

CENTERIS DATA CENTER NEW SCALE & BATTERY ROOM

FAS SYSTEM ADDITION

1023 39TH AVENUE SOUTH EAST, PUYALLUP, WA 98374

RED HAWK
FIRE PROTECTION, LLC



Ever Vigilant

917 134th Ave SW, STE B-3
Everett, WA 98201
Phone: (425) 818-3313
WA CL# REDHAFF9010P
WA EL# REDHAFF8030D

SYMBOL	QTY	DESCRIPTION	MOUNTING REQUIREMENTS	SUPPLIER	PART NUMBER
	1	INTELLIGENT HEAT DETECTOR: 135° (FIXED TEMP)	4 SQUARE DEEP w/ 3" ROUND RING	NOTIFIER	FST-951 w/B300-6
	2	INTELLIGENT MANUAL PULL STATION	4 SQUARE DEEP w/ 1 GANG RING; MOUNTED AT 48" TO TOP	NOTIFIER	NBG-12LX
	1	INTELLIGENT MONITOR MODULE DUAL CIRCUIT	4 SQUARE DEEP	NOTIFIER	FDM-1
	3	WALL HORN w/ STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE of SETTING	4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM	SYSTEM SENSOR	P2WL

NOTES:
1- DEVICE SUBSCRIPT: NW=NEW RR=REMOVE & RELOCATE EX=EXISTING TO REMAIN AC=ABOVE CEILING RB=RELAY BASE WP=WATERPROOF WG=WIRE GUARD IS=ISO BASE
2- CABLING SHOWN IS FOR CIRCUIT REFERENCE ONLY AND DOES NOT INTENDED TO INDICATE THE EXACT PATHWAY.
3- DEVICES SHOWN ON DRAWINGS IN GRAY SCALE ARE EXISTING DEVICES AND MAY NOT BE INCLUDED IN THIS SYMBOL LEGEND UNLESS NOTED.
4- HORN/STROBE DECIBLE SETTING TO BE DETERMINED ON SITE, UNLESS OTHERWISE NOTED ON THE DRAWINGS. CAN BE FIELD ADJUSTED AT REQUEST OF AHJ.
5- ALL DEVICES WITH A WP SUBSCRIPT WILL REQUIRE THE USE OF AN OUTDOOR OR WP BACKBOX.

SYMBOL	DESCRIPTION	THHN	FPL	FPLP	WET	COLOR CODING	CIRCUIT TYPE	NOTES
C	1 PAIR 16AWG FIRE RATED CABLE	YES	972	60993B	AQ226		AUDIBLE (NAC) CIRCUIT	
D	1 PAIR 16AWG FIRE RATED CABLE	YES	971	60991B	AQ225		DATA (SLC) CIRCUIT	

NOTES:
1- DIFFERENT COLORS/STRIPE COMBINATIONS TO BE USED FOR DIFFERENT CIRCUIT TYPES. LABEL ALL CIRCUITS ACCORDINGLY
2- WIRE MANUFACTURER IS FOR REFERENCE PURPOSE ONLY. WHEN USING OTHER MANUFACTURE, ENSURE PROPER CROSS REFERENCE
3- FPLP CAN BE USED IN MOST ALL APPLICATIONS WITH THE EXCLUSION OF WET AND CIRCUIT INTEGRITY REQUIREMENTS
4- INSTALL WIRING PER NEC. USE CABLE TYPE CONSISTENT WITH NEC REQUIREMENTS, IE: PLENUM, RISER, UNDERGROUND, ETC.
5- THE "Y" FIBER OPTIC CABLE LISTED IS A BELDEN CABLE PART NUMBER AS WEST PENN NO LONGER SUPPORTS FIBER OPTIC CABLE
6- THIS CABLE MUST BE INSTALLED IN A CONTINUOUS PATH POINT-TO-POINT. ABSOLUTELY NO SPLICES ARE ALLOWED.
7- THIS IS A SPECIFIC CABLE. NO ALTERNATES ARE ALLOWED

NOTE #	DESCRIPTION
30	INSTALLATION OR INTERFACE LOCATION TO BE DETERMINED/VERIFIED ON-SITE
36	DEVICE ADDRESS ARE TO BE ASSIGNED BY FA CONTRACTOR & SET BY ELECTRICIAN FIELD TECHNICIAN ONCE ON-SITE
39	MODULE TO MONITOR EXISTING VESDA
45	ROUTE SLC CABLE FROM NEAREST ADDRESSABLE DEVICE OR FACP
46	LOOP/EXTEND NAC CIRCUIT TO ADDED DEVICE AND RETURN TO ORIGIN EXISTING NAC DEVICE

