

ARLINGTON COUNTY, VIRGINIA
AGREEMENT NO. 243-11
AMENDMENT NUMBER 3

This **Amendment Number 3** ("Amendment") is made on 6/12/2023 and amends **Agreement Number 243-11**, dated October 16, 2012 ("Main Agreement") between **Westnet, Inc.**, 15542 Chemical Lane, Huntington Beach, CA 92649 ("Contractor") and the County Board of Arlington County, Virginia ("County").

The County and the Contractor amend certain provisions of the Main Agreement as follows:

- 1. SECTION 3: CONTRACT TERM:**
RETROACTIVELY EXTEND THE AGREEMENT FROM OCTOBER 1, 2022 TO SEPTEMBER 30, 2025 to allow the Contractor to provide construction services (as defined in Exhibit A: Scope of Services). This extension is for the design and construction of the new Fire Station Alerting System (FSA) for Fire Station 8 to be installed and configured to function with the existing County Fire Station Alerting System. The major components of this construction include hardware, installation services, and software configuration for FS8 equipment. Any Construction of additional FSA on future fire stations will require an amendment.
- 2. Exhibit A: SCOPE OF SERVICES is hereby replaced in its entirety. See attached.**
- 3. EXHIBIT B: PRICING is hereby replaced in its entirety . See attached.** The revised exhibit reflects costs associated with the installation of Fire Alerting System for Fire Station 8.
- 4. A new EXHIBIT H: TECHNICAL DRAWINGS is hereby incorporated as part of the agreement.**
- 5. Amend SECTION 6: PAYMENT to read as follows:**
The Contractor must submit invoices to the County's Project Officer, who will either approve the invoice or require corrections. The County will pay the Contractor within 45 days after approval of an invoice for completed work which is reasonable and allocable to the Contract. All payments will be made from the County to the Contractor via ACH. The number of the County Purchase Order pursuant to work has been performed must appear on all invoices.
- 6. Amend SECTION 20. WARRANTY to read as follows:**
The Contractor warrants to furnish the services described herein at the times and places and in the manner and subject to the conditions set forth.
 - A. A one-year full parts and labor warranty is specified. Note that the full one year parts and labor warranty is subject to the terms and conditions of Westnet's Standard Limited Warranty and covers all portions of this system from failure, except for acts of God ,misuse by the owner or owner's third-party representative. During this one-year period, meet the following performance requirements:
 1. Provide 24/7 toll-free technical support and on-site maintenance for all current, existing equipment ("System") under Arlington County Agreement No. 425-04 as of November 1, 2011. If the system at a Fire Station is out of service, the Contractor agrees to provide a response time for a technician to arrive on site not later than the next business day from the time that the Contractor is notified of any problem with the System.

2. Service technicians certified on the specified systems and products.
3. Available 7 days a week, 24 hours a day.

B. The system components shall be guaranteed against all defective materials, design and workmanship for a period of one-year from the date of acceptance by the client after final testing. New replacement parts shall be furnished promptly and defects in design and workmanship shall be corrected, without cost to the Owner, promptly upon receipt of notice from the Owner of failure and confirmation by the Contractor that the part is not working as designed, of any part of the system during the guarantee period.

7. Amend the Project Officer contact information in SECTION 49. NOTICES as follows:

Maire Bourque, Project Officer
Department of Environmental Services – Facilities Design & Construction
1400 N Uhle Street, Suite 403
Arlington, Virginia 22201
Phone (703) 228-0488
Email mbourque@arlingtonva.us

8. Adding a new SECTION 54. SURETY REQUIREMENTS, as agreed by the parties, is hereby added as follows:

PERFORMANCE SURETY – A fully completed and properly executed original Performance Bond in the amount of 100% of Westnet's cost proposal shall be required to ensure that Westnet satisfactorily completes their work. The bond shall be a corporate surety bond issued by a surety company authorized to do business in the Commonwealth of Virginia and acceptable to the County. Where applicable, the Performance Bond shall be renewable annually in the original amount through the completion of the contract, including all warranty and guarantee periods.

9. Adding a new SECTION 55. PERMIT REQUIREMENTS, as agreed by the parties, is hereby added as follows:

Westnet shall make the necessary arrangements for and obtain all filings and permits required to perform the WORK, including the preparation of drawings, sketches, calculations and other documents and information that may be required therefor. If Westnet is required to pay an application fee for filing, a fee to obtain a Building permit, a fee to obtain a Trade permit or any other permit fee, then the amount of a such fee paid by Westnet for which a receipt is obtained shall be treated as a Reimbursable Task to be paid with mark-up. The County shall pay all such fees with a 10% mark-up to Westnet, including Westnet labor hours, for all filings and permits required and obtained. To get reimbursed, Westnet shall submit written documentation of such fees. The 10% mark-up shall cover all costs over and above the filing and permit fees. The cost of expediting services or equipment use fees are not reimbursable.

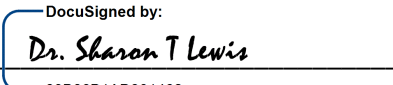
All other terms and conditions of the Main Agreement shall remain unchanged.

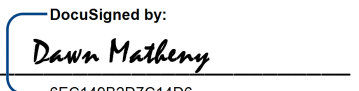
WITNESS these signatures:

THE COUNTY BOARD OF ARLINGTON

WESTNET, INC.

COUNTY, VIRGINIA

AUTHORIZED
SIGNATURE:  DocuSigned by:
89B86B1AD301462...
NAME: Dr. Sharon T Lewis
TITLE: Purchasing Agent
DATE: 6/12/2023

AUTHORIZED
SIGNATURE:  DocuSigned by:
6EC149B2D7C14D6...
NAME: Dawn Matheny
TITLE: Chief Financial Officer
DATE: 6/12/2023

ARLINGTON COUNTY AGREEMENT 243-11

EXHIBIT A

NEW INSTALLATION FOR
FIRE STATION 8

AS REVISED BY CONTRACT
AMENDMENT 3

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Introduction

This project is for the design and construction of the new Fire Station Alerting System (FSA) for Fire Station 8 to be installed and configured to function with the existing County Fire Station Alerting System. The major components of this construction include hardware, installation services, and software configuration for FS8 equipment.

References

The Codes and Regulations listed below form a part of this specification to the extent referenced. Work shall be performed in accordance with the applicable international, federal, state, and local codes or standards current at the commencement of installation. The following list summarizes applicable standards:

1. Underwriter's Laboratories UL-1069.
2. Electronics Industry Association / Telecommunications Industry Association.
3. National Electrical Code.
4. U.S. Dept. of Labor / Occupational Safety and Health Administration.
5. National Fire Protection Association 1221.

Where more than one code or regulation is applicable, the more stringent shall apply. Cable and equipment installation, identification and termination shall be performed in accordance with the applicable codes above.

Hardware & Installation Services

Hardware requiring installation are identified in the attached quote and shall be installed in conformance with the attached technical drawings and as required to provide a complete functioning system. The Contractor shall coordinate layout and installation of Station Alerting System equipment with all other disciplines and trades.

Software Configuration & Interfaces

Upon successful installation and passing of reliability period, all FSA System components shall be covered by existing Maintenance Agreement 23-FIR-SLA-411. All software upgrades shall be subject to the Software Change Control Methodology described within the Maintenance Agreement Scope of Services. This system shall be capable of interfacing to, and receiving alerts from a data network, radio network, and two-tone paging system. The system shall be based on standard EIA/TIA 568-B Category 5 data network cabling.

Timely Communication

Time is of the essence with this project, so County and Contractor agree to respond to one another no more than 2 business days from receipt of any written communications (digital such as email, or physical letter).

Project Schedule & Milestones

Design Submissions and Reviews

For all new construction work, the Contractor shall provide coordination and input during the different design phases as described below:

Schematic Design

Following completion of the Schematic Design, the County will forward their Architect and Engineer's (A/E's) Schematic Design Drawings to Contractor, who will perform their required programming and develop the design. Contractor will be given 10 days to perform programming, develop the design, and return the drawings to the County or their agent.

Design Development

Following receipt of Contractor's initial programming during Schematic Design, the A/E will incorporate the Contractor equipment into the design developed during the Design Development (DD) phase. The A/E will include Westnet's drawings in the set, and coordinate the locations of the equipment, but shall not be required to reproduce the design except to show coordination of the locations of equipment.

The Contractor shall anticipate receiving a Progress set of drawings from the County at the end of the DD phase, which the Contractor shall review and mark up designs with their review comments and return to the County within 10 days of receipt. The contractor shall update their drawings.

Construction Documents

Following receipt of Contractor's DD review comments, the A/E will prepare Construction Documents (CD) and incorporate Contractor's comments. The Contractor shall anticipate receiving a Progress set of drawings from the County during the CD phase, which the Contractor shall review and mark up with their review comments and return to the County within 10 days of receipt. The contractor shall update their drawings.

Milestone 1: Hardware Configuration & Delivery

- 1) Contractor shall configure all hardware based on Arlington County current configurations for hardware. Where new information is required, County will provide the required configuration information within 10 days of Amendment Execution.
- 2) Contractor shall have 30 days from confirmation of successful submission by the County of all required information, to complete the following:
 - a. Factory Configuration and Provisioning
 - i. Configuration Sign-Off
 - ii. Dispatch Server and Workstation Staging
 - iii. RIC Configuration and Testing
 - iv. MCU Configuration and Testing
 - v. System Level Integration Testing
 - b. Shipment of equipment to local offices
- 3) County shall not be required to submit documentation detailing anything other than specifications for FS8. FS8 shall conform to the existing County standards.
- 4) Until the resources are confirmed as scheduled for mobilization with the County, this milestone will be considered incomplete.

Milestone 2: Installation

Installation shall be coordinated with the designated contacts from the following County agencies: Fire Department, Dept. of Environmental Services (DES) and Public Safety Information Technology (PSIT) equipment for each station.

Installation shall conform with DES guidelines, and at a minimum Contractor shall:

- 1) Following issuance of the Building Permit, be responsible for obtaining Trade Permit from County Inspection Services Division (ISD) for their work,
- 2) Verify all the following conditions and requirements for County infrastructure (e.g., conduits, junction boxes, etc.) are met and in compliance before walls are closed in:
 - a. Ensure all cabling is installed in rigid conduit (by others),
 - b. Ensure all cabling installed above ceilings is plenum-rated cable and installed in cable tray or on J Hooks.
 - c. No surface-mounted conduit is permitted.
- 3) Coordinate wall and ceiling inspections with General Contractor and the County's Inspection Office (ISD).
- 4) Only manufacturer's trained installers shall install, service, and maintain the specified system.
- 5) Mount equipment and enclosures plumb, level, straight and square. Mount enclosures onto plywood backboards securely mounted to the wall and painted to match the wall surface.
- 6) Permanently install equipment to be firmly and safely held in place. Fastenings and supports shall be adequate to support their loads with a safety factor of at least three. All equipment shall be installed in a fashion as to present no safety hazard to operating personnel.

Electrical, Cabling and Conduit Installation Requirements

- 1) Wires shall be in dedicated conduit separate from the low voltage security conduit. AC power shall not be run in conduit containing signal wires. Lines in conduit shall not be spliced.
- 2) Coordinate with the general contractor and division 26 electrical to assure that conduit is properly installed and coordinated including but not limited to conduit at doors which must be properly installed before doors are set and grouted and other conduits used by the protection systems.
- 3) Wiring and Cable: Wiring shall be neat and sturdy. Wires shall not be bent sharply where they enter insulating material. Wires and conduit shall be properly placed in conduit and supported to prevent undue stress on the conductors and terminals and prevent any undue change in the position of conductors. All wires shall be tagged and coded indicating their use. Each tag shall clearly state its use. It should note the alarm zone and/or point code number and transponder number. Tags shall be placed with such frequency as to enable easy tracing of wires. AC power shall not be run in conduit containing signal cables. Lines in conduit shall not be spliced.
- 4) Cable Identification: All wires shall be color coded and color codes shall be maintained throughout. Record drawings shall indicate color codes if they deviate from a standard plan. Data cables shall be labeled on each end for identification.
- 5) Use solderless crimp on connectors in a secure manner installed according to the manufacturer's recommendations.
- 6) Ground the system according to the manufacturer's recommendations and detail the method in your submittals.

Provide all wires and all installation of wires and all cabinets, control and detection equipment and similar equipment, unless noted otherwise.

Transition from Temporary FS8 to New Permanent FS8

During the design phase the Contractor shall have a qualified Contractor representative walk through the temporary facility and inventory the existing equipment. Following the walkthrough / inventory assessment, the Contractor shall provide, as a minimum, the following:

- 1) Written recommendations for what existing equipment can be transferred to and re-used in the permanent station should the County desire to transfer and re-use any of the existing equipment. Equipment to be considered for re-use must result in minimal downtime between the transfer from the temporary to the permanent station.
- 2) Provide a written Transition Plan that includes details of how a smooth transition can occur with minimal or no disruption of services and operations. Detailed plan should include dates, sequencing, and other measures necessary to ensure continuity of operations for the Fire Department.

Final Submittals:

As-Built Drawings: During system installation, contractor to maintain a separate hard copy set of drawings, elementary diagrams, and wiring diagrams of the SMS to be used for record drawings. This set shall be accurately kept up to date by the Contractor with all changes and additions to the SMS. The contractor shall provide copies of the final as-built drawings to the County per paragraph 10 (section 53 of the contract) in amendment #2 to the contract between The County and Westnet.

Milestone 3: System Testing, Training & Acceptance

- 1) System Testing & Acceptance shall begin and complete no later than 10 business days from occupancy of new permanent FS8.
- 2) System Testing and Acceptance shall include unit and integration testing of all equipment for FS8.
- 3) Also included in the final acceptance, Contractor shall obtain written approval from the Fire Department's Communication Officer (FDCO) regarding a fully functioning Contractor system.
- 4) PSIT shall review and approve status of network connectivity and manage coordination with DTS for any troubleshooting.
- 5) Upon completion of their installation, Contractor shall provide as-built drawings of their installed work. This can be accomplished by Contractor marking up (red lining) the approved permit drawings anywhere their installation differs from what was shown on the approved drawings.
- 6) Should the General Contractor and/or ISD cite concerns with Contractor's installed work, Contractor shall be responsible for making the necessary corrections to their work subject to County Project Officer's review and approval of the completed work.

Milestone 4: System Reliability: Hardware/Software

The purpose of the Reliability Test, as part of the overall System acceptance requirements, is to demonstrate the operational capability and reliability of the System and System Components for the new Permanent FS8.

- 1) The Reliability Test will be conducted at the successful completion of System Testing and Acceptance.
- 2) To complete the Reliability Test successfully the following must occur:
 - a. All Systems and System Components for FS8 must demonstrate full availability for 30 consecutive calendar days.
 - This includes endpoint mapping displaying street views accurately.
 - b. System and System Component performance will continue to meet the Performance requirements of the Contract, as tested, or verified by County personnel at any time.
- 3) If the System or any System Component falls below the required availability mark, the Reliability Test will be stopped. At this time the Contractor should correct any deficiencies in preparation for a retest. If the deficiencies are of such severity that the retest cannot be initiated within fifteen (15) calendar days of the initial failure, the Contractor should prepare a correction plan that details the reason for the failure and proposed correction.
- 4) The Contractor will have three (3) opportunities to complete the Reliability Test over a period of 120 (One-hundred and twenty) calendar day period. In the event the Contractor is unable to complete the reliability testing within 120 calendar days from completion of System Testing & Acceptance, Contractor shall forfeit the reliability payment.

Milestone 5: System Reliability: Automated Voice Dispatch (AVD)

The purpose of the Reliability Test, as part of the overall System acceptance requirements, is to demonstrate the operational capability and reliability of the System and System Components for the new Permanent FS8.

- 1) The Reliability Test will be conducted at the successful completion of System Testing and Acceptance.
- 2) To complete the Reliability Test successfully the following must occur:
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 - This includes endpoint mapping displaying street views accurately.
 - b. System and System Component performance will continue to meet the Performance requirements of the Contract, as tested, or verified by County personnel at any time.
- 3) If the System or any System Component falls below the required availability mark, the Reliability Test will be stopped. At this time the Contractor should correct any deficiencies in preparation for a retest. If the deficiencies are of such severity that the retest cannot be initiated within fifteen (15) calendar days of the initial failure, the Contractor should prepare a correction plan that details the reason for the failure and proposed correction.
- 4) The Contractor will have three (3) opportunities to complete the Reliability Test over a period of 120 (One-hundred and twenty) calendar day period. In the event the Contractor is unable to complete the reliability testing within 120 calendar days from completion of System Testing & Acceptance, Contractor shall forfeit the reliability payment.

EXHIBIT B - PRICING


WESTNET

15542 Chemical Lane
Huntington Beach, CA 92649
Phone: 714-548-3500 Fax: 714-901-5610
www.FirstInAlerting.com



Quote: Arlington New Fire Station #8 First-In Alerting Smart Station System Revised 4

To: Arlington County Fire Department
From: Zulema Perez

Arlington County Fire Department

2100 Clarendon Blvd., Ste 400

Arlington, VA 22201

Contact:

Summary

Total Amount: **\$539,629.07** Quote ID: Q-07954-Z4Z2 Revision: 5

Shipping Method: Ground Date: 12/21/2022

Payment Terms: Net 30 Effective To: 3/1/2023

Description: This quote is for Arlington New Fire Station #8 First-In Alerting Smart Station System including installation and technical support.

Clarifying Comments: This quote is based upon installation occurring in one (1) trip. If the station is not ready and additional trips are required, customer agrees to pay additional fees. Customer is responsible for all network connectivity between dispatch and station, as well as the CAD interface if network activation is desired. Customer is responsible to have the network equipment and power within 6 feet of the Master Control Unit and radio location. Quote does not include conduit of more than 20 feet, if required. Customer to provide VPN access to Westnet for remote adjustments and support.

