

Development Services

From Concept to Construction

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More Contact Info (<http://www.portlandoregon.gov/bds/article/519984>)



APPEAL SUMMARY

Status: Decision Rendered

Appeal ID: 22231	Project Address: 230 SW Ash St
Hearing Date: 1/8/20	Appellant Name: Joanne Corrigan
Case No.: B-004	Appellant Phone: 503-627-0100
Appeal Type: Building	Plans Examiner/Inspector: Mike Silva, Brian Crise
Project Type: commercial	Stories: 6 Occupancy: R-2 Construction Type: 1-A, III-B
Building/Business Name: 230 Ash Apartments	Fire Sprinklers: Yes - Full Coverage
Appeal Involves: Erection of a new structure	LUR or Permit Application No.: 19-238122-FS
Plan Submitted Option: pdf [File 1]	Proposed use: Multifamily

APPEAL INFORMATION SHEET

Appeal item 1

Code Section	OSSC 909.12.1
Requires	OSSC 2014 for Smoke Control 909.12.1 Wiring. In addition to meeting requirements of NFPA 70, all wiring, regardless of voltage, shall be fully enclosed within continuous raceways
Code Modification or Alternate Requested	
Proposed Design	OSSC 2019 909.12.2 Wiring Wiring shall be in accordance with the Electrical Code.
Reason for alternative	Due to adding the smoke control panel later/ during rough in, for the elevator pressurization fan, for the project..... Wiring was done in compliance of the OSCC 2019 code.

APPEAL DECISION

Wiring for smoke control system not within fully enclosed continuous raceways: Granted as proposed.

The Administrative Appeal Board finds that the information submitted by the appellant demonstrates that the approved modifications or alternate methods are consistent with the intent of the code; do not lessen health, safety, accessibility, life, fire safety or structural requirements; and that special conditions unique to this project make strict application of those code sections impractical.

Pursuant to City Code Chapter 24.10, you may appeal this decision to the Building Code Board of Appeal within 90 calendar days of the date this decision is published. For information on the appeals process, go to www.portlandoregon.gov/bds/appealsinfo, call (503) 823-7300 or come in to the Development Services Center.

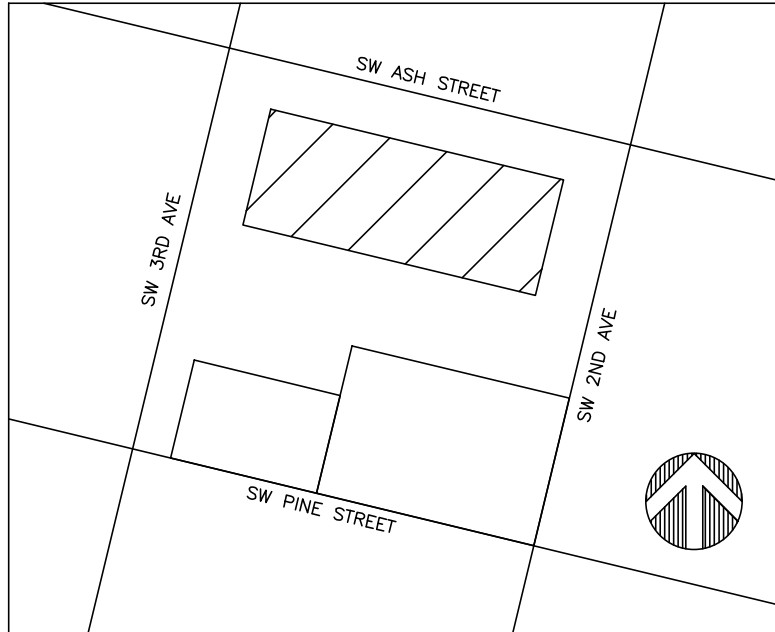
SCOPE OF WORK

INSTALL A NEW ADDRESSABLE CENTRAL STATION FIRE ALARM SYSTEM WHICH INCLUDES: CENTRAL STATION OFF-SITE REPORTING, SPRINKLER FLOW AND TAMPER VALVE MONITORING, MANUAL PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, ELEVATOR CONTROLS, LF HORNS, HORN/STROBES, AND STROBES.

GENERAL NOTES

1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND NFPA 720, ARTICLE 760, POWER LIMITED SYSTEMS.
2. FIRE ALARM WIRE INSTALLED IN VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR SHALL BE RISER RATED.
3. FIRE ALARM WIRE RUN IN DUCTS OR PLENUMS SHALL BE PLENUM RATED.
4. ONLY SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
5. A SYSTEM GROUND MUST BE PROVIDED FOR EARTH DETECTION AND LIGHTNING PROTECTION DEVICES.
6. DEDICATED BRANCH CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED.
7. CIRCUIT DISCONNECT MEANS SHALL HAVE A RED MARKING, IDENTIFIED AS "FIRE ALARM CIRCUIT".
8. AUDIBLE ALARMS SHALL CONFORM TO SECTION 18.4.3 PUBLIC MODE (NFPA 72).
9. CENTRAL STATION MONITORING SHALL BE DOCUMENTED UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH SECTION 26.6.3 (NFPA 72).
10. A RECORD OF COMPLETION SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE ACCEPTANCE TEST INSPECTION IN ACCORDANCE WITH SECTION 14.6.2.4 (NFPA 72).
11. A LOCKABLE DOCUMENT STORAGE CAN SHALL BE PROVIDED.

