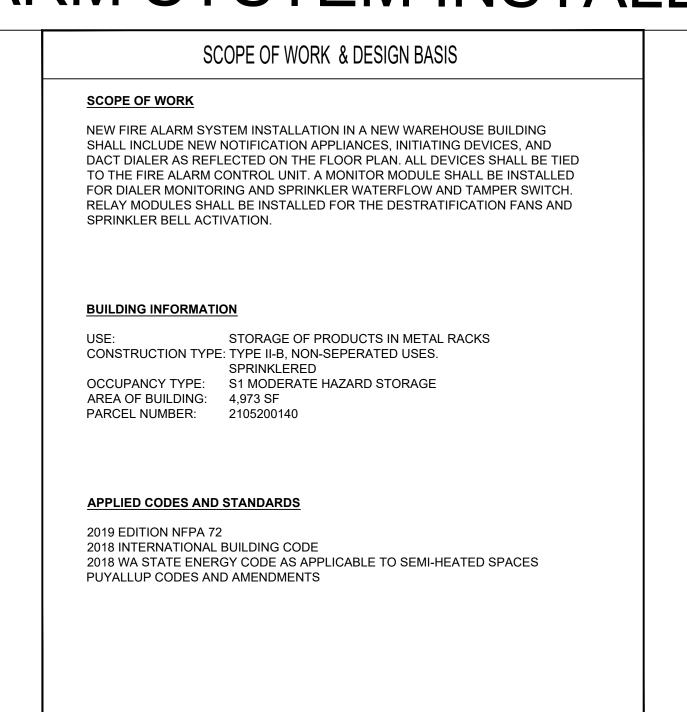
# PROPOSED WAREHOUSE CIMCO SALES

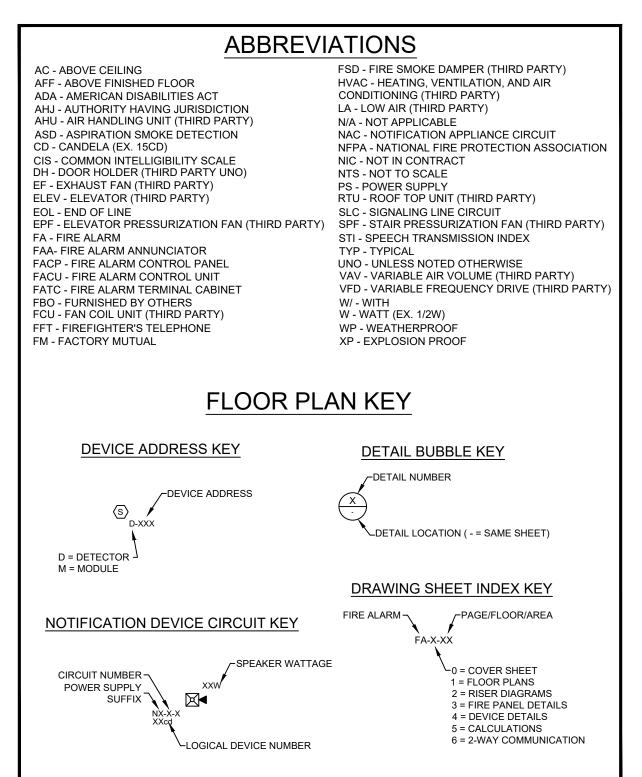
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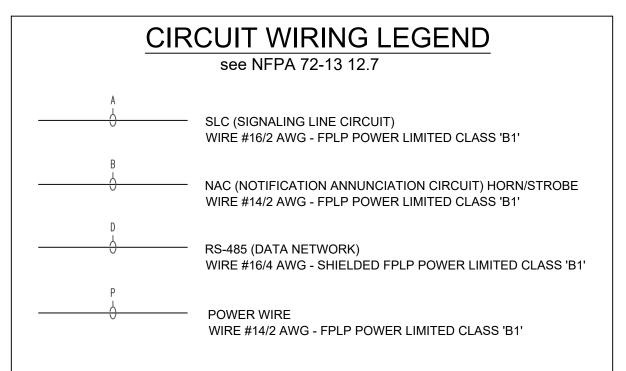
> 2315 INTER AVENUE PUYALLUP, WA 98372

# FIRE ALARM SYSTEM INSTALLATION

	SYMBOL LEGEND							
	NEW QTY	EXIST QTY	DESCRIPTION	PART#	MANUFACTURER	MOUNTING/DIMENSIONS		
FACU	1	-	FIRE ALARM CONTROL UNIT	NFW-50X	NOTIFIER	WALL MOUNTED		
I ACO	2	-	BATTERY, 12V, 18AH	SLA1116	INTERSTATE	IN PANEL		
DACT	1	-	DIGITAL ALARM COMMUNICATOR TRANSMITTER	SLE-LTE SERIES	STARLINK	WALL MOUNTED		
DOC	1	-	DOCUMENT BOX	DBX	SPAGE AGE ELECTRONICS	WALL MOUNTED		
(AIM) <sub>D</sub>	2	-	ADDRESSABLE DUAL MONITOR MODULE	FDM-1	NOTIFIER	4" SQUARE BOX		
(AOM) <sub>C</sub>	1	-	ADDRESSABLE CONTROL MODULE	FCM-1	NOTIFIER	4" SQUARE BOX		
$\langle \!\!\! \text{AOM} \!\!\!\! \rangle_{\!\!\! R}$	4	-	ADDRESSABLE RELAY MODULE	FRM-1	NOTIFIER	4" SQUARE BOX		
R	4	-	MULTIVOLTAGE POWER RELAY	MR-101	NOTIFIER	4" SQUARE BOX		
F	3	-	ADDRESSABLE PULL STATION DUAL ACTION	NBG-12LX	NOTIFIER	SINGLE GANG BOX		
⟨S⟩ <sub>P</sub>	16	-	ADDRESSABLE PHOTOELECTRIC DETECTOR WITH BASE	FSP-951 B300-6 BASE	NOTIFIER	4" O BOX		
X	6		MULTI-CANDELA HORN/STROBE, CEILING MOUNTED	PC2WL	SYSTEM SENSOR	4" SQUARE BOX, DEEP		
NP WP	1	-	WEATHERPROOF HORN/STROBE, WALL MOUNTED	P2WK	SYSTEM SENSOR	WEATHERPROOF BACKBOX		







#### FIRE ALARM / LIFE SAFETY PROVIDER: **INSTALLATION & GENERAL WIRING NOTES:** NAME: ADT COMMERCIAL (SEATTLE) ADDRESS: 21312 30TH DRIVE SE, SUITE #103 INSTALLATION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE BOTHELL, WA 98021 WITH NFPA, LOCAL AND STATE AHJ'S, NEC AND CONTRACT PHONE: 425-486-2600 WIRE ROUTING IS DIAGRAMMATIC IN NATURE ONLY AND NOT 425-486-2611 INTENDED FOR ACTUAL CONDUIT ROUTING. ALL CONDUIT SIZING AND ROUTING BY ELECTRICAL jasonstreeter@adt.com CONTRACTOR PER NEC AND AHJ. VERIFY ALL LOCATIONS OF DEVICES WITH DESIGNER: ELECTRICAL/ARCHITECTURAL PLANS. SCALE AND PLACE ALL

DEVICE PER ELECTRICAL/ARCHITECTURAL PLANS.

