

**GENERAL SYSTEM NOTES**

PANEL:

- THE SUPPLEMENTAL NOTIFICATION REMOTE POWER SUPPLY (RPS) IS TO BE MOUNTED SURFACE, BESIDE THE FACP. THE TOP OF THE PANEL SHALL NOT EXCEED 6 FEET ABOVE FINISHED FLOOR SURFACE. A MINIMUM CLEARANCE OF 36" WORKING SPACE SHALL BE MAINTAINED.
- THE RPS IS TO BE POWERED BY THE SAME DEDICATED 120 VAC CIRCUIT AS THE FACP. TWO CONDUCTORS TO 120 VAC, ONE CONDUCTOR TO ISOLATED GROUND, 20 AMP DEDICATED CIRCUIT. A HOUSE GROUND WILL NOT BE ACCEPTABLE.
- THE BOTTOM THE RPS SHALL BE PENETRATED.

DEVICES:

- ALL SIGNALING DEVICES SHALL HAVE THE BOTTOM OF THE DEVICE PLACED AT 80 INCHES ABOVE FINISHED FLOOR WITHIN THE SPACE, OR THE TOP OF THE DEVICE 6 INCHES BELOW THE CEILING, WHICHEVER IS LOWER.
- THE AUDIBLE DEVICES SIGNAL SHALL BE SET TO THE TEMPORAL SETTING.
- ALL DEVICES ARE TO BE LOCATED PER THE DRAWINGS.
- WHEN APPLICABLE, VERIFY WITH MECHANICAL CONTRACTOR THE EXISTENCE AND LOCATION OF ALL MOTORIZED SMOKE DAMPERS. THESE ARE TO BE 120 VAC DEVICES ON AS FEW CIRCUITS AS POSSIBLE. THESE DEVICE CIRCUITS ARE TO BE CONTROLLED BY THE FACP THROUGH AN INTERFACING RELAY.
- WHEN APPLICABLE, VERIFY WITH SPRINKLER CONTRACTOR ALL LOCATIONS OF THE SPRINKLER WATERFLOW, DRY FLOW, HI/LO AIR, TAMPER SWITCHES AND PIV OR O, S, & Y VALVES.
- WHEN APPLICABLE, VERIFY WITH SPRINKLER CONTRACTOR THE EXISTENCE OF SPRINKLER HEAT TAPE. THIS HEAT TAPE SHALL BE MONITORED BY THE FACP AND SHALL REQUIRE AN APPROPRIATE RELAY THAT WILL PROVIDE SUPERVISION FOR HEAT TAPE GROUND FAULTS AND LOSS OF PRIMARY POWER.
- WHEN APPLICABLE, VERIFY WITH SPRINKLER CONTRACTOR THAT ALL APPLICABLE INTERSTITIAL CEILING, ATTIC, OR FLOOR SPACES ARE PROTECTED WITH SPRINKLER HEADS.

WIRING:

- TWO DEDICATED PHONE LINES TO BE INSTALLED BY OWNER TO TRANSMITTER.
- ALL AUDIBLE / VISUAL CIRCUITS ARE TO BE 14 AWG FPL WIRE. (RISER OR PLENUM RATED WIRE WHERE REQUIRED PER NEC).
- AUDIBLE / VISUAL CIRCUITS ARE TO HAVE AN END OF LINE RESISTOR (ELR) AS APPROPRIATE WITH THE FACP / RPS.
- ALL FIRE ALARM WIRES ARE REQUIRED TO BE IDENTIFIED AND APPROPRIATELY MARKED.
- PER NEC, NO AC VOLTAGE WIRING OF ANY KIND SHALL BE RUN IN THE SAME CONDUIT OR RISER AS THE LOW VOLTAGE FIRE ALARM SYSTEM WIRING.
- ALL JACKETED CABLE MUST INCLUDE A JACKET REMOVAL PULL STRING AS PART OF THE CABLE.
- SHIELDED CABLE IS NOT AN ACCEPTABLE SUBSTITUTION FOR CABLE WITHOUT "SHIELDED" AS PART OF THE DESCRIPTION.

GENERAL:

- ALL FIRE ALARM JUNCTION BOXES ARE TO BE PAINTED RED.
- ALL END OF LINE DEVICES SHALL HAVE AN IDENTIFYING E.O.L. STICKER AT THE E.O.L. LOCATION.
- ONLY CONDUCTORS INTENDED FOR TERMINATION TO THE SPECIFIC DEVICE ON ANY GIVEN JUNCTION BOX SHALL BE LEFT OPEN FOR TERMINATION IN THAT JUNCTION BOX. ALL OTHER CONDUCTORS SHALL PASS THROUGH, OR BE SPLICED THROUGH, THAT JUNCTION BOX.

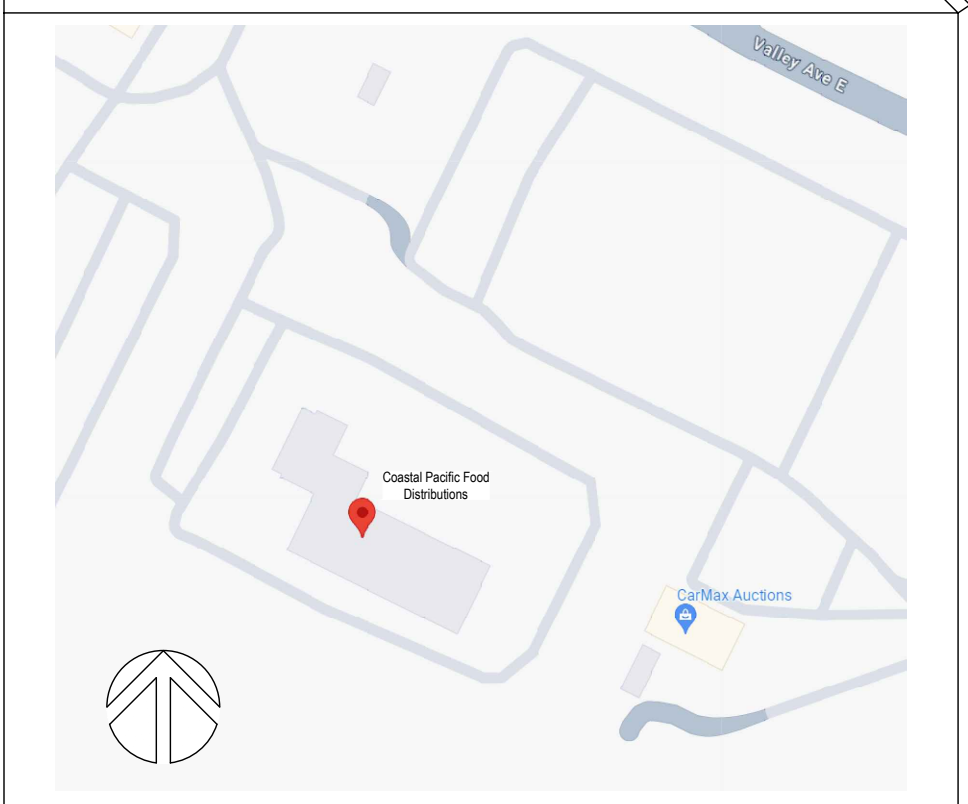
**WARRANTY**

ALL EQUIPMENT AND LABOR PROVIDED BY ABSCO SOLUTIONS, INC. HAS A WARRANTY OF ONE YEAR FROM DATE OF INVOICE. THIS WARRANTY EXCLUDES ALL COVERAGE FOR CONSEQUENTIAL DAMAGES, AND IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES OR IMPLIED WARRANTIES OF FITNESS, HABITABILITY, OR MERCHANTABILITY OTHERWISE PROVIDED UNDER THE LAWS OF WASHINGTON. ANY WARRANTY WORK PERFORMED BY ABSCO SOLUTIONS, INC. DOES NOT EXTEND THE WARRANTY OF ONE YEAR FROM THE DATE OF THE INVOICE.

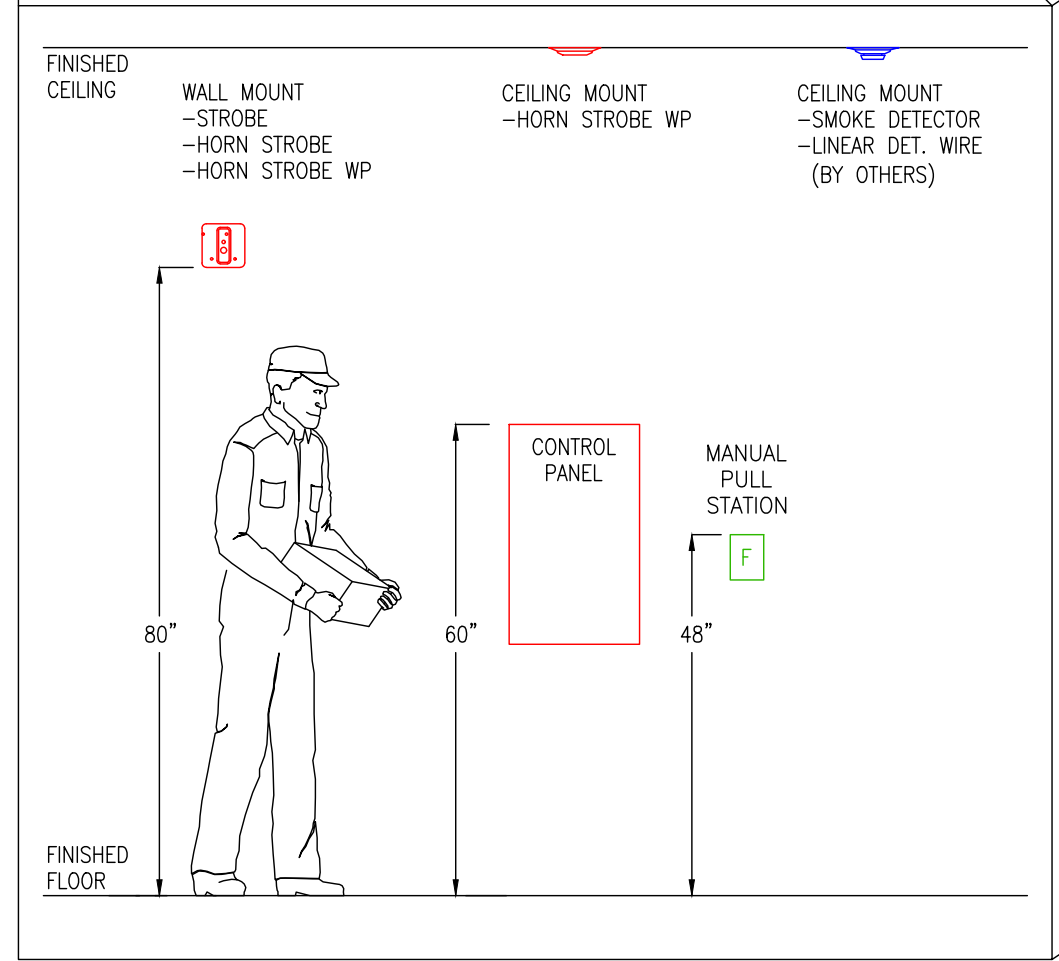
THIS WARRANTY SHALL BE VOID IF A PERSON OR FIRM OTHER THAN ABSCO SOLUTIONS, INC. OR THE CONTRACTOR AUTHORIZED BY ABSCO SOLUTIONS, INC. PERFORMS OR RE-PERFORMS ANY WORK IDENTIFIED WITHIN THE ORIGINAL SCOPE OF THE WORK OF THE CONTRACT WITH ABSCO SOLUTIONS, INC.

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**VICINITY MAP**



**TYPICAL MOUNTING HEIGHTS**

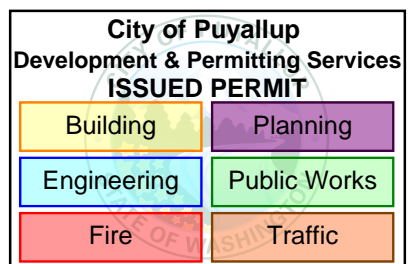


Read Permit Conditions prior to calling for inspection.

**City of Puyallup Fire REVIEWED FOR COMPLIANCE**  
 DDrake  
 03/10/2025  
 11:27:31 AM

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.

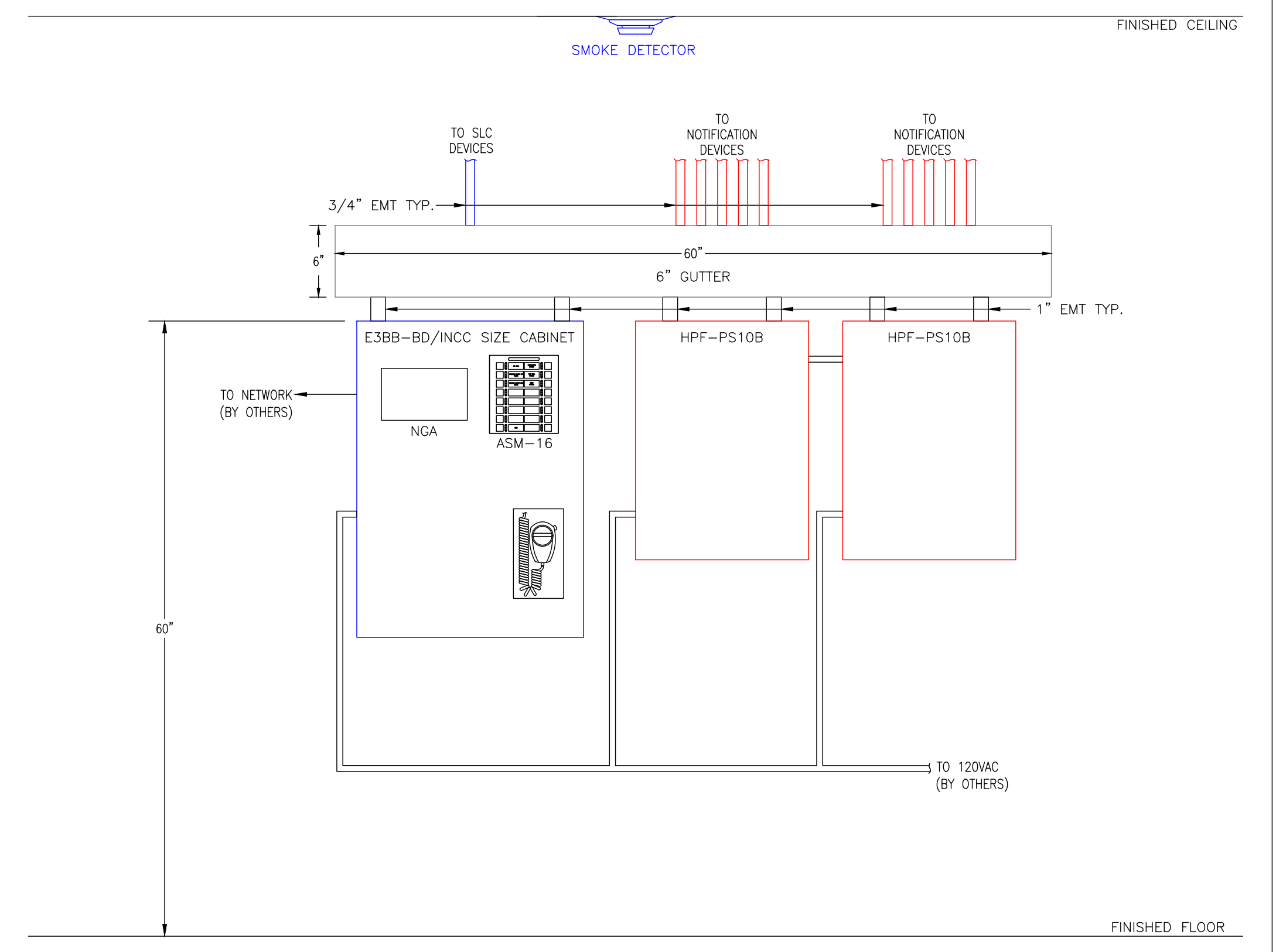


Linear Wire is used in all freezer areas instead of smoke detection.