SITE



TELEDATA SYMBOL LIST

SYMBOL	QTY	DESCRIPTION
	329	TV JACK
	329	DATA JACK
	133	STRUCTURED CABLING CAN
	4	WIRELESS ACCESS POINT

CAMERA SYMBOLS LIST

SYMBOL	QTY	DESCRIPTION
	20	CCTV CAMERA
	1	NETWORK VIDEO RECORDER

SECURITY/ACCESS

SYMBOL	QTY	DESCRIPTION
	1	DOORLOCK
	27	CARD READER
	1	RECEIVER
	1	KEYPAD

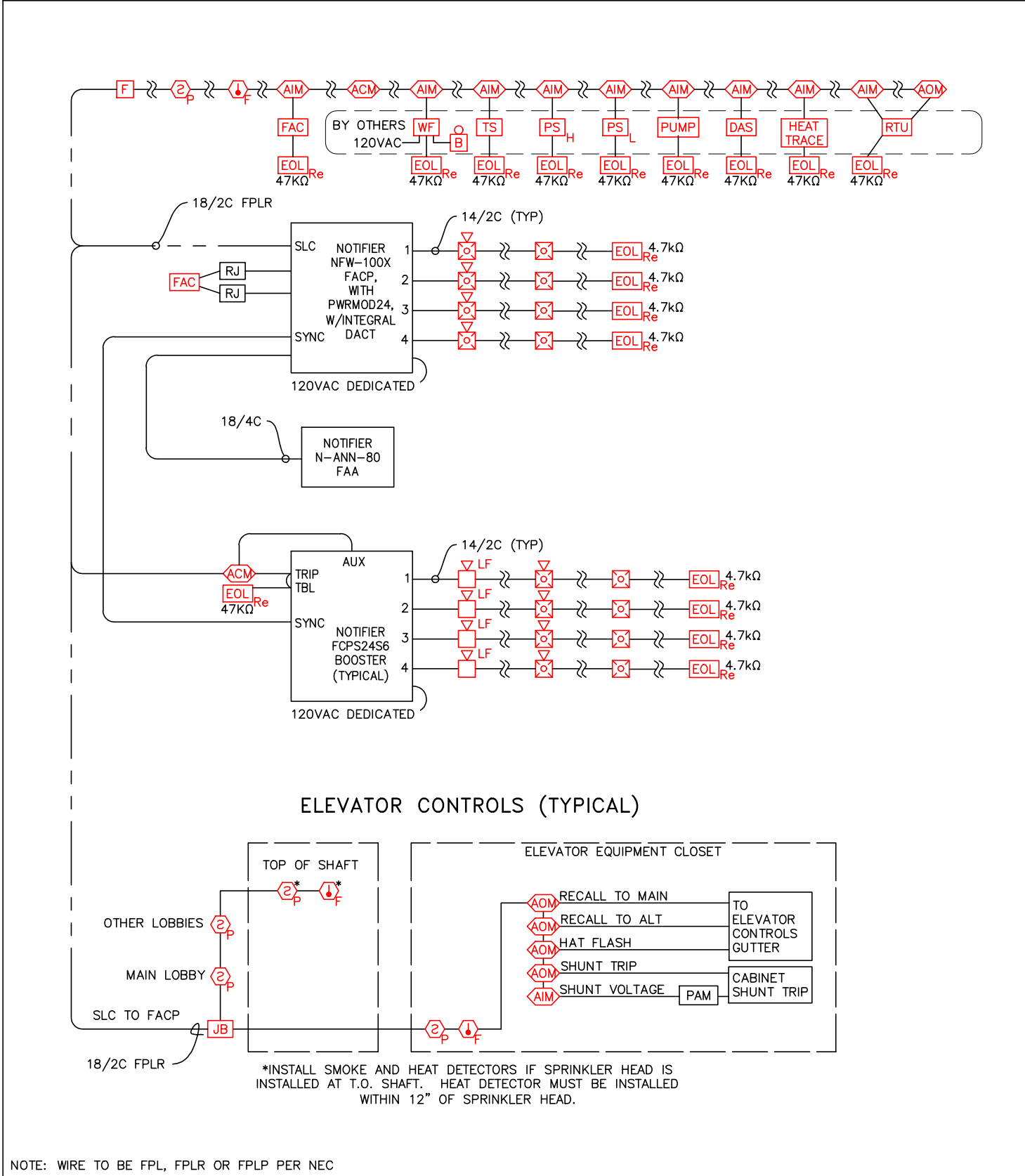
FIRE ALARM EQUIPMENT SYMBOL LIST

SYMBOL	DESCRIPTION	QTY	PART #	ROUGH-IN / NOTE	MOUNTING HEIGHT
	FIRE ALARM CONTROL PANEL	1	NOTIFIER NFS-440 NCA-2	C-SIZE SELF-CONTAINED SURFACE MOUNT 37.125"H X 24"W X 5.218"D	72" TO TOP OF BACKBOX AFF
	CELLULAR DIALER		BY OTHERS	BY OTHERS	BY OTHERS
	FIRE ALARM REMOTE POWER SUPPLY	8	NOTIFIER FCPS-2456	SELF-CONTAINED SURFACE MOUNT 15"H X 14.5"W X 2.75"D	54" TO TOP OF HIGHEST USER FUNCTION AFF
	SMOKE CONTROL PANEL				
	SMOKE CONTROL SWITCH	1	NOTIFIER SCS-8	MOUNTED IN SMOKE CONTROL PANEL	
	SMOKE CONTROL LAMP DRIVER MASTER	1	NOTIFIER SCS-BL	MOUNTED IN SMOKE CONTROL PANEL	
	SMOKE CONTROL LAMP DRIVER EXPANDER	1	NOTIFIER SCS-BL	MOUNTED IN SMOKE CONTROL PANEL	
	FIRE ALARM ANNUNCIATOR PANEL	1	NOTIFIER LQD-160	SEMI-FLUSH MOUNT 3-GANG BACK BOX	54" TO TOP AFF
	WATER FLOW SWITCH	18	BY OTHERS	MONITORED BY NMM-100P	
	TAMPER SWITCH	19	BY OTHERS	MONITORED BY NMM-100P	
	ADDRESSABLE INPUT MODULE - MINI	71	NOTIFIER FMM-101	SINGLE GANG	ALIGN WITH OTHER EQUIPMENT
	ADDRESSABLE OUTPUT MODULE	16	NOTIFIER FRM-1	4" SQUARE X 2.125" DEEP BACK BOX	ALIGN WITH OTHER EQUIPMENT
	ADDRESSABLE CONTROL MODULE	3	NOTIFIER FCM-1	4" SQUARE X 2.125" DEEP BACK BOX	ALIGN WITH OTHER EQUIPMENT
	ADDRESSABLE MANUAL PULL STATION	5	NOTIFIER NOT-BR121XL	4" SQUARE, SINGLE GANG, OR DOUBLE GANG BACK BOX	46" TO CENTER AFF
	PHOTOELECTRIC SMOKE DETECTOR, WITH BASE B300-6	71	NOTIFIER FSP-951 B300-6	4" OCT OR SINGLE GANG	CEILING MOUNT
	FIXED 135 DEGREE HEAT DETECTOR WITH BASE B300-6	3	NOTIFIER NH-100 B300-6	4" OCT OR SINGLE GANG	CEILING MOUNT
	DUCT SMOKE DETECTOR	5	NOTIFIER DNR WITH FSP-951	INSTALLED BY MECHANICAL	INSTALLED BY MECHANICAL
	FIRE SMOKE DAMPER	26	BY OTHERS	INSTALLED BY MECHANICAL	INSTALLED BY MECHANICAL
	HORN/STROBE - WHITE (NAC AND CANDELA NOTED AT DEVICE)	36	SYSTEM SENSOR P2WL	4" SQUARE, 4" OCT, OR DOUBLE GANG BACK BOX	80" MIN TO LENS BOTTOM AFF 96" MAX TO TOP OF LENS AFF 6" MIN TOP OF LENS TO CEILING
	STROBE - WHITE (NAC AND CANDELA NOTED AT DEVICE)	32	SYSTEM SENSOR SWL	4" SQUARE, 4" OCT, OR DOUBLE GANG BACK BOX	80" MIN TO LENS BOTTOM AFF 96" MAX TO TOP OF LENS AFF 6" MIN TOP OF LENS TO CEILING
	CEILING MOUNT HORN/STROBE - WHITE (NAC AND CANDELA NOTED AT DEVICE)	5	SYSTEM SENSOR PCZWL	4" SQUARE, 4" OCT, OR DOUBLE GANG BACK BOX	CEILING MOUNT
	WEATHERPROOF HORN/STROBE - WHITE (NAC AND CANDELA NOTED AT DEVICE)	2	SYSTEM SENSOR P2WK	INCLUDES PLASTIC WEATHERPROOF BACK BOX	80" MIN TO LENS BOTTOM AFF 96" MAX TO TOP OF LENS AFF 6" MIN TOP OF LENS TO CEILING
	CEILING MOUNT STROBE - WHITE (NAC AND CANDELA NOTED AT DEVICE)	11	SYSTEM SENSOR SCWL	4" SQUARE, 4" OCT, OR DOUBLE GANG BACK BOX	CEILING MOUNT
	LOW FREQUENCY HORN/STROBE - WHITE (NAC AND CANDELA NOTED AT DEVICE)	10	SYSTEM SENSOR P2WH-LF	4" SQUARE, 4" OCT, OR DOUBLE GANG BACK BOX	80" MIN TO LENS BOTTOM AFF 96" MAX TO TOP OF LENS AFF 6" MIN TOP OF LENS TO CEILING
	LOW FREQUENCY HORN - WHITE (NAC NOTED AT DEVICE)	185	SYSTEM SENSOR HW-LF	4" SQUARE, 4" OCT, OR DOUBLE GANG BACK BOX	80" MIN TO LENS BOTTOM AFF 96" MAX TO TOP OF LENS AFF 6" MIN TOP OF LENS TO CEILING
	120 VOLT WATER FLOW BELL	1	BY OTHERS	BY OTHERS	BY OTHERS
	DOCUMENT ENCLOSURE	1	MER BW-DOCBOX	15"W X 13"H X 4"D	54" TO TOP OF HIGHEST USER FUNCTION AFF
	PRINTER	1	NOTIFIER PRN-7	18"W X 7.9"H X 10.4"D	