Customer is responsible for the difference in sales and use tax if applicable. Payment terms are net 30 with payment milestones.

Quote was revised 9/23/2021 to update quote to match drawing revision dated 9/20/2021.

Quote was revised 6/6/2022 to update pricing and the effective to date.

Quote was revised 12/1/2022 to update the effective to date and pricing and add the Bond Fee.

Quote was revised 12/21/2022 to remove the sales tax.

Shipping Information

Ship To:
Bill To:

Details

Product ID	Product	QTY	Price	Sub Total
2U-SLT-SH-KIT	2U Slotted Shelf - Kit	8.00	\$85.00	\$680.00
APP-DUAL-KL	Apparatus Bay Dual Knight Light Strips	25.00	\$1,393.80	\$34,845.00
DLSP	MCU Data Line Surge Protector	1.00	\$95.00	\$95.00
DL-STROBE-BB	Dorm Light / Strobe Light Back Box - Kit	4.00	\$34.50	\$138.00
FIAP-ISS	FIAP Information System Software	1.00	\$6,475.00	\$6,475.00
FIN-AUX-L01	First-In MCU Auxiliary Module Lite	1.00	\$635.00	\$635.00
FIN-Eth-T10	Ethernet Data Activated First-In Type 10 MCU	1.00	\$9,495.95	\$9,495.95
FINISO4P	Radio Isolation Unit - Four Channel	1.00	\$831.00	\$831.00
FIS-SDP-32-TCH-MAP	Information System 32" Touch Screen Display Point with Mapping	8.00	\$3,956.86	\$31,654.88
FIS-SDP-40-MAP	Information System 40" Non-Touch Display Point with Mapping	3.00	\$2,775.00	\$8,325.00
FRMKit-Dual	MCU and Radio Rack Mount Kit	1.00	\$193.95	\$193.95

Product ID	Product	QTY	Price	Sub Total
HPA-200	High Power Paging Audio Module (includes one speaker)	1.00	\$1,875.00	\$1,875.00
HPA-200D	High Power Paging Audio Module (includes two speakers)	2.00	\$2,175.49	\$4,350.98
RK-WM-1U	Wire Management - 1 Unit - Kit	8.00	\$65.00	\$520.00
SCR26-24VC5	Control Remote (each controls up to 8 functions)	1.00	\$1,175.95	\$1,175.95
SDBS1	Doorbell Button	2.00	\$225.00	\$450.00
SDRM38V-FM-2192	Dorm Remote - Flush Mount Kit also required	12.00	\$898.25	\$10,779.00
SDRMKIT-TBD	Dorm Remote Mounting Kit - TBD	12.00	\$218.25	\$2,619.00
SKL-LS	Knight Light Strip (7.5 ft.)	77.00	\$584.80	\$45,029.60
SPC28-HS-1K2PS	Power Module w/ Hub & Spoke Controller, UPS & Dual Power Supplies	4.00	\$2,255.99	\$9,023.96
SPC28-PL-1K2PS	Power Module w/ Light Controller, UPS & Dual Power Supplies	4.00	\$1,972.00	\$7,888.00
SS-AST-LF	Alerting Strobe Light Fixture	4.00	\$225.00	\$900.00
SSAT	Satellight (driven off Satellight Controller)	38.00	\$295.00	\$11,210.00
SSATKIT-TBD	Satellight Mounting Kit - TBD	71.00	\$48.00	\$3,408.00
SSAT-M	Satellight Controller	33.00	\$599.98	\$19,799.34
SS-CI5C-M	Company Indicator (Apparatus Bay) Medium 17.37 inch	3.00	\$825.00	\$2,475.00
SS-CI5C-M-OS	Company Indicator (Outside) Medium 17.37 inch	5.00	\$950.00	\$4,750.00
SSETS	Emergency Button	2.00	\$225.00	\$450.00
SSPK-SW-M	Smart Station Speaker Switch - Main	3.00	\$225.00	\$675.00
SS-SLA-4L	Alerting Strobe Light Adaptor	1.00	\$95.00	\$95.00
SS-TAM-S	Tone Alerting Module (includes one speakers)	3.00	\$598.98	\$1,796.94
SS-TIM-01	Telephone Interface Module	1.00	\$1,199.95	\$1,199.95
SVC-LIFT+1D	Lift Service Fee for Additional Day	2.00	\$245.00	\$490.00
SVC-LIFT-FEE	Lift Service Fee	2.00	\$1,350.00	\$2,700.00

NOTES:

1. In the event that taxes, other than sales tax apply to the purchase of this equipment, said taxes will be paid by the customer.
2. Quote is based on a properly working and installed CAD, radio system(s), station radio(s) and does not include costs for repair or modifications of the CAD, radio system(s), or station radio(s).
3. Any equipment drawings included with this quote are for quoting purposes only and are not to be used as working drawings unless such drawings are labeled "Installation Drawings". See attached Limited Warranty.

Equipment Total	\$227,029.50
Install Supplies	\$11,500.00
Total Tax (6.000 %)	\$0.00
Shipping and Handling	\$12,500.00
Station Equipment Install	\$225,115.41
FiAP Install, Commissioning, and Testing	\$2,960.00
FiAP Training	\$1,480.00
One Year Toll Free Technical Support	\$28,588.74
Project Coordination	\$6,650.00
Permitting and Bonding	\$21,305.42
Special Engineering Services	\$2,500.00
Total Amount	\$539,629.07

Manufacturer's warranties apply on all parts. First-In warranty is provided by Westnet and consists of one-year parts and labor. Warranty does not apply to damage resulting from outside agencies or extraneous circumstances. Installation labor for any other items is ninety days. This quote is based on the reasonable assumption that the fire station is prepared to accept the above listed parts and that any existing equipment involved with the fire station alarm be in good working order or that it will be prior to commencement of the First-In installation. Westnet has made reasonable attempts to verify that conditions are satisfactory such that installation may occur. However, should an occurrence arise where further parts, labor and/or engineering are required, the customer may be billed at the Purchase Order rate. Any additional parts, labor and/or engineering exceeding \$250 will have prior approval, unless otherwise specified by the customer prior to commencement.

If payment is not received by 30 (thirty) days from the date of invoice, a late charge of 1.5% per month of the unpaid balance will be charged to that particular invoice.

EXHIBIT H - TECHNICAL DRAWINGS





15542 CHEMICAL LANE
HUNTERSBURG, MD 21041
TEL: (714) 949-3800 FAX: (714) 901-5610
www.FirstInAlerting.com

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WESTNET INC.
ALL RIGHTS RESERVED

REV	BY	DATE	REVISION
A	MAC	02/06/23	DIMENSION REVISIONS



ALERT
SYSTEM



SHEET NO.	SHEET CONTENTS
COVER	COVER SHEET
AS.01	ALERT SYSTEM DEVICE SCHEDULE
AS1.1	ALERTING SYSTEM DEVICE PLAN - 1ST FLOOR
AS1.2	ALERTING SYSTEM DEVICE PLAN - 2ND FLOOR
AS1.3	ALERTING SYSTEM DEVICE PLAN - 3RD FLOOR
AS1.1.1	KNIGHT LIGHTING CORRIDOR LAYOUT/ELEVATION
AS3.1	ALERTING SYSTEM CONDUIT LAYOUT - 1ST FLOOR
AS3.2	ALERTING SYSTEM CONDUIT LAYOUT - 2ND FLOOR
AS3.3	ALERTING SYSTEM CONDUIT LAYOUT - 3RD FLOOR
AS4.1	ALERT SYSTEM DEVICE DETAILS
AS4.2	ALERT SYSTEM DEVICE DETAILS
AS4.3	ALERT SYSTEM DEVICE DETAILS
AS4.4	ALERT SYSTEM DEVICE DETAILS
AS4.5	ALERT SYSTEM DEVICE DETAILS
AS4.6	ALERT SYSTEM DEVICE DETAILS

PROJECT NAME:
ARLINGTON FIRE STATION #8
ARLINGTON FIRE DEPARTMENT
4845 LEE HIGHWAY
ARLINGTON, VIRGINIA 22207

NOTE:
IF THIS SCALE IS NOT 1"=100'
THIS SHEET IS NOT TO SCALE.

JOB NUMBER: XXX

DATE: 04/06/2021

DRAWN BY: SYB

SCALE: N.T.S.

TITLE: COVER

SHEET
COVER

SYMBOL	MODEL NAME	MODEL NUMBER	DETAIL SHEET NUMBER	MOUNTING	CONDUIT - PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR	ADDITIONAL NOTES / COMMENTS
<div>MCU</div>	MASTER CONTROL UNIT	FIN-ETH	AS4.1 AS4.2	LOCATE WITHIN 6'-0" OF RADIO UNIT, IN CLOSET, CABINET, DISPATCH CENTER, OR I.T. EQUIPMENT RACK	1 1/2" C. STUBBED INTO ACCESSIBLE CEILING SPACE. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	IF MOUNTED IN MCU CABINET, A 4-11/16" JUNCTION BOX MOUNTED AT +6'-0" TO CENTER WILL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. IF MCU IS MOUNTED IN I.T. RACK, NO WALL ROUGH IS REQUIRED. COORDINATE FINAL LOCATION WITH WESTNET.
<div>CR</div>	CONTROL REMOTE	SCR26-24VC5 (SMART STATION)	AS4.1 AS4.2	LOCATED NEAR MCU AND / OR ABOVE CEILING IF CONTROLLING EQUIPMENT	3/4" C. STUBBED INTO ACCESSIBLE CEILING SPACE (IF APPLICABLE). RE: ADDITIONAL NOTES/COMMENTS FOR INSTRUCTION. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	CONTROL REMOTE HAS DRY CONTACTS, RATED AT 24 VOLTS - IF USED FOR EQUIPMENT CONTROL. MECHANICALLY HELD CONTACTOR(S) - (24V COIL) - WILL BE NEEDED FOR CONTROLLED DEVICE(S). ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL NECESSARY POWER FOR CONTROLLED DEVICES. COORDINATE WITH DESIGNATED TRADE/SUPPLIER FOR FINAL LOCATION.
<div>TIM</div>	TELEPHONE INTERFACE MODULE	SPMTI	AS4.1 AS4.2	LOCATED WITHIN 6'-0" OF MCU	3/4" CONDUIT SLEEVE TO TELEPHONE OR COMM. ROOM	PAGING UNIT REQUIRES ANALOG DRY CONTACTS FROM TELEPHONE SYSTEM, OR A DEDICATED ANALOG PAGING PORT PROVIDED BY CUSTOMER. COORDINATE WITH OTHER TRADES/WESTNET.
<div>RIU</div>	RADIO ISOLATION UNIT	FINISO1P (SINGLE CHANNEL) FINISO4P (FOUR CHANNEL)	AS4.1 AS4.2	LOCATE WITHIN 6'-0" OF RADIO UNIT, IN CLOSET, CABINET, DISPATCH CENTER, OR I.T. EQUIPMENT RACK	NOT APPLICABLE	REQUIRES #6 THHN GREEN STRANDED TO 5 OHM EARTH GROUND 8 FOOT MAXIMUM LENGTH.
<div>PM UPS</div>	POWER MODULE AND UPS	SPC100028V	AS4.2 (POWER MODULE) AS4.2 (UPS)	RACK MOUNT OR SURFACE WALL MOUNT.	1" C. STUBBED INTO ACCESSIBLE CEILING SPACE. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	UNIT REQUIRES 120V RECEPTACLE @ 7'-0" TO CENTER AND DEEP 4 SQUARE, SINGLE GANG BOX MOUNTED AT +6'-6" TO CENTER FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.. MINIMUM WORKING CLEARANCE SPACE REQUIRED FOR EQUIPMENT MOUNTING IS 3'-0" SQUARE.
<div>SC</div>	SATELLIGHT CONTROLLER	SSATKIT-A (ACOUSTIC CEILING) SSATKIT-H (HARD CEILING) SSATKIT-90 (0-90 DEGREES)	AS4.2	CEILING MOUNT OR WALL MOUNTED - VERIFY WITH DRAWINGS	3/4" C. - ONLY REQUIRED IN SHEETROCK CEILINGS AND/OR EXPOSED AREAS. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	ELECTRICAL CONTRACTOR TO INSTALL HOFFMAN BOX - PART #43050, CAT #A-SE10X8X4 - APPLIES TO SHEETROCK CEILINGS AND/OR EXPOSED AREAS. BOX MUST BE RECESSED 1/4" IN SHEET ROCK. IF MOUNTED ON WALL OR IN EXPOSED AREAS, MOUNT AT A MAXIMUM HEIGHT OF 15'-0". COORDINATE FINAL LOCATION WITH TRADES / WESTNET. - HOFFMAN BOX FURNISHED BY WESTNET DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACK BOX
<div>S</div>	SATELLIGHT SPEAKER	SSATKIT-A (ACOUSTIC CEILING) SSATKIT-H (HARD CEILING) SSATKIT-90 (0-90 DEGREES)	AS4.2	CEILING MOUNT OR WALL MOUNTED - VERIFY WITH DRAWINGS	3/4" C. - ONLY REQUIRED IN SHEETROCK CEILINGS AND/OR EXPOSED AREAS. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	ELECTRICAL CONTRACTOR TO INSTALL HOFFMAN BOX - PART #43050, CAT #A-SE10X8X4 - APPLIES TO SHEETROCK CEILINGS AND/OR EXPOSED AREAS. BOX MUST BE RECESSED 1/4" IN SHEET ROCK. IF MOUNTED ON WALL OR IN EXPOSED AREAS, MOUNT AT A MAXIMUM HEIGHT OF 15'-0". COORDINATE FINAL LOCATION WITH TRADES / WESTNET. - HOFFMAN BOX FURNISHED BY WESTNET DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACK BOX
<div>FSSL</div>	ALERTING SYSTEM STROBE	SSATKIT-A (ACOUSTIC CEILING) SSATKIT-H (HARD CEILING) SSATKIT-90 (0-90 DEGREES)	AS4.3 AS4.6	CEILING MOUNT OR WALL MOUNTED - VERIFY WITH DRAWINGS	3/4" C. - ONLY REQUIRED IN SHEETROCK CEILINGS AND/OR EXPOSED AREAS. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	ELECTRICAL CONTRACTOR TO INSTALL STROBE BACK BOX - PART #4097- APPLIES TO SHEETROCK CEILINGS. BOX MUST BE RECESSED ¾" IN SHEET ROCK. IF MOUNTED ON WALL OR IN EXPOSED AREAS, MOUNT AT 72"A.F.F. VERTICALLY OFF THE BOTTOM OF THE BOX. COORDINATE FINAL LOCATION WITH TRADES/WESTNET. STROBE BACK BOX FURNISHED BY WESTNET. DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACK BOX.
<div>DR</div>	DORM REMOTE	SDRM38V-FM	AS4.3	FLUSH WALL MOUNTED	3/4" C. STUBBED INTO ACCESSIBLE CEILING. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	ELECTRICAL CONTRACTOR TO INSTALL HOFFMAN BOX - PART #43050, CAT #A-SE10X8X4 - MOUNTED AT +48" TO TOP OF BOX. MUST BE MOUNTED 2'-0" FROM HEAD OF BED. IF LOCATED BY DOOR JAMBS AND/OR SWITCHES, MUST HAVE 18" OF CLEARANCE FOR EQUIPMENT HOUSING. BOX MUST BE RECESSED ¾" FROM SHEETROCK SURFACE - HOFFMAN BOX FURNISHED BY WESTNET. BOX TO BE MOUNTED WITH THE 10" OPENING HORIZONTAL, NOT VERTICAL.
<div>DL</div>	DORM LIGHT	SDRM38V-FM (REMOTE/LIGHT KIT)	AS4.3	CEILING MOUNTED	3/4" C. TO DORM REMOTE - ONLY REQUIRED IN SHEETROCK CEILINGS. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	IF MOUNTED IN SHEETROCK CEILING - A CUSTOM BUILT BACK BOX WILL BE FURNISHED BY WESTNET. DORM LIGHT IS TO BE MOUNTED AT FOOT OF BED, TOWARDS CENTER OF THE ROOM. COORDINATE FINAL LOCATION WITH TRADES / WESTNET. DEVICES MOUNTED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACK BOX
<div>HPS HPA AMP</div>	HIGH-POWER PAGING AMPLIFIER AND SPEAKER	SPHA150	AS4.4	CEILING MOUNT OR WALL MOUNTED - VERIFY WITH DRAWINGS.	3/4" C. IN EXPOSED AREAS. RE: ADDITONAL NOTES/COMMENTS FOR INSTRUCTION. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	IF MOUNTED ON EXTERIOR WALL, ELECTRICAL CONTRACTOR TO FURNISH A SINGLE GANG WEATHERPROOF BOX MOUNTED AT 10'-0" AFF MINIMUM. FURNISH A 3/4" C. SLEEVE TO A 4 SQUARE SINGLE GANG RING BOX MOUNTED ON INSIDE AT ACCESSIBLE HEIGHT. IF MOUNTED IN EXPOSED AREAS, FURNISH A 4 SQUARE BOX MOUNTED AT 10'-0" AFF MINIMUM - 12'-0" MAXIMUM HPA DEVICES MUST BE FREE FROM OBSTRUCTION - STRUT RACK MAY BE REQUIRED - COORDINATE FINAL LOCATION WITH TRADES / WESTNET.
<div>OSC OS</div>	OUTSIDE SATELLIGHT OUTSIDE SPEAKER	SSAT35C-OS	AS4.4	CONTROL MOUNTED ABOVE ACCESSIBLE CEILING - SPEAKER MOUNTED ON EXTERIOR WALL	3/4" C. RE: ADDITONAL NOTES/COMMENTS FOR INSTRUCTION. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A STANDARD SINGLE GANG WEATHERPROOF BOX FOR OUTSIDE SPEAKER MOUNTED AT A MINIMUM OF 10'-0" AFF. FURNISH A 3/4"C. TO A 4 SQUARE BOX MOUNTED IN ACCESSIBLE CEILING SPACE. COORDINATE FINAL LOCATION WITH TRADES / WESTNET.
<div>DB</div>	DOORBELL	SDBS	AS4.5	WALL MOUNTED	3/4" C. STUBBED INTO ACCESSIBLE CEILING. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A 4 SQUARE DEEP BOX, WITH SINGLE GANG PLATE MOUNTED AT +48" TO TOP OF BOX. COORDINATE FINAL LOCATION WITH TRADES / WESTNET. ADJUST HEIGHT PER ADA REGULATIONS.
<div>ES</div>	EMERGENCY SWITCH	SSETS	AS4.5	WALL MOUNTED	3/4" C. STUBBED INTO ACCESSIBLE CEILING. REFER TO CONDUIT LAYOUT FOR SPECIFIC SYSTEM REQUIREMENTS.	ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A 4 SQUARE DEEP BOX, WITH SINGLE GANG PLATE MOUNTED AT +48" TO TOP OF BOX. COORDINATE FINAL LOCATION WITH TRADES / WESTNET. ADJUST HEIGHT PER ADA REGULATIONS.