**SEQUENCE OF OPERATIONS**

Alarm Device	Output Activated					
	General Notification - Alarm Horn + Horn Strobe + Strobe	Transmit Alarm Signals	Transmit Trouble Signals at FACP	Transmit Supervisory Signals at FACP	HVAC Shutdown	Keypad Annunciator
Smoke Detector	X	X				X
Linear Det. Wire (By Others)	X	X			X	X
Manual Pull Station	X	X				X
FACP Alarm	X	X				X
FACP Trouble			X			X
FACP Supervisory				X		X
Water Flow Supervisory				X		X
Water Flow Alarm	X	X				X
Water Flow Tamper Switch	X	X				X

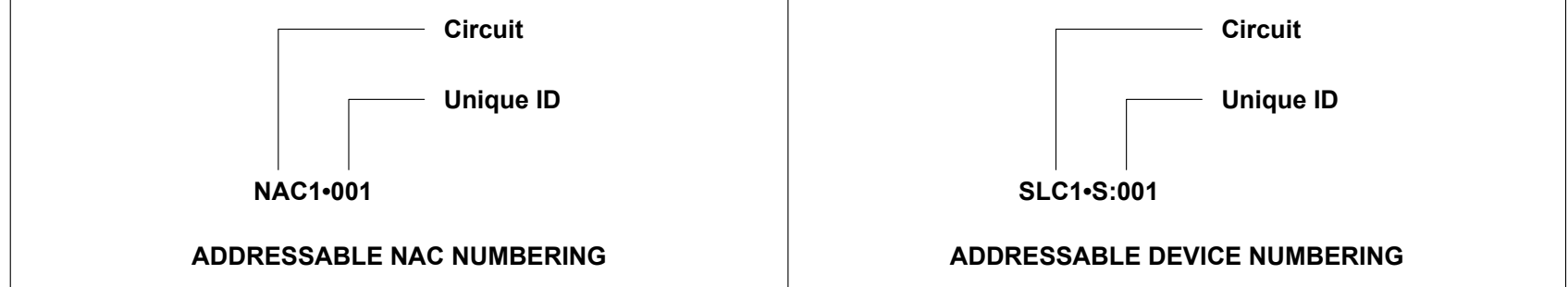
**PANEL DETAIL - EXISTING VESTIBULE**



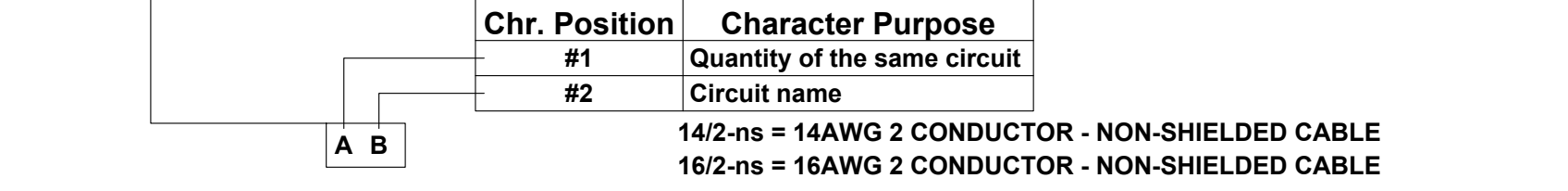
**Symbol Legend**

SYMBOL	DESCRIPTION	MANUFACTURER	PART NUMBER	BACKBOX REQUIREMENTS	QUANTITY
[FACP]	E3 CLASSIC W/ILI-MB-E3 + CLSS GATEWAY + VERIZON MODULE	GAMEWELL-FCI	E3-CLSS-KIT-V	E3BB-BD/INCC, BLACK ENCLOSURE	1
[RPS#]	10AMP, 120VAC REMOTE CHARGER POWER SUPPLY	HONEYWELL	HPF-PS10B	BLACK ENCLOSURE, PROVIDED	2
[S <sub>pc</sub> ]	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	GAMEWELL FCI	ASD-PL3	B300-6 / 4SQR W / 3-O RING	43
[S <sub>i</sub> ]	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	GAMEWELL FCI	ASD-LS3	B300-6 / 4SQR W / 3-O RING	12
[F]	PULL STATION, DOUBLE ACTION, ADDRESSABLE	GAMEWELL FCI	MS-7AF	DEEP 4-SQR	3
[AOM]	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE	GAMEWELL FCI	AOM-2RF	DEEP 4-SQR	1
[MMI]	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE	GAMEWELL FCI	MMI-10F	MBB-2	3
[AMM]	DUAL MONITOR MODULE, ADDRESSABLE	GAMEWELL FCI	AMM-2I	DEEP 4-SQR	3
[RTS]	REMOTE TEST STATION WITH ALARM LED	GAMEWELL FCI	RTS451	PROVIDED	14
[GTS]	TAMPER SWITCH	GENERIC	GTS	PROVIDED	12
[GWF]	WATERFLOW SWITCH	GENERIC	GWF	PROVIDED	12
[MB]	MOTOR BELL, 24VDC, 10 INCH, RED	COOPER WHEELLOCK	MB-G10-24-R	DOUBLE GANG	2
[PC2WK]	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR	SYSTEM SENSOR	PC2WK	DEEP 4-SQR	15
[SWL]	L-SERIES STROBE, WHITE, WALL	SYSTEM SENSOR	SWL	DOUBLE GANG	10
[P2WL]	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL	SYSTEM SENSOR	P2WL	DOUBLE GANG	19
[P2WK]	HORN STROBE, WHITE, WALL, OUTDOOR	SYSTEM SENSOR	P2WK	PROVIDED	1
[EOL-4.7K]	EOL-4.7K	GAMEWELL FCI	EOL-4.7	PROVIDED	8

**Fire Alarm Device Numbering**



**Wire Path Label Legend**



**PROJECT NOTES**

- EXISTING DEVICES WILL BE REPLACED ON A LIKE-FOR-LIKE BASIS AS APPROPRIATE
- ALL DATA CABLING PROVIDED BY OTHERS, PROVIDE RACKWAYS ONLY
- SYSTEMS SUCH AS SECURITY, FIRE ALARM, CONTROLS, ETC. ARE NOT PART OF THE ELECTRICAL ENGINEERING SCOPE
- TECHNICIAN TO AS-BUILD DEVICE ADDRESSES, NOTIFICATION DEVICES AND CABLING
- AMBIENT TEMPERATURE 70°F IN ALL SPACES
- AMBIENT SOUND LEVEL >40DB IN ALL SPACES

**PROJECT DATA**

PROJECT SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES, STANDARDS, REGULATIONS, AND LOCAL AUTHORITIES, INCLUDING BUT NOT LIMITED TO THE 2021 WASHINGTON STATE BUILDING CODE, 2021 WASHINGTON STATE FIRE CODE AND 2021 WASHINGTON STATE ENERGY CODE.

PARCEL NO. 0420215009  
 CONSTRUCTION CLASSIFICATION: TYPE II-B (§602.2)

OCCUPANCY CLASSIFICATIONS:  
 GROUP B - BUSINESS (§304.1)  
 GROUP S-1 - MODERATE HAZARD STORAGE (§311.2)  
 NON-SEPARATED, MIXED USE (IBC §508.3)

SPRINKLER SYSTEM: FULLY SPRINKLERED SYSTEM COMPLYING WITH NFPA 13.

BUILDING AREA: 19,873 SQ.FT. (EXISTING)  
 43,342 SQ.FT. (PROPOSED ADDITION)  
 63,220 SQ.FT. (TOTAL)

BUILDING HEIGHT: 45.06 FT. PLUS AVG. GRADE DEPTH - 1 STORY

ALLOWABLE AREA: 70,000 SQ.FT./STORY (T506.2)  
 ALLOWABLE HEIGHT: 75.00 FT. - 4 STORIES (T504.3 & T504.4)

BUILDING ELEMENT FIRE RESISTANCE RATINGS: 0 HOURS (T601 & T705.5)

OCCUPANCY LOAD (T1004.1.2):  
 BUSINESS AREA: 4,160 SQ.FT. / 150 SQ.FT. = 28 OCCUPANTS  
 STORAGE AREA: 59,060 SQ.FT. / 500 SQ.FT. = 118 OCCUPANTS  
 TOTAL: = 146 OCCUPANTS

MINIMUM PLUMBING FIXTURES (§2902.1, T2902.1, & §2902.5.1):  
 GROUP B (MALE/FEMALE OCCUPANT LOAD = 14 EACH):  
 WATER CLOSETS = 1 MALE - 1 FEMALE  
 LAVATORIES = 1 MALE - 1 FEMALE

GROUPS S-1 (MALE/FEMALE OCCUPANT LOAD = 59 EACH):  
 WATER CLOSETS = 1 MALE - 1 FEMALE  
 LAVATORIES = 1 MALE - 1 FEMALE

DRINKING FOUNTAINS = 1  
 SERVICE SINKS = 1

EXIT ACCESS TRAVEL DISTANCE (T1017.2):  
 GROUP B: 300 FT.  
 GROUPS S-1: 250 FT.

COMMON PATH OF TRAVEL: 100 FT. (T1006.2.1)

DEAD END CORRIDOR: 50 FT. (§1020.5-EXC. 2)

FIRE EXTINGUISHERS: 75 FT. MAXIMUM TRAVEL DISTANCE (T906.3(1))

ENVELOPE ENERGY CODE COMPLIANCE PATH: TRADE-OFF ANALYSIS PER 2021 WASHINGTON STATE ENERGY CODE REQUIREMENTS

Firm Name and Address  
**Abasco Solutions**  
 P.O. BOX 2246  
 LYNNWOOD, WA 98036  
 PH: 425.771.1166  
 FAX: 425.771.4422  
 www.abscosolutions.com

Project Name and Address  
**COASTAL PACIFIC FOOD DIST. FREEZER EXPANSION**  
 322 VALLEY AVENUE, NW  
 PUYALLUP, WA. 98371

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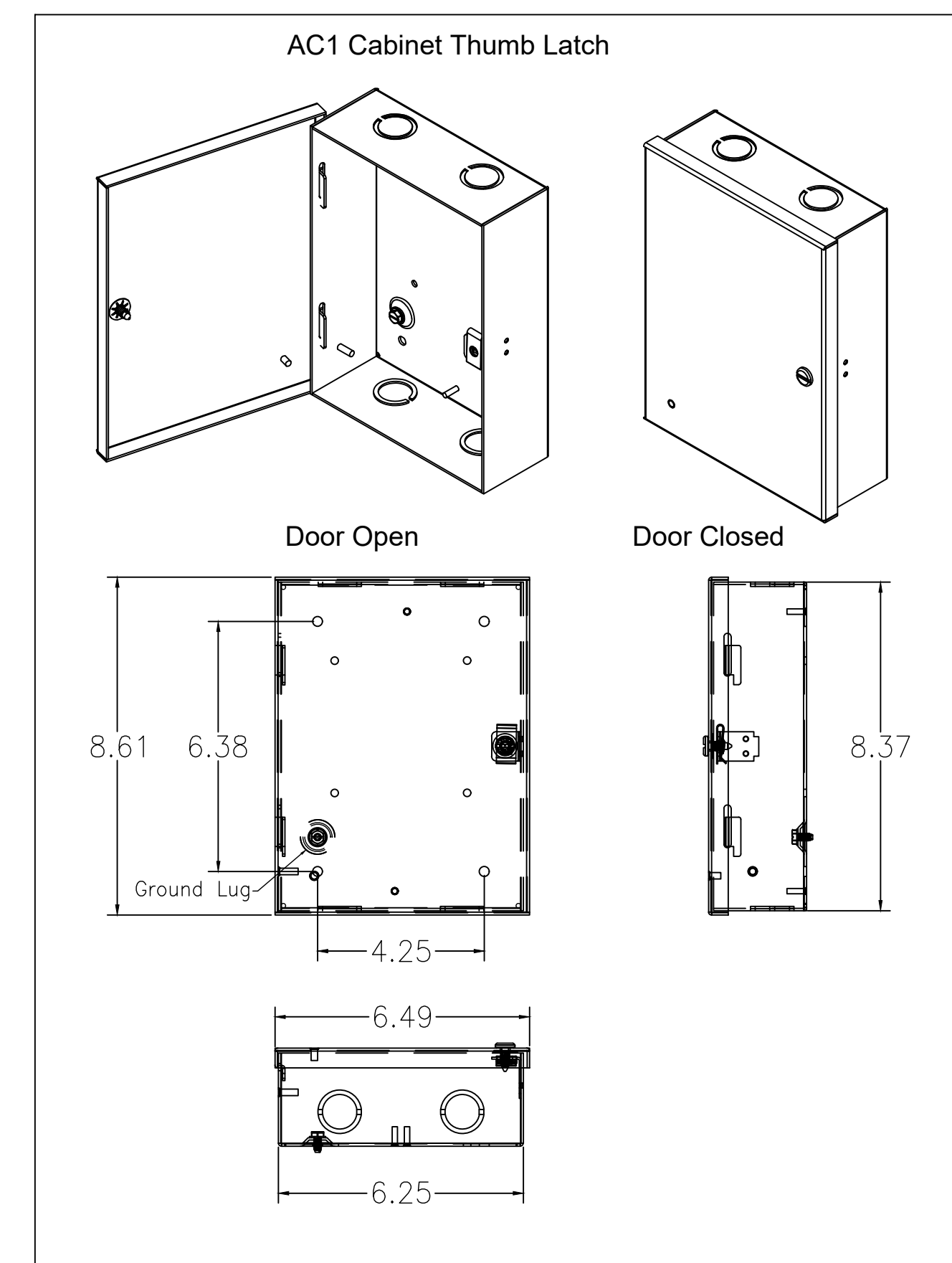
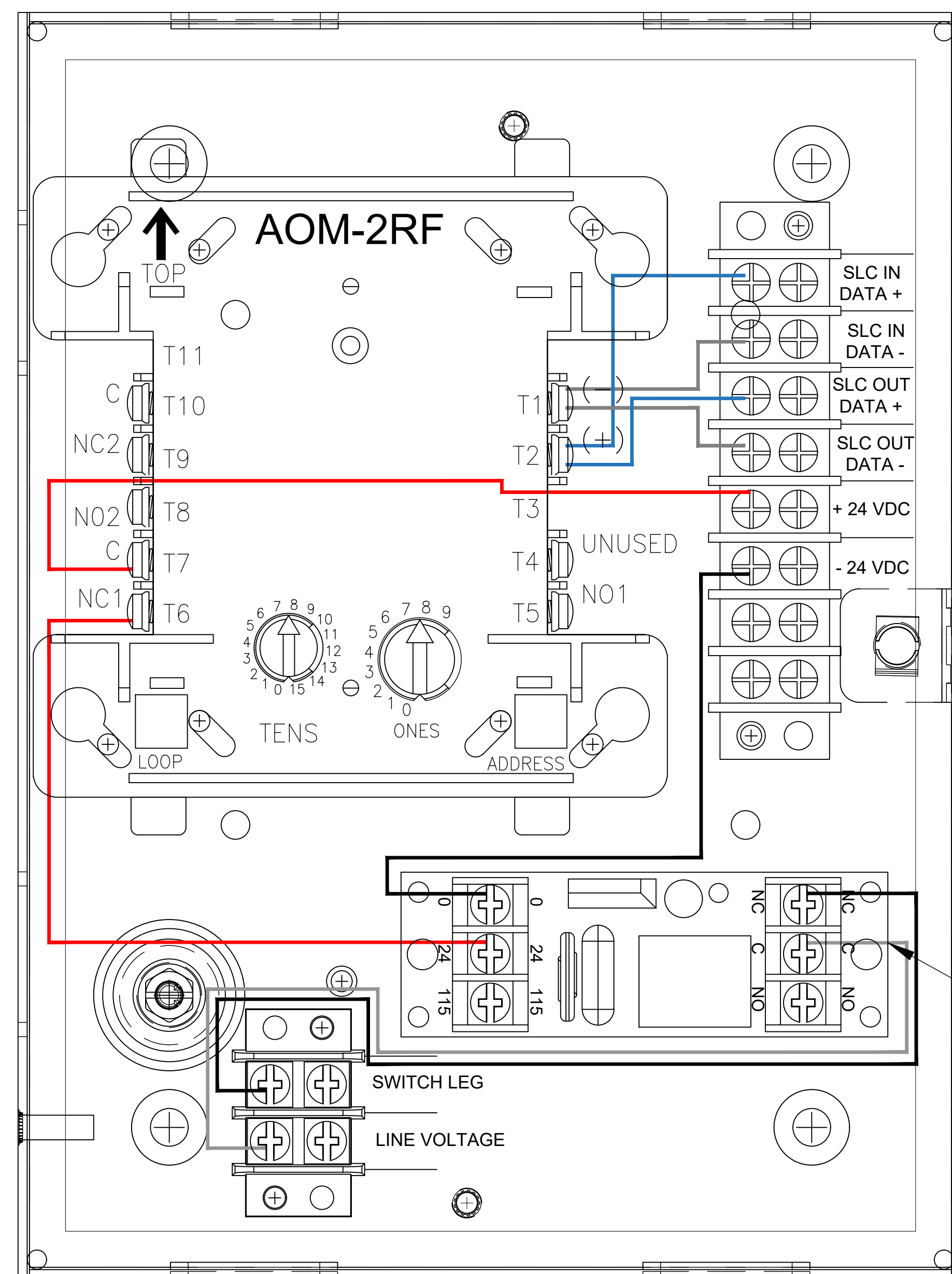
1-02/26/25	Submital Set	AP
Rev.#-Date	Revision	By
Drawn By	A.P.	
Checked By	D.H.	
Date	07/16/24	
Project Name	EVELER FREEZER EXPANSION	
Project Number	26412	

System Type  
**FIRE ALARM**

Sheet Name  
**LEGENDS, DETAILS, FIRE ALARM PLANS**

Sheet Number  
**FZ001**

SHEET 1 OF 19



MOUNT TO BACKPLATE WITH STANDOFF

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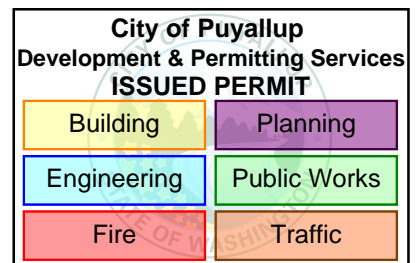
1-02/26/25	Submittal Set	AP
Rev.#-Date	Revision	By

Drawn By	A.P.
Checked By	D.H.
Date	07/16/24
Project Name	EVELER FREEZER EXPANSION
Project Number	26412

System Type  
**FIRE ALARM**

Sheet Name  
**VS000645  
DETAIL**

Sheet Number  
**FZ002**



Firm Name and Address  
**Abasco Solutions**  
 P.O. BOX 2246  
 LYNNWOOD, WA 98036  
 PH: 425.771.1166  
 FAX: 425.771.4422  
 www.abascosolutions.com

**Cable/Circuit Report**

Job number: 26412 Job name: Eveler Freezer Expansion - FA  
 Cable Length Overage: 10.000000%

Source	Circuit	Circuit Type	Wiring Style	Manufacturer	Part No.	Type	Description	Gauge	Length	Color
FACP	AUX2	Power	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	1084'-10 1/2	Light Green
FACP	C1	Relay	Class B	GENESIS (HONEYWELL CABLE)	43141004	Fire Alarm	14/4 SOL JKT FPLR 1M RL RED	#14	3'-2	Light Blue
FACP	SLC1	Signaling line	Class B	WINDY CITY	761360	Fire Alarm	16 AWG 2 CONDUCTOR BARE COPPER TWISTED NON-SHIELDED PLENUM FA FPLP	#16	1828'-3	Dark Blue
RPS2	NAC1	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	376'-7 1/2	Red
RPS2	NAC2	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	388'-8 1/2	Red
RPS2	NAC3	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	393'-10 1/2	Red
RPS2	NAC4	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	406'-2 1/2	Red
RPS2	NAC5	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	548'-5	Red
RPS1	NAC1	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	222'-4 1/2	Red
RPS1	NAC2	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	339'-6 1/2	Red
RPS1	NAC3	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	329'-4	Red
RPS1	NAC4	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	407'-5 1/2	Red
RPS1	NAC5	Notification	Class B	WINDY CITY	767960	Fire Alarm	14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP	#14	228'-0 1/2	Red