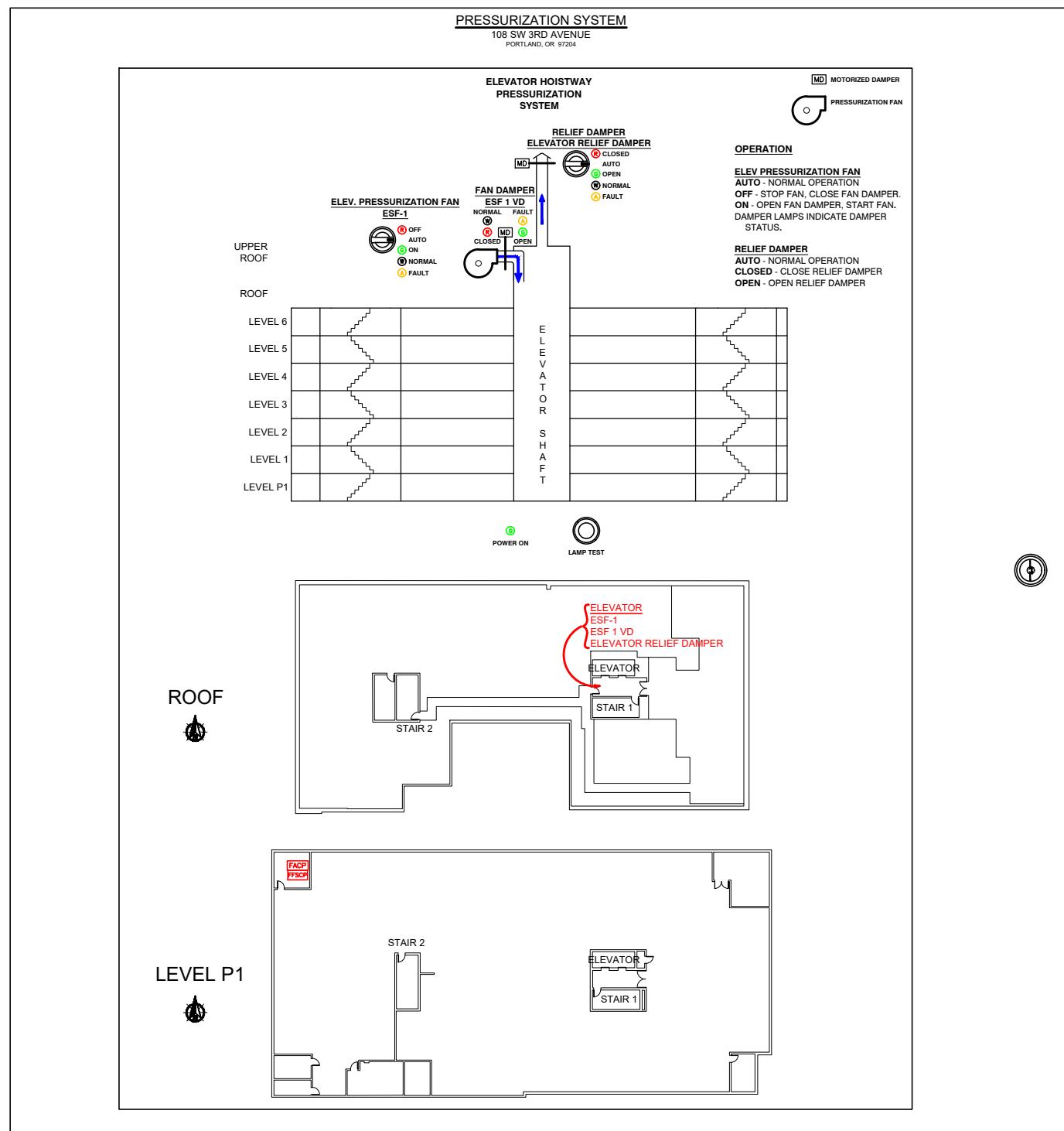
ELEVATOR INTERCOM SYMBOL LIST

SYMBOL	DESCRIPTION	QTY	MANUFACTURER	PART#
	2-WAY COMMUNICATION MASTER	1	TALK-A-PHONE	AGR-8 WITH FLUSH MOUNT BACKBOX AND TRIM RING AGR-TR16
	2-WAY COMMUNICATION REMOTE	7	TALK-A-PHONE	ETP-110 WITH FLUSH MOUNT BACK BOX FM-110