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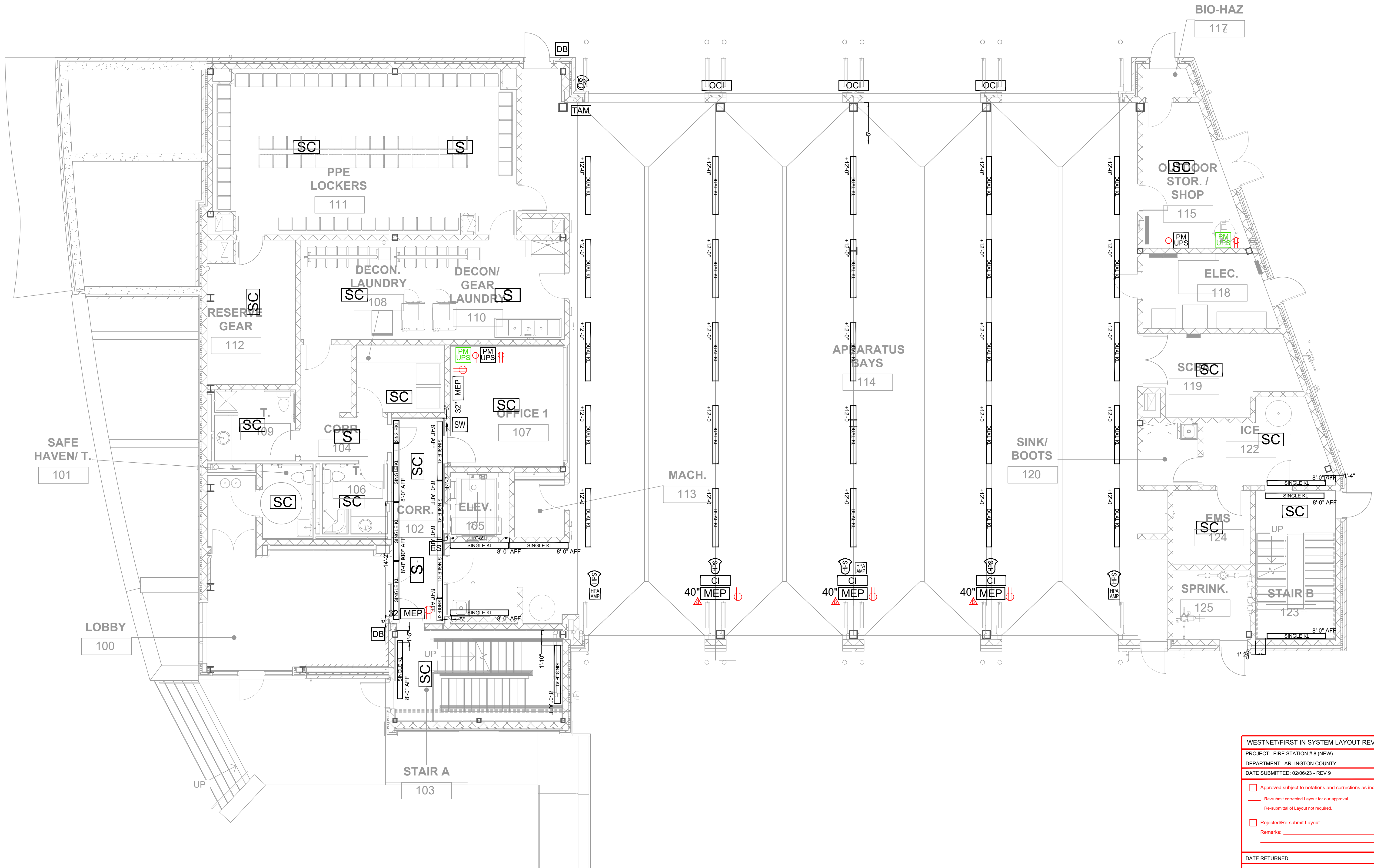
ALERT
SYSTEM

PROJECT NAME:
ARLINGTON FIRE STATION #8
ARLINGTON FIRE DEPARTMENT
4845 LEE HIGHWAY
ARLINGTON, VIRGINIA 22207

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DATE: 11/05/2018
DRAWN BY: SYB
SCALE: N.T.S.
TITLE: DEVICE PLAN

AS.01



ALERT SYSTEM - 1ST FLOOR DEVICE LAYOUT

SCALE: N.T.S.

WESTNET/FIRST IN SYSTEM LAYOUT REVIEW	
PROJECT: FIRE STATION # 8 (NEW)	
DEPARTMENT: ARLINGTON COUNTY	
DATE SUBMITTED: 02/06/23 - REV 9	
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<input type="checkbox"/> Re-submit corrected Layout for our approval.	
<input type="checkbox"/> Re-submittal of Layout not required.	
<input type="checkbox"/> Rejected/Re-submit Layout	
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ALERT
SYSTEM

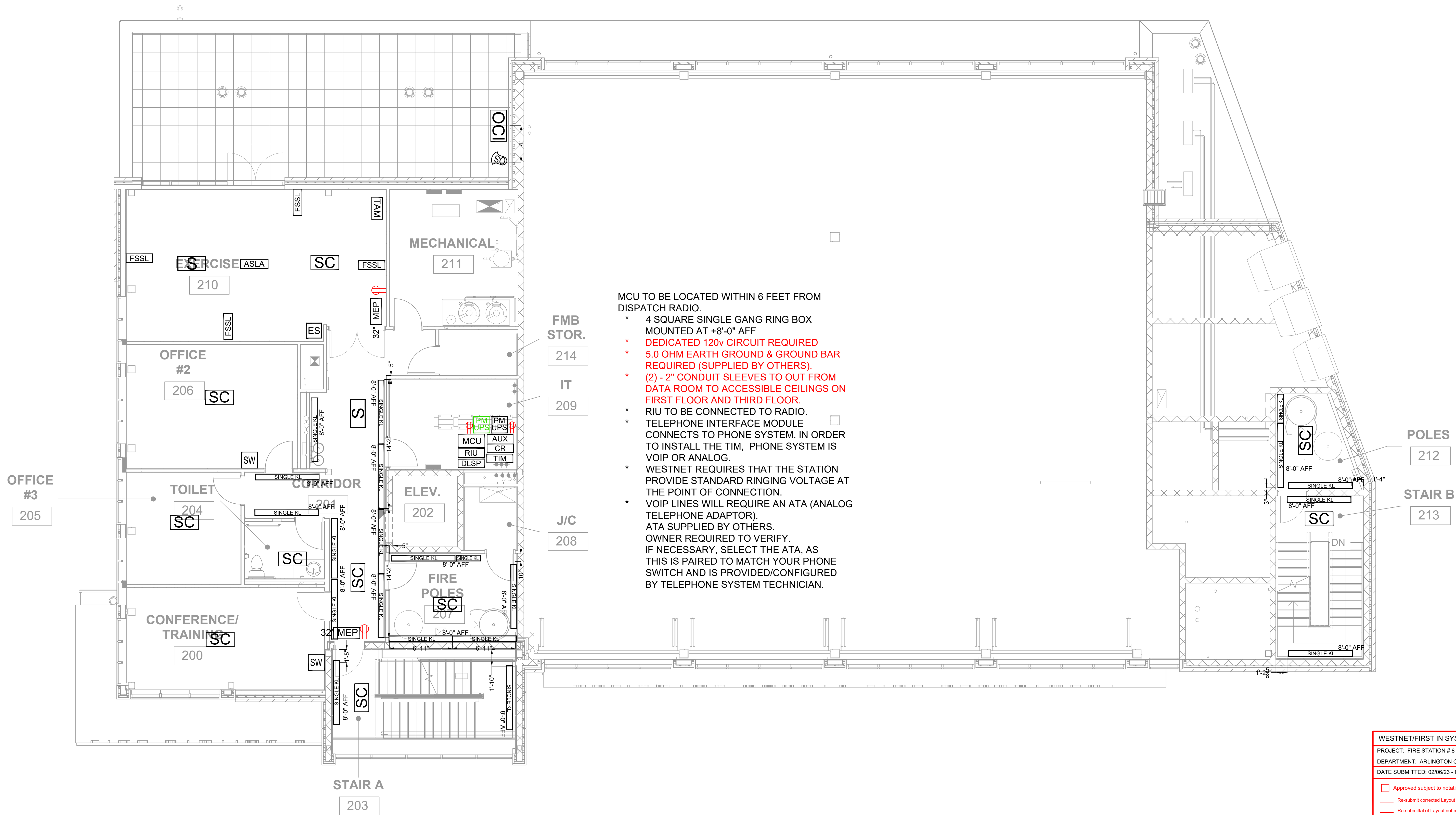
PROJECT NAME:
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ARLINGTON FIRE DEPARTMENT
4845 LEE HIGHWAY
ARLINGTON, VIRGINIA 22207

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AS1.1

REV	REVISION	DATE	BY
1	DEVICE LAYOUT REVISIONS	08/10/21	MAC
2	DEVICE LAYOUT REVISIONS	09/02/21	MAC
3	DIMENSION REVISIONS	12/06/23	MAC



- MCU TO BE LOCATED WITHIN 6 FEET FROM DISPATCH RADIO.
- * 4 SQUARE SINGLE GANG RING BOX MOUNTED AT +8'-0" AFF
 - * DEDICATED 120v CIRCUIT REQUIRED
 - * 5.0 OHM EARTH GROUND & GROUND BAR REQUIRED (SUPPLIED BY OTHERS).
 - * (2) - 2" CONDUIT SLEEVES TO OUT FROM DATA ROOM TO ACCESSIBLE CEILINGS ON FIRST FLOOR AND THIRD FLOOR.
 - * RIU TO BE CONNECTED TO RADIO.
 - * TELEPHONE INTERFACE MODULE CONNECTS TO PHONE SYSTEM. IN ORDER TO INSTALL THE TIM, PHONE SYSTEM IS VOIP OR ANALOG.
 - * WESTNET REQUIRES THAT THE STATION PROVIDE STANDARD RINGING VOLTAGE AT THE POINT OF CONNECTION.
 - * VOIP LINES WILL REQUIRE AN ATA (ANALOG TELEPHONE ADAPTOR). ATA SUPPLIED BY OTHERS. OWNER REQUIRED TO VERIFY. IF NECESSARY, SELECT THE ATA, AS THIS IS PAIRED TO MATCH YOUR PHONE SWITCH AND IS PROVIDED/CONFIGURED BY TELEPHONE SYSTEM TECHNICIAN.

WESTNET/FIRST IN SYSTEM LAYOUT REVIEW	
PROJECT: FIRE STATION # 8 (NEW)	
DEPARTMENT: ARLINGTON COUNTY	
DATE SUBMITTED: 02/06/23 - REV 9	
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<input type="checkbox"/>	Re-submit corrected Layout for our approval.
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<input type="checkbox"/>	Rejected/Re-submit Layout
Remarks: _____	

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ALERT SYSTEM - 2ND FLOOR DEVICE LAYOUT
SCALE: N.T.S.



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REV	BY	DATE	REVISION	REVISION	REVISION
1	MAC	08/02/21	DEVICE LAYOUT REVISIONS	MAC	
2	MAC	02/06/23	DIMENSION REVISIONS	MAC	

**ALERT
SYSTEM**

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ARLINGTON FIRE DEPARTMENT
4845 LEE HIGHWAY
ARLINGTON, VIRGINIA 22207

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DATE: 04/06/2021
DRAWN BY: SYB
SCALE: N.T.S.
TITLE: DEVICE PLAN

SHEET
AS1.2

REV	REVISION	DATE	BY
Δ	DEVICE LAYOUT REVISIONS	08/10/21	MAC
Δ	DEVICE LAYOUT REVISIONS	09/13/21	MAC
Δ	DEVICE LAYOUT REVISIONS	09/20/21	MAC
Δ	DIMENSION REVISIONS	02/08/23	MAC



PROJECT NAME:
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ARLINGTON FIRE DEPARTMENT
4845 LEE HIGHWAY
ARLINGTON, VIRGINIA 22207

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SCALE: N.T.S.
TITLE: DEVICE PLAN
SHEET

WESTNET/FIRST IN SYSTEM LAYOUT REVIEW

PROJECT: FIRE STATION # 8 (NEW)

DEPARTMENT: ARLINGTON COUNTY

DATE SUBMITTED: 02/06/23 - REV 9

☐ Approved subject to notations and corrections as indicated.

☐ Re-submit corrected Layout for our approval.

☐ Re-submittal of Layout not required.

☐ Rejected/Re-submit Layout

Remarks: _____

DATE RETURNED: _____

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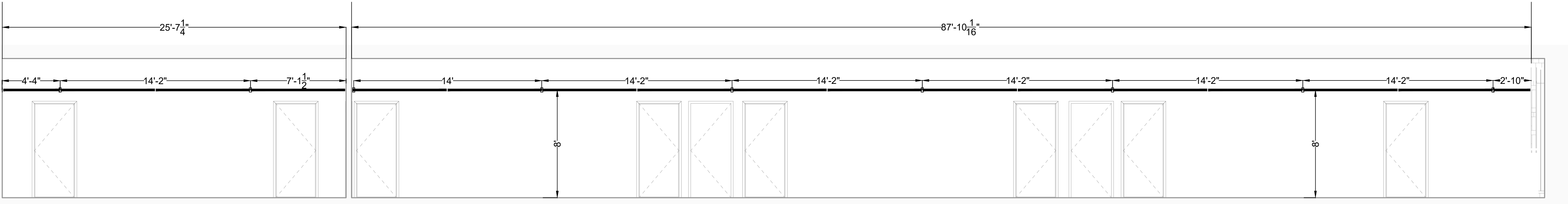
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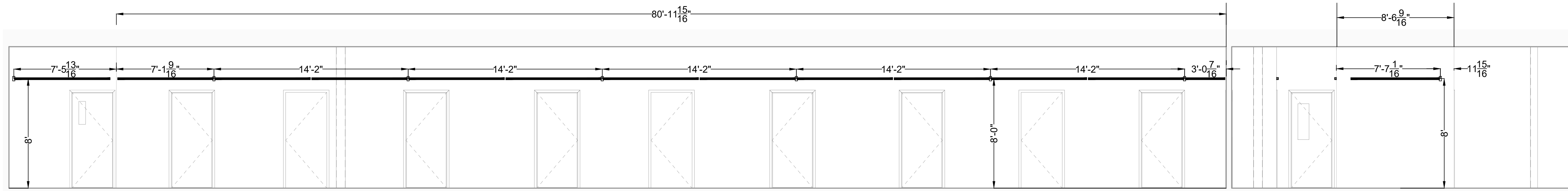


ALERT SYSTEM - 3RD FLOOR DEVICE LAYOUT
SCALE: N.T.S.