Line #	Qty	Part #	Description	Each	Each	Total	Total
1	1	CPUJ-3030D	Fire Alarm Control Panel: 10 SLC Loops, 3180 SLC Devices (CPU Only)	0.3400	0.3400	0.3400	0.3400
2	2	LCM-320	SLC Loop Control Module	0.1300	0.1300	0.2600	0.2600
3	2	LEM-320	SLC Loop Expander Control Module	0.1000	0.1000	0.2000	0.2000
4	257	FSP-951	Intelligent Photoelectric Smoke Detector: White	0.0002	0.0045	0.0514	1.1565
5	1	FIS-651	Intelligent Ionization Smoke Detector: White	0.0003	0.0005	0.0003	0.0005
6	4	FST-951	Intelligent Heat Detector - 135° Fixed Temp: White	0.0002	0.0045	0.0008	0.0180
7	261	B300-6	Intelligent Detector Base: White	0.0000	0.0000	0.0000	0.0000
8	12	OSI-90	Beam Detector Imager: 80day Field of View, 20-111ft or 39-223ft (Low & High Rpt) @ 90°	0.0070	0.0840	0.0840	0.0840
9	87	DNR	Duct Detector Housing	0.0000	0.0000	0.0000	0.0000
10	87	FSP-951R	Intelligent Photoelectric Smoke Detector for DNR Duct Smoke Housing	0.0003	0.0005	0.0261	0.3695
11	46	NBG-12LX	Addressable Manual Pull Station	0.0004	0.0050	0.0173	0.2300
12	16	FMM-1	Addressable Monitor Module	0.0004	0.0050	0.0064	0.0800
13	1	FMM-101	Addressable Mini Monitor Module	0.0004	0.0004	0.0004	0.0004
14	34	FDM-1	Addressable Dual Monitor Module	0.0002	0.0004	0.0082	0.2176
15	102	FOM-1	Addressable Control Module (NAC)	0.0004	0.0005	0.0098	0.6500
16	32	FRM-1	Addressable Relay Module	0.0002	0.0005	0.0074	0.2300
17	2	XP10-M	XP Module - 10 Class A/B Inputs	0.0035	0.0050	0.0070	0.1100
Total Current Draw:				1.0489	4.1395		

Control Panel: FACP Location: ON-SITE FACP Type: AMPS-24 (Panel PS)