**Appliance List  
Notification Devices**

Job number: 26412 Job name: Eveler Freezer Expansion - FA

Panel Name	Circuit	Address	Device	Part Number	Description
	LED1	[SLC1-S:009]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:011]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:013]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:015]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:017]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:019]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:021]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:023]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:025]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:027]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:029]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:031]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:033]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
	LED1	[SLC1-S:035]	REMOTE TEST	RTS451	REMOTE TEST STATION WITH ALARM LED
RPS1	NAC1	001	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC1	002	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC1	003	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS1	NAC1	004	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC1	005	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC1	006	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC1	007	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC1	008	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS1	NAC1	009	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS1	NAC1	010	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC1	011	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS1	NAC1	012	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC1		END OF LINE	EOL-4.7	EOL-4.7K
RPS1	NAC2	001	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC2	002	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC2	003	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC2	004	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC2	005	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS1	NAC2	006	HORN STROBE	P2WK	HORN STROBE, WHITE, WALL, OUTDOOR
RPS1	NAC2		END OF LINE	EOL-4.7	EOL-4.7K
RPS1	NAC3	001	BELL	MB-G10-24-R	MOTOR BELL, 24VDC, 10 INCH, RED
RPS1	NAC4	001	BELL	MB-G10-24-R	MOTOR BELL, 24VDC, 10 INCH, RED
RPS1	NAC5	001	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS1	NAC5	002	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS1	NAC5	003	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS1	NAC5		END OF LINE	EOL-4.7	EOL-4.7K
RPS2	NAC1	001	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS2	NAC1	002	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC1	003	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS2	NAC1	004	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS2	NAC1	005	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC1	006	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC1	007	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS2	NAC1		END OF LINE	EOL-4.7	EOL-4.7K
RPS2	NAC2	001	HORN/STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC2	002	HORN/STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC2	003	HORN/STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC2	004	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS2	NAC2		END OF LINE	EOL-4.7	EOL-4.7K
RPS2	NAC3	001	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC3	002	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC3	003	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC3	004	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS2	NAC3		END OF LINE	EOL-4.7	EOL-4.7K
RPS2	NAC4	001	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC4	002	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC4	003	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC4		END OF LINE	EOL-4.7	EOL-4.7K
RPS2	NAC5	001	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC5	002	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC5	003	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS2	NAC5	004	STROBE	SWL	L-SERIES STROBE, WHITE, WALL
RPS2	NAC5	005	HORN STROBE	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR
RPS2	NAC5	006	HORN STROBE	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL
RPS2	NAC5		END OF LINE	EOL-4.7	EOL-4.7K

Project Name and Address

COASTAL PACIFIC FOOD DIST.  
 FREEZER EXPANSION  
 322 VALLEY AVENUE NW  
 PUYALLUP, WA. 98371

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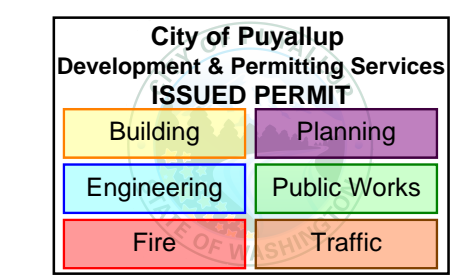
1-02/26/25	Submittal Set	AP
Rev.# - Date	Revision	By

Drawn By: A.P.  
 Checked By: D.H.  
 Date: 07/16/24  
 Project Name: EVELER FREEZER EXPANSION  
 Project Number: 26412

System Type  
**FIRE ALARM**

Sheet Name  
**CABLE/CIRCUIT REPORT & APPLIANCE LIST NOTIFICATION DEVICES**

Sheet Number  
**FZ003**  
 SHEET 3 OF 19



Firm Name and Address  
**Absco Solutions**  
 P.O. BOX 2246  
 LYNNWOOD, WA 98036  
 PH: 425.771.1166  
 FAX: 425.771.4422  
 www.abscosolutions.com

Project Name and Address  
 COASTAL PACIFIC FOOD DIST.  
 FREEZER EXPANSION  
 322 VALLEY AVENUE, NW  
 PUYALLUP, WA. 98371

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Drawn By: A.P.  
 Checked By: D.H.  
 Date: 07/16/24  
 Project Name: EVELER FREEZER EXPANSION  
 Project Number: 26412

System Type  
**FIRE ALARM**

Sheet Name  
**APPLIANCE LIST INITIATING DEVICES**

Sheet Number  
**FZ004**  
 SHEET 4 OF 19

Appliance List Initiating Devices					
Job number: 26412 Job name: Eveler Freezer Expansion - FA					
Panel Name	Circuit	Address	Device	Part Number	Description
	ZN1	[SLC1-M:002...011]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN2	[SLC1-M:002...011]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN3	[SLC1-M:002...011]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN4	[SLC1-M:002...011]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN5	[SLC1-M:002...011]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN6	[SLC1-M:002...011]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN7	[SLC1-M:002...011]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN8	[SLC1-M:002...011]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN1	[SLC1-M:018...027]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN2	[SLC1-M:018...027]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN3	[SLC1-M:018...027]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN4	[SLC1-M:018...027]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN5	[SLC1-M:018...027]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN6	[SLC1-M:018...027]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN7	[SLC1-M:018...027]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN8	[SLC1-M:018...027]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN1	[SLC1-M:031...040]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN2	[SLC1-M:031...040]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN3	[SLC1-M:031...040]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN4	[SLC1-M:031...040]	WATERFLOW SWITCH	GWF	WATERFLOW SWITCH
	ZN5	[SLC1-M:031...040]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN6	[SLC1-M:031...040]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN7	[SLC1-M:031...040]	TAMPER SWITCH	GTS	TAMPER SWITCH
	ZN8	[SLC1-M:031...040]	TAMPER SWITCH	GTS	TAMPER SWITCH
FACP	SLC1	M:001	ADDRESSABLE PULL STATION	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
FACP	SLC1	M:002...011	MULTI-INPUT MODULE	MMI-10F	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE
FACP	SLC1	M:012, 013	DUAL MONITOR MODULE	AMM-2I	DUAL MONITOR MODULE, ADDRESSABLE
FACP	SLC1	M:014, 015	DUAL MONITOR MODULE	AMM-2I	DUAL MONITOR MODULE, ADDRESSABLE
FACP	SLC1	M:016	ADDRESSABLE PULL STATION	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
FACP	SLC1	M:017	ADDRESSABLE PULL STATION	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
FACP	SLC1	M:018...027	MULTI-INPUT MODULE	MMI-10F	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE
FACP	SLC1	M:028, 029	DUAL MONITOR MODULE	AMM-2I	DUAL MONITOR MODULE, ADDRESSABLE
FACP	SLC1 / AUX2	M:030 / REL:001	CONTROL MODULE	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE
FACP	SLC1	M:031...040	MULTI-INPUT MODULE	MMI-10F	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE
FACP	SLC1	S:001	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:002	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:003	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:004	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:005	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:006	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:007	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:008	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:009	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:010	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:011	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:012	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:013	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:014	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:015	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:016	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:017	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:018	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:019	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:020	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:021	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:022	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:023	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:024	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:025	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:026	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:027	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:028	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:029	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:030	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:031	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:032	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:033	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:034	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:035	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:036	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:037	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:038	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:039	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:040	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:041	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:042	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:043	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:044	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:045	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:046	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:047	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:048	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:049	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:050	PHOTOELECTRIC DETECTOR	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE
FACP	SLC1	S:051	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:052	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:053	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:054	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE
FACP	SLC1	S:055	PHOTOELECTRIC DETECTOR	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE

**Battery Calculations for Panel: FACP**

Part No: E3-CLSS-KIT-V, BLACK, BLACK

Job number: 26412 Job name: Eveler Freezer Expansion - FA

Part No.	Qty.	Description	Standby	Total Standby	Alarm	Total Alarm
<b>Panel Equipment</b>						
ILI-MB-E3	1	ILI - MAIN BOARD, (VELOCITI OR CLIP MODE)	81.0000mA	81.0000mA	150.0000mA	150.0000mA
PM-9	1	POWER SUPPLY MODULE - 9-AMP	50.0000mA	50.0000mA	50.0000mA	50.0000mA
ASM-16	1	PROGRAMMABLE SWITCH MODULE, 16 SW, 48 LED	11.0000mA	11.0000mA	155.0000mA	155.0000mA
NGA-LCD	1	NGA-LCD NETWORK GRAPHIC ANNUNCIATOR	200.0000mA	200.0000mA	200.0000mA	200.0000mA
<b>Total Panel Stby</b>			<b>342.0000mA</b>		<b>Total Panel Alarm</b>	<b>555.0000mA</b>
<b>Peripheral Devices</b>						
ASD-LS3	12	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE (Signaling line)	0.3000mA	3.6000mA	6.5000mA	78.0000mA
ASD-PL3	43	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE (Signaling line)	0.2000mA	8.6000mA	3.2000mA	137.6000mA
MS-7AF	3	PULL STATION, DOUBLE ACTION, ADDRESSABLE (Signaling line)	0.3000mA	0.9000mA	3.0000mA	9.0000mA
AOM-2RF	1	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE (Signaling line)	0.3750mA	0.3750mA	6.5000mA	6.5000mA
AMM-2I	3	DUAL MONITOR MODULE, ADDRESSABLE (Signaling line)	0.0008mA	0.0023mA	0.0008mA	0.0023mA
MMI-10F	3	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE (Signaling line)	3.5000mA	10.5000mA	60.0000mA	180.0000mA
RTS451	14	REMOTE TEST STATION WITH ALARM LED (LED)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
GTS	12	TAMPER SWITCH (Initiating)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
GWF	12	WATERFLOW SWITCH (Initiating)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
<b>Total Peripheral Stby</b>			<b>23.9773mA</b>		<b>Total Periph Alarm</b>	<b>411.1023mA</b>
<b>Total Standby Amps</b>			<b>365.9773mA</b>		<b>Total Alarm Amps</b>	<b>966.1022mA</b>

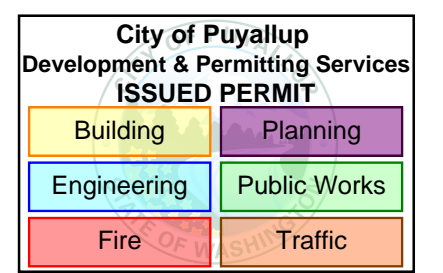
Standby time: 24 Hrs      8.783Ah  
 Alarm time: 5 Min      0.081Ah  
 Battery requirement:      8.864Ah  
 Compensation Factors - Standby: 1.2 Alarm: 1.2 Requirement with compensation: 10.637Ah

**Circuit Calculations Panel: FACP Card: E3-CLSS-KIT-V Circuit: SLC1**

Circuit Name: SLC1  
 Circuit Type: Signaling line/FCI - SLC, VELOCITY Terminal Voltage: 20.4V/DC Amperage: 1.0000A  
 Cable: 16 AWG 2 CONDUCTOR BARE COPPER TWISTED NON-SHIELDED PLENUM FA FPLP #16  
 Calculations based on Running Total Length.  
 Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%

Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
M:001	E3-CLSS-KIT-V	Panel			20.4V	
M:002...011	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	14'-6 1/2	0.3000mA	20.3949V	(0.0005V)
M:012,013	MMI-10F	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE	3'-8	3.5000mA	20.3887V	(0.0001V)
M:014,015	AMM-2I	DUAL MONITOR MODULE, ADDRESSABLE	4'-2	0.0008mA	20.3887V	(0V)
M:016	AMM-2I	DUAL MONITOR MODULE, ADDRESSABLE	3'-6	0.0008mA	20.3982V	(0.0005V)
M:017	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	22'-6 1/2	0.3000mA	20.3882V	(0.0032V)
M:018...027	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	13'-8 1/2	0.3000mA	20.364V	(0.0014V)
M:028,029	MMI-10F	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE	140'-11 1/2	3.5000mA	20.3219V	(0.0089V)
M:030	AMM-2I	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE	3'-5 1/2	0.0008mA	20.3216V	(0.0001V)
M:031...040	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE	248'-8 1/2	0.3750mA	20.3134V	(0.0083V)
S:001	MMI-10F	MONITOR MODULE, 10 CIRCUIT, ADDRESSABLE	136'-9 1/2	3.5000mA	20.3092V	(0.0041V)
S:002	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	7'-1 1/2	0.2000mA	20.3986V	(0.0014V)
S:003	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	11'-11 1/2	0.2000mA	20.3982V	(0.0005V)
S:004	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	26'-2	0.2000mA	20.3971V	(0.001V)
S:005	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	19'-10 1/2	0.2000mA	20.3964V	(0.0007V)
S:006	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	16'-9 1/2	0.2000mA	20.3959V	(0.0006V)
S:007	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	14'-10	0.2000mA	20.3954V	(0.0005V)
S:008	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	203'-7 1/2	0.2000mA	20.3888V	(0.0061V)
S:009	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	18'-10 1/2	0.2000mA	20.3954V	(0.0028V)
S:010	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	3'-7	0.2000mA	20.3954V	(0V)
S:011	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	12'-10	0.2000mA	20.3936V	(0.0018V)
S:012	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	6'-3	0.2000mA	20.3936V	(0V)
S:013	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	15'-4	0.2000mA	20.3914V	(0.0022V)
S:014	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	2'-2 1/2	0.2000mA	20.3914V	(0V)
S:015	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	10'-7	0.2000mA	20.3868V	(0.0014V)
S:016	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	2'-7 1/2	0.2000mA	20.3868V	(0V)
S:017	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	28'-3	0.2000mA	20.3829V	(0.0039V)
S:018	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	8'-9 1/2	0.2000mA	20.3829V	(0V)
S:019	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	17'-6 1/2	0.2000mA	20.3806V	(0.0023V)
S:020	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	4'-9	0.2000mA	20.3806V	(0V)
S:021	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	18'-8	0.2000mA	20.3782V	(0.0024V)
S:022	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	1'-9	0.2000mA	20.3782V	(0V)
S:023	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	14'-6 1/2	0.2000mA	20.3764V	(0.0018V)
S:024	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	3'-3	0.2000mA	20.3764V	(0V)
S:025	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	15'-0	0.2000mA	20.3747V	(0.0018V)
S:026	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	4'-1	0.2000mA	20.3747V	(0V)
S:027	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	8'-9 1/2	0.2000mA	20.3737V	(0.001V)
S:028	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	3'-2	0.2000mA	20.3737V	(0V)
S:029	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	19'-10 1/2	0.2000mA	20.3715V	(0.0023V)
S:030	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	7'-10 1/2	0.2000mA	20.3714V	(0V)
S:031	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	19'-5	0.2000mA	20.3693V	(0.0022V)
S:032	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	2'-4	0.2000mA	20.3693V	(0V)
S:033	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	34'-7 1/2	0.2000mA	20.3654V	(0.0038V)
S:034	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	7'-0	0.2000mA	20.3654V	(0V)
S:035	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	16'-4 1/2	0.2000mA	20.3624V	(0.0016V)
S:036	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	1'-11 1/2	0.2000mA	20.3624V	(0V)
S:037	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	38'-10 1/2	0.2000mA	20.3587V	(0.0037V)
S:038	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	28'-11 1/2	0.2000mA	20.356V	(0.0027V)
S:039	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	16'-2 1/2	0.3000mA	20.3545V	(0.0015V)
S:040	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	22'-8 1/2	0.3000mA	20.3524V	(0.0021V)
S:041	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	22'-9 1/2	0.3000mA	20.3504V	(0.002V)
S:042	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	29'-9	0.3000mA	20.3478V	(0.0026V)
S:043	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	22'-9 1/2	0.3000mA	20.346V	(0.0019V)
S:044	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	29'-9	0.3000mA	20.3435V	(0.0024V)
S:045	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	22'-9 1/2	0.3000mA	20.3418V	(0.0018V)
S:046	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	27'-2 1/2	0.3000mA	20.3396V	(0.0021V)
S:047	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	22'-9 1/2	0.3000mA	20.338V	(0.0017V)
S:048	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	29'-9	0.3000mA	20.3358V	(0.0021V)
S:049	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	22'-9 1/2	0.3000mA	20.3343V	(0.0016V)
S:050	ASD-LS3	PHOTO, SMOKE, DETECTOR, HIGH-SENSITIVITY, BRIGHT WHITE	29'-9	0.3000mA	20.3323V	(0.002V)
S:051	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	22'-9 1/2	0.3000mA	20.3308V	(0.0015V)
S:052	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	4'-4 1/2	0.2000mA	20.3217V	(0.0001V)
S:053	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	11'-2	0.2000mA	20.3092V	(0V)
S:054	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	27'-6	0.2000mA	20.3639V	(0.0001V)
S:055	ASD-PL3	PHOTO, SMOKE, DETECTOR, BRIGHT WHITE	94'-5	0.2000mA	20.3636V	(0.0003V)
			98'-3	0.2000mA	20.3634V	(0.0002V)
			1828'-3	23.9772mA		

Total Current: 23.9772mA  
 (Total VDrop Percent: 0.45%) Total Voltage Drop : 0.0908V