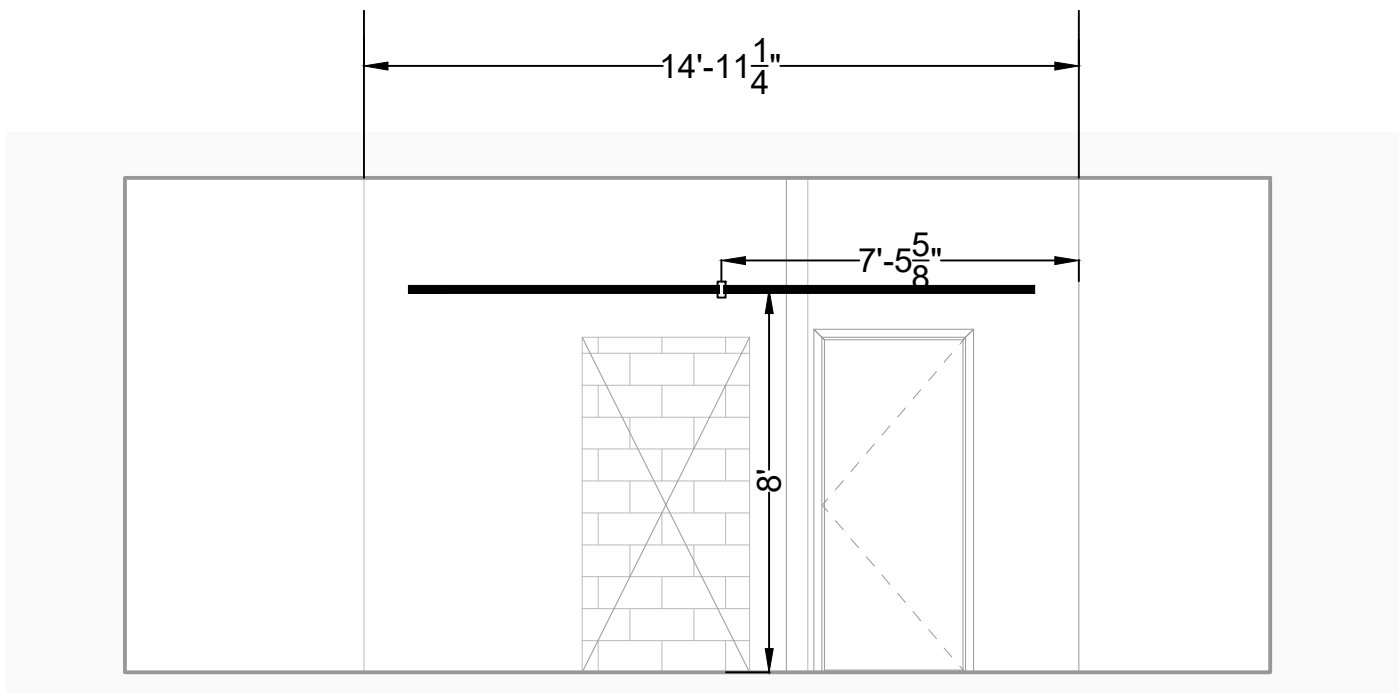
KNIGHT LIGHT DEVICE LAYOUT - PLAN NORTH - 3RD FLOOR

SCALE: 1/4"=1'-0"



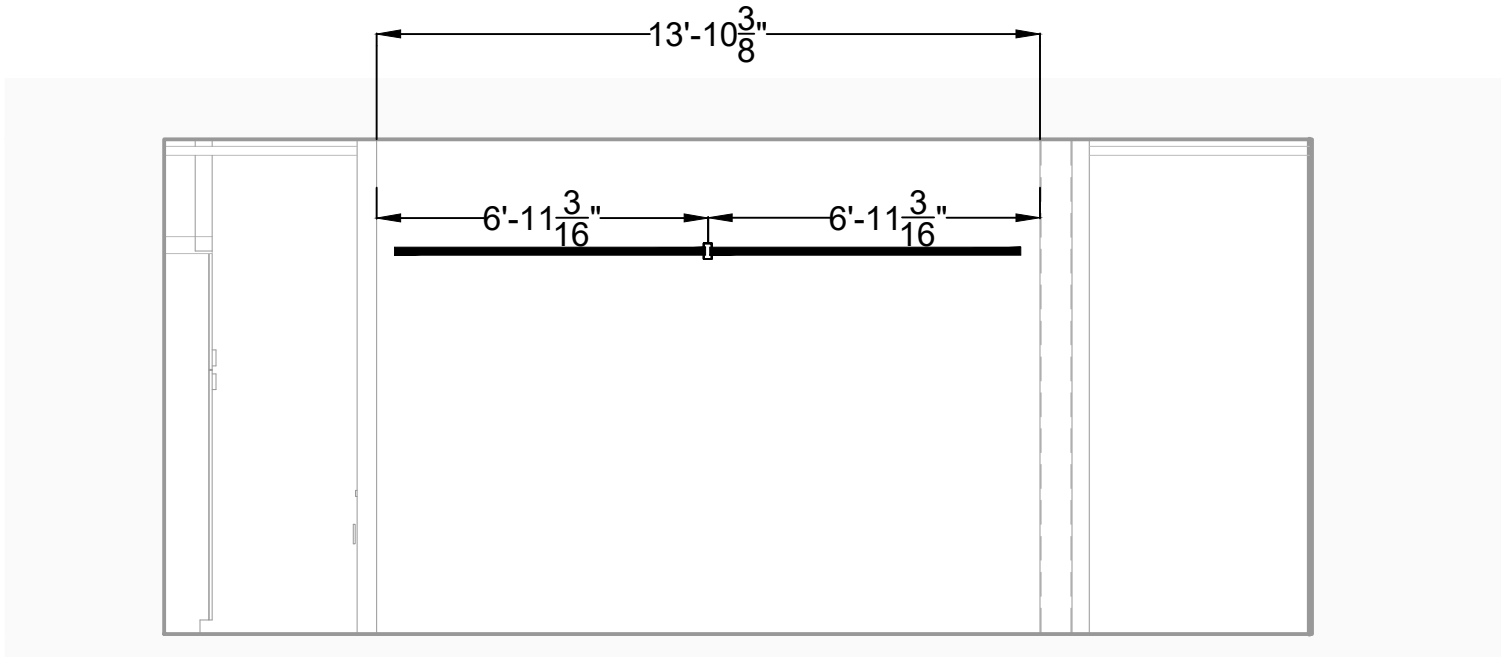
KNIGHT LIGHT DEVICE LAYOUT - PLAN SOUTH - 3RD FLOOR

SCALE: 1/4"=1'-0"



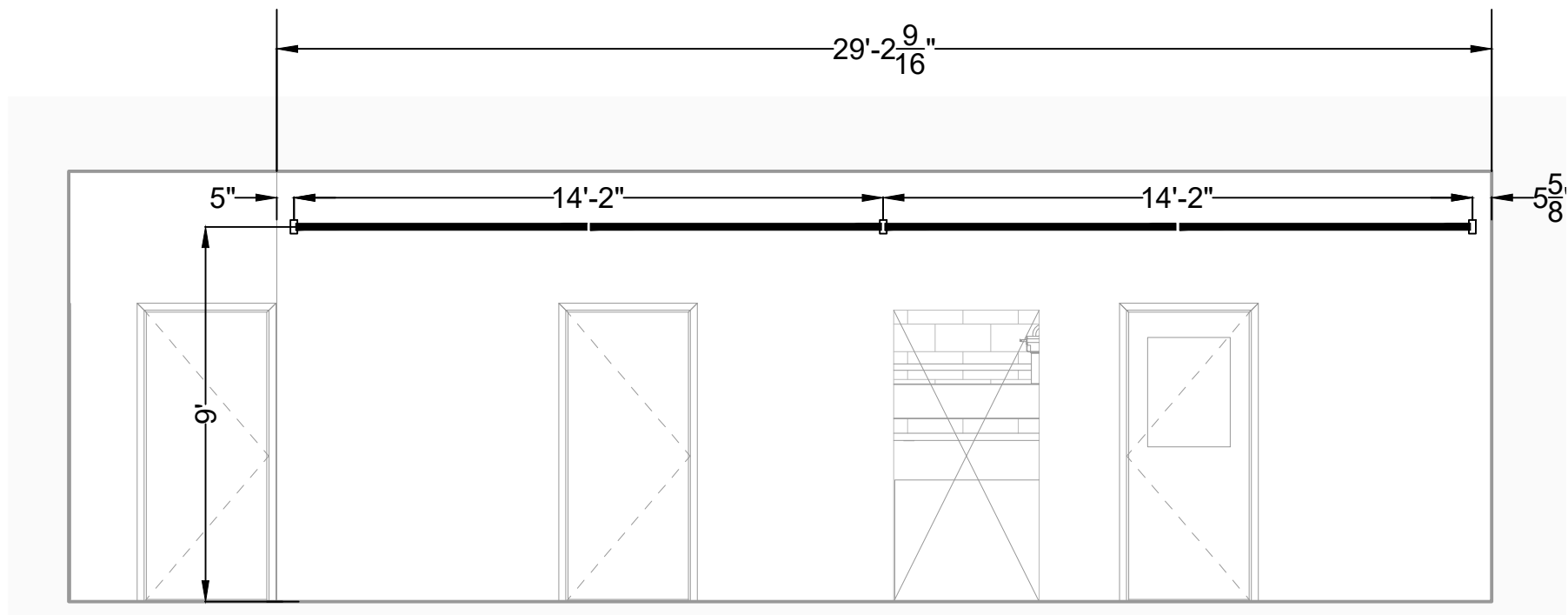
**KNIGHT LIGHT DEVICE LAYOUT - PLAN EAST
ELEVATOR CORRIDOR - 3RD FLOOR**

SCALE: 1/4"=1'-0"



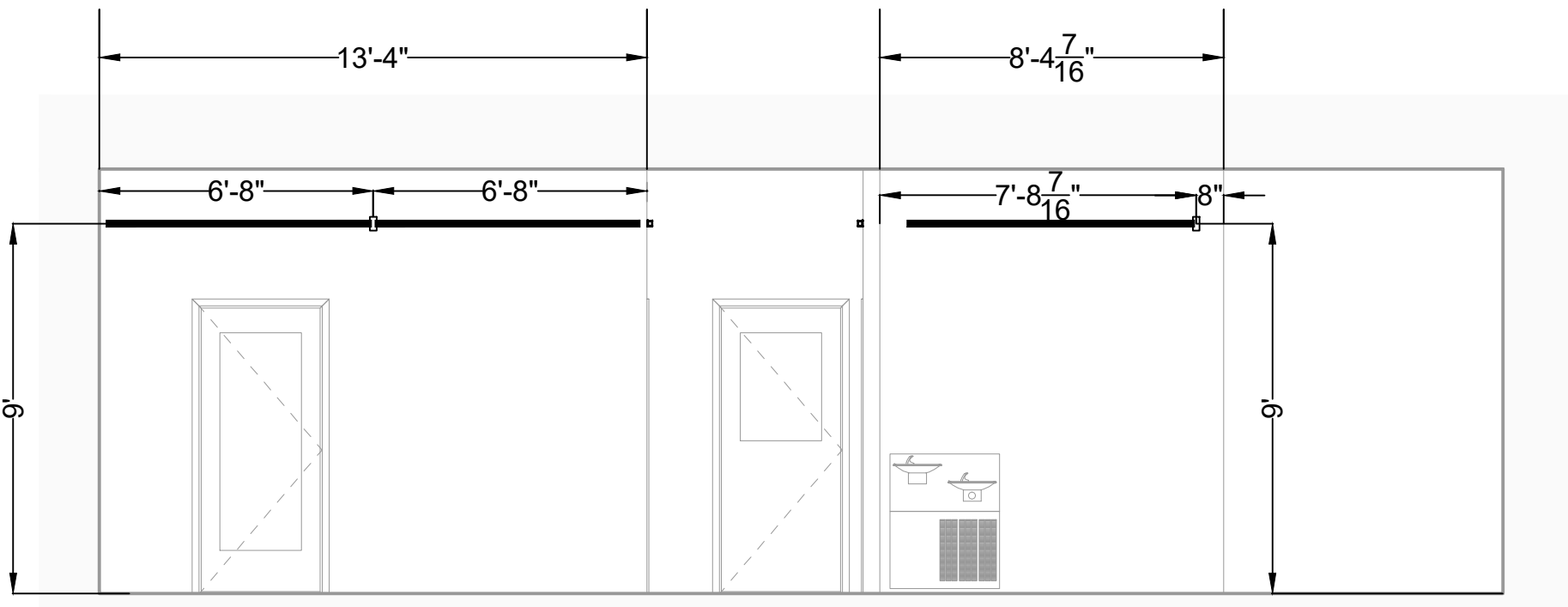
**KNIGHT LIGHT DEVICE LAYOUT - PLAN WEST
ELEVATOR CORRIDOR - 3RD FLOOR**

SCALE: 1/4"=1'-0"



**KNIGHT LIGHT DEVICE LAYOUT - PLAN EAST
ELEVATOR CORRIDOR - 2ND FLOOR**

SCALE: 1/4"=1'-0"



**KNIGHT LIGHT DEVICE LAYOUT - PLAN WEST
ELEVATOR CORRIDOR - 2ND FLOOR**

SCALE: 1/4"=1'-0"



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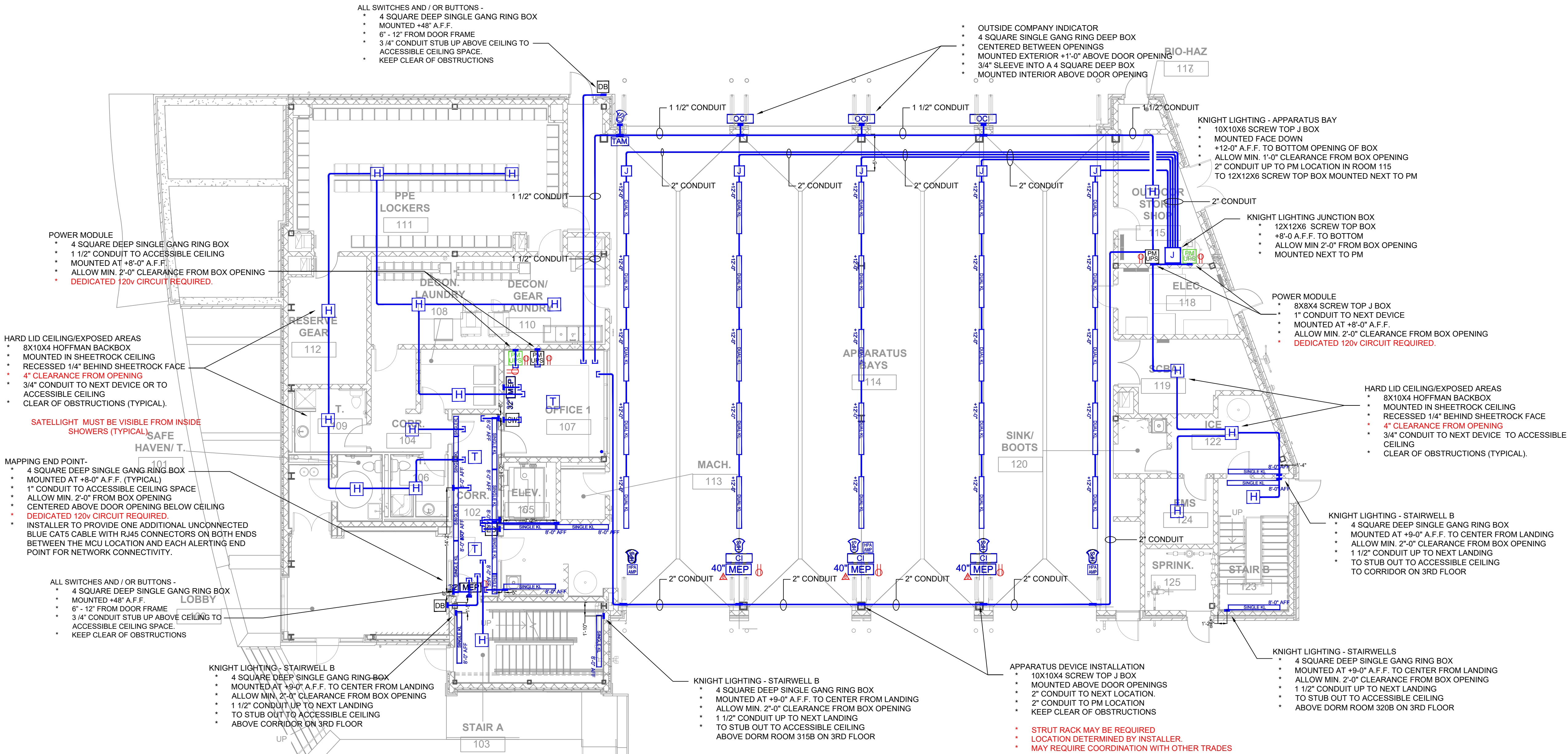
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SCALE: N.T.S.

TITLE: DEVICE PLAN

SHEET

AS1.1.1



GENERAL NOTES

- 1 DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
- 2 ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
- 3 DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES
- 4 DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSATKIT-A)
- 5 DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX
- 6 DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
- 7 LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
- 8 SEE ARCHITECTURAL SPECIFICATION FOR ALL ROUGH-IN AND INSTALLATION DETAILS FOR NEW CONSTRUCTION.
- 9 INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
- 10 ALL WIRING AND DEVICES TO BE INSTALLED BY WESTNET.
- 11 ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
- 12 DEVICES LOCATED IN BATHROOM/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION (TYPICAL).
- 13 ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
- 14 IN ACOUSTICAL CEILING (T-BAR), WIRE CABLEING IS FREE WIRE (NOT IN CONDUIT).
- 15 IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLEING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
- 16 IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. KEEP CLEAR OF OBSTRUCTIONS.
- 17 AN INDIVIDUAL GAS CONTROL VALVE IS REQUIRED FOR EACH COOKING APPLIANCE WITH A RESET SWITCH WITHIN 6'-0" FT. OF EACH COOKING APPLIANCE.
- 18 A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
- 19 THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
- 20 INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU LOCATION AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.

