

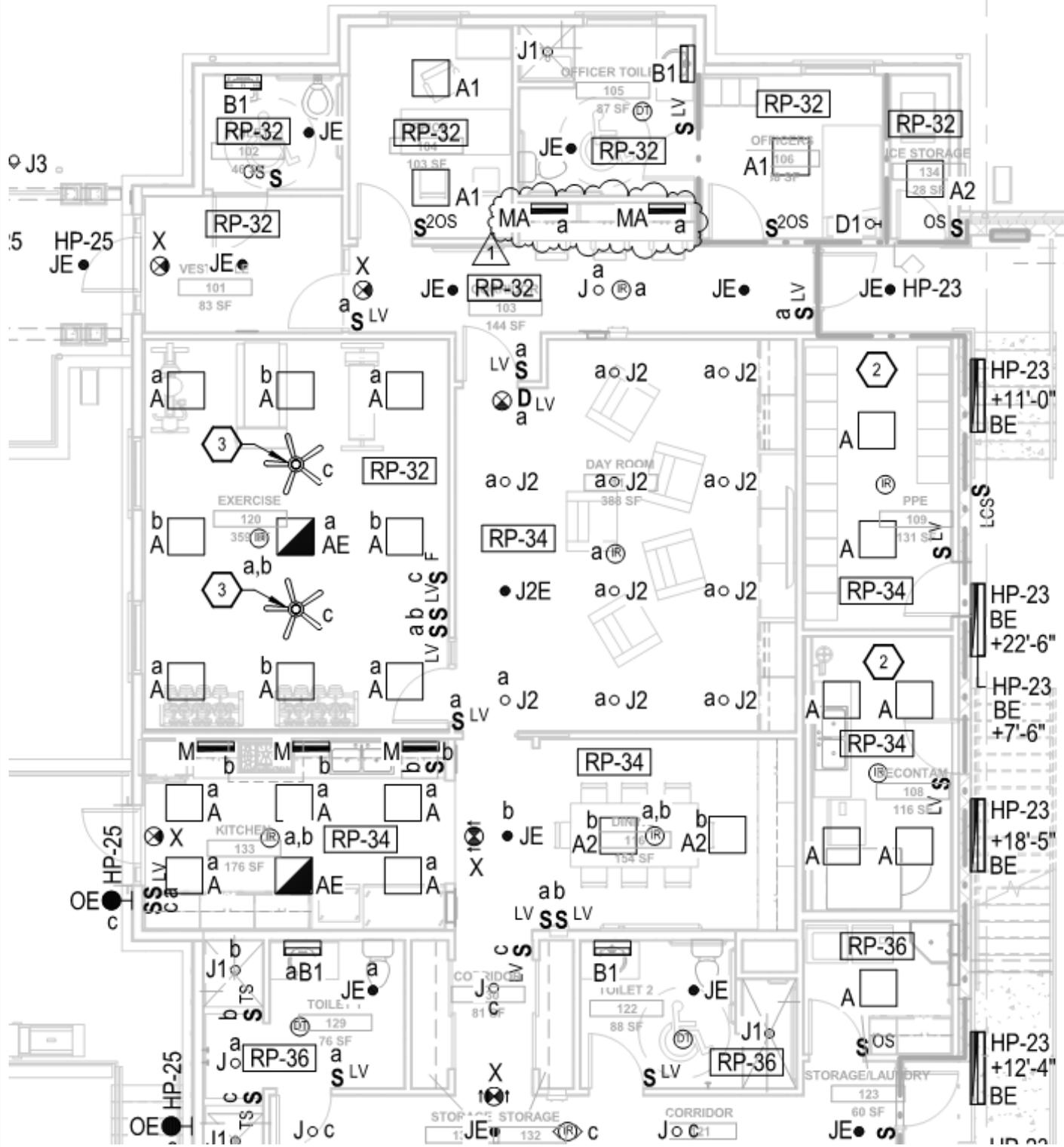
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**HILTON HEAD ISLAND
FIRE STATION NO. 2**

