#### FIRE ALARM GENERAL NOTES NOTE# NOTE TEXT ALL CIRCUIT POLARITY SHALL BE MAINTAINED. SHIELD CONTINUITY SHALL BE MAINTAINED THROUGH OUT ALL SHIELDED CIRCUITS. SHIELDS SHALL BE GROUNDED AT ONLY ONE POINT (THE EQUIPMENT HEAD END UNLESS NOTED OTHERWISE). ALL CIRCUITS SHALL BE FREE OF GROUNDS, WIRE TO WIRE SHORTS, AND NOTIFICATION APPLIANCE CIRCUITS (NAC) & INITIATING DEVICE CIRCUITS (IDC) ARE SUPERVISED. NO PARALLÈL BRANCHING (TEE-TAPPING) SHALL BE PERMITTED. NON-STYLE 6 & 7 SIGNALING LINE CIRCUITS (SLC) ALLOW PARALLEL BRANCHING (TEE-TAPPING) AT DEVICES AND RISER BOXES ONLY ALL FIRE ALARM CONDUIT SHALL BE SIZED TO MEET OR EXCEED THE NEC MINIMUM REQUIREMENTS. ALL FIRE ALARM CONDUIT SIZE SHALL BE 3/4" MINIMUM UNLESS SHOWN OTHERWISE. STUB-UPS TO INDIVIDUAL DEVICES INSTALLATION MATERIALS (I.E. CONDUIT, FITTINGS, HANGERS, STANDARD BOXES, ETC.) ARE NOT PROVIDED BY MIDWEST ALARM SERVICES. ON OPEN WIRE INSTALLATIONS CONDUIT SHALL BE PROVIDED BY OTHERS THROUGH ALL INACCESSIBLE AREAS (I.E. ABOVE HARD CEILINGS, STUB-UPS THROUGH ENCLOSED WALLS, ECT.) AND IN ALL EXPOSED AREAS (I.E. MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.). MANUAL PULL BOXES SHALL BE MOUNTED 48" AFF TO THE WALL-MOUNTED AUDIBLE/VISUAL & VISUAL ONLY DEVICES SHALL BE MOUNTED 80" AFF TO THE BOTTOM OF THE DEVICE OR 6" FROM THE CEILING TO THE TOP OF THE DEVICE WHICHEVER IS LOWER. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRIC CODE, NFPA CODES, LOCAL CODES, AUTHORITIES HAVING JURISDICTION AND ALL OF THE MANUFACTURERS REQUIREMENTS. ALL FIRE ALARM CONTROL RELAYS SHALL BE MOUNTED WITHIN 3' OF THE DEVICES THEY CONTROL. ALL RELAY CONTROL CIRCUITS SHALL BE 12. ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED OR

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	CODE REFERENCES							
	#	REFERENCED CODE	YEAR					
	1	International Building Code (IBC)	2018					
	2	International Fire Code (IFC)	2018					
	3	International Mechanical Code (IMC)	2018					
	4	NFPA 70 National Electrical Code	2017					
	5	NFPA 72 National Fire Alarm Code	2016					

13. ALL FIRE ALARM PANELS & EQUIPMENT CABINETS REQUIRE A DEDICATED 120VAC CIRCUIT FOR PRIMARY POWER. FIRE ALARM AC POWER CIRCUITS

SHALL BE PERMANENTLY IDENTIFIED AT THE DISTRIBUTION PANEL AND

LABELED FOR DISTINCT IDENTIFICATION.

INSIDE THE FIRE EQUIPMENT CABINETS SERVED.

### AUTHORITY HAVING JURISDICTION

City of Lee's Summit, MO

#### PROJECT NARRATIVE

This project is a tenant space remodel within an existing retail building, including a remote storage area within the building. It is use group M and fully sprinklered. Per the contract documents, a new local fire alarm system is being provided for the tenanat space; It shall be monitored by the building fire alarm system and receive the sprinkler system waterflow alarm signal to activate horn/strobe occupant notification. It is assumed that central station monitoring is done by the building FACP. The signals provided to the building FACP were not specified, but shall include common alarm and common trouble at a minimum.

