PIERCE COLLEGE

S.T.E.M. BUILDING

1601 39TH AVENUE SE PUYALLUP, WA 98374

FIRE ALARM SYSTEM

SYMBOL LEGEND

SYMBOL	QTY	DESCRIPTION	MOUNTING REQUIREMENTS	SUPPLIER	PART NUMBER
FACU	1	INTELLIGENT FIRE ALARM SYSTEM CONTROL PANEL	SBB-xx ENCLOSURE MOUNTED AT 72" TO TOP	NOTIFIER	NFS2-3030
EVAC	1	REMOTE VOICE EVACUATION PANEL 2-50W AMPLIFIERS, 8-CIRCUITS, 1-NAC 2.0A	PART INCLUDES ENCLOSURE; MOUNT AT 72" TO TOP	NOTIFIER	NFC-100 w/ NFC-CE6
MIC	1	VOICE EVACUATION REMOTE MICROPHONE	PART INCLUDES ENCLOSURE; MOUNT AT 72" TO TOP	NOTIFIER	NFC-RM
FAA	1	REMOTE ANNUNCIATOR - 160 CHARACTER	ABF-2DB ENCLOSURE AT 66" TO TOP	NOTIFIER	LCD-160
S	316	INTELLIGENT PHOTO SMOKE DETECTOR	4 SQUARE DEEP w/ 3" ROUND RING	NOTIFIER	FSP-951 w/ B300-6
135°	10	INTELLIGENT HEAT DETECTOR: 135' (FIXED TEMP)	4 SQUARE DEEP w/ 3" ROUND RING	NOTIFIER	FST-951 w/B300-6
190°	7	INTELLIGENT HEAT DETECTOR: 190' (FIXED TEMP)	4 SQUARE DEEP w/ 3" ROUND RING	NOTIFIER	FST-951H w/B300-6
S	31	INTELLIGENT DUCT PHOTO SMOKE DETECTOR	SURFACE MOUNT DSD (REF. MFG INFORMATION) MOUNT RTS AT 12" BELOW CEILING ON WALL	NOTIFIER	DNR w/FSP-951R
F	1	INTELLIGENT MANUAL PULL STATION	4 SQUARE DEEP w/ 1 GANG RING; MOUNTED AT 48" TO TOP	NOTIFIER	NBG-12LX
AIM	1	INTELLIGENT MONITOR MODULE	4 SQUARE DEEP	NOTIFIER	FMM-1
AIM 2	16	INTELLIGENT MONITOR MODULE DUAL CIRCUIT	4 SQUARE DEEP	NOTIFIER	FDM-1
AOM C	4	INTELLIGENT OUTPUT CONTROL MODULE	4 SQUARE DEEP	NOTIFIER	FCM-1
AOM R	21	INTELLIGENT RELAY MODULE	4 SQUARE DEEP	NOTIFIER	FRM-1
IM	2	SLC ISOLATION MODULE	4 SQUARE DEEP	NOTIFIER	ISO-X
R	4	DRY-CONTACT REMOTE SLAVE RELAY (SPDT)	PART INCLUDES BACKBOX; SURFACE MOUNT	FUNCTIONAL DEVICES, INC.	RIB01BDC
SS	2	24VDC SURGE SUPPRESSOR; 4PR, 14-30VDC, 16-22AWG	4 SQUARE DEEP	DITEK	DTK-4LVLP-LV
NAC	3	REMOTE NAC POWER SUPPLY w/ ONBOARD FCM-1 8.0A, 7- 3.0A NAC & 1- 0.5A AUX POWER	PART INCLUDE BACKBOX; SURFACE MOUNT	NOTIFIER	HPF-PS10B w/ FCM-1
C	9	CEILING SPEAKER: WHITE	4 SQUARE DEEP w/ EXT RING; MOUNTED AT 80" TO BOTTOM	SYSTEM SENSOR	SPCWL
S C	87	CEILING SPEAKER w/ STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE cd SETTING	4 SQUARE DEEP w/ EXT RING; CENTER ON CEILING TILE	SYSTEM SENSOR	SPSCWL
C	30	CEILING STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE cd SETTING	4 SQUARE DEEP; CENTER ON CEILING TILE	SYSTEM SENSOR	SCWL
	1	WALL SPEAKER: SQUARE: WHITE	4 SQUARE DEEP w/ EXT RING; MOUNTED AT 90" AFF TO TOP	SYSTEM SENSOR	SPWL
S	10	WALL SPEAKER w/ STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE cd SETTING	4 SQUARE DEEP w/ EXT RING; MOUNTED AT 80" TO BOTTOM	SYSTEM SENSOR	SPSWL
S WP	2	WALL SPEAKER w/ STROBE: WHITE: WEATHERPROOF SEE DEVICE DESIGNATION FOR STROBE cd SETTING	PART INCLUDES WP BACKBOX; MOUNT AT 80" TO BOTTOM	SYSTEM SENSOR	SPSWK
B	1	SPRINKLER WATERFLOW BELL 10" BELL, RED, 24VDC;	WBB BACK BOX: SURFACE MOUNT AT NO HIGHER THAN 120" ABOVE GRADE	SYSTEM SENSOR	SSM24-10

NOTES:

1- DEVICE SUBSCRIPT: RR=REMOVE & RELOCATE EX=EXISITNG TO REMAIN AC=ABOVE CEILING RB=RELAY BASE WP=WATERPROOF WG=WIRE GUARD
2- CABLING SHOWN IS FOR CIRCUIT REFERENCE ONLY AND DOES NOT INTEND TO INDICATE THE EXACT PATHWAY.
3- DEVICES SHOWN ON DRAWINGS IN GRAY SCALE ARE EXISTING DEVICES AND MAY NOT BE INCLUDED IN THIS SYMBOL LEGEND UNLESS NOTED.
4- SET HORN/STROBE DECIBLE SETTING TO LOW FROM FACTORY SETTING OF HIGH, ONLESS OTHERWISE NOTED ON THE DRAWINGS.
5- ALL DEVICES WITH A WP SUBSCRIPT WILL REQUIRE THE USE OF A OUTDOOR OR WP BACKBOX.

SCOPE OF WORK & DESIGN BASIS

- NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, FULL COVERAGE SMOKE DETECTION, MONITORING HVAC, SPRINKLER SYSTEM, ERRCS, GENERATOR.
- IN OPEN AREAON FIRST AND SECOND FLOORS SMOKE DETECTOR AND NOTIFICATION DEVICES ARE TO BE WALL MOUNTED PER ARCHITECT.

DESIGN CRITERIA APPLIED CODES AND STANDARDS:
NFPA 72 2019 EDITION
IBC 2018 EDITION WITH WASHINGTON AMENDMENTS
NFPA 70 (NEC) 2017 EDITION
PUYALLUP MUNICIPAL CODE

DOCUMENTS RECEIVED BYADT:
integrus ARCHITECTURE
SHEETS: ARCH,ELECTRICAL DRAWING SETS
DATE: 08/31/2022

USE AND OCCUPANCY CLASSIFICATION (SECTIONS 302, 303, 304 & 311)
GROUP "B" BUSINESS (HIGHER EDUCATION FACILITIES, OFFICES, ALL OTHER AREAS EXCEPT AS NOTED BELOW)
GROUP "A-3" ASSEMBLY (LECTURE HALL)
GROUP "S-1" STORAGE

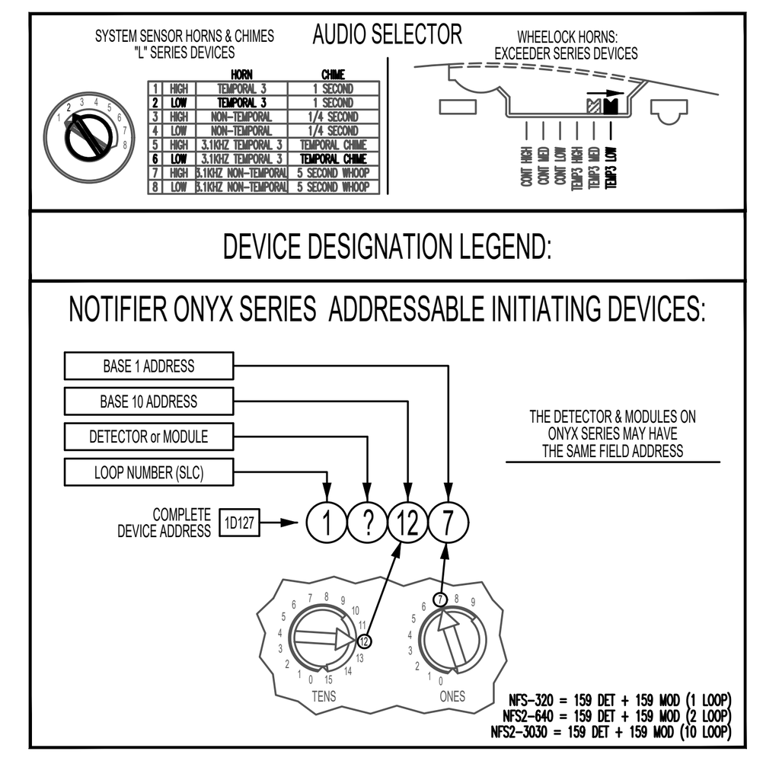
INSTALLATION & GENERAL WIRING NOTES:

GENERAL NOTES:

1. INSTALLATION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH NFPA, LOCAL AND STATE AHJ's, NEC AND CONTRACT DRAWINGS
2. WIRE ROUTING IS DIAGRAMMATIC IN NATURE ONLY AND NOT INTENDED FOR ACTUAL CONDUIT ROUTING.
3. ALL CONDUIT SIZING AND ROUTING BY ELECTRICAL CONTRACTOR PER NEC AND AHJ.
4. VERIFY ALL LOCATIONS OF DEVICES WITH ELECTRICAL/ARCHITECTURAL PLANS. SCALE AND PLACE ALL DEVICE PER ELECTRICAL/ARCHITECTURAL PLANS.
5. ALL CIRCUITS WILL BE PROPERLY TAGGED AND TESTED FOR OPENS, SHORTS, GROUNDS AND PROPER "END-OF-LINE" RESISTANCE. EACH CIRCUITS METER READING MUST BE DOCUMENTED AND PRESENTED TO ADT COMMERCIAL/EVERON FIELD TECHNICIAN UPON ARRIVAL ONSITE FOR STARTUP & CHECKOUT.
6. AS-BUILTS:
   - 6.1. A SET OF INSTALLATION AS-BUILT DRAWINGS SHOWING ACTUAL CONDUIT AND CONDUCTOR ROUTES SHALL BE KEPT BY PROJECT FOREMAN FOR USE BY ADT COMMERCIAL/EVERON TECHNICIAN.
   - 6.2. AS-BUILTS SHALL BE KEPT ORDERLY AND BE CLEARLY MARKED WITH DIFFERENT COLOR PENS FOR EACH CIRCUIT AND/OR CIRCUIT TYPE. AS-BUILTS MUST INDICATE CHANGES TO THE FINAL DEVICE INSTALLED LOCATIONS IF NOT INSTALLED AT LOCATION SHOWN ON DESIGN DOCUMENTS.
   - 6.3. AS-BUILT REDLINES NOT PROVIDING THIS INFORMATION WILL BE RETURNED TO THE INSTALLATION CONTRACTOR FOR CORRECTION. ADT COMMERCIAL/EVERON IS NOT RESPONSIBLE FOR THESE DELAYS.
7. AGREEMENT AND CONFIRMATION OF ALL MILESTONE EVENTS WILL BE MADE WITH ADT COMMERCIAL/EVERON PROJECT MANAGER.
8. ALL ADT COMMERCIAL/EVERON FIELD SERVICES MUST BE SCHEDULED WITH ADT COMMERCIAL/EVERON PROJECT MANAGER WITH A MINIMUM OF 14 WORKING DAYS ADVANCE NOTICE.
9. DO NOT INSTALL LINE VOLTAGE IN SAME CONDUIT AS POWER LIMITED CABLES.

FIRE ALARM SPECIFIC NOTES:

1. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF ANY AIR DIFFUSER.
2. 2019 NFPA 72-17.7.1.11 REQUIRES THAT SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER FINAL CONSTRUCTION CLEAN-UP.
   - 2.1. ANY SMOKE DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO CLEAN-UP MUST BE CLEANED OR REPLACED AND WILL BE INVOICED ON A T&M BASIS.
3. WALL MOUNTED NOTIFICATION DEVICES BACKBOX BETWEEN A MINIMUM OF 80" A.F.F TO A MAXIMUM OF 96" A.F.F.
   - 3.1. DEVICES THAT ARE UNABLE TO BE MOUNTED WITHIN THAT RANGE MUST BE VERIFIED BY ADT COMMERCIAL/EVERON PRIOR TO INSTALLATION.
   - 3.2. SEE FLOOR PLANS FOR CANDELA RATING OF EACH DEVICE INSTALLED.
4. ALL MANUAL PULL STATIONS ARE TO BE MOUNTED AT A HEIGHT BETWEEN 42"-48" A.F.F. (PER ADA REQUIREMENTS).
5. FIELD VERIFY ALL SPRINKLER MONITORING DEVICES WITH FIRE PROTECTION CONTRACTOR
6. FIELD VERIFY ALL HVAC, FAN CONTROL, FIRE/SMOKE DAMPERS AND DUCT DETECTORS LOCATIONS WITH MECHANICAL CONTRACTOR
7. FACU SHALL NOT BE ENERGIZED WITHOUT THE PRESENCE OF ADT COMMERCIAL/EVERON TECHNICIANS.
8. NO TAPPING OF SIGNALING OR INITIATING ZONE CIRCUITS ARE ALLOWED. T-TAPPING OF STYLE 4 ADDRESSABLE CIRCUITS IS ALLOWED PROVIDING A SPLICE IS PROFESSIONALLY INSTALLED, POLARITY IS OBSERVED AND SHIELDS ARE CONTINUOUS AND FREE OF GROUNDS. SHIELDS MUST BE TERMINATED AT FACU ONLY.
   - 8.1. CABLE SHIELDS SHALL BE SPLICED TOGETHER AT EVERY JUNCTION BETWEEN THE FACU AND THE LAST DEVICE ON EACH CABLE RUN. SHIELDS AND OTHER FIRE ALARM CONDUCTORS (EXCEPT POWER GROUNDS) SHALL BE INSULATED AND COMPLETELY FREE FROM CONDUIT OR EARTH GROUNDS. SHIELDS WILL BE TIES TO GROUND ONLY AT THE FACU BY THE ADT COMMERCIAL/EVERON FIELD TECHNICIAN.
9. THE SYSTEM SHALL BE MONITORED BY A U.L. LISTED MONITORING STATION BEFORE AHJ TEST.
10. AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. ADT COMMERCIAL/EVERON REQUIRED ELECTRICAL RED LINES WITHIN 2 WEEKS PRIOR TO AHJ TESTS.
   - 10.1. EACH CIRCUIT (SLC, NAC OR POWER) MUST BE CLEARLY IDENTIFIED WITH A DISTINCT COLOR
   - 10.2. EACH NAC/SPEAKER CIRCUIT MUST BE CLEARLY MARKED AS TO WHICH DEVICES ARE ON EACH CIRCUIT AND IN THE ORDER THE DEVICES ARE WIRED TO COMPLETE THE CIRCUIT.

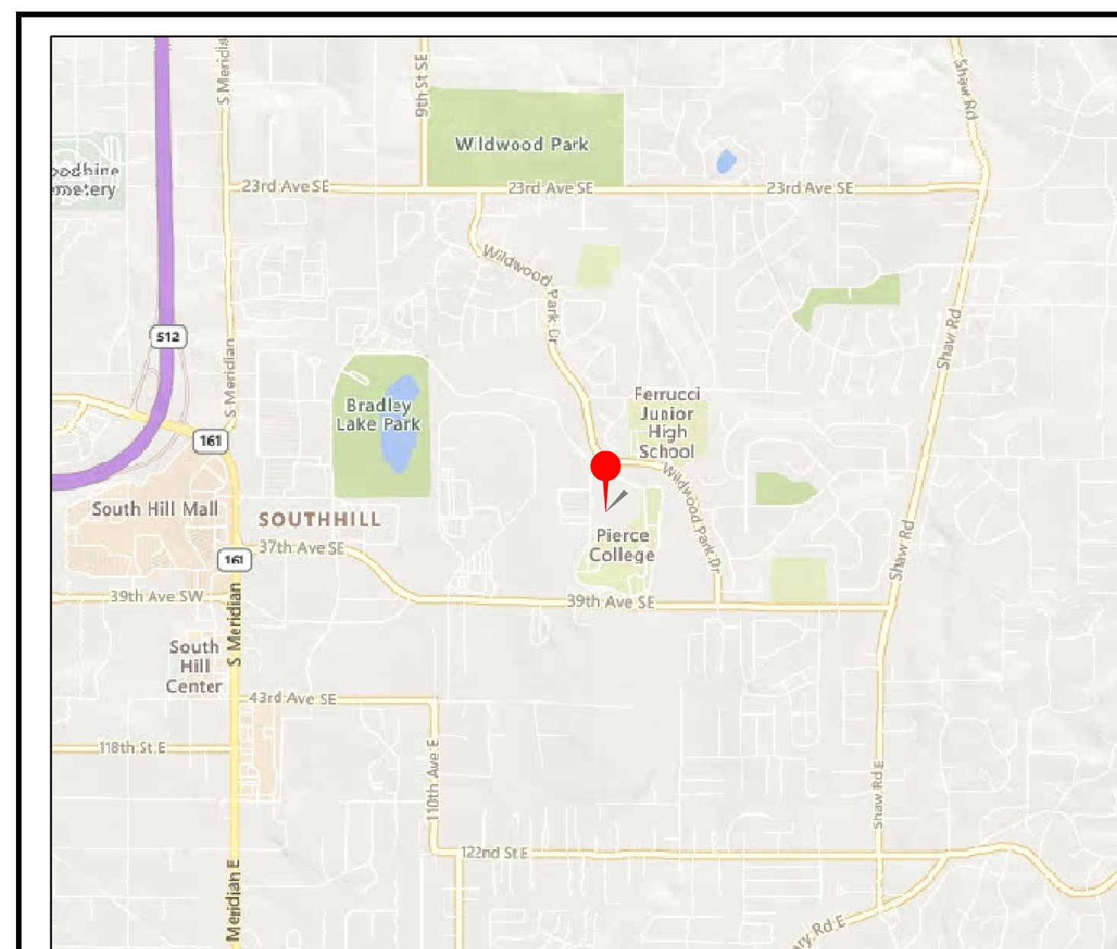


PROJECT CONTACT INFORMATION:

CUSTOMER:	
NAME:	Valley Electric
ADDRESS:	1100 Merrill Creek PRWY
	Everett, WA 98203
CONTACT:	Joe Tremblay
PHONE:	206.743.5989
FAX:	
EMAIL:	joet@velectric.com

CIRCUIT WIRING LEGEND

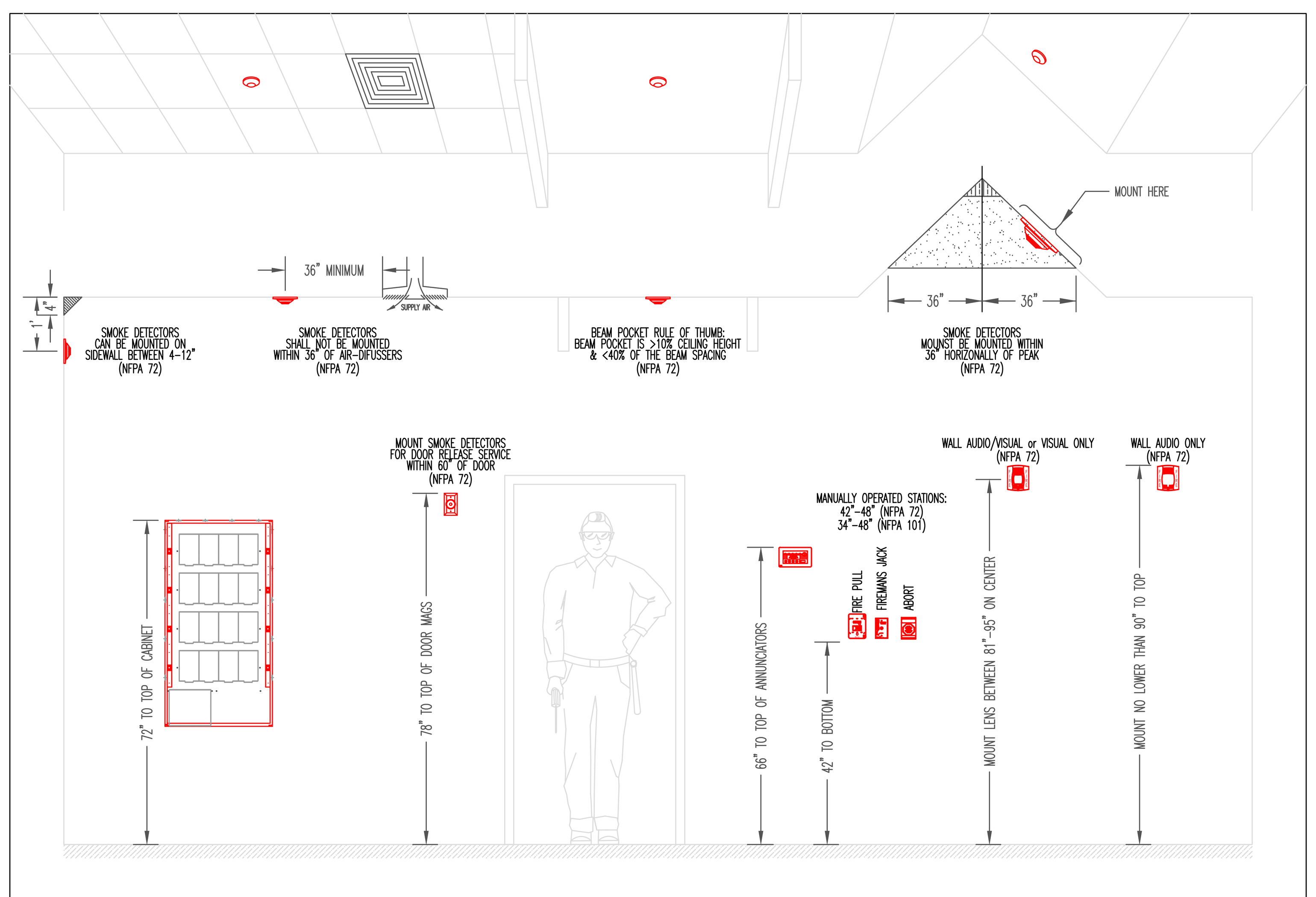
A	SPEAKER/AUDIBLE CIRCUIT WIRE #14/2 AWG - FPLP POWER LIMITED CLASS 'B1'
G	REMOTE ANNUNCIATOR CIRCUIT WIRE #16/4 AWG SHIELDED - FPLP POWER LIMITED CLASS 'B1'
M	REMOTE MICROPHONE CIRCUIT WIRE #16/2 AWG SHIELDED - FPLP POWER LIMITED CLASS 'B1'
N	NAC (NOTIFICATION APPLIANCE CIRCUIT) WIRE #14/2 AWG - FPLP POWER LIMITED CLASS 'B1'
P	24V POWER WIRE WIRE #14/2 AWG - FPLP POWER LIMITED CLASS 'B1'
S	SLC (SIGNALING LINE CIRCUIT) WIRE #16/2 AWG - FPLP POWER LIMITED CLASS 'B1'
V	NAC (NOTIFICATION APPLIANCE CIRCUIT) VISUAL DEVICES WIRE #14/2 AWG - FPLP POWER LIMITED CLASS 'B1'



VICINITY MAP

FLAGNOTES

NOTE #	DESCRIPTION
1	MOUNT DETECTOR TO THE DECK, DIRECTLY ABOVE THE DETECTOR AT THE CEILING CLOUD LEVEL.
3	MOUNT DETECTOR TO THE DECK OR WALL-MOUNT TO THE STRUCTURE (TOP OF THE DETECTOR HEAD MAXIMUM OF 12") FROM THE DECK.
4	WALL-MOUNT DETECTOR IN THE SKYLIGHT.
5	MOUNT DETECTOR UNDER STAIR LANDING.
6	WALL-MOUNT DETECTOR TO THE STRUCTURE (TOP OF THE DETECTOR HEAD MAXIMUM OF 12") FROM THE DECK, ABOVE CEILING BAFFLES.
7	ROUTE 120VAC SWITCH LEG OF DAMPER CIRCUIT FOR DAMPER SHUTDOWN (ON ALARM) THROUGH RIB01BDC. LOCATE WITHIN 3' OF ELECTRICAL PANEL PROVIDING 120VAC FOR DAMPER CIRCUIT.
8	ROUTE 120VAC SHUNT-TRIP POWER THROUGH RIB01BDC CONTACTS FOR ELEVATOR POWER SHUTDOWN & DISCONNECT.
9	MOUNT DETECTOR ON STRUCTURE IN VERTICAL SHAFT. PROVIDE ACCESS HATCH.
10	MOUNT DETECTOR ON STRUCTURE ABOVE ACCESS HATCH.



NFPA-72 TYPICAL DEVICE MOUNTING HEIGHTS
SCALE: NONE

ABBREVIATIONS

AC - ABOVE CEILING
AFF - ABOVE FINISHED FLOOR
ADA - AMERICAN DISABILITIES ACT
AHJ - AUTHORITY HAVING JURISDICTION
AHU - AIR HANDLING UNIT (THIRD PARTY)
ASD - ASPIRATION SMOKE DETECTION
CD - CANDELA (EX. 15CD)
CIS - COMMON INTELLIGIBILITY SCALE
DH - DOOR HOLDER (THIRD PARTY UNO)
EF - EXHAUST FAN (THIRD PARTY)
ELEV - ELEVATOR (THIRD PARTY)
EOL - END OF LINE
EPF - ELEVATOR PRESSURIZATION FAN (THIRD PARTY)
FA - FIRE ALARM
FAA- FIRE ALARM ANNUNCIATOR
FACP - FIRE ALARM CONTROL PANEL
FACU - FIRE ALARM CONTROL UNIT
FATC - FIRE ALARM TERMINAL CABINET
FBO - FURNISHED BY OTHERS
FCU - FAN COIL UNIT (THIRD PARTY)
FFT - FIREFIGHTER'S TELEPHONE
FM - FACTORY MUTUAL
FSD - FIRE SMOKE DAMPER (THIRD PARTY)
HVAC - HEATING, VENTILATION, AND AIR CONDITIONING (THIRD PARTY)
LA - LOW AIR (THIRD PARTY)
N/A - NOT APPLICABLE
NAC - NOTIFICATION APPLIANCE CIRCUIT
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
NIC - NOT IN CONTRACT
NTS - NOT TO SCALE
PS - POWER SUPPLY
RTU - ROOF TOP UNIT (THIRD PARTY)
SLC - SIGNALING LINE CIRCUIT
SPF - STAIR PRESSURIZATION FAN (THIRD PARTY)
STI - SPEECH TRANSMISSION INDEX
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
VAV - VARIABLE AIR VOLUME (THIRD PARTY)
VFD - VARIABLE FREQUENCY DRIVE (THIRD PARTY)
W/ - WITH
W - WATT (EX. 1/2W)
WP - WEATHERPROOF
XP - EXPLOSION PROOF

DETAIL BUBBLE KEY
DETAIL NUMBER
X
\-
DETAIL LOCATION (- = SAME SHEET)

NOTIFICATION DEVICE CIRCUIT KEY
CIRCUIT NUMBER
POWER SUPPLY
SUFFIX
NX-X-X
XXcd
LOGICAL DEVICE NUMBER

DRAWING SHEET INDEX KEY
FIRE ALARM
PAGE/FLOOR/AREA
FA-X-XX
0 = COVER SHEET
1 = FLOOR PLANS
2 = RISER DIAGRAMS
3 = FIRE PANEL DETAILS
4 = DEVICE DETAILS
5 = CALCULATIONS

SHEET INDEX

Read Permit Conditions prior to calling for inspection.

City of Puyallup Fire REVIEWED FOR COMPLIANCE
DDrake
07/29/2024
7:46:20 PM

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

ADT Commercial
600 Oakesdale Ave. SW
Suite 100
Renton, WA 98057

adt.com/commercial

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES
N.I.C.E.T.
149793
Level III
FIRE ALARM SYSTEMS
FIRE PROTECTION ENGINEERING TECHNOLOGY
Daniel Kelso
Expiration: 2025-03-01

REVISIONS

NO.	DATE	REVISION
–	07/2024 BY:DK	REDESIGN FOR RESUBMISSION
1	- BY:___	-
2	- BY:___	-
3	- BY:___	-
4	- BY:___	-

CODES ADOPTED BY LOCAL AHJ
2019 NFPA 72 NATIONAL FIRE ALARM CODE
2018 INTERNATIONAL BUILDING CODE
2017 NFPA 70 NATIONAL ELECTRICAL CODE

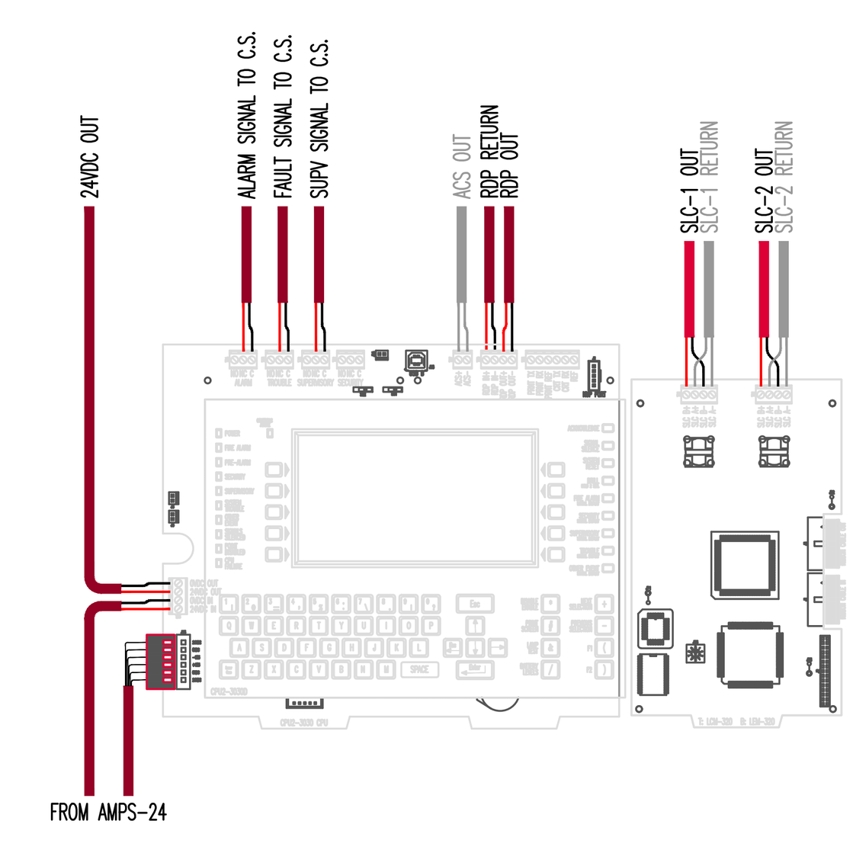
PIERCE COLLEGE - S.T.E.M. BLDG.
1601 39TH AVE SE
PUYALLUP, WA 98374

FIRE ALARM SYSTEM

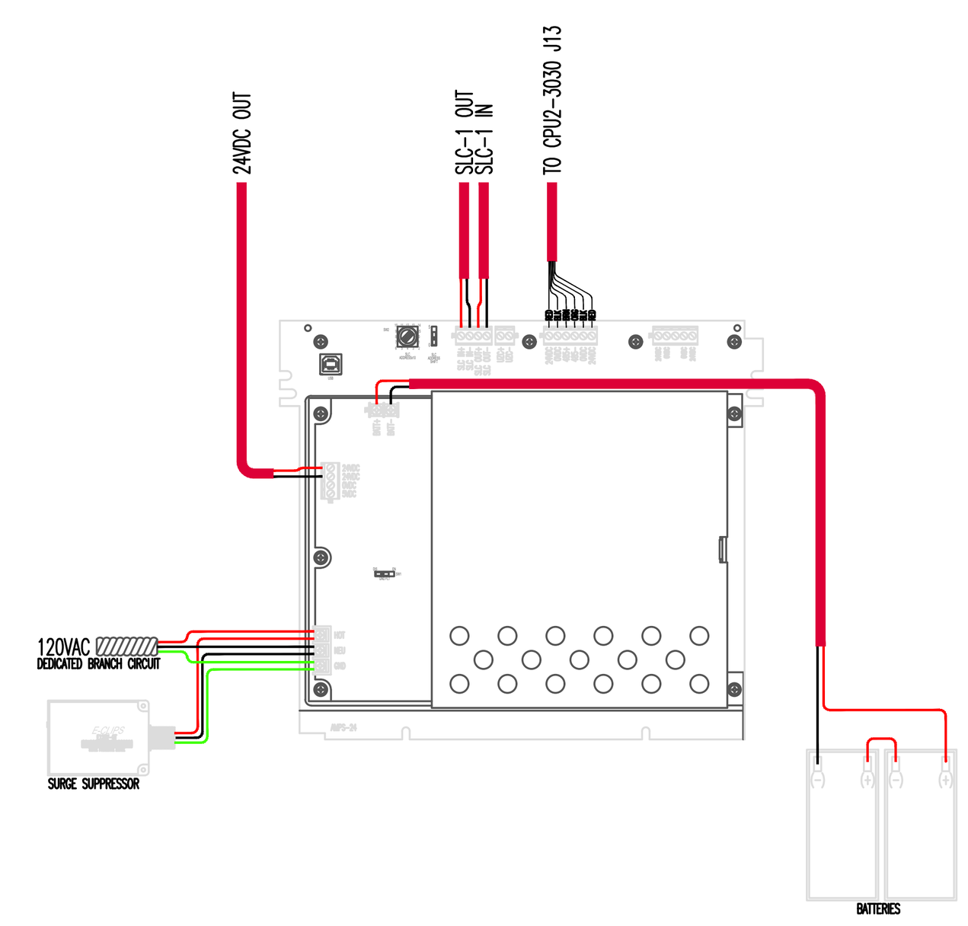
BUILDING INFORMATION
GROUPS: B, A-3, S-1
TYPE II-B, FULLY SPRINKLERED
TOTAL BLDG AREA: 53,997 SQFT.

