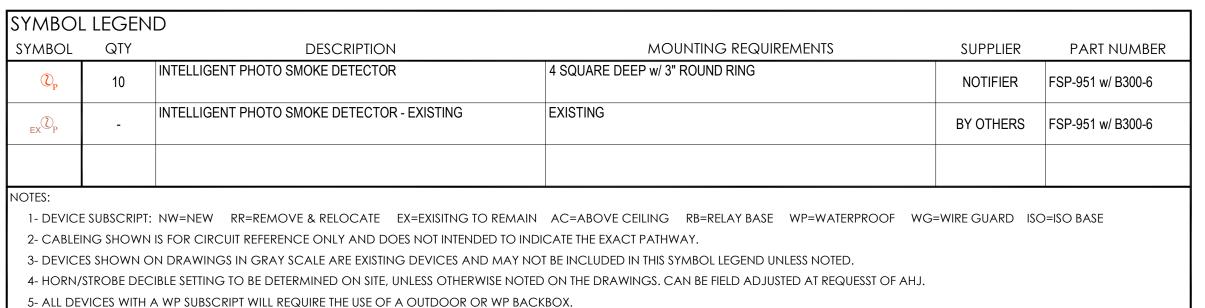
CENTERIS DATA CENTER L3

FAS SYSTEM MODIFICATION

1023 39TH AVENUE SOUTH EAST, PUYALLUP, WA 98374



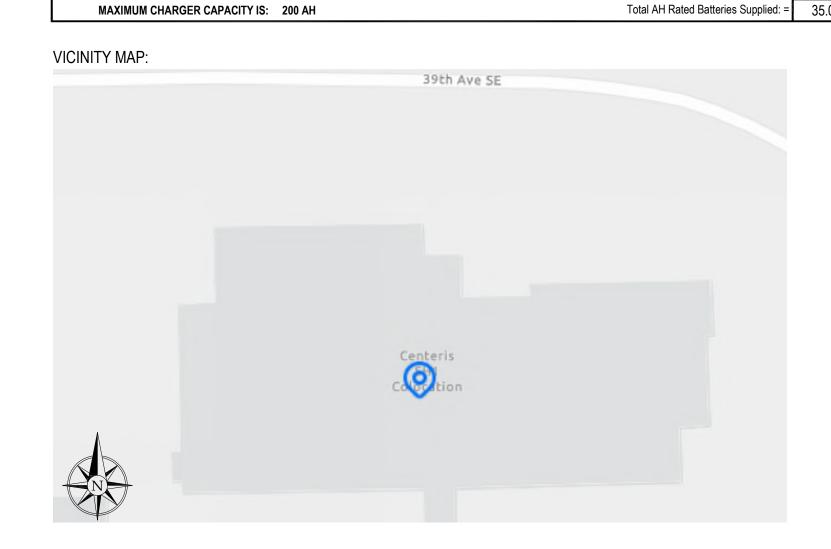
SYMBO	L DESCRIPTION	THHN	FPL	FPLP	WET	COLOR CODING	CIRCUIT TYPE	NOTES
D	1 PAIR 16AWG FIRE RATED CABLE	YES	971	60991B	AQ225		DATA (SLC) CIRCUIT	
** DIFF	ERENT COLORS/STRIPE COMBINATIONS TO BE US	ED FOR DIFFERENT (CIRCUIT TYPI	ES. LABEL ALL (CIRCUITS ACC	CORDINGLY		
	E MANUFACTURER IS FOR REFERENCE PURPOSE	-						
	P CAN BE USED IN MOST ALL APPLICATIONS WITH			•				
3- INST	TALL WIRING PER NEC. USE CABLE TYPE CONSIST	ENT WITH NEC REQU	JIREMENTS, I	E: PLENUM, RIS	ER, UNDERG	BROUND, ETC.		
4- THE	"Y" FIBER OPTIC CABLE LISTED IS A BELDEN CABL	E PART NUMBER AS	WEST PENN	NO LONGER SU	PPORTS FIBI	ER OPTIC CABLE		
5- THIS	S CABLE MUST BE INSTALLED IN A CONTINUOUS PA	ATH POINT-TO-POINT	. ABSOLUTLE	Y NO SPLICES	ARE ALLOWE	ED.		

