

SCOPE OF WORK:

The intended scope of this project is to replace the existing addressable fire alarm panel (NOTIFIER NFW2-100) with a new NOTIFIER NFW100X addressable fire alarm panel. The fire alarm panel has failed and needs to be replaced. Replace remote annunciator as well. All existing field devices shall remain in place as currently installed. 100% testing of devices to be conducted not including smoke detector sensitivity testing. If the fire alarm panel does not currently have a smoke detector above it; one will be installed.

OCCUPANCY TYPE: B

EXCLUSIONS

ALL HIGH VOLTAGE WIRING AND CONNECTIONS. ANY CONDUIT BESIDES LESS THAN 3' FOR STUBS DOWN TO THE PANEL OR FIRE BLOCKING. ADDITIONAL FIRE ALARM PANEL. REPAIRS/MODIFICATIONS TO THE EXISTING SYSTEM OUTSIDE OF THIS SCOPE.

GENERAL NOTES:

01 - FIRE ALARM DESIGN TO BE PER NFPA 72 (2019) AND CITY OF PUYALLUP.

02 - SYSTEM TO BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 72 (2019) AND AUTHORITY HAVING JURISDICTION.

03 - SYSTEM TO BE MONITORED BY APPROVED UL LISTED CENTRAL STATION (VERIFY PROPER SIGNALS).

04 - ALL PROVIDED AND INSTALLED MATERIAL AND EQUIPMENT TO BE NEW AND UL APPROVED. ALL DEVICES SHALL BE COMPATIBLE WITH NEW FIRE ALARM PANEL.

DEVICES

05 - ALL EXISTING FIRE ALARM DEVICES SHALL REMAIN.

WIRING

06 - ALL EXISTING FIRE ALARM CABLE SHALL REMAIN. IF APPLICABLE, ALL NEW CABLE WILL BE ¹⁶/₂ FPLP AND PROPERLY SECURED.

07 - ALL FIRE ALARM WIRES TO BE IDENTIFIED AND APPROPRIATELY MARKED WIRING BELOW 7'-0" TO BE INSTALLED IN CONDUIT (EMT ¹/₂" TRADE TYP) OR ADEQUATELY PROTECTED.

08 - PER NEC, NO AC VOLTAGE WIRING OF ANY KIND CAN BE RUN IN SAME CONDUIT OR RISER AS LOW VOLTAGE FIRE ALARM SYSTEM WIRE.

WIRING

09 - NEW PANEL TO BE INSTALLED. ALL EXISTING WIRING TO BE RECONNECTED. ALL EXISTING DEVICES TO BE RECONNECTED.

10 - NEW BATTERIES TO BE INSTALLED WITH PANEL.

11 - THERE WILL BE NO ADDITIONAL INTERCONNECTIONS, WIRING, OR DEVICES FOR ANY EXISTING DEVICES OR EQUIPMENT THAT MAY BE PRESENT BUT NOT CURRENTLY TIED IN.

BJ'S RESTAURANT
3703 9TH STREET SW
PUYALLUP WA 98373
FIRE ALARM SYSTEM -
PANEL REPLACEMENT

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
Fire
REVIEWED
FOR
COMPLIANCE