PROJECT MANAGER:
dougmorgan@everonsolutions.com

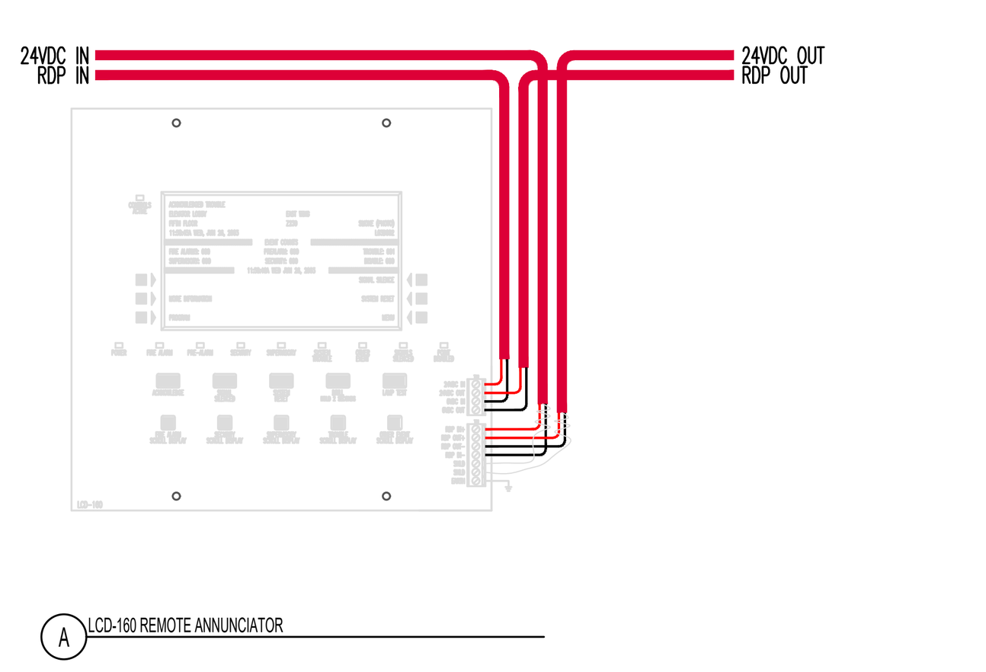
PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE: COVER SHEET
SHEET: FA-0-1



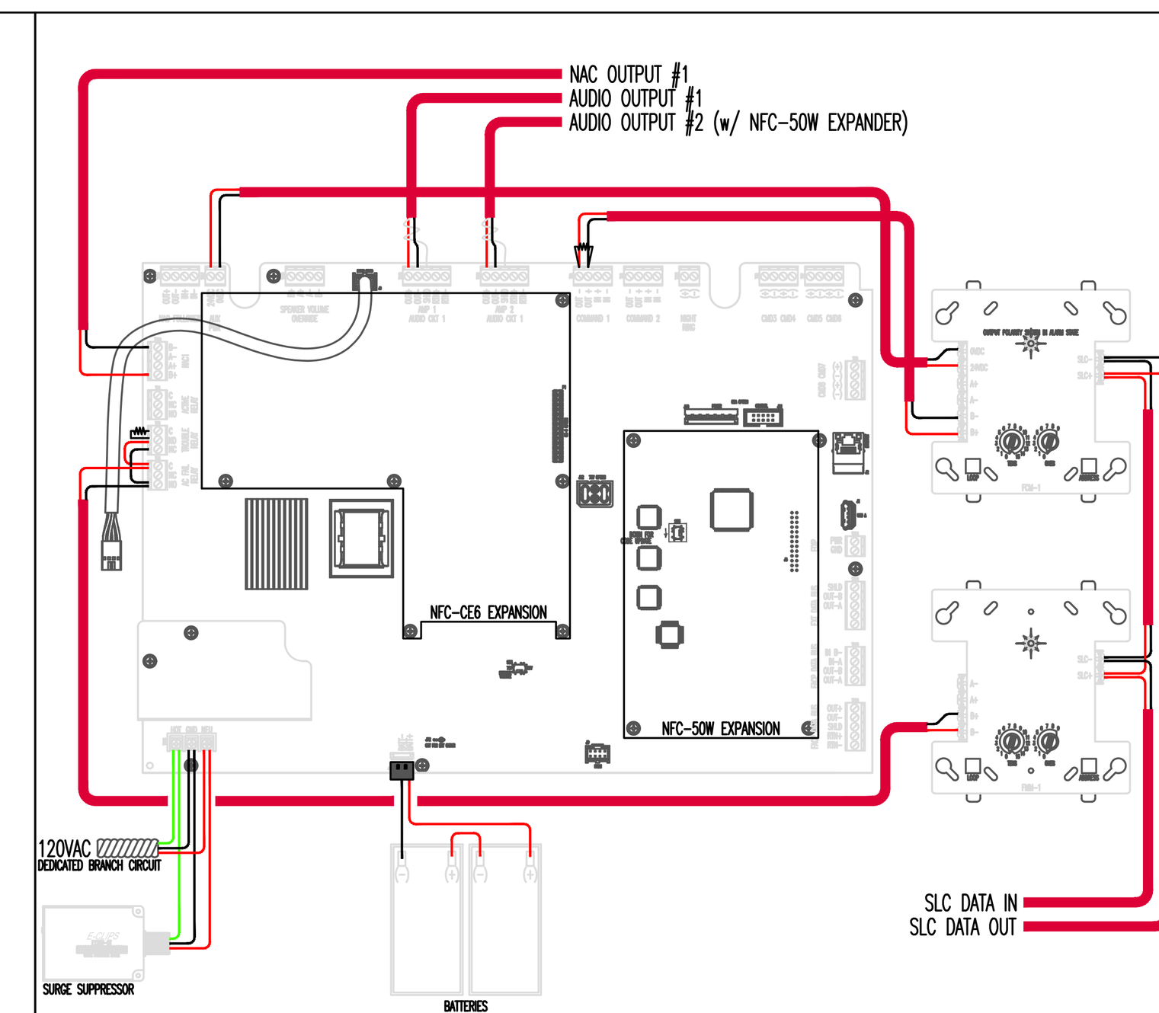
1 NFS2-3030 INTELLIGENT FIRE ALARM PANEL CPU w/ LCM-320 & LEM-320 LOOP CONTROL MODULES
SCALE: NONE



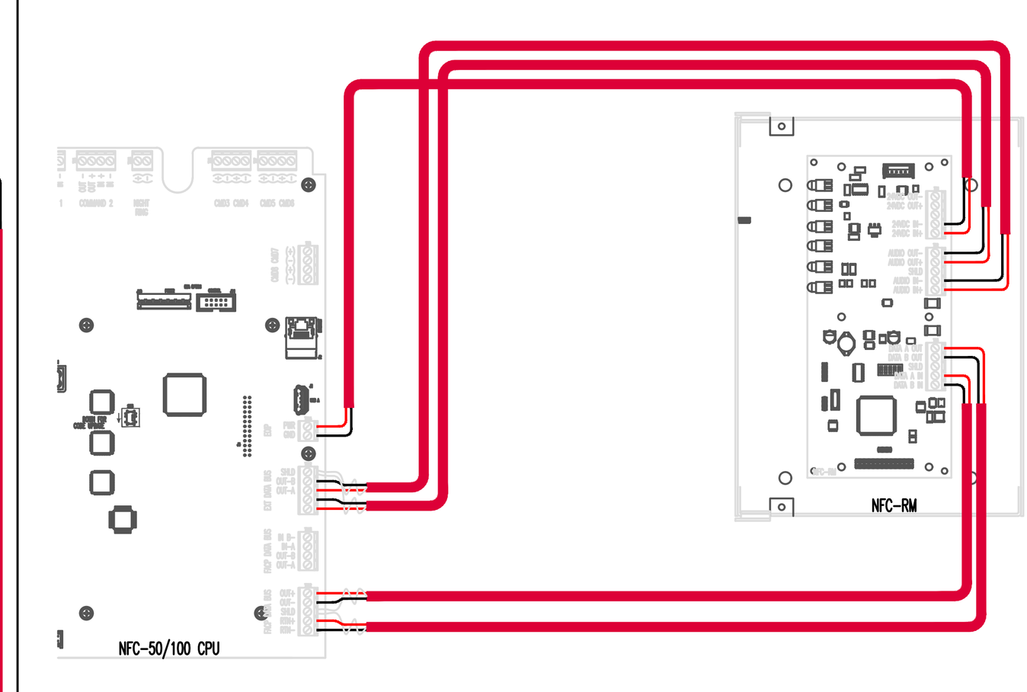
2 AMPS-24 MAIN POWER SUPPLY for NFS2-3030 CPU
SCALE: NONE



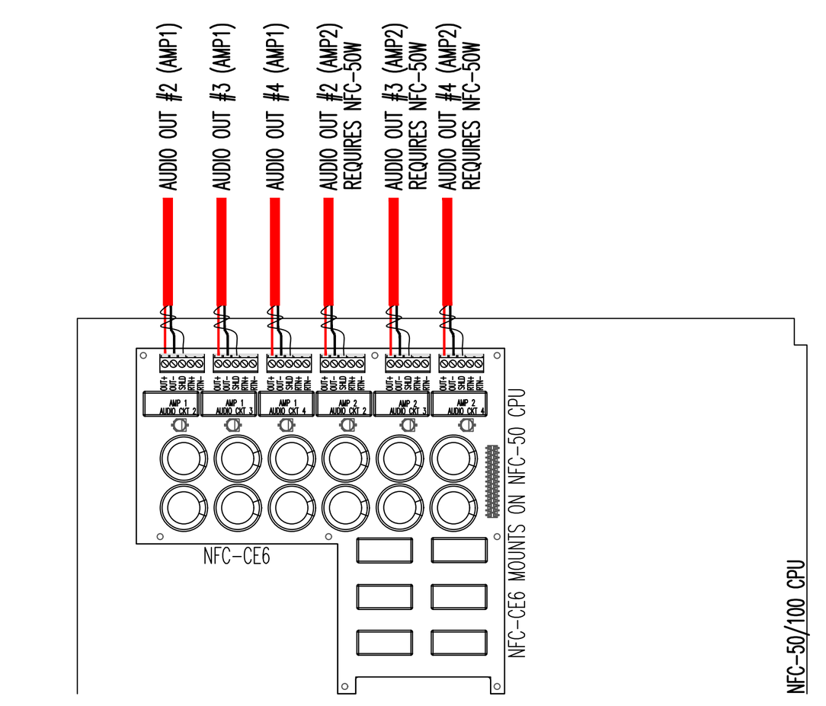
3 LCD-160 REMOTE ANNUNCIATOR
SCALE: NONE



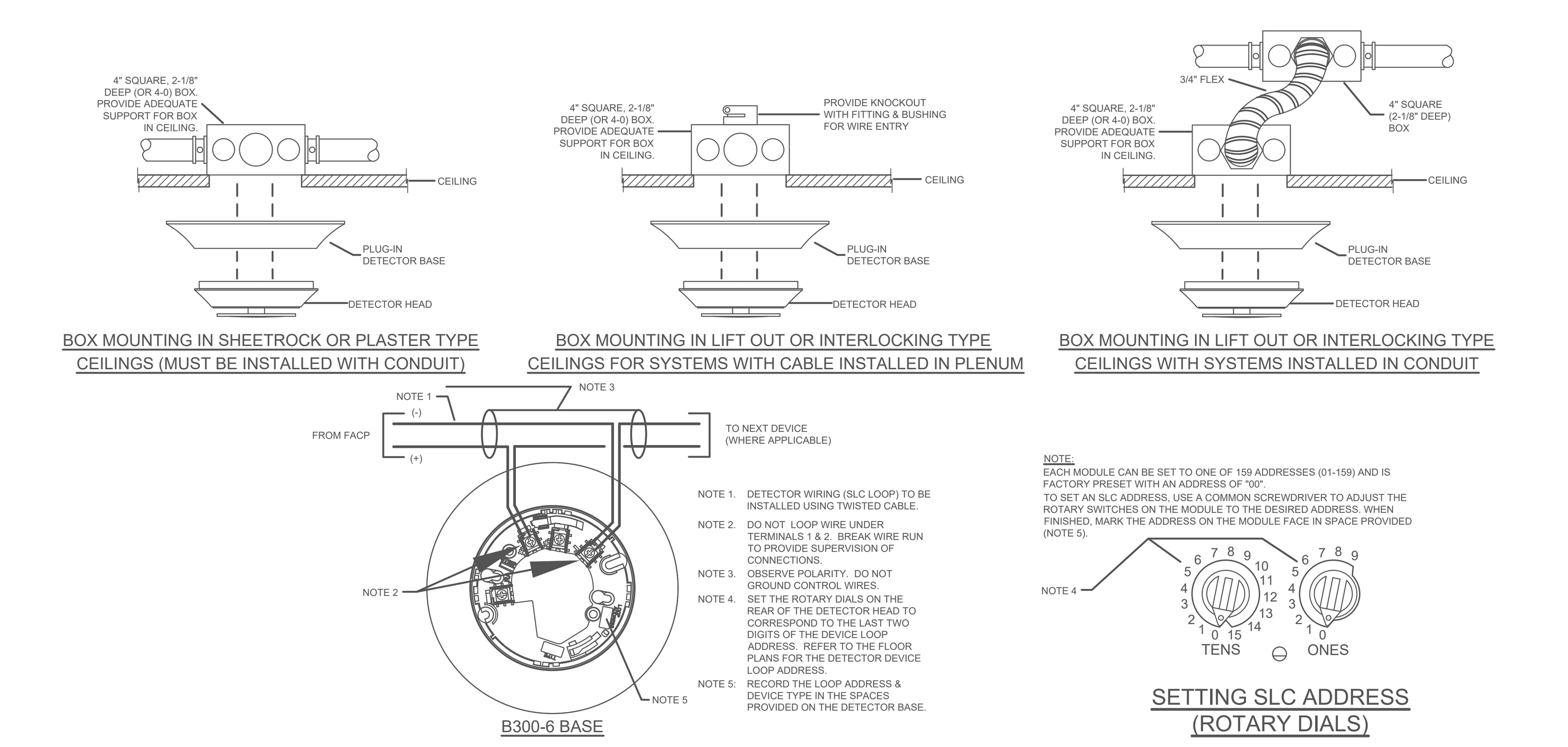
4 NFC-50/100 50W VOICE COMMAND UNIT w/ ADDITIONAL NFC-50W EXPANSION AMPLIFIER
SCALE: NONE