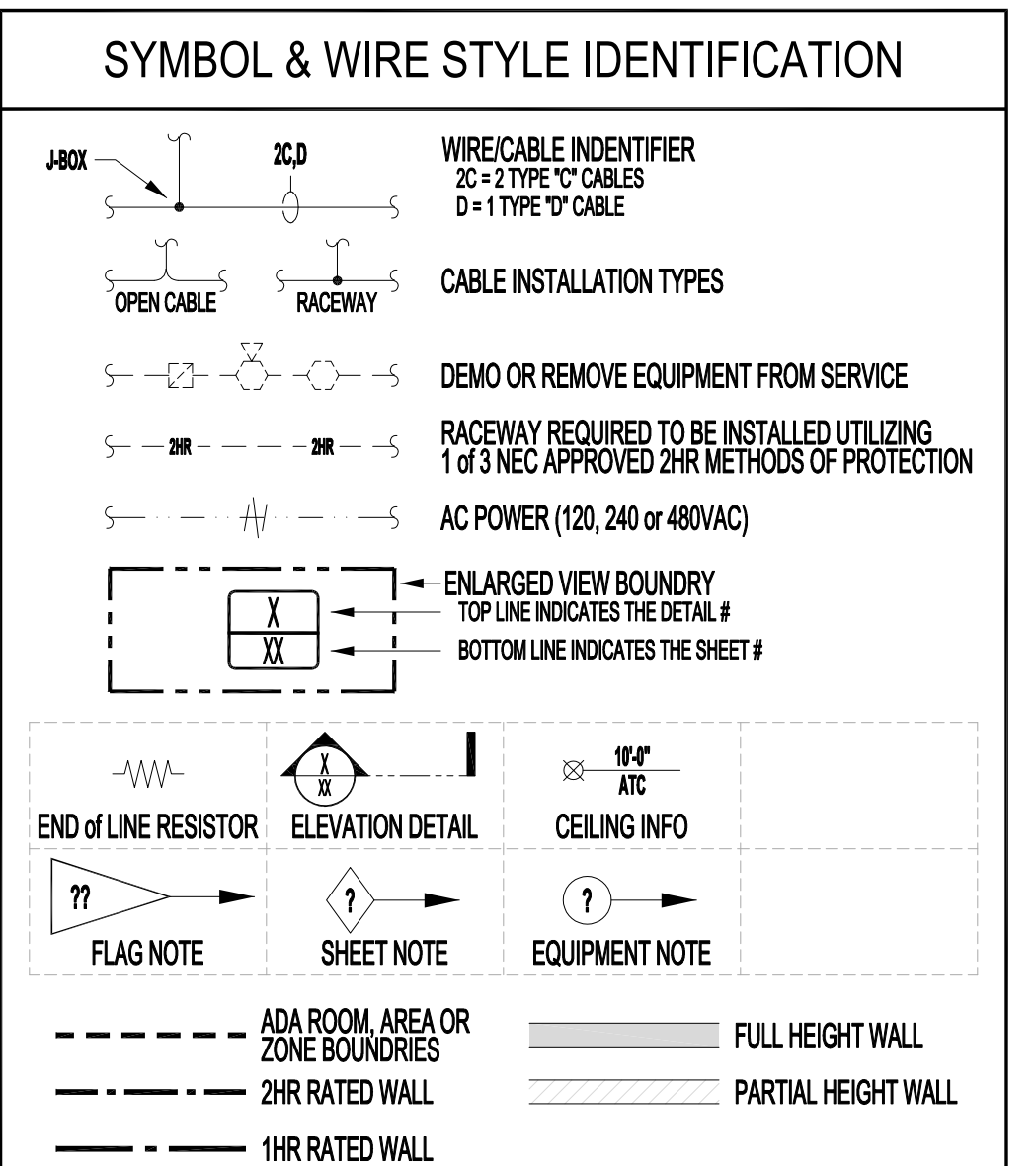
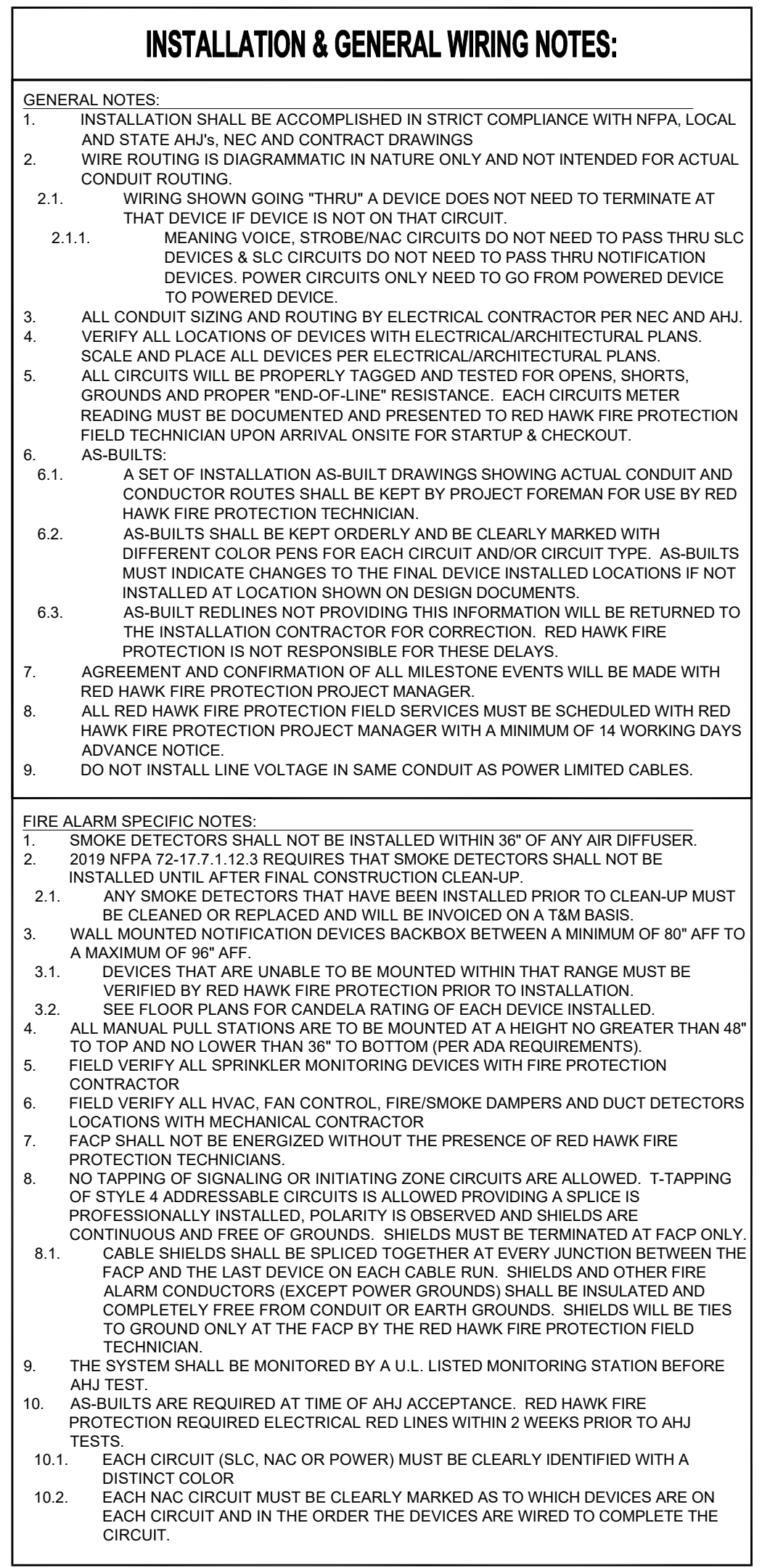