CHECKOUT. AS-BUILTS:

LIMITED CABLES.

FIRE ALARM SPECIFIC NOTES:

ANY AIR DIFFUSER.

INSTALLED.

CONTRACTOR

TECHNICIAN.

2 WEEKS PRIOR TO AHJ TESTS.

INVOICED ON A T&M BASIS.

PRIOR TO INSTALLATION.

BOTTOM (PER ADA REQUIREMENTS).

ADT COMMERCIAL (RHF&S) TECHNICIANS.

PROTECTION CONTRACTOR

(RHF&S) TECHNICIAN.

ALL CIRCUITS WILL BE PROPERLY TAGGED AND TESTED FOR OPENS, SHORTS, GROUNDS AND PROPER "END-OF-LINE"

FIELD TECHNICIAN UPON ARRIVAL ONSITE FOR STARTUP &

ACTUAL CONDUIT AND CONDUCTOR ROUTES SHALL BE KEPT

BY PROJECT FOREMAN FOR USE BY ADT COMMERCIAL

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. AS-BUILT REDLINES NOT PROVIDING THIS INFORMATION WILL

CORRECTION. ADT COMMERCIAL (RHF&S) IS NOT

8. ALL ADT COMMERCIAL (RHF&S) FIELD SERVICES MUST BE SCHEDULED WITH ADT COMMERCIAL (RHF&S) PROJECT MANAGER WITH A MINIMUM OF 14 WORKING DAYS ADVANCE

9. DO NOT INSTALL LINE VOLTAGE IN SAME CONDUIT AS POWER

SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF

NFPA 72-17.7.1.11 REQUIRES THAT SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER FINAL CONSTRUCTION

2.1. ANY SMOKE DETECTORS THAT HAVE BEEN INSTALLED PRIOR

3. WALL MOUNTED NOTIFICATION DEVICES BACKBOX BETWEEN A

3.1. DEVICES THAT ARE UNABLE TO BE MOUNTED WITHIN THAT

3.2. SEE FLOOR PLANS FOR CANDELA RATING OF EACH DEVICE

5. FIELD VERIFY ALL SPRINKLER MONITORING DEVICES WITH FIRE

6. FIELD VERIFY ALL HVAC, FAN CONTROL, FIRE/SMOKE DAMPERS AND DUCT DETECTORS LOCATIONS WITH MECHANICAL

7. FACP SHALL NOT BE ENERGIZED WITHOUT THE PRESENCE OF

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 FACP

8.1. CABLE SHIELDS SHALL BE SPLICED TOGETHER AT EVERY

10. AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. ADT

10.1. EACH CIRCUIT (SLC, NAC OR POWER) MUST BE CLEARLY

DEVICES ARE WIRED TO COMPLETE THE CIRCUIT.

10.2. EACH NAC CIRCUIT MUST BE CLEARLY MARKED AS TO WHICH DEVICES ARE ON EACH CIRCUIT AND IN THE ORDER THE

COMMERCIAL (RHF&S) REQUIRED ELECTRICAL RED LINES WITHIN

9. THE SYSTEM SHALL BE MONITORED BY A U.L. LISTED MONITORING STATION BEFORE AHJ TEST.

IDENTIFIED WITH A DISTINCT COLOR

JUNCTION BETWEEN THE FACP 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 FACP BY THE ADT COMMERCIAL (RHF&S) FIELD

ALL MANUAL PULL STATIONS ARE TO BE MOUNTED AT A HEIGHT NO GREATER THAN 48" TO TOP AND NO LOWER THAN 36" TO

MINIMUM OF 80" AFF TO A MAXIMUM OF 96" AFF.

TO CLEAN-UP MUST BE CLEANED OR REPLACED AND WILL BE

RANGE MUST BE VERIFIED BY ADT COMMERCIAL (RHF&S)

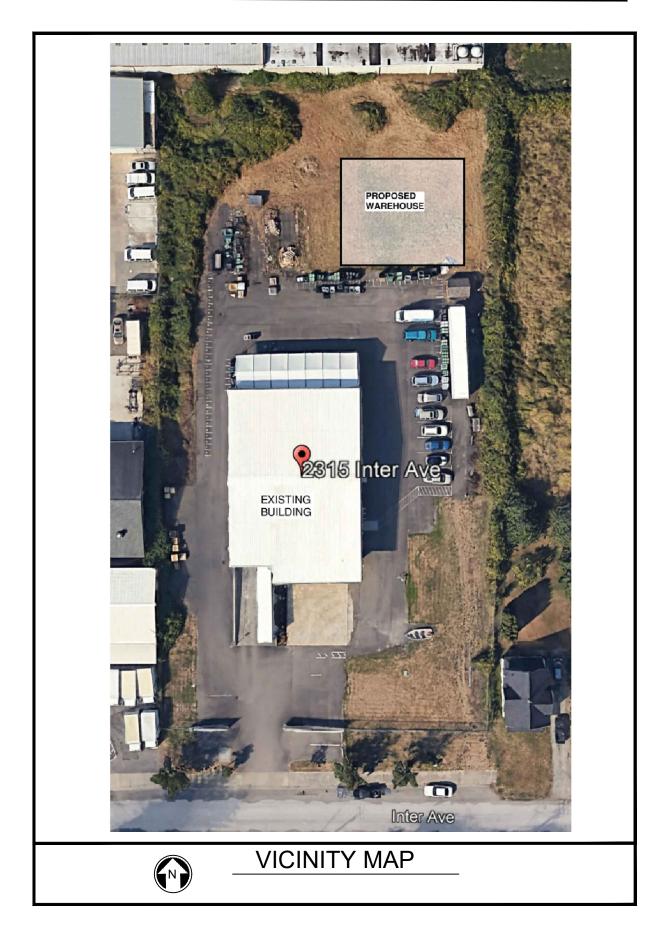
AGREEMENT AND CONFIRMATION OF ALL MILESTONE EVENTS WILL BE MADE WITH ADT COMMERCIAL (RHF&S) PROJECT

RESPONSIBLE FOR THESE DELAYS.