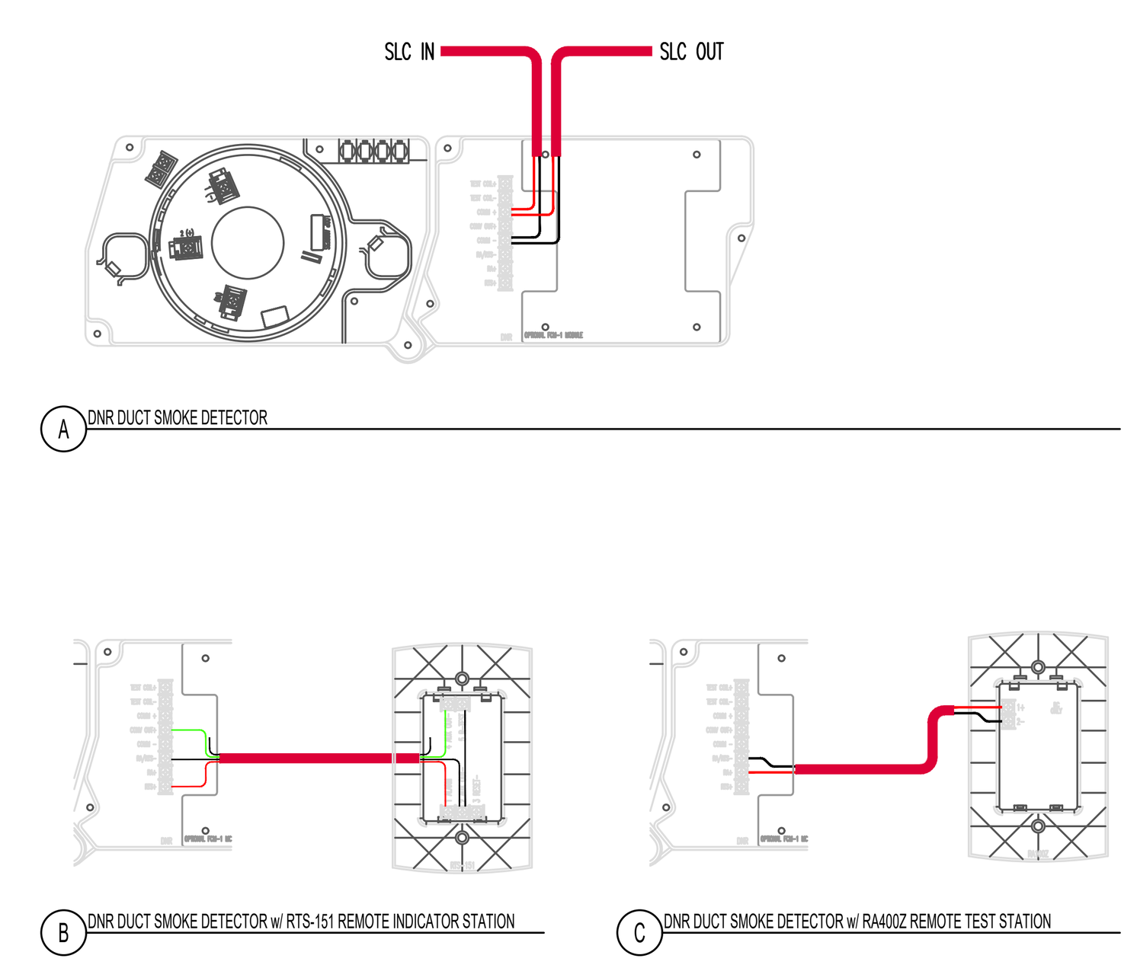
5 NFC-RM REMOTE MICROPHONE WIRING CONNECTION
SCALE: NONE



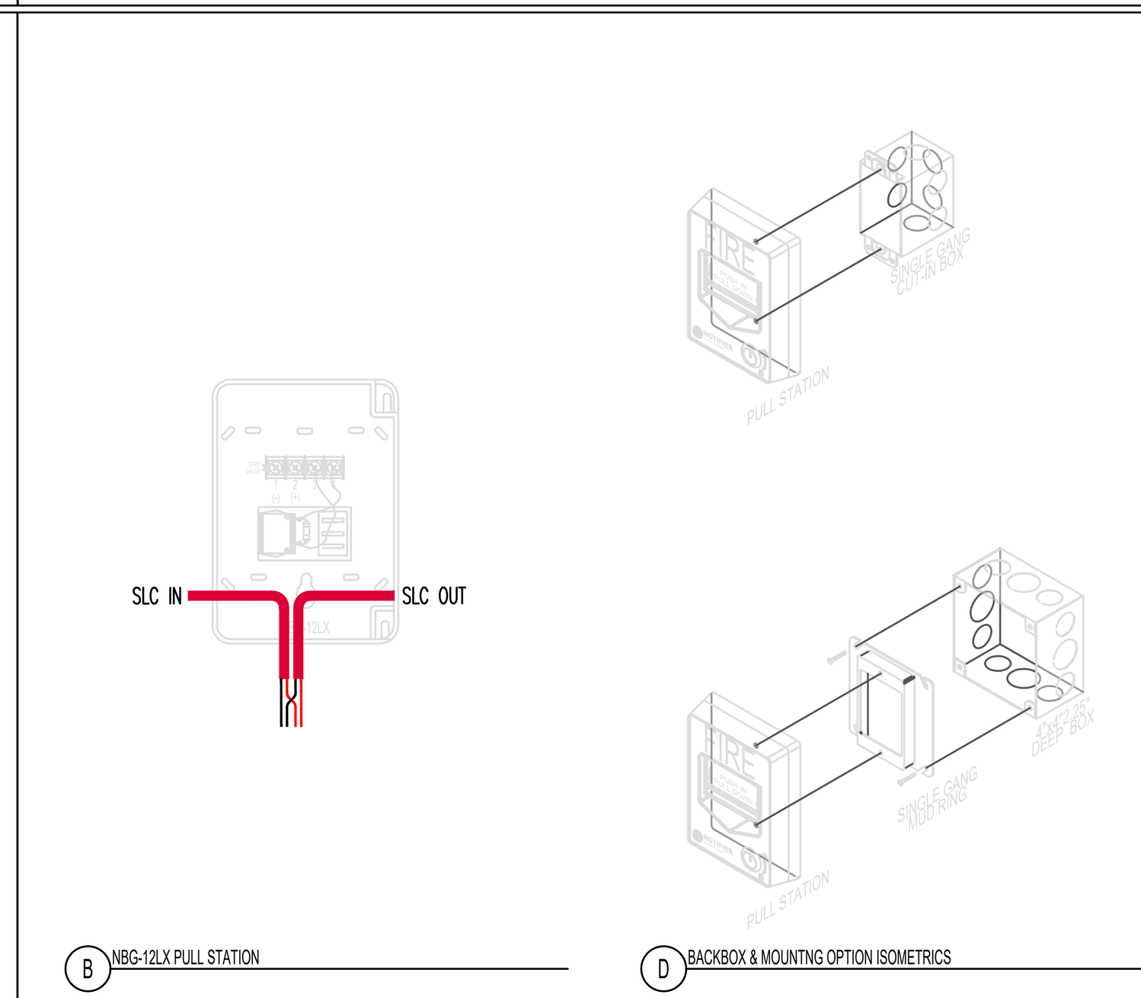
NOTIFIER
NFC-CE6 6-CIRCUIT EXPANSION BOARD: MOUNTS ON NFC-50 AMPLIFIER


4" SQUARE, 2-1/8" DEEP (OR 4-0) BOX. PROVIDE ADEQUATE SUPPORT FOR BOX IN CEILING.
CEILING
PLUG-IN DETECTOR BASE
DETECTOR HEAD
BOX MOUNTING IN SHEETROCK OR PLASTER TYPE CEILINGS (MUST BE INSTALLED WITH CONDUIT)
PROVIDE KNOCKOUT WITH FITTING & BUSHING FOR WIRE ENTRY
BOX MOUNTING IN LIFT OUT OR INTERLOCKING TYPE CEILINGS FOR SYSTEMS WITH CABLE INSTALLED IN PLENUM
3/4" FLEX
4" SQUARE (2-1/8" DEEP) BOX
BOX MOUNTING IN LIFT OUT OR INTERLOCKING TYPE CEILINGS WITH SYSTEMS INSTALLED IN CONDUIT
NOTE 1
NOTE 3
FROM FACP
TO NEXT DEVICE (WHERE APPLICABLE)
NOTE 2
NOTE 5
B300-6 BASE
NOTE 1. DETECTOR WIRING (SLC LOOP) TO BE INSTALLED USING TWISTED CABLE.
NOTE 2. DO NOT LOOP WIRE UNDER TERMINALS 1 & 2. BREAK WIRE RUN TO PROVIDE SUPERVISION OF CONNECTIONS.
NOTE 3. OBSERVE POLARITY. DO NOT GROUND CONTROL WIRES.
NOTE 4. SET THE ROTARY DIALS ON THE REAR OF THE DETECTOR HEAD TO CORRESPOND TO THE LAST TWO DIGITS OF THE DEVICE LOOP ADDRESS. REFER TO THE FLOOR PLANS FOR THE DETECTOR DEVICE LOOP ADDRESS.
NOTE 5: RECORD THE LOOP ADDRESS & DEVICE TYPE IN THE SPACES PROVIDED ON THE DETECTOR BASE.
NOTE:
EACH MODULE CAN BE SET TO ONE OF 159 ADDRESSES (01-159) AND IS FACTORY PRESET WITH AN ADDRESS OF "00".
TO SET AN SLC ADDRESS, USE A COMMON SCREWDRIVER TO ADJUST THE ROTARY SWITCHES ON THE MODULE TO THE DESIRED ADDRESS. WHEN FINISHED, MARK THE ADDRESS ON THE MODULE FACE IN SPACE PROVIDED (NOTE 5).
NOTE 4
TENS
ONES
SETTING SLC ADDRESS (ROTARY DIALS)

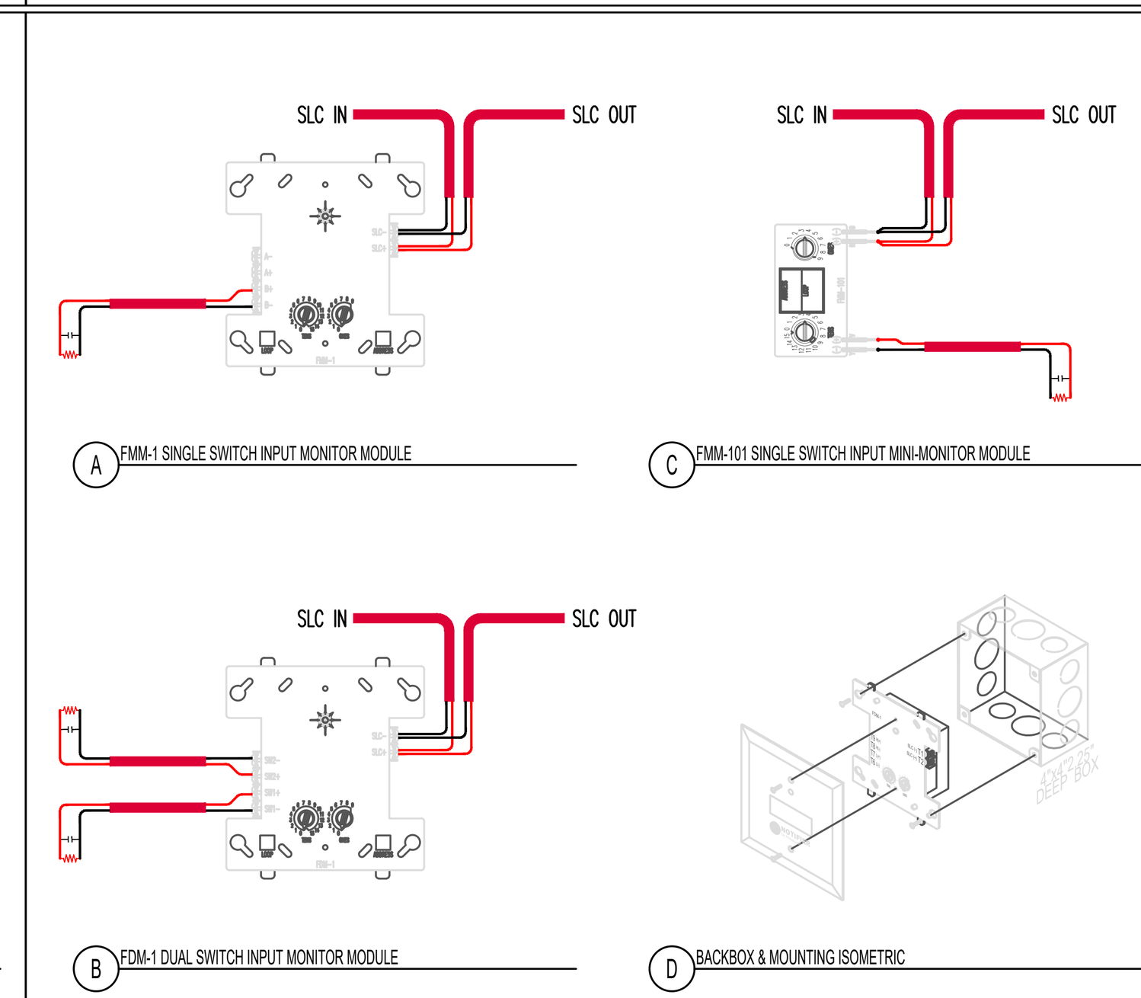
6 DETECTOR BASE & BACKBOX MOUNTING ISOMETRICS
SCALE: NONE



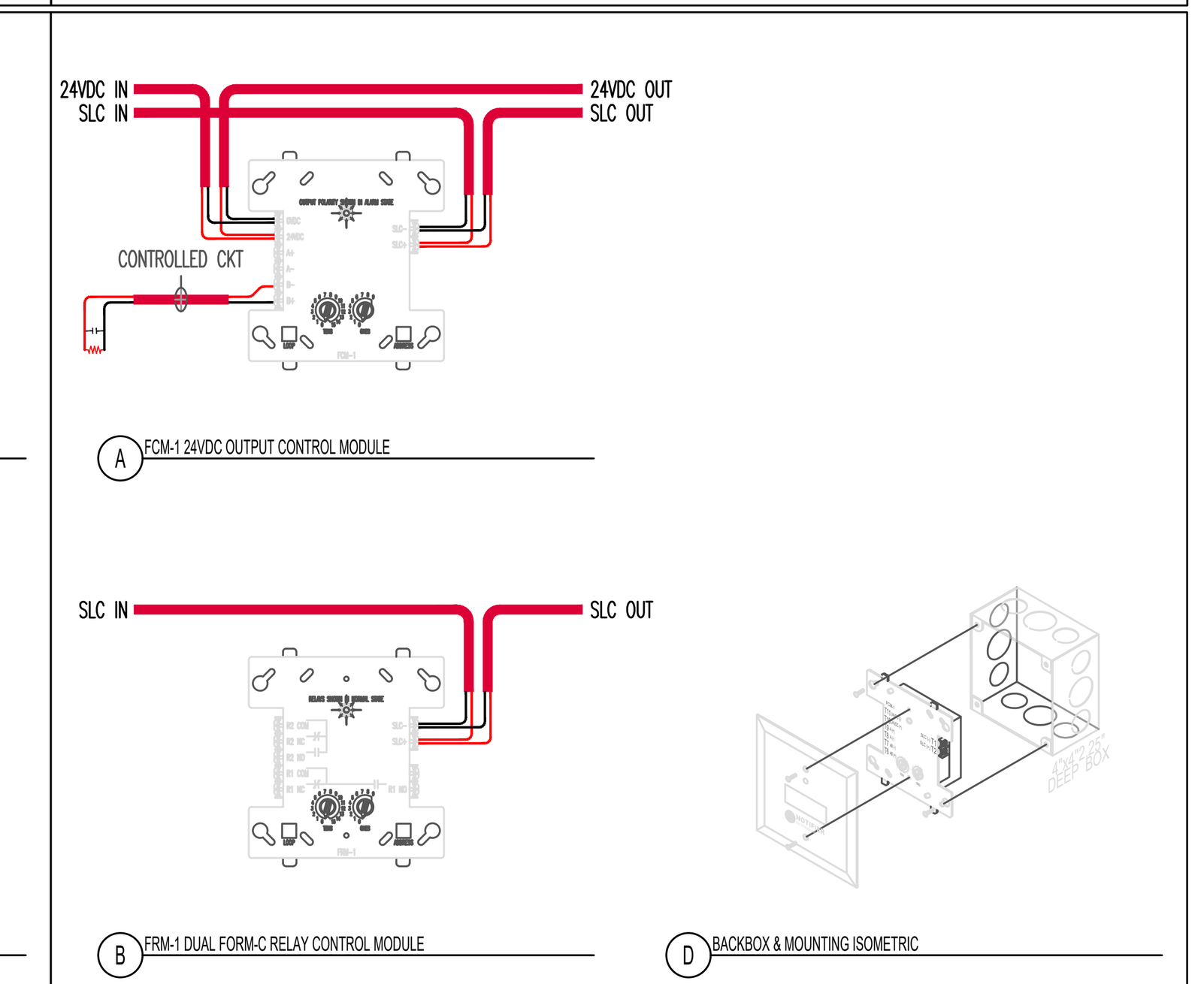
7 DNR DUCT SMOKE DETECTOR w/ the RTS-151 & RA100Z REMOTE TEST SWITCH ACCESSORIES
SCALE: NONE



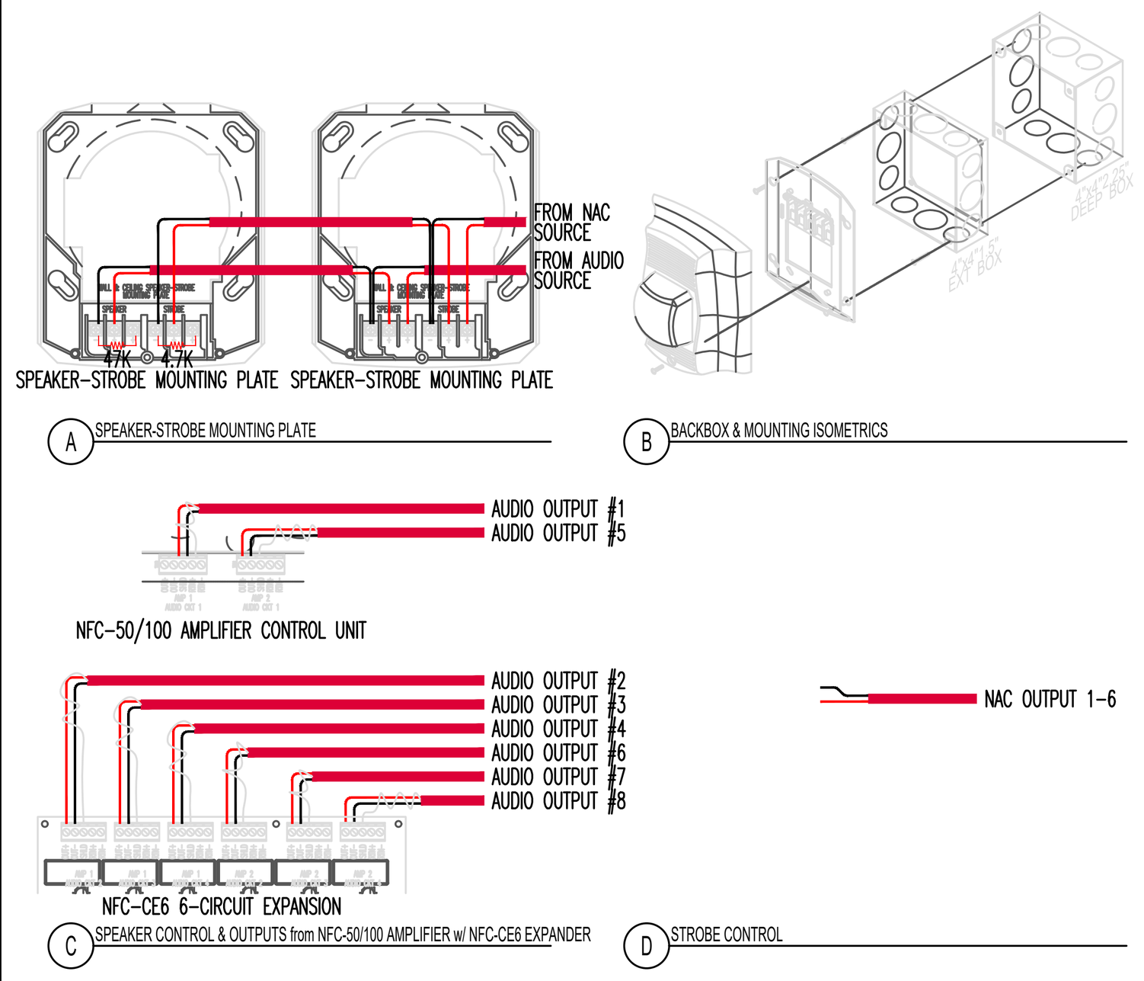
8 NBG-12LX PULL STATION W/ BACKBOX & MOUNTING ISOMETRICS
SCALE: NONE



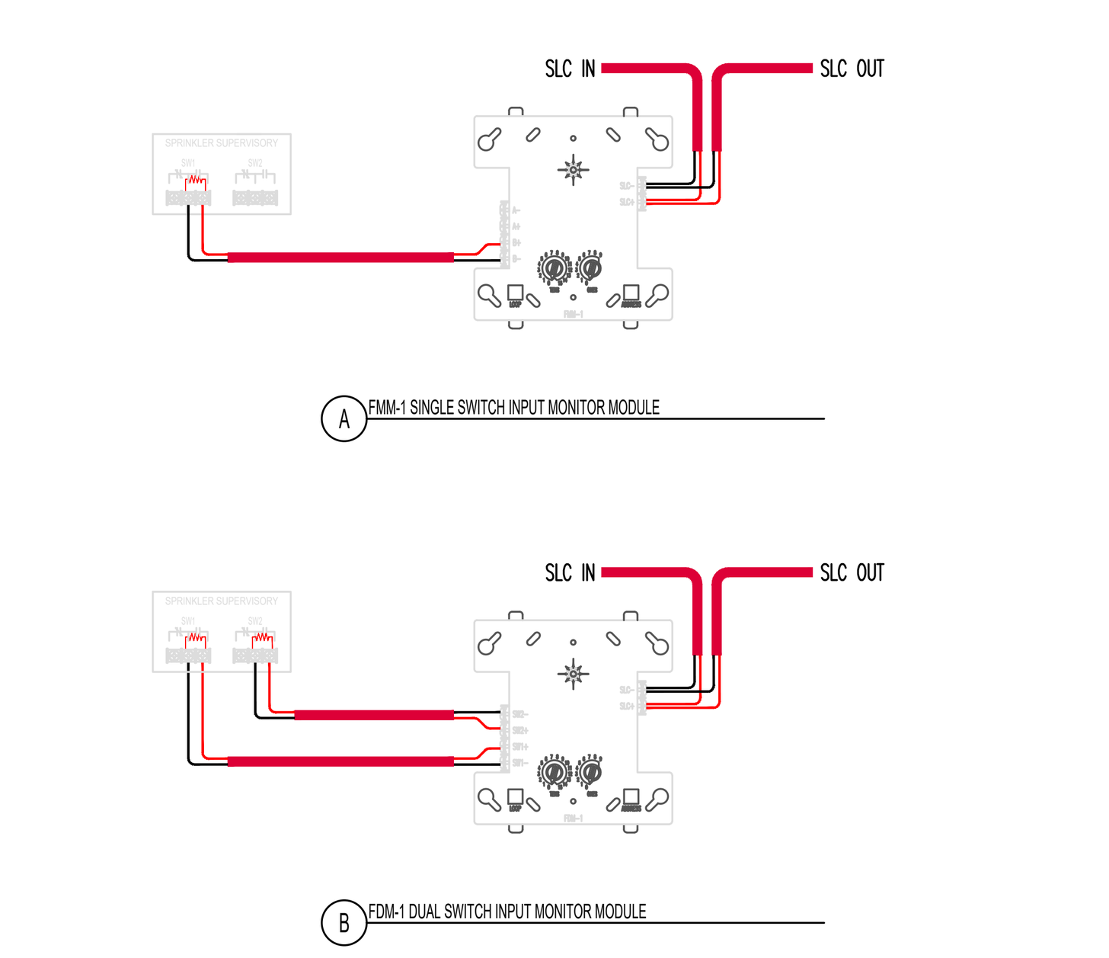
9 FMM-1, FMM-101 & FDM-1 MONITOR MODULES w/ BACKBOX & MOUNTING ISOMETRICS
SCALE: NONE



