CODE ANALYSIS

BUILDING INFORMATION:

- A) OCCUPANCY CLASSIFICATION(S): B
- B) OCCUPANCY LOAD(S): 83 OCC
- C) SPRINKLERS: YES
- D) CONSTRUCTION TYPE: IIB E) BUILDING HEIGHT: 1 STORY
- F) PROJECT SQUARE FOOTAGE: ~6,146 S.F.
- G) APPLICABLE CODES:
- 2021 INTERNATIONAL FIRE CODE
- 2019 NFPA 72
- 2021 NEC
- STATE AND LOCAL MARSHAL REGULATIONS
- H) CIRCUIT CLASSIFICATION: POWER LIMITED
- I) PARCEL NUMBER: 6021010051

FPS1 Additiona	l Load Ba	ttery Ca	lculatio	n	5/3/2024			
	PROJECT NAME	: JD SPORTS TI						
	Required Standby Time		Hours					
	Required Alarm Time		Minutes					
		Branch Cu						
	AC Branch Curr	rent: 2.08	Amps	0	120V			
Maximum NAC Output								
	Panel I		Amps					
	Circuit I	Max: 3.00	Amps					
	Regula	ted Load in	Standby					
		Number	Current		Total Current			
Device Type	Model	of Devices	(Amps)		(Amps)			
TOTAL STANDBY LOAD					0.000000			
	Regul	ated Load in	n ALARM	_				
		Number	Current		Total Current			
Device Type	Model	of Devices	(Amps)		(Amps)			
FPS1 Additional Load.1 (See Voltage Drop Ca	culations)		1.08700)0 =	1.087000			
TOTAL ALARM LOAD					1.087000			
	Bat	tery Require	ements		1.007000			
Standby Load	Bat	tery nequire		andby	Time in Hours			
Current (Amps)		0.000000	X 24.0000	-	0.000000			
Alarm Load		0.000000			ne in Hours			
Current (Amps)		1.087000	X 0.25000		0.271750			
Total Ampere Hours (before derating factor)					0.271750			
Derating Factor				Х	1.2			
TOTAL AMPERE HOURS REQUIRED				=	0.326100			
BATTERIES TO BE PROVIDED (2 -	12v)			F	IELD VERIFY			

NOTE: THE ABOVE BATTERY CALCULATION IS A COMBINED TOTAL OF THE ADDITIONAL LOADS THAT WILL BE ADDED FROM THE SCOPE OF THIS PROJECT. FIELD VERIFY THE SIZE OF THE EXISTING BATTERIES AND UPSIZE ACCORDINGLY.

Date			5/3/2024								
Project N	lame		JD SPORTS	TI							
Circuit Nu	umber		FPS1.1								
Nominal System Voltage			20.4	volts	Wire Resistance						
Minimum	Device Vo	Itage	16.0	volts	Gauge Per 1000						
Distance from source to 1st device			45	feet	14 3.07						
Wire Gaug	ge for bal	ance of circuit			14	3.07]				
Max Outp	out Current	:	3.00	amps	ו	S	peaker ID	S1.1.			
	uit Curren			amps	1		NAC ID				
Spare Current Capacity		20%		1		I					
End of Line Voltage		19.16	volts	1							
8		System Sen	sor	1							
Circuit is within limits				Distance	Voltage	Drop					
Speaker	NAC	Device Model #	Device	Device	Previous	at	From	Percen			
Identifier	Identifier	and Candela	Wattage	Current	Device	Device	Source	Drop			
S1.1.1	N1.1.1	SPSCRL 75	1/2	0.111	45	20.10	0.300	1.47%			
S1.1.2	N1.1.2	SPSCRL 15	1/4	0.041	17	20.00	0.402	1.97%			
S1.1.3	N1.1.3	SPSCRL 15	1/4	0.041	16	19.91	0.494	2.42%			
S1.1.4	N1.1.4	SPSCRL 115	1/2	0.158	44	19.66	0.736	3.61%			
S1.1.5	N1.1.5	SPSCRL 115	1	0.158	24	19.56	0.844	4.14%			
S1.1.6	N1.1.6	SPSCRL 15	1/4	0.041	31	19.45	0.954	4.68%			
S1.1.7	N1.1.7	SPSCRL 30	1	0.063	16	19.39	1.007	4.94%			
S1.1.8	N1.1.8	SPSCRL 115	1	0.158	39	19.28	1.120	5.49%			
S1.1.9	N1.1.9	SPSCRL 115	1	0.158	37	19.21	1.192	5.84%			
S1.1.10	N1.1.10	SPSCRL 115	1	0.158	46	19.16	1.237	6.06%			
Totals			6 3/4	1.087	315						
		doubled in the calculatior must not be lower than		•							