BE RETURNED TO THE INSTALLATION CONTRACTOR FOR

RESISTANCE. EACH CIRCUITS METER READING MUST BE DOCUMENTED AND PRESENTED TO ADT COMMERCIAL (RHF&S)

6.1. A SET OF INSTALLATION AS-BUILT DRAWINGS SHOWING



	SHEET INDEX
SHEET NO	DESCRIPTION
FA-0-1	COVER SHEET
FA-0-2	PROJECT NOTES
FA-1-1	FIRE ALARM PLAN - GROUND FLOOR
FA-2-1	FIRE ALARM RISER DIAGRAM AND CALCULATIONS
FA-3-1	FIRE ALARM CONTROL PANEL DETAILS
FA-4-1	DEVICE WIRING DETAILS

EXT: EXT:

> FIRE ALARM SYSTEM BUILDING INFORMATION PROJECT ADDRESS: 2315 INTER AVENUE

> > PUYALLUP, WA 98372

CODES ADOPTED BY LOCAL AHJ

2019 NFPA 72 NATIONAL FIRE ALARM CODE

2018 INTERNATIONAL BUILDING CODE

PROPOSED WAREHOUSE

CIMCO SALES

2018 WA STATE ENERGY CODE

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Renton, WA 98057

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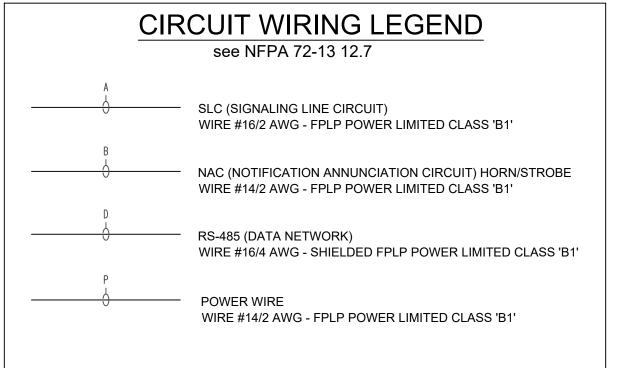
Jason Streeter

PREPARED BY: **CHECKED BY:** 03-13-2024 DATE: 501716114 PROJECT NO: TITLE:

**COVER SHEET** 

SHEET: FA-0-1

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 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					
FLOOR PLA	AN KEY					
DEVICE ADDRESS KEY	DETAIL BUBBLE KEY					
D = DETECTOR  M = MODULE	DETAIL NUMBER   DETAIL LOCATION ( - = SAME SHEET)					
	DRAWING SHEET INDEX KEY					
NOTIFICATION DEVICE CIRCUIT KEY	FA-X-XX					
CIRCUIT NUMBER - SPEAKER WATTAGE POWER SUPPLY SUFFIX  NXXX  XXcd	0 = COVER SHEET 1 = FLOOR PLANS 2 = RISER DIAGRAMS 3 = FIRE PANEL DETAILS 4 = DEVICE DETAILS 5 = CALCULATIONS					



JOHN PELATA NICET III FIRE ALARM SYSTEMS CERT # 117231 EXPIRE DATE: 07/01/2024

**DESIGNER of RECORD** 

NICEY

FOR VERIFICATION PLEASE VISIT: NICET.ORG

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.

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING

MUST BE POSTED ON THE JOB AT

READILY ACCESSIBLE LOCATION.

ALL INSPECTIONS IN A VISIBLE AND

Approval of submitted plans is not an

City of Puyallup

REVIEWED

COMPLIANCE

**DDrake** 

6:40:28 AM

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# NOTIFICATION WIRING

SPEAKER CIRCUIT WIRING LIMITATIONS:

WIRE LENGTH LIMITATIONS:

THE MAXIMUM ALLOWABLE WIRE LENGTH IS THE FARTHEST DISTANCE THAT A SPEAKER CIRCUIT CAN EXTEND FROM THE AMPLIFIER TO THE LAST SPEAKER WITHOUT LOSING 0.5 dB OF SIGNAL. THE FOLLOWING ARE MAXIMUM DISTANCE BASED ON APPROXIMATE WATTAGE OF THE SPEAKER CIRCUIT. CIRCUIT LENGTHS ARE FURTHER BASED ON ORIGINATION OF A CIRCUIT FROM EITHER THE AMPLIFIER OR FROM THE CC1 MODULE.

ALLOWABLE LENGTH AT 25 Vrms, WITH 0.5 dB LOSS 16AWG - 20 WATTS - 231' 16AWG - 30 WATTS - 154' 16AWG - 40 WATTS - 116'

ALLOWABLE LENGTH AT 70 Vrms, WITH 0.5 dB LOSS 16AWG - 20 WATTS - 1815' 16AWG - 30 WATTS - 1210' 16AWG - 40 WATTS - 907'

#### NAC CIRCUIT (HORN, STROBE) WIRING LIMITATIONS:

FOR 24VDC SYSTEMS, MINIMUM DEVICE OPERATING VOLTAGE IS 16VDC. VOLTAGE DROP CALCULATIONS ARE BASED ON 16VDC AND POWER SUPPLY DE-RATED AND ON DEPLETED BATTERY BACKUP PER THE PRESCRIBED PERIOD OF STANDBY AND ALARM RING TIME. THE VOLTAGE DROP WILL LIMIT THE CIRCUITS CAPACITY IN ALMOST ALL CASES AND CURRENT CANNOT BE USED AS THE ONLY CIRCUIT WIRING LIMITATION. ALTERATIONS TO CIRCUIT LENGTH FROM THOSE CALCULATED MAY CAUSE CIRCUITS TO BE OUT OF THE TOLERANCES GRANTED BY THE FIRE ALARM CODE. CHANGES TO DEVICE LOCATION OR CIRCUIT LENGTH SHALL BE COMMUNICATED TO THE ADT COMMERCIAL TEAM.

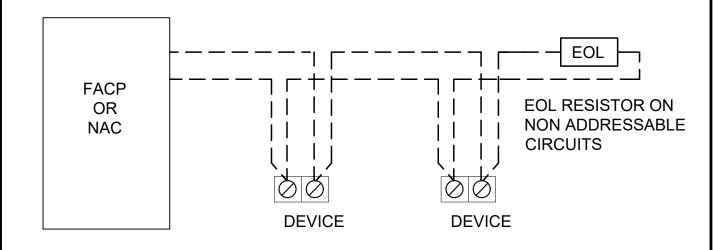
NAC CIRCUIT WIRING AND ROUTING MUST NOT EXCEED WHAT IS SHOWN ON THE DESIGN DRAWINGS AND CALCULATIONS. A VOLTAGE DROP TEST IS PART OF MOST FIRE FINALS AND IS REQUIRED BY NFPA. A FAILED FIRE FINAL MAY REQUIRE REWIRING OF THE FAILED CIRCUITS.