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**FREEZER EXPANSION**  
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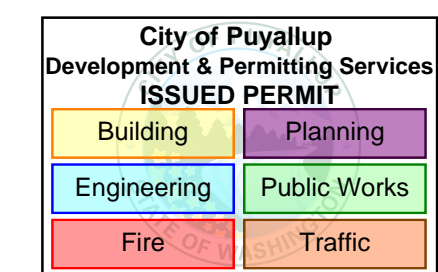
1-02/26/25	Submittal Set	AP
Rev.# - Date	Revision	By

Drawn By: A.P.  
 Checked By: D.H.  
 Date: 07/16/24  
 Project Name: EVELER FREEZER EXPANSION  
 Project Number: 26412

System Type  
**FIRE ALARM**

Sheet Name  
**FACP REPORTS**

Sheet Number  
**FZ005**  
 SHEET 5 OF 19



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1-02/26/25	Submital Set	AP
Rev.#-Date	Revision	By

Drawn By: A.P.  
 Checked By: D.H.  
 Date: 07/16/24  
 Project Name: EVELER FREEZER EXPANSION  
 Project Number: 26412

System Type  
**FIRE ALARM**

Sheet Name  
**RPS1 REPORTS**

Sheet Number  
**FZ006**  
 SHEET 6 OF 19

**Battery Calculations for Panel: RPS1**

Part No:HPF-PS10B - 10AMP, 120VAC REMOTE CHARGER POWER SUPPLY BLACK ENCLOSURE

Job number: 26412 Job name: Eveler Freezer Expansion - FA

Part No.	Qty.	Description	Standby	Total Standby	Alarm	Total Alarm
<b>Panel Equipment</b>						
HPF-PS10B_MB	1	MAINBOARD FOR THE HPF-PS10B	156.0000mA	156.0000mA	185.0000mA	185.0000mA
<b>Total Panel Stby</b>				156.0000mA	<b>Total Panel Alarm</b>	185.0000mA
<b>Peripheral Devices</b>						
P2WL	4	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL (Notification) 15CD 88dB	0.0000mA	0.0000mA	53.0000mA	212.0000mA
P2WL	3	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL (Notification) 30CD 88dB	0.0000mA	0.0000mA	73.0000mA	219.0000mA
P2WL	5	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL (Notification) 75CD 88dB	0.0000mA	0.0000mA	119.0000mA	595.0000mA
P2WL	1	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL (Notification) 110CD 88dB	0.0000mA	0.0000mA	164.0000mA	164.0000mA
P2WK	1	HORN STROBE, WHITE, WALL, OUTDOOR (Notification) 75CD 84dB	0.0000mA	0.0000mA	176.0000mA	176.0000mA
SWL	6	L-SERIES STROBE, WHITE, WALL (Notification) 15CD	0.0000mA	0.0000mA	43.0000mA	258.0000mA
SWL	1	L-SERIES STROBE, WHITE, WALL (Notification) 30CD	0.0000mA	0.0000mA	63.0000mA	63.0000mA
MB-G10-24-R	2	MOTOR BELL, 24VDC, 10 INCH, RED (Notification) 92dB	0.0000mA	0.0000mA	30.0000mA	60.0000mA
EOL-4.7	3	EOL-4.7K (Notification)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
<b>Total Peripheral Stby</b>			0.0000mA	0.0000mA	<b>Total Periph Alarm</b>	1747.0000mA
<b>Total Standby Amps</b>				156.0000mA	<b>Total Alarm Amps</b>	1932.0000mA

Standby time: 24 Hrs    3.744Ah  
 Alarm time: 5 Min    0.161Ah  
 Battery requirement: 3.905Ah

Compensation Factors - Standby: 1.2    Alarm: 1.2    Requirement with compensation: 4.686Ah

**Circuit Calculations Panel: RPS1 Card: HPF-PS10B Circuit:NAC1**

Circuit Name: NAC1  
 Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A  
 Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14  
 Calculations based on Running Total Length.  
 Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%

Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 15CD	5'-8	53.0000mA	20.3814V	(0.0186V)
002	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 30CD	19'-0	73.0000mA	20.3161V	(0.0653V)
003	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	12'-9 1/2	43.0000mA	20.2793V	(0.0368V)
004	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	45'-1 1/2	119.0000mA	20.1514V	(0.1279V)
005	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 30CD	33'-3 1/2	73.0000mA	20.0778V	(0.0736V)
006	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 30CD	23'-10 1/2	73.0000mA	20.0351V	(0.0427V)
007	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 15CD	15'-11	53.0000mA	20.0129V	(0.0222V)
008	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	16'-4 1/2	43.0000mA	19.9936V	(0.0193V)
009	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	17'-0 1/2	43.0000mA	19.9768V	(0.0168V)
010	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 15CD	8'-2	53.0000mA	19.9707V	(0.0061V)
011	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	11'-2 1/2	43.0000mA	19.9653V	(0.0054V)
012	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 15CD	10'-5 1/2	53.0000mA	19.9626V	(0.0027V)
	EOL-4.7	EOL-4.7K	1'-11	0.0000mA	19.9626V	(0V)
			220'-9 1/2	722.0000mA		

Total Current: 722.0000mA  
 (Total VDrop Percent:2.14%) Total Voltage Drop : 0.4374V

**Circuit Calculations Panel: RPS1 Card: HPF-PS10B Circuit:NAC3**

Circuit Name: NAC3  
 Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A  
 Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14  
 Calculations based on Running Total Length.  
 Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%

Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	MB-G10-24-R	MOTOR BELL, 24VDC, 10 INCH, RED	231'-10 1/2	30.0000mA	20.3644V	(0.0356V)
			231'-10 1/2	30.0000mA		

Total Current: 30.0000mA  
 (Total VDrop Percent:0.17%) Total Voltage Drop : 0.0356V

**Circuit Calculations Panel: RPS1 Card: HPF-PS10B Circuit:NAC4**

Circuit Name: NAC4  
 Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A  
 Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14  
 Calculations based on Running Total Length.  
 Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%

Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	MB-G10-24-R	MOTOR BELL, 24VDC, 10 INCH, RED	407'-5 1/2	30.0000mA	20.3372V	(0.0628V)
			407'-5 1/2	30.0000mA		

Total Current: 30.0000mA  
 (Total VDrop Percent:0.31%) Total Voltage Drop : 0.0628V

**Circuit Calculations Panel: RPS1 Card: HPF-PS10B Circuit:NAC2**

Circuit Name: NAC2  
 Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A  
 Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14  
 Calculations based on Running Total Length.  
 Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%

Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	54'-1 1/2	119.0000mA	20.1735V	(0.2265V)
002	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	64'-0 1/2	119.0000mA	19.9442V	(0.2293V)
003	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 110CD	99'-10	164.0000mA	19.6501V	(0.2941V)
004	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	42'-6	119.0000mA	19.5607V	(0.0894V)
005	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	41'-1 1/2	119.0000mA	19.4986V	(0.0622V)
006	P2WK	HORN STROBE, WHITE, WALL, OUTDOOR, 75CD	34'-8 1/2	176.0000mA	19.4678V	(0.0308V)
	EOL-4.7	EOL-4.7K	3'-3	0.0000mA	19.4678V	(0V)
			339'-6 1/2	816.0000mA		

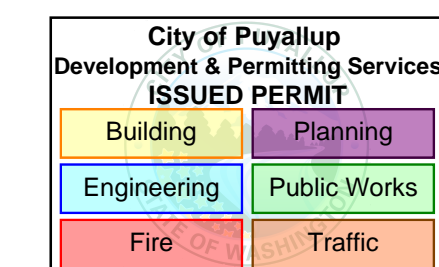
Total Current: 816.0000mA  
 (Total VDrop Percent:4.57%) Total Voltage Drop : 0.9322V

**Circuit Calculations Panel: RPS1 Card: HPF-PS10B Circuit:NAC5**

Circuit Name: NAC5  
 Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A  
 Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14  
 Calculations based on Running Total Length.  
 Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%

Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	SWL	L-SERIES STROBE, WHITE, WALL, 30CD	27'-6	63.0000mA	20.3793V	(0.0207V)
002	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	99'-7	43.0000mA	20.3356V	(0.0438V)
003	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	97'-6	43.0000mA	20.3141V	(0.0214V)
	EOL-4.7	EOL-4.7K	3'-5 1/2	0.0000mA	20.3141V	(0V)
			228'-0 1/2	149.0000mA		

Total Current: 149.0000mA  
 (Total VDrop Percent:0.42%) Total Voltage Drop : 0.0859V



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Project Name and Address

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Rev.#-Date	Revision	By

Drawn By: A.P.  
 Checked By: D.H.  
 Date: 07/16/24  
 Project Name: EVELER FREEZER EXPANSION  
 Project Number: 26412

System Type  
**FIRE ALARM**

Sheet Name  
**RPS2 REPORTS**

Sheet Number  
**FZ007**  
 SHEET 7 OF 19

Battery Calculations for Panel: RPS2						
Part No:HPF-PS10B - 10AMP, 120VAC REMOTE CHARGER POWER SUPPLY BLACK ENCLOSURE						
Job number: 26412 Job name: Eveler Freezer Expansion - FA						
Part No.	Qty.	Description	Standby	Total Standby	Alarm	Total Alarm
HPF-PS10B_MB	1	Panel Equipment MAINBOARD FOR THE HPF-PS10B	156.0000mA	156.0000mA	185.0000mA	185.0000mA
Total Panel Stby			156.0000mA	156.0000mA	Total Panel Alarm	185.0000mA
Peripheral Devices						
P2WL	5	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL (Notification) 75CD 88dB	0.0000mA	0.0000mA	119.0000mA	595.0000mA
P2WL	1	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL (Notification) 110CD 88dB	0.0000mA	0.0000mA	164.0000mA	164.0000mA
PC2WK	15	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR (Notification) 115CD 84dB	0.0000mA	0.0000mA	218.0000mA	3270.0000mA
SWL	3	L-SERIES STROBE, WHITE, WALL (Notification) 15CD	0.0000mA	0.0000mA	43.0000mA	129.0000mA
EOL-4.7	5	EOL-4.7K (Notification)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
Total Peripheral Stby			0.0000mA	0.0000mA	Total Periph Alarm	4158.0000mA
Total Standby Amps			156.0000mA	156.0000mA	Total Alarm Amps	4343.0000mA
Standby time: 24 Hrs						3.744Ah
Alarm time: 5 Min						0.362Ah
Battery requirement:						4.106Ah
Compensation Factors - Standby: 1.2 Alarm: 1.2 Requirement with compensation:						4.927Ah

Circuit Calculations Panel: RPS2 Card: HPF-PS10B Circuit:NAC3						
Circuit Name: NAC3						
Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A						
Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14						
Calculations based on Running Total Length.						
Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%						
Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	178'-10 1/2	218.0000mA	19.6928V	(0.7072V)
002	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	83'-11 1/2	218.0000mA	19.456V	(0.2368V)
003	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	75'-8 1/2	218.0000mA	19.3261V	(0.1299V)
004	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	50'-8 1/2	119.0000mA	19.2955V	(0.0306V)
	EOL-4.7	EOL-4.7K	4'-8	0.0000mA	19.2955V	(0V)
			393'-10 1/2	773.0000mA		
Total Current:						773.0000mA
(Total VDrop Percent:5.41%)						Total Voltage Drop : 1.1045V

Circuit Calculations Panel: RPS2 Card: HPF-PS10B Circuit:NAC1						
Circuit Name: NAC1						
Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A						
Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14						
Calculations based on Running Total Length.						
Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%						
Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 110CD	75'-3 1/2	164.0000mA	19.9763V	(0.4237V)
002	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	67'-4 1/2	218.0000mA	19.6543V	(0.322V)
003	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	84'-6 1/2	119.0000mA	19.3448V	(0.3096V)
004	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	14'-3 1/2	43.0000mA	19.3017V	(0.043V)
005	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	16'-6	218.0000mA	19.2561V	(0.0456V)
006	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	75'-8 1/2	218.0000mA	19.1262V	(0.1299V)
007	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	41'-0 1/2	119.0000mA	19.1011V	(0.0251V)
	EOL-4.7	EOL-4.7K	1'-11	0.0000mA	19.1011V	(0V)
			376'-7 1/2	1099.0000mA		
Total Current:						1099.0000mA
(Total VDrop Percent:6.37%)						Total Voltage Drop : 1.2989V

Circuit Calculations Panel: RPS2 Card: HPF-PS10B Circuit:NAC4						
Circuit Name: NAC4						
Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A						
Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14						
Calculations based on Running Total Length.						
Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%						
Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	241'-4	218.0000mA	19.5899V	(0.8101V)
002	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	83'-11 1/2	218.0000mA	19.4039V	(0.186V)
003	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	75'-8 1/2	218.0000mA	19.3198V	(0.084V)
	EOL-4.7	EOL-4.7K	5'-3	0.0000mA	19.3198V	(0V)
			406'-2 1/2	654.0000mA		
Total Current:						654.0000mA
(Total VDrop Percent:5.30%)						Total Voltage Drop : 1.0802V

Circuit Calculations Panel: RPS2 Card: HPF-PS10B Circuit:NAC2						
Circuit Name: NAC2						
Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A						
Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14						
Calculations based on Running Total Length.						
Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%						
Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	115'-11	218.0000mA	19.988V	(0.412V)
002	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	83'-11 1/2	218.0000mA	19.7837V	(0.2044V)
003	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	75'-8 1/2	218.0000mA	19.683V	(0.1006V)
004	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	111'-1	43.0000mA	19.6585V	(0.0245V)
	EOL-4.7	EOL-4.7K	2'-1	0.0000mA	19.6585V	(0V)
			388'-8 1/2	697.0000mA		
Total Current:						697.0000mA
(Total VDrop Percent:3.63%)						Total Voltage Drop : 0.7415V

Circuit Calculations Panel: RPS2 Card: HPF-PS10B Circuit:NAC5						
Circuit Name: NAC5						
Circuit Type: Notification Terminal Voltage: 20.4V:DC Amperage: 3.0000A						
Cable: 14 AWG 2 CONDUCTOR BARE COPPER, TWISTED NON-SHIELDED PLENUM FA FPLP #14						
Calculations based on Running Total Length.						
Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 18%						
Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	HPF-PS10B	Panel			20.4V	
001	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	303'-2	218.0000mA	18.9438V	(1.4562V)
002	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	83'-11 1/2	218.0000mA	18.6379V	(0.3059V)
003	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	14'-0 1/2	119.0000mA	18.602V	(0.0359V)
004	SWL	L-SERIES STROBE, WHITE, WALL, 15CD	13'-10 1/2	43.0000mA	18.5766V	(0.0254V)
005	PC2WK	HORN STROBE, WHITE, CEILING, WEATHERPROOF, OUTDOOR, 115CD	89'-3	218.0000mA	18.4225V	(0.1542V)
006	P2WL	L-SERIES 2-WIRE, HORN STROBE, WHITE, WALL, 75CD	41'-1 1/2	119.0000mA	18.3974V	(0.0251V)
	EOL-4.7	EOL-4.7K	3'-0	0.0000mA	18.3974V	(0V)
			548'-5	935.0000mA		
Total Current:						935.0000mA
(Total VDrop Percent:9.82%)						Total Voltage Drop : 2.0026V

Circuit Legend		
Quantity	Circuit	Description
1	AUX2	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	C1	14/4 = SOL JKT FPLR 1M RL CABLE
1	LED1	18 = 2C SOL TWISTED UNJACKED TFN
1	NAC1	14/2-ins = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC2	14/2-ins = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC3	14/2-ins = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC4	14/2-ins = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC5	14/2-ins = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN1	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN2	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN3	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN4	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN5	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN6	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN7	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN8	16/2-ins = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

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Project Name and Address  
**COASTAL PACIFIC FOOD DIST.  
FREEZER EXPANSION**  
322 VALLEY AVENUE, NW  
PUYALLUP, WA, 98371

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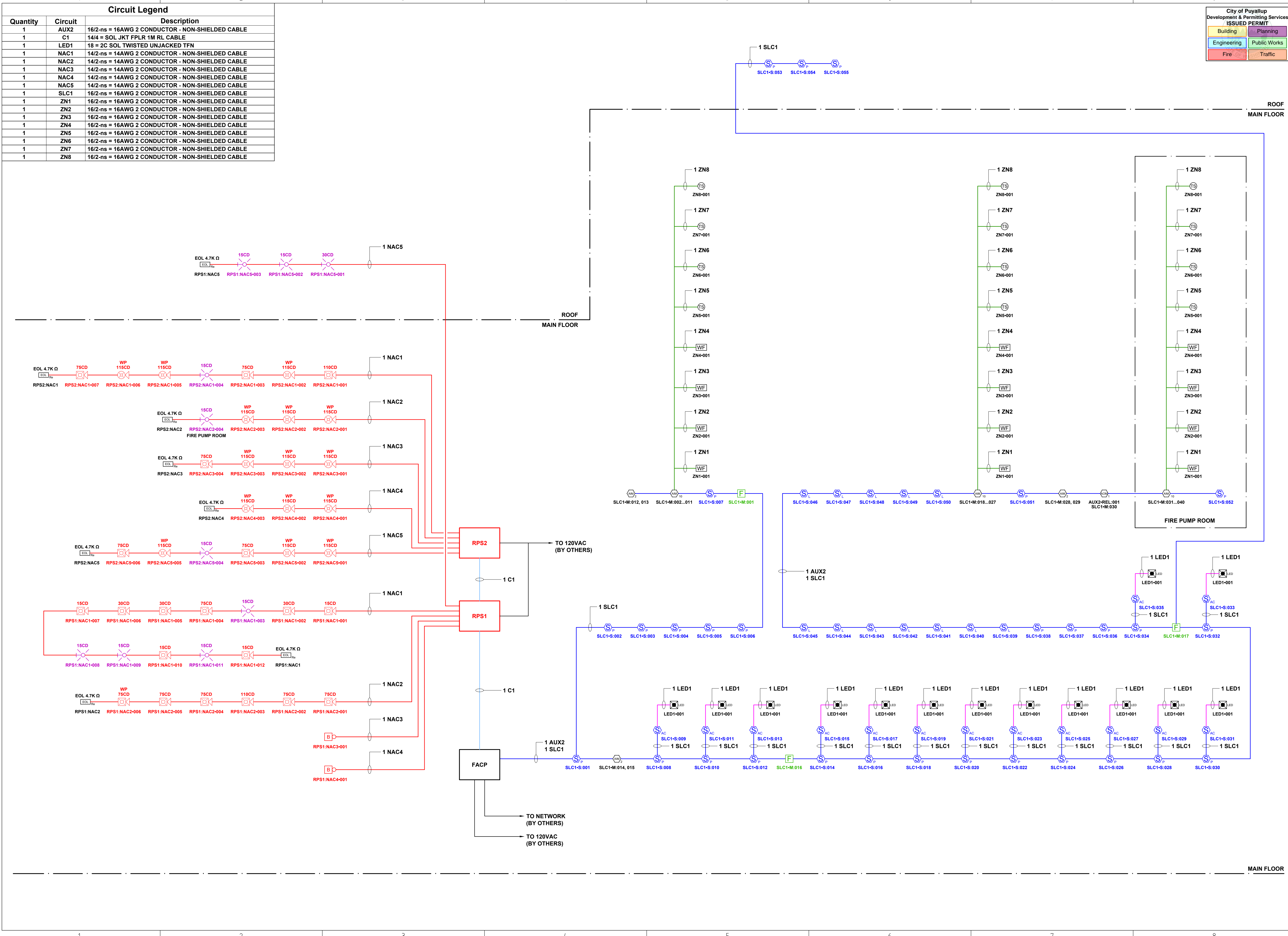
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Rev.#	Date	Revision