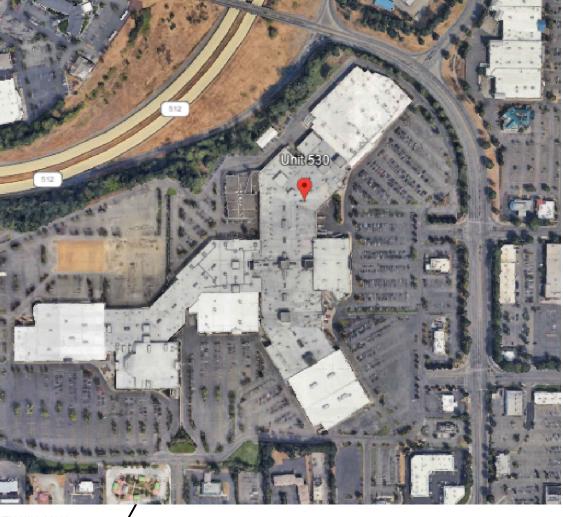
THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

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.

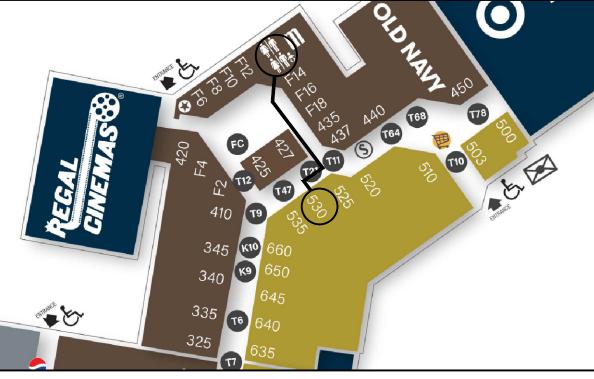
City of Puyallup Development & Permitting Services ISSUED PERMIT						
Building	Planning					
Engineering	Public Works					
Fire	Traffic					



JD SPORTS SOUTH HILL MALL #1315 3500 SOUTH MERIDIAN, SPACE #530 **PUYALLUP, WA 98373** FIRE ALARM TENANT IMPROVEMENT DRAWINGS