FIRST-IN FIRE STATION ALERTING SYMBOL LEGEND

MCU	MASTER CONTROL UNIT
DLSP	DATA LINE SURGE PROTECTOR
TIM	TELEPHONE INTERFACE MODULE
CR	CONTROL REMOTE
RIU	RADIO ISOLATION UNIT
AUX	AUXILIARY MODULE
PM UPS	POWER MODULE WITH UPS - BLACK (DEDICATED 120V CIRCUIT REQUIRED)
PM UPS	POWER MODULE DUAL WITH UPS - GREEN (DEDICATED 120V CIRCUIT REQUIRED)
SC	SATELLITE LIGHT CONTROLLER
S	SATELLITE LIGHT
FSSL	STROBE LIGHT - IN CONJUNCTION WITH ASLA
ASLA	ALERTING STROBE LIGHT ADAPTER
DR	DORM REMOTE
BL	DORM LIGHT
HPS	HIGH-POWERED AMPLIFIED SPEAKER
HPSA	HIGH-POWERED AMPLIFIER MODULE
OSA	OUTSIDE SPEAKER AUDIO MODULE
CSA	OUTSIDE SPEAKER - IN CONJUNCTION WITH OSA
DB	DOORBELL BUTTON
ES	EMERGENCY SWITCH
SW	SPEAKER SWITCH
CI	COMPANY INDICATOR
OOC	OUTSIDE COMPANY INDICATOR
TT	TURNOUT TIMER - MEDIUM
MEP	MAPPING END POINT (DEDICATED 120V CIRCUIT REQUIRED)



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3	MAC	02/06/23	DIMENSION REVISIONS



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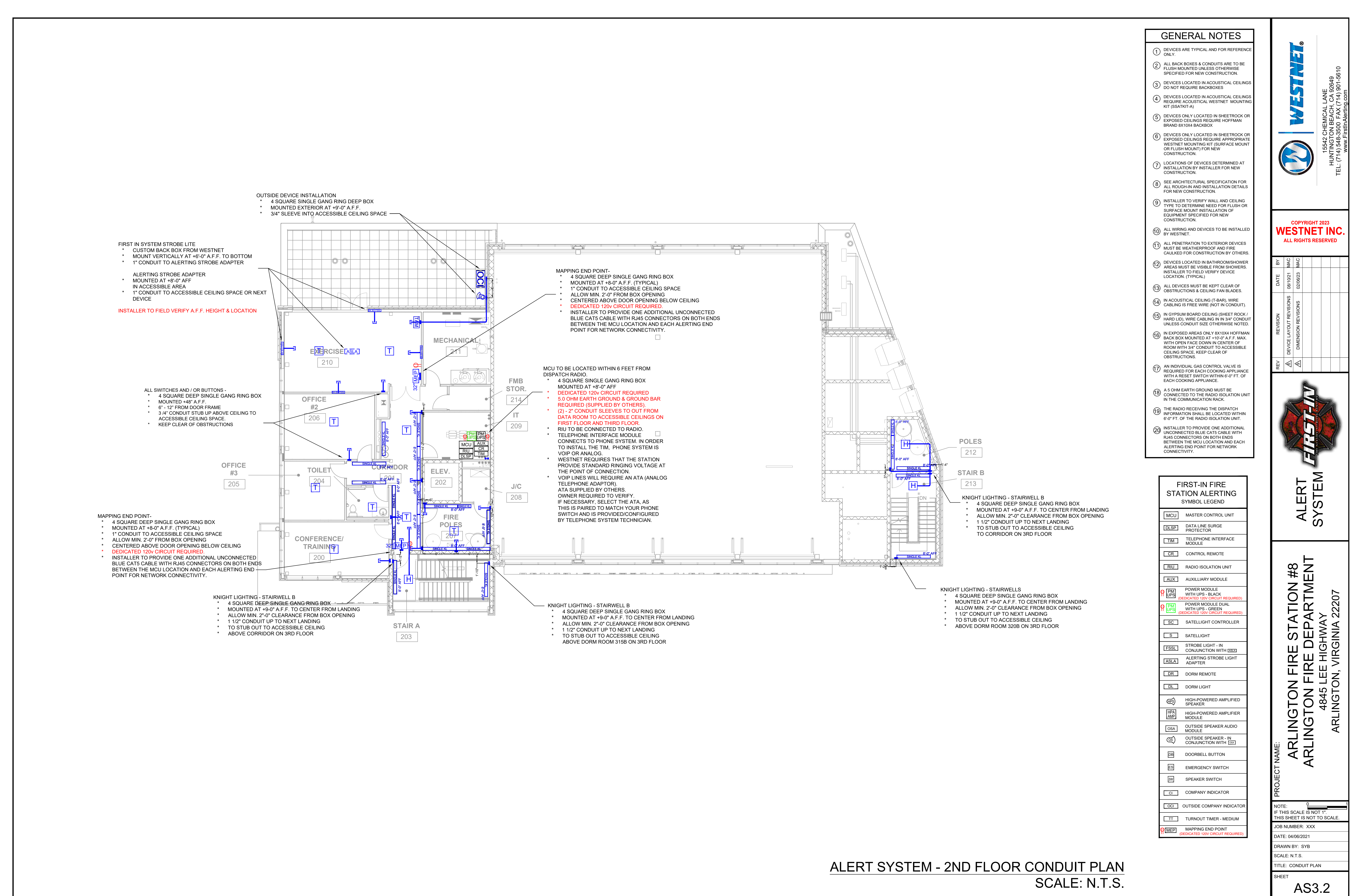
SCALE: N.T.S.

TITLE: CONDUIT PLAN

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AS3.1

ALERT SYSTEM - 1ST FLOOR CONDUIT PLAN
SCALE: N.T.S.





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TITLE: CONDUIT PLAN

SHEET

AS3.2

ALERT SYSTEM - 2ND FLOOR CONDUIT PLAN
SCALE: N.T.S.

GENERAL NOTES

- 1 DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
- 2 ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
- 3 DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES
- 4 DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSAKT1-A)
- 5 DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX
- 6 DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
- 7 LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
- 8 SEE ARCHITECTURAL SPECIFICATION FOR ALL ROUGH-IN AND INSTALLATION DETAILS FOR NEW CONSTRUCTION.
- 9 INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
- 10 ALL WIRING AND DEVICES TO BE INSTALLED BY WESTNET.
- 11 ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
- 12 DEVICES LOCATED IN BATHROOM/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
- 13 ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
- 14 IN ACOUSTICAL CEILING (T-BAR), WIRE CABLEING IS FREE WIRE (NOT IN CONDUIT).
- 15 IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLEING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
- 16 IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. KEEP CLEAR OF OBSTRUCTIONS.
- 17 AN INDIVIDUAL GAS CONTROL VALVE IS REQUIRED FOR EACH COOKING APPLIANCE WITH A RESET SWITCH WITHIN 6'-0" FT. OF EACH COOKING APPLIANCE.
- 18 A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
- 19 THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
- 20 INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU LOCATION AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.

FIRST-IN FIRE STATION ALERTING SYMBOL LEGEND

MCU	MASTER CONTROL UNIT
DLSP	DATA LINE SURGE PROTECTOR
TYM	TELEPHONE INTERFACE MODULE
CR	CONTROL REMOTE
RIU	RADIO ISOLATION UNIT
AUX	AUXILIARY MODULE
PM UPS	POWER MODULE WITH UPS - BLACK (DEDICATED 120v CIRCUIT REQUIRED)
PM LPS	POWER MODULE DUAL WITH UPS - GREEN (DEDICATED 120v CIRCUIT REQUIRED)
SC	SATELLIGHT CONTROLLER
S	SATELLIGHT
FSSL	STROBE LIGHT - IN CONJUNCTION WITH ASLA
ASLA	ALERTING STROBE LIGHT ADAPTER
DR	DORM REMOTE
DL	DORM LIGHT
CE	HIGH-POWERED AMPLIFIED SPEAKER
HPA AMP	HIGH-POWERED AMPLIFIER MODULE
OSA	OUTSIDE SPEAKER AUDIO MODULE
OS	OUTSIDE SPEAKER - IN CONJUNCTION WITH OSA
DB	DOORBELL BUTTON
ES	EMERGENCY SWITCH
SW	SPEAKER SWITCH
CI	COMPANY INDICATOR
OCI	OUTSIDE COMPANY INDICATOR
TT	TURNOUT TIMER - MEDIUM
MEP	MAPPING END POINT (DEDICATED 120v CIRCUIT REQUIRED)



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1	DEVE LAYOUT REVISIONS	08/10/21	MAC
2	DEVE LAYOUT REVISIONS	09/10/21	MAC
3	DEVE LAYOUT REVISIONS	09/20/21	MAC
4	DIMENSION REVISIONS	02/09/23	MAC



ALERT
SYSTEM

PROJECT NAME:
ARLINGTON FIRE STATION #8
ARLINGTON FIRE DEPARTMENT
4845 LEE HIGHWAY
ARLINGTON, VIRGINIA 22207

PROJECT NAME:

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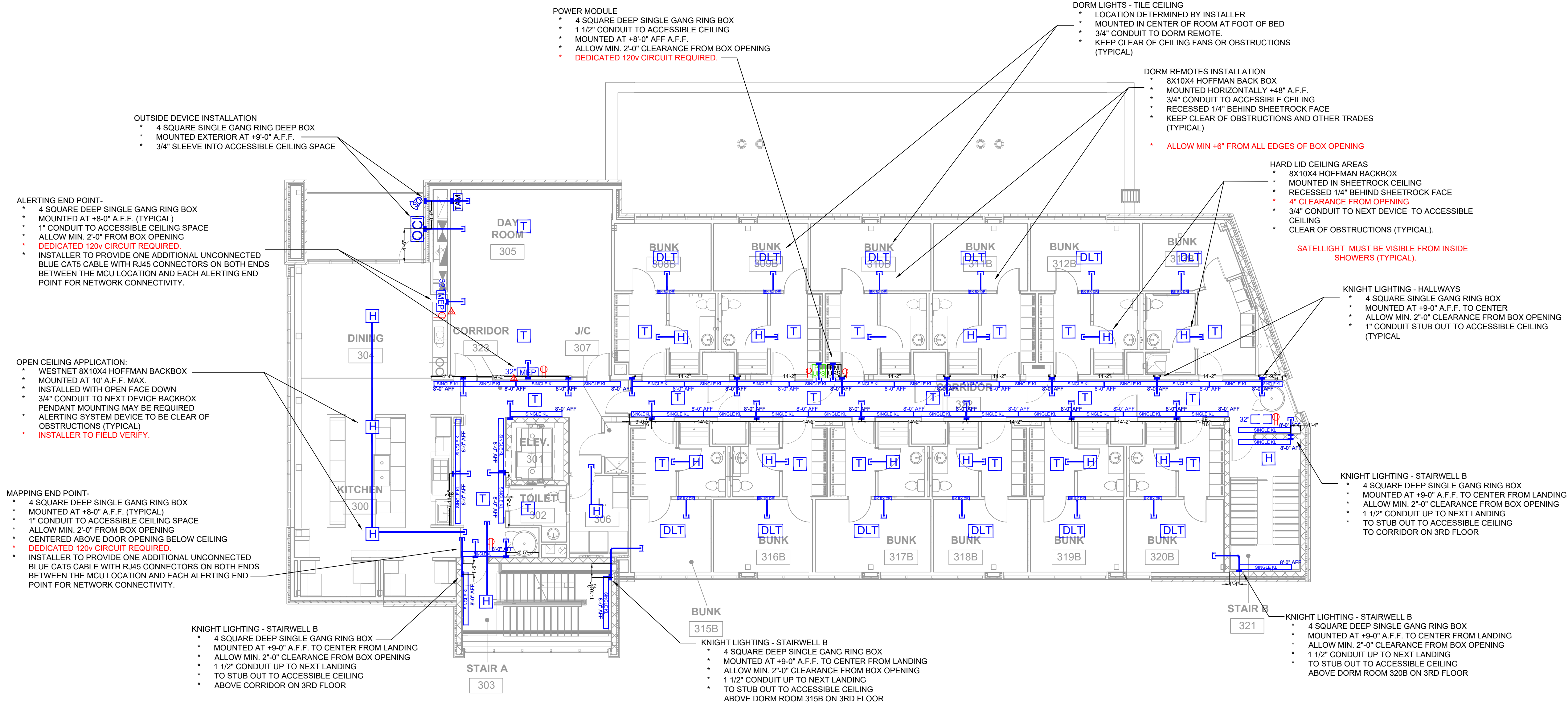
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TITLE: CONDUIT PLAN

SHEET

AS3.3

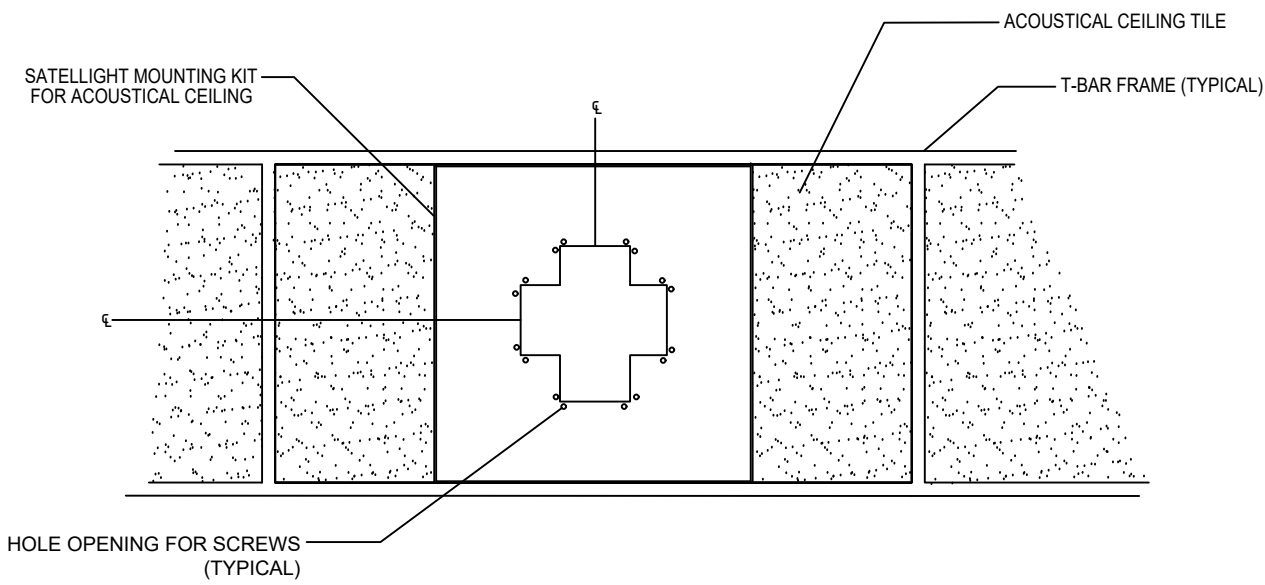
ALERT SYSTEM - 3RD FLOOR CONDUIT PLAN
SCALE: N.T.S.



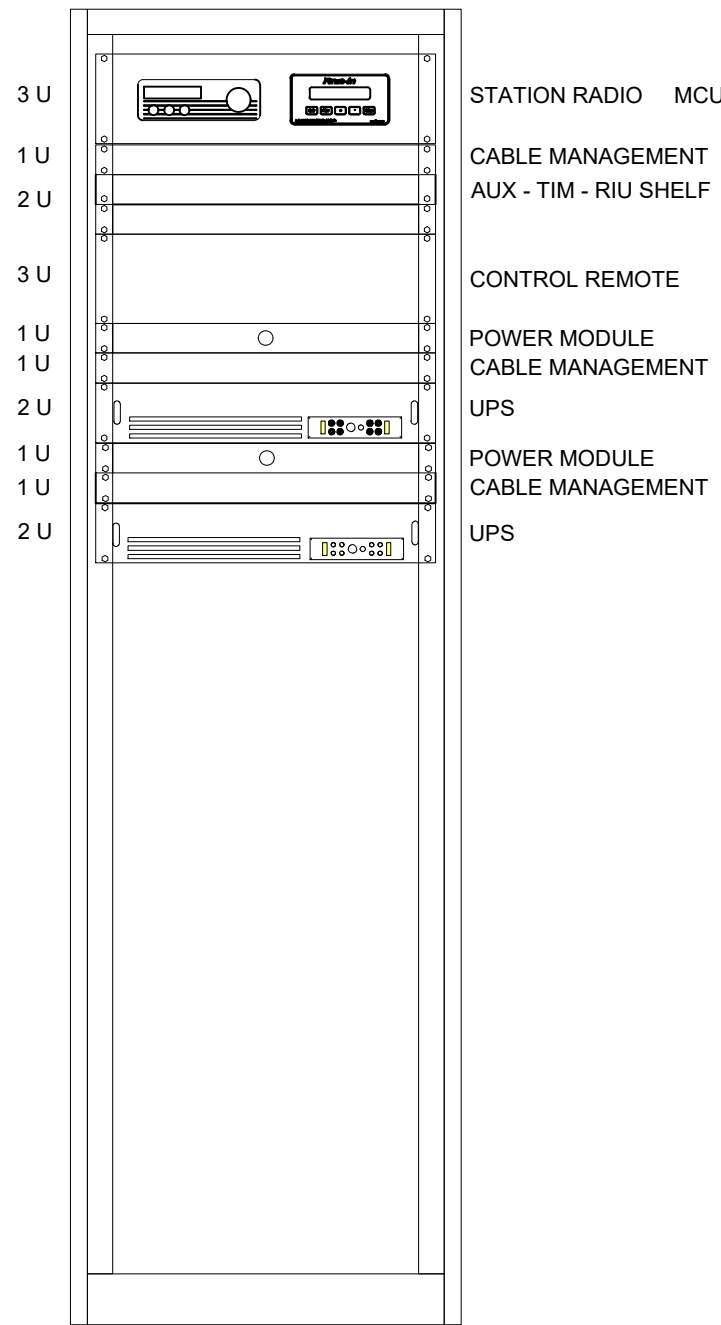


IF THERE ARE ANY QUESTIONS OR CONCERNS ABOUT THE ROUGH IN FOR INSTALLATION, PLEASE CALL WESTNET AT 1-800-807-1700.