FIRE ALARM RISER DIAGRAM



MINIMUM TEXT SIZE ON PANEL IS 12 POINT FONT

PRESSURIZATION PANEL
NOT TO SCALE

FIRE ALARM OPERATIONAL MATRIX

SYSTEM INPUTS	SYSTEM OUTPUTS											
	ALARM AT FAC	ALARM AT FAC	TROUBLE AT FAC	TROUBLE AT FAC	SUPERVISORY AT FAC	SUPERVISORY AT FAC	ACTIVE ALARMS	ACTIVE ALARMS	ACTIVE ALARMS	ACTIVE ALARMS	ACTIVE ALARMS	ACTIVE ALARMS
PULL STATION	•	•	•	•	•	•	•	•	•	•	•	•
SMOKE DETECTOR - NON ELEVATOR	•	•	•	•	•	•	•	•	•	•	•	•
SPRINKLER FLOW SWITCH	•	•	•	•	•	•	•	•	•	•	•	•
SPRINKLER TAMPER SWITCH					•	•						
HIGH PRESSURE SWITCH					•	•						
DUCT DETECTOR					•	•						
PUMP MONITOR POINTS					•	•						
COMMUNICATOR TROUBLE					•	•						
DAS TROUBLE					•	•						
GENERATOR MONITOR					•	•						
LOSS OF AC POWER AT FACP					•	•						
OPEN CIRCUIT					•	•						
DISCONNECTION OF BATTERIES					•	•						
GROUND FAULT					•	•						
SMOKE DET. - ELEVATOR LOBBY MAIN FLOOR	•	•			•	•	•	•	•	•	•	•
SMOKE DET. - ELEVATOR LOBBY OTHER FLOORS	•	•			•	•	•	•	•	•	•	•
SMOKE DET. - TOP OF SHAFT	•	•			•	•	•	•	•	•	•	•
SMOKE DET. - ELEV MACH RM	•	•			•	•	•	•	•	•	•	•
HEAT DET. - ELEV MACH RM/TOP OF SHAFT	•	•			•	•	•	•	•	•	•	•
SHUNT VOLTAGE MONITOR					•	•						
PRESS SIGNAL SILENCE KEY										•	•	
PRESS RESET KEY											•	

SW 3RD AND ASH

108 SW 3RD AVENUE
PORTLAND, OR 97204

LOW VOLTAGE SYSTEMS

DWG REV. / DATE
1 04/16/2018 ASI#1
2 08/23/2018 ASI#7
3 10/19/2018 ASI#8
4 03/29/2019 MDU/WAP
UPDATE
4a 04/19/19 TELEDATA
4b 05/02/19 AV
4c 11/01/19 PRESS.
PANEL

DRAWN BY:

TMB

CHECKED BY:

JPC

FILE NAME:

LV.dwg

DRAWING #:

LV-1

ORIGINAL SHEET SIZE: 24"x 36"

OF DWGS IN SET:

SHEET 1 OF 11

BATTERY CALCULATIONS
NOTIFIER NFW-100X (WATER/FIRE 009)

PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
NFS2-640	MAIN CIRCUIT BOARD	1	0.2500	0.2500	0.2570	0.2570
PWRMOD24	POWER EXPANDER MODULE	1	0.0070	0.0070	0.0080	0.0080
FOU-80	REMOTE ANNUNCIATOR	1	0.0250	0.0250	0.0643	0.0643
NOT-BD12LX	PULL STATION ADDR	5	0.0004	0.0019		
FSP-951	PHOTOELECT ADDR HEAD	76	0.0002	0.0152		
FST-971	HEAT DETECTOR HEAD	3	0.0002	0.0006		
FAM-101	MAIN MONITOR MODULE	71	0.0004	0.0266		
FRM-1	RELAY MODULE	14	0.0003	0.0039		
FCM-1	CONTROL MODULE	3	0.0003	0.0008		
SLC ALARM	MAX SLC ALARM CURRENT	1	0.0000	0.0000	0.4000	0.4000
N0-1	NOTIFICATION	1	0.0000	0.0000	1.0360	1.0360
N0-2	NOTIFICATION	1	0.0000	0.7900	0.7900	
N0-3	NOTIFICATION	1	0.0000	0.5000	0.3710	0.3710
N0-4	NOTIFICATION	1	0.0000	0.0000	0.5400	0.5400
	STANDBY TOTAL		0.3310	0.0310	ALARM TOTAL	3.4663
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.3310	X	24	=	7.9434	--
ALARM	3.4663	X	0.0833	=	0.2889	--
				TOTAL AH =	8.2323	9.8787
BATTERIES TO BE INSTALLED: 12.0 AH						

BATTERY CALCULATIONS
NOTIFIER FCPS-24S6 #1 (DATA/ELEC 229)

PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
FCPS-24S6	MAIN CIRCUIT BOARD	1	0.0650	0.0650	0.1450	0.1450
N1-1	NOTIFICATION	1	0.0000	0.0000	0.3890	0.3890
N1-2	NOTIFICATION	1	0.0000	0.0000	0.5110	0.5110
N1-3	NOTIFICATION	1	0.0000	0.0000	1.0830	1.0830
N1-4	NOTIFICATION	1	0.0000	0.0000	1.0630	1.0630
	STANDBY TOTAL		0.0650	0.0650	ALARM TOTAL	3.1910
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.0650	X	24	=	1.5600	--
ALARM	3.1910	X	0.0833	=	0.2659	--
				TOTAL AH =	1.8259	2.1911
BATTERIES TO BE INSTALLED: 7.0 AH						

BATTERY CALCULATIONS
NOTIFIER FCPS-24S6 #3 (DATA/ELEC 329)

PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
FCPS-24S6	MAIN CIRCUIT BOARD	1	0.0650	0.0650	0.1450	0.1450
N3-1	NOTIFICATION	1	0.0000	0.0000	1.4460	1.4460
N3-2	NOTIFICATION	1	0.0000	0.0000	1.1170	1.1170
N3-3	NOTIFICATION	1	0.0000	0.0000	1.0200	1.0200
N3-4	NOTIFICATION	1	0.0000	0.0000	0.8710	0.8710
	STANDBY TOTAL		0.0650	0.0650	ALARM TOTAL	4.5990
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.0650	X	24	=	1.5600	--
ALARM	4.5990	X	0.0833	=	0.3832	--
				TOTAL AH =	1.9433	2.3319
BATTERIES TO BE INSTALLED: 7.0 AH						

BATTERY CALCULATIONS
NOTIFIER FCPS-24S6 #5 (DATA/ELEC 429)

PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
FCPS-24S6	MAIN CIRCUIT BOARD	1	0.0650	0.0650	0.1450	0.1450
N5-1	NOTIFICATION	1	0.0000	0.0000	1.0200	1.0200
N5-2	NOTIFICATION	1	0.0000	0.0000	0.8710	0.8710
N5-3	NOTIFICATION	1	0.0000	0.0000	0.8820	0.8820
N5-4	NOTIFICATION	1	0.0000	0.0000	1.4370	1.4370
	STANDBY TOTAL		0.0650	0.0650	ALARM TOTAL	4.3550
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.0650	X	24	=	1.5600	--
ALARM	4.3550	X	0.0833	=	0.3629	--
				TOTAL AH =	1.9229	2.3075
BATTERIES TO BE INSTALLED: 7.0 AH						