Actual Battery Size Required (AH): 31.5

DEVICE ADDRESS ARE TO BE ASSIGNED BY FA CONTRACTOR & SET BY ELECTRICIAN FIELD TECHNICIAN ONCE ON-SITE ROUTE SLC CABLE FROM NEAREST ADDRESSABLE DEVICE OR FACP

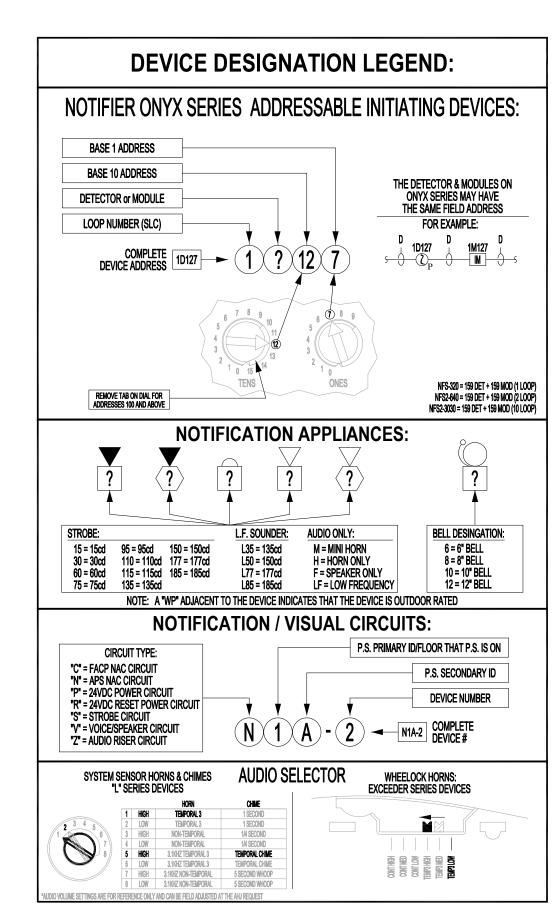
FACP Batte	ery Load & Back-up Calculation		
Control Panel:	FACP		
Location:	ON-SITE		
FACP Type:	AMPS-24 (Panel PS)	Each	Each