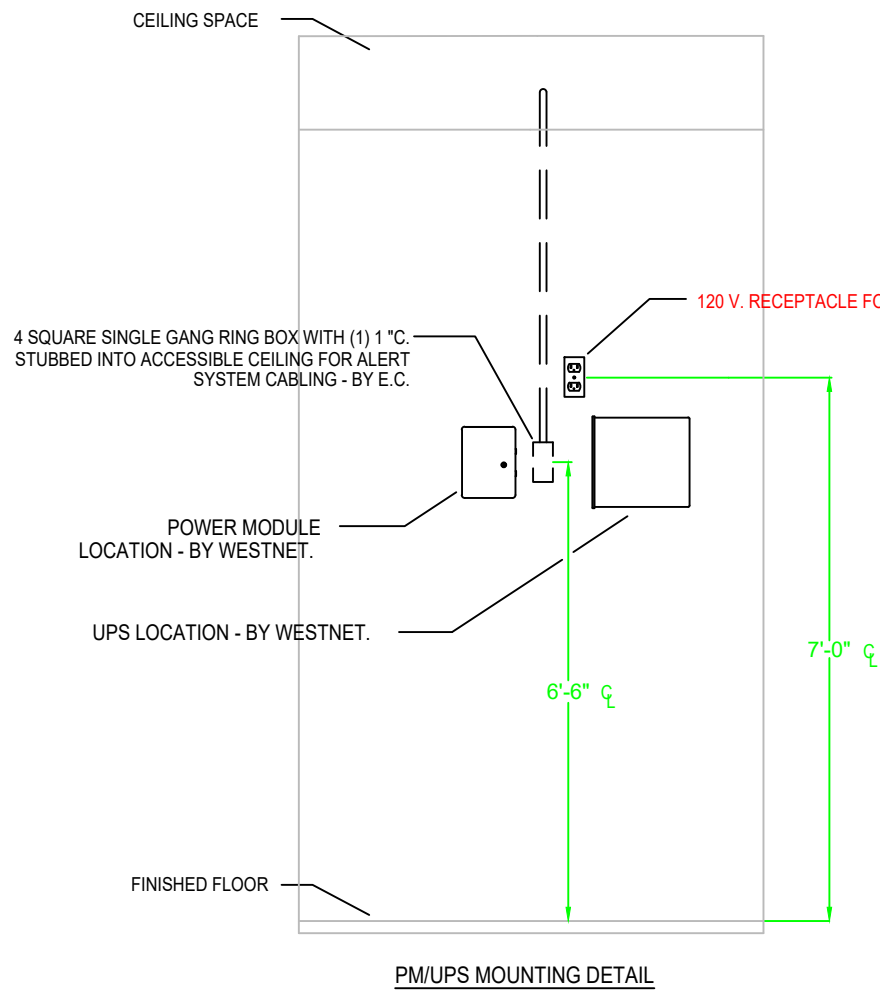




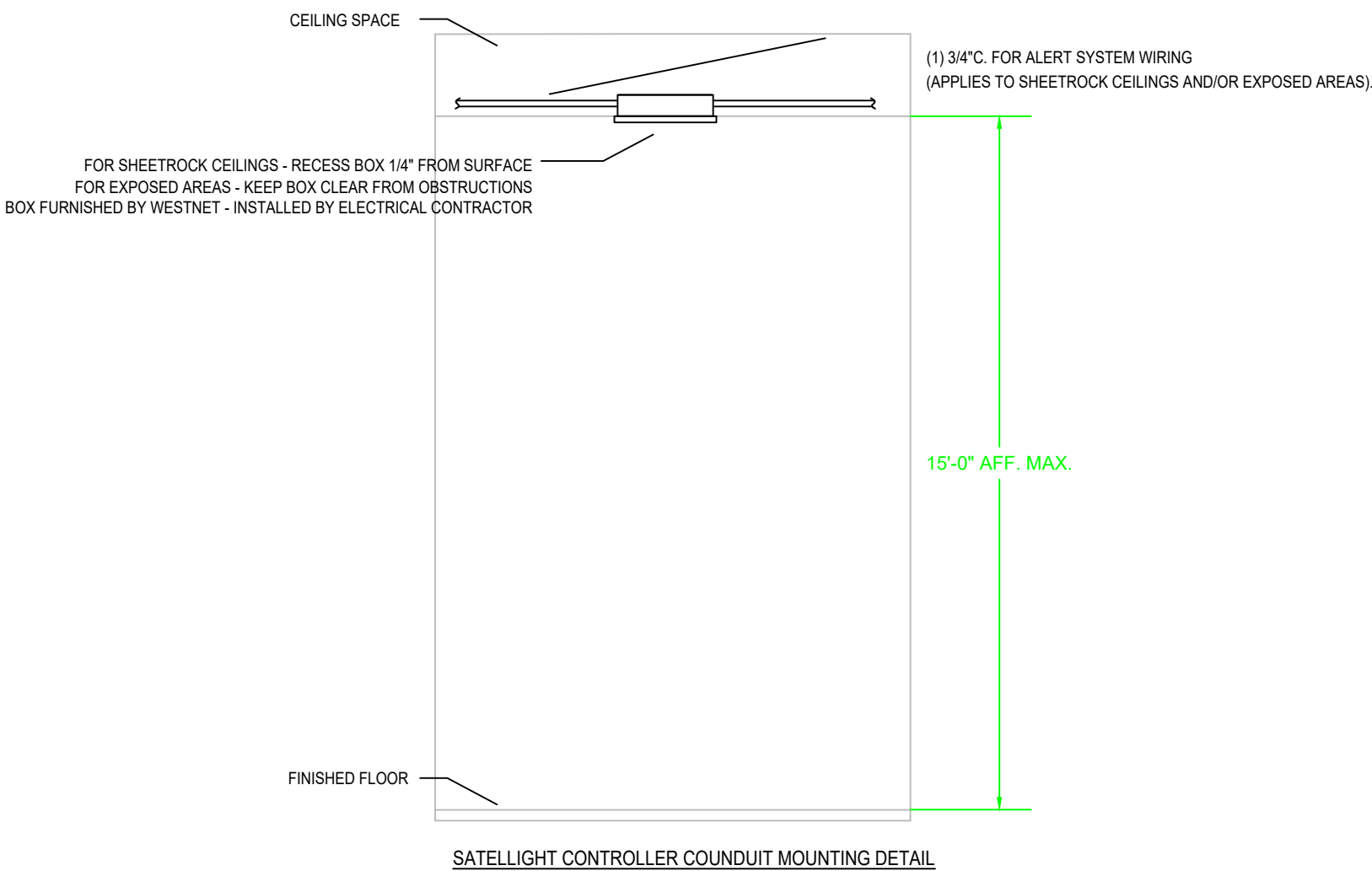
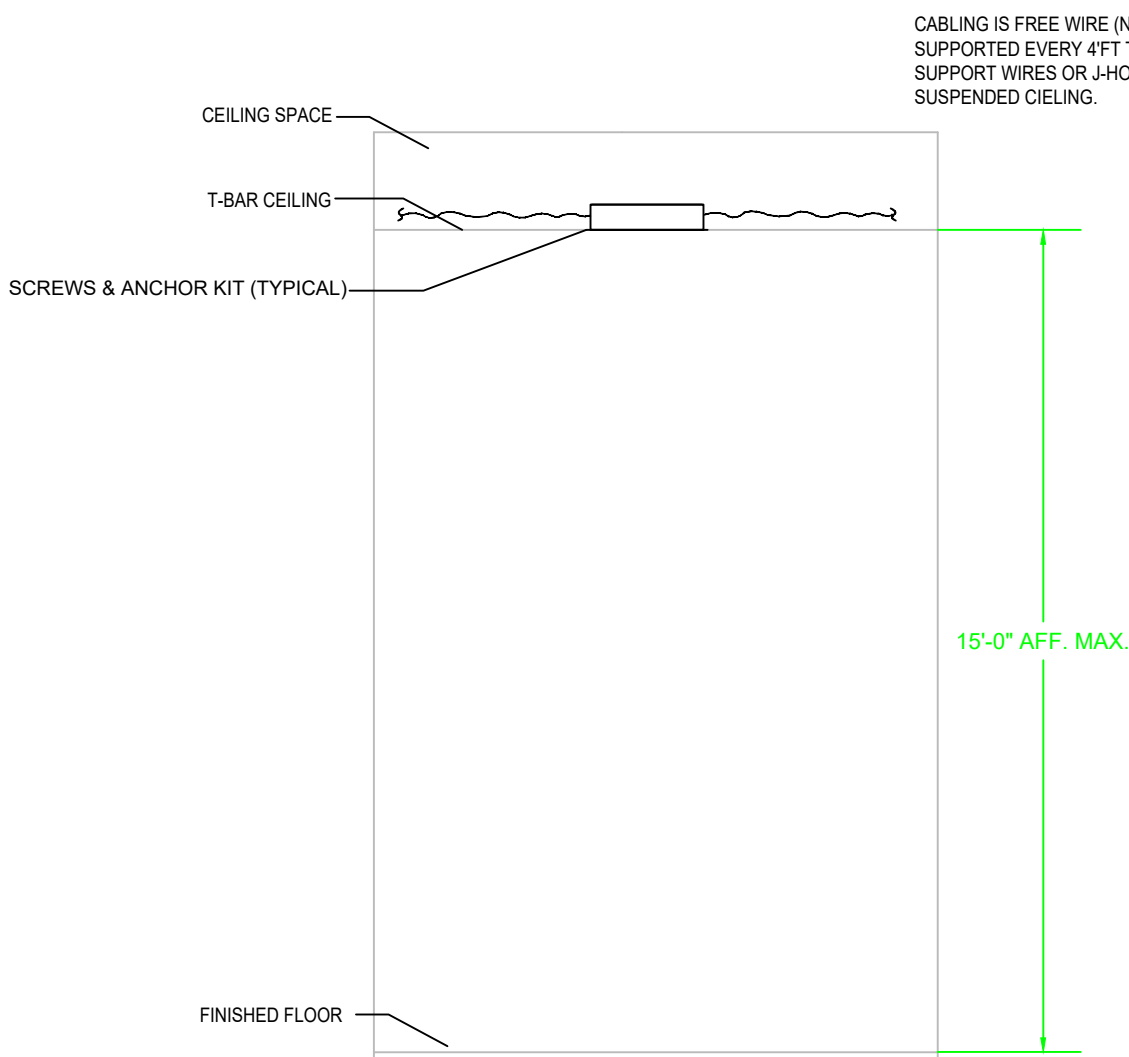
MTG KIT PIC.JPG



SMART STATION RACK DIAGRAM



- PM UPS** POWER MODULE AND UPS
- POWER MODULES SHALL SUPPLY THE SMART STATION CAT 5 PRIMARY ALARM NETWORK WITH A 24 VOLT DC OUTPUT.
 - THE POWER MODULE SHALL BE CENTRALLY LOCATED BETWEEN THE FIRE STATION RADIO, THE PRINTER, MASTER CONTROL UNIT AND THE DATA TERMINAL CONTROL UNIT IF THE FIRE STATION IS ETHERNET DISPATCHED.
 - SHALL SUPPLY SYNTHESIZED 110 VOLT AC POWER THAT IS PROTECTED FROM THE POWER GRID BY AN ON-LINE CONVERTER.
 - SHALL SENSE POWER LOSS AND NOTIFY THE MASTER CONTROL UNIT OF ANY OUTAGE.
 - LED STATUS INDICATORS SHALL SHOW FIRE PERSONNEL THE MODULE THE MODULE POWER STATUS.
 - STANDARD AC POWER FUSES SHALL BE CHANGEABLE BY FIRE STATION PERSONNEL.
 - EACH POWER SUPPLY SHALL BE ACCOMPANIED BY AN UNINTERRUPTIBLE POWER SUPPLY WITH CAPACITY TO RUN THE SYSTEM AT FULL OPERATION FOR SIXTY (60) MINUTES.



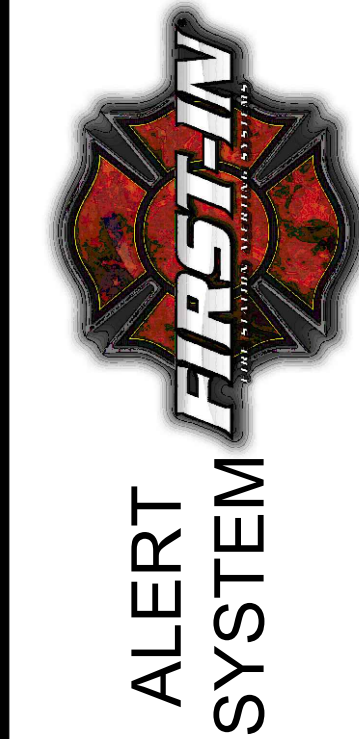
SATELLIGHT CONTROLLER — SC
SEE WESNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

SATELLIGHT SPEAKER — S
SEE WESNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

- SC** SATELLIGHT CONTROLLER
- SHALL OPERATE ON A CAT 5 SMART STATION PRIMARY ALARM NETWORK, WHICH IS DRIVEN FROM THE MCU.
 - OPERATE INDEPENDENTLY OR DRIVE UP TO (3) OR (4) DEVICES DEPENDING UPON THE LOCATION IN THE FIRE STATION.
 - AUDIO OUTPUT SHALL BE CONTROLLED BY SOFTWARE FROM THE MASTER CONTROL UNIT.
 - AUDIO OUTPUT SHALL BE ADJUSTABLE ACROSS A (90) DECIBEL RANGE.
 - SHALL BE CAPABLE OF INTELLIGENT SENSING AND CONTROL OF FIRE STATION SYSTEMS AND EQUIPMENT. CONTROLLER SHALL UTILIZE BI-DIRECTIONAL DATA THROUGHOUT THE SMART STATION NETWORK AND EXTEND CAPABILITY TO THE FIRE DEPARTMENT DISPATCH CENTER.
 - SHALL BE MOUNTED IN THE CEILING TO PROVIDE ALARM COVERAGE THROUGHOUT THE STATION.
 - ACOUSTICAL CEILING MOUNTING SECURES THE DEVICE TO THE T-BAR RAILS AND THE SUPERSTRUCTURE OF THE BUILDING.
 - DRYWALL AND PLASTER CEILING MOUNTING HARDWARE SHALL UTILIZE METAL HARDWARE THAT IS COLOR-MATCHED TO THE LAMP ASSEMBLY.

- S** SATELLIGHT, SPEAKER/LED LIGHT
- SHALL OPERATE ON A CAT 5 ALARM SUBNETWORK, WHICH IS DRIVEN FROM A DEVICE CONTROLLER.
 - AUDIO OUTPUT FROM THE DEVICES SHALL BE SET BY THE SOFTWARE FROM THE CONTROLLER.
 - AUDIO OUTPUT SHALL BE ADJUSTABLE ACROSS A (90) DECIBEL RANGE.
 - THE LIGHTING OUTPUT SHALL INCREASE AUTOMATICALLY DURING THE FIRST FEW SECONDS OF THE ALARM SEQUENCE.
 - SHALL BE MOUNTED IN CEILING TO PROVIDE ALARM COVERAGE THROUGHOUT THE STATION.
 - ACOUSTICAL CEILING MOUNTING SECURES THE DEVICE TO THE T-BAR RAILS AND THE SUPERSTRUCTURE OF THE BUILDING.
 - DRYWALL AND PLASTER CEILING MOUNTING HARDWARE INSTALLS DEVICES INTO THESE CEILINGS.

REV	REVISION	DATE	BY



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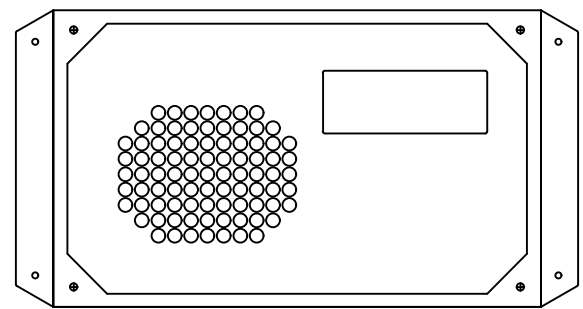
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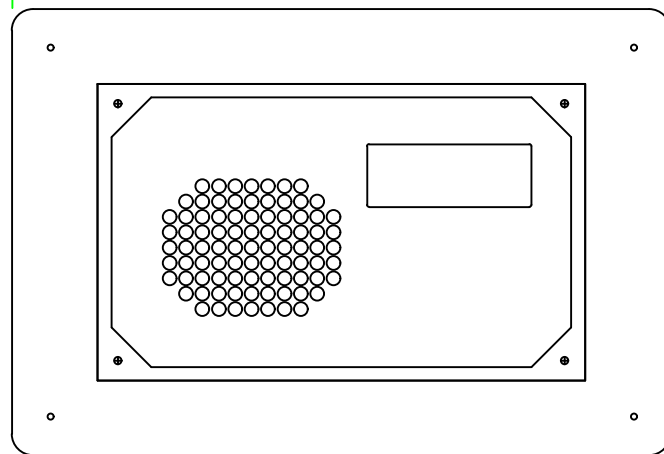
TITLE: DEVICE DETAILS



DORM REMOTE – DR

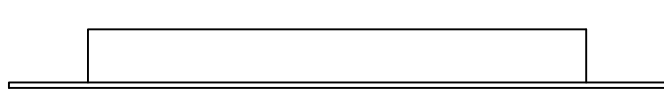
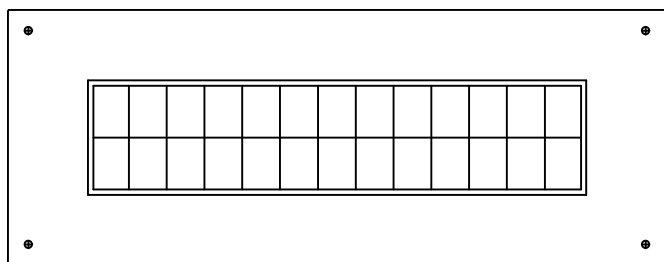
SEE WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