BATTERY CALCULATIONS
NOTIFIER FCPS-24S6 #7 (DATA/ELEC 529)

PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
FCPS-24S6	MAIN CIRCUIT BOARD	1	0.0650	0.0650	0.1450	0.1450
N7-1	NOTIFICATION	1	0.0000	0.0000	0.8820	0.8820
N7-2	NOTIFICATION	1	0.0000	0.0000	1.0200	1.0200
N7-3	NOTIFICATION	1	0.0000	0.0000	1.3040	1.3040
N7-4	NOTIFICATION	1	0.0000	0.0000	1.3470	1.3470
	STANDBY TOTAL		0.0650	0.0650	ALARM TOTAL	4.6890
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.0650	X	24	=	1.5600	--
ALARM	4.6890	X	0.0833	=	0.3915	--
				TOTAL AH =	1.9515	2.3418
BATTERIES TO BE INSTALLED: 7.0 AH						

BATTERY CALCULATIONS
NOTIFIER FCPS-24S6 #2 (DATA/ELEC 329)

PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
FCPS-24S6	MAIN CIRCUIT BOARD	1	0.0650	0.0650	0.1450	0.1450
N2-1	NOTIFICATION	1	0.0000	0.0000	1.4370	1.4370
N2-2	NOTIFICATION	1	0.0000	0.0000	0.8710	0.8710
N2-3	NOTIFICATION	1	0.0000	0.0000	0.8820	0.8820
N2-4	NOTIFICATION	1	0.0000	0.0000	1.1120	1.1120
	STANDBY TOTAL		0.0650	0.0650	ALARM TOTAL	4.4470
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.0650	X	24	=	1.5600	--
ALARM	4.4470	X	0.0833	=	0.3708	--
				TOTAL AH =	1.9306	2.3167
BATTERIES TO BE INSTALLED: 7.0 AH						

BATTERY CALCULATIONS
NOTIFIER FCPS-24S6 #4 (DATA/ELEC 429)

PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
FCPS-24S6	MAIN CIRCUIT BOARD	1	0.0650	0.0650	0.1450	0.1450
N4-1	NOTIFICATION	1	0.0000	0.0000	0.8820	0.8820
N4-2	NOTIFICATION	1	0.0000	0.0000	1.0200	1.0200
N4-3	NOTIFICATION	1	0.0000	0.0000	1.2590	1.2590
N4-4	NOTIFICATION	1	0.0000	0.0000	1.2010	1.2010
	STANDBY TOTAL		0.0650	0.0650	ALARM TOTAL	4.5070
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.0650	X	24	=	1.5600	--
ALARM	4.5070	X	0.0833	=	0.3756	--
				TOTAL AH =	1.9356	2.3227
BATTERIES TO BE INSTALLED: 7.0 AH						

BATTERY CALCULATIONS
NOTIFIER FCPS-24S6 #6 (DATA/ELEC 529)

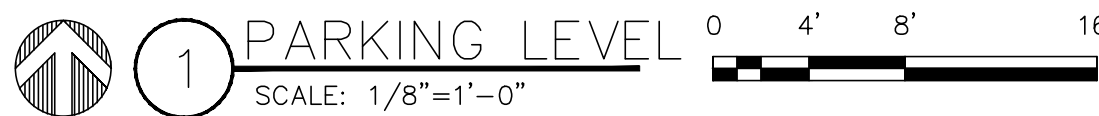
PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
FCPS-24S6	MAIN CIRCUIT BOARD	1	0.0650	0.0650	0.1450	0.1450
N6-1	NOTIFICATION	1	0.0000	0.0000	1.2590	1.2590
N6-2	NOTIFICATION	1	0.0000	0.0000	1.3470	1.3470
N6-3	NOTIFICATION	1	0.0000	0.0000	1.0370	1.0370
N6-4	NOTIFICATION	1	0.0000	0.0000	0.8710	0.8710
	STANDBY TOTAL		0.0650	0.0650	ALARM TOTAL	4.6590
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.0650	X	24	=	1.5600	--
ALARM	4.6590	X	0.0833	=	0.3882	--
				TOTAL AH =	1.9483	2.3379
BATTERIES TO BE INSTALLED: 7.0 AH						

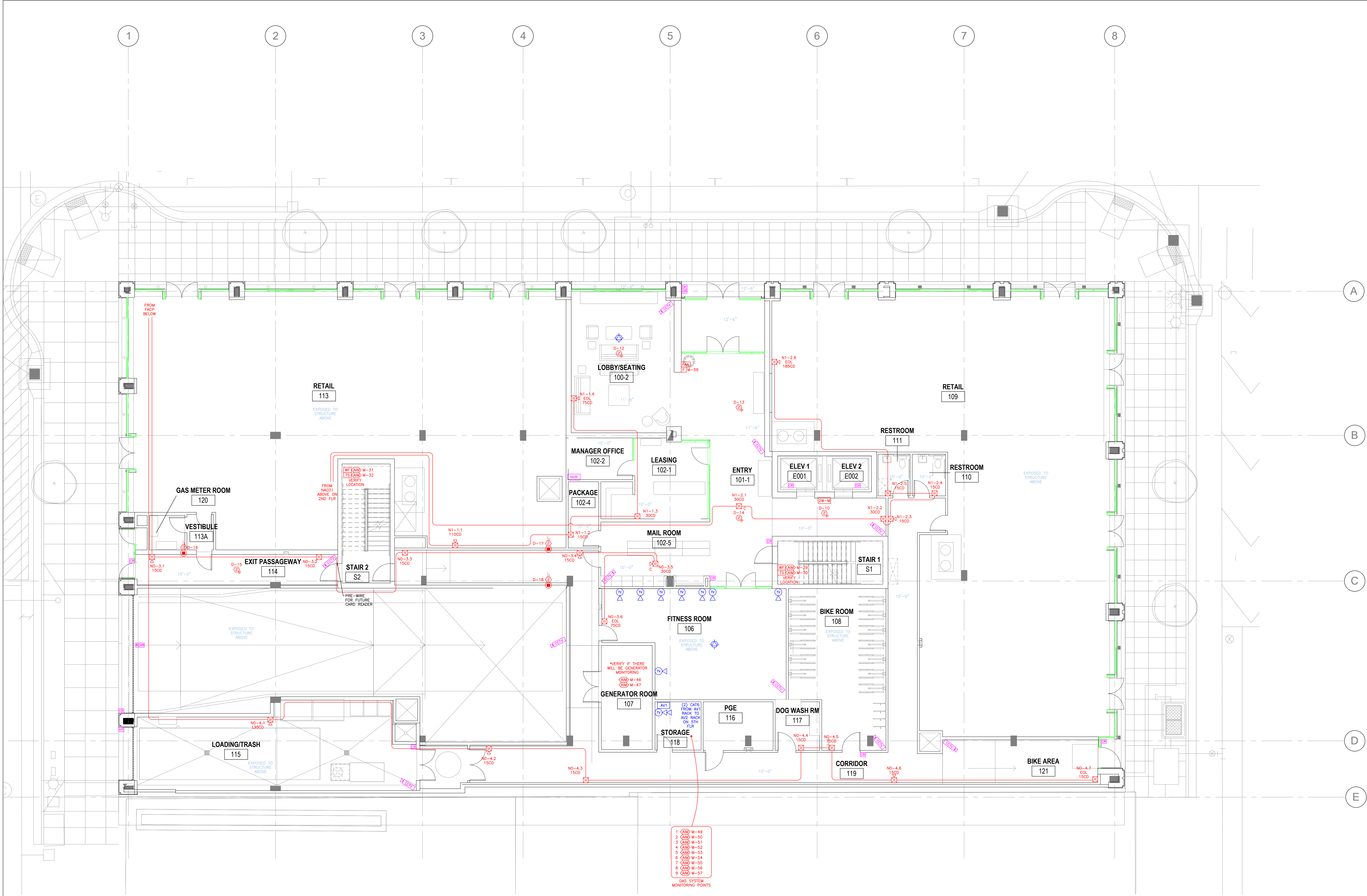
BATTERY CALCULATIONS
NOTIFIER FCPS-24S6 #8 (DATA/ELEC 629)

