

FIRE ALARM LEGEND					
NEW	EXIST	SYMBOL	DESCRIPTION	MANUFACTURER	PART #
0	1	[FACP]	ADDRESSABLE FIRE ALARM CONTROL PANEL	FAREHNTY	IFP-2100ECS
0	1	[LOC]	LOCAL OPERATING CONSOLE	FAREHNTY	ECS-LOC
1	4	[BPS5]	INTELLIGENT REMOTE POWER SUPPLY	FAREHNTY	RPS-1000
0	3	[BPS5]	INTELLIGENT REMOTE POWER SUPPLY	SILENT KNIGHT	5496
0	1	[BPS17]	CONVENTIONAL BOOSTER POWER SUPPLY	HONEYWELL	HPF-PS-6
0	1	[AMPX]	125 WATT AMPLIFIER	FAREHNTY	ECS-125W
20	535	②	ADDRESSABLE SMOKE DETECTOR	FAREHNTY	IDP-PHOTO-W W/BS300-6 BASE
0	2	②	ADDRESSABLE SMOKE DETECTOR WITH RELAY BASE	FAREHNTY	IDP-PHOTO-W W/SSB224RB BASE
20	157	②	ADDRESSABLE SMOKE DETECTOR - ABOVE CEILING	FAREHNTY	IDP-PHOTO-W W/BS300-6 BASE
0	4	②	ADDRESSABLE HEAT DETECTOR	FAREHNTY	IDP-HEAT-W W/BS300-6 BASE
0	9	[F]	ADDRESSABLE MANUAL PULL STATION	FAREHNTY	IDP-PULL-SA
0	22	[MON]	ADDRESSABLE INPUT MODULE	FAREHNTY	IDP-MONITOR
0	2	[R]	ADDRESSABLE RELAY MODULE	FAREHNTY	IDP-RELAY
0	25	⊗	ADDRESSABLE DUCT DETECTOR	FAREHNTY	DNR
0	213	☼	STROBE - WALL MOUNT W - INDICATES WIRELESS DEVICE CAMERA SETTING	SYSTEM SENSOR	SRL
0	79	☼	STROBE - CEILING MOUNT W - INDICATES WIRELESS DEVICE CAMERA SETTING	SYSTEM SENSOR	SCWL
14	0	☼	STROBE - CEILING MOUNT W - INDICATES WIRELESS DEVICE CAMERA SETTING	SYSTEM SENSOR	SKWLED
0	1	☼	WEATHERPROOF HORN/STROBE	SYSTEM SENSOR	P2RK W/BACK BOX
0	102	☼	SPEAKER/STROBE - WALL MOUNT W - INDICATES WIRELESS DEVICE CAMERA SETTING / W - INDICATES WIRELESS DEVICE CAMERA SETTING	SYSTEM SENSOR	SPSWH
0	51	☼	SPEAKER/STROBE - CEILING MOUNT W - INDICATES WIRELESS DEVICE CAMERA SETTING / W - INDICATES WIRELESS DEVICE CAMERA SETTING	SYSTEM SENSOR	SPSCWL
5	0	☼	SPEAKER/STROBE - CEILING MOUNT W - INDICATES WIRELESS DEVICE CAMERA SETTING / W - INDICATES WIRELESS DEVICE CAMERA SETTING	SYSTEM SENSOR	SPSCWLED
0	6	[W]	WET WATER FLOW SWITCH	BY OTHERS	BY OTHERS
0	8	[TS]	TAMPER SWITCH	BY OTHERS	BY OTHERS
0	1	[PS]	DRY WATER FLOW SWITCH	BY OTHERS	BY OTHERS
0	1	[H/L]	HI/LO PRESSURE SWITCH	BY OTHERS	BY OTHERS
0	1	[RV]	POST INDICATOR VALVE - WALL MOUNT	BY OTHERS	BY OTHERS
0	1	[ST]	STANDPIPE	BY OTHERS	BY OTHERS
			EOL		

SCOPE OF WORK:

INSTALL 1EA BOOSTER POWER SUPPLY, 40EA SMOKE DETECTORS, 14EA STROBES, 5EA SPEAKER/STROBES TO THE EXISTING FIRE ALARM CONTROL SYSTEM FOR THIS TENANT IMPROVEMENT

AREA OF RESCUE					
NEW	EXIST	SYMBOL	DESCRIPTION	MANUFACTURER	PART #
0	1	[ARCP]	AREA OF RESCUE MASTER PANEL	CORNELL	A-4208

CODE REFERENCE:

NFPA 2019 / IFC 2021

Multicare GSMOB					
Notifier HPF-P56 BPS17 Booster Power Supply					
Current Load:		Standby:		Alarm:	
Device Type	Quantity	Amps	Total	Amps	Total
Main System Board	1	0.139	0.139	1.0314	1.0314
SRL Wall Strobe 15cld	8			0.043	0.3440
SCRL Ceiling Strobe 15cld	10			0.041	0.4100
SPSR (15) Wall Spkr/Stb	4			0.066	0.2640
SPSCWL (15) Ceiling Spkr/Stb	3			0.041	0.1230
Total Panel Loads:			0.139/Amps		2.172/Amps
Standby Current Load:		0.139/Amps	For 24 Hours =	3.336/Amp-hours	
Alarm Current Load:		2.172/Amps	For 5 Minutes =	0.182/Amp-hours	
			20% Derating=	4.222/Amp-hours	
Total System Current Load:				4.222/Amp-hours	
Battery Pair to be Used:	12VDC		Amp-hours	8AH	

Multicare GSMOB					
Silent Knight 5496 BPS18 Distributed Power Module Battery Load Calculations					
Current Load:		Standby:		Alarm:	
Device Type	Qty	Amps	Total	Amps	Total
Main System Board	1	0.04	0.04	0.160	0.160
SRL Wall Strobe 15cld	31			0.043	1.3330
SPSR (15) Wall Spkr/Stb	8			0.066	0.5280
SPSR (30) Wall Spkr/Stb	2			0.094	0.1880
SPSR (75) Wall Spkr/Stb	2			0.158	0.7600
SPSR (110) Wall Spkr/Stb	2			0.202	0.4040
P2RK Weatherproof Horn/Strobe 110cld	1			0.212	0.212
Total Panel Loads			0.04/Amps		3.615/Amps
Standby Current Load:		0.04/Amps	For 24 Hours =	0.960/Amp-hours	
Alarm Current Load:		3.615/Amps	For 5 Minutes=	0.304/Amp-hours	
			20% Derating=	1.516/Amp-hours	
Total System Current Load:				1.516/Amp-hours	
Battery Pair to be Used:	12VDC		Amp-hours	8AH	