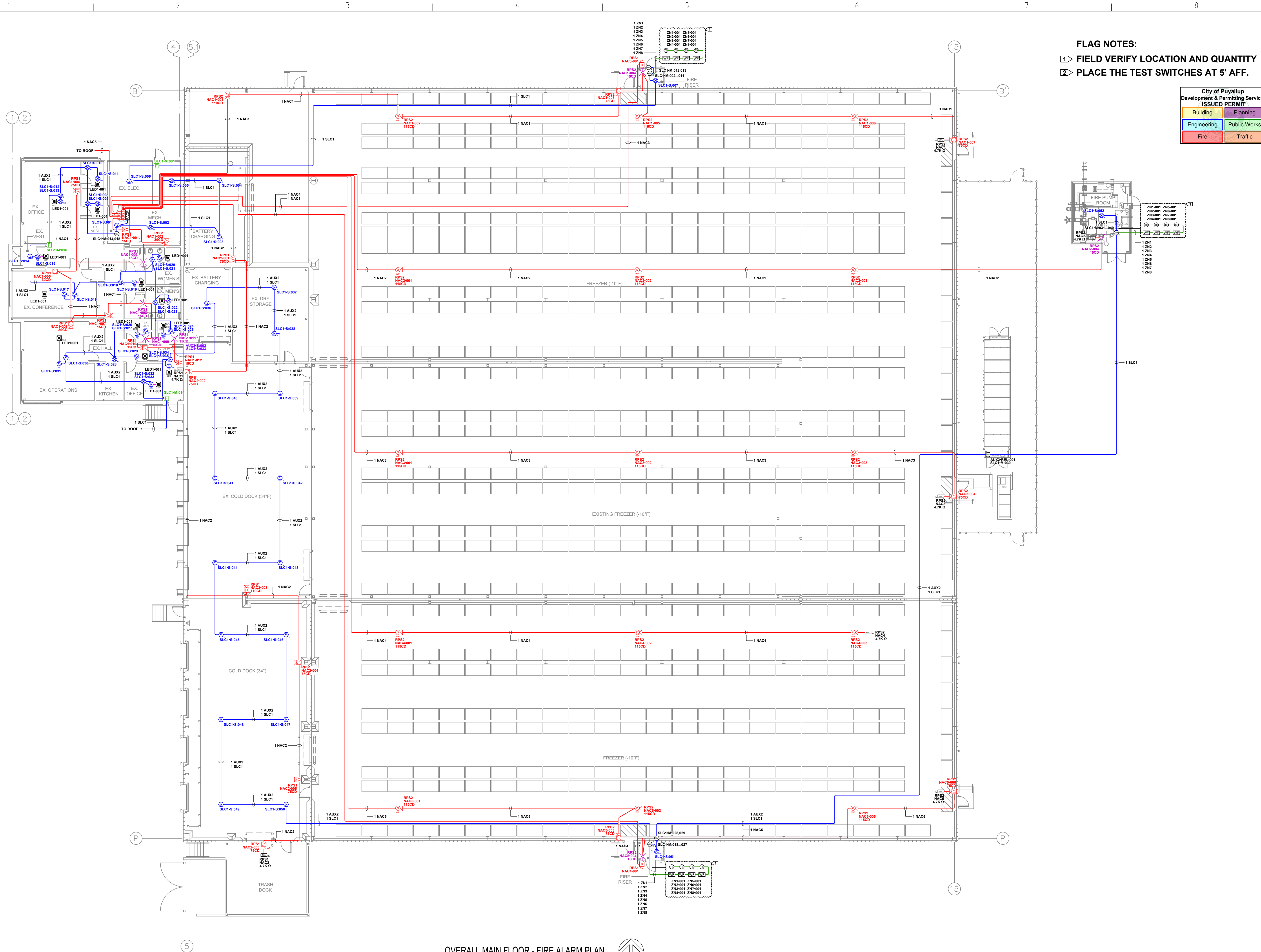
Drawn By	A.P.
Checked By	D.H.
Date	07/16/24
Project Name	EVELER FREEZER EXPANSION
Project Number	26412

System Type  
**FIRE ALARM**

Sheet Name  
**FIRE ALARM RISER**

Sheet Number  
**FZ008**  
SHEET 8 OF 19





**FLAG NOTES:**

- 1 FIELD VERIFY LOCATION AND QUANTITY
- 2 PLACE THE TEST SWITCHES AT 5' AFF.

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Project Name and Address  
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FREEZER EXPANSION  
322 VALLEY AVENUE NW  
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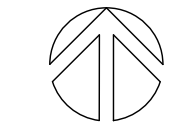
Drawn By	A.P.
Checked By	D.H.
Date	07/16/24
Project Name	EVELER FREEZER EXPANSION
Project Number	26412

System Type  
**FIRE ALARM**

Sheet Name  
**OVERALL MAIN FLOOR  
FIRE ALARM PLAN**

Sheet Number  
**FZ101**  
SHEET 9 OF 19

**OVERALL MAIN FLOOR - FIRE ALARM PLAN**  
SCALE: NTS



Circuit Legend		
Quantity	Circuit	Description
1	AUX2	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC1	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC2	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC3	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC4	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC5	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

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Fire	Traffic

- FLAG NOTES:**
- ① FIELD VERIFY LOCATION AND QUANTITY
  - ② PLACE THE TEST SWITCHES AT 5' AFF.

Project Name and Address  
**COASTAL PACIFIC FOOD DIST.  
 FREEZER EXPANSION**  
 322 VALLEY AVENUE, NW  
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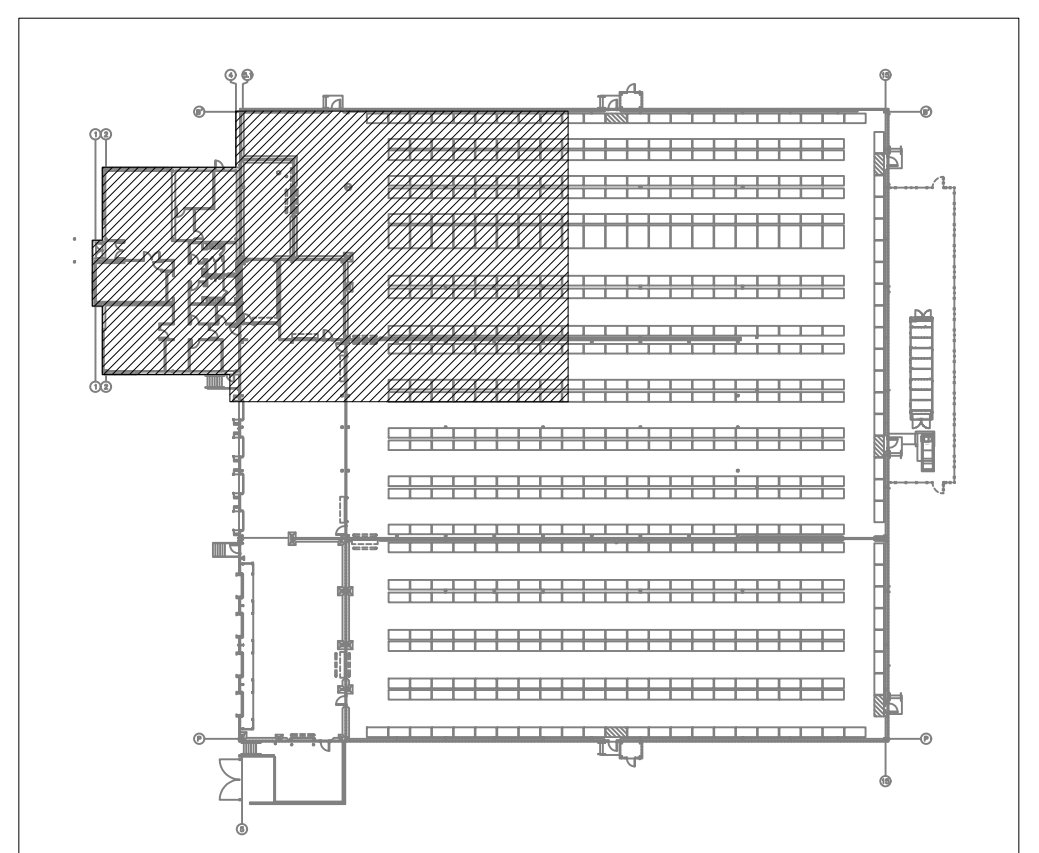
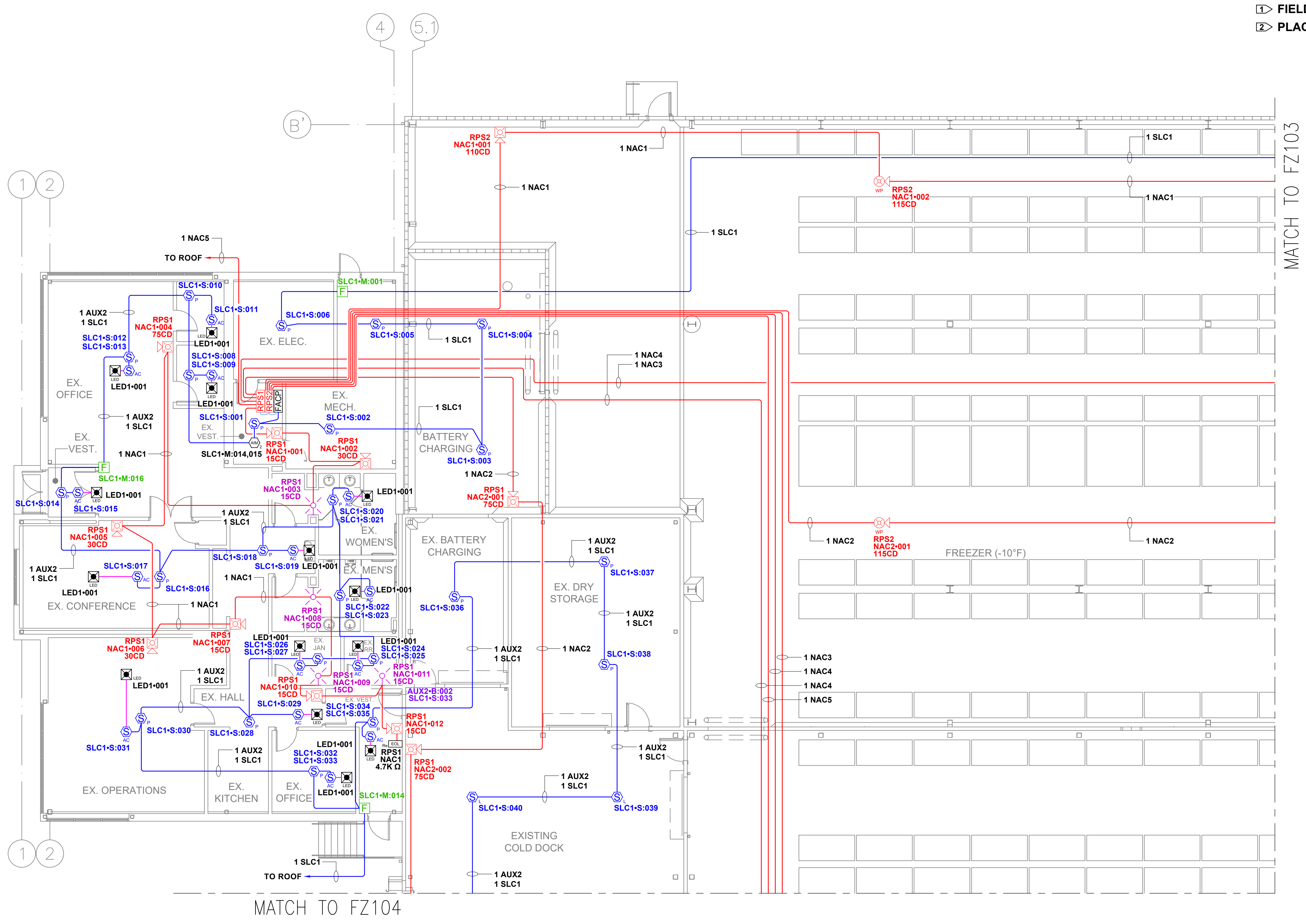
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 NICET: IV # 97083

Rev.#	Date	Revision	By
1-02/26/25		Submittal Set	AP

System Type  
**FIRE ALARM**

Sheet Name  
**MAIN FLOOR AREA A FIRE ALARM PLAN**

Sheet Number  
**FZ102**  
 SHEET 10 OF 19



**KEY PLAN**  
 SCALE: NOT TO SCALE

**MAIN FLOOR - AREA A FIRE ALARM PLAN**  
 SCALE: 1/8"=1'0"

Circuit Legend		
Quantity	Circuit	Description
1	NAC1	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC2	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC3	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN2	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN3	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN4	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN5	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN6	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN7	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN8	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

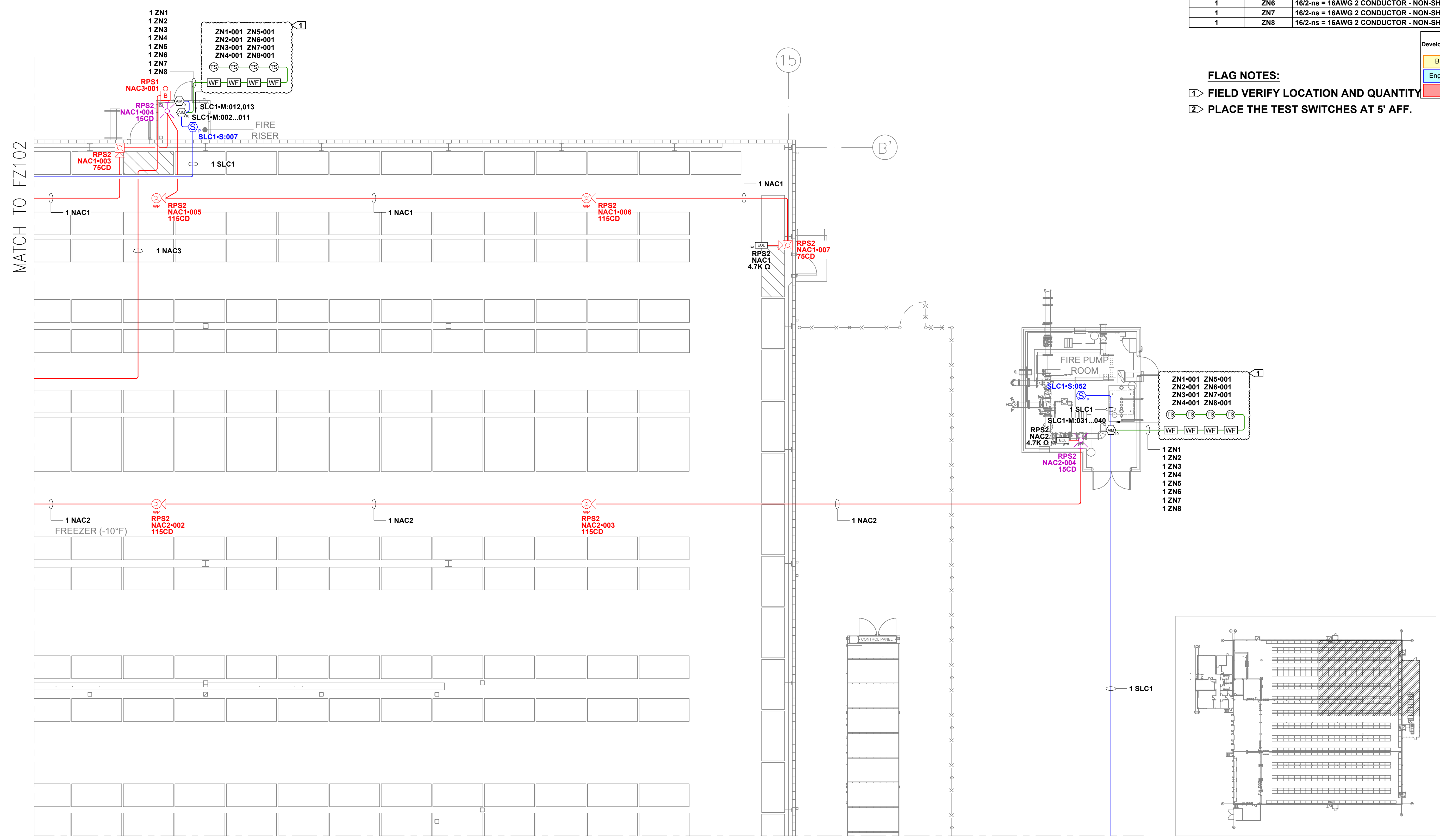
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Project Name and Address  
**COASTAL PACIFIC FOOD DIST.**  
**FREEZER EXPANSION**  
 322 VALLEY AVENUE, NW  
 PUYALLUP, WA. 98371