65 LIGHTHOUSE RD.
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**E201 ELECTRICAL
LIGHTING PLAN &
MEZZANINE**

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SYMBOL	DESCRIPTION	MANUFACTURER	QUANTITY	SIZE	TYPE	WATTAGE	PROGRAM	HEIGHT	INSTALLATION	NOTES	
J	AFV-32TRT-6AR-MVOLT	INDY KURT VERSEN LIGHTOLIER EDISON PRICE PORTFOLIO PRESCOLITE	1	2400	CF32W	36	ELECTRONIC, PROGRAM START	120	700	RECESSED, CEILING	LISTED FOR USE IN LUMINAIRE. OPEN REFLECTOR DOWNLIGHT WITH SEMI-SPECULAR, LOW IRIDESCENT REFLECTOR, NOMINAL 6" DIAMETER APERTURE, VERTICAL LAMP ORIENTATION, BALLAST INTEGRAL TO HOUSING, SMH= 0.6-0.8, SELF-FLANGED.
J1	LGFV-26TRT-6RW-FLL-MVOLT	CAPRI HALO JUNO LIGHTOLIER PRESCOLITE	1	1710	CF26W	28	ELECTRONIC, PROGRAM START	120	-	RECESSED, CEILING	RECESSED COMPACT FLUORESCENT SHOWER LIGHT WITH REGRESSED FRESNEL LENS, 6" APERTURE, UL LISTED FOR WET LOCATIONS.
J2	EVO-3515-6AR-MWD- LSS-MVOLT-LEZ1	INDY PORTFOLIO PRESCOLITE	-	1500	LED LAMPS, SUPPLIED BY MANUFACTURER	18.5	0-10 V DIMMING DRIVER	120	1000	RECESSED, CEILING	OPEN REFLECTOR DOWNLIGHT WITH NOMINAL 6" APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, MEDIUM DISTRIBUTION.
J3	IMT-RTR300W-SF-10-35- 12-MAXRTR-IC-10	USAI USAI	-	77	LED LAMPS, SUPPLIED BY MANUFACTURER	10	LED DRIVER	120	-	RECESSED, SOFFIT	RECESSED ADJUSTABLE LED ACCENT LUMINAIRE WITH 35" LOCKING VERTICAL AND 36" LOCKING HORIZONTAL ADJUSTMENT, 12" SPOT OPTIC AND WHITE FINISH. UL LISTED FOR DAMP LOCATIONS.
M	RA224-LCD JB- UC ERG24 R12	FINELITE	-	441	LED LAMPS, SUPPLIED BY MANUFACTURER	13.14	LED DRIVER	120	-	SURFACE, UNDER- CABINET	2 LED UNDER CABINET LUMINAIRE WITH ALUMINUM HOUSING, LUMINAIRE SHALL BE DIRECT WIRED. PROVIDE ALL NECESSARY COMPONENTS FOR A FULLY OPERATIONAL SYSTEM.
MA	WSR-226TRT-MD-MVOLT	GARDCO HUBBEL McGRAW-EDISON	2	2400	CF26W	56	ELECTRONIC, PROGRAM START	120	700	SURFACE, WALL	SAME AS TYPE "M" EXCEPT PROVIDE WITH IN-LINE POWER SWITCH NEATLY CONCEAL SWITCH WIRING DIE-CAST ALUMINUM WALLPACK LUMINAIRE WITH TEMPERED GLASS LENS, FULL CUTOFF AND DARK BRONZE FINISH LUMINAIRE SHALL BE UL WET LOCATION LISTED. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
O1	MR16 BULLET		1	500	LED MR16/FL	7	-	120:12	-	TREE	BULLET LANDSCAPE LIGHT WITH EXTENDED SHROUD, CLEAR CONVEX GLASS LENS, TREE MOUNT. FINISH AS DIRECTED BY THE ARCHITECT. COORDINATE INSTALLATION REQUIREMENTS WITH LANDSCAPE ARCHITECT
X	LRP_-RMR_-120Z77-EL N	ALKCO CHLORIDE DUAL-LITE EMER-LITE LIGHTALARMIS LIGHTGUARD SURE-LITES	-	5W PER FACE	LED LAMPS, SUPPLIED BY MANUFACTURER	-	-	120	-	RECESSED, WALL, OR CEILING PER DRAWINGS	DECORATIVE EDGE LIT ACRYLIC PANEL EXIT SIGN WITH SINGLE- OR DOUBLE-FACE AS INDICATED ON THE DRAWINGS. RED LETTERS AND MIRROR BACKGROUND. SELF DIAGNOSTICS, UNIVERSAL ARROWS, AND UNIVERSAL MOUNTING. LUMINAIRE SHALL COMPLY WITH NFPA 101-2003 SECTION 7.10. VISIBLE LED LAMPS ARE NOT ACCEPTABLE. PROVIDE INTEGRAL MAINTENANCE-FREE BATTERY PACK SAME AS LUMINAIRE TYPE "E" EXCEPT WITH EMERGENCY BATTERY BALLAST OR DRIVER. SEE LUMINAIRE TYPE FOR EMERGENCY BATTERY BALLAST OR DRIVER LUMEN OUTPUT.
"E"											