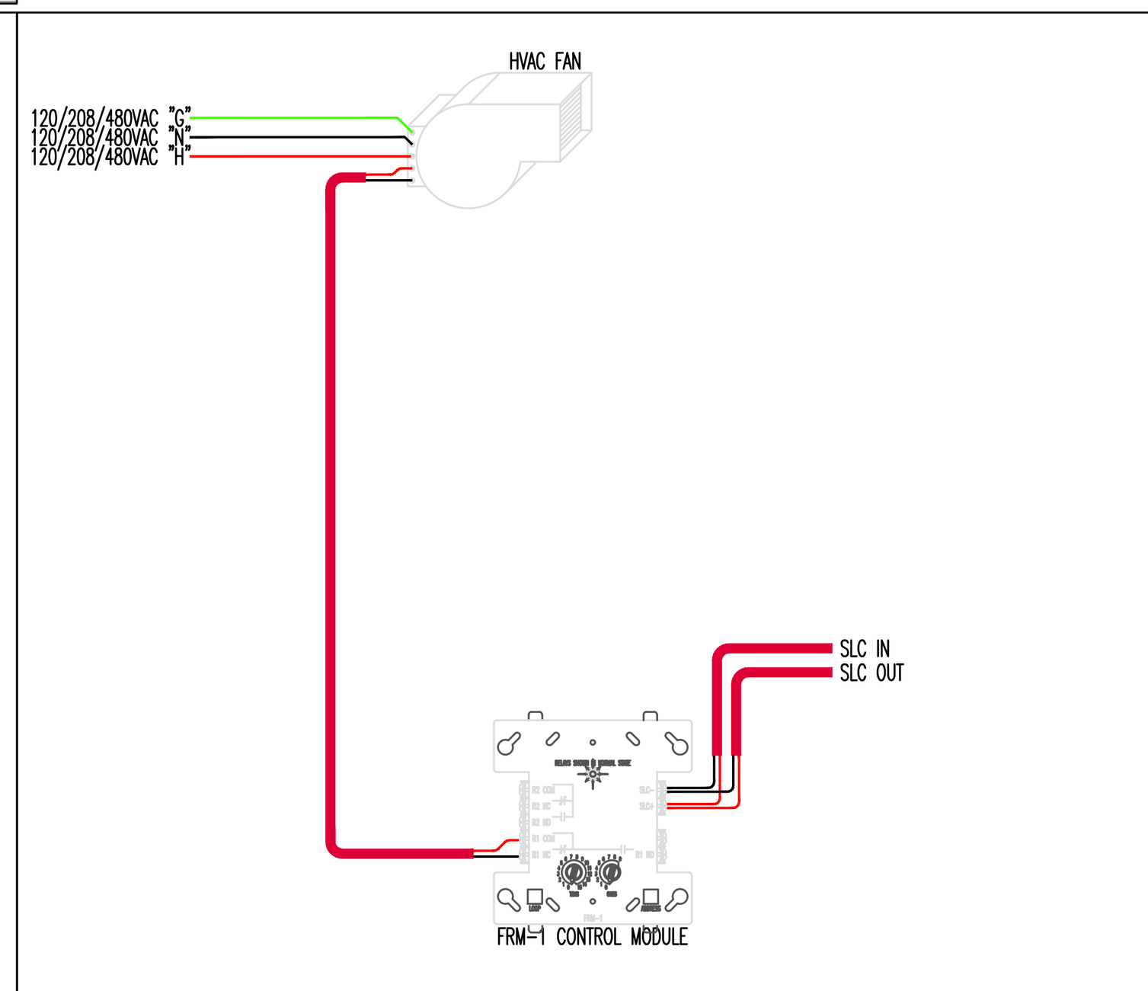
10 FCM-1 24VDC OUTPUT CONTROL & FRM-1 RELAY MODULES w/ BACKBOX & MOUNTING ISOMETRIC
SCALE: NONE


FROM NAC SOURCE
FROM AUDIO SOURCE
47K
4.7K
SPEAKER-STROBE MOUNTING PLATE
SPEAKER-STROBE MOUNTING PLATE
A SPEAKER-STROBE MOUNTING PLATE
B BACKBOX & MOUNTING ISOMETRICS
AUDIO OUTPUT #1
AUDIO OUTPUT #5
NFC-50/100 AMPLIFIER CONTROL UNIT
AUDIO OUTPUT #2
AUDIO OUTPUT #3
AUDIO OUTPUT #4
AUDIO OUTPUT #6
AUDIO OUTPUT #7
AUDIO OUTPUT #8
NFC-CE6 6-CIRCUIT EXPANSION
NAC OUTPUT 1-6
C SPEAKER CONTROL & OUTPUTS from NFC-50/100 AMPLIFIER w/ NFC-CE6 EXPANDER
D STROBE CONTROL

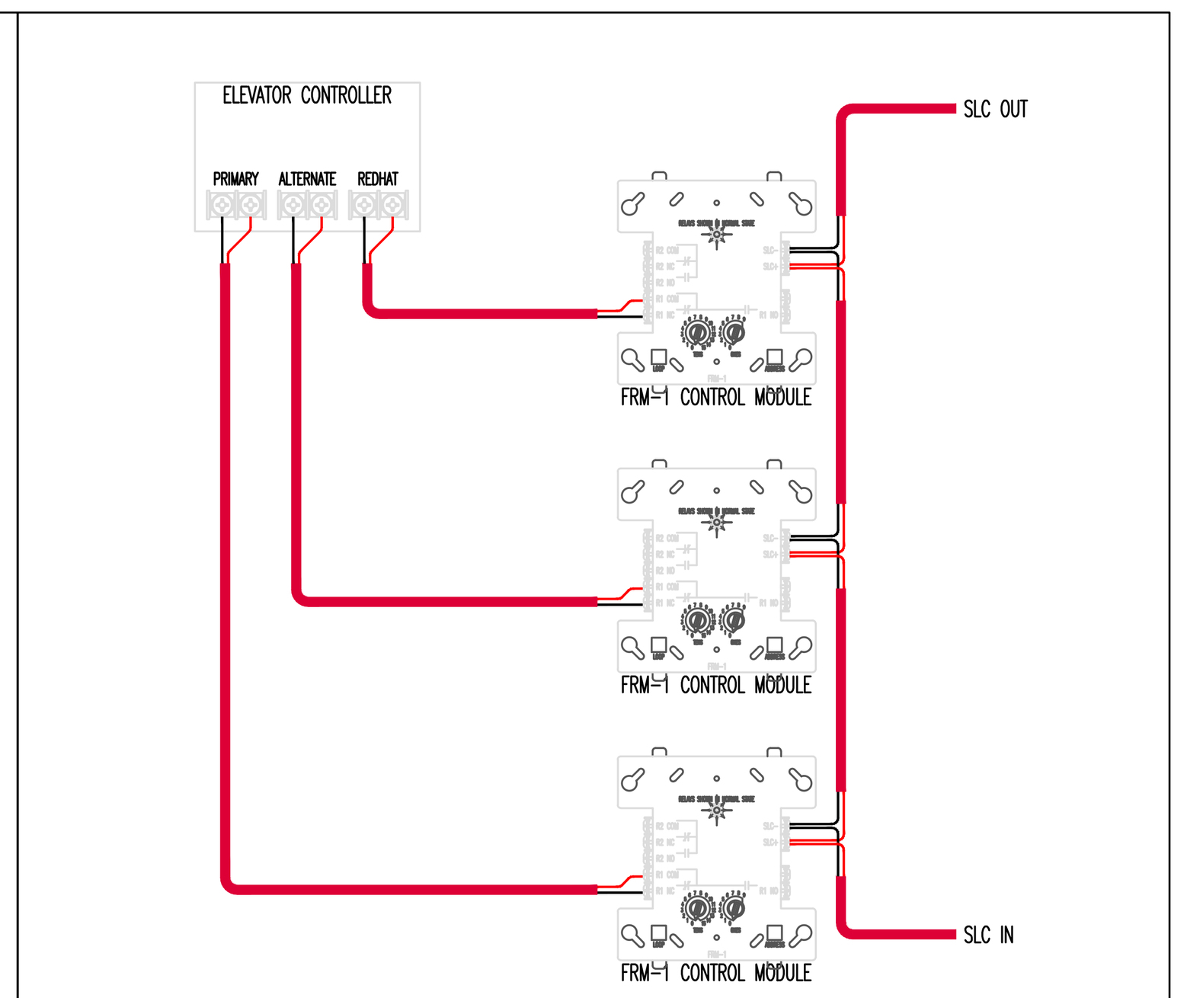
11 COMBINATION SPEAKER-STROBE via NFC-50/100 AMPLIFIER & NAC P.S.
SCALE: NONE



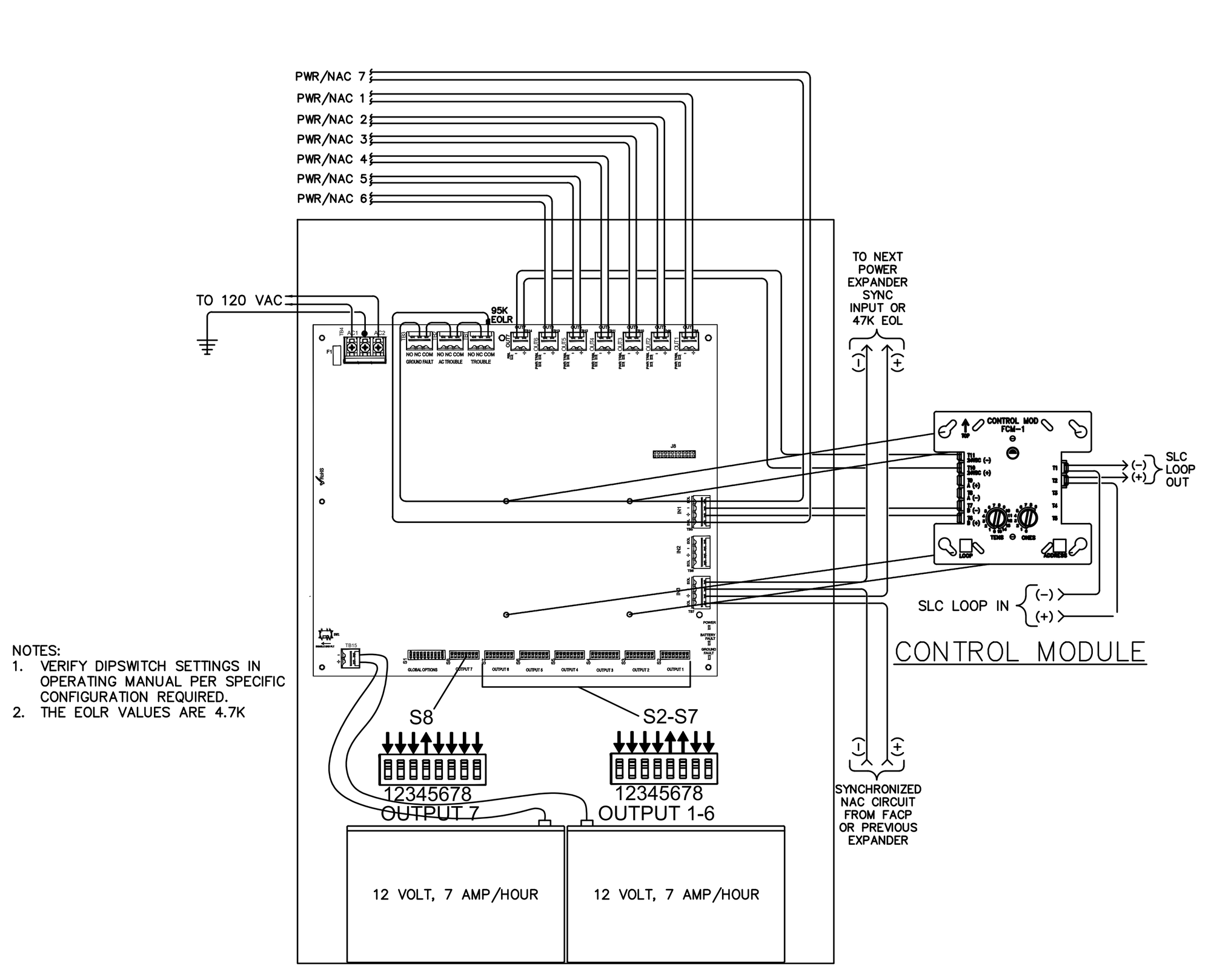
12 SPRINKLER SUPERVISORY MONITORING via a FMM-1 or FDM-1 MONITOR MODULES
SCALE: NONE



13 HVAC FAN SHUTDOWN CONTROL INTERFACE via ON-BOARD FIRE SERVICE CONTACT
SCALE: NONE



14 ELEVATOR RECALL INTERFACE: PRIMARY, ALTERNATE & REDHAT INDICATOR
SCALE: NONE


PWR/NAC 7
PWR/NAC 1
PWR/NAC 2
PWR/NAC 3
PWR/NAC 4
PWR/NAC 5
PWR/NAC 6
TO 120 VAC
95K EOLR
TO NEXT POWER EXPANDER SYNC INPUT OR 47K EOL
SLC LOOP OUT
SLC LOOP IN
CONTROL MODULE
S8
S2-S7
12345678
OUTPUT 7
12345678
OUTPUT 1-6
SYNCHRONIZED NAC CIRCUIT FROM FACP OR PREVIOUS EXPANDER
12 VOLT, 7 AMP/HOUR
12 VOLT, 7 AMP/HOUR
NOTES:
1. VERIFY DIPSWITCH SETTINGS IN OPERATING MANUAL PER SPECIFIC CONFIGURATION REQUIRED.
2. THE EOLR VALUES ARE 4.7K

15 HPF-PS10 NAC Power Supply
SCALE: NONE

SEQUENCE OF EVENTS

	ACTIVATE AUDIBLE-VISIBLE ALARM SIGNAL AT FACP	ACTIVATE AUDIBLE-VISIBLE SUPERVISORY SIGNAL AT FACP	ACTIVATE AUDIBLE-VISIBLE TROUBLE SIGNAL AT FACP	DISPLAY DEVICE INFORMATION ON FACP/REMOTE ANNUNCIATOR(S)		ACTIVATE OUTSIDE BELL (NON-SILENCABLE)	REPORT APPROPRIATE SIGNAL TO CENTRAL STATION	SILENCE PANEL AND BUILDING AUDIBLES EXCEPT WATERFLOW	RECALL ELEVATOR CAR TO DESIGNATED LEVEL	RECALL ELEVATOR CAR TO ALTERNATE LEVEL	ACTIVATE FLASHING HAT IN ELEVATOR	SHUNT THE ELEVATOR	UNLOCK EXITS	RELEASE MAGNETICALLY HELD DOORS	CLOSE FIRE/SMOKE DAMPERS	SHUTDOWN RELATED HVAC UNIT/S		CONTROL PANEL RETURNED TO NORMAL
ALARM SYSTEM INPUTS																		
SMOKE DETECTOR	√			√			√	√					√	√	√	√		
MANUAL PULL STATION	√			√			√	√					√	√	√	√		
SPRINKLER WATERFLOW	√			√		√	√						√	√	√	√		
HEAT DETECTOR	√			√			√	√					√	√	√	√		
FUME HOOD	√			√			√	√					√	√	√	√		
C.O. DETECTOR	√			√			√	√					√	√	√	√		
SUPERVISORY SYSTEM INPUTS																		
DUCT SMOKE DETECTOR		√		√			√	√								√		
SPRINKLER TAMPER SWITCH		√		√			√	√										
TROUBLE SYSTEM INPUTS																		
LOSS OF AC POWER			√	√			√	√						√				
CHARGER FAILURE			√	√			√	√										
LOW BATTERY			√	√			√	√										
OPEN CIRCUIT			√	√			√	√										
GROUND FAULT			√	√			√	√										
FACP FUNCTIONS																		
ACTIVATION OF SYSTEM SILENCE			√	√				√										
RESTORATION OF SYSTEM TO NORMAL				√			√											√
ELEVATOR RECALL																		
1ST FLOOR ELEVATOR LOBBY SMOKE	√			√			√	√		√			√	√				
2ND & UP ELEVATOR LOBBY SMOKE	√			√			√	√	√				√	√				
ELEVATOR SHAFT OR MACH. ROOM SMOKE	√			√			√	√	√		√		√	√				
MACHINE ROOM & TOP OF SHAFT HEAT	√			√			√	√			√	√	√	√				
BOTTOM OF SHAFT HEAT	√			√			√	√		√	√	√	√	√				

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Level III
FIRE ALARM SYSTEMS
FIRE PROTECTION ENGINEERING TECHNOLOGY
Daniel Kelso
Expiration: 2025-03-01

REVISIONS

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CODES ADOPTED BY LOCAL AHJ
2019 NFPA 72 NATIONAL FIRE ALARM CODE
2018 INTERNATIONAL BUILDING CODE
2017 NFPA 70 NATIONAL ELECTRICAL CODE

PIERCE COLLEGE -
S.T.E.M. BLDG.
1601 39TH AVE SE
PUYALLUP, WA 98374

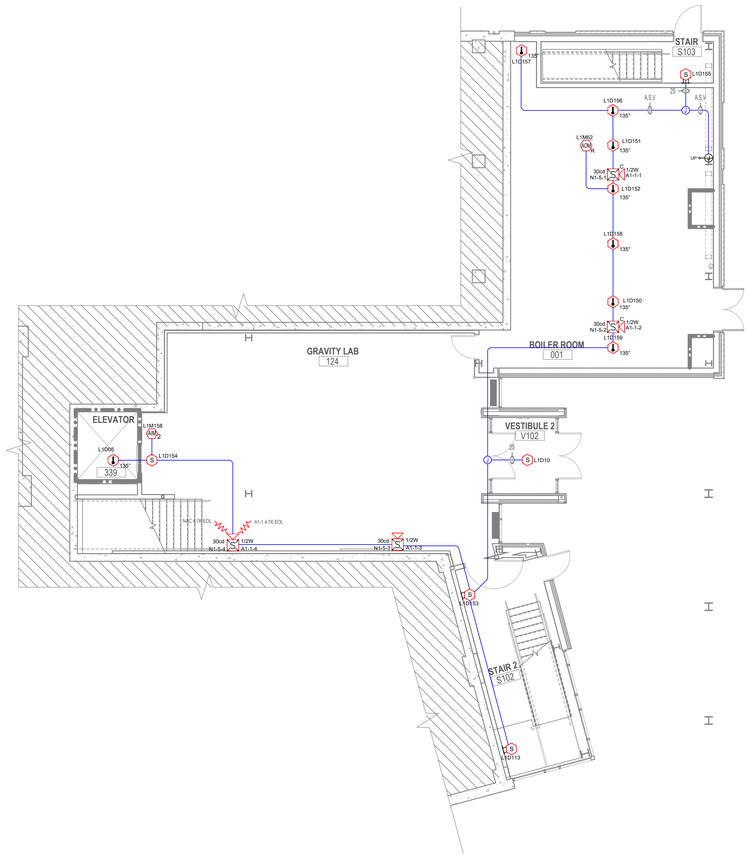
FIRE ALARM SYSTEM

BUILDING INFORMATION
GROUPS: B, A-3, S-1
TYPE II-B, FULLY SPRINKLERED
TOTAL BLDG AREA: 53,997 SQFT.