#### RTU & AHU SCHEDULE

(As listed on contract drawing M01.01)

RTU-1 3,000 CFM RTU-2 3,000 CFM

RTU-3 2,000 CFM AHU-1 600 CFM (detection not required)

## BATH & BODY WORKS

SUMMIT WOODS CROSSING 1702 NW CHIPMAN ROAD, SPACE M8-A LEE'S SUMMIT, MO 64081 Fire Alarm System **DRAWING INDEX:** 

Sheet:	Title:	Revision #:	Date Issued:
FA-0	COVER PAGE & CALCULATIONS		04.09.24
FA-1	FIRE ALARM FLOOR PLAN & RISER DIAGRAM		04.09.24
FA-2	MOUNTING & WIRING DETAILS		04.09.24

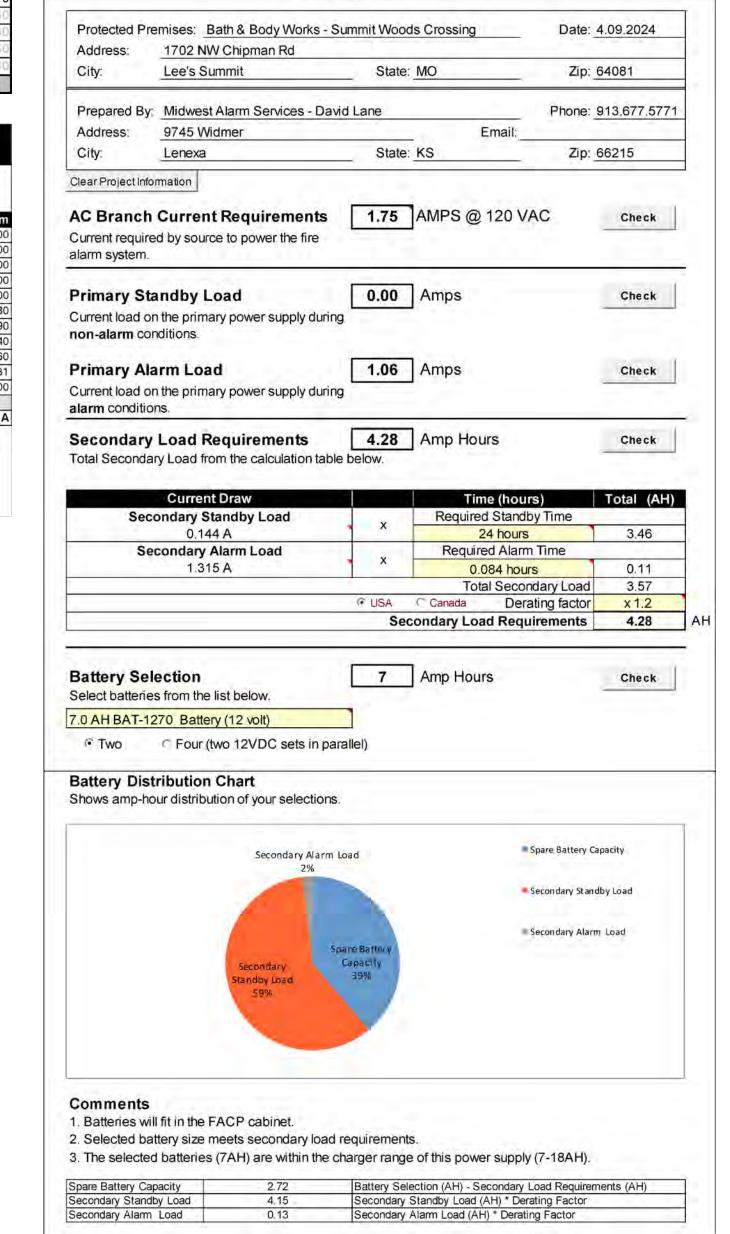
N/A	P3	- 0	0.000 A 0.00	O A #DIV	/01 0 Ft	14ga solid Cu	20.4 0.00	0.00 V	20.40		
N/A	P4	0	0.000 A 0.0	10 A #DIV	70) - O.Ft	14ga solid Cu	20.4 0.00	0.00 V	20:40		
N/A	P5	0	0,000 A 0.0	IO A #DIV	701 0 Ft	14ge solid Cu	20.4 0.00	0.00 V	20.40		
N/A	PB -	-0	0.000 A 0.0	O A #DIV	70! 0 Ft	14ga solid Cu	20.4 0.00	0.00 V	20.40		
TOTALS		8	0.858 A 3.0	00 A 28.6							
	NOTIFIER* by Honeywell				Device Current Draw						
	NFW-50X Fire Alarm Control Panel										
			Quan	tity x [device o	current draw] = 1	total current draw	per device (in amps)				
	Part N	lumbe	r.	Qty	Primary N	lon-Alarm	Primary Alarm	Secondary No	n-Alarm		
	Main	Circuit	Board	1	× [0.00000	] = 0.00000	x [0.00000] = 0.00000	x[0.14100]	= 0.14100		
	PC2R	L95		4	×[0.00000	] = 0.00000	x [0.16500] = 0.66000	×[0.00000]:	0.00000		
	SRL1	5		2	x [0.00000	] = 0.00000	× [0.04300] = 0.08600	×[0.00000]:	0.00000		
	PC2R	L15		1	x [0.00000	] = 0.00000	× [0.07100] = 0.07100	×[0.00000]:	0.00000		
	SCRL	15		1	x [0.00000	] = 0.00000	x [0.04100] = 0.04100	×[0.00000]:	0.00000		
	FSP-9	951		1	x [0,00030	] = 0.00030	× [0.00000] =	× [0.00030] :	0.00030		
	FSP-9	51R		3	x [0.00030	] = 0.00090	x [0.00000] =	x [0.00030] :	0.00090		
	FMM-	1		1	x [0,00040	] = 0.00040	×[0.00000] =	x[0.00040]:	0.00040		
	NBG1	2LX		2	x [0.00030	] = 0.00060	x [0.00000] = 0.00000	x[0.00030]:	0.00060		
	FRM-	1		3	x [0,00027	] = 0.00081	× [0.00000] =	×[0.00027]:	0.00081		
	Max	Alarm D	)raw - All Addressab	le Dev 1	×[0.00000	] = 0.00000	x [0.20000] = 0.20000	×[0.00000] =	0.00000		
			Total (Ampe			0.0030 A	1.0580 A	T I	0.1440 A		
	Part N	lumbe	7	Oty	Secondary	Alarm					