HILTON HEAD ISLAND FIRE STATION NO. 2

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E301 LUMINAIRE SCHEDULE

14638

JLZ

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SK-E-009

NOT TO SCALE

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

DESIGNATION	FLA	KW	HP	VOLTAGE	NO. OF POLES	FEEDER	PANEL	CIRCUIT	DISCONNECT (NOTE 1)	NOTES
DUCTLESS SPLIT SYSTEMS										
DSS-1 & WU-1	12.2	-	-	208	2	2#12 AND 1#12 G - 0.5" C	HP	10,12	30/2/NF/3R	2,3
DSS-2 & WU-2	12.2	-	-	208	2	2#12 AND 1#12 G - 0.5" C	HP	14,16	30/2/NF/3R	2,3
DSS-3 & WU-3	12.2	-	-	208	2	2#12 AND 1#12 G - 0.5" C	HP	18,20	30/2/NF/3R	2,3
ELECTRIC UNIT HEATERS										
EUH-1	11	-	-	208	2	2#12 AND 1#12 G - 0.5" C	HP	2,4	30/2/NF	2
EUH-2	11	-	-	208	2	2#12 AND 1#12 G - 0.5" C	HP	6,8	30/2/NF	2
FAN COIL UNITS										
FCU-1	5.4	-	-	208	2	2#12 AND 1#12 G - 0.5" C	MDP	6	30/2/NF	2
FCU-2	8.5	-	-	208	2	2#12 AND 1#12 G - 0.5" C	MDP	8	30/2/NF	2
FCU-3	5.4	-	-	208	2	2#12 AND 1#12 G - 0.5" C	MDP	10	30/2/NF	2
FCU-4	33.5	-	-	208	2	2#6 AND 1#8 G - 1.25" C	MDP	12	60/2/NF	2
FANS										
EF-1A	-	0.786	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	7	30/1/NF	2
EF-1B	-	0.786	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	9	30/1/NF	2
EF-1C	-	0.786	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	11	30/1/NF	2
EF-1D	-	0.786	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	13	30/1/NF	2
EF-2	-	0.121	-	120	1	2#12 AND 1#12 G - 0.5" C	RP	34	30/1/NF	2
EF-4	-	0.113	-	120	1	2#12 AND 1#12 G - 0.5" C	RP	32	30/1/NF	2,4
EF-5	-	0.049	-	120	1	2#12 AND 1#12 G - 0.5" C	RP	32	30/1/NF	2,4
EF-6	-	0.053	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	17	30/1/NF	2
EF-7	-	0.113	-	120	1	2#12 AND 1#12 G - 0.5" C	RP	36	30/1/NF	2,4
EF-8	-	0.113	-	120	1	2#12 AND 1#12 G - 0.5" C	RP	36	30/1/NF	2,4
HEAT PUMPS										
HP-1	23.6	-	-	208	2	2#8 AND 1#10 G - 1" C	MDP	5	60/2/NF/3R	2
HP-2	36.6	-	-	208	2	2#6 AND 1#8 G - 1.25" C	MDP	7	60/2/NF/3R	2
HP-3	23.6	-	-	208	2	2#8 AND 1#10 G - 1" C	MDP	9	60/2/NF/3R	2
HP-4	32	-	-	208	2	2#8 AND 1#10 G - 1" C	MDP	11	60/2/NF/3R	2
INFRARED HEATERS										
IRH-1	1.8	-	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	15	30/1/NF	2
IRH-2	1.8	-	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	15	30/1/NF	2
IRH-3	1.8	-	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	15	30/1/NF	2
IRH-4	1.8	-	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	15	30/1/NF	2
KITCHEN EXHAUST HOOD										
RH-1	6	-	-	120	1	2#12 AND 1#12 G - 0.5" C	RP	10	-	
WATER HEATERS										
WH-1	0.74	-	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	5	30/1/NF	2
WH-1	0.74	-	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	5	30/1/NF	2
WH-1	0.74	-	-	120	1	2#12 AND 1#12 G - 0.5" C	HP	5	30/1/NF	2

NOTES:

- IF EQUIPMENT IS PROVIDED WITH INTEGRAL DISCONNECT, AN ADDITIONAL DISCONNECT IS NOT REQUIRED EXCEPT FOR EXTERIOR LOCATIONS WHERE VFD OR STARTER IS LOCATED INDOORS, THEN SEPARATE DISCONNECT SHALL BE PROVIDED.
- LOCATE DISCONNECT OR VFD IN AN ACCESSIBLE LOCATION WITHIN SIGHT OF EQUIPMENT PER NFPA 70 REQUIREMENTS. DISCONNECT SHALL BE INDEPENDANTLY SUPPORTED AND NOT SECURED TO MECHANICAL EQUIPMENT OR DUCTWORK.
- DUCTLESS SPLIT SYSTEM INDOOR UNIT POWERED BY EXTERIOR UNIT. POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS TO BE INSTALLED BY MECHANICAL CONTRACTOR.
- EXHAUST FAN CONTROLLED BY SPACE LIGHTING CONTROLS.