WIRE RESISTANCE RATINGS USED FOR CALCULATIONS: 18AWG - 13 OHMS PER 1000' 16AWG - 8 OHMS PER 1000' 14AWG - 5.2 OHMS PER 1000'

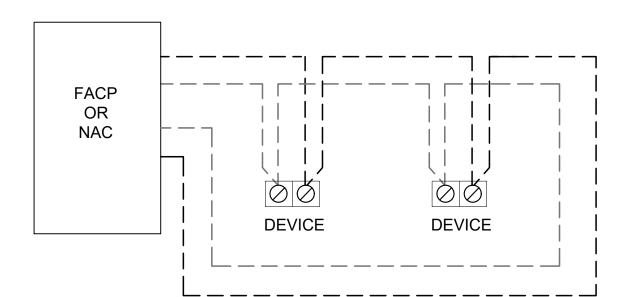
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EXAMPLE: 1.0 AMP CIRCUIT LOAD USING #14 WIRE = 409 FEET MAXIMUM.

# CLASS A OR B NOTIFICATION WIRING



CLASS B, STYLE 4 WIRING



CLASS A, STYLE 6 WIRING

#### SEPARATION OF CLASS A CIRCUITS - INSTALLATION EXCEPTIONS:

CLASS A OUTGOING AND RETURN CONDUCTORS, EXITING AND RETURNING TO THE CONTROL PANEL, ARE TO BE ROUTED SEPARATELY. THE MINIMUM RECOMMENDED SEPARATION IS 1 FT. VERTICALLY AND 4 FT. HORIZONTALLY. THE FOLLOWING EXCEPTIONS STILL DO NOT ELIMINATE THE 2ND PAIR OF WIRES. THEY ALLOW YOU TO USE A SINGLE RACEWAY AND ELIMINATE THE SEPARATION FOR THESE CONDITIONS.

- 1. WHEN MAXIMUM CABLE, ENCLOSURE, OR RACEWAY IS LESS THAN 10
- FEET. NO LIMIT TO NUMBER OF DEVICES.

  2. UNLIMITED CONDUIT OR RACEWAY DROP TO AN INDIVIDUAL DEVICE.
- 3. UNLIMITED CONDUIT OR RACEWAY DROP TO A ROOM NOT EXCEEDING 1000 SQ, FT. NO LIMIT TO THE NUMBER OF DEVICES.

# RECORD DRAWINGS

AS-BUILT / RECORD DRAWING REQUIREMENTS:

THE FOLLOWING INFORMATION SHOULD BE RECORDED ON A SEPARATE SET OF DRAWINGS FOR EACH PROJECT:

- ANY CHANGES IN THE LOCATION OF ANY ASSOCIATED FIRE ALARM OR INTERFACE EQUIPMENT. CONTROL PANELS, ANNUNCIATORS, DETECTORS, CONTROL RELAYS, INPUT AND OUTPUT MODULES, TERMINAL CABINETS, FTC.
- 2. ANY CHANGES TO CIRCUIT WIRING. THIS INCLUDES DELETION OR ADDITIONAL WIRING RUNS. ANY RE-ROUTING OF CIRCUIT WIRING. ANY ADDITIONS OR DELETIONS TO THE NUMBER, LOCATION, AND ORDER OF DEVICE WIRING ON A CIRCUIT.
- ADDRESSES AND/ OR LABELS FOR ALL ADDRESSABLE DEVICES.
   CANDELA SETTINGS OF ALL VISUAL NOTIFICATION DEVICES.
- 5. WATTAGE TAP SETTINGS OF ALL SPEAKER NOTIFICATION DEVICES.

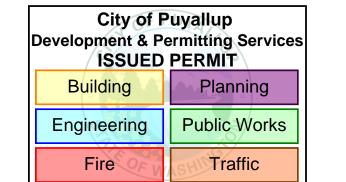
ANY CHANGES SHALL BE DISCUSSED WITH THE ADT PROJECT MANAGER TO ENSURE SYSTEM AND CODE PARAMETERS ARE MET. ADT COMMERCIAL SHALL NOT BE HELD ACCOUNTABLE FOR CHANGES MADE WITHOUT APPROVAL.

THIS INFORMATION SHALL BE NEAT AND LEGIBLE WHEN PRESENTED TO THE TECHNICIAN AT THE CONCLUSION OF THE PROJECT. PLEASE NOTE CONTACT INFORMATION ON DRAWINGS FOR INDIVIDUALS WITH FAMILIARITY OF INSTALLATION IN THE EVENT QUESTIONS ARISE DURING THE CLOSEOUT PROCESS.

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FIR	FIRE ALARM SYSTEM OPERATIONAL MATRIX																
		1	ALA	ARM	1	I		TRO	UBLE	1	SUPER	VISOR	<b>′</b>	REQ	UIRED	FUNCT	IONS
CAUSE	ALARM AT FACP	ALARM AT SUPERVISING STATION		ACTUATE ALL EVACUATION SIGNALS	ACTUATE SPRINKLER BELL			TROUBLE AT FACP	TROUBLE AT SUPERVISING STATION		SUPERVISORY AT FACP	SUPERVISORY AT SUPERVISING STATION		SHUTDOWN HVAC UNITS			
MANUAL PULL STATION	•	•		•													
AREA SMOKE DETECTORS	•	•		•										•			
WATERFLOW SWITCH	•	•		•	•												
TAMPER SWITCH											•	•					
AC POWER FAILURE								•	•								
FIRE ALARM SYSTEM LOW BATTERY, OPEN CIRCUIT, GROUND FAULT, NAC SHORT, GENERAL TROUBLE								•	•								





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CODES ADOPTED BY LOCAL AHJ
2019 NFPA 72 NATIONAL FIRE ALARM CODE
2018 INTERNATIONAL BUILDING CODE
2018 WA STATE ENERGY CODE