DDrake
10/13/2025
3:50:21 PM



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

RED HAWK
FIRE PROTECTION, LLC

Ever Vigilant

801 VALLEY AVE NW, SUITE D
PUYALLUP, WA 98371
PHONE: (253) 840-9900 FAX (800) 591-4382
WA CL# REDHAH901QP

NICET Stamp

Johannas J. Tatum

Nicet ID: 148456
WA EL06: TATUMJ3774N4

Approvals Required

OWNER / ARCHITECT

Revisions

Contract With

SSD ALARM

1740 LEMON STREET
ANAHEIM CA 92801

PM: HELEN SERRANO
PHONE: 800-888-0444
EMAIL: HSERRANO@SSDALARM.COM

Contract Name

BJ'S RESTAURANT

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PUYALLUP WA 98373

Drawing Title

FIRE ALARM
DRAWING - COVER
SHEET

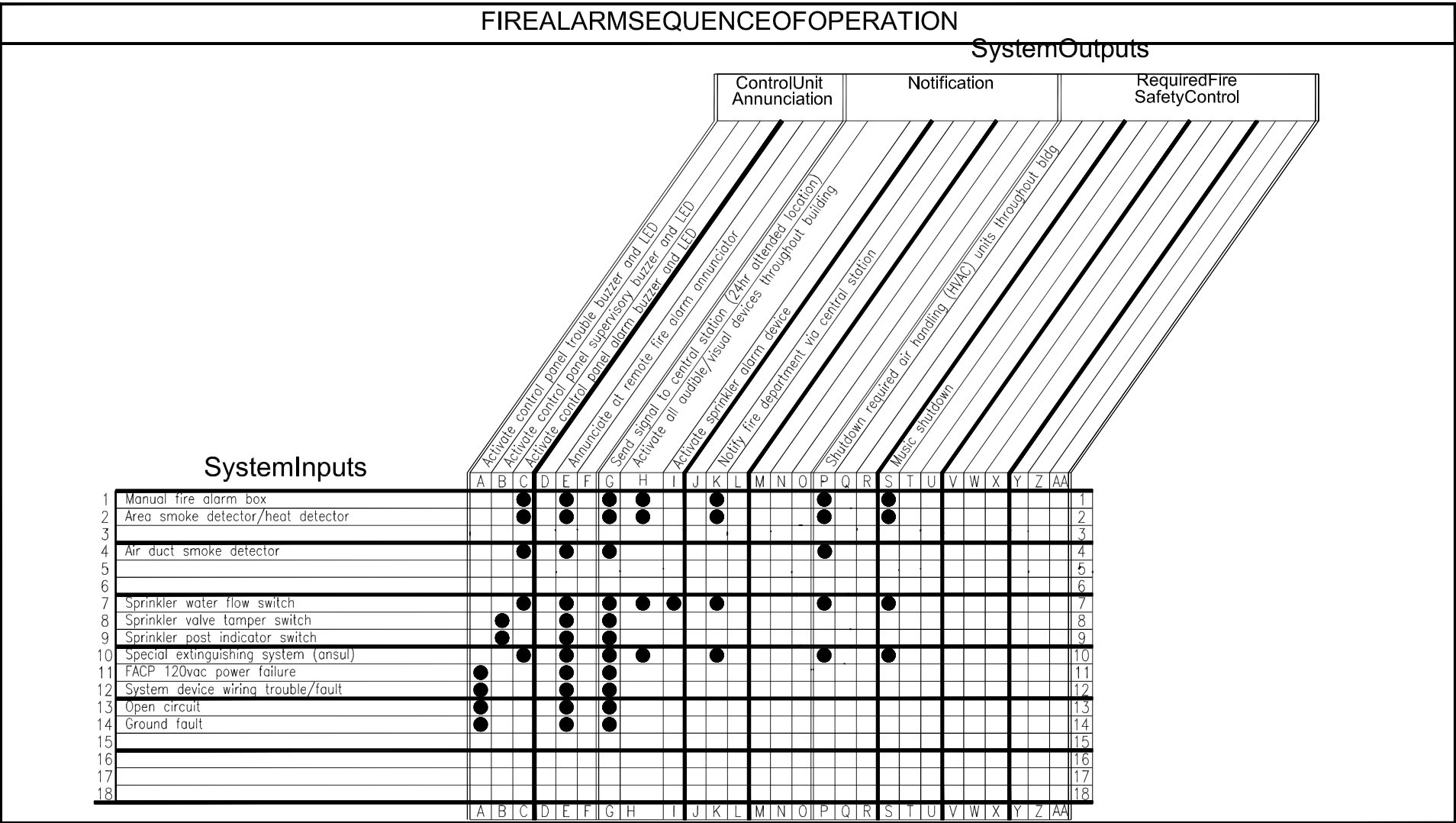
Key Plan

Date: AUGUST 12, 2025
Job Number: 12620
Designer: LINDSEY LESLIE
Building Permit: -