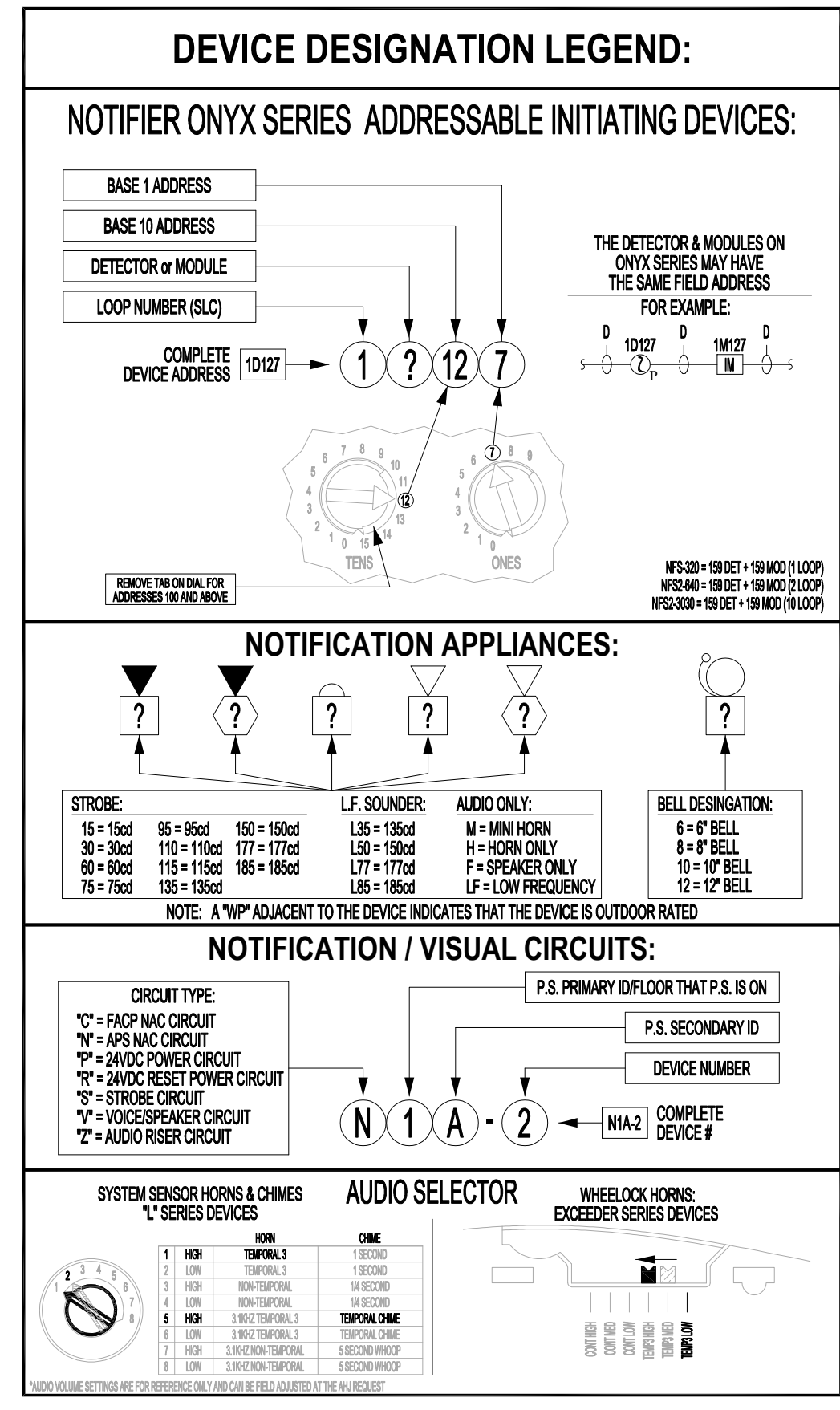
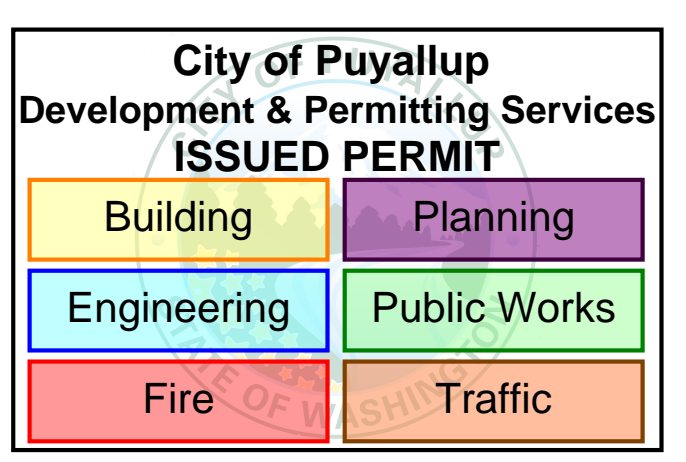
Hours Standby	Minutes Alarm	Total Standby Current	Total Alarm Current	Total Amps Required	% Used
24	5	1.0489	4.1395	4.139	83%