	Location:	ON-SITE				•	
FAC	CP Type:	AMPS-24 (Panel PS)		Each	Each	Total	Tota
Line#	Qty:	Part #:	Description:	Standby	Alarm	Standby	Alarr
1	1	CPU2-3030D	Fire Alarm Control Panel: 10 SLC Loops, 3180 SLC Devices (CPU Only)	0.3400	0.3400	0.3400	0.340
2	2	LCM-320	SLC Loop Control Module	0.1300	0.1300	0.2600	0.260
3	2	LEM-320	SLC Loop Expander Control Module	0.1000	0.1000	0.2000	0.200
4	267	FSP-951	Intelligent Photoelectric Smoke Detector: White	0.0002	0.0045	0.0534	1.201
5	1	FSI-851	Intelligent Ionization Smoke Detector: White	0.0003	0.0065	0.0003	0.006
6	3	FST-951	Intelligent Heat Detector - 135' Fixed Temp: White	0.0002	0.0045	0.0006	0.013
7	271	B300-6	Intelligent Detector Base: White	0.0000	0.0000	0.0000	0.000
8	10	OSI-90	Beam Detector Imager: 80deg Field of View, 20-111ft or 39-223ft (Low & Hig	jh P@: 0007 0	0.0070	0.0700	0.070
9	87	DNR	Duct Detector Housing	0.0000	0.0000	0.0000	0.000
10	87	FSP-951R	Intelligent Photoelectric Smoke Detector for DNR Duct Smoke Housing	0.0003	0.0065	0.0261	0.565
11	44	NBG-12LX	Addressable Manual Pull Station	0.0004	0.0050	0.0165	0.220
12	16	FMM-1	Addressable Monitor Module	0.0004	0.0050	0.0064	0.080
13	1	FMM-101	Addressable Mini Monitor Module	0.0004	0.0004	0.0004	0.000
14	33	FDM-1	Addressable Dual Monitor Module	0.0002	0.0064	0.0079	0.211
15	102	FCM-1	Addressable Control Module (NAC)	0.0004	0.0065	0.0398	0.663
16	32	FRM-1	Addressable Relay Module	0.0002	0.0065	0.0074	0.208
17	2	XP10-M	XP Module - 10 Class A/B Inputs	0.0035	0.0550	0.0070	0.110
				Total C	urrent Draw:	1.0357	4.149
ATTERY	/ LOAD (CALC for FACP:	FACP Max P.S. Rating: 5.000 Total Am	nps Required:	4.150	% Used:	83%
			T-1101 # 0 - 1 - 1-101-11	-			24.6
		Hours Standby	24 Total Standby Current: 1.0357		•	equired (AH):	24.9
		Minutes Alarm	5 Total Alarm Current: 4.1496	I otal An	np Minutes R	equired (AH):	0.3
		Backup Generator?	Unknown	Minimun E	Battery Size N	Needed (AH):	25.2
		Voice Evacucation?	No Spare Circuit Capacity: 20%	Spare E	Battery Capac	city Required:	6.3