Drawing Number

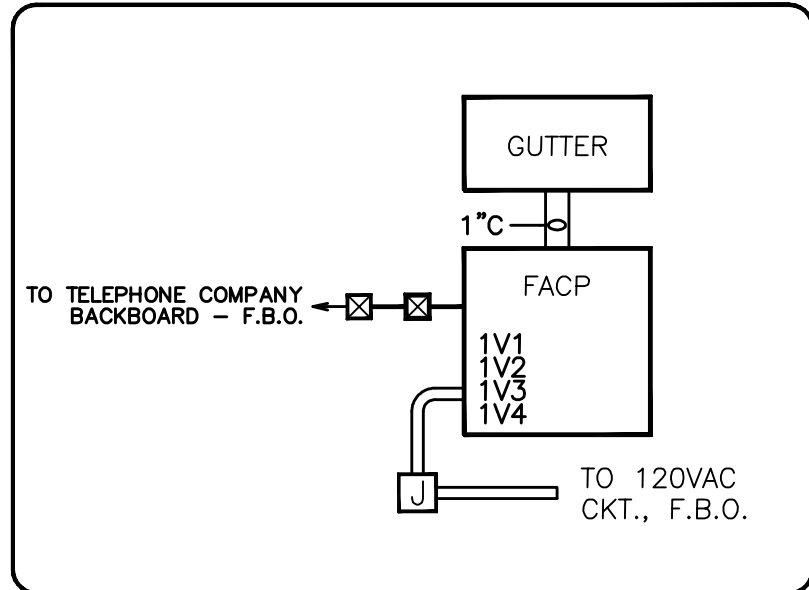
FA-01
SHEET 1 OF 4

SYMBOLSLEGEND						
QUANTITY	SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX	MOUNTING HEIGHT
1		FIRE ALARM CONTROL PANEL	NFW100X	NOTIFIER	PROVIDED	66" A.F.F. TO TOP
1		FIRE ALARM ANNUNCIATOR PANEL	NAN80	NOTIFIER	PROVIDED	66" A.F.F. TO TOP
1		ANNUNCIATOR WEATHERPROOF HOUSING	STI-7520HTR	STI	-----	VERIFY IN FIELD
1		FIRE ALARM RELAY MODULE	NC-100R	NOTIFIER	EXISTING	EXISTING
9		FIRE ALARM MONITOR MODULE	NMM-100	NOTIFIER	EXISTING	EXISTING
2		FIRE ALARM DUAL MONITOR MODULE	NDM-100	NOTIFIER	EXISTING	EXISTING
1		MANUAL PULL STATION	NOT-8612LX	NOTIFIER	EXISTING	EXISTING
31		AREA SMOKE DETECTOR (ADDRESSABLE - PHOTO)	NP-100	NOTIFIER	EXISTING	EXISTING
6 (F.B.O.)		120VAC DUCT SMOKE DETECTOR	BY OTHERS	BY OTHERS	EXISTING	EXISTING
9		FIRE ALARM CEILING HORN/STROBE	PC2W (WHITE)	SYSTEM SENSOR	EXISTING	EXISTING
14		FIRE ALARM CEILING STROBE	SCW (WHITE)	SYSTEM SENSOR	EXISTING	EXISTING
2		FIRE ALARM WALL HORN/STROBE	P2RK (RED)	SYSTEM SENSOR	EXISTING	EXISTING
1		24VDC SPRINKLER ALARM BELL	MBA-10-24	POTTER	EXISTING	EXISTING
1 (F.B.O.)		SPRINKLER WATER FLOW - F.B.O.	F.B.O.	F.B.O.	EXISTING	EXISTING
1 (F.B.O.)		SPRINKLER VALVE TAMPER - F.B.O.	F.B.O.	F.B.O.	EXISTING	EXISTING
1 (F.B.O.)		BACKFLOW PREVENTOR TAMPER - F.B.O.	F.B.O.	F.B.O.	EXISTING	EXISTING
1 (F.B.O.)		SPRINKLER POST INDICATOR - F.B.O.	F.B.O.	F.B.O.	EXISTING	EXISTING
2 (F.B.O.)		ANSUL SYSTEM F.B.O.	F.B.O.	F.B.O.	EXISTING	EXISTING
---		FIRE ALARM JUNCTION BOX	N/A	BY ELECTRICIAN	EXISTING	EXISTING
---		FIRE ALARM TERMINAL CABINET	N/A	BY ELECTRICIAN	EXISTING	EXISTING
---	A.F.F.	ABOVE FINISHED FLOOR	N/A	N/A	N/A	N/A
---	EOL	END OF LINE RESISTOR	N/A	N/A	N/A	N/A
---	F.B.O.	FURNISHED BY OTHERS	N/A	N/A	N/A	N/A
---	N/A	NOT APPLICABLE	N/A	N/A	N/A	N/A
---	U.O.N.	UNLESS OTHERWISE NOTED	N/A	N/A	N/A	N/A
---	VL	VERIFY LOCATION IN FIELD	N/A	N/A	N/A	N/A
---	WP	WEATHERPROOF DEVICE	N/A	N/A	N/A	N/A
---		CONDUIT DOWN CONDUIT UP	N/A	N/A	N/A	N/A
---		DEDICATED PHONE LINE - F.B.O.	F.B.O.	F.B.O.	F.B.O.	F.B.O.