PART #	DESCRIPTION	QTY	STANDBY	STANDBY TOTAL	ALARM	ALARM TOTAL
FCPS-24S6	MAIN CIRCUIT BOARD	1	0.0650	0.0650	0.1450	0.1450
N8-1	NOTIFICATION	1	0.0000	0.0000	1.0170	1.0170
N8-2	NOTIFICATION	1	0.0000	0.0000	0.8710	0.8710
N8-3	NOTIFICATION	1	0.0000	0.0000	0.8820	0.8820
N8-4	SPARE	1	0.0000	0.0000	0.7390	0.7390
	STANDBY TOTAL		0.0650	0.0650	ALARM TOTAL	3.6540
CALCULATIONS BASED ON 24 HR STANDBY TIME & 5 MIN ALARM TIME						
	AMPS (A)	X	TIME (H)	=	AMP-HRS (AH)	20% DERATE
STANDBY	0.0650	X	24	=	1.5600	--
ALARM	3.6540	X	0.0833	=	0.3045	--
				TOTAL AH =	1.8645	2.2374
BATTERIES TO BE INSTALLED: 7.0 AH						

NOTIFICATION CIRCUIT SCHEDULE
VOLTAGE DROP CALCULATIONS

CKT #	DEVICE	LOCATION / AREA	CIRCUIT ORIGIN	TOTAL AMPS	WIRE SIZE	VOLT DROP AT EOL	ACCEPTED VOLT DROP
N0-1	HORN/STROBES AND STROBES	PARKING GARAGE (SOUTH) AND BIKE AREA 006	FACP	1.036	335	14	2.13
N0-2	HORN/STROBES AND STROBES	PARKING GARAGE (NORTH) AND BIKE AREA 008	FACP	0.790	395	14	1.92
N0-3	HORN/STROBES AND STROBES	FLR 1 EXIT PASSAGEWAY, MAIL ROOM, FITNESS ROOM	FACP	0.371	320	14	0.73
N0-4	HORN/STROBES AND STROBES	FLR 1 LOADING/TRASH, CORRIDOR 119, BIKE AREA	FACP	0.540	445	14	1.48
N1-1	HORN/STROBES AND STROBES	FLR 3 RETAIL, PACKAGE, LEASING, LOBBY/SEATING	NAC01	0.389	225	14	0.54
N1-2	LF HORNS AND HORN/STROBE	FLR 2 ENTRY, RESTROOMS, RETAIL	NAC01	0.511	330	14	1.04
N1-3	LF HORNS, HORN/STROBE, AND STROBE	FLR 2 UNITS 215-219, ELEVATOR LOBBY 223	NAC01	1.083	430	14	2.86
N1-4	LF HORNS AND STROBE	FLR 2 BIKE ROOM, UNITS 219-227, CORRIDOR 234	NAC01	1.063	380	14	2.48
N2-1	LF HORNS, HORN/STROBE, AND STROBE	FLR 2 UNITS 211-214, CORRIDOR 233	NAC02	1.437	385	14	3.40
N2-2	LF HORNS AND HORN/STROBE	FLR 2 UNITS 208-210, CORRIDOR 232	NAC02	0.871	370	14	1.98
N2-3	LF HORNS AND STROBE	FLR 2 UNITS 204-207, CORRIDOR 233	NAC02	0.882	340	14	1.84
N2-4	LF HORNS AND HORN/STROBE	FLR 2 UNITS 201-203, UNITS 203-231, CORRIDOR 232	NAC02	1.112	335	14	2.29
N3-1	LF HORNS, HORN/STROBES, AND STROBE	FLR 3 UNITS 315-318, ELEVATOR LOBBY 323	NAC03	1.446	465	14	4.13
N3-2	LF HORNS AND HORN/STROBES	FLR 3 BIKE ROOM, UNITS 319-327, CORRIDOR 334	NAC03	1.117	415	14	2.85
N3-3	LF HORNS AND HORN/STROBE	FLR 3 UNITS 311-314, CORRIDOR 333	NAC03	1.020	370	14	2.32
N3-4	LF HORNS AND STROBE	FLR 3 308-310, CORRIDOR 332	NAC03	0.871	345	14	1.85
N4-1	LF HORNS AND HORN/STROBE	FLR 3 UNITS 304-307, CORRIDOR 333	NAC04	0.882	295	14	1.60
N4-2	LF HORNS AND HORN/STROBE	FLR 3 UNITS 301-303, 330-331, CORRIDOR 332	NAC04	1.020	320	14	2.00
N4-3	LF HORNS, HORN/STROBE, AND STROBES	FLR 4 UNIT 415-418, ELEVATOR LOBBY 423	NAC04	1.259	470	14	3.63
N4-4	LF HORNS AND HORN/STROBES	FLR 4 UNITS BIKE ROOM, 419-427, CORRIDOR 434	NAC04	1.201	415	14	3.06
N5-1	LF HORNS AND HORN/STROBE	FLR 4 411-414, CORRIDOR 433	NAC05	1.020	360	14	2.25
N5-2	LF HORNS AND STROBE	FLR 4 UNITS 408-410, CORRIDOR 432	NAC05	0.871	335	14	1.79
N5-3	LF HORNS AND HORN/STROBE	FLR 4 UNITS 404-407, CORRIDOR 433	NAC05	0.882	280	14	1.52
N5-4	LF HORNS, HORN/STROBES, AND STROBE	FLR 4 UNITS 401-403, UNITS 430-431, CORRIDOR 432	NAC05	1.437	320	14	2.82
N6-1	LF HORNS AND STROBE	FLR 5 UNITS 515-518, ELEVATOR LOBBY 523	NAC06	1.259	495	14	3.83
N6-2	LF HORNS, HORN/STROBES, AND STROBE	FLR 5 BIKE ROOM, UNITS 519-527, CORRIDOR 534	NAC06	1.347	415	14	3.43
N6-3	LF HORNS AND HORN/STROBE	FLR 5 UNITS 511-514, CORRIDOR 533	NAC06	1.037	360	14	2.29
N6-4	LF HORNS AND STROBE	FLR 5 UNITS 508-510, CORRIDOR 532	NAC06	0.871	335	14	1.79
N7-1	LF HORNS AND HORN/STROBE	FLR 5 UNITS 504-507, CORRIDOR 533	NAC07	0.882	295	14	1.60
N7-2	LF HORNS AND HORN/STROBE	FLR 5 UNITS 501-503, UNITS 530-531, CORRIDOR 532	NAC07	1.020	310	14	1.94
N7-3	LF HORNS AND STROBE	FLR 6 UNITS 615-618, ELEVATOR LOBBY 623	NAC07	1.304	535	14	4.28
N7-4	LF HORNS, HORN/STROBES, AND STROBE	FLR 6 UNITS 619-627, CORRIDOR 634	NAC07	1.347	445	14	3.68
N8-1	LF HORNS AND HORN/STROBE	FLR 6 UNITS 611-614, CORRIDOR 633	NAC08	1.071	395	14	2.47
N8-2	LF HORNS AND HORN/STROBE	FLR 6 UNITS 608-610, CORRIDOR 633	NAC08	0.871	330	14	1.76
N8-3	LF HORNS AND HORN/STROBE	FLR 6 UNITS 604-607, CORRIDOR 633	NAC08	0.882	285	14	1.54
N8-4	LF HORNS, HORN/STROBES, AND STROBE	FLR 6 RESTROOM, AMENITY ROOM, UNITS 601-603, CORRIDOR 632	NAC08	0.739	350	14	1.59