18" MINIMUM CLEARANCE FOR HOUSING AND FACEPLATE



DORM REMOTE WITH ATTACHED FACEPLATE

SEE WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS



DORM LIGHT – DL

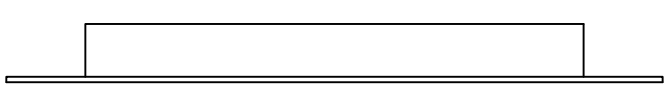
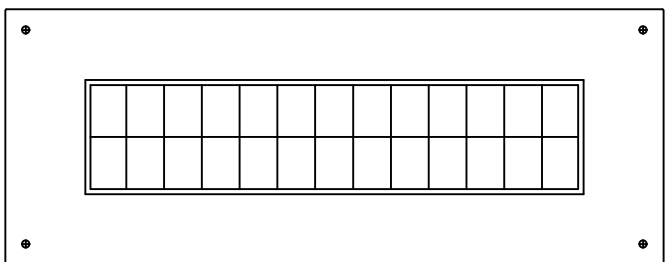
SEE WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

DR

DR

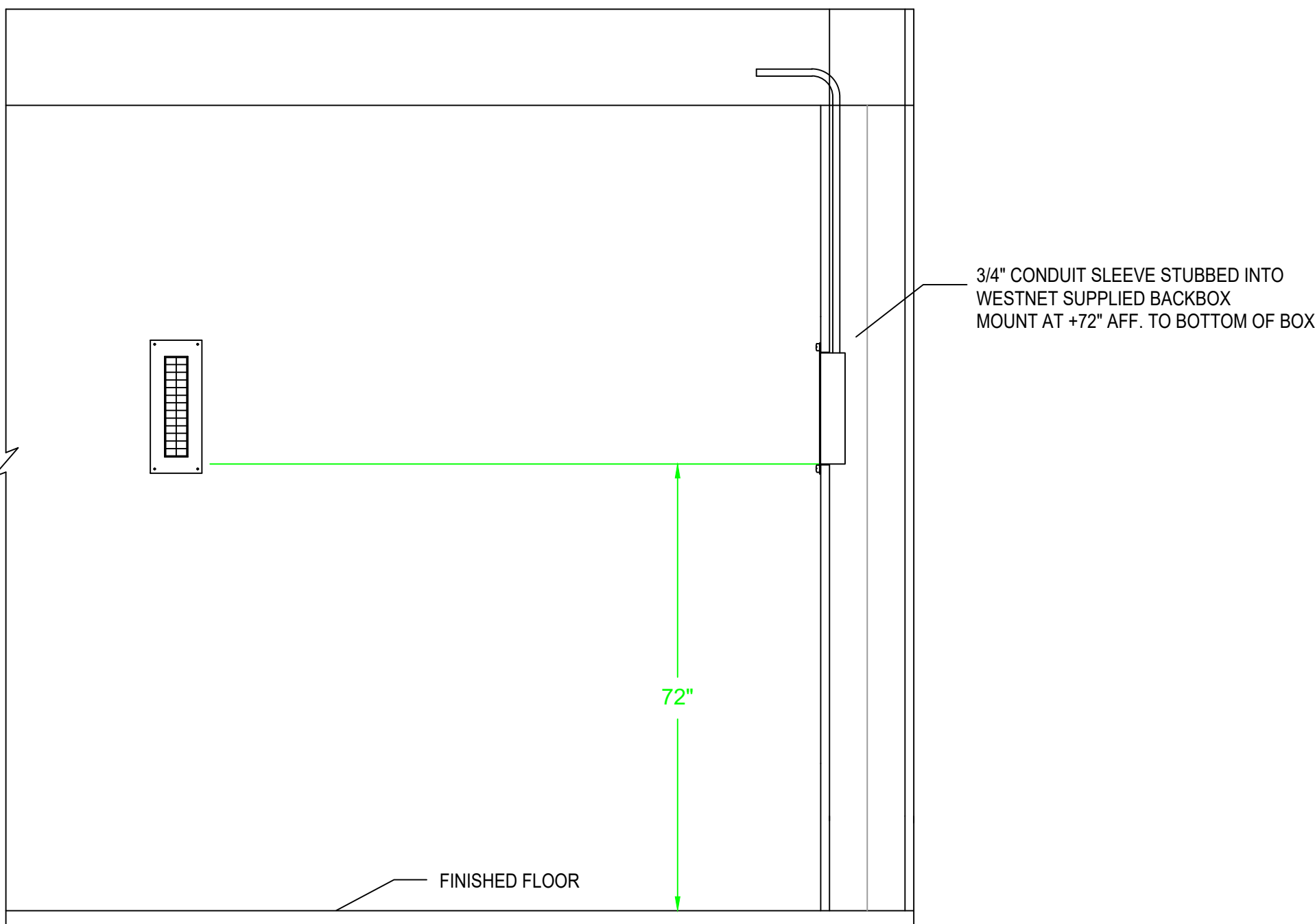
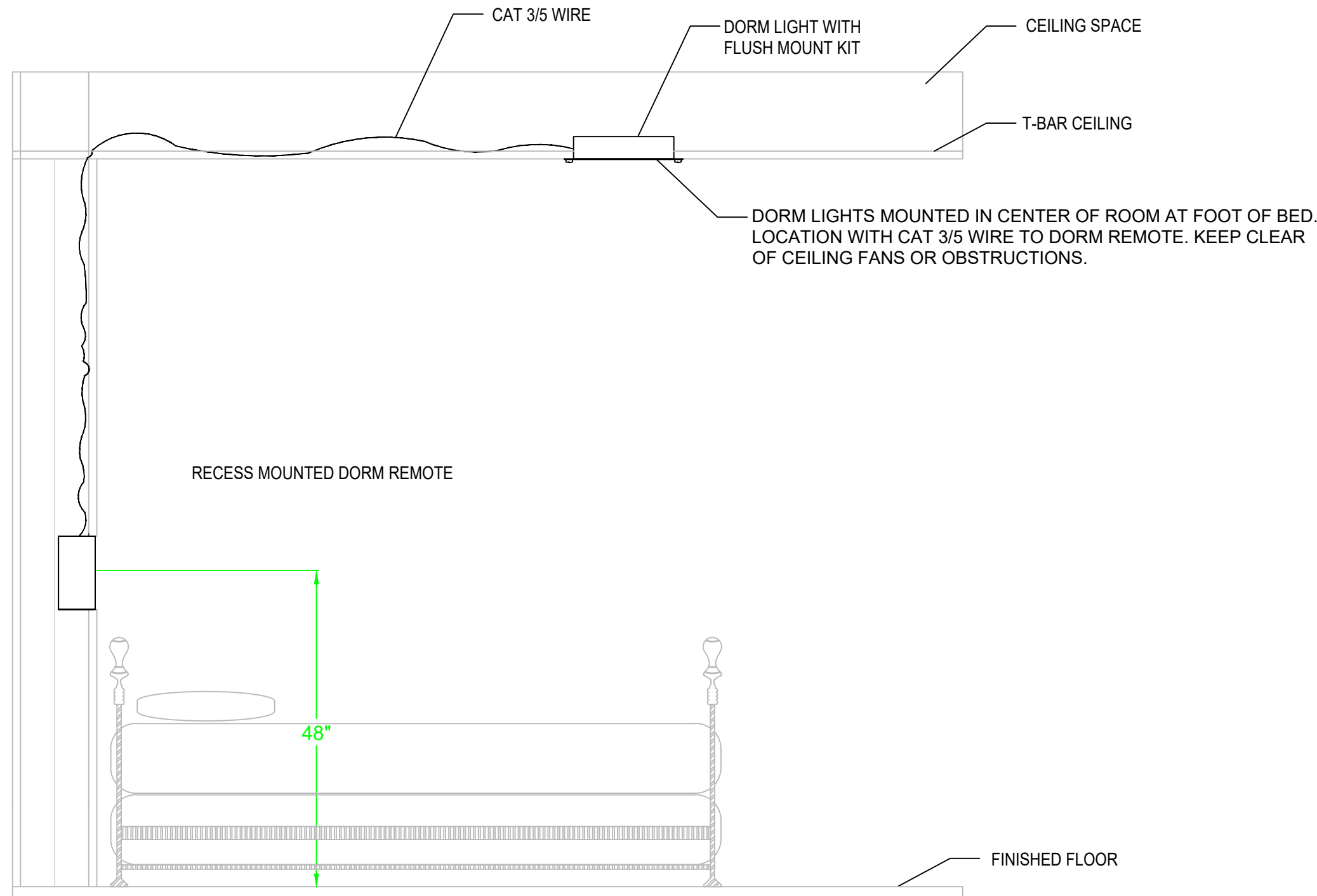
- DORM REMOTE WITH LIGHT

- SPEAKER/LIGHT DEVICES SHALL BE FIREFIGHTER PROGRAMMED TO ACTIVATE ON ALL ALARMS STARTING AT SHIFT CHANGE.
- THE DEVICE AUDIO SHALL BE ADJUSTED OVER A (60) DECIBEL RANGE IN (1) DECIBEL INCREMENTS TO AID IN THE REDUCTION OF AUDIBLE SHOCK THAT OCCURS WHEN THE FIREFIGHTER AWAKENS TO AN ALARM.
- THE LIGHTING SHALL INCREASE IN INTENSITY DURING THE FIRST FEW SECONDS OF THE ALARM SEQUENCE, TO REDUCE OPTICAL SHOCK UPON AWAKENING.
- THE LIGHT OUTPUT SHALL BE ADJUSTABLE BY EACH FIREFIGHTER.
- THE TWO-LINE DISPLAY SHALL BE USED FOR DISPLAYING TEXT MESSAGING.
- THE DEVICE SHALL OPERATE UP TO (4) COMBINATION SPEAKER/LIGHT DEVICES FOR ZONE CONTROLLED SLEEP AREAS.
- THE DEVICE SHALL BE DESIGNED TO BE WALL OR ROOM DIVIDER MOUNTED AT (2) FEET ABOVE THE HEIGHT OF THE BED TO PROVIDE ILLUMINATION FOR THE BED AND THE FLOOR.
- THE DEVICE SHALL BE SURFACE MOUNTED.
- ALL CONNECTIONS SHALL BE MODULAR PLUGS ENABLING RELOCATION OF DORM REMOTE WITH MINIMUM EFFORT.



ALERTING STROBE – FSSL

SEE WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS



FSSL ALERTING STROBE LAYOUT



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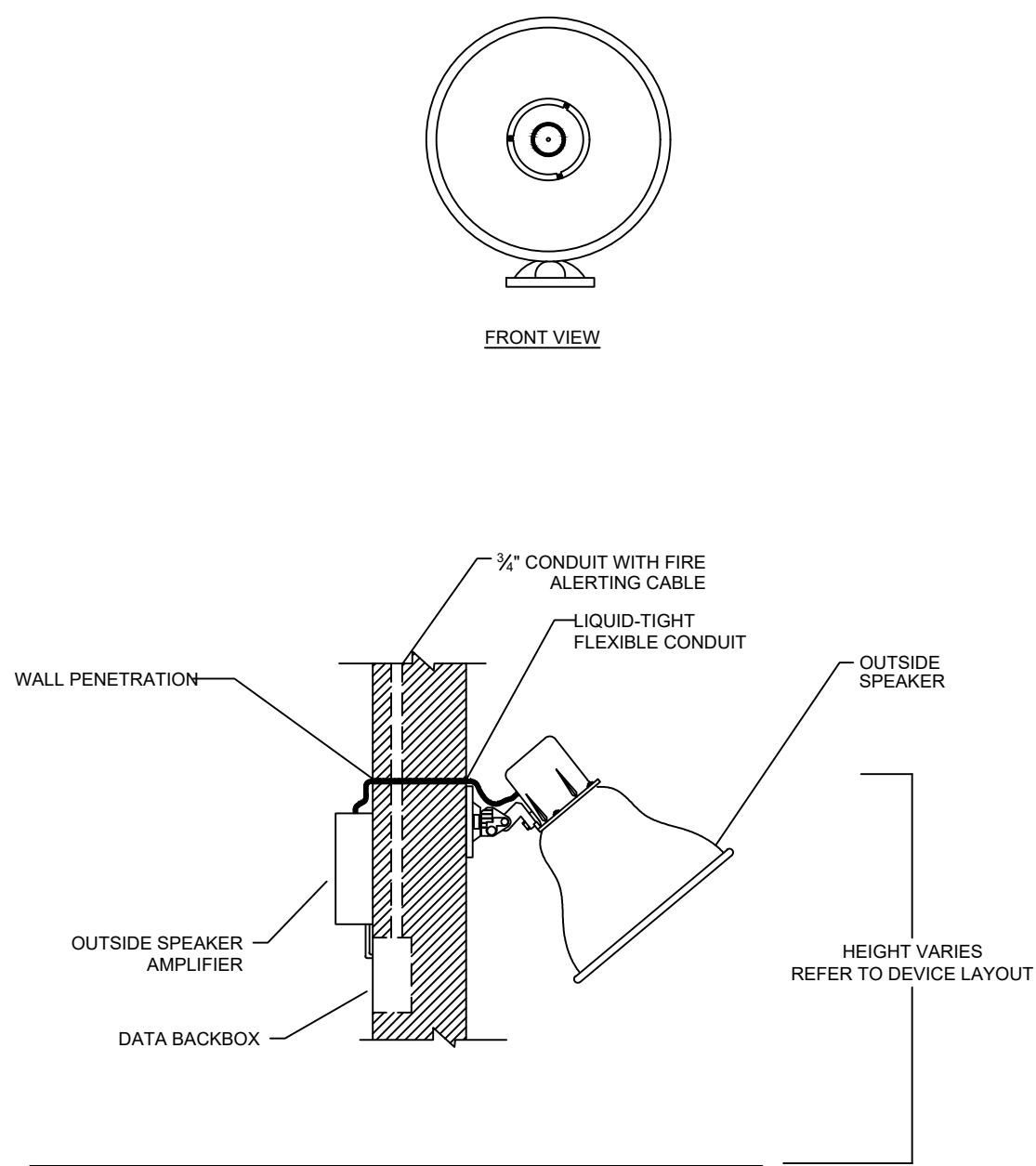
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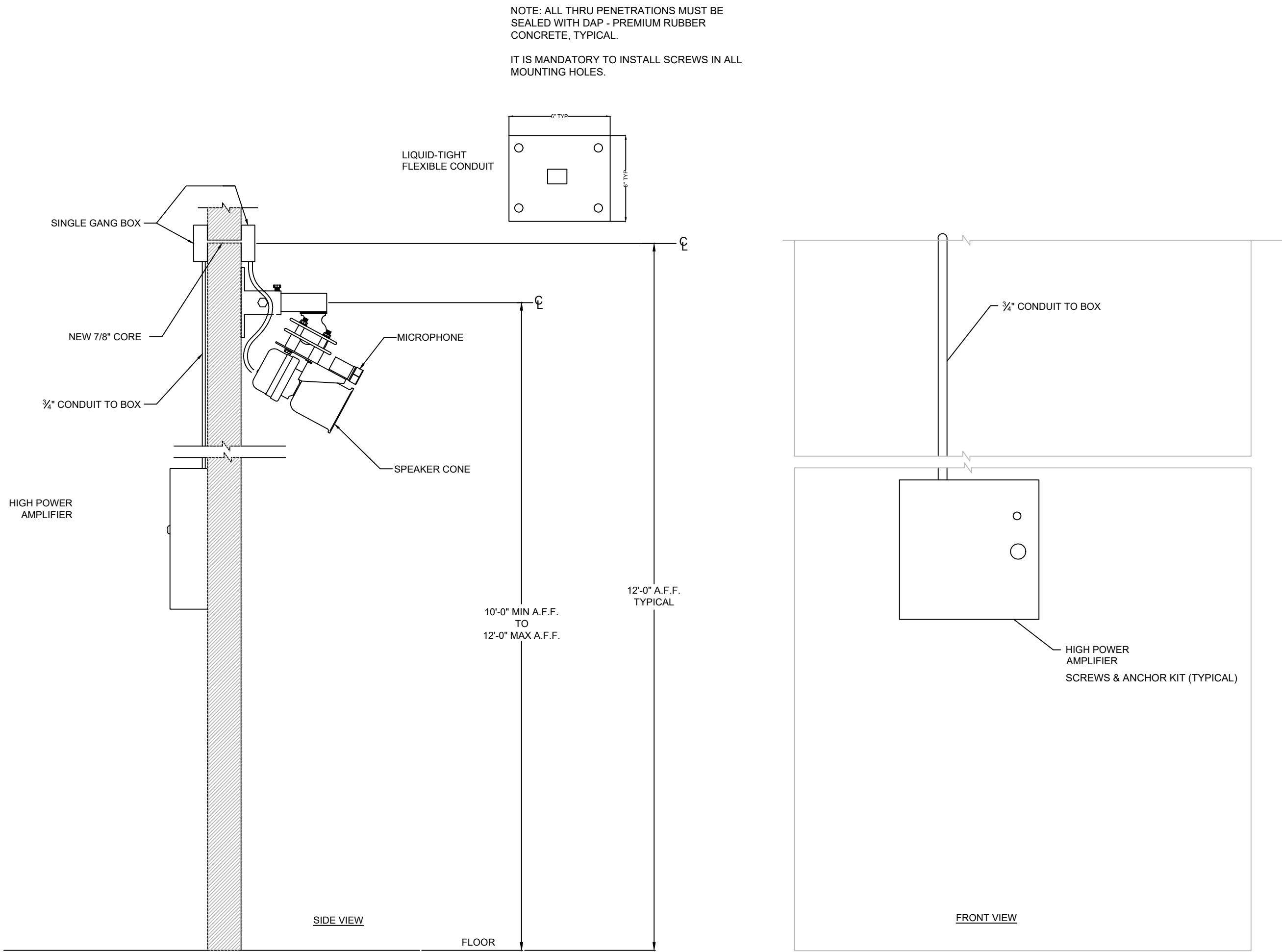
TITLE: DEVICE DETAILS

SHEET

AS4.3



OUTSIDE SPEAKER – OS
SEE WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS



HIGH POWER AMPLIFIER AND INTERIOR/EXTERIOR SPEAKER
SEE WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

HPA
AMP

- HIGH POWER PAGING AMPLIFIER AND SPEAKER**
- HIGH POWER AMPLIFIERS SHALL PROVIDE DYNAMIC CONTROL OF THE FIRE ALARM SOUND LEVELS IN HIGH NOISE AREAS OF THE FIRE STATION.
 - AMPLIFIERS SHALL BE USED THROUGHOUT THE APPARATUS BAYS AND ALONG THE PERIMETER OF EACH STATION.
 - INCREASED VOLUME SHALL PROVIDE AUDIBLE DISPATCH IN HIGH NOISE LEVEL AREAS.
 - AN AMBIENT NOISE DETECTOR SHALL SENSE SOUND LEVELS IN THE IMMEDIATE AREA AND CONTROL THE OUTPUT POWER FROM (0) TO (128) DECIBELS.
 - MAXIMUM OUTPUT POWER SHALL BE SET BY SERVICE SOFTWARE.
 - A BUILT IN VOLUME LED INDICATOR SHALL DISPLAY THE OUTPUT LEVEL CONTROL ACTIVITY.
 - BUILT IN LED STATUS INDICATORS SHALL INDICATE THE OPERATING MODE OF THE HIGH POWER AMPLIFIER.
 - MULTIPLE HIGH POWER AMPLIFIERS SHALL BE OPERATED ON THE SMART STATION NETWORK.
 - SPEAKERS SHOWN OUTDOORS SHALL BE WEATHERPROOF AND DESIGNED FOR OUTDOOR USE.
 - SPEAKER MOUNTS SHALL BE ADJUSTABLE TO ANY ANGLE AS NEEDED BY THE INSTALLATION.