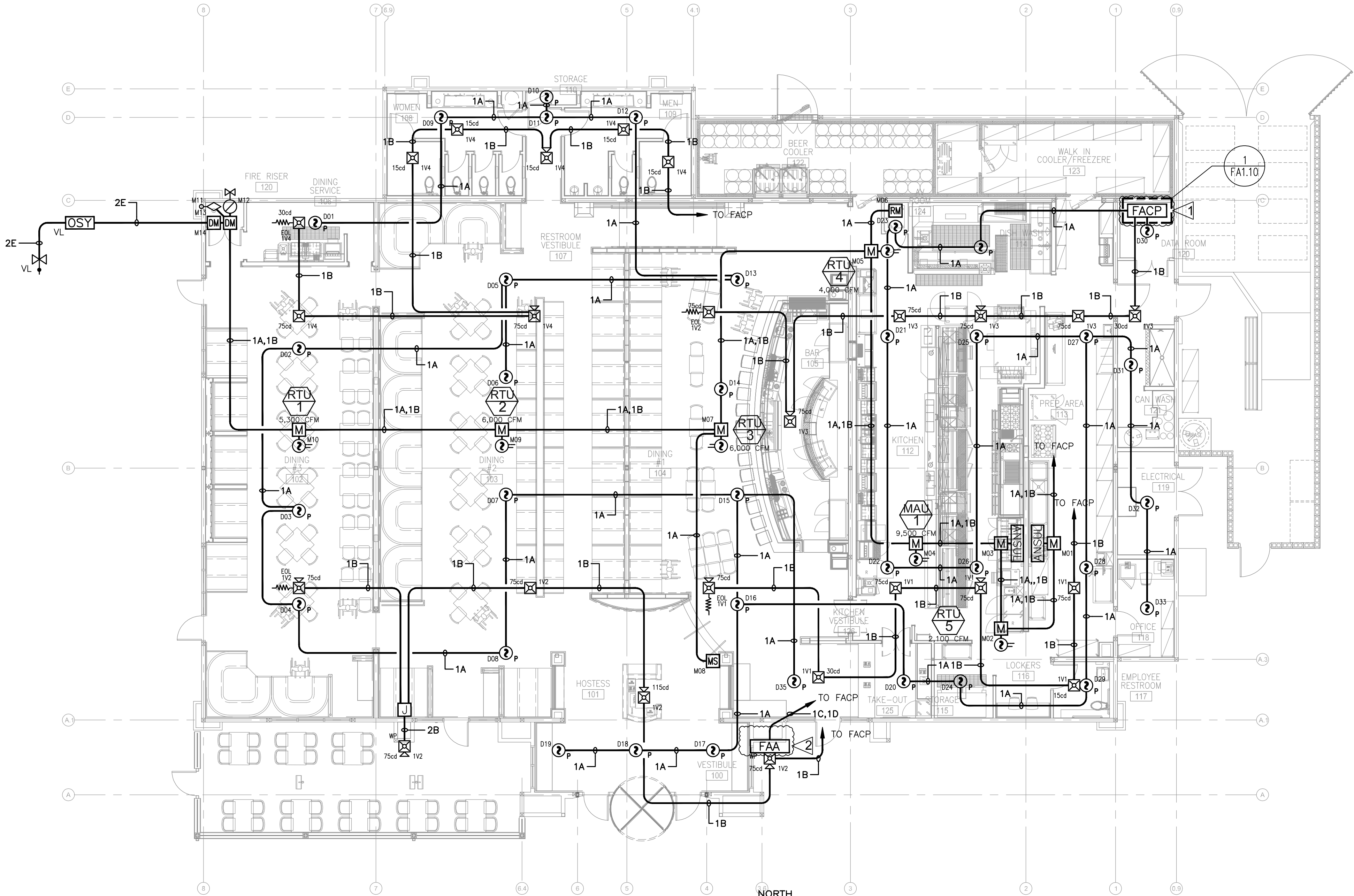
FLAG NOTES:

- 1 REPLACE EXISTING FIRE ALARM PANEL WITH NEW NOTIFIER NFW100X.
- 2 REPLACE EXISTING FIRE ALARM ANNUNCIATOR WITH NEW NOTIFIER NAN80.

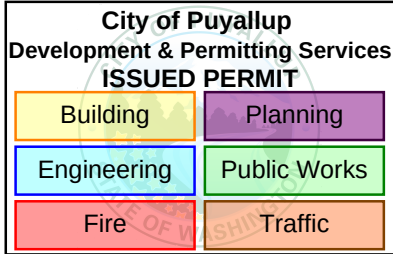
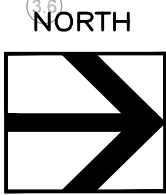


1 FIRE ALARM CONTROL PANEL DETAIL
FA1.10 SCALE: NONE

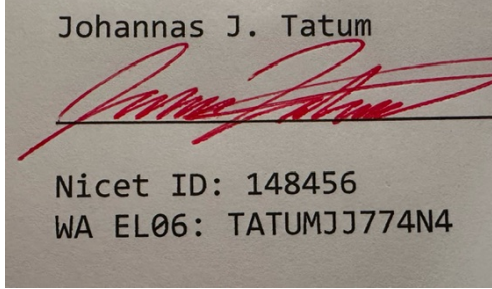
DESIGNATION	TYPE
A	#18/4 FPLP FIRE CABLE (DATA LOOP)
B	#14/2 FPLP FIRE CABLE (HORN/VISUAL).
C	#18/2 FPLP (MONITOR MODULE TO DEVICE)(ANN.POWER)
D	#18/4 FPLP FIRE CABLE (REMOTE ANNUNCIATOR)
E	2#14THWN AWG BUILDING WIRE
INITIATING ZONE CALL-OUT	
D01	DEVICE#
M01	MONITOR MODULE
NOTIFICATION ZONE CALL-OUT	
1V1	NOTIFICATION DEVICE CIRCUIT#
	NOTIFICATION FLOOR LOCATION



1ST FLOOR PLAN
SCALE: 1/8"=1'-0"