Backup Generator? Unknown Voice Evacuation? No Military? No Spare Circuit Capacity: 20% Spare Battery Load Factor: 25% Minimum Battery Size Needed (AH): 25.5 Spare Battery Capacity Required: 6.4 Actual Battery Size Required (AH): 31.9 Maximum Charger Capacity is: 200 AH Total AH Rated Batteries Supplied: 35.0

City of Puyallup Fire REVIEWED FOR COMPLIANCE DDrake 10/03/2024 1:49:40 PM

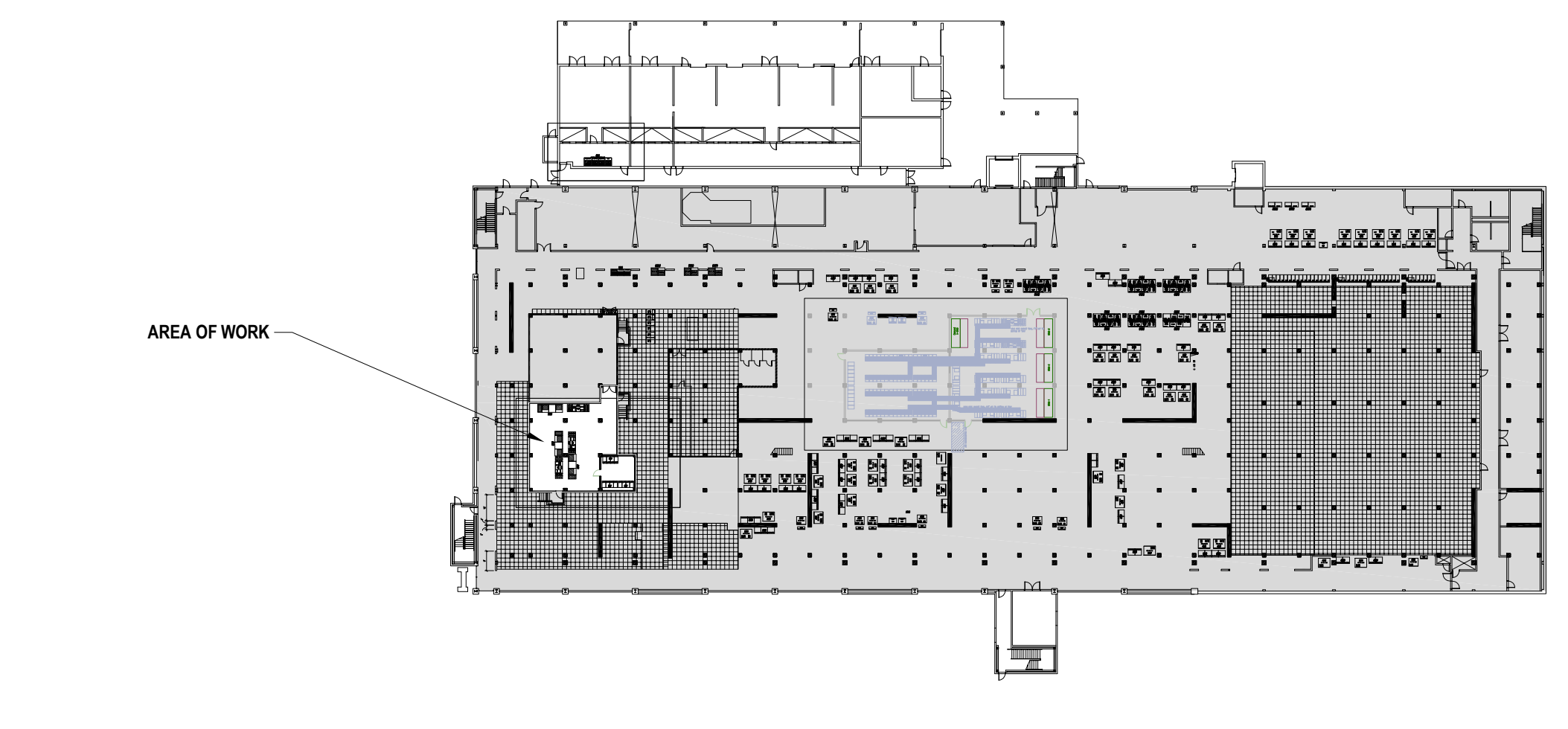
THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