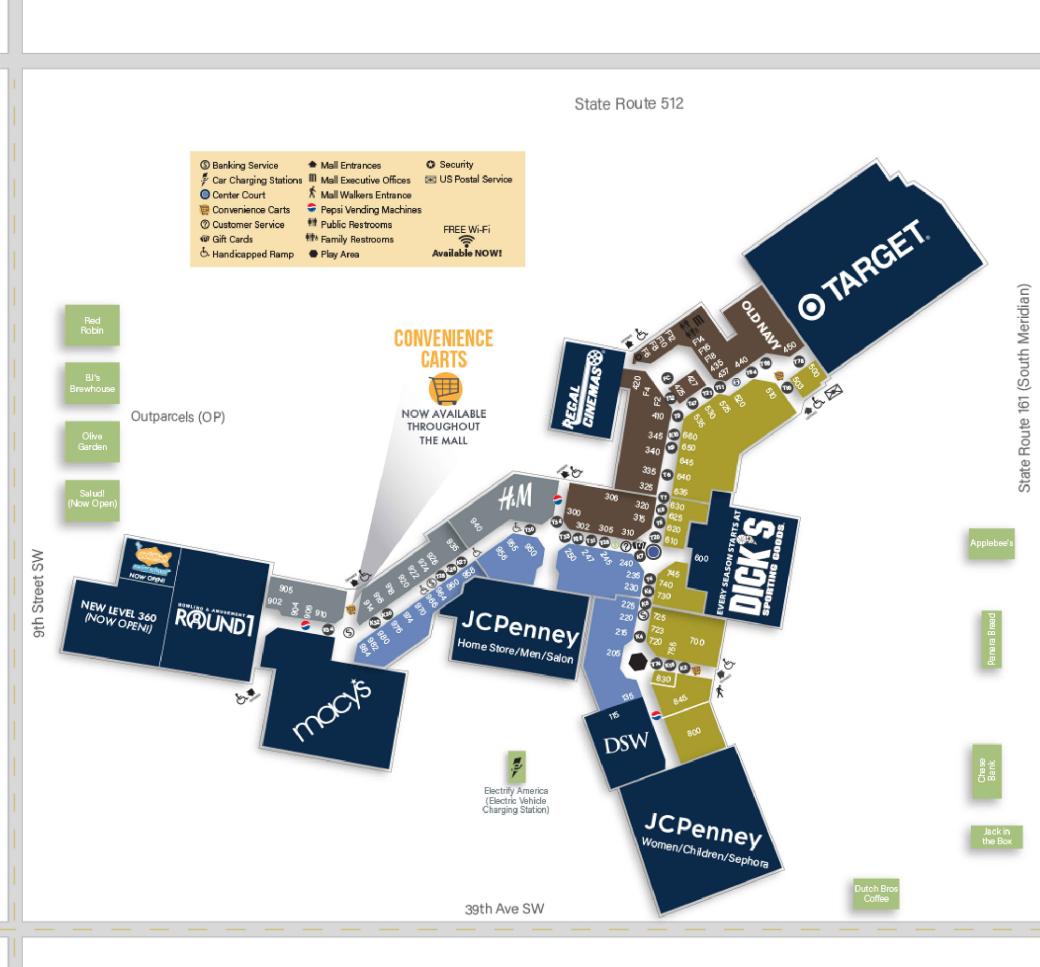


FI DESCRIPTION QTY SYMBOL FACPE FIRE ALARM CONTROL PANEL FPS F FIRE ALARM POWER SUPPLY (2)_F FIRE ALARM POWER SUPPLY SR CEILING MOUNT SPEAKER / STROBE 0 (R) ABBREVIATION DESCRIPTION EXISTING WITH GUARD PENDENT MOUNT P REMOVE AND RELOCATE R SOUNDER BASE WEATHERPROOF WP END OF LINE RESISTOR END OF LINE RELAY EOLR



CONSTRUCTION CLASSIFICATION (TABLE 601)- TYPE

BUILDING ELEMENT	FIRE RATING
STRUCTURAL	0-HR
BEARING WALLS	
EXTERIOR	0-HR
INTERIOR	0-HR
NONBEARING WALLS AND PARTITIONS EXTERIOR	N/A
NONBEARING WALLS AND PARTITIONS INTERIOR	0-HR
FLOOR CONSTRUCTION	
INCLUDING SUPPORTING BEAMS AND JOISTS	0-HR
ROOF CONSTRUCTION	
INCLUDING SUPPORTING BEAMS AND JOISTS	0-HR