LEVEL 1
SCALE: 1/8"=1'-0"

NOTE: ALL CEILINGS IN
UNITS AND CORRIDORS ARE
GYPSUM

SW 3RD AND ASH

108 SW 3RD AVENUE
PORTLAND, OR 97204

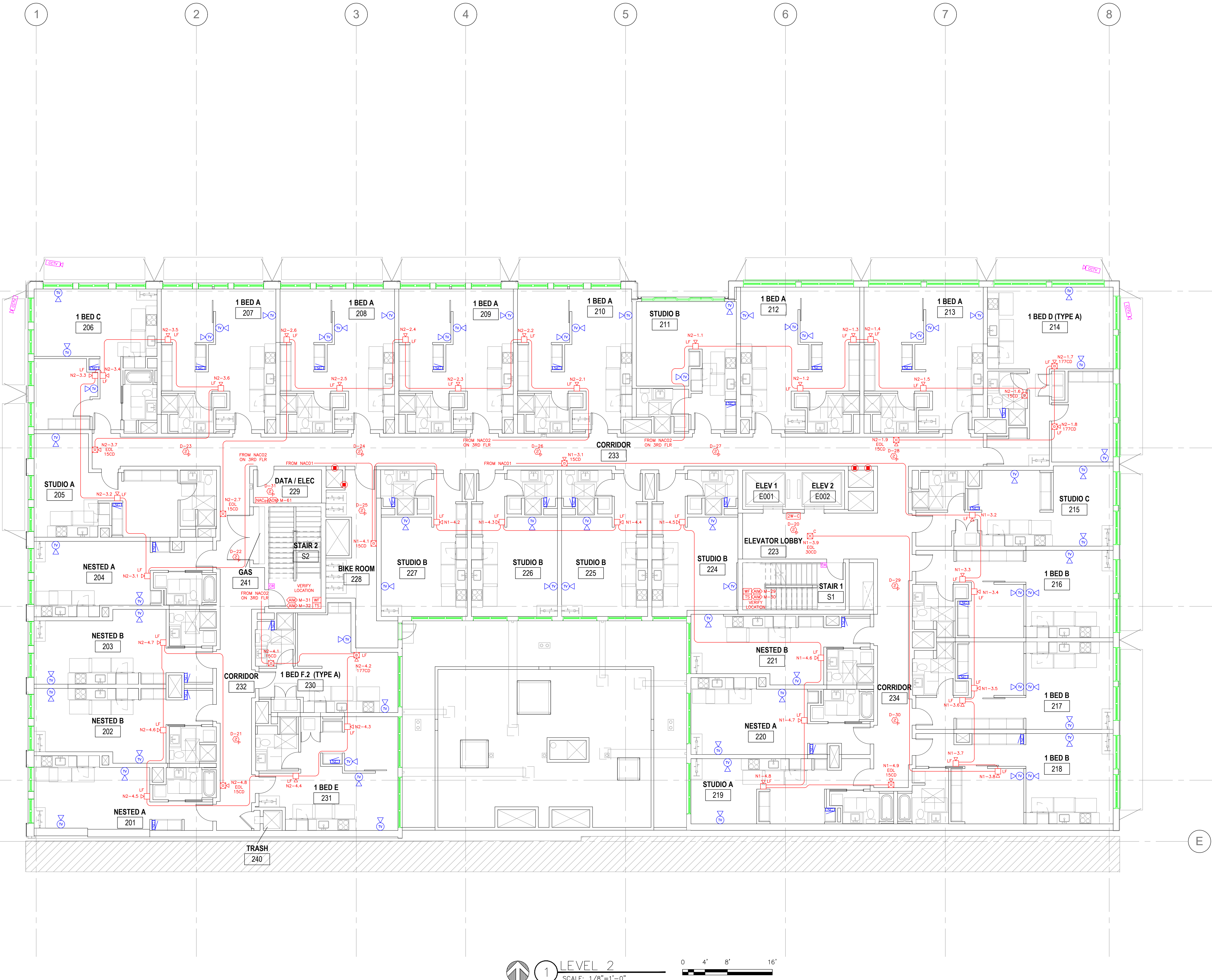
LOW VOLTAGE SYSTEMS

DWG REV. / DATE
1 04/16/2018 ASI#1
2 08/23/2018 ASI#7
3 10/19/2018 ASI#8
4 03/29/2019 MDU/WAP
UPDATE
4a 04/19/19 TELEDATA
4b 05/02/19 AV
4c 11/01/19 PRESS.
PANEL

DRAWN BY:
TMB
CHECKED BY:
JPC
FILE NAME:
LV.dwg
DRAWING #:

LV-5

ORIGINAL SHEET SIZE: 24"x 36"
OF DWGS IN SET:
SHEET 5 OF 11



point **Monitor**

DRAWINGS PREPARED BY:

5863 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 627-0100



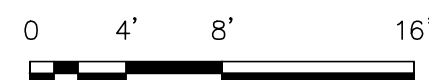
108 SW 3RD AVENUE
PORTLAND, OR 97204

WG REV. / DATE
04/16/2018 ASI#1
08/23/2018 ASI#7
10/19/2018 ASI#8
03/29/2019 MDU/WAP
UPDATE
a 04/19/19 TELEDATA
b 05/02/19 AV
c 11/01/19 PRESS.
PANEL

LV-6



LEVEL 3
 SCALE: 1/8"=1'-0"



NOTE: ALL CEILINGS IN
UNITS AND CORRIDORS ARE
GYPSUM

5603 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 827-0100

Point
Monitor
CORPORATION

SW 3RD AND ASH

108 SW 3RD AVENUE
PORTLAND, OR 97204

LOW VOLTAGE SYSTEMS

DWG REV. / DATE
1 04/16/2018 ASI#1
2 08/23/2018 ASI#7
3 10/19/2018 ASI#8
4 03/29/2019 MDU/WAP
UPDATE
4a 04/19/19 TELEDATA
4b 05/02/19 AV
4c 11/01/19 PRESS.
PANEL

DRAWN BY:

TMB

CHECKED BY:

JPC

FILE NAME:

LV.dwg

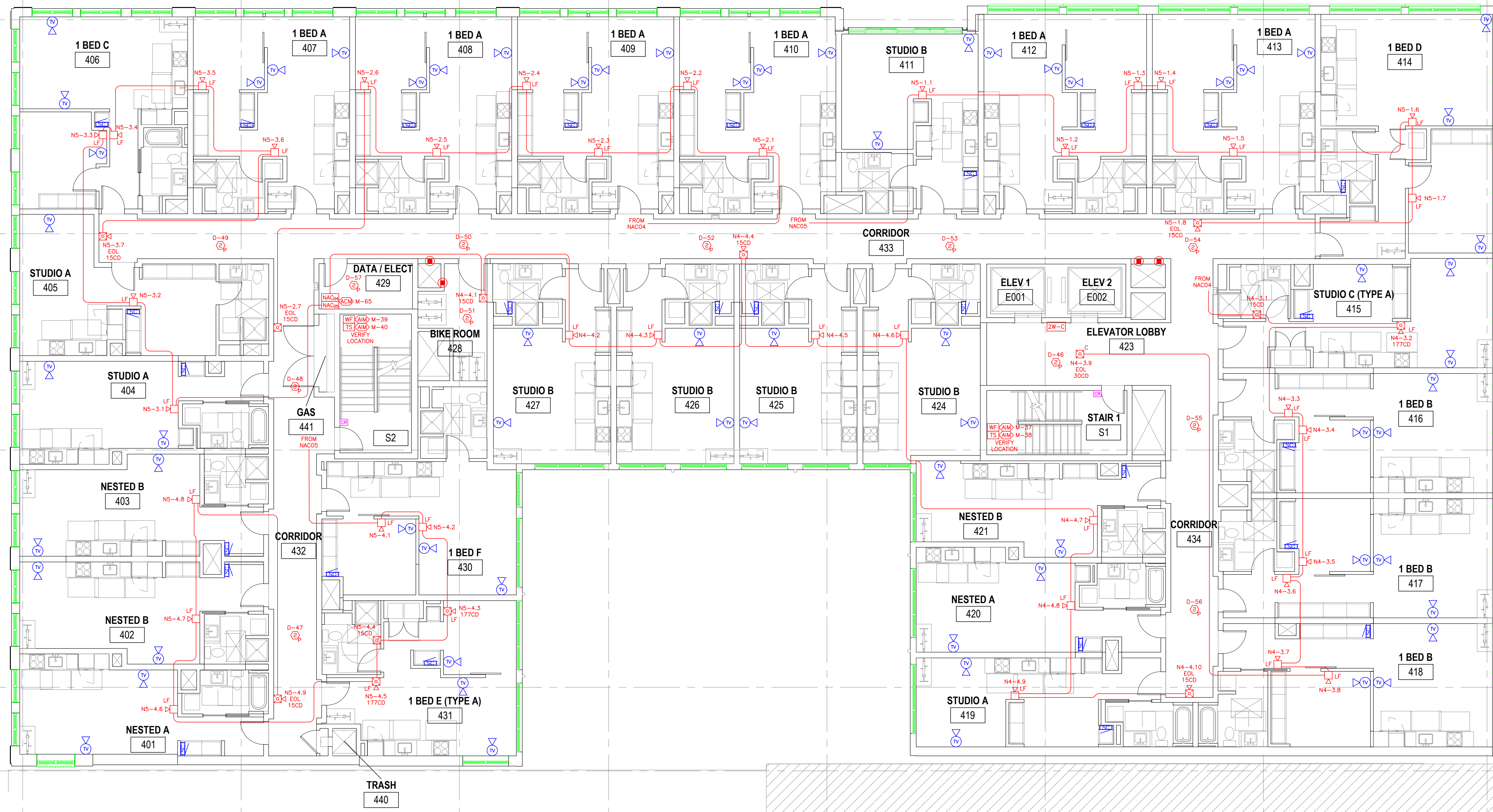
DRAWING #:

LV-7

ORIGINAL SHEET SIZE: 24" x 36"

OF DWGS IN SET:

SHEET 7 OF 11



1

LEVEL 4
SCALE: 1/8"=1'-0"

0 4' 8' 16'

5863 LAKEVIEW BLVD. #100
LAKE OSWEGO, OR 97035
(503) 627-0100

SW 3RD AN
108 SW 3RD AVENUE
PORTLAND, OR 97204

DWG REV. / DATE
1 04/16/2018 ASI#1
2 08/23/2018 ASI#7
3 10/19/2018 ASI#8
4 03/29/2019 MDU/WAP
UPDATE
4a 04/19/19 TELEDATA
4b 05/02/19 AV
4c 11/01/19 PRESS.
PANEL

ORIGINAL SHEET SIZE: 24"x36"

OF DWGS IN SET:
SHEET 8 OF 11



NOTE: ALL CEILINGS IN
UNITS AND CORRIDORS ARE
GYPSUM

DWG REV. / DATE
1 04/16/2018 ASI#1
2 08/23/2018 ASI#7
3 10/19/2018 ASI#8
4 03/29/2019 MDU/WAP
UPDATE
4a 04/19/19 TELEDATA
4b 05/02/19 AV
4c 11/01/19 PRESS.
PANEL

DRAWN BY:
TMB

CHECKED BY:
JPC

FILE NAME:
LV.dwg

DRAWING #:
LV-9

ORIGINAL SHEET SIZE: 24"x 36"

OF DWGS IN SET:
SHEET 9 OF 11