City of Puyallup  
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Engineering	Public Works
Fire	Traffic

**FLAG NOTES:**  
 ① FIELD VERIFY LOCATION AND QUANTITY  
 ② PLACE THE TEST SWITCHES AT 5' AFF.



**MAIN FLOOR - AREA B FIRE ALARM PLAN**  
 SCALE: 1/8"=1'0"

**KEY PLAN**  
 SCALE: NOT TO SCALE

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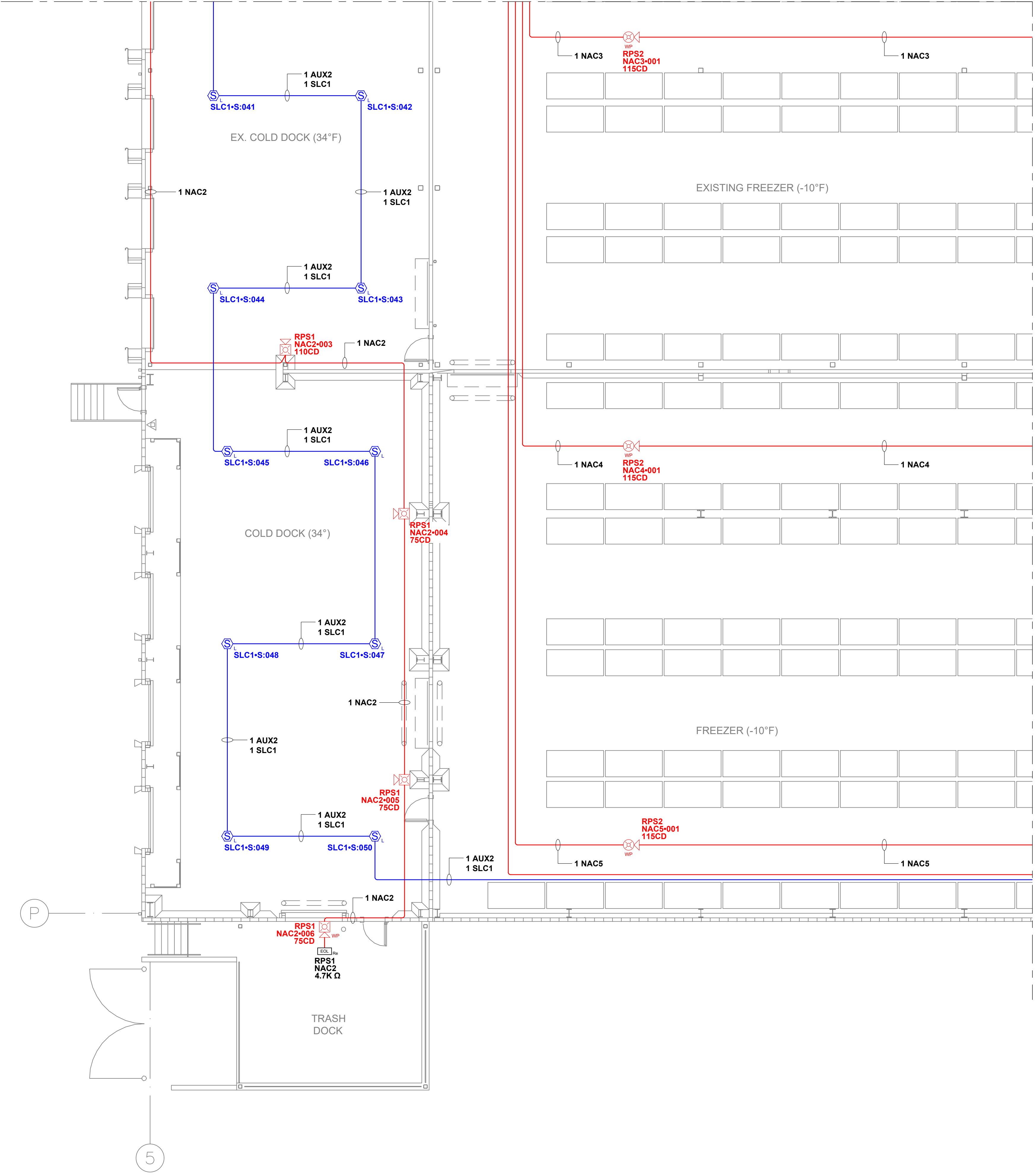
Drawn By	A.P.
Checked By	D.H.
Date	07/16/24
Project Name	EVELER FREEZER EXPANSION
Project Number	26412

System Type  
**FIRE ALARM**

Sheet Name  
**MAIN FLOOR AREA B FIRE ALARM PLAN**

Sheet Number  
**FZ103**  
 SHEET 11 OF 19

MATCH TO FZ102



Circuit Legend		
Quantity	Circuit	Description
1	AUX2	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC2	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC3	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC4	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC5	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

**FLAG NOTES:**  
 1 FIELD VERIFY LOCATION AND QUANTITY  
 2 PLACE THE TEST SWITCHES AT 5' AFF.

City of Puyallup Development & Permitting Services ISSUED PERMIT	
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Fire	Traffic

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Project Name and Address  
**COASTAL PACIFIC FOOD DIST.  
 FREEZER EXPANSION  
 322 VALLEY AVENUE, NW  
 PUYALLUP, WA. 98371**

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Drawn By	A.P.
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Date	07/16/24
Project Name	EVELER FREEZER EXPANSION
Project Number	26412

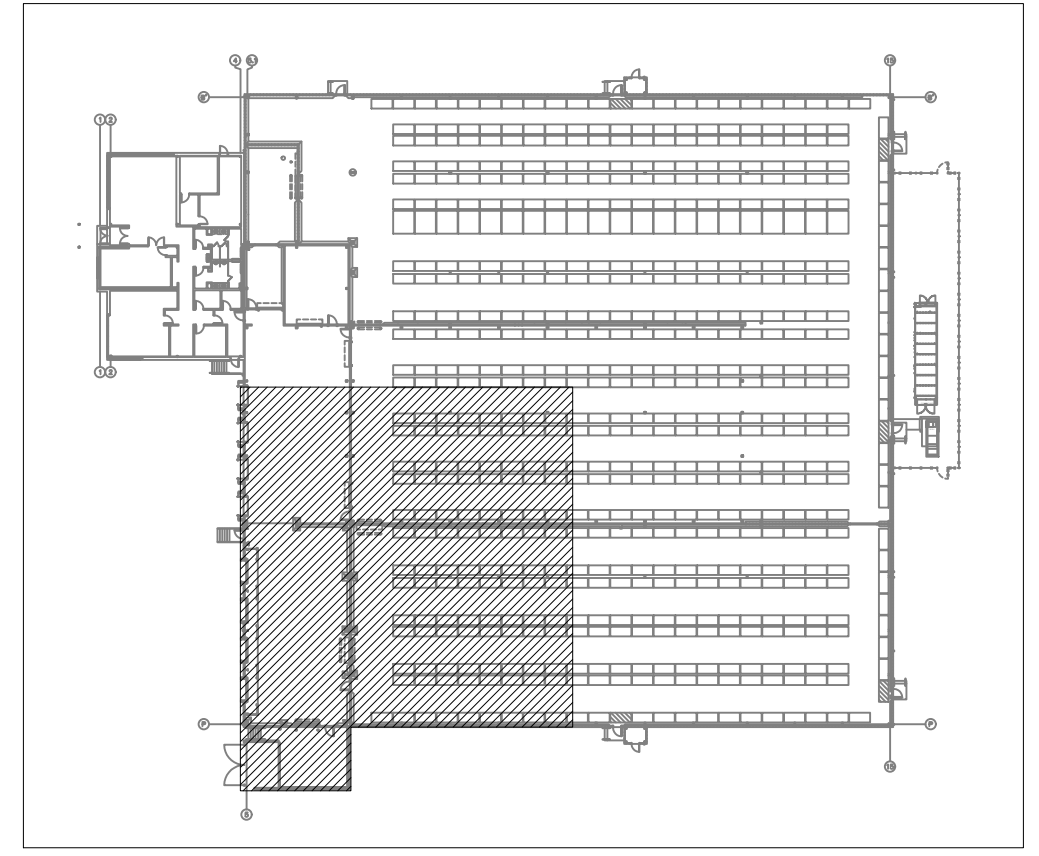
System Type  
**FIRE ALARM**

Sheet Name  
**MAIN FLOOR  
 AREA C  
 FIRE ALARM PLAN**

Sheet Number  
**FZ104**  
 SHEET 12 OF 19

**MAIN FLOOR - AREA C FIRE ALARM PLAN**  
 SCALE: 1/8"=1'-0"

**KEY PLAN**  
 SCALE: NOT TO SCALE

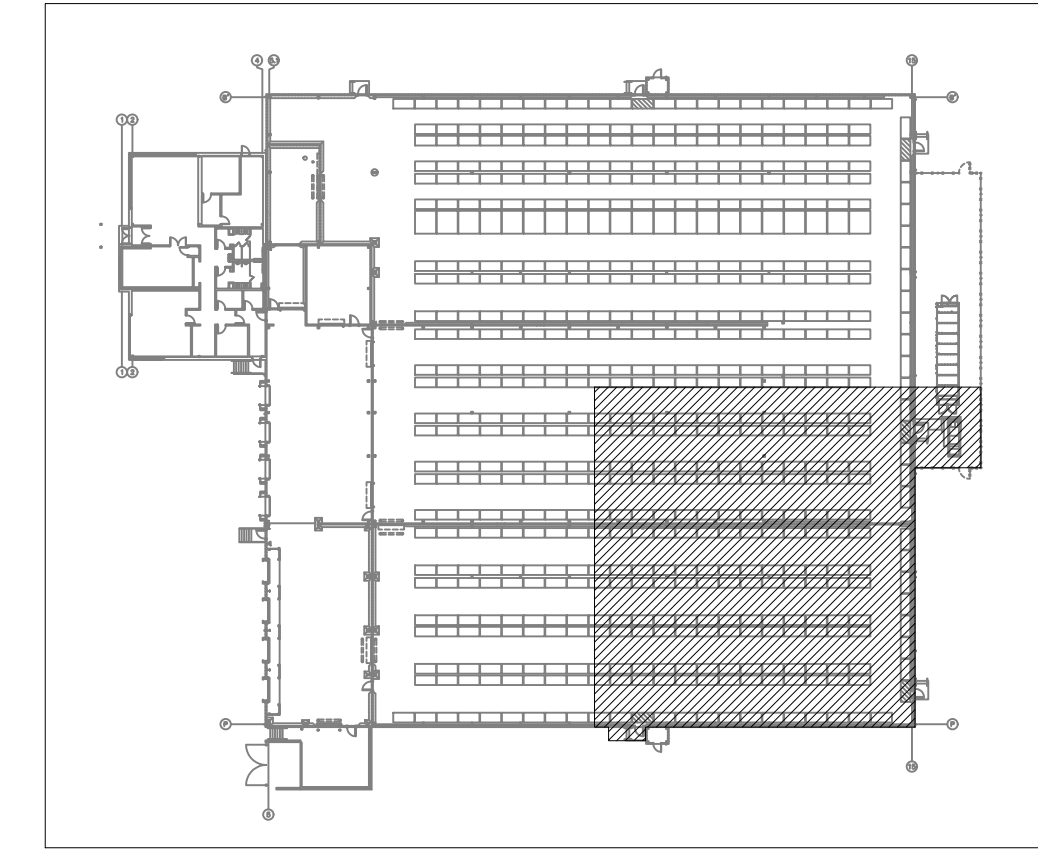
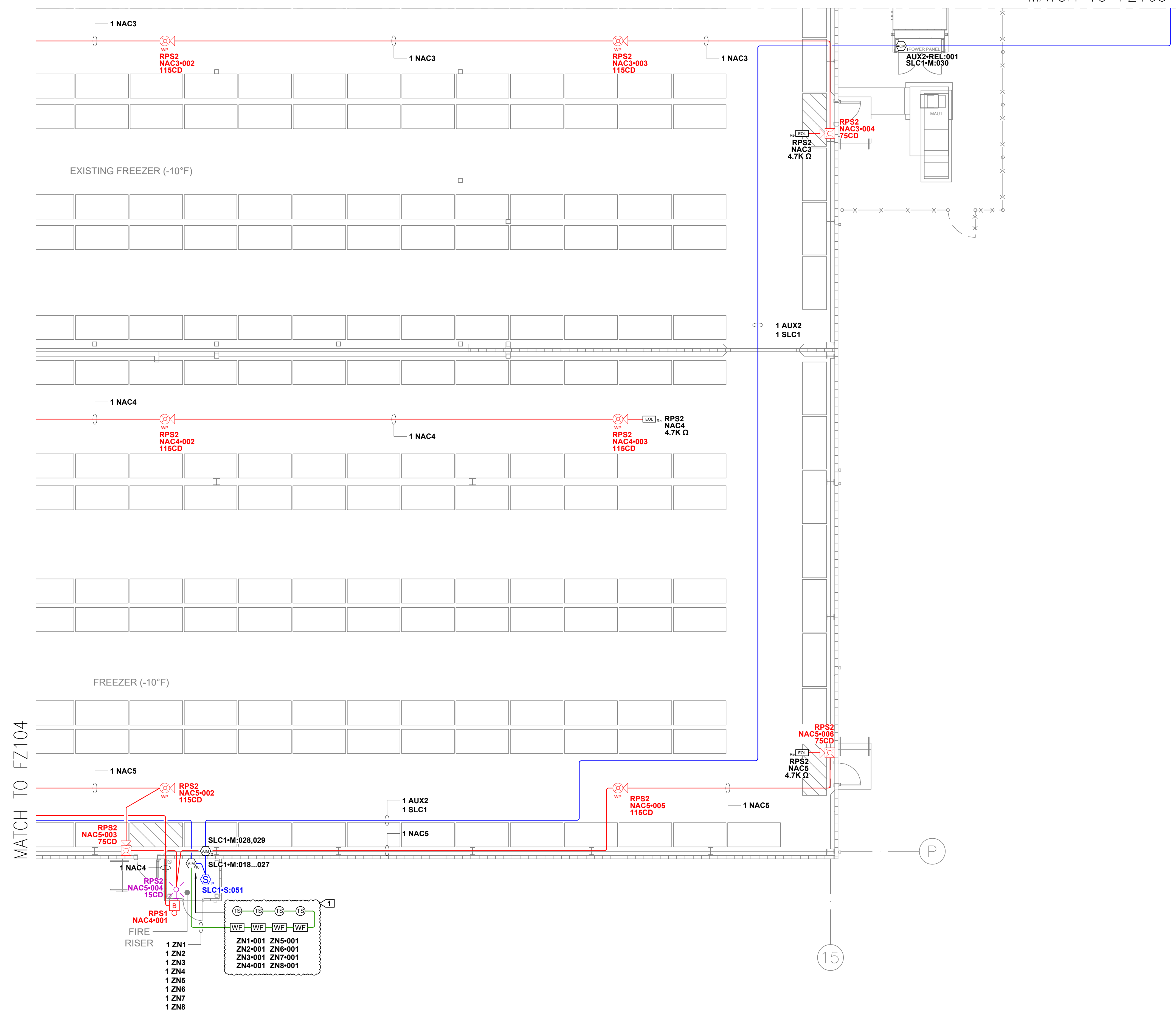


MATCH TO FZ103

Circuit Legend		
Quantity	Circuit	Description
1	AUX2	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC3	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC4	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	NAC5	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN2	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN3	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN4	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN5	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN6	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN7	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	ZN8	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

- FLAG NOTES:**
- ① FIELD VERIFY LOCATION AND QUANTITY
  - ② PLACE THE TEST SWITCHES AT 5' AFF.