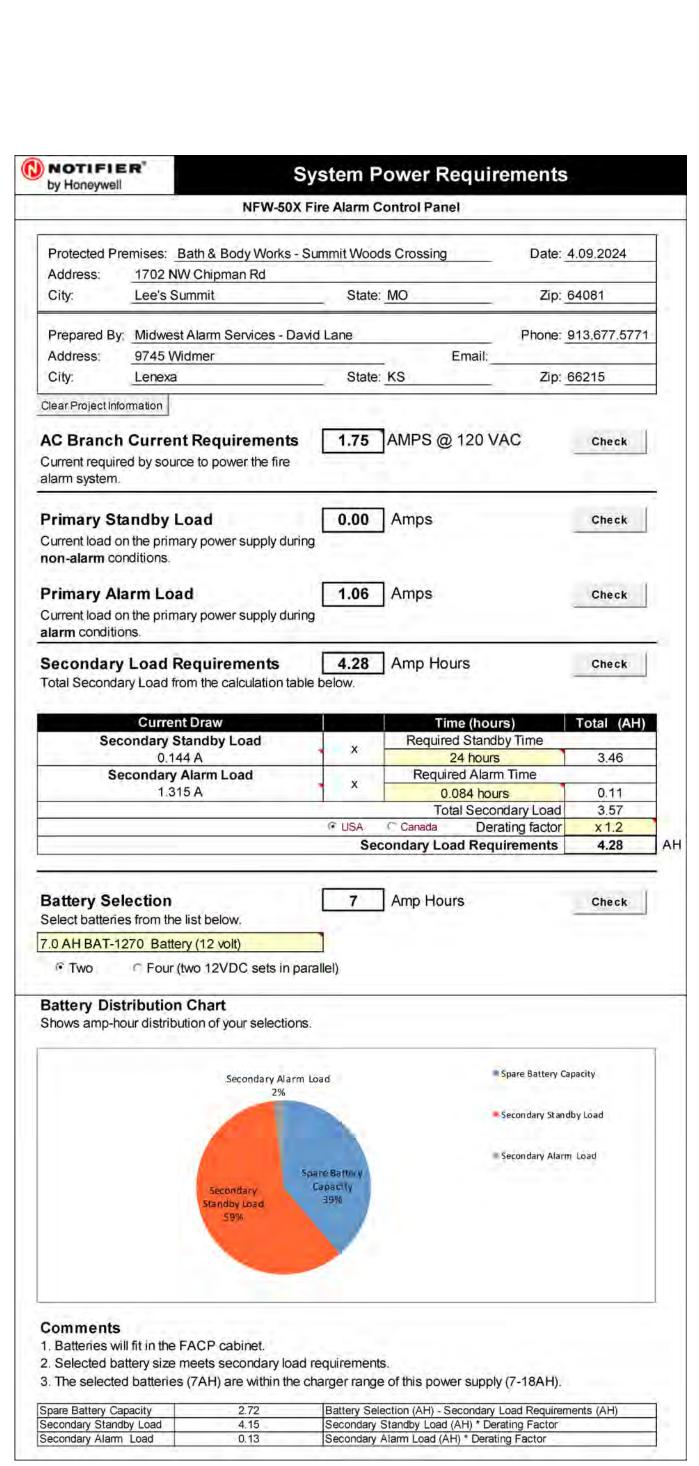
x [0.25700] = 0.2570

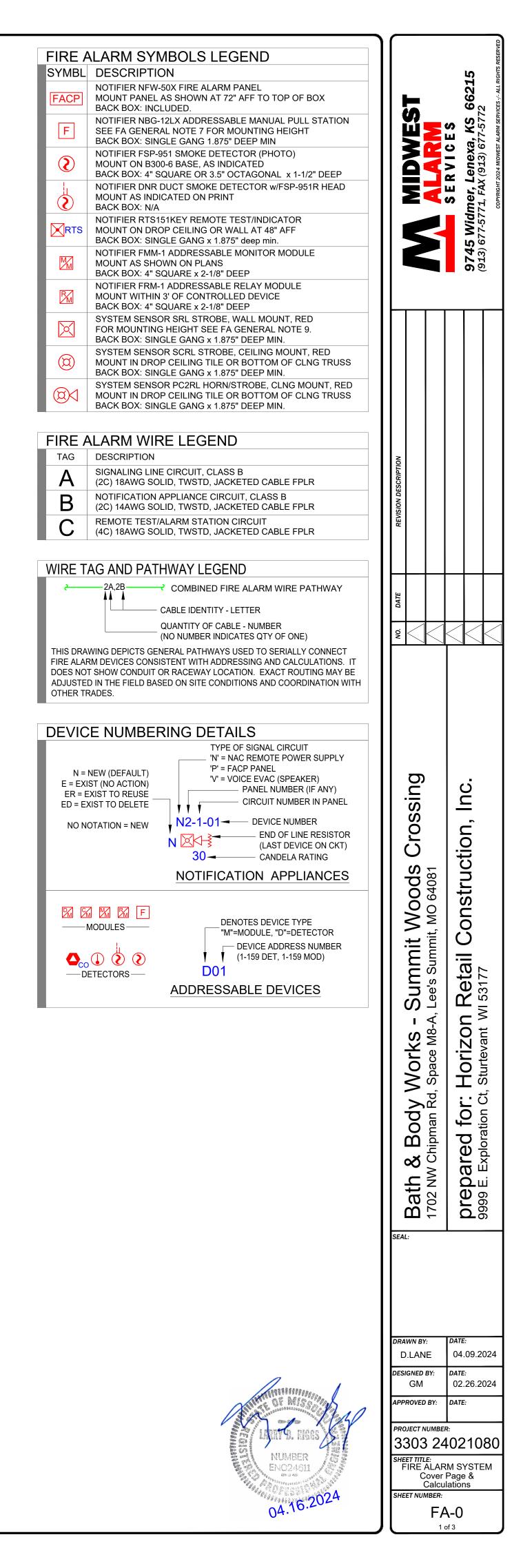
NOTIFICATION POWER SUMMARY - HORN/STROBE CIRCUITS