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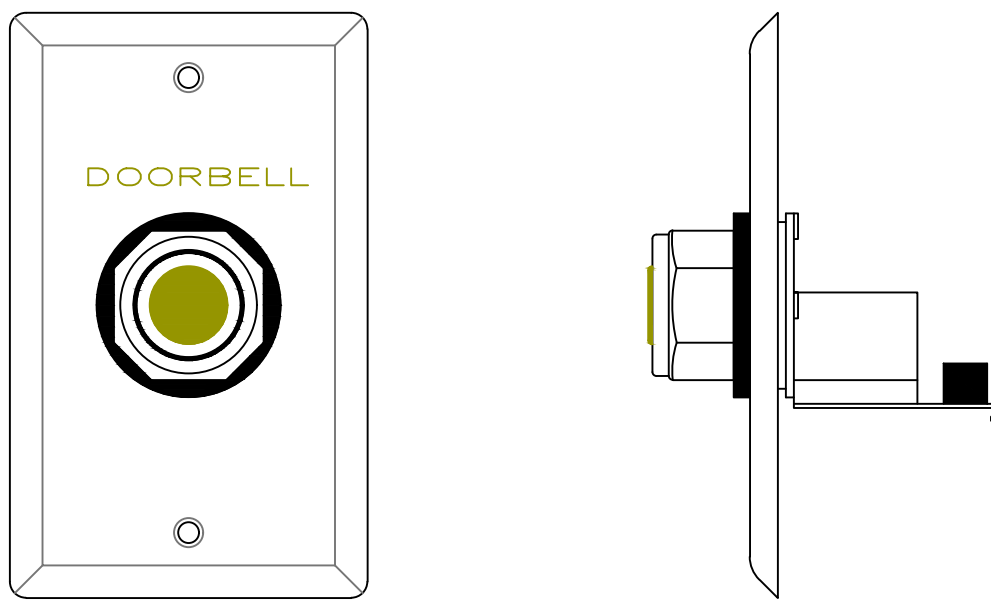
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TITLE: DEVICE DETAILS
SHEET

AS4.4



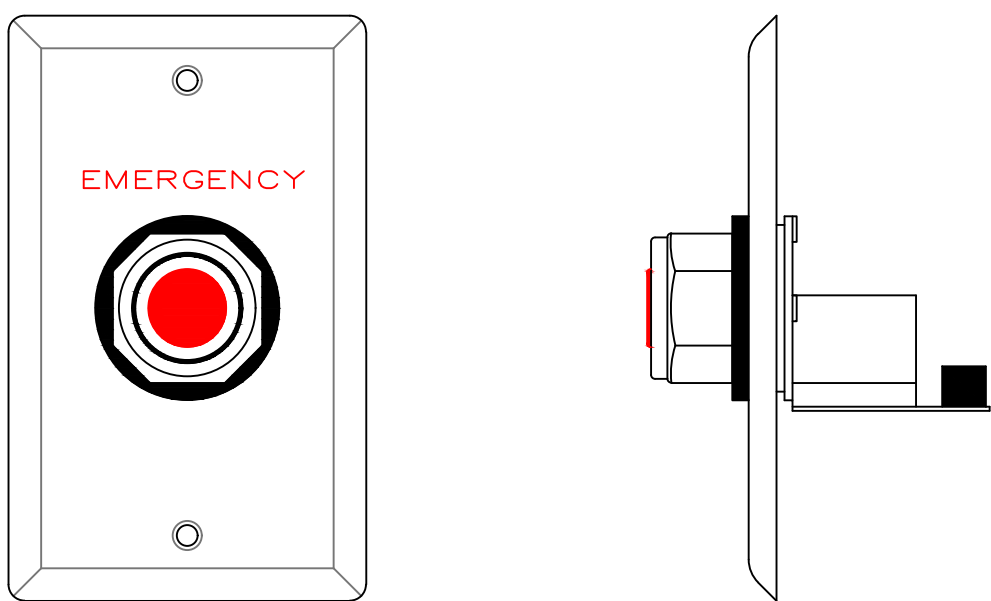
DOORBELL – DB

SEE WESNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

DB

DOORBELL

- SHALL NOTIFY PERSONNEL OF VISITOR ON FIRE STATION GROUNDS.
- NOTIFICATION OF VISITOR SHALL BE RELAYED TO DISPATCH CENTER.
- SHALL NOTIFY FIRE PERSONNEL AT WHICH DOOR THE VISITOR IS WAITING.
- SHALL PROVIDE BOTH AUDIBLE AND VISUAL NOTIFICATION OF DOORBELL ACTIVATION.
- PROVIDE CUSTOMIZED MESSAGES AND ALERT TONES.



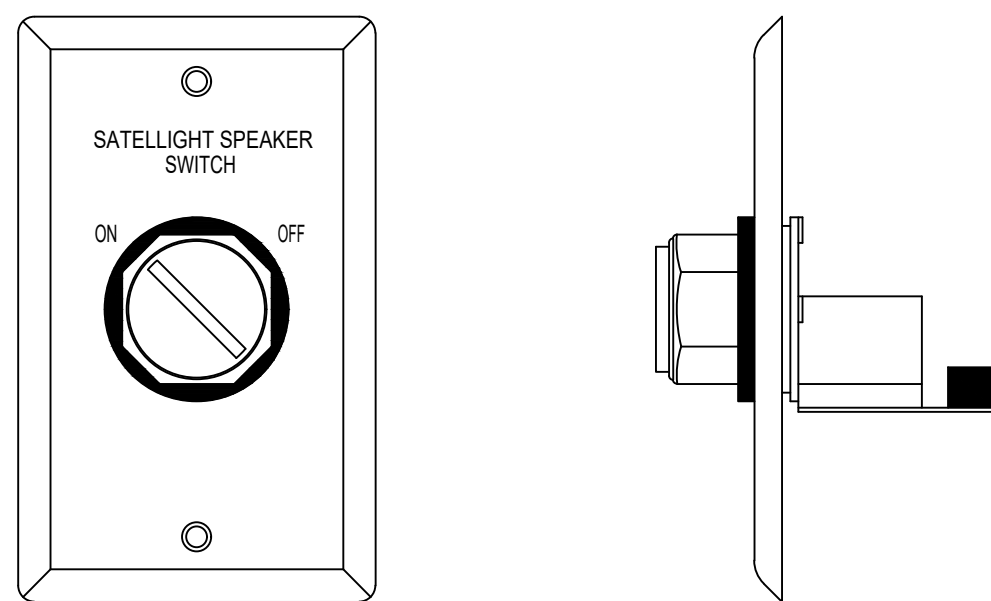
EMERGENCY BUTTON – EB

SEE WESNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

EB

EMERGENCY BUTTON

- SHALL NOTIFY PERSONNEL OF EMERGENCY ON FIRE STATION GROUNDS.
- SHALL NOTIFY DISPATCH CENTER OF INCIDENT OCCURANCE AT THE FIRE STATION.
- SHALL ENABLE THE FIRE FIGHTER TO ANSWER THE DOOR AND ATTEND TO THE PROBLEM IMMEDIATLY.
- SHALL PROVIDE BOTH AUDIBLE AND VISUAL NOTIFICATION OF AN EMERGENCY.
- PROVIDE CUSTOMIZED MESSAGES AND ALERT TONES.



03

SPEAKER SWITCH - SW

N.T.S.

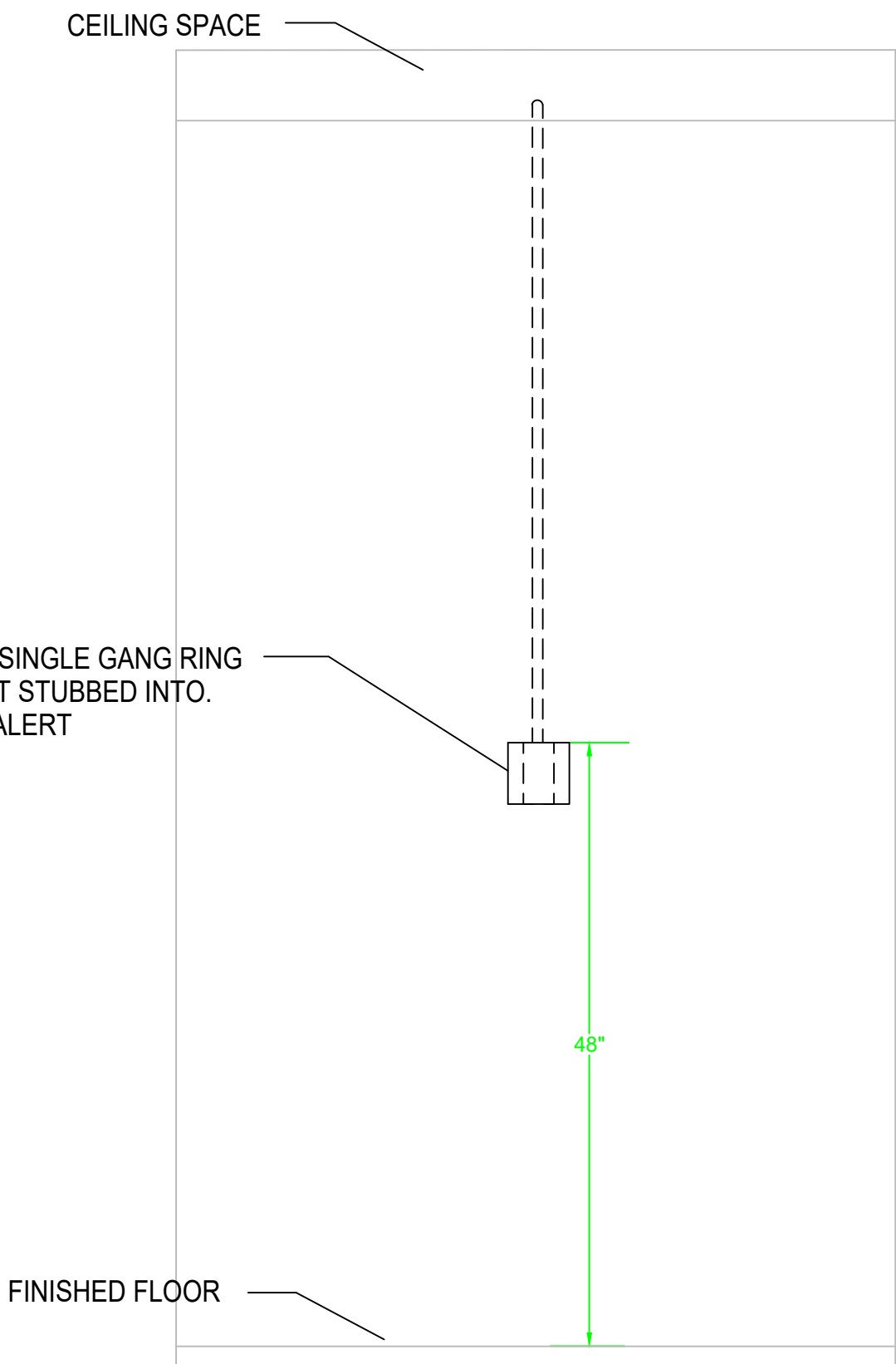
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

SW

SPEAKER SWITCH

- SHALL BE UTILIZED TO CONTROL THE ACTIVE/INACTIVE OPERATION OF THE SATELLIGHT CONTROLLER IN ROOM (COMBINATION SPEAKER/LED LIGHT DEVICE).

4 SQUARE DEEP BOX WITH SINGLE GANG RING PLATE WITH (1) 3/4"CONDUIT STUBBED INTO. ACCESSIBLE CEILING FOR ALERT SYSTEM CABLING - BY E.C.



SWITCH/BUTTON MOUNTING DETAIL

SEE WESNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS



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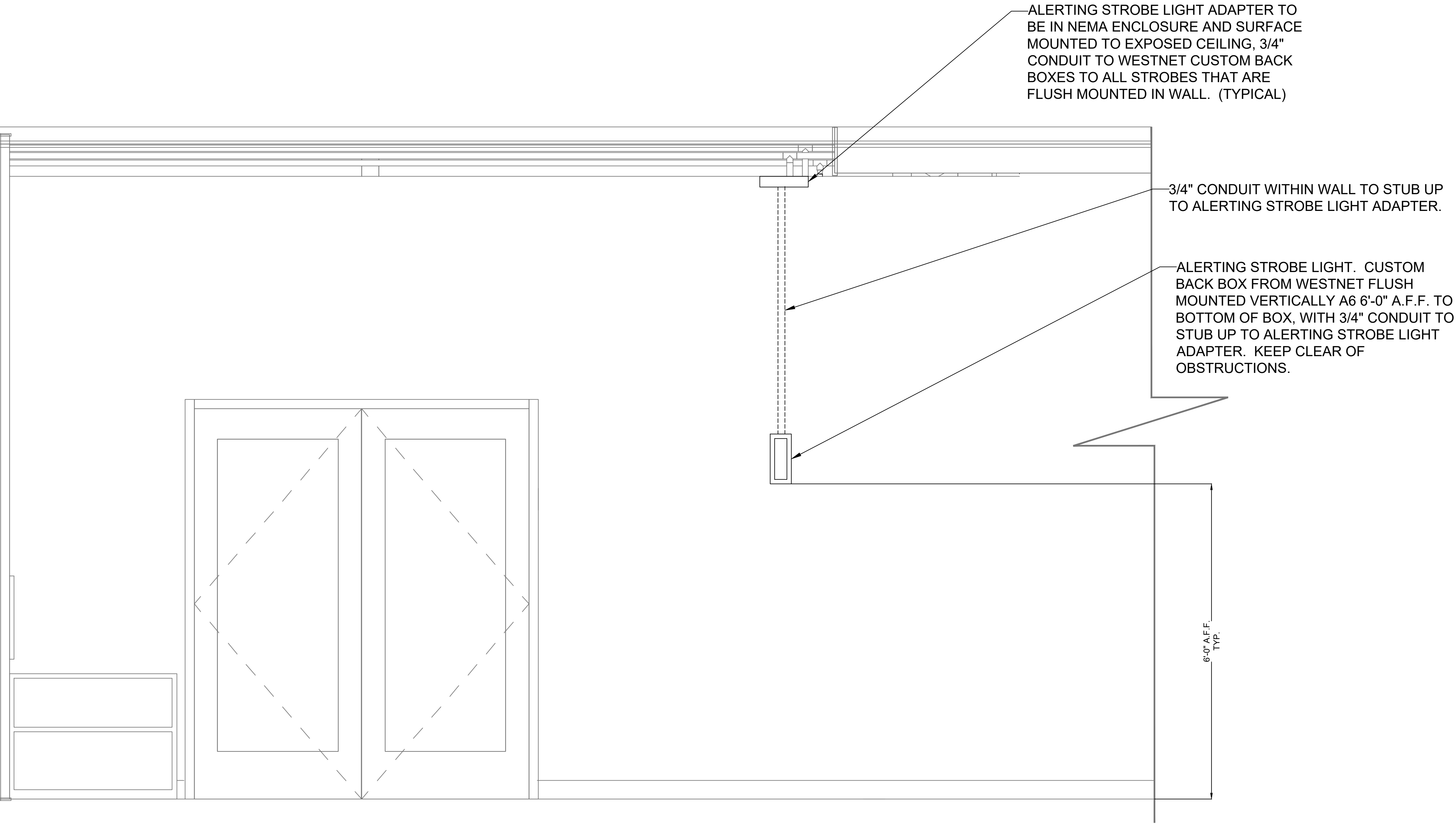
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TITLE: DEVICE DETAILS

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AS4.5



TYP. (FSSL) ALERTING STROBE LIGHT & ADAPTER (ASLA)
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TITLE: DEVICE DETAILS