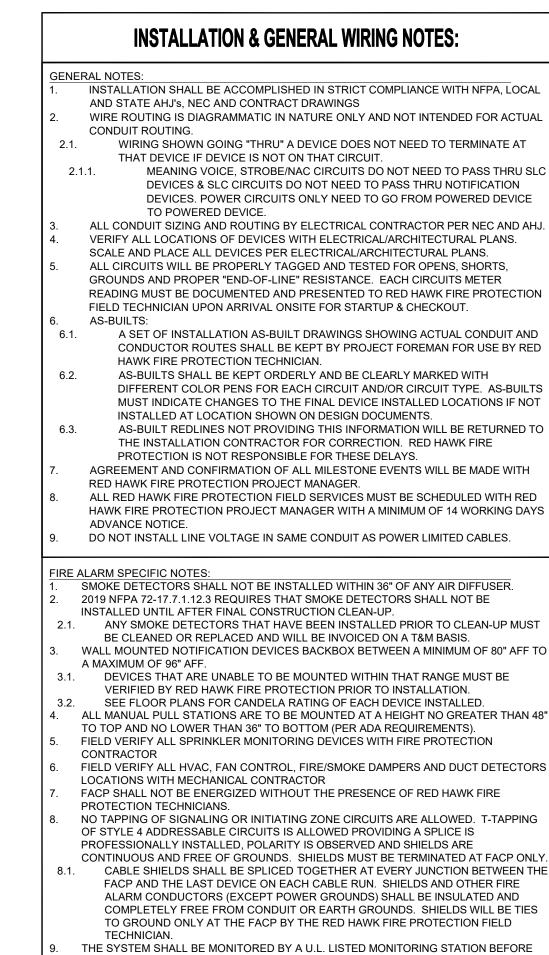


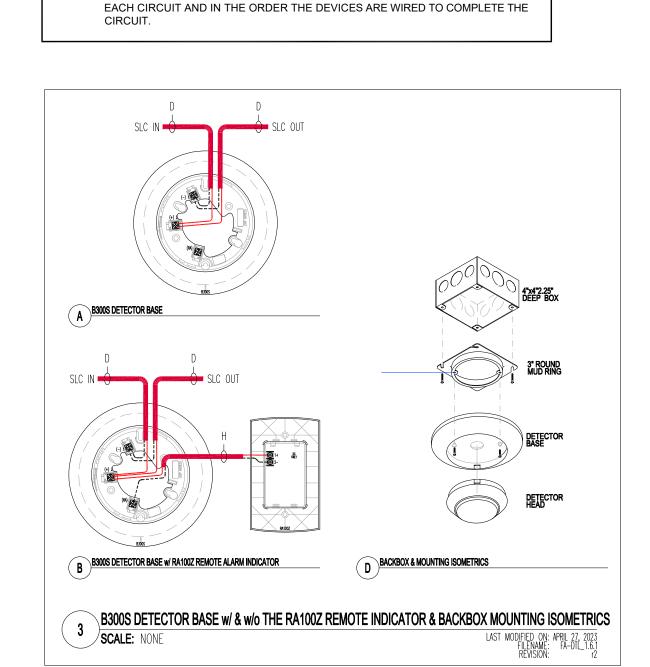
SCOPE OF WORK & DESIGN BASIS

FIRE ALARM SYSTEM MODIFICATION. 2 BEAM DETECTOR SET-UPS TO BE REMOVED BECAUSE NEW HVAC UNITS BLOCK SENSORS. SPOT SMOKE DETECTORS TO BE ADDED IN THESE AREAS TO TO ENSURE COMPLETE COVERAGE. EXISTING SEQUENCE OF OPERATIONS TO REMAIN IN PLACE AND UNCHANGED. AREAS OF WORK SHOWN IN THESE DRAWINGS ARE ONLY AREAS WITHIN RED HAWK'S SCOPE. DEVICE LOCATIONS SHOWN ON DRAWINGS ARE GENERAL AND MAY NOT BE THE EXACT INSTALL LOCATION IN REGARDS TO THE UNIT. LOCATIONS WILL BE VERIFIED ON-SITE.



J-BOX	2C = 2	CABLE INDENTIFIER Type "C" Cables Type "D" Cable	
OPEN CABLE	RACEWAY CABLE	INSTALLATION TYPES	
S[2]\S	<>> → DEMO	OR REMOVE EQUIPMEN	IT FROM SERVICE
S— — 2HR — — —	-2HR - 3HR	NAY REQUIRED TO BE II NEC APPROVED 2HR ME	NSTALLED UTILIZING THODS OF PROTECTION
S	$\sim - \sim \longrightarrow -$ AC PO	WER (120, 240 or 480VA	C)
\(\text{\text{X}}\)	(TOP L	RGED VIEW BOUNDRY INE INDICATES THE DETAIL # OM LINE INDICATES THE SHEI	ET#
-/\\\- END of LINE RESISTOR	ELEVATION DETAIL	⊠ <u>10'-0"</u> ATC CEILING INFO	
?	?>——	7	
FLAG NOTE	SHEET NOTE	EQUIPMENT NOTE	i !
A	DA ROOM, AREA OR ONE BOUNDRIES		FULL HEIGHT WALL
	HR RATED WALL		PARTIAL HEIGHT WALL
 1	HR RATED WALL		