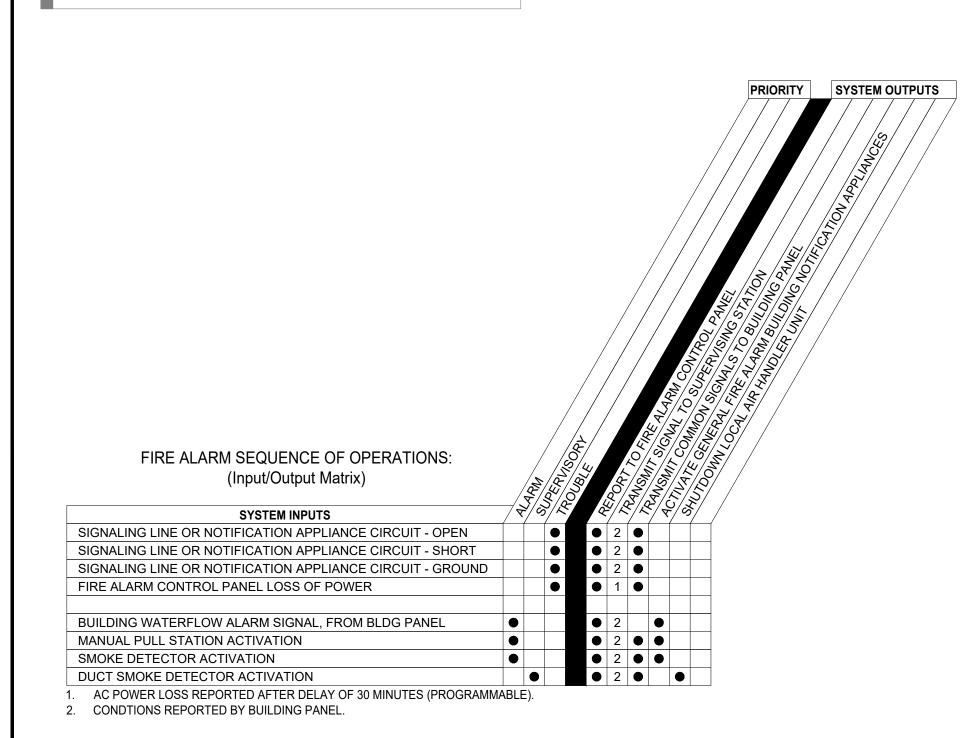
FACP Circuit Qty Alm Load Max. % Loaded Length wire type Volts Line Ω Load Ω Vdrop endV Retail area P1 6 0.528 A 2.50 A 21.12% 150 Ft 14ga