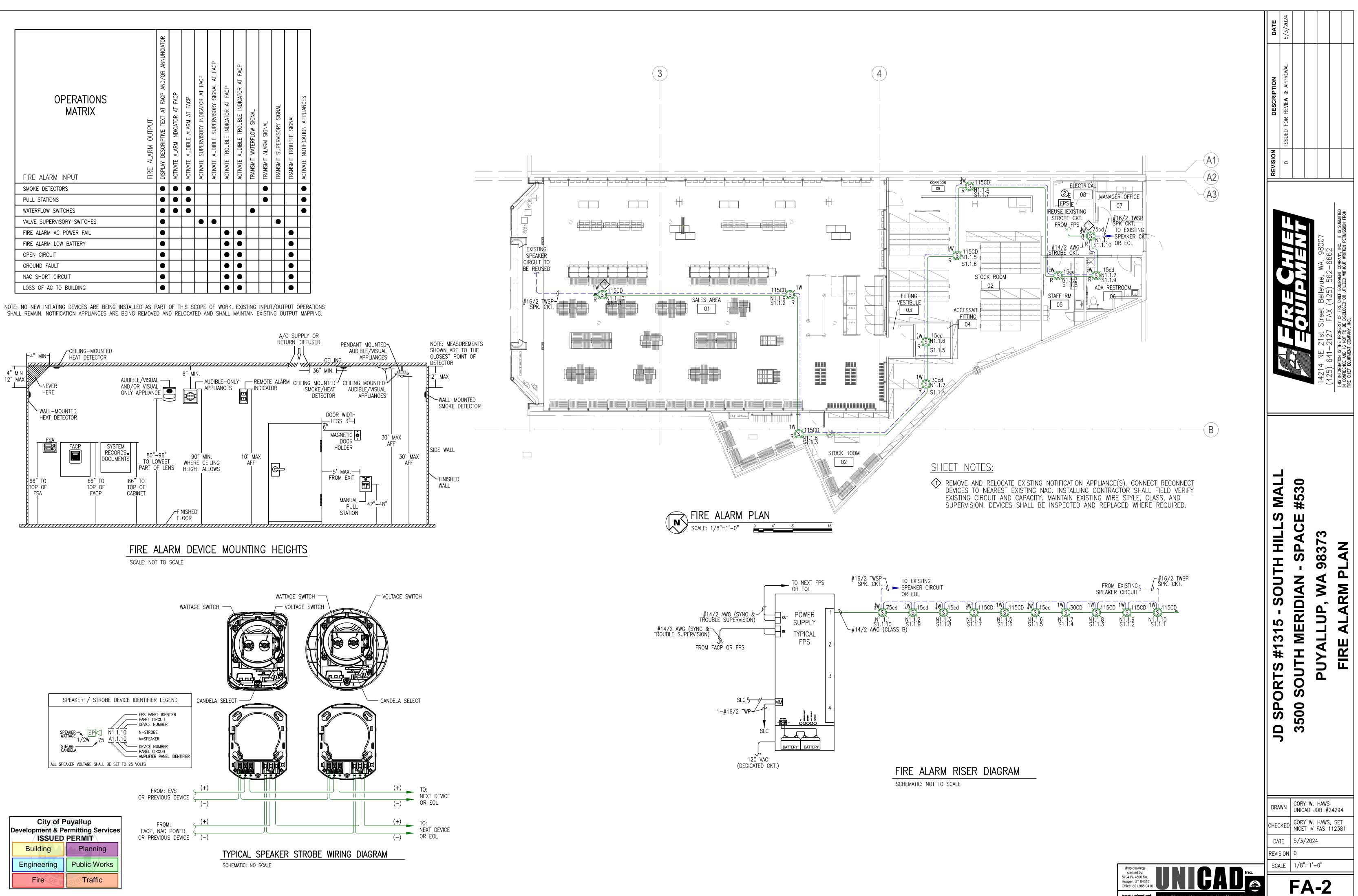


RE ALAR	M SYMBO	L LEGEND		DATE 5/3/2024	
Note: All symbol	s may not be used on . & PART #		MOUNT IN		
EXISTING		WALL - TOP @ 66"	EXISTING TO REMAIN	- IIII	
EXISTING		WALL - TOP @ 66"	EXISTING TO REMAIN	APPROVAL	
EXISTING SYSTEM SENSOF	R – SPSCR(W)L	WALL – TOP @ 66" CEILING	EXISTING TO REMAIN REMOVE AND RELOCATE		
ABBREVIATIO		SCRIPTION			
AWG TWP TWSP	TWISTED P	WIRE GAUGE AIR HIELDED PAIR	L1SOO1 OR MO1 (L – DENOTES LOOP #) (S or M – DENOTES SENSOR OR MODULE #)	SSUED FOR	
FPLP FPLR	FIRE POWE	R LIMITED PLENUM R LIMITED RISER	$1 - \frac{\#16}{2}$ TWP wire type abbreviated		
		ROBE 30	CONDUCTOR COUNT WIRE SIZE # OF CABLES (IF OMITTED ONLY 1 CABLE NEEDED)		
	GENERAL	NOTES:	I		
	EXISTING S SPEAKER TENANT SI	FIRE ALARM SYSTEM A SPEAKER STROBES IN STROBES TO EXISTING	TENANT SPACE. CONNECT NEWLY RELOCATED SPEAKER AND STROBE CIRCUITS LOCATED IN ALARM POWER SUPPLY IN ELECTRICAL ROOM TO		14214 NE 21st Street Bellevue, WA. 98007 (425) 641–2127 FAX (425) 562–6662 THIS INFORMATION IS THE PROPERTY OF FIRE CHIEF EQUIPMENT COMPANY, INC. IT IS SUBMITTED IN CONFIDENCE AND IIS NOT TO BE DISCLOSED OR UTILIZED WITHOUT WRITTEN PERMISSION FROM FIRE CHIEF EQUIPMENT COMPANY, INC.
	FOR EXAC	T DIMENSIONS.	MATIC. REFER TO THE ARCHITECTURAL DRAWINGS		V.A. 9 2-666. 11 company, without writ
	CODES AS	REQUIRED BY THE L	TH NEC, NFPA 72 AND ALL OTHER APPLICABLE OCAL AUTHORITY HAVING JURISDICTION.		Bellevue, (425) 562 chief equipment or utilized wit
	DIFFER FR CONSTRUC SEPARATIO	OM THESE PLANS. WI TION CONDITIONS ALL N WALLS AND FIRE W	ANS IS SCHEMATIC — ACTUAL WIRE LOCATIONS MAY RING SHALL BE PERFORMED AS ACTUAL BUILDING OW AND TO MINIMIZE PENETRATIONS THROUGH AREA ALLS. THE USE OF A RACEWAY IS PERMITTED AS VOLTAGE CABLES ARE IN THE SAME RACEWAY.		st Street B 27 FAX (4 PROPERTY OF FIRE CH DT TO BE DISCLOSED C
E 2B	5. FIRE RATIN CONSTRUC		INED FOR ALL PENETRATIONS THROUGH FIRE-RATED		NE 21 641–21 e and is the p uupment con
	PROVIDED CIRCUIT B MECHANICA SHALL BE WITH NFPA DETERMINE CIRCUITS	BY A DEDICATED AC REAKER SHALL BE PE ALLY PROTECTED, ACC RED AND LABELED " A 72. ELECTRICAL COI SIZE OF WIRING ANI	ANELS AND FIRE ALARM POWER SUPPLIES MUST BE BRANCH CIRCUIT. THE LOCATION OF THE BRANCH RMANENTLY IDENTIFIED AT THE CONTROL UNIT, ESSIBLE ONLY TO AUTHORIZED PERSONNEL AND FIRE ALARM CIRCUIT CONTROL" IN ACCORDANCE NTRACTOR SHALL PERFORM LOAD CALCULATIONS TO D BREAKERS FOR ALL FIRE ALARM AC BRANCH MATION PROVIDED IN THE BATTERY CALCULATIONS IT.		14214 (425) (THIS INFORMAT IN CONFIDENCE FIRE CHIEF EQ