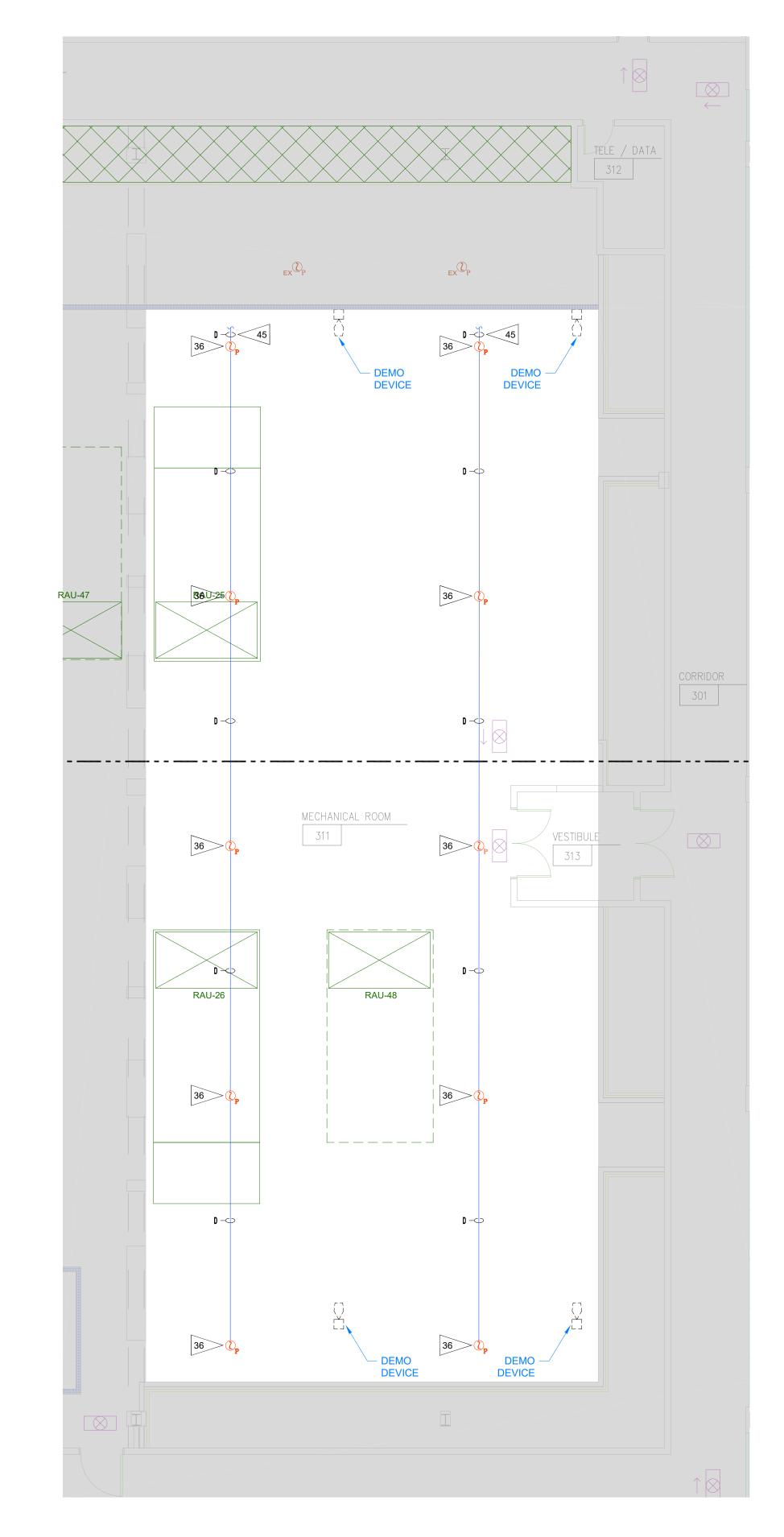


AS-BUILTS ARE REQUIRED AT TIME OF AHJ ACCEPTANCE. RED HAWK FIRE

10.2. EACH NAC CIRCUIT MUST BE CLEARLY MARKED AS TO WHICH DEVICES ARE ON



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











THESE FIRE ALARM DRAWINGS HAVE BEEN REVIEWED BY: MIKE SERESUN FIRE PROTECTION ENGINEERING TECHNOLOGY FIRE ALARM SYSTEMS - LEVEL III NICET CERTIFICATION # 101668 CERTIFICATION EXPIRES -11/01/2027

Approvals Required

Revisions ISSUE DATE BY DESCRIPTION

BURKE ELECTRIC

12605 44TH PL S TUKWILA, WA 98178

CENTERIS DATA CENTER L3

> 1023 39TH AVENUE SOUTH EAST PUYALLUP, WA 98374

FAS SYSTEM MODIFICATION

PROJECT INFO, FAS LAYOUT, **CALCS & DETAILS**

05/01/2025

Sheet Number FA-0.00