solid Cu 20.4 0.92 38.6 0.49 V 19.9

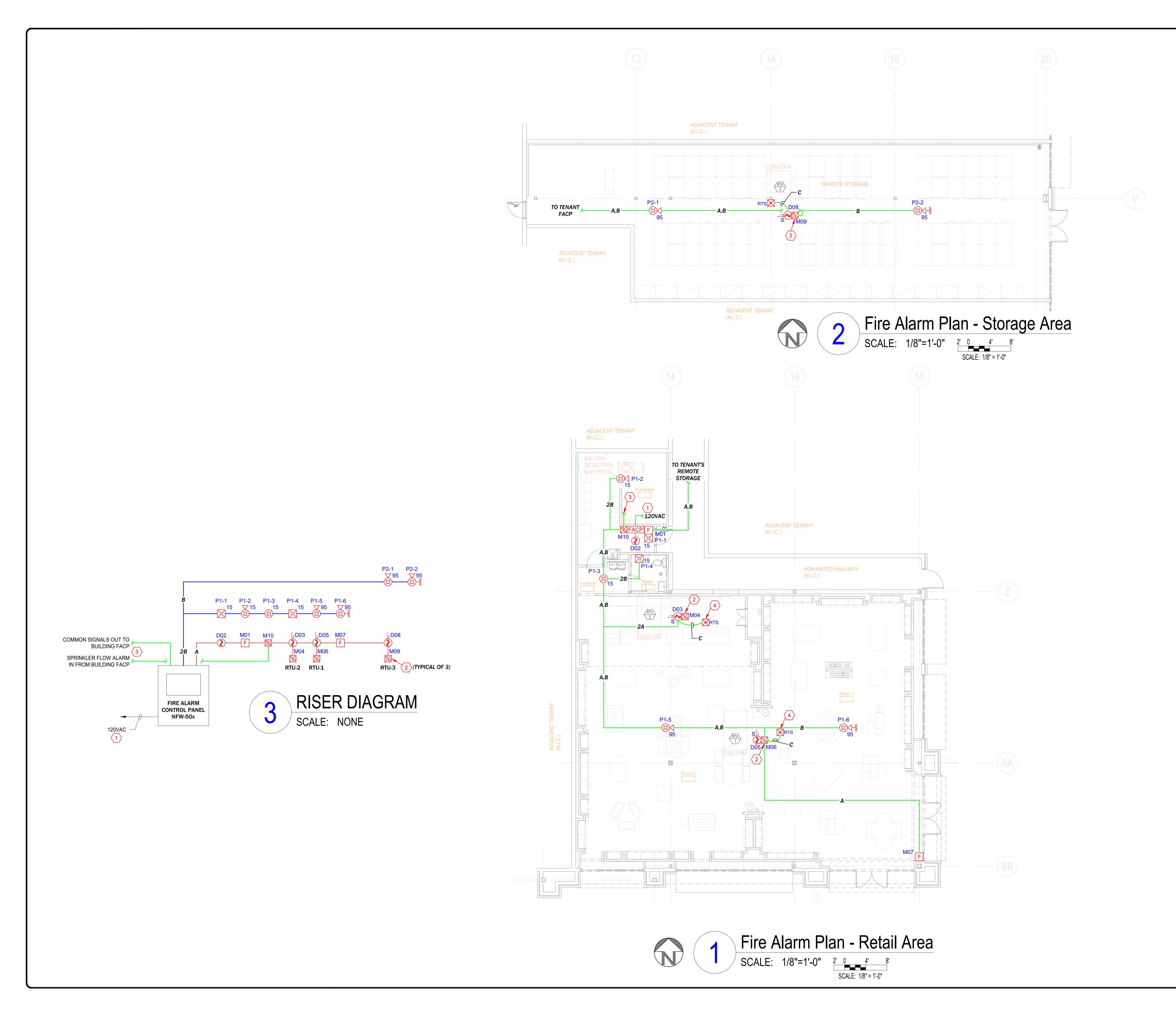
Storage area P2 2 0.330 A 2.50 A 13.20% 105 Ft 14ga solid Cu 20.4 0.64 61.8 0.21 V 20.1