	IN CABINE AWAY FRO POWER-LI	T. ALL POWER-LIMITEE M ANY NONPOWER-LI MITED AND NONPOWEF	R-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" MITED CIRCUIT WIRING. FURTHERMORE, ALL R-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT NT KNOCK OUTS AND/OR SEPARATE CONDUITS.		
	B. WHEN UTII CONDUCTC VERTICALL	LIZING CLASS "A" CIR ORS OF CLASS "A" CIF Y AND 48" WHERE RU	CUITS, SEPARATE OUTGOING AND RETURN RCUITS BY A MINIMUM OF 12" WHERE RUN IN HORIZONTALLY.	4AL 4530	
1		LIZING SHIELDED CABL BOX. INSULATE AND	E TIE SHIELDS THROUGH AND INSULATE AT EACH TAPE BACK AT END.	LS A #	
	MANUFACT SHALL BE IN LISTED EQUIPMEN SUPPORTE PHYSICAL WITHIN 7	URER FOR THE INTEN TYPE FPLP OR FPLR FITTINGS, BOXES, EN T. WHERE INSTALLED D AND INSTALLED IN DAMAGE IS AFFORDED FT OF THE FLOOR, C	BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT DED PURPOSE. CABLES USED IN VERTICAL RUNS CABLE SPLICES OR TERMINATIONS SHALL BE MADI CLOSURES, FIRE ALARM DEVICES, OR UTILIZATION EXPOSED, CABLES SHALL BE ADEQUATELY SUCH A WAY THAT MAXIMUM PROTECTION AGAINST BY BUILDING CONSTRUCTION. WHERE LOCATED ABLES SHALL BE SECURELY FASTENED IN AN LS OF NOT MORE THAN 18 IN.	315 - SOUTH HILL MERIDIAN - SPACI	P, WA 98373 ARM PLAN
1		TECTORS SHALL NOT IS COMPLETED AND	BE INSTALLED UNTIL AFTER CONSTRUCTION FINAL.		UP LA
1:		5. WALL-MOUNTED SM	IINIMUM OF THREE (3) FEET FROM MECHANICAL OKE DETECTORS SHALL BE LOCATED A MAXIMUM OF		PUYALLUP FIRE ALA
1.	PROVIDE A		ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. IODULES. PROVIDE A MULTI-SYNC MODE SLAVE C MODULES.	∥s Ľ	ΡUΥ FIF
1		L FIELD SELECTABLE ALARM CONTRACTOR.	AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES	O ∨	
	THE INSTA SYSTEM, F	LLING CONTRACTOR SH	E ALARM SYSTEM INSTALLATION AND PROGRAMMING, IALL PERFORM FINAL TESTING OF THE ENTIRE CODES, AND SHALL COORDINATE AND PERFORM A PECTION.	JD SP 3500	
1			AS REQUIRED BY THE INTERNATIONAL FIRE CODE, L AUTHORITY HAVING JURISDICTION.		
1	NOTIFICATIO	ON APPLIANCE CIRCUIT	PHYSICALLY, LABEL ALL INITIATING DEVICES AND END OF LINE (WHEN WIRING CLASS "B"). THESE NOR TO START—UP AND TESTING.		
	AND VALVE SHALL BE LESS THAN	ES OR OTHER FIRE DE IDENTIFIED WITH PERI	FOR AIR—CONDITIONING SYSTEMS, SPRINKLER RISER TECTION, SUPPRESSION OR CONTROL ELEMENTS MANENTLY MOUNTED SIGNS WITH LETTERING NOT H A PRINCIPAL STROKE OF NOT LESS THAN 3/8 F WITH BACKGROUND.		W. HAWS D JOB #24294 W. HAWS, SET IV FAS 112381 2024
1					=1'-0"
			5794 W. 4600 So. Hooper, UT 84315 Office: 801.985.0410		\-1