PROPOSED WAREHOUSE CIMCO SALES

# FIRE ALARM SYSTEM

BUILDING INFORMATION PROJECT ADDRESS: 2315 INTER AVENUE PUYALLUP, WA 98372

PROJECT MANAGER: Jason Streeter

PREPARED BY: L.B

CHECKED BY: H.S

DATE: 03-13-2024

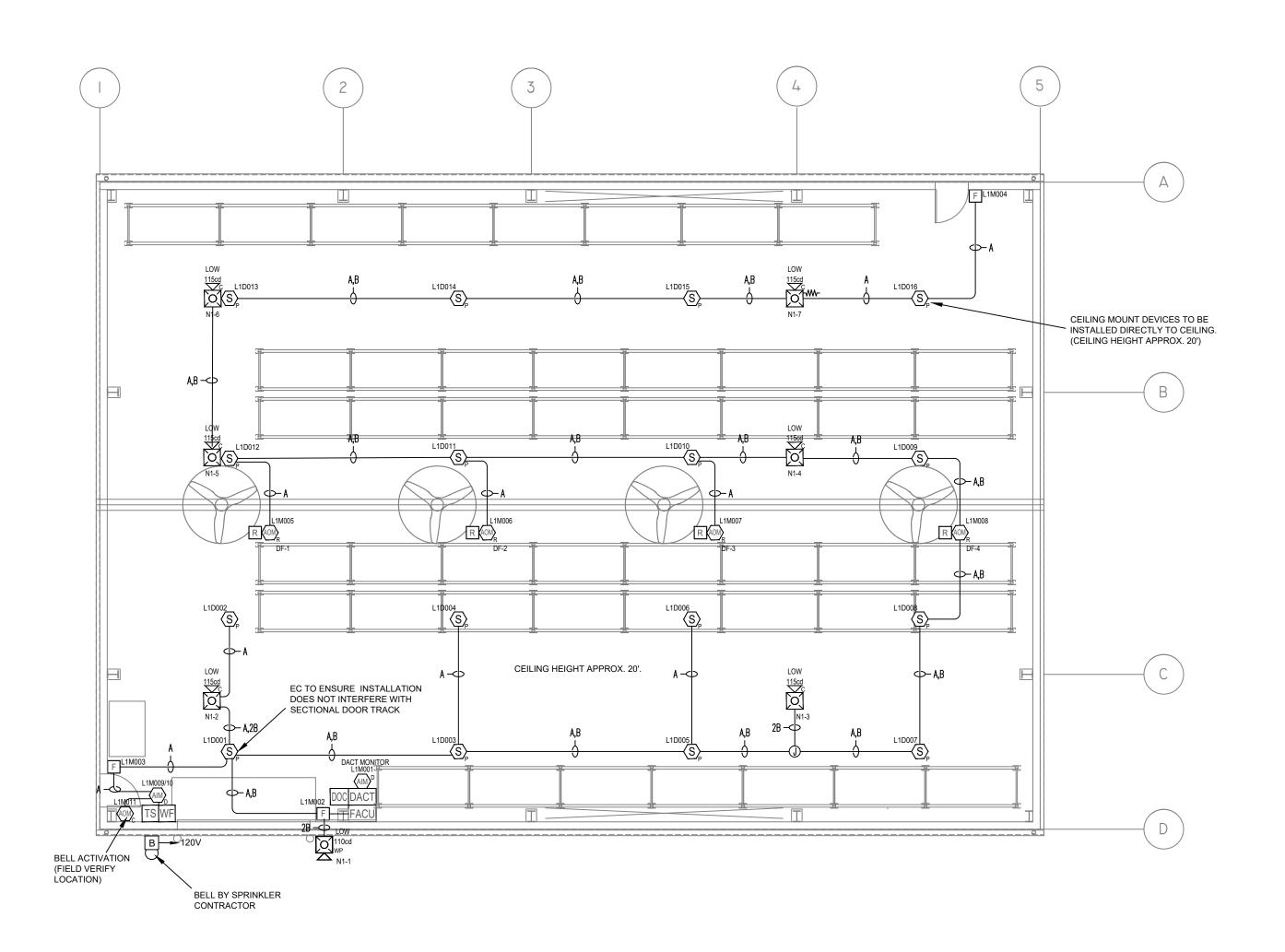
TITLE:

PROJECT NOTES

PROJECT NO:

FA-0-2

501716114



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FIRE ALARM PLAN - GROUND FLOOR

SCALE: 1/8"=1"

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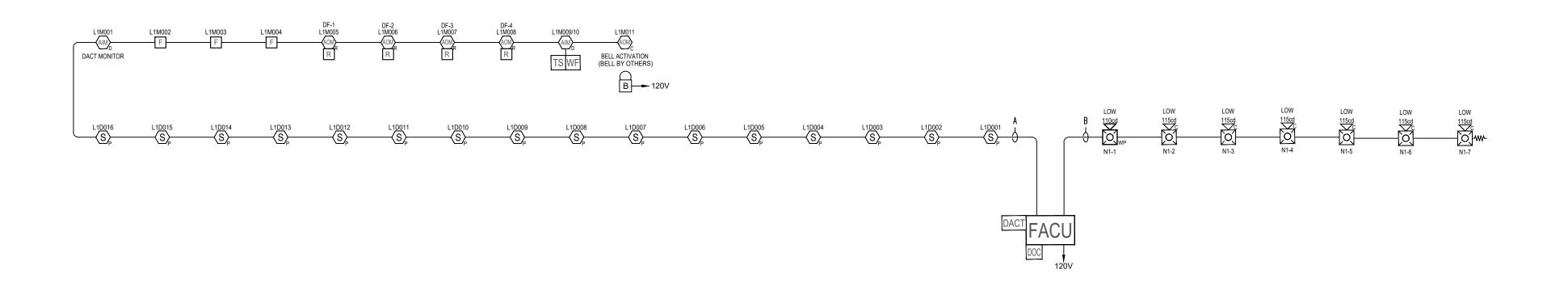
FIRE ALARM PLAN GROUND FLOOR

SHEET:

FA-1-1

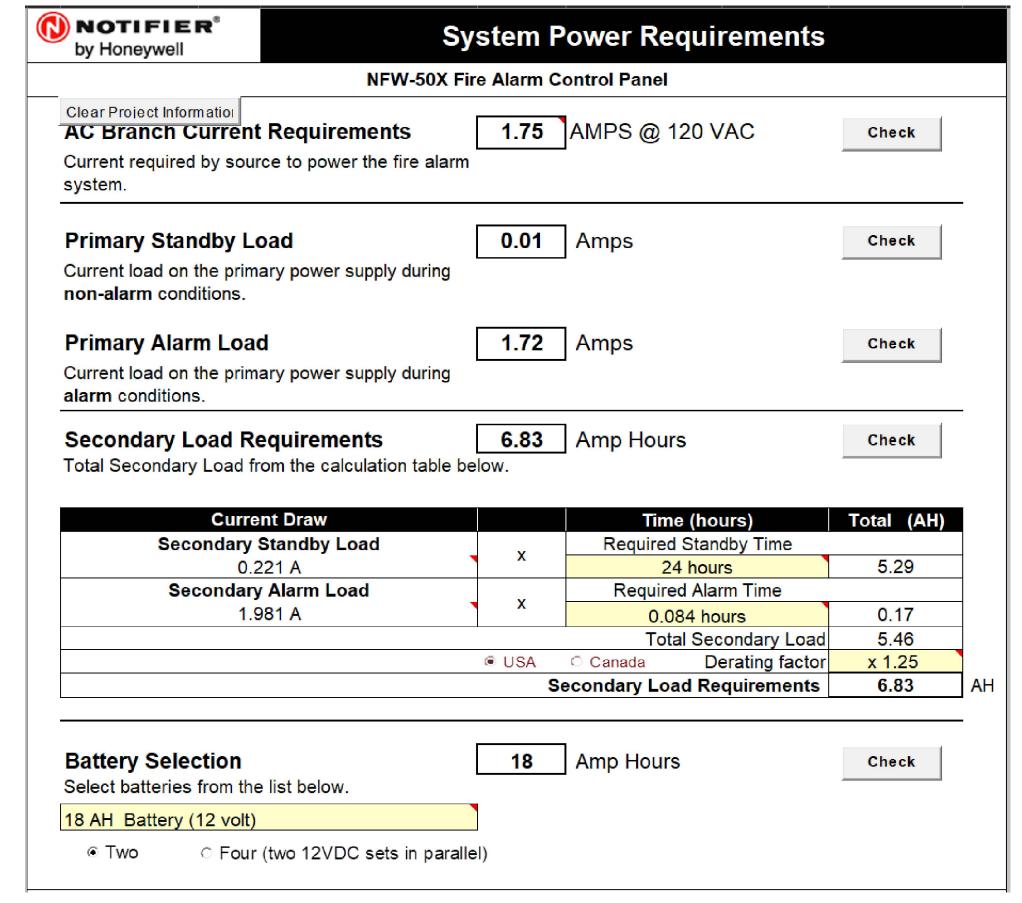
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**GROUND FLOOR** 

# CALCULATIONS



NOTIFIER® by Honeywell		Device Current Draw						
NFW-50X Fire Alarm Control Panel								
Quantity x [device current draw] = total current draw per device (in amps)								
Part Number	Qty	Primary Non-Alarm	Primary Alarm	Secondary Non-Alarm				
Main Circuit Board	1	× [0.00000] = 0.00000	× [0.00000] = 0.00000	× [0.14100] = 0.14100				
PC2WL115	6	x [0.00000] = 0.00000	x [0.18700] = 1.12200	x [0.00000] = 0.00000				
P2WK110	1	× [0.00000] = 0.00000	× [0.20200] = 0.20200	×[0.00000] = 0.00000				
FSP-951	16	x [0.00030] = 0.00480	× [0.00000] =	× [0.00030] = 0.00480				
FDM-1	2	x [0.00075] = 0.00150	× [0.00000] =	x [0.00075] = 0.00150				
NBG-12LX	3	x [0.00030] = 0.00090	× [0.00000] = 0.00000	x [0.00030] = 0.00090				
FCM-1	1	x [0.00039] = 0.00039	× [0.00000] =	x [0.00039] = 0.00039				
FRM-1	4	x [0.00025] = 0.00100	× [0.00000] =	x [0.00025] = 0.00100				
Max Alarm Draw - All Addressable Devices	1	x [0.00000] = 0.00000	x [0.20000] = 0.20000	x [0.00000] = 0.00000				
Starlink SLE-LTE Dialer	1	×[0.00000] = 0.00000	x [0.20000] = 0.20000	x [0.07100] = 0.07100				
T-t-1/A		0.0006.0	4 7240 A	0 220e A				
Total (Am	peres):	0.0086 A	1.7240 A	0.2206 A				
Part Number	Qty	Secondary Alarm						
Total Primary Alarm Load - C2	1	x [1.72400] = 1.72400						
Main Circuit Board	1	× [0.25700] = 0.25700						

1.9810 A

Total (Amperes):

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<b>VOLTAGE DROP CALCULATIONS</b>				
Pov	ver S	ource: FACU	N	
Voltage	at P	ower Supply:	20.400	
Resistance	of 1	000ft of Wire	3.140	
Circuit Nar	ne:	N1		
Device Type		Current (AMP)	Qty.	Total (AMP)
PC2WL 115cd Horn/Strobe (Ceiling)		0.187000	6	1.122
P2WK 110cd WP Horn/Strobe (Wall)		0.202000	1	0.202
Circuit N	V1 To	otal Current D	raw AMP:	1.324
Wire Length of	f Cir	cuit N1		
Distance From Power Supply to 1st Device	Α			10
Distance From 1st Device to Last Device	В			300
Weighted Wire Length C=(A+B)	/2			155
Voltage Drop o	f Ci	ircuit N1		
Voltage at Power Supply (Volt)			Α	20.400
Resistance of 1000ft of Wire (Ohm)			В	3.140
Weighted Wire Length (Ft)			С	155
Wire Resistance (Ohm)		D=(2xBx	C) / 1000	0.973
Circuit N1 Total Current Draw AMP		,	Е	1.324
Voltage Drop at the Last Device (Volt)			F=DxE	1.289
Voltage Drop Percentage		G=(F/A	) x 100	6.32%

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Engineering Public Works

Fire Traffic



600 Oakesdale Ave. SW Suite 100 Renton, WA 98057

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CODES ADOPTED BY LOCAL AHJ
2019 NFPA 72 NATIONAL FIRE ALARM CODE
2018 INTERNATIONAL BUILDING CODE
2018 WA STATE ENERGY CODE

PROPOSED WAREHOUSE CIMCO SALES

# FIRE ALARM SYSTEM

BUILDING INFORMATION PROJECT ADDRESS: 2315 INTER AVENUE PUYALLUP, WA 98372

PROJECT MANAGER:

Jason Streeter

\_\_\_\_\_

PREPARED BY:

CHECKED BY: H.S.

DATE: 03-13-2024

PROJECT NO: 501716114

TITLE:

FIRE ALARM
RISER DIAGRAM
AND CALCULATIONS

SHEET:

FA-2-1

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**OUT TO NAC DEVICES** 

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**OUT TO NAC DEVICES** 

**OUT TO SLC DEVICES** 

#### **SPECIFICATIONS**

### **Electrical Specifications**

AC Power: Operates in either 120 or 240 VAC, 50/60 Hz, 3.25 A, auto-sensing- no switch required. Wire size: minimum 14 AWG (2.00 mm2) with 600 V insulation. Nonpower-limited, supervised.

Battery: Two 12 V 18 AH lead-acid batteries. Battery Charger Capacity: 7-18 AH (FireWarden-100X cabinet holds maximum of two 18 AH batteries.)