HILTON HEAD ISLAND FIRE STATION NO. 2

65 LIGHTHOUSE RD.
HILTON HEAD ISLAND, SC 29928

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E101 ELECTRICAL SCHEDULES

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SK-E-010

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PANELBOARD "RP" SCHEDULE

VOLTAGE: 120/208 Wye
 PHASES: 3
 WIRE: 4

SCCR: 10,000
 BUS: 250 A
 MAIN: MLO

SECTION(S): 1
 MOUNTING: RECESSED
 LOCATION: CORRIDOR 130

DESCRIPTION	CB	WIRE	GND	COND	CKT	A	B	C	CKT	COND	GND	WIRE	CB	DESCRIPTION		
(AFCI) RCPT-OFFICE	20/1P	2#12	#12	0.5"	1	0.9	0.5		2	0.5"	#12	2#12	20/1P	KITCHEN-RCPT		
(AFCI) RCPT-CORR WORKSTATIONS	20/1P	2#12	#12	0.5"	3		1.1	0.5	4	0.5"	#12	2#12	20/1P	KITCHEN-RCPT		
(AFCI) RCPT-VES. COR, ICE, PPE, DECO	20/1P	2#12	#12	0.5"	5			1.3	6	0.5"	#12	2#12	20/1P	KITCHEN-RCPT		
(AFCI) RCPT-DAYROOM	20/1P	2#12	#12	0.5"	7	0.9	0.4		8	0.5"	#12	2#12	20/1P	KITCHEN-RCPT		
(AFCI) RCPT-EXERCISE EQUIPMENT	20/1P	2#12	#12	0.5"	9		1.0	0.7	10	0.5"	#12	2#12	20/1P	KITCHEN EXHAUST HOOD RH-1		
(AFCI) RCPT-EXERCISE EQUIPMENT	20/1P	2#12	#12	0.5"	11			1.0	12	--	--	--	--	SPARE		
(AFCI) RCPT-EXERCISE EQUIPMENT	20/1P	2#12	#12	0.5"	13	1.0	0.5		14	0.5"	#12	2#12	20/1P	RH-1 FIRE SUPPRESSION		
(AFCI) RCPT-EXERCISE	20/1P	2#12	#12	0.5"	15		0.9	1.2	16	0.5"	#12	2#12	20/1P	GARBAGE DISPOSAL (GFCI)		
(AFCI) RCPT-DINING	20/1P	2#12	#12	0.5"	17			0.9	18	0.5"	#12	2#12	20/1P	DISHWASHER (GFCI)		
(AFCI) RCPT-CORR, TOILET, LAUNDRY	20/1P	2#12	#12	0.5"	19	0.7	0.7		20	0.5"	#12	2#12	20/1P	1-DOOR REFRIGERATOR-RCPT		
(AFCI) RCPT-BUNK	20/1P	2#12	#12	0.5"	21		0.9	0.8	22	0.5"	#12	2#12	20/1P	2-DOOR REFRIGERATOR-RCPT		
(AFCI) RCPT-BUNK	20/1P	2#12	#12	0.5"	23			1.8	24	2.6	24			OVEN (GFCI)(ST)		
RCPT-EXTERIOR	20/1P	2#12	#12	0.5"	25	1.4	2.6		26					(SHUNT TRIP MODULE)		
GEN-O BATTERY CHARGER	20/1P	2#12	#12	0.5"	27		0.5	0.0	28	--	--	--	--	STOVE-RCPT (ST)		
GEN-O JACKET WATER HEATER	20/2P	2#12	#12	0.5"	29			0.1	30	0.5"	#12	2#12	20/1P	STOVE-RCPT (ST)		
					31	0.1	1.2		32	0.5"	#12	2#12	20/1P	WEST CORR, OFF, TOILET, ICE, PPE, DECO		
EV CHARGING STATION	40/2P	2#8	#10	1"	33		3.6	1.2	34	0.5"	#12	2#12	20/1P	PPE, DECON, DAY, DIN, KIT-LTG, EF-2		
					35			3.6	36	0.5"	#12	2#12	20/1P	LAUNDRY-BUNKS, TOILET-CORR, LTO		
(AFCI) RCPT-TOILET, OFFICER	20/1P	2#12	#12	0.5"	37	0.9	1.8		38	0.5"	#12	2#12	20/1P	WASHER		
(AFCI) RCPT-BUNK	20/1P	2#12	#12	0.5"	39		1.4	2.2	40							
(AFCI) RCPT-DINING, DAYROOM	20/1P	2#12	#12	0.5"	41			1.3	42	2.2	42	0.75"	#10	3#10	30/2P	DRYER
SPARE	--	--	--	--	43	0.0	2.2		44							
SPARE	--	--	--	--	45			0.0	46	0.75"	#10	3#10	20/2P	DECON DRYER		
SPARE	--	--	--	--	47				48	0.5"	#12	2#12	20/1P	ICE MAKER		
SPARE	--	--	--	--	49	0.0	0.4		50	0.5"	#12	2#12	20/1P	RIP&RUN-RCPT		
SPARE	--	--	--	--	51			0.0	52	--	--	--	--	SPARE		
SPARE	--	--	--	--	53				54	--	--	--	--	SPARE		
SPACE	--	--	--	--	55	0.0	0.0		56	--	--	--	--	SPACE		
SPACE	--	--	--	--	57			0.0	58	--	--	--	--	SPACE		
SPACE	--	--	--	--	59				60	--	--	--	--	SPACE		
PHASE TOTALS:						16.2	18.3	19.0								
CONNECTED AMPERES:			148.3			CONNECTED KVA:			53.4							
DEMAND AMPERES:			130.4			DEMAND KVA:			47.0							

NOTES:

- ALL SPARE CIRCUIT BREAKERS SHALL BE 20/1 UNLESS OTHERWISE NOTED.
- (ST) INDICATES CIRCUIT BREAKER SHALL BE SHUNT TRIP TYPE.
- (AFCI) INDICATES CIRCUIT BREAKER SHALL BE ARC-FAULT CIRCUIT-INTERRUPTER TYPE.
- (GFCI) INDICATES CIRCUIT BREAKER SHALL BE GROUND-FAULT CIRCUIT-INTERRUPTER TYPE.
- SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E310 FOR CONDUCTOR AND CONDUIT SIZE.