MAIN FLOOR - AREA D FIRE ALARM PLAN  
SCALE: 1/8"=1'0"

KEY PLAN  
SCALE: NOT TO SCALE

Firm Name and Address  
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Project Name and Address  
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 FREEZER EXPANSION  
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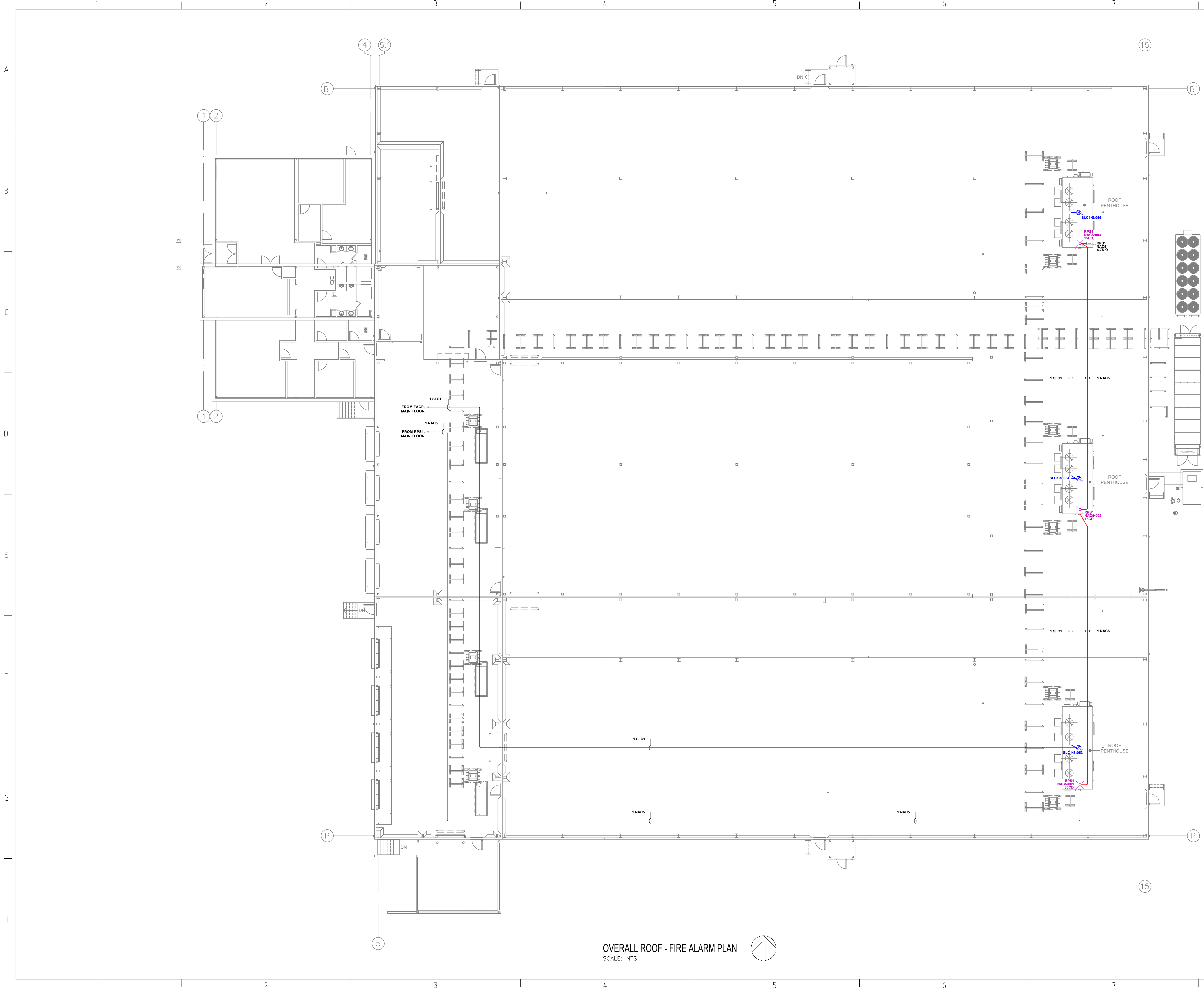
Rev.#	Date	Revision	By
1-02/26/25		Submittal Set	AP

Drawn By	A.P.
Checked By	D.H.
Date	07/16/24
Project Name	EVELER FREEZER EXPANSION
Project Number	26412

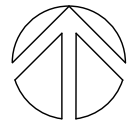
System Type  
**FIRE ALARM**

Sheet Name  
 MAIN FLOOR  
 AREA D  
 FIRE ALARM PLAN

Sheet Number  
**FZ105**  
 SHEET 13 OF 19



OVERALL ROOF - FIRE ALARM PLAN  
SCALE: NTS



City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Firm Name and Address  
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P.O. BOX 2246  
LYNNWOOD, WA 98036  
PH: 425.771.1166  
FAX: 425.771.4422  
www.abscosolutions.com

Project Name and Address  
**COASTAL PACIFIC FOOD DIST.  
FREEZER EXPANSION  
322 VALLEY AVENUE NW  
PUYALLUP, WA. 98371**

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Checked By	D.H.
Date	07/16/24
Project Name	EVELER FREEZER EXPANSION
Project Number	26412

System Type  
**FIRE ALARM**

Sheet Name  
**OVERALL ROOF FIRE ALARM PLAN**

Sheet Number  
**FZ106**  
SHEET 14 OF 19

Circuit Legend		
Quantity	Circuit	Description
1	NAC5	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
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322 VALLEY AVENUE NW  
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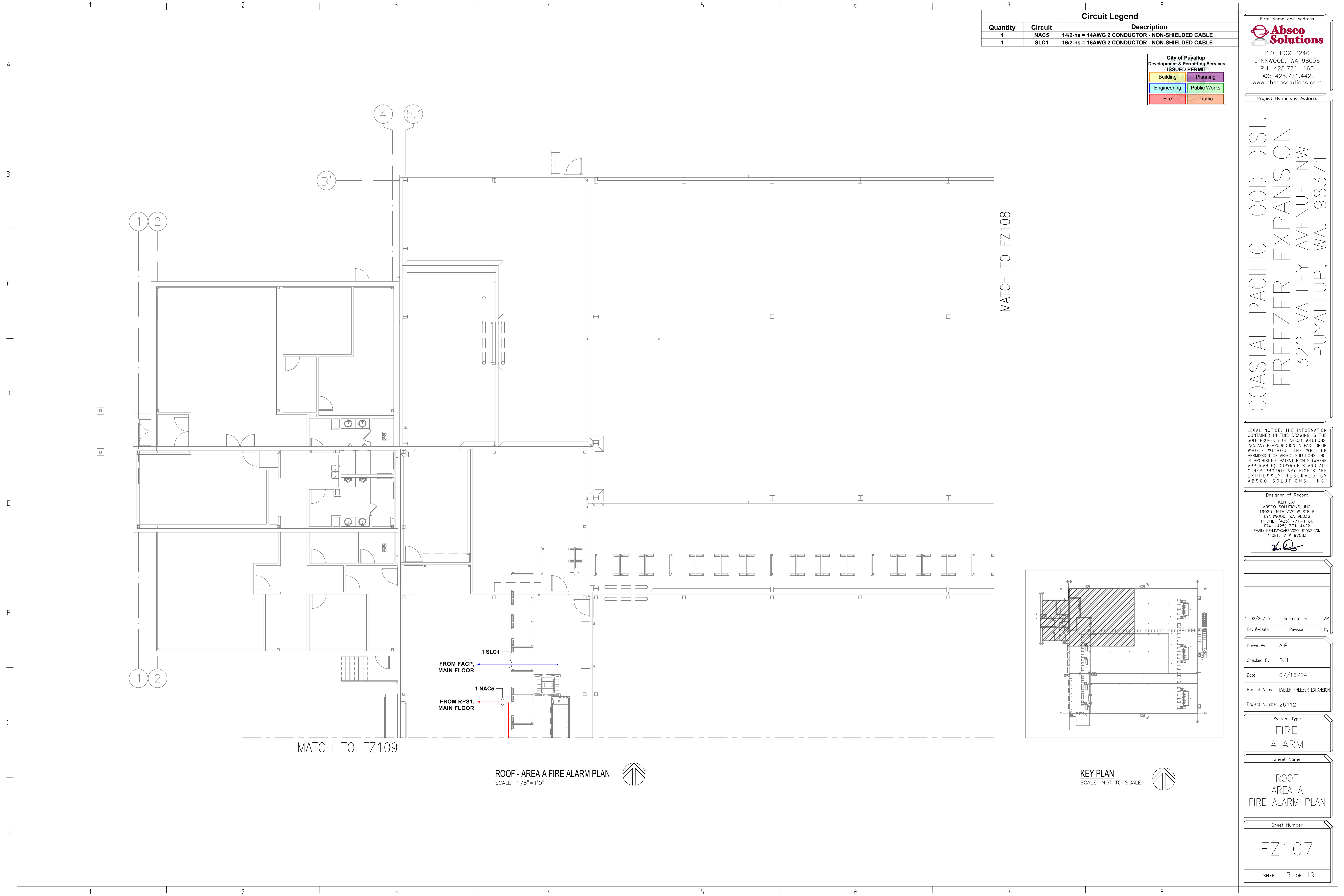
Rev.#	Date	Revision	By
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Drawn By: A.P.  
Checked By: D.H.  
Date: 07/16/24  
Project Name: EVELER FREEZER EXPANSION  
Project Number: 26412

System Type  
**FIRE ALARM**

Sheet Name  
**ROOF AREA A FIRE ALARM PLAN**

Sheet Number  
**FZ107**  
SHEET 15 OF 19



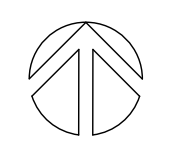
MATCH TO FZ109

MATCH TO FZ108

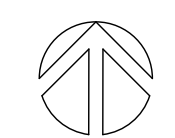
1 SLC1  
FROM FACP,  
MAIN FLOOR

1 NAC5  
FROM RPS1,  
MAIN FLOOR

**ROOF - AREA A FIRE ALARM PLAN**  
SCALE: 1/8"=1'0"



**KEY PLAN**  
SCALE: NOT TO SCALE



Circuit Legend		
Quantity	Circuit	Description
1	NAC5	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

City of Puyallup Development & Permitting Services ISSUED PERMIT	
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Engineering	Public Works
Fire	Traffic

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Project Name and Address  
 COASTAL PACIFIC FOOD DIST.  
 FREEZER EXPANSION  
 322 VALLEY AVENUE, NW  
 PUYALLUP, WA, 98371

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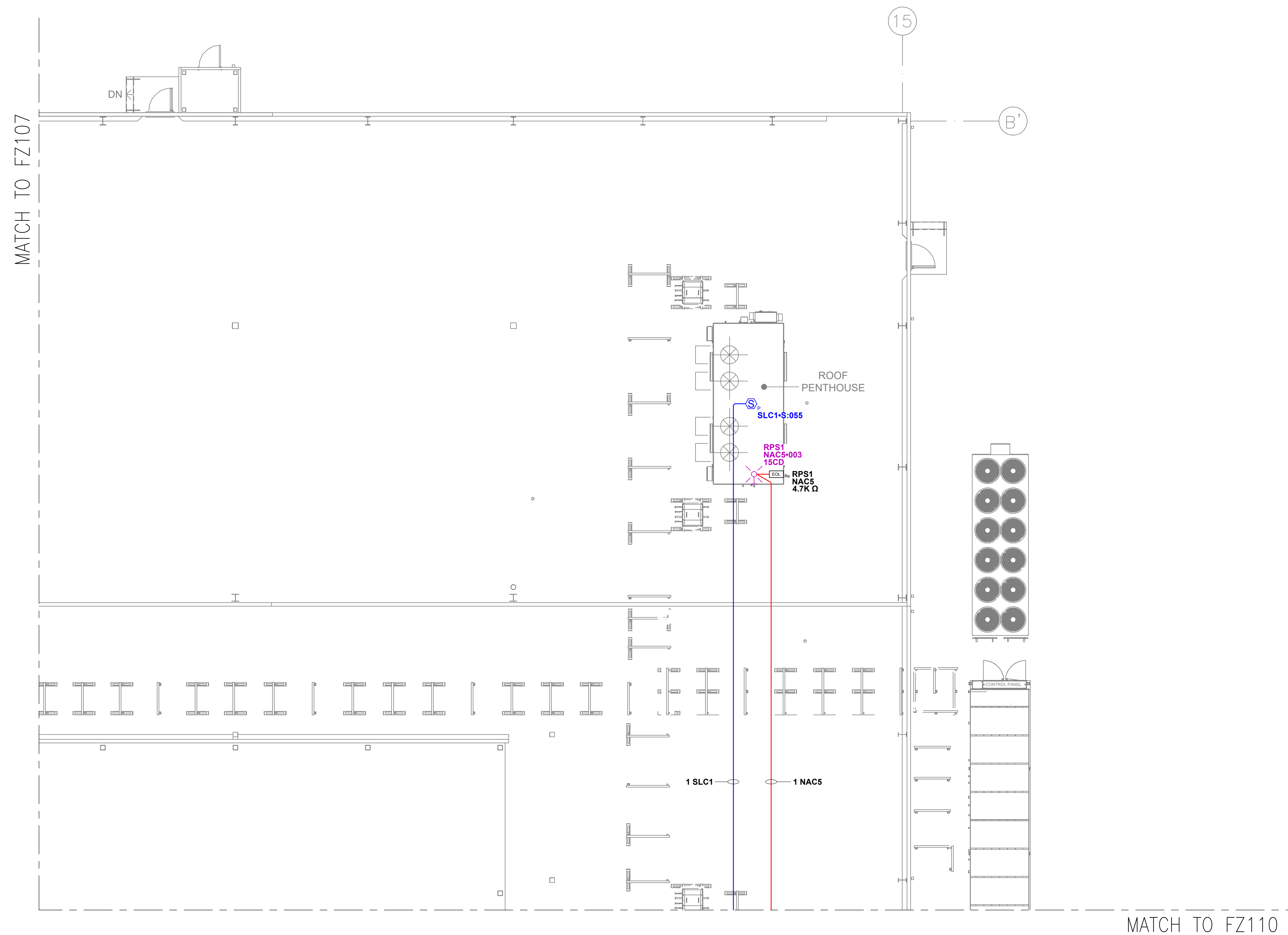
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Drawn By	A.P.
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Project Number	26412

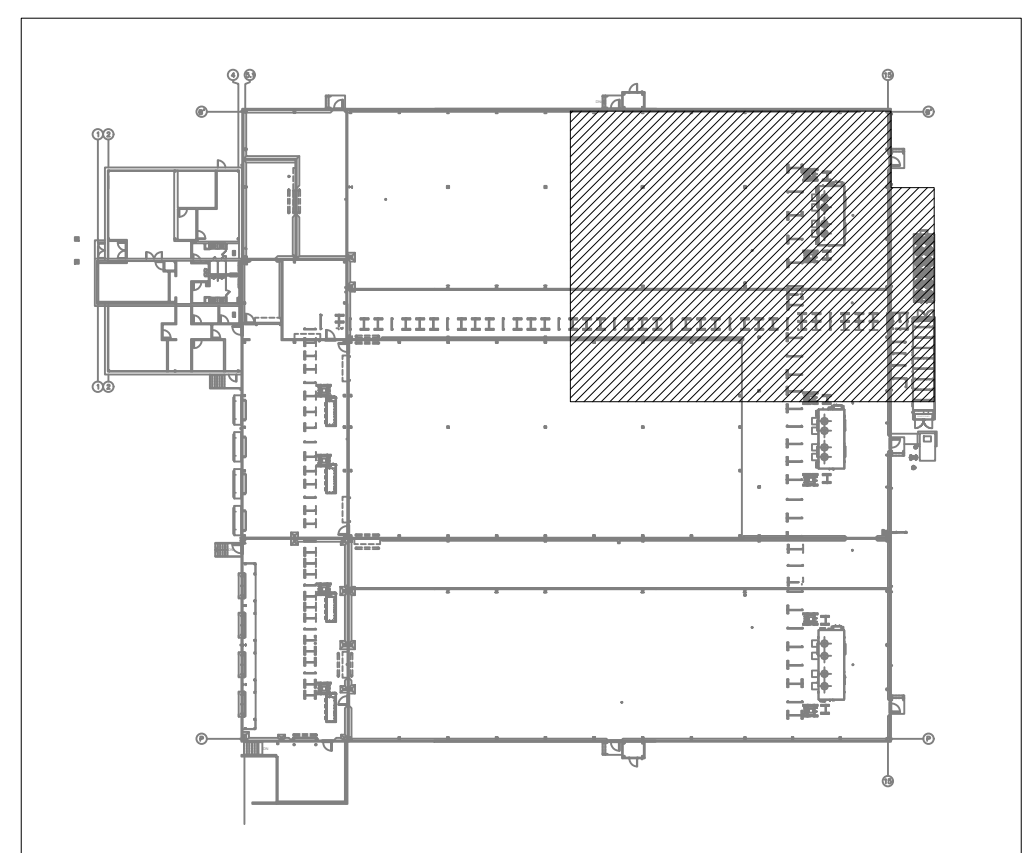
System Type  
**FIRE ALARM**

Sheet Name  
**ROOF AREA B FIRE ALARM PLAN**

Sheet Number  
**FZ108**  
 SHEET 16 of 19

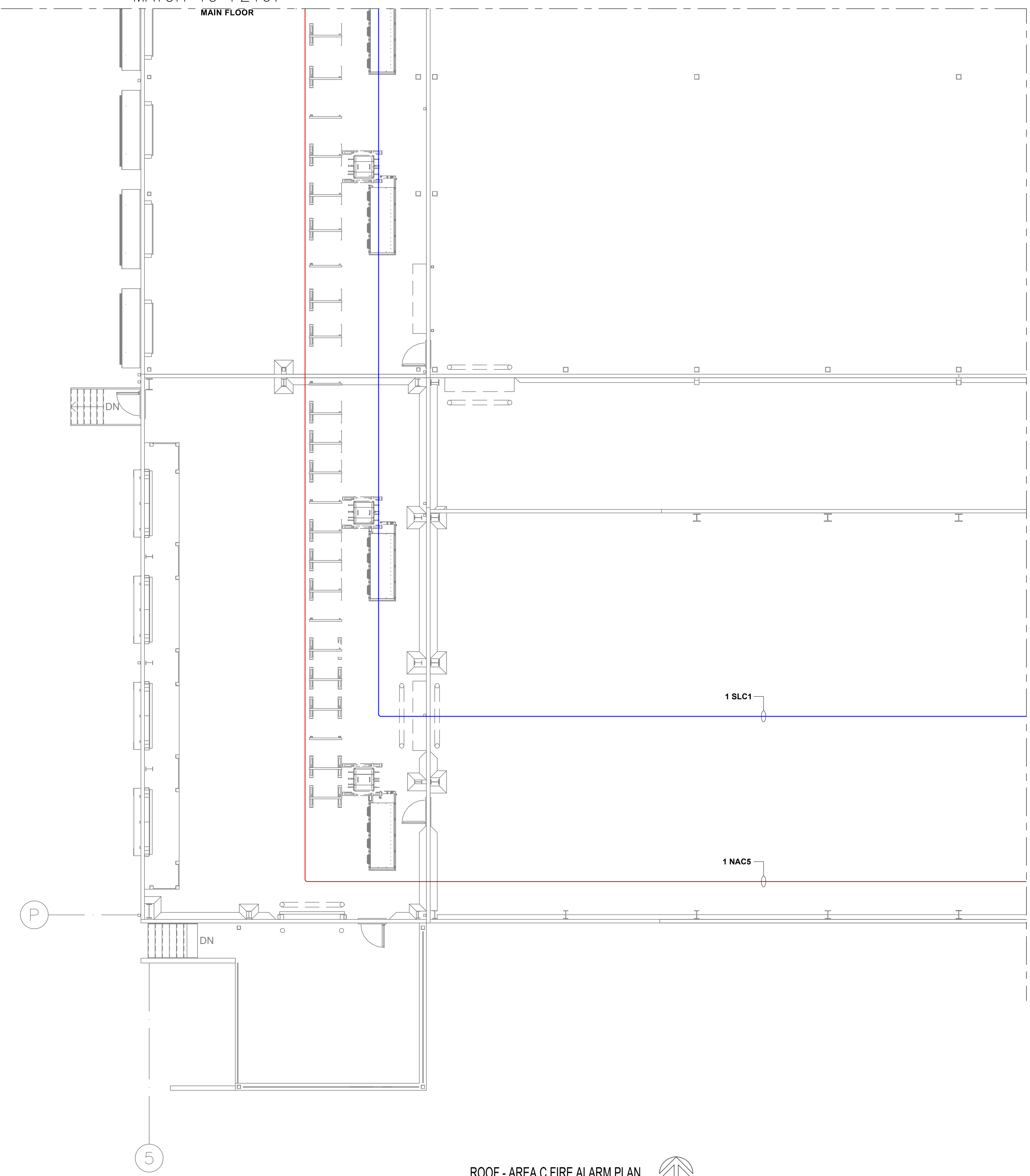


**ROOF - AREA B FIRE ALARM PLAN**  
 SCALE: 1/8"=1'-0"

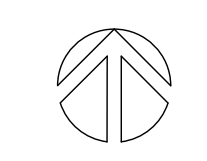


**KEY PLAN**  
 SCALE: NOT TO SCALE

MATCH TO FZ107  
MAIN FLOOR



**ROOF - AREA C FIRE ALARM PLAN**  
SCALE: 1/8"=1'0"



Circuit Legend		
Quantity	Circuit	Description
1	NACS	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
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Fire	Traffic