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re Alarm Design &

OPERATIONS MATRIX	FIRE ALARM OUTPUT	DISPLAY DESCRIPTIVE TEXT AT FACP AND/OR ANNUNCIATOR	ACTIVATE ALARM INDICATOR AT FACP	ACTIVATE AUDIBLE ALARM AT FACP	ACTIVATE SUPERVISORY INDICATOR AT FACP	ACTIVATE AUDIBLE SUPERVISORY SIGNAL AT FACP	ACTIVATE TROUBLE INDICATOR AT FACP	ACTIVATE AUDIBLE TROUBLE INDICATOR AT FACP	FRANSMIT WATERFLOW SIGNAL	TRANSMIT ALARM SIGNAL	FRANSMIT SUPERVISORY SIGNAL	TRANSMIT TROUBLE SIGNAL	ACTIVATE NOTIFICATION APPLIANCES
FIRE ALARM INPUT		DIS	AC ⁻	AC ⁻	AC ⁻	AC.	AC ⁻	AC ⁻	TR	R R	IR	TR	<u>S</u>
SMOKE DETECTORS		•	•	•									
PULL STATIONS		•		•									
WATERFLOW SWITCHES													
VALVE SUPERVISORY SWITCHES													
FIRE ALARM AC POWER FAIL													
FIRE ALARM LOW BATTERY													
OPEN CIRCUIT													
GROUND FAULT													
NAC SHORT CIRCUIT													
LOSS OF AC TO BUILDING													



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