HILTON HEAD ISLAND FIRE STATION NO. 2

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E101 ELECTRICAL SCHEDULES

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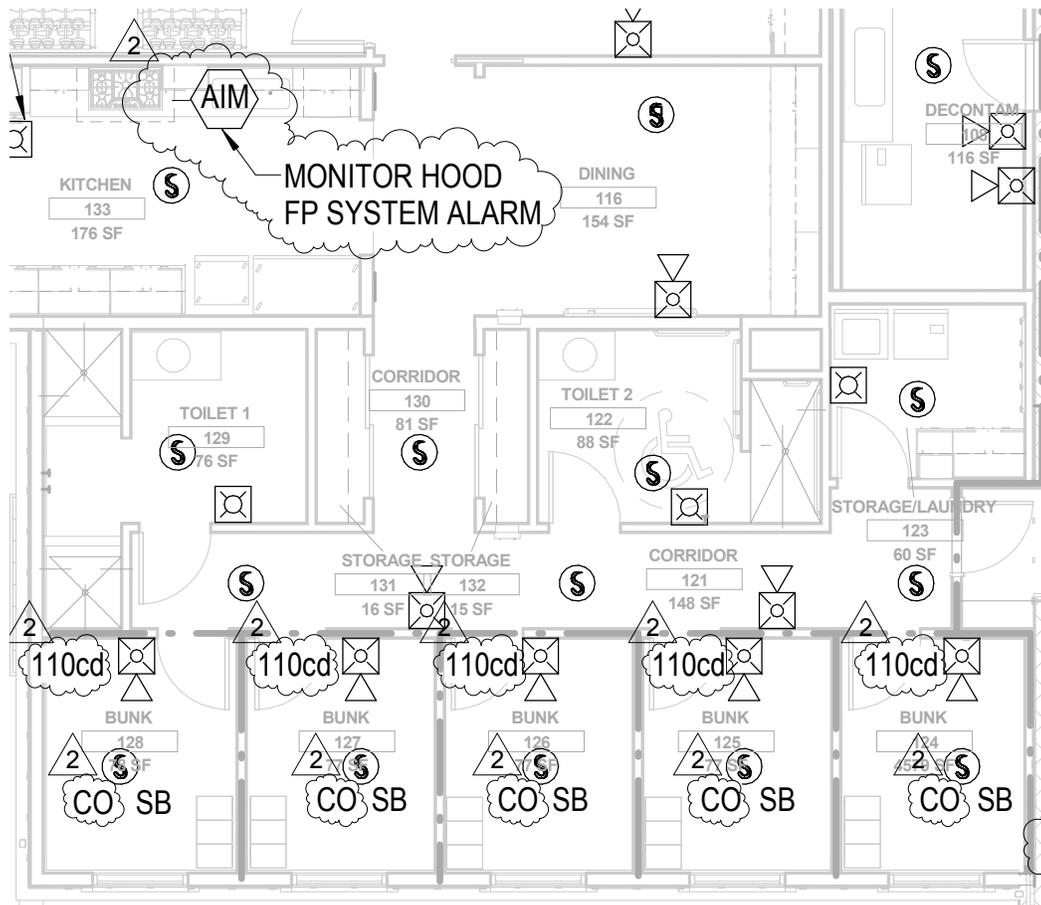
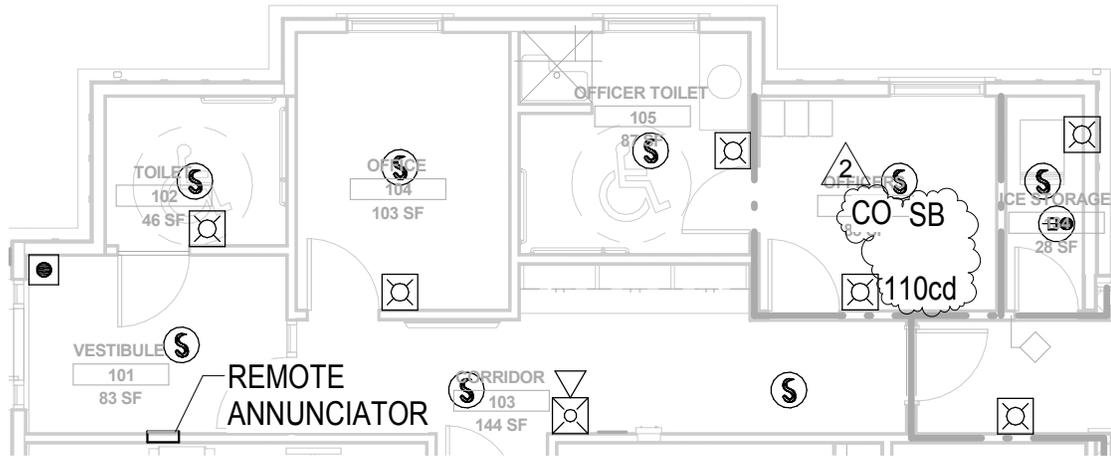
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**HILTON HEAD ISLAND
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**FIRE ALARM DRAWING
FA101**