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

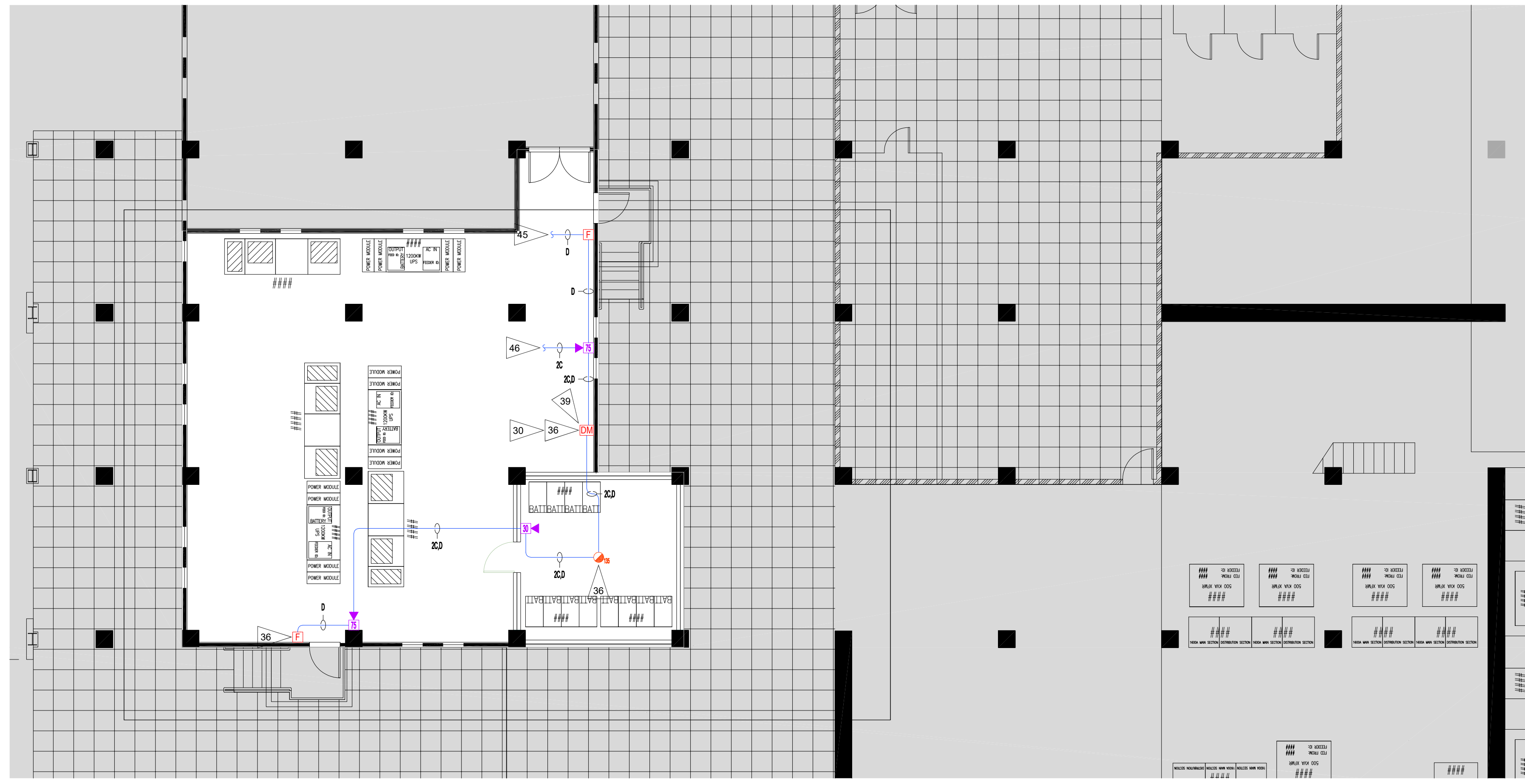


PROJECT CONTACT INFORMATION:	
CUSTOMER:	NAME: BURKE ELECTRIC
ADDRESS:	12605 44TH PL S TUKWILA, WA 98178
CONTACT:	NAME: PETE KELLY
PHONE:	425-241-7676
EMAIL:	pkelly@burkeelectric.com
FIRE ALARM / LIFE SAFETY PROVIDER:	NAME: RED HAWK FIRE PROTECTION
ADDRESS:	917 134TH AVE SW SUITE B-3 EVERETT, WA 98204
PHONE:	425-818-3313
SALES MAN:	JEREMY MUNSON JeremyM@redhawkfp.com EXT:
DESIGNER:	SEAN FODOR SeanF@redhawkfp.com EXT:

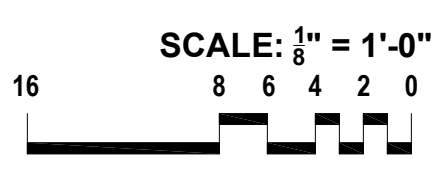
SCOPE OF WORK & DESIGN BASIS
LEVEL 1: MONITOR MODULE ADDED TO MONITOR VESDA SYSTEM (PROVIDED BY OTHERS); 2 PULL STATIONS ADDED AT EXITS; ADDRESSES TO BE ADDED ON SITE BY TECHNICIAN; 3 WALL MOUNTED HORN/STROBES TO BE ADDED IN THESE AREAS TO ENSURE COMPLETE COVERAGE. NEW HORN/STROBES TO BE REPLACEMENT OF DEMOLISHED ONES AND MAINTAIN CIRCUIT INTEGRITY BY MAINTAINING SAME CIRCUIT PLACEMENT/TERMINATIONS OF PREVIOUS DEVICES.



2 KEY PLAN SCALE: NOT TO SCALE



1 LEVEL 1 BATTERY ROOM FLOOR PLAN SCALE: 1/8" = 1'-0"



ISSUE DATE	BY	DESCRIPTION
09/13/2024	SDF	PERMIT SUBMITTAL SET

Contract With: BURKE ELECTRIC

12605 44TH PL S TUKWILA, WA 98178

Contract Name: CENTERIS DATA CENTER - SCALE & BATTERY ROOM

1023 39TH AVENUE SOUTH EAST PUYALLUP, WA 98374

FAS SYSTEM ADDITION PROJECT INFO, DETAILS, CALCS & FAS LAYOUT

Key Plan

Date: 09/13/2024 Job Number: XXXXXX Designer: SEAN D. FODOR Building Permit:

Sheet Number

FA-0.00 SHEET 1 OF 1