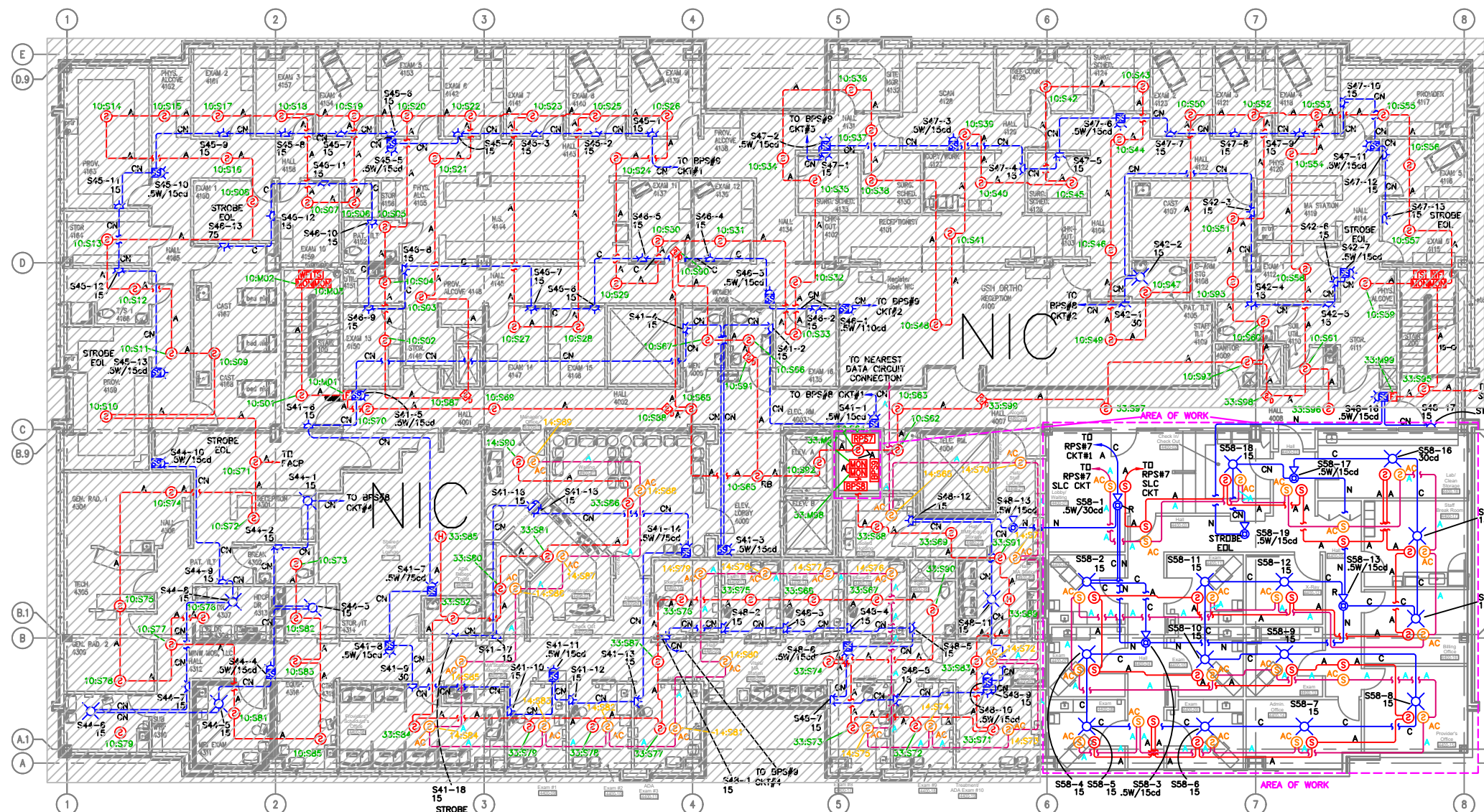
Multicare GSMOB					
Silent Knight EVAC EVS-125 Audio Amplifier					
Current Load:		Standby:		Alarm:	
Device Type	Quantity	Amps	Total	Amps	Total
Main System Board - 25 Volt	1	0.375	0.375	0.700	0.700
EVAC-E4 4 Zone Expander	1	0.020	0.020	0.180	0.180
Total Watts	78.5			0.040	3.140
Total Panel Loads:			0.395/Amps		4.020/Amps
Standby Current Load:		0.395/Amps	For 24 Hours =	9.480/Amp-hours	
Alarm Current Load:		4.020/Amps	For 15 Minutes=	1.005/Amp-hours	
			20% Derating=	12.582/Amp-hours	
Total System Current Load:				12.582/Amp-hours	
Battery Pair to be Used:	12VDC		Amp-hours	18AH	

Multicare GSMOB					
RPS-1000 RPS7 Intelligent Power Supply					
Current Load:		Standby:		Alarm:	
Device Type	Quantity	Amps	Total	Amps	Total
Main System Board	1	0.040	0.040	0.160	0.160
6815SLC Loop Expander	2	0.078	0.156	0.078	0.156
IDP Photo	40	0.0003	0.012	0.0065	0.260
SCRLD Ceiling Stb (15)	13			0.018	0.2340
SCRLD Ceiling Stb (30)	1			0.022	0.0220
SPSCRLED Ceiling Speaker/Strobe (15)	4			0.018	0.0720
SPSCRLED Ceiling Speaker/Strobe (30)	1			0.022	0.0220
Total Panel Loads:			0.208/Amps		0.928/Amps
Standby Current Load:		0.208/Amps	For 60 Hours =	12.480/Amp-hours	
Alarm Current Load:		0.928/Amps	For 15 Minutes =	0.232/Amp-hours	
			25% Derating=	15.889/Amp-hours	
Total System Current Load:				15.889/Amp-hours	
Battery Pair to be Used:	12VDC		Amp-hours	18AH	