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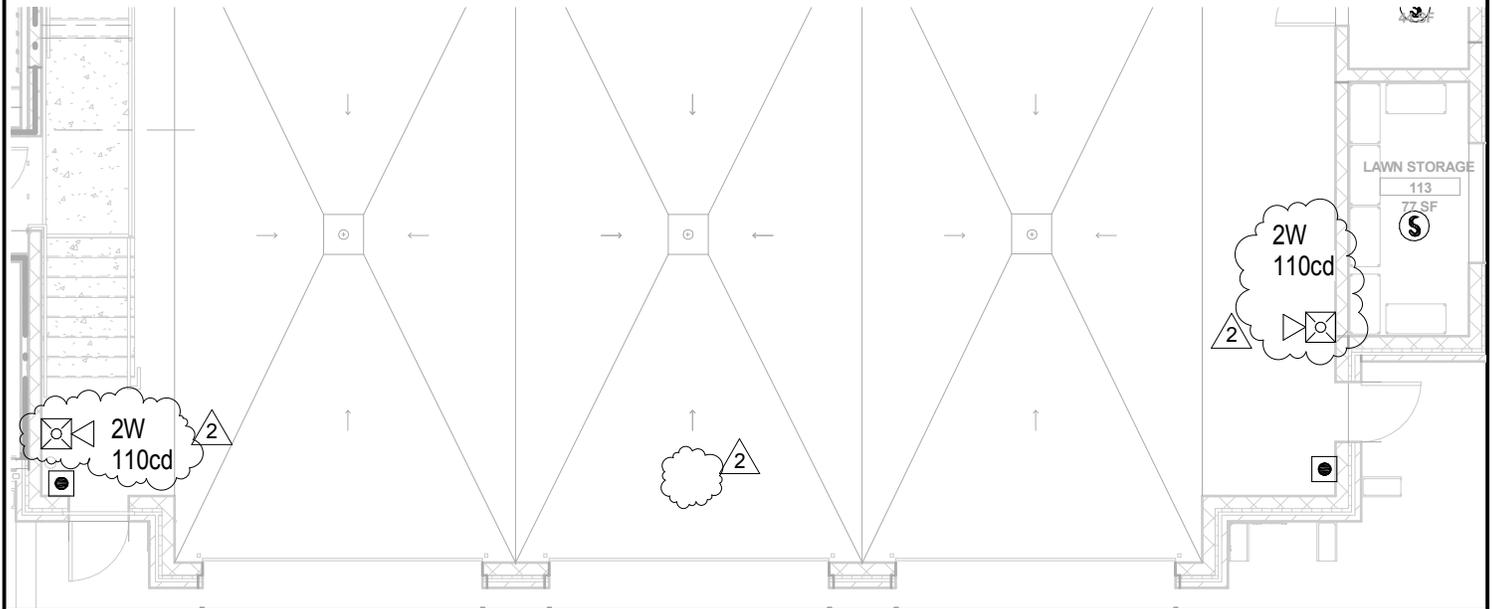
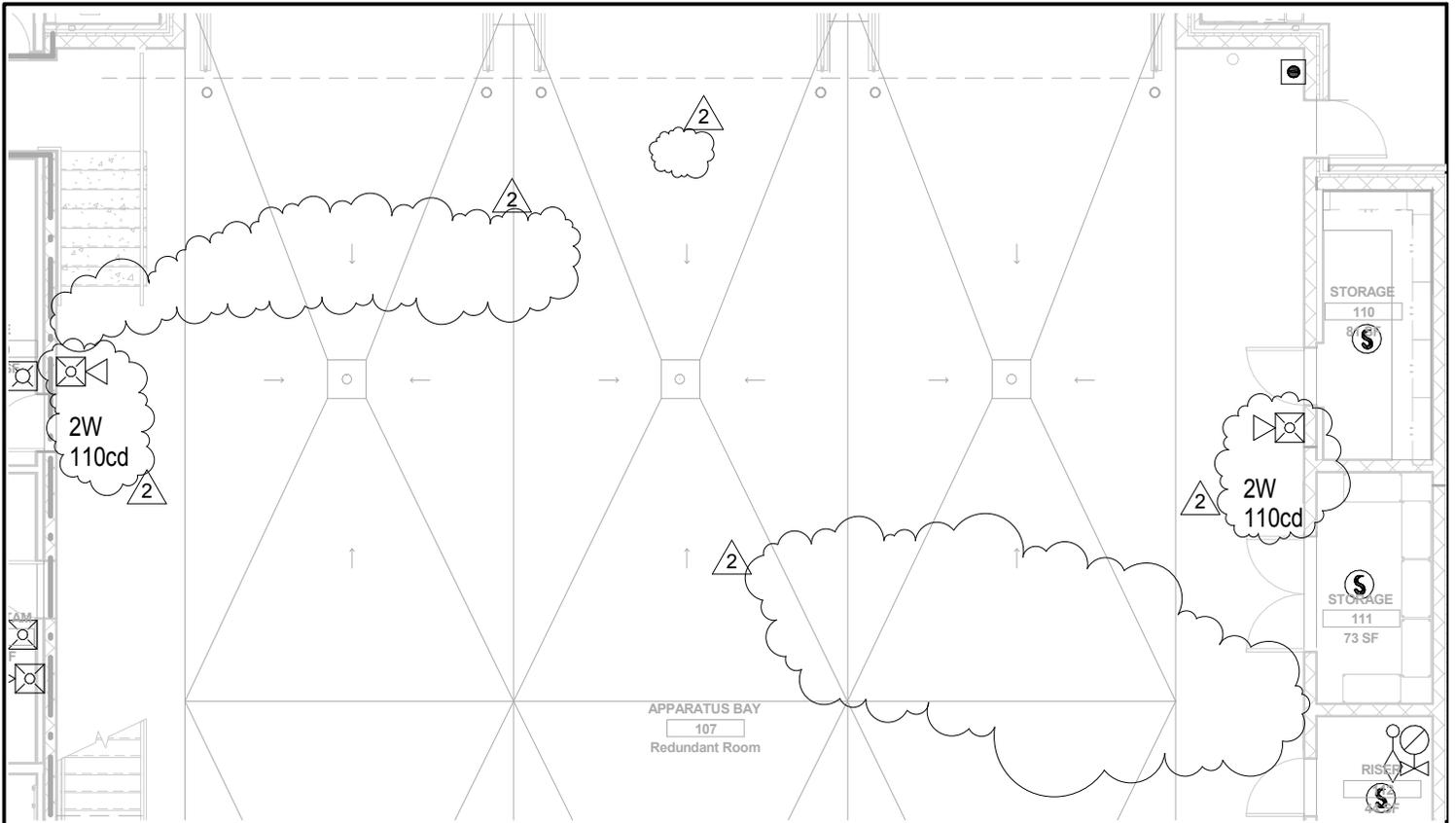
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FIRE STATION NO. 2**