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**COASTAL PACIFIC FOOD DIST.  
FREEZER EXPANSION  
322 VALLEY AVENUE, NW  
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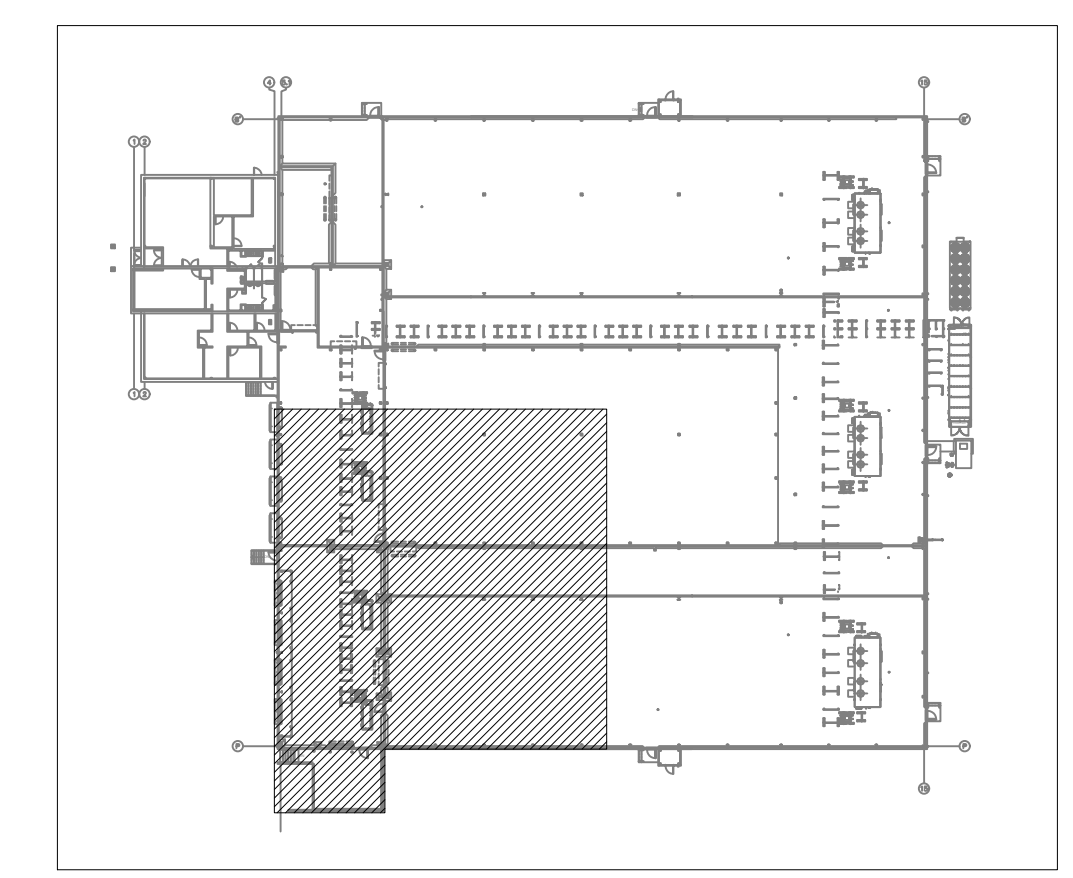
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Drawn By	A.P.
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Project Name	EVELER FREEZER EXPANSION
Project Number	26412

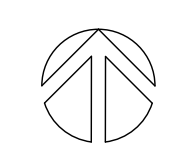
System Type  
**FIRE ALARM**

Sheet Name  
**ROOF AREA C FIRE ALARM PLAN**

Sheet Number  
**FZ109**  
SHEET 17 OF 19



**KEY PLAN**  
SCALE: NOT TO SCALE



MATCH TO FZ108

Circuit Legend		
Quantity	Circuit	Description
1	NAC5	14/2-ns = 14AWG 2 CONDUCTOR - NON-SHIELDED CABLE
1	SLC1	16/2-ns = 16AWG 2 CONDUCTOR - NON-SHIELDED CABLE

City of Puyallup  
Development & Permitting Services  
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Building	Planning
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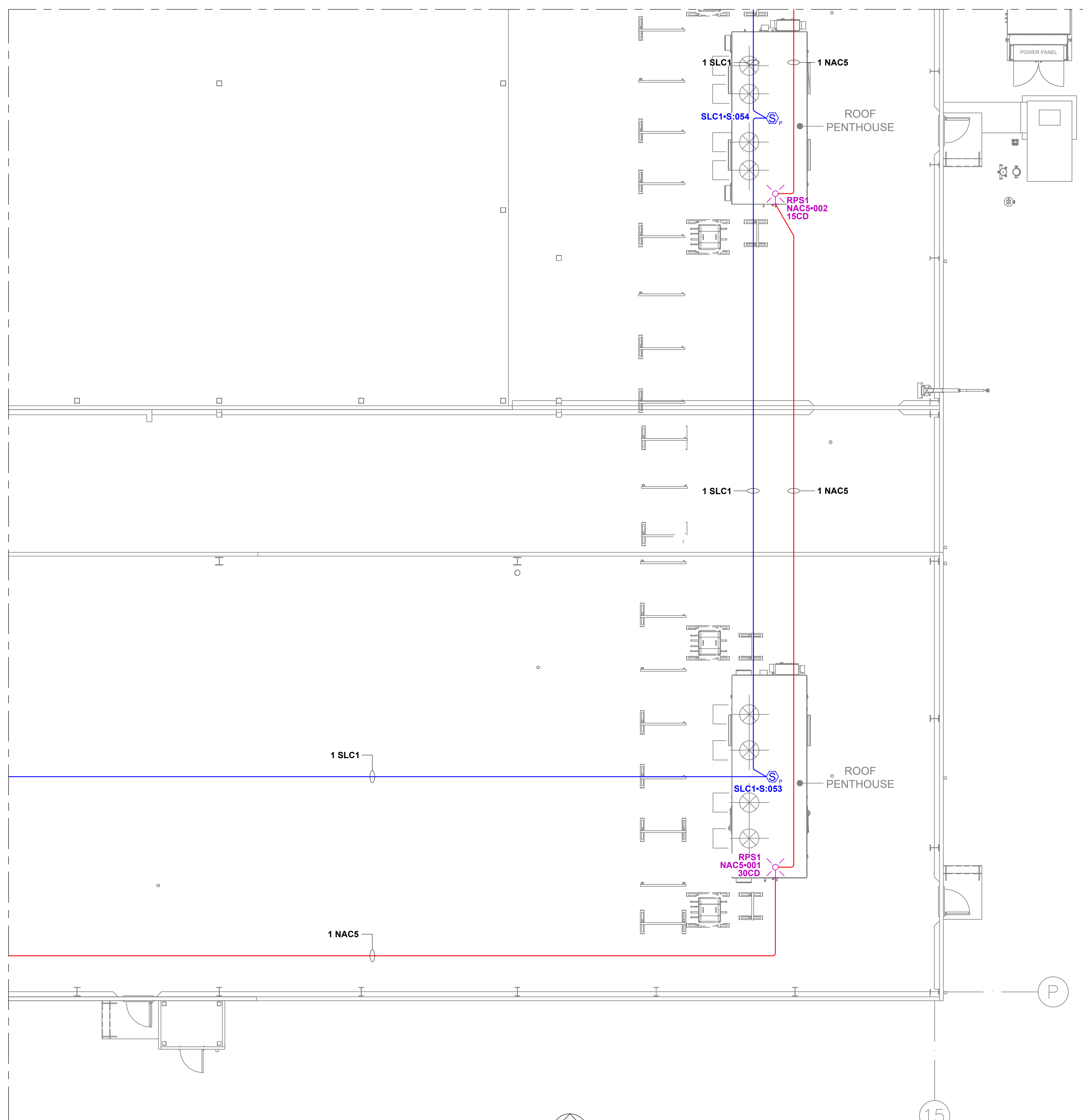
Drawn By	A.P.
Checked By	D.H.
Date	07/16/24
Project Name	EVELER FREEZER EXPANSION
Project Number	26412

System Type  
**FIRE ALARM**

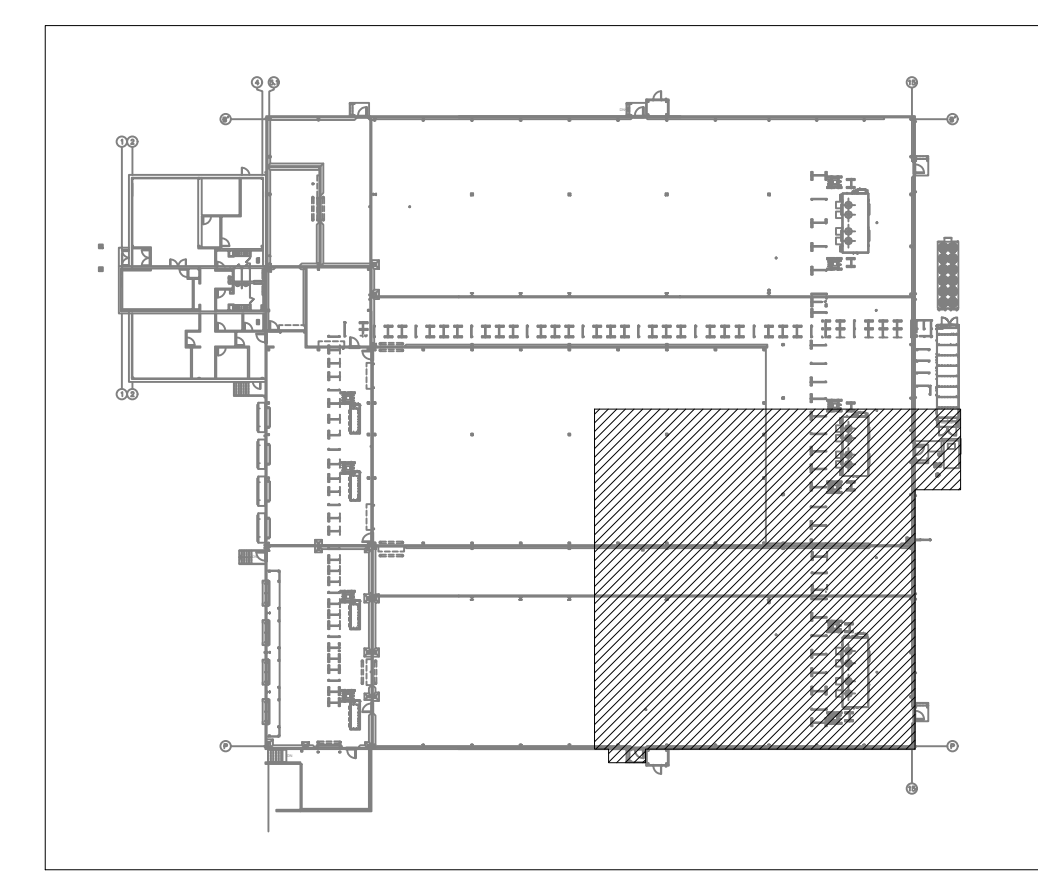
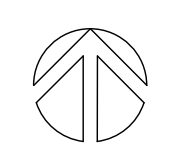
Sheet Name  
**ROOF AREA D FIRE ALARM PLAN**

Sheet Number  
**FZ110**  
SHEET 18 of 19

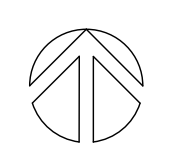
MATCH TO FZ109



**ROOF - AREA D FIRE ALARM PLAN**  
SCALE: 1/8"=1'0"



**KEY PLAN**  
SCALE: NOT TO SCALE



City of Puyallup  
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Engineering	Public Works
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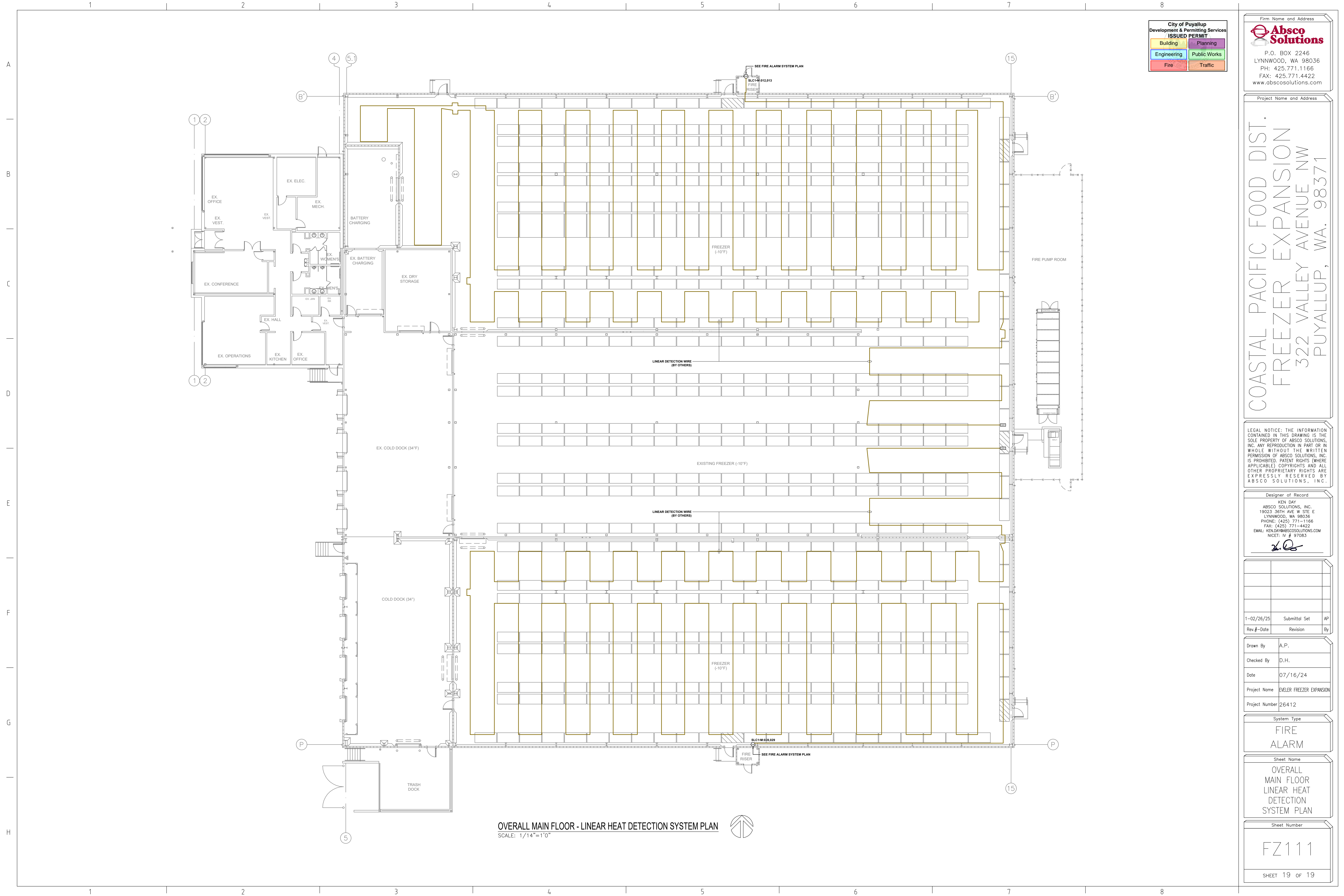
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Project Name	EVELER FREEZER EXPANSION
Project Number	26412

System Type  
**FIRE ALARM**

Sheet Name  
**OVERALL MAIN FLOOR LINEAR HEAT DETECTION SYSTEM PLAN**

Sheet Number  
**FZ111**  
SHEET 19 OF 19



**OVERALL MAIN FLOOR - LINEAR HEAT DETECTION SYSTEM PLAN**  
SCALE: 1/14"=1'-0"