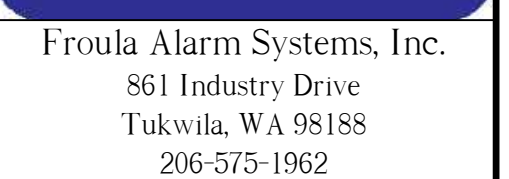
Voltage Drop Chart					
GSMOB					
Panel	Circuit	Area	Total Wire Length	Amps	Voltage Drop
FACP #1	S1	Garage East & West	1046	0.599	1.999
FACP #2	S2	Garage Center West	344	0.948	1.040
FACP #3	S3	Garage Center East	398	0.948	1.198
FACP #4	S4	1st Fl SW	240	0.476	0.384
FACP #5	S5	1st Fl West	428	0.562	0.767
FACP #6	S6	1st Fl South Center West	444	0.719	1.018
FACP #7	Spare		0	0.000	0.000
FACP #8	Spare		0	0.000	0.000
RPS #1	S8	3rd Fl Center	690	0.347	0.764
RPS #1	S10	3rd Fl NW	370	0.605	0.714
RPS #1	S11	3rd Fl SE	264	0.499	0.420
RPS #1	S12	3rd Fl NW	316	0.570	0.575
RPS #1	S13	Spare	0	0.000	0.000
RPS #1	S14	Spare	0	0.000	0.000
RPS #1	S15	Spare	0	0.000	0.000
RPS #1	S16	Spare	0	0.000	0.000
RPS #4	S17	1st Fl South Center	410	0.457	0.598
RPS #4	S18	1st Fl NE	510	0.533	0.967
RPS #4	S19	1st Fl NW	384	0.585	0.717
RPS #4	S20	1st Fl Center East	610	0.661	1.286
RPS #4	S21	1st Fl Center East	584	0.586	1.092
RPS #4	S22	1st Fl SE	366	0.676	0.789
RPS #4	S23	Spare	0	0.000	0.000
RPS #4	S24	Spare	0	0.000	0.000
RPS #5	S25	2nd Fl SW	864	0.943	2.599
RPS #5	S26	2nd Fl South Center	412	0.492	0.647
RPS #5	S27	2nd Fl South Center	260	0.369	0.306
RPS #5	S28	2nd Fl SE	430	0.574	0.787
RPS #5	S29	Spare	0	0.000	0.000
RPS #5	S30	Spare	0	0.000	0.000
RPS #5	S31	Spare	0	0.000	0.000
RPS #5	S32	Spare	0	0.000	0.000
RPS #5	S33	Spare	0	0.000	0.000
RPS #6	S34	Spare	0	0.000	0.000
RPS #6	S35	3rd Fl West	604	0.714	1.376
RPS #6	S36	3rd Fl South	444	0.845	1.197
RPS #6	S37	Spare	0	0.000	0.000
RPS #6	S38	3rd Fl SE	268	0.583	0.498
RPS #6	S39	Spare	0	0.000	0.000
RPS #6	S40	Spare	0	0.000	0.000
RPS #6	S41	4th Fl South Center	760	1.047	2.538
RPS #6	S42	4th Fl NE	284	0.342	0.310
RPS #6	S43	3rd Fl North Center	454	0.714	1.034
RPS #6	S44	4th Fl SW	450	0.466	0.669
RPS #6	S45	4th Fl NW	620	0.620	0.801
RPS #6	S46	4th Fl Center	340	0.741	0.804
RPS #6	S47	4th Fl NE	336	0.651	0.698
RPS #6	S48	4th Fl SE	564	1.028	1.846
RPS #17	S49	3rd Fl NE	494	0.533	0.840
RPS #17	S50	3rd Fl SW	268	0.608	0.520
RPS #17	S51	Spare	0	0.000	0.000
RPS #17	S52	Spare	0	0.000	0.000
RPS #17	S53	Spare	0	0.000	0.000
RPS #18	S54	2nd Fl North Center West	364	0.826	0.959
RPS #18	S55	2nd Fl NW	850	1.604	4.349
RPS #18	S56	2nd Fl NE	490	0.626	0.982
RPS #18	S57	2nd Fl North Center East	290	0.767	0.710
RPS #7	S58	4th Floor Ste 4200 Foot & Ankle Tenant Improvement	704	0.350	0.786
RPS #7	S59	Spare	0	0.000	0.000
RPS #7	S60	Spare	0	0.000	0.000
RPS #7	S61	Spare	0	0.000	0.000
RPS #7	S62	Spare	0	0.000	0.000
RPS #7	S63	Spare	0	0.000	0.000