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**FIRE ALARM DRAWING
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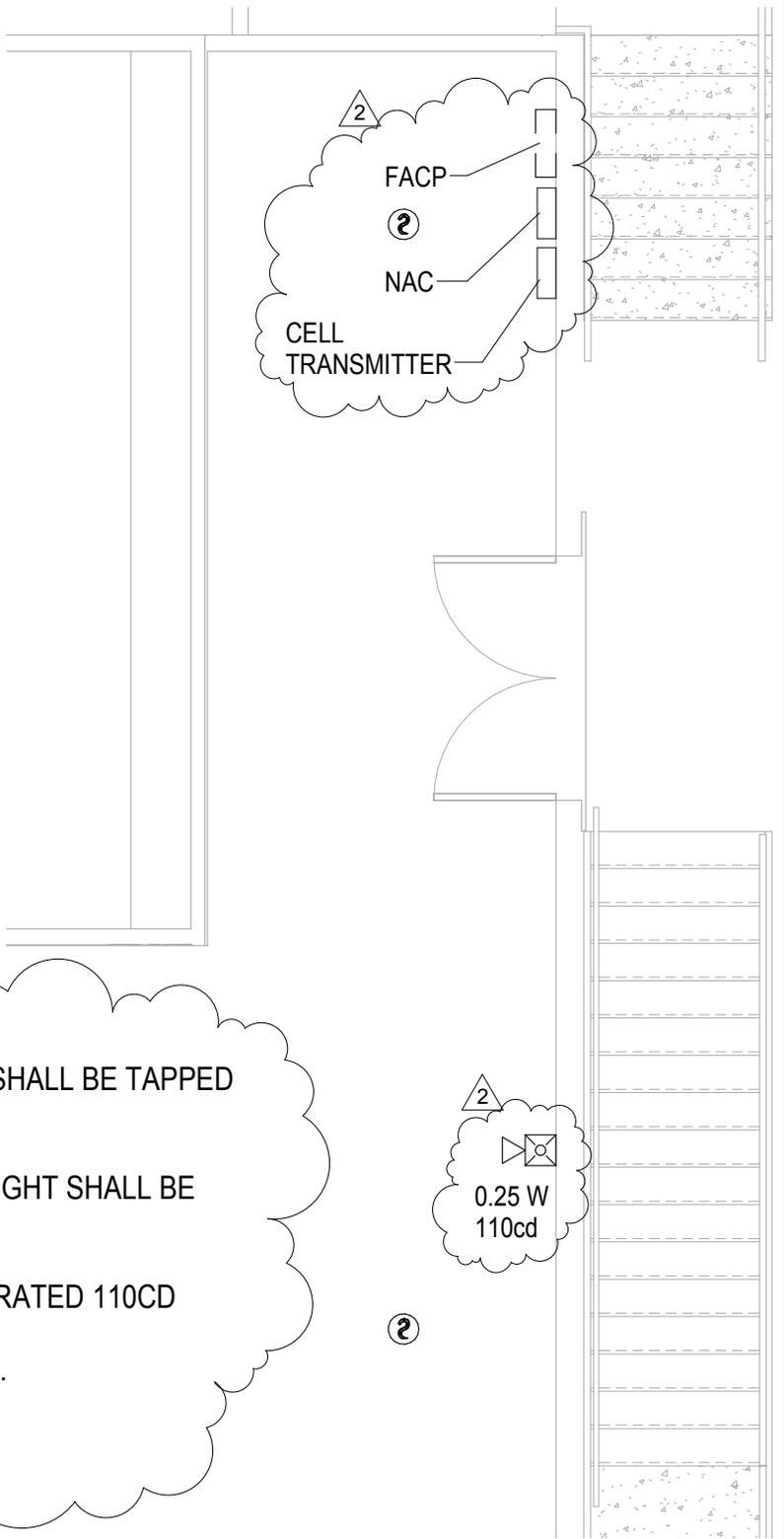
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SK-FA-002

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NOTES:

- ② 1. UNLESS NOTED OTHERWISE SPEAKER SHALL BE TAPPED AT 0.25 WATT.
- 2. UNLESS NOTED OTHERWISE, STROBE LIGHT SHALL BE SET AT 15cd.
- 3. STROBE LIGHTS IN BUNK AREAS TO BE RATED 110CD
- 4. THE ALAERT TONE SHALL BE 520 HERTZ.