### Communication Loop: Supervised and power-limited.

Notification Appliance Circuits:

Terminal Block provides connec-tions for four NACs, Style Y (Class B) or Style Z (Class A). Special Application power. Power-limited, supervised circuitry. Maximum signaling current per circuit: 2.5 amps special application, 250mA regulated. End-of-Line Resistor: 4.7k ohm, ½ watt (P/N 71252 UL listed) for Style Y (Class B) NAC; system capable of 1.9 kΩ - 22 kΩ ELR range. Refer to the NOTIFIER Device Compatibility Document for listed compatible devices.

Two Programmable Relays and One Fixed Trouble Relay: Con-tact rating: 2.0 A @ 30 VDC (resistive), 0.5 A @ 30 VAC (resistive). Form-C relays, non-power-limited, non-supervised.

### Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.72" (1.82 cm.) deep. Backbox: 19.00" (48.26 cm.) high x 16.65" (42.29 cm.) wide x 5.25" (13.34 cm.) deep. Trim Ring (TR-CE/B): 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

# Temperature and Humidity Ranges

This system meets NFPA requirements for operation at  $0-49^{\circ}\text{C}/32-120^{\circ}\text{F}$  and at a relative humidity  $93\% \pm 2\%$  RH (noncondensing) at  $32^{\circ}\text{C} \pm 2^{\circ}\text{C}$  ( $90^{\circ}\text{F} \pm 3^{\circ}\text{F}$ ). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of  $15-27^{\circ}\text{C}/60-80^{\circ}\text{F}$ .

## Addressable Device Accessories

End-of-Line Resistor Assembly (R-47K and R-3.9K): The
47kohm assembly supervises the NMM-100-10, NDM-100, NMM100P, and NC-100 module circuits. The 3.9kohm assembly super-vises
the NZM-100-6 module circuit. These resistors are included
with each module.

Power Supervision Relay: Supervises the power to 4-wire smoke detectors and notification appliances.

#### Wiring Requirements

While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interfer-ence.

Refer to the panel manual for wiring details.

NFPA Standards

The FireWarden-50X complies with the following NFPA 72 Fire

Alarm Systems requirements:
- LOCAL (Automatic, Manual, Waterflow and Sprinkler Supervi—sory).—AUXILIARY

(Automatic, Manual and Waterflow) (requires

4XTM). - REMOTE STATION (Automatic, Manual and Waterflow)

(Where a DACT is not accepted, the alarm, trouble and supervi-sory

relays may be connected to UL 864 listed transmitters. For

reverse polarity signaling of alarm and trouble, 4XTM is

requirea.) — PROPRIETARY (Automatic, Manual and Waterflow).

- CENTRAL STATION (Automatic, Manual and Waterflow, and

Sprinkler Supervised).

-OT, PSDN (Other Technologies, Packet-switched Data Net-work)-IBC 2012, IBC 2009, IBC 2006, IBC 2003, IBC 2000 (Seismic).

- CBC 2007 (Seismic)

### Agency Listings and Approvals

The listings and approvals below apply to the basic FireWarden-100X control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

•UL: S635

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Building Planning
Engineering Public Works
Fire Traffic

City of Puyallup



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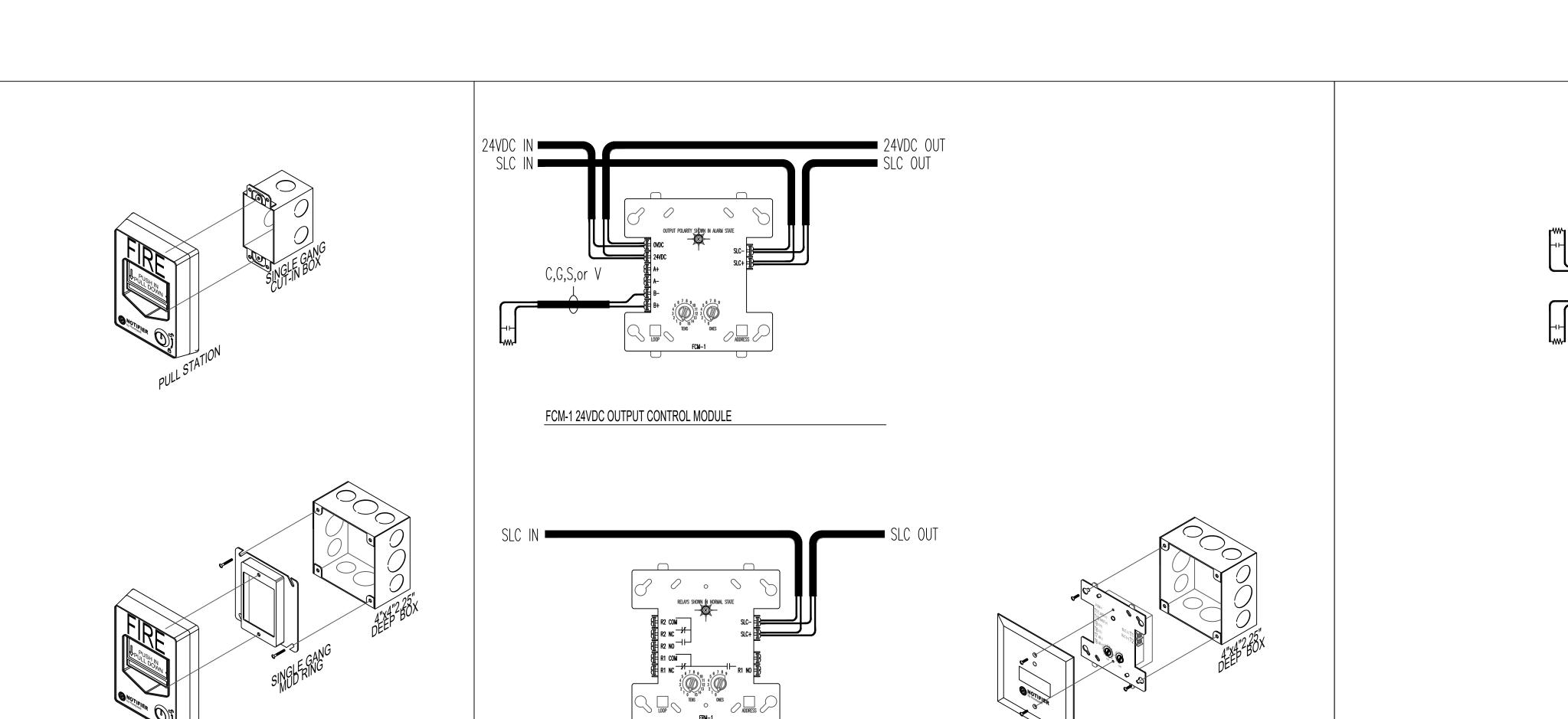
FIRE ALARM
PANEL DETAILS

501716114

FA-3-1

NFW-50X PANEL DETAILS

FOR REFERENCE ONLY. REFER TO INSTALLATION MANUAL FOR COMPLETE DETAILS.