SEQUENCE OF OPERATIONS									
	MANUAL PULL STATION								
	SMOKE DETECTION								
	ELEVATOR MACHINE ROOM/STAIR SMOKE DET.								
	MAIN FLOOR ELEV. LOBBY SMOKE DET.								
	OTHER FLOOR ELEV. LOBBY SMOKE DET.								
	HEAT DETECTION								
	DUCT SMOKE DETECTION								
	WET FLOW SWITCH								
	DRY FLOW SWITCH								
	H-LOW AIR								
	DRY TAMPER SWITCH								
	WET TAMPER SWITCH								
	SYSTEM TROUBLE								
ACTIVATION OF LOCAL ALARM AT FACP									
INDICATION OF ALARM AT LCD ANNUNCIATOR									
ACTIVATE ALL AUDIBLE & VISIBLE DEVICES									
SHUT DOWN RESPECTIVE HVAC UNIT									
INITIATE ELEV. RECALL TO MAIN FLOOR									
INITIATE ELEV. RECALL TO ALTERNATE FLOOR									
TRANSMIT ALARM SIGNAL TO CENTRAL STATION									
TROUBLE/SUPV. INDICATION AT FACP									
TROUBLE/SUPV. INDICATION AT LCD ANNUNCIATOR									
TRANSMIT TROUBLE/SUPV. SIGNAL TO CENTRAL STATION									

WIRE LEGEND		
A = 18-2 FPLR	ADDRESSABLE INITIATING CKT	
B = 18-2 X 2 FPLR	ADDRESSABLE INITIATING CKT LOOP	
B' = 18-2 X 2 FPLP	ADDRESSABLE INITIATING CKT LOOP	
C = 14-2 FPLR	INDICATING CKT	
C' = 14-2 FPLP	INDICATING CKT	
D = 14-2 X 2 FPLR	INDICATING CKT LOOP	
E = 18-2 FPLR	CONVENTIONAL INITIATING CKT	
F = 18-2 X 2 FPLR	CONVENTIONAL INITIATING CKT LOOP	
G = 14-2 FPLR	24VDC POWER CKT	
H = 18-4 FPLR	SBUS CKT	
I =		
J = 18-4 FPLR	ANNUNCIATOR CKT	
K =		
L = 18-4 FPLR	REMOTE TEST STATION CKT	
M = 14/2 FPLP	SPEAKER CKT	
N = 14/2 X 2 FPLP	SPEAKER CKT LOOP	