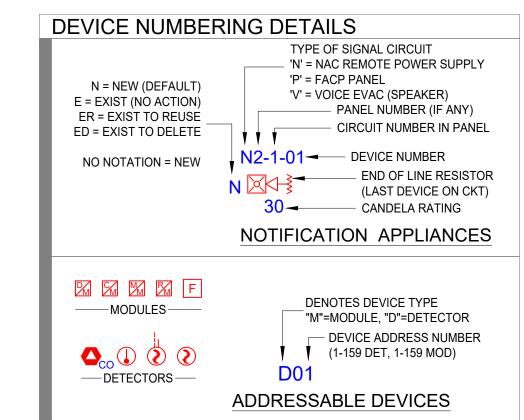




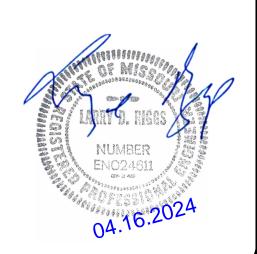




# CABLE IDENTITY - LETTER QUANTITY OF CABLE - NUMBER (NO NUMBER INDICATES QTY OF ONE) THIS DRAWING DEPICTS GENERAL PATHWAYS USED TO SERIALLY CONNECT FIRE ALARM DEVICES CONSISTENT WITH ADDRESSING AND CALCULATIONS. IT DOES NOT SHOW CONDUIT OR RACEWAY LOCATION. EXACT ROUTING MAY BE ADJUSTED IN THE FIELD BASED ON SITE CONDITIONS AND COORDINATION WITH OTHER TRADES.



KEYE	O NOTES	DWG SHEET # FA-1						
KEY#	NOTE TEXT							
1	120VAC DEDICATED AC POWER CIF TO BE PROVIDED BY ELECTRICAL (	,						
2	CONNECT RELAY MODULE TO RTU ALARM IN ACCORDANCE WITH I/O I							
3	INTERFACE TO BUILDING FACP TO WATERFLOW ALARM TO ACTIVATE NOTIFICATION. BUILDING FACP TO CALLED OUT IN CONTRACT DOCUMLANDLORD AND BLDG FA CONTRACT	TENANT OCCUPANT  MONITOR TENANT FACP AS  MENTS. COORDINATE WITH						
4	DUCT DETECTOR REMOTE ALARM/ DETERMINED IN FIELD IN COORDIN							



D.LANE

D.LANE

D.LANE

DATE:

04.09.2024

DATE:

02.26.2024

APPROVED BY:

DATE:

PROJECT NUMBER:

3303 24021080

SHEET TITLE:

FIRE ALARM SYSTEM
Floor Plan Layout
Riser Diagram

sing

Cros

Summit Woods Lee's Summit, MO 64081

Works

Body

Bath &

prepared for: Horizon Retail Construction, 9999 E. Exploration Ct, Sturtevant WI 53177

FA-1