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NBG-12LX PULL STATION W/ BACKBOX & MOUNTING ISOMETRICS

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MOUNTING BOX (	MOUNTING BOX OPTIONS							
2-WIRE INDO		WIRE INDOOR PRODUCTS	K SERIES PRODUCTS					
4 X 4 X 1-1 SINGLE GANG DOUBLE GAN 4" OCTAGON	G, DC	4 X 1-1/2, OUBLE GANG, " OCTAGON	SA-WBB/ W (WALL), SA-WBBC/ CW (CEILING)					

NBG-12LX PULL STATION

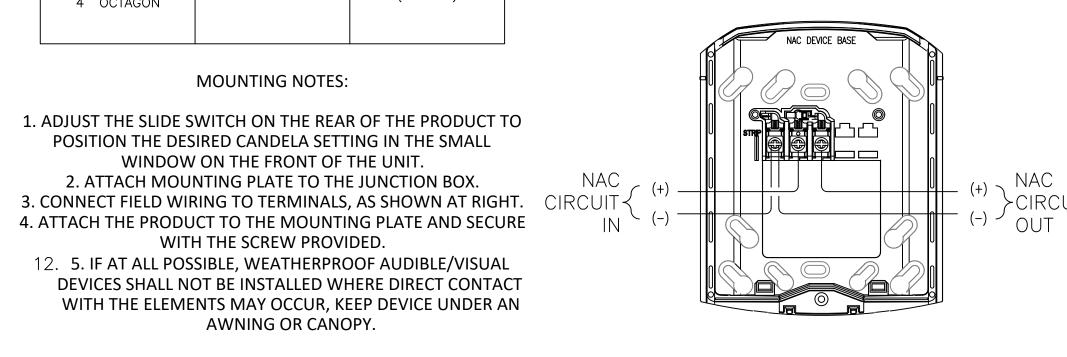
### **MOUNTING NOTES:**

1. ADJUST THE SLIDE SWITCH ON THE REAR OF THE PRODUCT TO POSITION THE DESIRED CANDELA SETTING IN THE SMALL WINDOW ON THE FRONT OF THE UNIT. 2. ATTACH MOUNTING PLATE TO THE JUNCTION BOX.

WITH THE SCREW PROVIDED. 12. 5. IF AT ALL POSSIBLE, WEATHERPROOF AUDIBLE/VISUAL DEVICES SHALL NOT BE INSTALLED WHERE DIRECT CONTACT WITH THE ELEMENTS MAY OCCUR, KEEP DEVICE UNDER AN

NAC DEVICE INSTALLATION DETAIL

AWNING OR CANOPY.



BACKBOX & MOUNTNG OPTION ISOMETRICS

DETECTOR BASE & BACKBOX MOUNTING ISOMETRICS

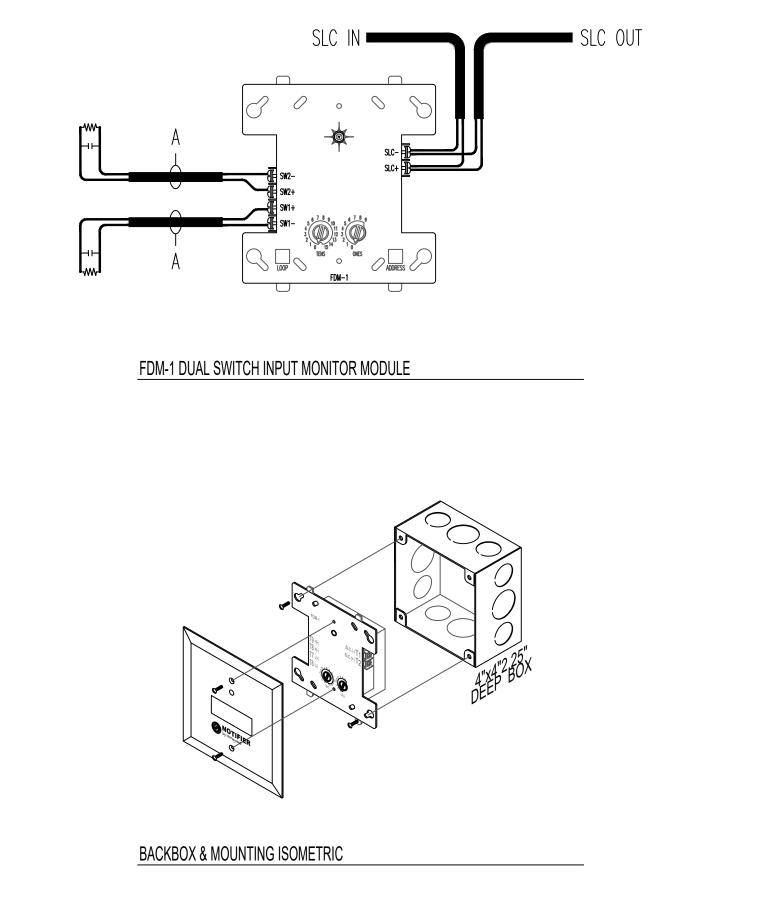
B300-6 BASE

FRM-1 DUAL FORM-C RELAY CONTROL MODULE

SCALE: NONE

BOX MOUNTING IN SHEETROCK OR PLASTER TYPE

CEILINGS (MUST BE INSTALLED WITH CONDUIT)



FDM-1 MONITOR MODULES w/ BACKBOX & MOUNTING ISOMETRICS

/SCALE: NONE

City of Puyallup **Development & Permitting Services** Engineering



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PROJECT MANAGER: Jason Streeter

PREPARED BY: CHECKED BY: 03-13-2024 DATE:

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**DEVICE WIRING DETAILS** 

501716114

FA-4-1

FOR REFRENCE ONLY. REFER TO PRODUCT MANUALS FOR COMPLETE INFORMATION.

BACKBOX & MOUNTING ISOMETRIC

BOX MOUNTING IN LIFT OUT OR INTERLOCKING TYPE

CEILINGS WITH SYSTEMS INSTALLED IN CONDUIT

SETTING SLC ADDRESS (ROTARY DIALS)

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).

FCM-1 24VDC OUTPUT CONTROL & FRM-1 RELAY MODULES w/ BACKBOX & MOUNTING ISOMETRIC

BOX MOUNTING IN LIFT OUT OR INTERLOCKING TYPE

CEILINGS FOR SYSTEMS WITH CABLE INSTALLED IN PLENUM

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.

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.