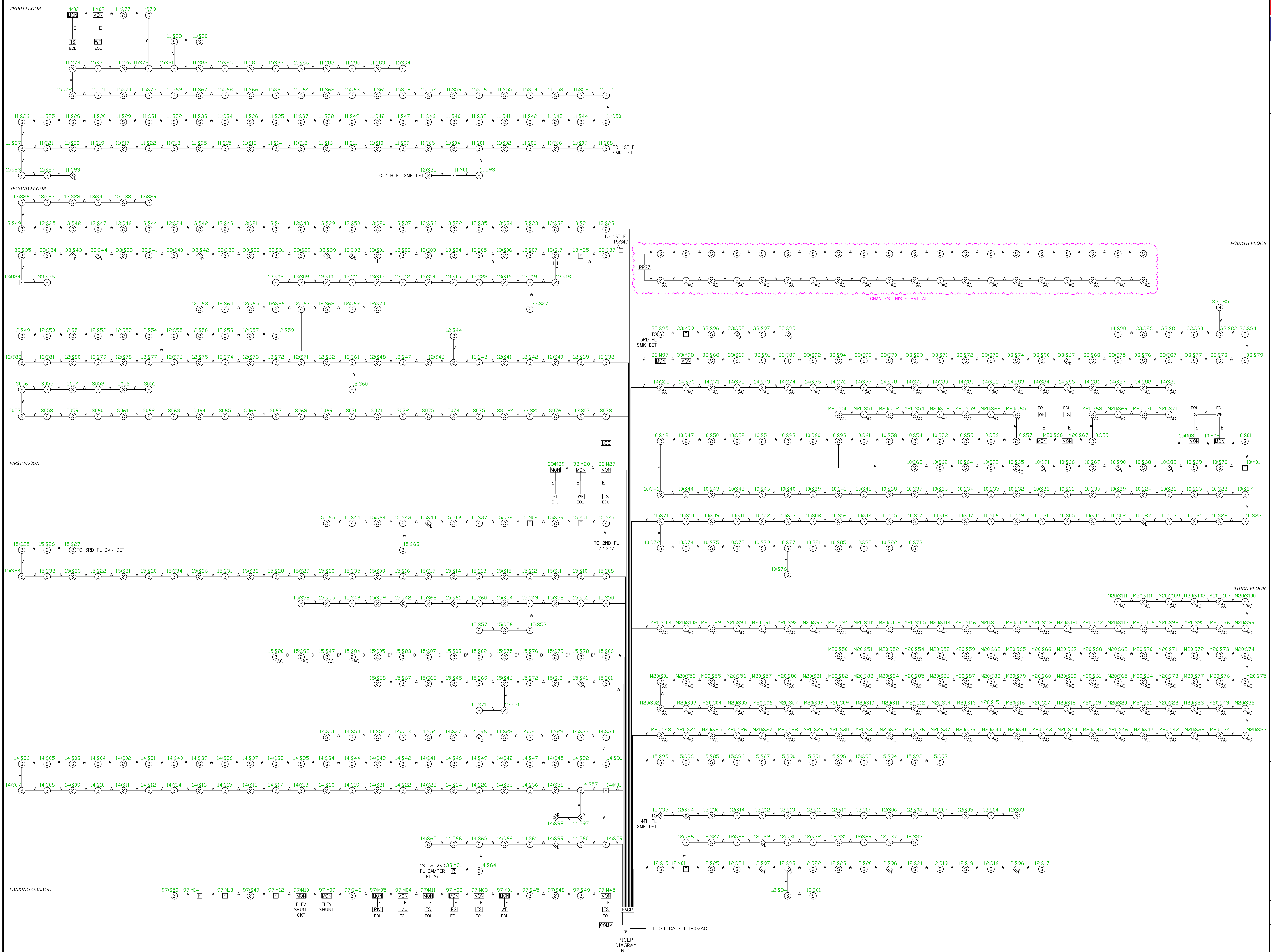


SITE PLAN
SCALE: NTS

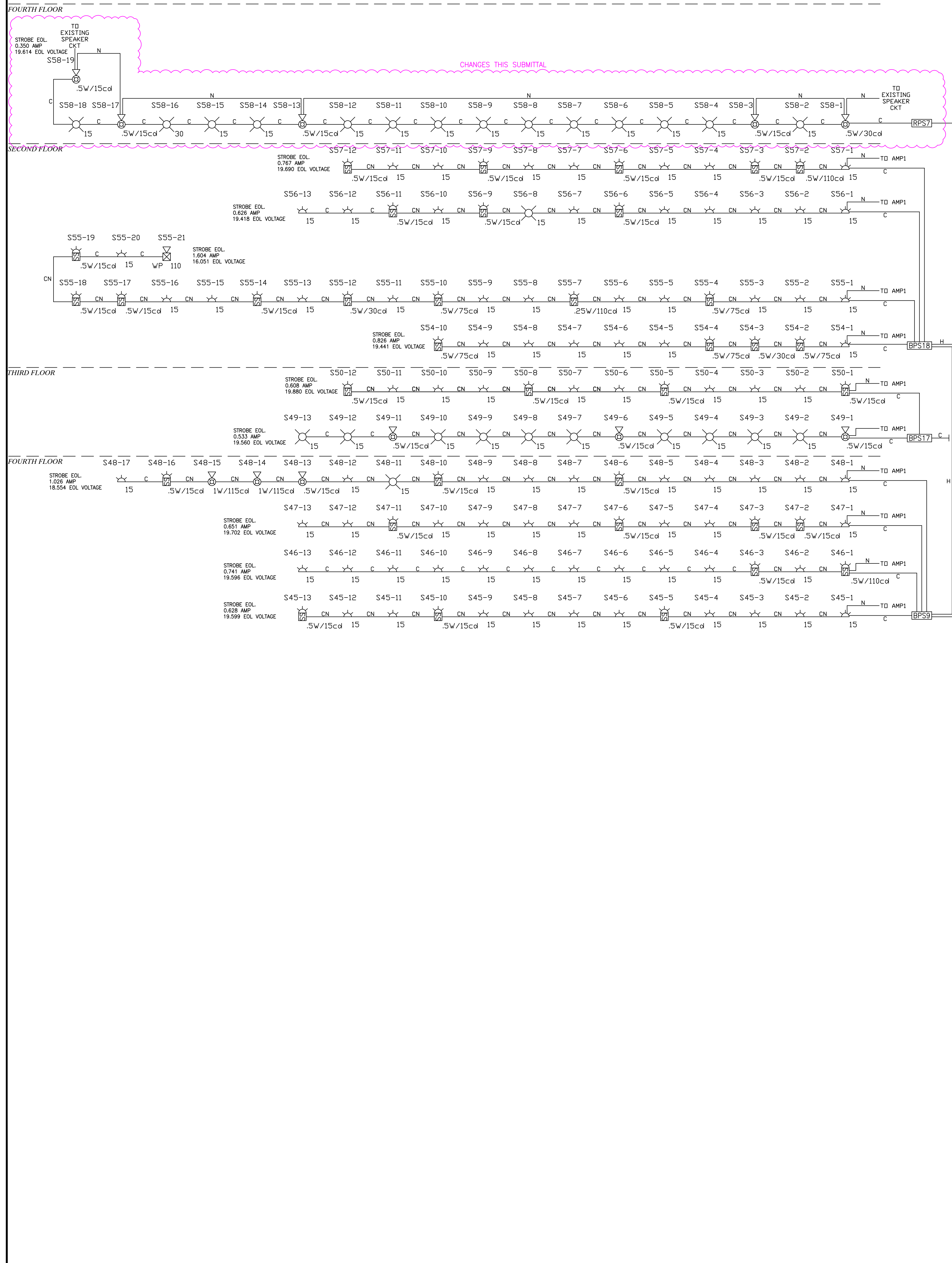


FIRE ALARM SYSTEM

FA-2
SHEET NO.
2 OF 4



FIRE ALARM SYSTEM
MULTICARE GSMOB
SUITE 4200 ANKLE & FOOT CLINIC TENANT IMPROVEMENT
1450 - 5TH STREET SE
PUYALLUP, WASHINGTON 98372