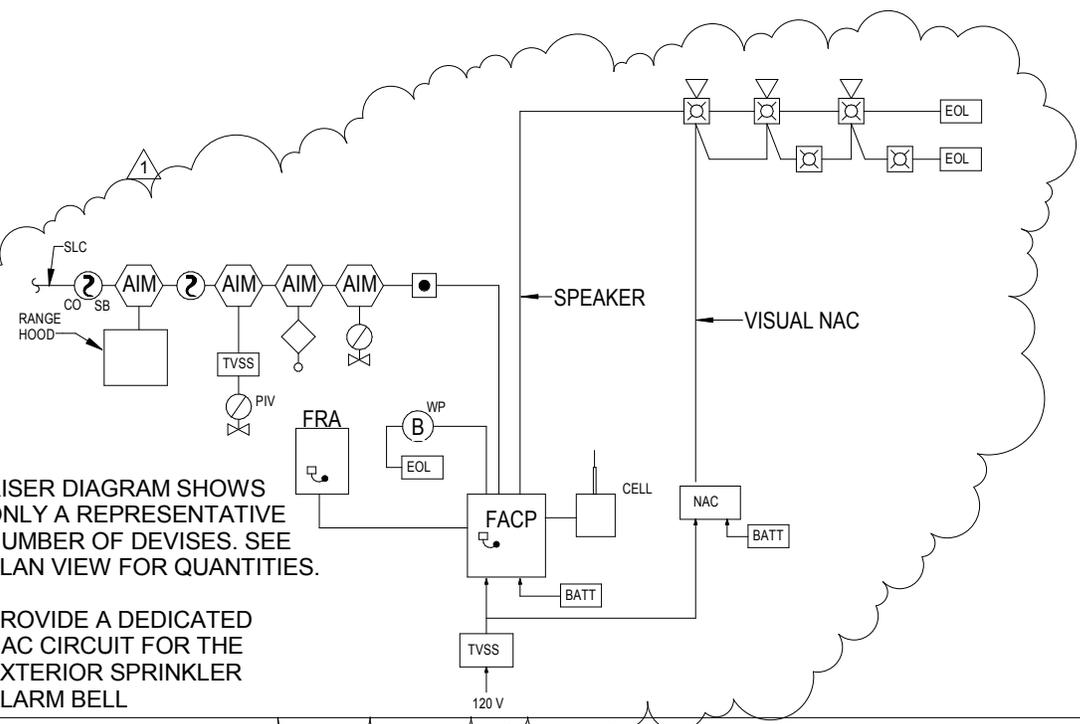


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FIRE ALARM DRAWING FA101 MEZZANINE	
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1. RISER DIAGRAM SHOWS ONLY A REPRESENTATIVE NUMBER OF DEVICES. SEE PLAN VIEW FOR QUANTITIES.
2. PROVIDE A DEDICATED NAC CIRCUIT FOR THE EXTERIOR SPRINKLER ALARM BELL



FIRE ALARM RISER DIAGRAM

NO SCALE

FIRST FLOOR



HILTON HEAD ISLAND FIRE STATION NO. 2

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FA001 FIRE ALARM RISER DIAGRAM

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SYMBOLS:

 WALL-MOUNTED SPEAKER WITH STROBE LIGHT (80" AFF.)

 WALL-MOUNTED STROBE LIGHT (80" AFF.)

 MANUAL PULL STATION

 AREA SMOKE DETECTOR

 WATERFLOW SWITCH

 VALVE TAMPER SWITCH

 ADDRESSABLE INPUT MODULE

 ELECTRIC SPRINKLER WATERFLOW ALARM BELL

 FIRE ALARM CONTROL PANEL

EOL END OF LINE RESISTOR

 WP WEATHER-PROOF ENCLOSURE

 AREA SMOKE DETECTOR WITH SOUNDER BASE AND CARBON MONOXIDE DETECTOR

FRA REMOTE ANNUNCIATOR WITH MICROPHONE



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FA001 FIRE ALARM SYMBOLS LEGEND

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FIRE ALARM I/O SEQUENCE

	DISPLAY MESSAGE ON THE MAIN CONTROL PANEL LCD AND SOUND PANEL AUDIBLE BUZZER	DISPLAY MESSAGE ON THE REMOTE LCD AND SOUND INTEGRAL AUDIBLE BUZZER	RECORD THE EVENT IN THE HISTORY LOG	TRANSMIT CELLULAR ALARM SIGNAL TO THE REMOTE STATION	OPERATE SOUNDER BASE ON THE AFFECTED DETECTOR	TRANSMIT SUPERVISORY CELLULAR SIGNAL TO THE REMOTE STATION	TRANSMIT FACP TROUBLE CELLULAR SIGNAL TO THE REMOTE STATION	BROADCAST FIRE ALARM VOICE MESSAGE ON ALL CIRCUITS	ACTIVATE FIRE ALARM STROBES THROUGHOUT THE BUILDING	BROADCAST LIVE VOICE MESSAGE ON ALL CIRCUITS
MANUAL PULL STATION	●	●	●	●				●	●	
SPRINKLER WATERFLOW SWITCH	●	●	●	●				●	●	
AREA SMOKE DETECTOR WITH SOUNDER BASE	●	●	●		●	●				
CARBON MONOXIDE DETECTOR IN SLEEPING AREA	●	●	●		●					
AREA SMOKE DETECTOR	●	●	●	●				●	●	
RANGE HOOD FP SYSTEM ALARM	●	●	●	●				●	●	
VALVE POSITION MONITOR SWITCH	●	●	●			●				
FIRE ALARM CONTROL PANEL TROUBLE	●	●	●				●			
LIVE VOICE MESSAGE USING EMERGENCY MICROPHONE									●	

NOTE: ALL AIR HANDLING UNITS SERVING THE FIRE STATION HAVE CAPACITIES LESS THAN 2000 CFM AND DO NOT REQUIRE FIRE ALARM INTERFACE.



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FA001 FIRE ALARM SEQUENCE OF OPERATION

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