PROJECT MANAGER:
dougmorgan@everonsolutions.com

PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE:
PROJECT NOTES

SHEET:
FA-0-2



SCALE: 1/8" = 1'

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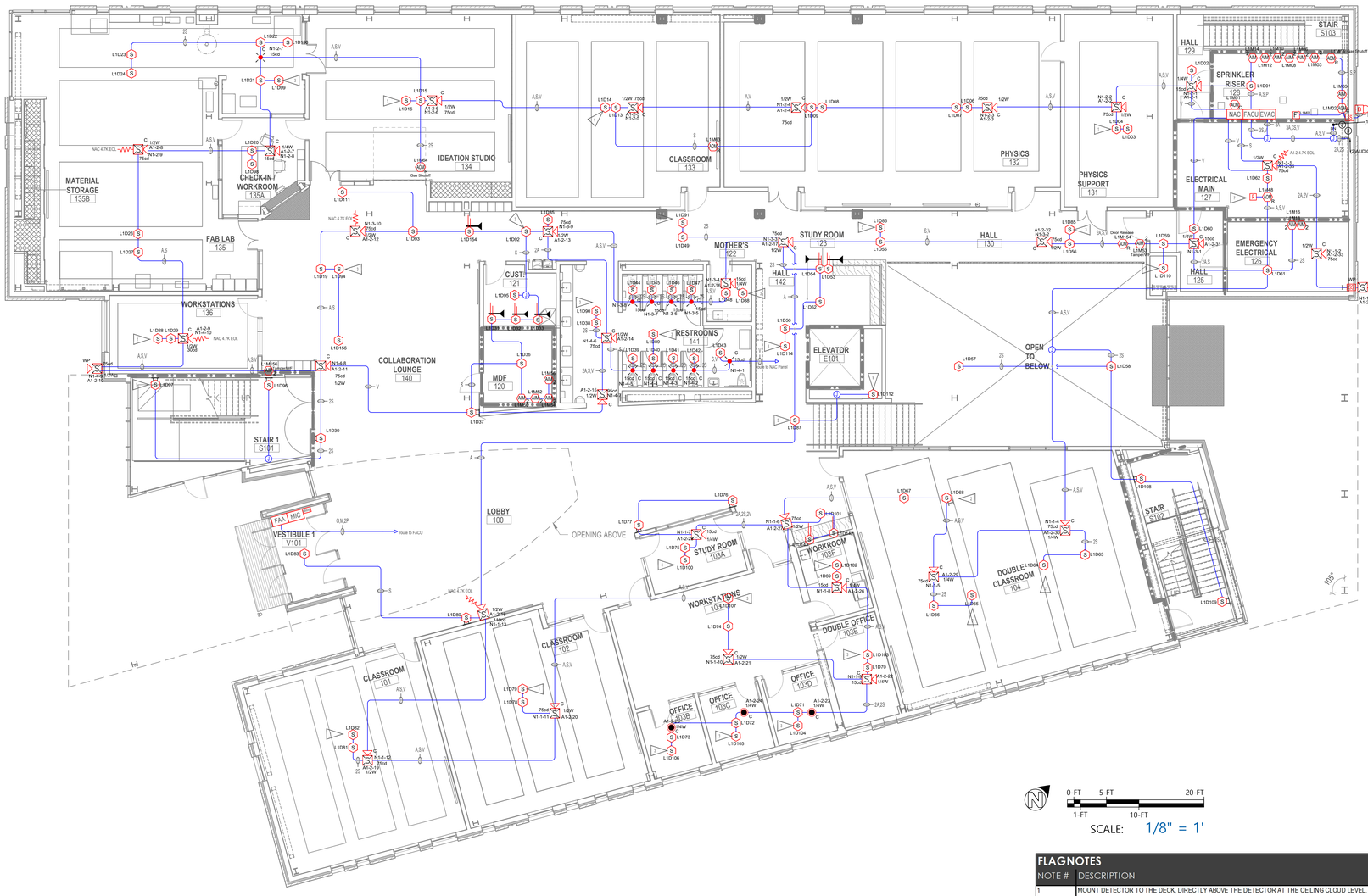
PROJECT MANAGER:
dougmorgan@everonsolutions.com

PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE:
0 FLOOR PLAN

SHEET: FA-1-0



SCALE: 1/8" = 1'

FLAGNOTES

NOTE #	DESCRIPTION
1	MOUNT DETECTOR TO THE DECK, DIRECTLY ABOVE THE DETECTOR AT THE CEILING CLOUD LEVEL.
3	MOUNT DETECTOR TO THE DECK OR WALL-MOUNT TO THE STRUCTURE (TOP OF THE DETECTOR HEAD MAXIMUM OF 12") FROM THE DECK.
4	WALL-MOUNT DETECTOR IN THE SKYLIGHT.
5	MOUNT DETECTOR UNDER STAIR LANDING.
6	WALL-MOUNT DETECTOR TO THE STRUCTURE (TOP OF THE DETECTOR HEAD MAXIMUM OF 12") FROM THE DECK, ABOVE CEILING BAFFLES.
7	ROUTE 120VAC SWITCH LEG OF DAMPER CIRCUIT FOR DAMPER SHUTDOWN (ON ALARM) THROUGH RIB01BDC. LOCATE WITHIN 3' OF ELECTRICAL PANEL PROVIDING 120VAC FOR DAMPER CIRCUIT.
8	ROUTE 120VAC SHUNT-TRIP POWER THROUGH RIB01BDC CONTACTS FOR ELEVATOR POWER SHUTDOWN & DISCONNECT.
9	MOUNT DETECTOR ON STRUCTURE IN VERTICAL SHAFT. PROVIDE ACCESS HATCH.
10	MOUNT DETECTOR ON STRUCTURE ABOVE ACCESS HATCH.

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PUYALLUP, WA 98374

FIRE ALARM SYSTEM

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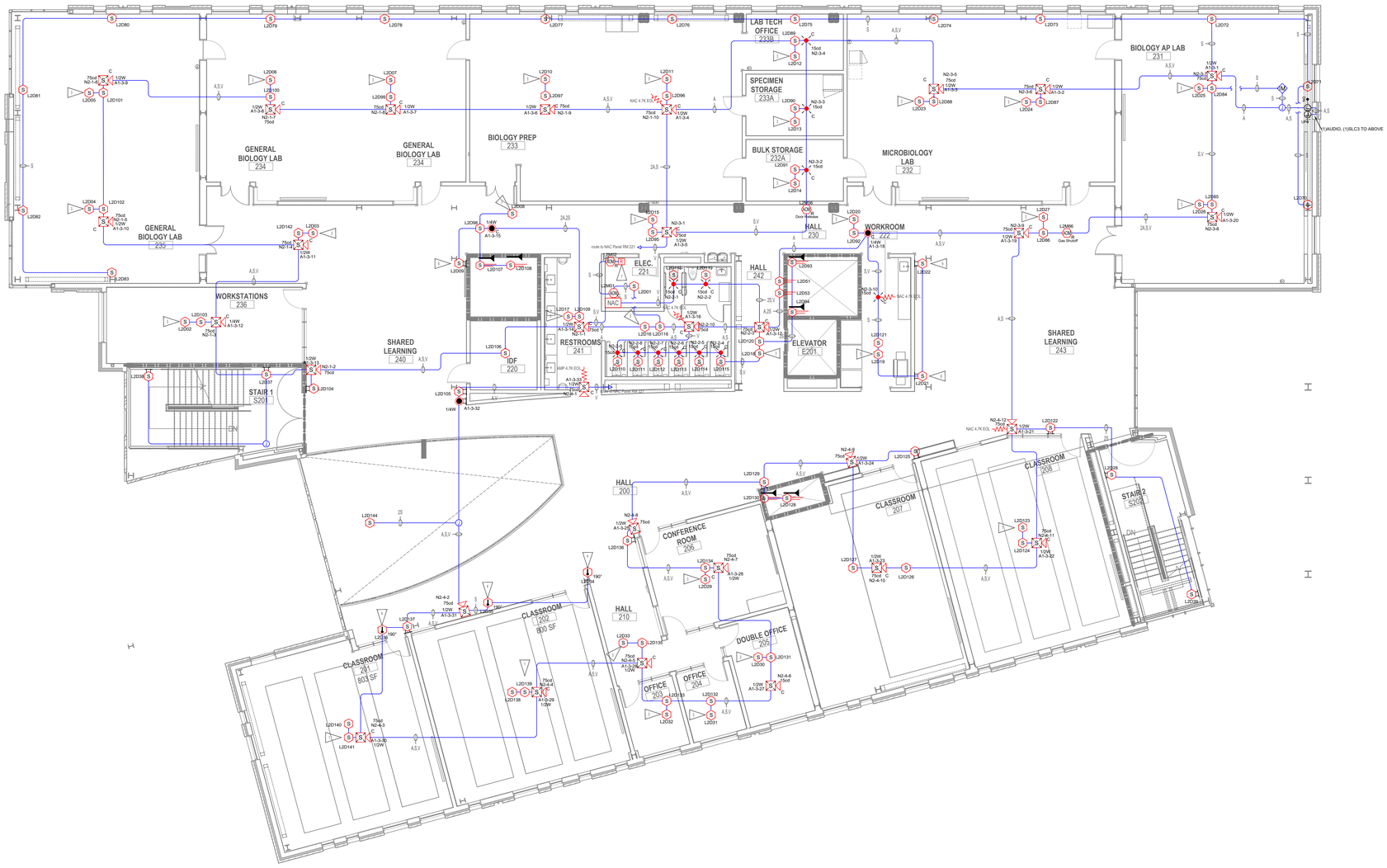
TOTAL BLDG AREA: 53,997 SQFT.

PROJECT MANAGER:
dougmorgan@everonsolutions.com

PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE: 1ST FLOOR PLAN

SHEET: FA-1-1



0-FT 5-FT 20-FT
1-FT 10-FT

SCALE: 1/8" = 1'

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FIRE ALARM SYSTEM

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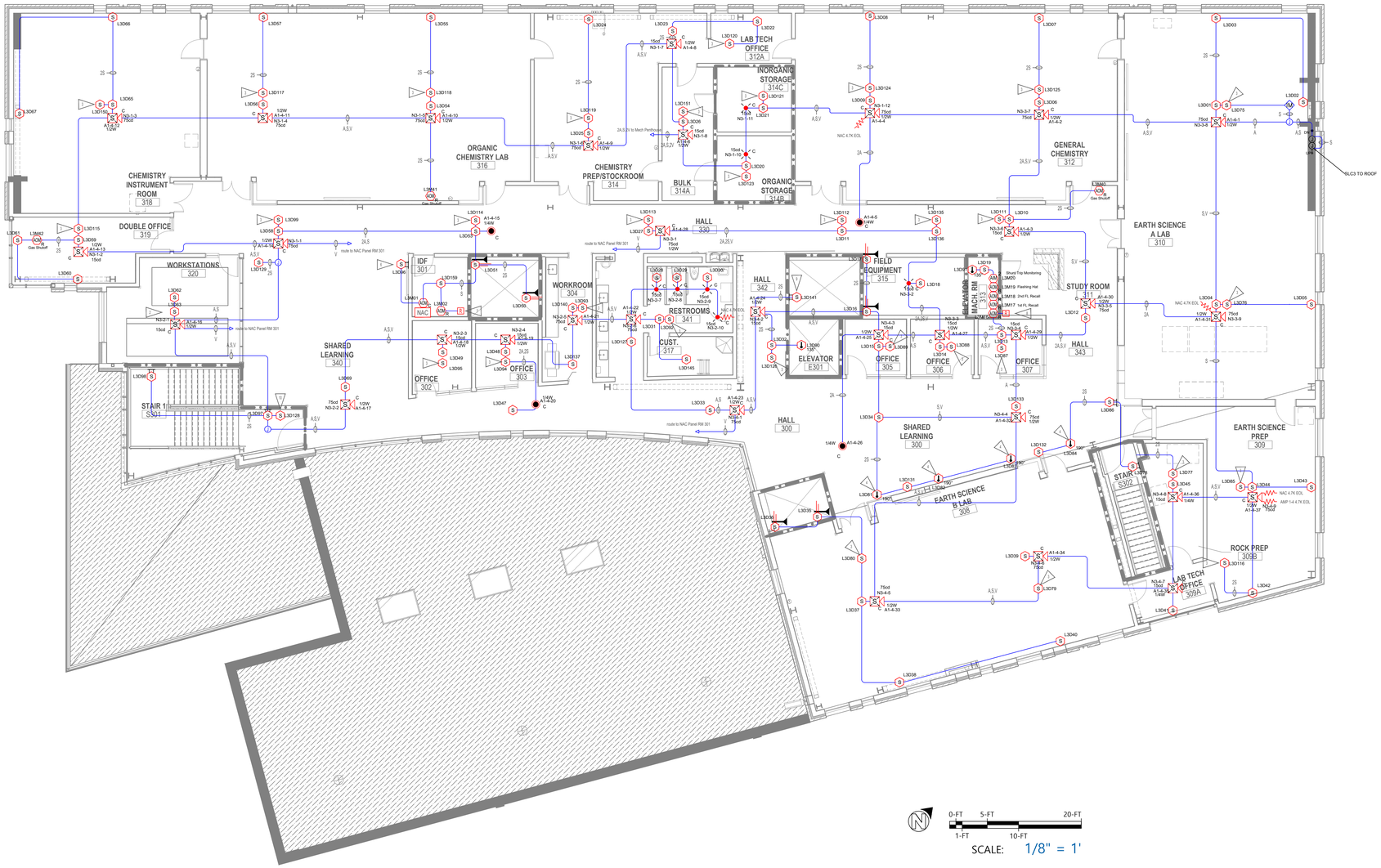
PROJECT MANAGER:
dougmorgan@everonsolutions.com

PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE: 2ND FLOOR PLAN
SHEET: FA-1-2



SCALE: 1/8" = 1'

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FIRE ALARM SYSTEM

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TYPE II-B, FULLY SPRINKLERED
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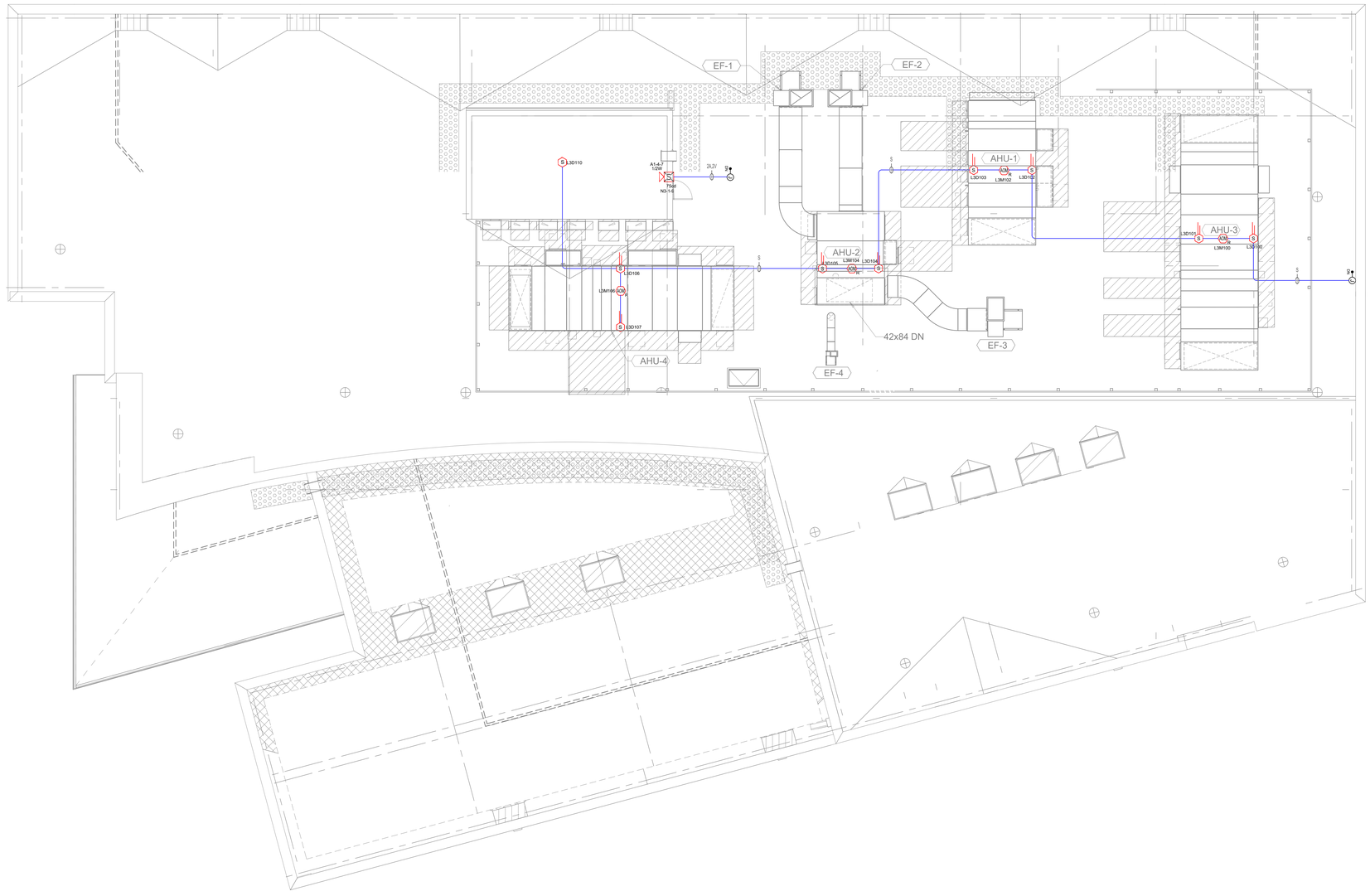
PROJECT MANAGER:

PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE:
3RD FLOOR PLAN

SHEET:
FA-1-3



0-FT 5-FT 20-FT
1-FT 10-FT
SCALE: 1/8" = 1'

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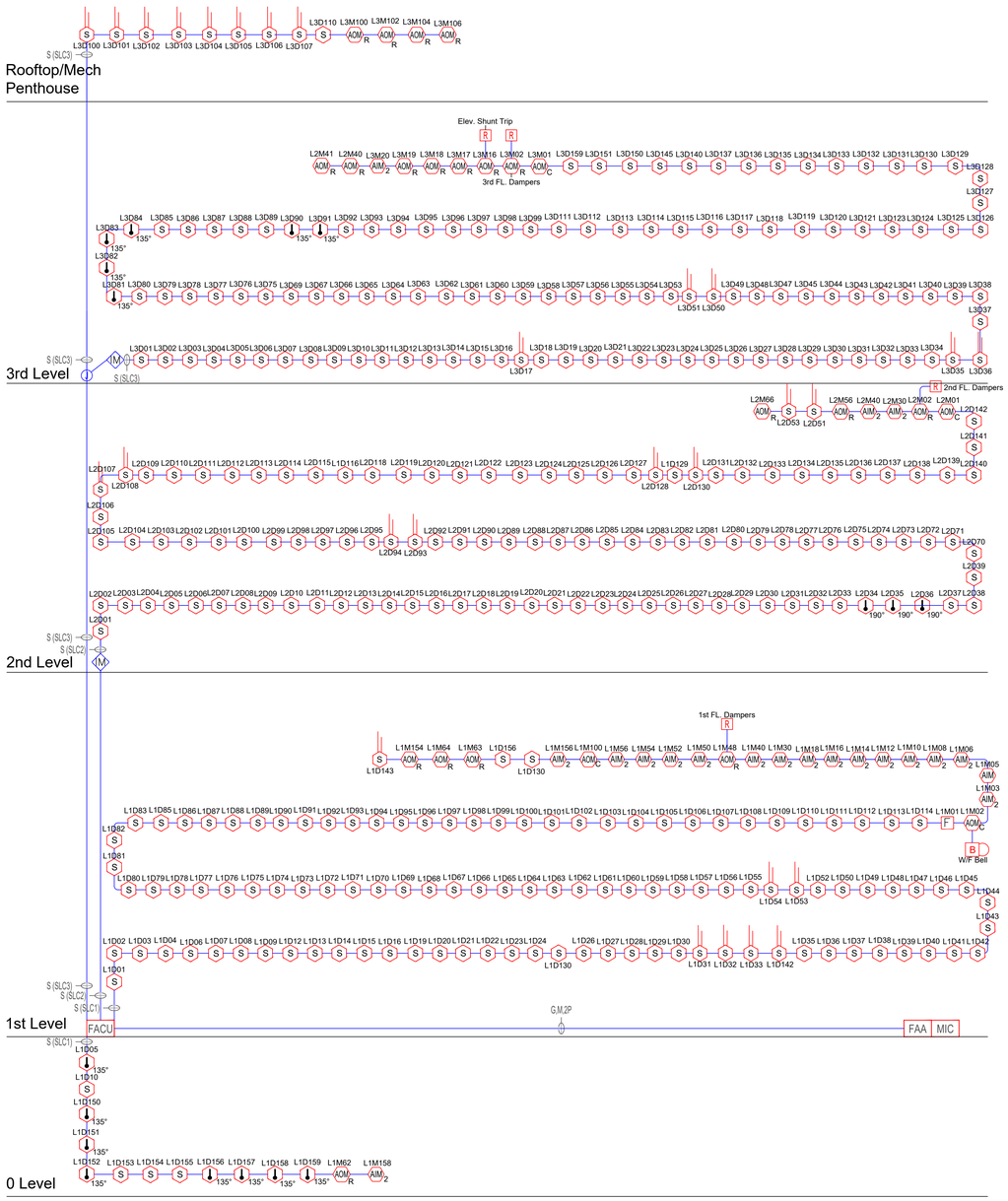
PROJECT MANAGER:

dougmorgan@everonsolutions.com

PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE:

ROOF TOP PLAN

SHEET:
FA-1-R



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FIRE ALARM SYSTEM

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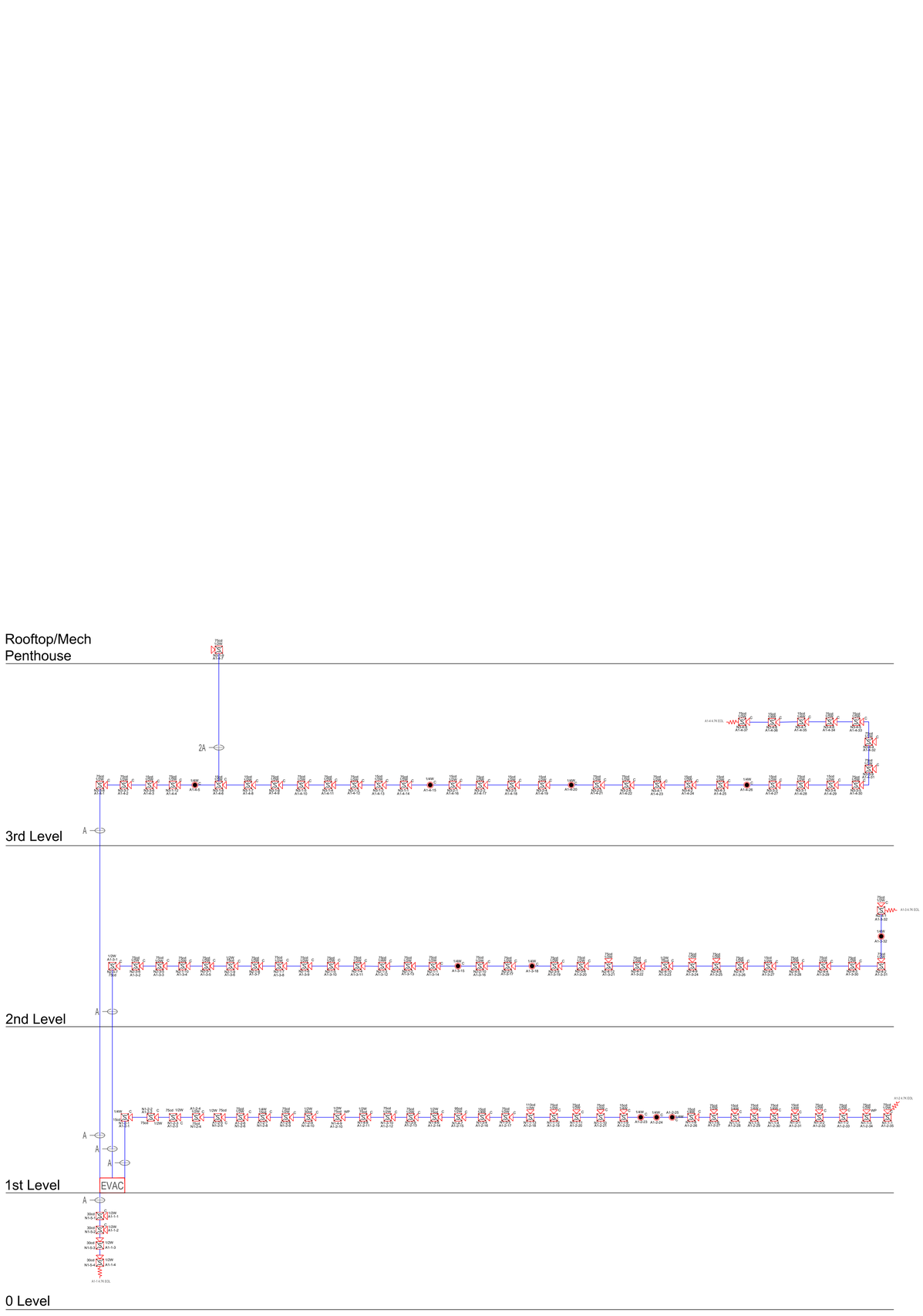
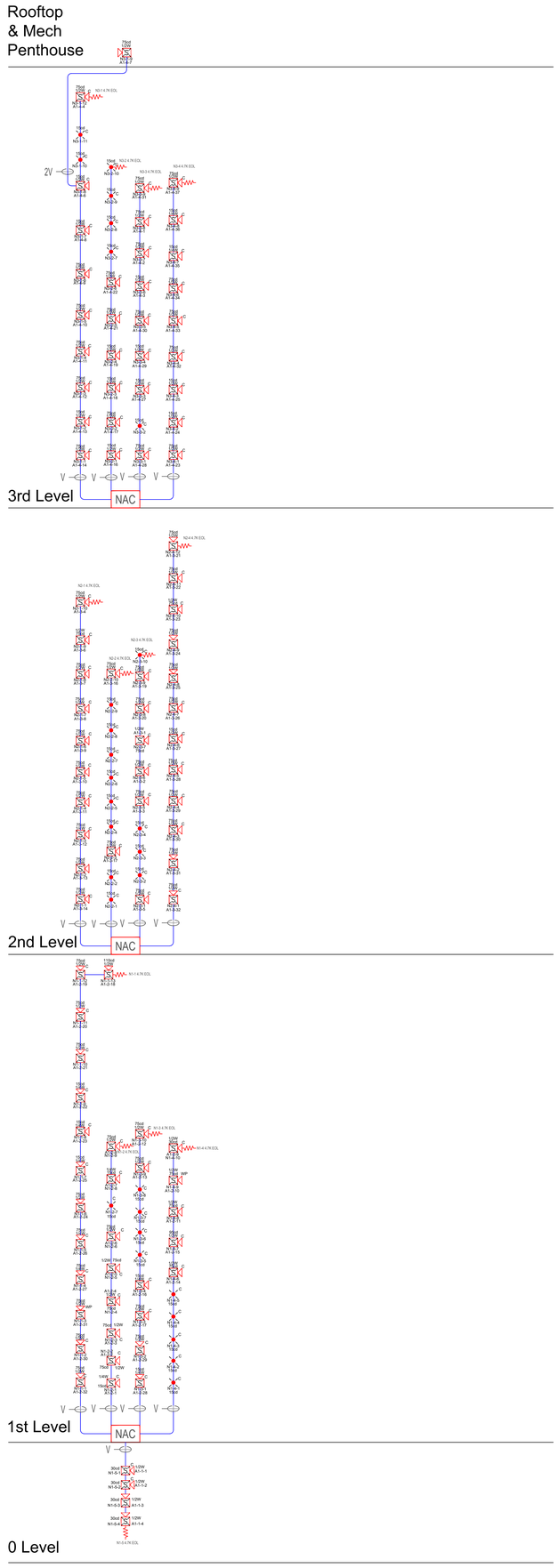
PROJECT MANAGER:
dougmorgan@everonsolutions.com

PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE:
FIRE ALARM RISER

SHEET:
FA-2-1





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PREPARED BY: DK
CHECKED BY: JP
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PROJECT NO: 281716084
TITLE:

FIRE ALARM RISER (CONT.)

SHEET: FA-2-2

FACP BATTERY LOAD CALCULATION — NFS2-3030

FACP INFORMATION:

FACP ID:	NFS2-3030	VOICE EVACUATION?	Yes	CLASS A WIRING:	No
MOUNTING LOCATION:	RM. 128	GENERATOR POWER?	Yes	STANDBY HOURS:	4
FACP USED:	NFS2-3030 (AMPS-24)	MILITARY-DOD?	No	ALARM MINUTES:	15

POWER CALC for NFS2-3030:

LINE	QTY:	MANUFACTURE:	PART #:	DEVICE DESCRIPTION:	EACH DEVICE STANDBY	EACH DEVICE ALARM	SUB-TOTAL STANDBY	SUB-TOTAL ALARM
1	2	Notifier	LCM-320	SLC Loop Control Module	0.1300	0.1300	0.2600	0.2600
2	1	Notifier	LEM-320	SLC Loop Expander Control Module	0.1000	0.1000	0.1000	0.1000
3	1	Notifier	LCD-160	Remote Annunciator - 160 Character	0.0750	0.3250	0.0750	0.3250
4	316	Notifier	FSP-951	Intelligent Photoelectric Detector: White	0.0002	0.0045	0.0632	1.4220
5	10	Notifier	FST-951D20	Intelligent Heat Detector - 135˚ Fixed Temp: White	0.0002	0.0045	0.0020	0.0450
6	7	Notifier	FST-951H	Intelligent Heat Detector - 190˚ Fixed Temp: White	0.0002	0.0045	0.0014	0.0315
7								
8	31	Notifier	DNR	Duct Detector Housing (Requires FSP-951R Smoke Detector)	0.0000	0.0000		
9	31	Notifier	FSP-951R	Intelligent Photoelectric Smoke Detector for DNR Duct Smoke Housing	0.0003	0.0065	0.0093	0.2015
10								
11	1	Notifier	NBG-12LX	Addressable Manual Pull Station	0.0004	0.0050	0.0004	0.0050
12	1	Notifier	FMM-1	Addressable Monitor Module	0.0004	0.0050	0.0004	0.0050
13	16	Notifier	FDM-1	Addressable Dual Monitor Module	0.0002	0.0064	0.0038	0.1024
14	4	Notifier	FCM-1	Addressable Control Module (NAC)	0.0004	0.0065	0.0016	0.0260
15	21	Notifier	FRM-1	Addressable Relay Module	0.0002	0.0065	0.0048	0.1365
16	2	Notifier	ISO-X	Isolation Module	0.0005	0.0170	0.0009	0.0340
17	10	Notifier	PSE-10	Remote 10A NAC Power Supply: 7- 3.0A Outputs	0.0910	0.1450	0.9100	1.4500
18	10	Notifier	FCM-1	Addressable NAC Control Module for NAC PS	0.0004	0.0051	0.0039	0.0510
19	1	System Sensor	SSM24-10	Electric Bell, 10", 24VDC	0.0000	0.0300		0.0300
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
				TOTAL CURRENT DRAWS:			1.436	4.224

BATTERY LOAD CALC for NFS2-3030:

FACP P.S. MAX RATING: 5.000 — TOTAL AMPS REQUIRED: 4.224 — TOTAL % USED: 84%

TOTAL STANDBY CURRENT DRAW: (1.436A) x 4 HRS = 5.744 AMP HOURS (AH): 5.744
TOTAL ALRM CURRENT DRAW: (4.224 A) x 15 MIN = 1.056 AMP HOURS (AH): 1.056

MINIMUM BATTERY SIZE NEEDED (AH): 6.80
PLUS 20% SPARE BATTERY CAPACITY (AH): 1.4
ACTUAL BATTERY SIZE REQUIRED (AH): 8.16

MAXIMUM CHARGER CAPACITY IS: 200 AH: — TOTAL BATTERIES SUPPLIED (AH): 12.0

SPEAKER RISER CIRCUIT LOAD, VOLTAGE DROP & BATTERY LOAD CALCULATION — NFC-100 w/ NFC-CE6

AMPLIFIER INFORMATION:

AMP Name:	NFC-100 w/ NFC-CE6	25V or 70V CIRCUITS?	25	CLASS A WIRING:	No
Location:	RM. 128	GENERATOR POWER?	Yes	STANDBY HOURS:	4
AMP Type:	NFC-100 w/ NFC-CE6	MINITARY-DOD?:	No	ALARM MINUTES:	15

A100 w/

VOLTAGE DROP CALC for NFC-100 w/ NFC-CE6:

DEVICE PART	DEVICE DESCRIPTION:	WATTs (P)	AMPs (A)	AUDIO #1: w/ NFC-CE6-5	AUDIO #2: w/ NFC-CE6-5	AUDIO #3: w/ NFC-CE6-5	AUDIO #4: w/ NFC-CE6-5	AUDIO #5: w/ NFC-CE6-5								TOTAL QTY
SPSCW(L)	Ceiling Speaker set at 1/4 Watt	0.25	0.010		10	4	6									20
SPSCW(L)	Ceiling Speaker set at 1/2 Watt	0.5	0.020	2	23	24	30									79
SPSCW(L)	Ceiling Speaker set at 1 Watt	1	0.040													0
SPSCW(L)	Ceiling Speaker set at 2 Watt	2	0.080													0
SPSW(L)	Wall Speaker set at 1/4 Watt	0.25	0.010													0
SPSW(L)	Wall Speaker set at 1/2 Watt	0.5	0.020	2	2	5	1									10
SPSW(L)	Wall Speaker set at 1 Watt	1	0.040													0
SPSW(L)	Wall Speaker set at 2 Watt	2	0.080													0
			0.000													0
			0.000													0
	# OF DEVICES ON CIRCUIT:			4	35	33	37	0	0	0	0	0	0	0	0	109
	CIRCUIT CONTOLLED BY:			NFC-100	NFC-100	NFC-100	NFC-100	NFC-100								
	TOTAL WATTs per CIRCUIT:			2.00	15.00	15.50	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.50
	TOTAL ALARM CIRCUIT CALCULATED AMPS (1):			0.08	0.60	0.62	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.98
	WIRE GAUGE USED (AWG):			14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	TOTAL
	ESTIMATED CIRCUIT LENGTH (FT):			200	1200	1325	1415									WATTs
	ESTIMATED VOLTAGE DROP:			0.08	3.74	4.27	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	REQUIRED
	ESTIMATED EOL VOLTAGE:			24.92	21.26	20.73	20.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	49.50
	CALCULATED VOLTAGE DROP AS A %:			0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

BATTERY LOAD CALC for NFC-100 w/ NFC-CE6:

TOTAL AMPLIFIER RATING: ##### — TOTAL WATTs REQUIRED: 49.500 — TOTAL % USED: 50%

TOTAL STANDBY CURRENT DRAW FROM CALC: (0 A) + MAIN BOARD STANDBY LOAD: (0.272A) x 4 HRS = 1.088 AMP HOURS (AH): 1.09
TOTAL ALARM CURRENT DRAW FROM CALC: (1.98 A) + MAIN BOARD ALARM LOAD: (0.446A) x 15 MIN = 0.606 AMP HOURS (AH): 0.61

MINIMUM BATTERY SIZE NEEDED (AH): 1.7
PLUS 20% SPARE BATTERY CAPACITY (AH): 0.3
ACTUAL BATTERY SIZE REQUIRED (AH): 2.0

MAXIMUM CHARGER CAPACITY IS: 26 (AH): — TOTAL BATTERIES SUPPLIED (AH): 12.0

NAC CIRCUIT LOAD, VOLTAGE DROP AND BATTERY CALCULATION — APS-1

POWER SUPPLY INFORMATION:

POWER SUPPLY ID:	APS-1	VOICE EVACUATION?	Yes	CLASS A WIRING:	No
INSTALLED LOCATION:	RM. 128	GENERATOR POWER?	Yes	STANDBY HOURS:	4
POWER SUPPLY USED:	HPF-PS10	MILITARY-DOD?	No	ALARM MINUTES:	15

VOLTAGE DROP CALC for APS-1:

DEVICE PART #:	DEVICE DESCRIPTION:	CURRENT DRAWS: STANDBY	CURRENT DRAWS: ALARM	NAC #1: N1-1	NAC #2: N1-2	NAC #3: N1-3	NAC #4: N1-4	NAC #5: N1-5	NAC #6: N1-6	AUX POWER N1-7	TOTAL QTY
SPCWL (-)	Ceiling Speaker (No Strobe)	0.0000	0.0000								0
SPSCWL (15)	Ceiling Speaker w/ Strobe set at 15cd	0.0000	0.0410	3	2	2					7
SPSCWL (30)	Ceiling Speaker w/ Strobe set at 30cd	0.0000	0.0630				1				1
SPSCWL (75)	Ceiling Speaker w/ Strobe set at 75cd	0.0000	0.1110	8	6	4	2				20
SPSCWL (95)	Ceiling Speaker w/ Strobe set at 95cd	0.0000	0.1340				1				1
SCWL (15)	Ceiling Strobe set at 15cd	0.0000	0.0410		1	4	5				10
SCWL (30)	Ceiling Strobe set at 30cd	0.0000	0.0630								0
SCWL (75)	Ceiling Strobe set at 75cd	0.0000	0.1110								0
SCWL (95)	Ceiling Strobe set at 95cd	0.0000	0.1340								0
SCWL (115)	Ceiling Strobe set at 115cd	0.0000	0.1580								0
SPWL (-)	Wall Speaker (No Strobe)	0.0000	0.0000								0
SPSWL (15)	Wall Speaker w/ Strobe set at 15cd	0.0000	0.0430								0
SPSWL (30)	Wall Speaker w/ Strobe set at 30cd	0.0000	0.0630								0
SPSWL (75)	Wall Speaker w/ Strobe set at 75cd	0.0000	0.1070								0
SPSWL (110)	Wall Speaker w/ Strobe set at 110cd	0.0000	0.1480	1							1
SWL (15)	Wall Strobe set at 15cd	0.0000	0.0430								0
SWL (30)	Wall Strobe set at 30cd	0.0000	0.0630								0
SWL (75)	Wall Strobe set at 75cd	0.0000	0.1070								0
SWL (95)	Wall Strobe set at 95cd	0.0000	0.1210								0
FCM-1	Addressable Control Module (NAC)	0.0004	0.0065							1	1
SPSWK (75)	Wall Speaker w/ Strobe set at 75cd,	0.0000	0.1580	1			1				2
SWL (15)	Wall Strobe set at 15cd	0.0000	0.0430								0
	TOTAL QTY OF DEVICES PER CIRCUIT:			13	9	10	10	0	0	1	43
	TOTAL STANDBY CIRCUIT CALCULATED AMPS (3):			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	TOTAL ALARM CIRCUIT CALCULATED AMPS (1):			1.317	0.789	0.690	0.782	0.000	0.000	0.007	3.585
	WIRE GAUGE USED (AWG):			14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	TOTAL
	CIRCUIT LENGTH (FT):			525	365	285	340	0	0	0.25	AMPs
	ESTIMATED VOLTAGE DROP (DC):			3.60	1.50	1.02	1.38	0.00	0.00	0.00	REQUIRED
	ESTIMATED EOL VOLTAGE (DC:			20.4	22.5	23.0	22.6	24.0	24.0	24.0	3.585
	CALCULATED VOLTAGE DROP %:			15.0%	6.2%	4.3%	5.8%	0.0%	0.0%	0.0%	

1) CURRENT DRAW MEASUREMENT IS BASED ON: UL1971, 16-33V, DC, HIGH DB SETTING & TEMPORAL 3 PATTEN
2) SOME OUTDOOR/WP DEVICES HAVE THE SAME MEASURED CURRENT DRAW AS THE INDOOR DEVICES AND MAY NOT LISTED SEPARATELY ABOVE.
3) WHEN THE CIRCUIT IS CONFIGURED FOR DOOR RELEASE, THE CIRCUIT TURNS OFF ON LOSS OF AC POWER. THEREFORE NO "STANDBY" CURRENT DRAW IS SH

BATTERY LOAD CALC for APS-1:

NAC P.S. MAX RATING: 10.000 — TOTAL AMPS REQUIRED: 3.770 — TOTAL % USED: 38%

TOTAL STANDBY CURRENT DRAW FROM CALC: (0.00039 A) + MAIN BOARD STANDBY LOAD: (0.126A) x 4 HRS = 0.505 AMP HOURS (AH): 0.51
TOTAL ALARM CURRENT DRAW DRAW FROM CALC: (3.5845 A) + MAIN BOARD ALARM LOAD: (0.185A) x 15 MIN = 0.942 AMP HOURS (AH): 0.94

MINIMUM BATTERY SIZE NEEDED (AH): 1.45
PLUS 20% SPARE BATTERY CAPACITY (AH): 0.29
ACTUAL BATTERY SIZE REQUIRED (AH): 1.74

MAXIMUM CHARGER CAPACITY IS: 33 AH — TOTAL BATTERIES SUPPLIED (AH): 7.0

NAC CIRCUIT LOAD, VOLTAGE DROP AND BATTERY CALCULATION — APS-2

POWER SUPPLY INFORMATION:

POWER SUPPLY ID:	APS-2	VOICE EVACUATION?	Yes	CLASS A WIRING:	No
INSTALLED LOCATION:	RM. 221	GENERATOR POWER?	Yes	STANDBY HOURS:	4
POWER SUPPLY USED:	HPF-PS10	MILITARY-DOD?	No	ALARM MINUTES:	15

VOLTAGE DROP CALC for APS-2:

DEVICE PART #:	DEVICE DESCRIPTION:	CURRENT DRAWS: STANDBY	CURRENT DRAWS: ALARM	NAC #1: N2-1	NAC #2: N2-2	NAC #3: N2-3	NAC #4: N2-4	NAC #5: N2-5	NAC #6: N2-6	AUX POWER N2-7	TOTAL QTY
SPCWL (-)	Ceiling Speaker (No Strobe)	0.0000	0.0000								0
SPSCWL (15)	Ceiling Speaker w/ Strobe set at 15cd	0.0000	0.0410				1				1
SPSCWL (30)	Ceiling Speaker w/ Strobe set at 30cd	0.0000	0.0630								0
SPSCWL (75)	Ceiling Speaker w/ Strobe set at 75cd	0.0000	0.1110	9	2	6	7				24
SPSCWL (95)	Ceiling Speaker w/ Strobe set at 95cd	0.0000	0.1340								0
SCWL (15)	Ceiling Strobe set at 15cd	0.0000	0.0410		8	4					12
SCWL (30)	Ceiling Strobe set at 30cd	0.0000	0.0630								0
SCWL (75)	Ceiling Strobe set at 75cd	0.0000	0.1110								0
SCWL (95)	Ceiling Strobe set at 95cd	0.0000	0.1340								0
SCWL (115)	Ceiling Strobe set at 115cd	0.0000	0.1580								0
SPWL (-)	Wall Speaker (No Strobe)	0.0000	0.0000								0
SPSWL (15)	Wall Speaker w/ Strobe set at 15cd	0.0000	0.0430								0
SPSWL (30)	Wall Speaker w/ Strobe set at 30cd	0.0000	0.0630								0
SPSWL (75)	Wall Speaker w/ Strobe set at 75cd	0.0000	0.1070	1			4				5
SPSWL (95)	Wall Speaker w/ Strobe set at 95cd	0.0000	0.1210								0
SWL (15)	Wall Strobe set at 15cd	0.0000	0.0430								0
SWL (30)	Wall Strobe set at 30cd	0.0000	0.0630								0
SWL (75)	Wall Strobe set at 75cd	0.0000	0.1070								0
SWL (95)	Wall Strobe set at 95cd	0.0000	0.1210								0
SWL (115)	Wall Strobe set at 110cd	0.0000	0.1480								0
FCM-1	Addressable Control Module (NAC)	0.0004	0.0065							1	1
SWL (15)	Wall Strobe set at 15cd	0.0000	0.0430								0
	TOTAL QTY OF DEVICES PER CIRCUIT:			10	10	10	12	0	0	1	43
	TOTAL STANDBY CIRCUIT CALCULATED AMPS (3):			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	TOTAL ALARM CIRCUIT CALCULATED AMPS (1):			1.106	0.550	0.830	1.246	0.000	0.000	0.007	3.739
	WIRE GAUGE USED (AWG):			14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	TOTAL
	CIRCUIT LENGTH (FT):			415	90	375	550	0	0	0.25	AMPs
	ESTIMATED VOLTAGE DROP (DC):			2.39	0.26	1.62	3.56	0.00	0.00	0.00	REQUIRED
	ESTIMATED EOL VOLTAGE (DC:			21.6	23.7	22.4	20.4	24.0	24.0	18.0	3.739
	CALCULATED VOLTAGE DROP %:			9.9%	1.1%	6.7%	14.8%	0.0%	0.0%	0.0%	

1) CURRENT DRAW MEASUREMENT IS BASED ON: UL1971, 16-33V, DC, HIGH DB SETTING & TEMPORAL 3 PATTEN
2) SOME OUTDOOR/WP DEVICES HAVE THE SAME MEASURED CURRENT DRAW AS THE INDOOR DEVICES AND MAY NOT LISTED SEPARATELY ABOVE.
3) WHEN THE CIRCUIT IS CONFIGURED FOR DOOR RELEASE, THE CIRCUIT TURNS OFF ON LOSS OF AC POWER. THEREFORE NO "STANDBY" CURRENT DRAW IS SH

BATTERY LOAD CALC for APS-2:

NAC P.S. MAX RATING: 10.000 — TOTAL AMPS REQUIRED: 3.924 — TOTAL % USED: 39%

TOTAL STANDBY CURRENT DRAW FROM CALC: (0.00039 A) + MAIN BOARD STANDBY LOAD: (0.126A) x 4 HRS = 0.505 AMP HOURS (AH): 0.51
TOTAL ALARM CURRENT DRAW DRAW FROM CALC: (3.7385 A) + MAIN BOARD ALARM LOAD: (0.185A) x 15 MIN = 0.98 AMP HOURS (AH): 0.98

MINIMUM BATTERY SIZE NEEDED (AH): 1.49
PLUS 20% SPARE BATTERY CAPACITY (AH): 0.30
ACTUAL BATTERY SIZE REQUIRED (AH): 1.78

MAXIMUM CHARGER CAPACITY IS: 33 AH — TOTAL BATTERIES SUPPLIED (AH): 7.0

NAC CIRCUIT LOAD, VOLTAGE DROP AND BATTERY CALCULATION — APS-3

POWER SUPPLY INFORMATION:

POWER SUPPLY ID:	APS-3	VOICE EVACUATION?	Yes	CLASS A WIRING:	No
INSTALLED LOCATION:	RM. 301	GENERATOR POWER?	Yes	STANDBY HOURS:	4
POWER SUPPLY USED:	HPF-PS10	MILITARY-DOD?	No	ALARM MINUTES:	15

VOLTAGE DROP CALC for APS-3:

DEVICE PART #:	DEVICE DESCRIPTION:	CURRENT DRAWS: STANDBY	CURRENT DRAWS: ALARM	NAC #1: N3-1	NAC #2: N3-2	NAC #3: N3-3	NAC #4: N3-4	NAC #5: N3-5	NAC #6: N3-6	AUX POWER N3-7	TOTAL QTY
SPCWL (-)	Ceiling Speaker (No Strobe)	0.0000	0.0000								0
SPSCWL (15)	Ceiling Speaker w/ Strobe set at 15cd	0.0000	0.0410	3	3	3	4				13
SPSCWL (30)	Ceiling Speaker w/ Strobe set at 30cd	0.0000	0.0630								0
SPSCWL (75)	Ceiling Speaker w/ Strobe set at 75cd	0.0000	0.1110	6	3	5	5				19
SPSCWL (95)	Ceiling Speaker w/ Strobe set at 95cd	0.0000	0.1340								0
SCWL (15)	Ceiling Strobe set at 15cd	0.0000	0.0410	2	4	1					7
SCWL (30)	Ceiling Strobe set at 30cd	0.0000	0.0630								0
SCWL (75)	Ceiling Strobe set at 75cd	0.0000	0.1110								0
SCWL (95)	Ceiling Strobe set at 95cd	0.0000	0.1340								0
SCWL (115)	Ceiling Strobe set at 115cd	0.0000	0.1580								0
SPWL (-)	Wall Speaker (No Strobe)	0.0000	0.0000								0
SPSWL (15)	Wall Speaker w/ Strobe set at 15cd	0.0000	0.0430								0
SPSWL (30)	Wall Speaker w/ Strobe set at 30cd	0.0000	0.0630								0
SPSWL (75)	Wall Speaker w/ Strobe set at 75cd	0.0000	0.1070	1							1
SPSWL (95)	Wall Speaker w/ Strobe set at 95cd	0.0000	0.1210								0
SWL (15)	Wall Strobe set at 15cd	0.0000	0.0430								0
SWL (30)	Wall Strobe set at 30cd	0.0000	0.0630								0
SWL (75)	Wall Strobe set at 75cd	0.0000	0.1070								0
SWL (95)	Wall Strobe set at 95cd	0.0000	0.1210								0
SWL (115)	Wall Strobe set at 110cd	0.0000	0.1480								0
FCM-1	Addressable Control Module (NAC)	0.0004	0.0065							1	1
SWL (15)	Wall Strobe set at 15cd	0.0000	0.0430								0
	TOTAL QTY OF DEVICES PER CIRCUIT:			12	10	9	9	0	0	1	41
	TOTAL STANDBY CIRCUIT CALCULATED AMPS (3):			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	TOTAL ALARM CIRCUIT CALCULATED AMPS (1):			0.978	0.620	0.719	0.719	0.000	0.000	0.007	3.043
	WIRE GAUGE USED (AWG):			14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	TOTAL
	CIRCUIT LENGTH (FT):			440	325	355	340	0	0	0.25	AMPs
	ESTIMATED VOLTAGE DROP (DC):			2.24	1.05	1.33	1.27	0.00	0.00	0.00	REQUIRED
	ESTIMATED EOL VOLTAGE (DC:			21.8	23.0	22.7	22.7	24.0	24.0	24.0	3.043
	CALCULATED VOLTAGE DROP %:			9.3%	4.4%	5.5%	5.3%	0.0%	0.0%	0.0%	

1) CURRENT DRAW MEASUREMENT IS BASED ON: UL1971, 16-33V, DC, HIGH DB SETTING & TEMPORAL 3 PATTEN
2) SOME OUTDOOR/WP DEVICES HAVE THE SAME MEASURED CURRENT DRAW AS THE INDOOR DEVICES AND MAY NOT LISTED SEPARATELY ABOVE.
3) WHEN THE CIRCUIT IS CONFIGURED FOR DOOR RELEASE, THE CIRCUIT TURNS OFF ON LOSS OF AC POWER. THEREFORE NO "STANDBY" CURRENT DRAW IS SH

BATTERY LOAD CALC for APS-3:

NAC P.S. MAX RATING: 10.000 — TOTAL AMPS REQUIRED: 3.228 — TOTAL % USED: 32%

TOTAL STANDBY CURRENT DRAW FROM CALC: (0.00039 A) + MAIN BOARD STANDBY LOAD: (0.126A) x 4 HRS = 0.505 AMP HOURS (AH): 0.51
TOTAL ALARM CURRENT DRAW DRAW FROM CALC: (3.0425 A) + MAIN BOARD ALARM LOAD: (0.185A) x 15 MIN = 0.806 AMP HOURS (AH): 0.81

MINIMUM BATTERY SIZE NEEDED (AH): 1.31
PLUS 20% SPARE BATTERY CAPACITY (AH): 0.26
ACTUAL BATTERY SIZE REQUIRED (AH): 1.57

MAXIMUM CHARGER CAPACITY IS: 33 AH — TOTAL BATTERIES SUPPLIED (AH): 7.0

City of Puyallup
Development & Permitting Services
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FIRE ALARM SYSTEMS
FIRE PROTECTION ENGINEERING TECHNOLOGY

Daniel Kelso
Expiration: 2025-03-01

REVISIONS

NO.	DATE	REVISION
1	07/2024 BYDK	REDESIGN FOR RESUBMISSION
1	- BY:___	-
2	- BY:___	-
3	- BY:___	-
4	- BY:___	-

CODES ADOPTED BY LOCAL AHJ

2019 NFPA 72 NATIONAL FIRE ALARM CODE
2018 INTERNATIONAL BUILDING CODE
2017 NFPA 70 NATIONAL ELECTRICAL CODE

PIERCE COLLEGE -
S.T.E.M. BLDG.
1601 39TH AVE SE
PUYALLUP, WA 98374

FIRE ALARM SYSTEM

BUILDING INFORMATION
GROUPS: B, A-3, S-1
TYPE II-B, FULLY SPRINKLERED
TOTAL BLDG AREA: 53,997 SQFT.

PROJECT MANAGER:
dougmorgan@everonsolutions.com

PREPARED BY: DK
CHECKED BY: JP
DATE: 07/20-2024
PROJECT NO: 281716084
TITLE:
CALCULATIONS

SHEET:
FA-5-1