NICET Stamp



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Drawing Title

FLOOR PLAN

Key Plan

Date: AUGUST 12, 2025

Job Number: 12620

Designer: LINDSEY LESLIE

Building Permit: -

Drawing Number

BATTERY SIZING CALCULATION

03/11/13

B.J.'S RESTAURANT & BREWHOUSE

MAIN FIRE ALARM CONTROL PANEL

Quantity	Device Type	Model Number	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current
1	FIRE ALARM PANEL	NFW100X	0.14500	0.14500	0.27500	0.27500
1	Control Relay	NC-100R	0.00027	0.00027	0.00650	0.00650
2	Monitor	NDM-100	0.00075	0.00150	0.00640	0.01280
3	Monitor	NAM-100	0.00040	0.00360	0.00500	0.04500
1	Pull Station	NOT-BG12LX	0.00030	0.00030	0.00673	0.00673
31	Smoke Det	NP-100	0.00030	0.00930	0.00650	0.20150
1	Horn/Strobe	PC2W (15cd)	0.00000	0.00000	0.07900	0.07900
1	Horn/Strobe	PC2W (30cd)	0.00000	0.00000	0.10700	0.10700
6	Horn/Strobe	PC2W (75cd)	0.00000	0.00000	0.17600	1.05600
1	Horn/Strobe	PC2W (115cd)	0.00000	0.00000	0.21800	0.21800
1	Horn/Strobe (WP)	P2RK (75cd)	0.00000	0.00000	0.17600	0.17600
5	Strobe	SCW (15cd)	0.00000	0.00000	0.06600	0.33000
2	Strobe	SCW (30cd)	0.00000	0.00000	0.09400	0.18800
7	Strobe	SCW (75cd)	0.00000	0.00000	0.15800	1.10600
1	ANN	NAN80	0.06400	0.06400	0.02500	0.02500
			Standby Load		Alarm Load	
			0.224		3.833	
Standby Load: 0.224 Amps			Alarm Load: 3.833 Amps			
Standby Time: 24 Hours			Alarm Time: 5 Minutes			
Total Standby Load: 5.38 Amp*Hours			Total Alarm Load: 0.32 Amp*Hours			
Batteries Provided: 12 12V18AH			Available Battery: 9.60 A.H.			
Battery Size: 18AH			Load (ALM + STBY): 5.69 A.H.			
De-Rated Size(80%): 9.60 A.H.			Spare Capacity: 3.91 A.H.			