REVISIONS

DATE

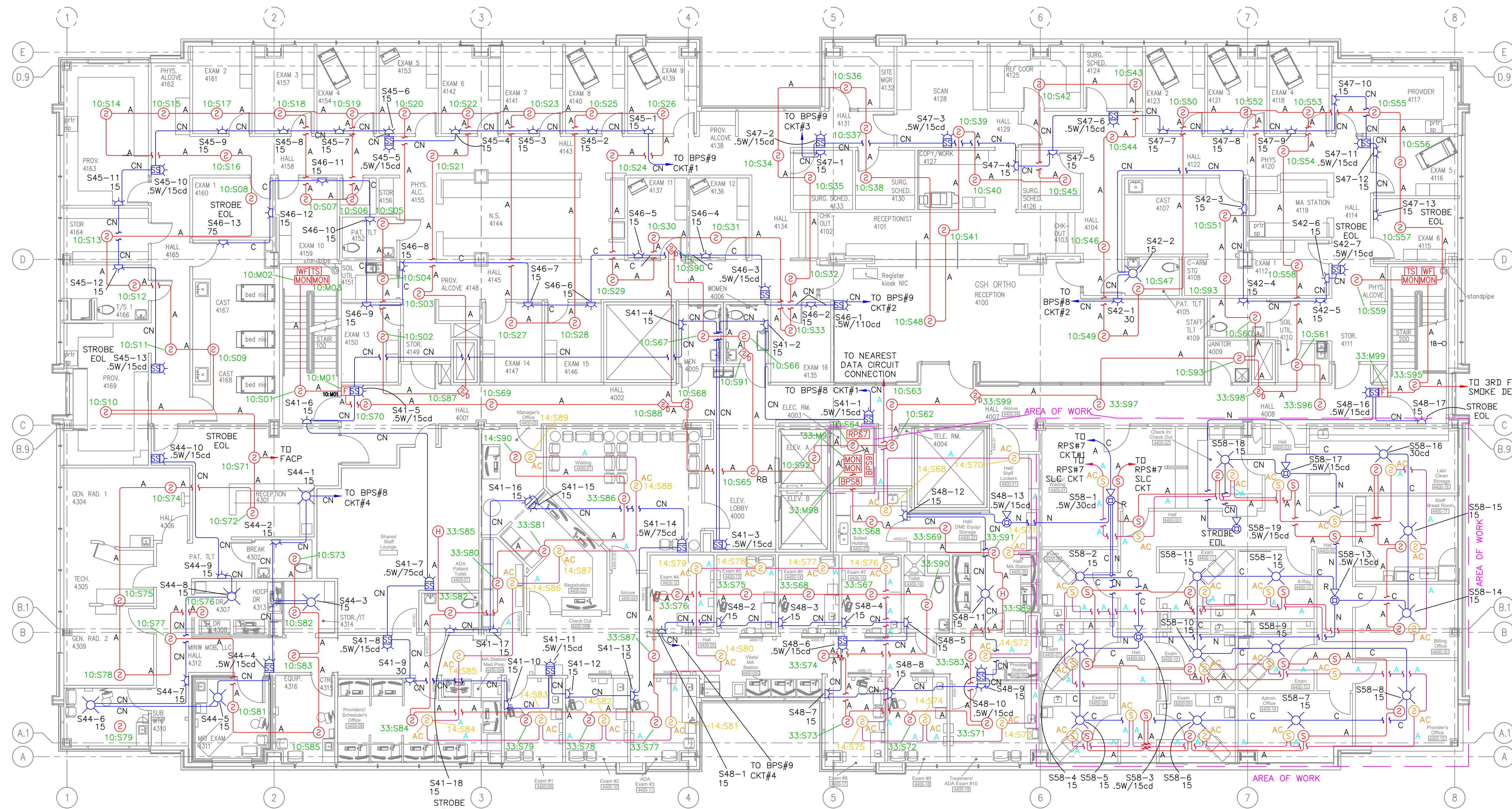
DESCRIPTION

PERMIT DRAWINGS

PROJ. MGR.: Andrew Earle
DRAWN BY: HEW

FA-3
SHEET NO.
3 OF 4

FIRE ALARM SYSTEM
MULTICARE GSMOB
SUITE 4200 ANKLE & FOOT CLINIC TENANT IMPROVEMENT
1450 - 5TH STREET SE
PUYALLUP, WASHINGTON 98372



FOURTH FLOOR - FIRE ALARM FLOOR PLAN
SCALE: 1/8"=1'-0"

REVISIONS		
REV	DATE	DESCRIPTION
	5/2/25	PERMIT DRAWINGS
PROJ. MGR.: Andrew Earle DRAWN BY: HEV		
FA-4 SHEET NO. 4 OF 4		