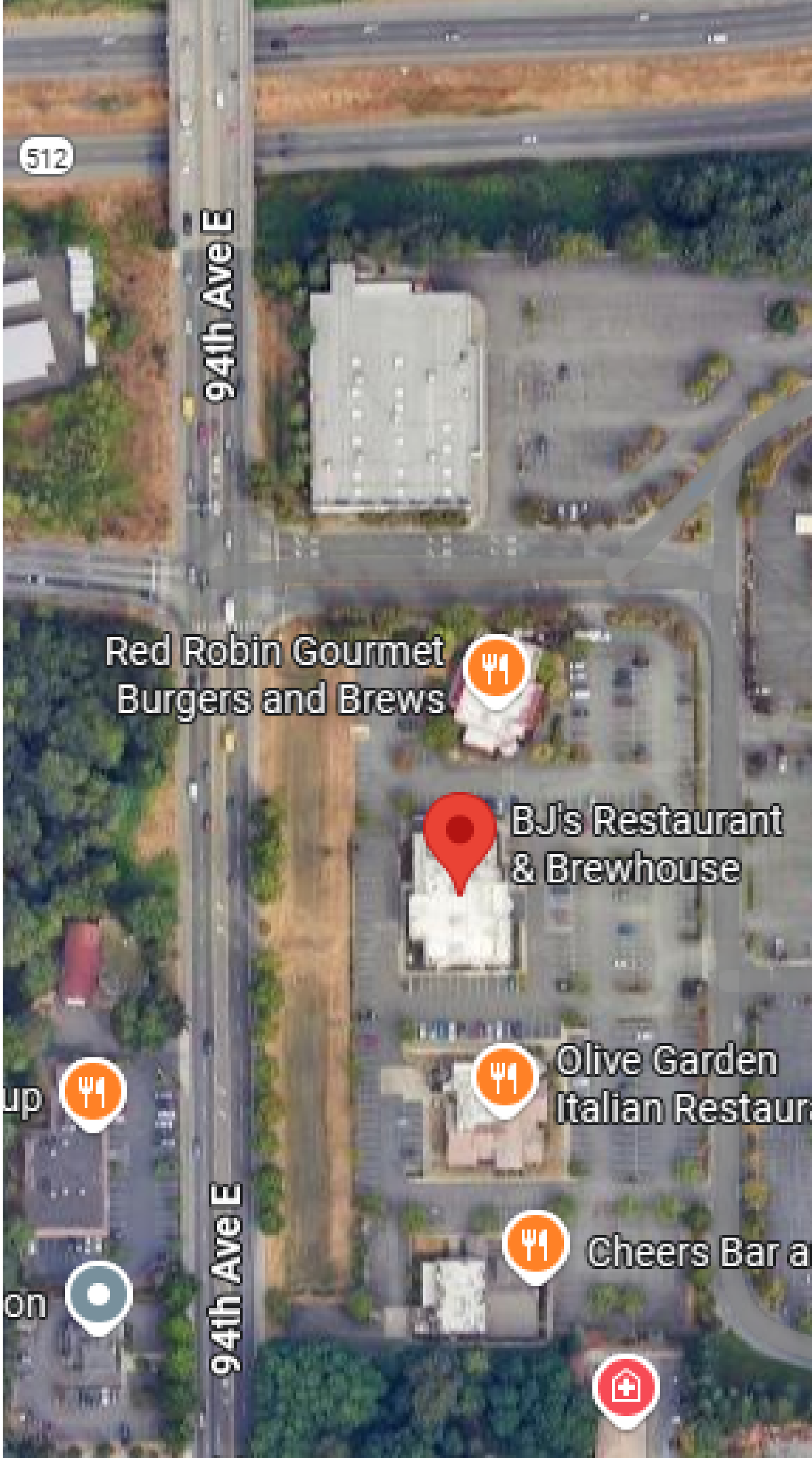
VOLTAGE DROP CALCULATION

10/08/12

B.J.'S PUYALLUP

MAIN FIRE ALARM CONTROL PANEL

	DEVICE CURR. (AMPS)	SIGNAL CIRCUIT IV1		SIGNAL CIRCUIT IV2		SIGNAL CIRCUIT IV3		SIGNAL CIRCUIT IV4	
		QTY	CURR.	QTY	CURR.	QTY	CURR.	QTY	CURR.
Horn/Strobe									
PC2W (15cd)	0.079		0.000		0.000		0.000	1	0.079
PC2W (30cd)	0.107		0.000		0.000	1	0.107		0.000
PC2W (75cd)	0.176	2	0.352	1	0.176	2	0.352	1	0.176
PC2W (115cd)	0.218		0.000	1	0.218		0.000		0.000
Horn/Strobe (WP)									
P2RK (75cd)	0.176		0.000	1	0.176		0.000		0.000
Strobe									
SCW (15cd)	0.066	1	0.066		0.000		0.000	4	0.264
SCW (30cd)	0.094	1	0.094		0.000		0.000	1	0.094
SCW (75cd)	0.158	2	0.316	1	0.158	3	0.474	1	0.158
TOTAL CURRENT ON CIRCUIT		0.828 AMPS		0.728 AMPS		0.833 AMPS		0.771 AMPS	
TOTAL WIRE LENGTH		200 FT.		275 FT.		150 FT.		250 FT.	
WIRE SIZE		14 AWG		14 AWG		14 AWG		14 AWG	
CIRCULAR MILS		4110 CIRC MILS		4110 CIRC MILS		4110 CIRC MILS		4110 CIRC MILS	
VOLTAGE DROP		0.87 VOLTS		1.05 VOLTS		0.74 VOLTS		1.01 VOLTS	
VOLTAGE @ END OF CIRCUIT		19.53VOLTS		19.35VOLTS		19.66VOLTS		19.39VOLTS	
CIRCUIT LOCATION		1ST FLOOR		1ST FLOOR		1ST FLOOR		1ST FLOOR	
VOLTAGE DROP = TOTAL CURRENT x DISTANCE x 21.6									
CIRC. MILS									
18 AWG = 1620									
16 AWG = 2580									
14 AWG = 4110									
12 AWG = 6530									
LISTED CIRCUIT VOLTAGE = 24V									
STARTING CIRCUIT VOLTAGE = 20.4V (85% LISTED VOLTAGE)									
OPERATING VOLTAGE RANGE FOR 74V NOTIFICATION APPLIANCES TO BE 16V-33V									



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Nicet ID: 148456

WA EL06: TATUMJJ774N4

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BATTERY CALC AND VICINITY MAP

Key Plan

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