

1 CONSOLIDATED FIRE ALARM RISER DIAGRAM
FA501 SCALE: NOT TO SCALE

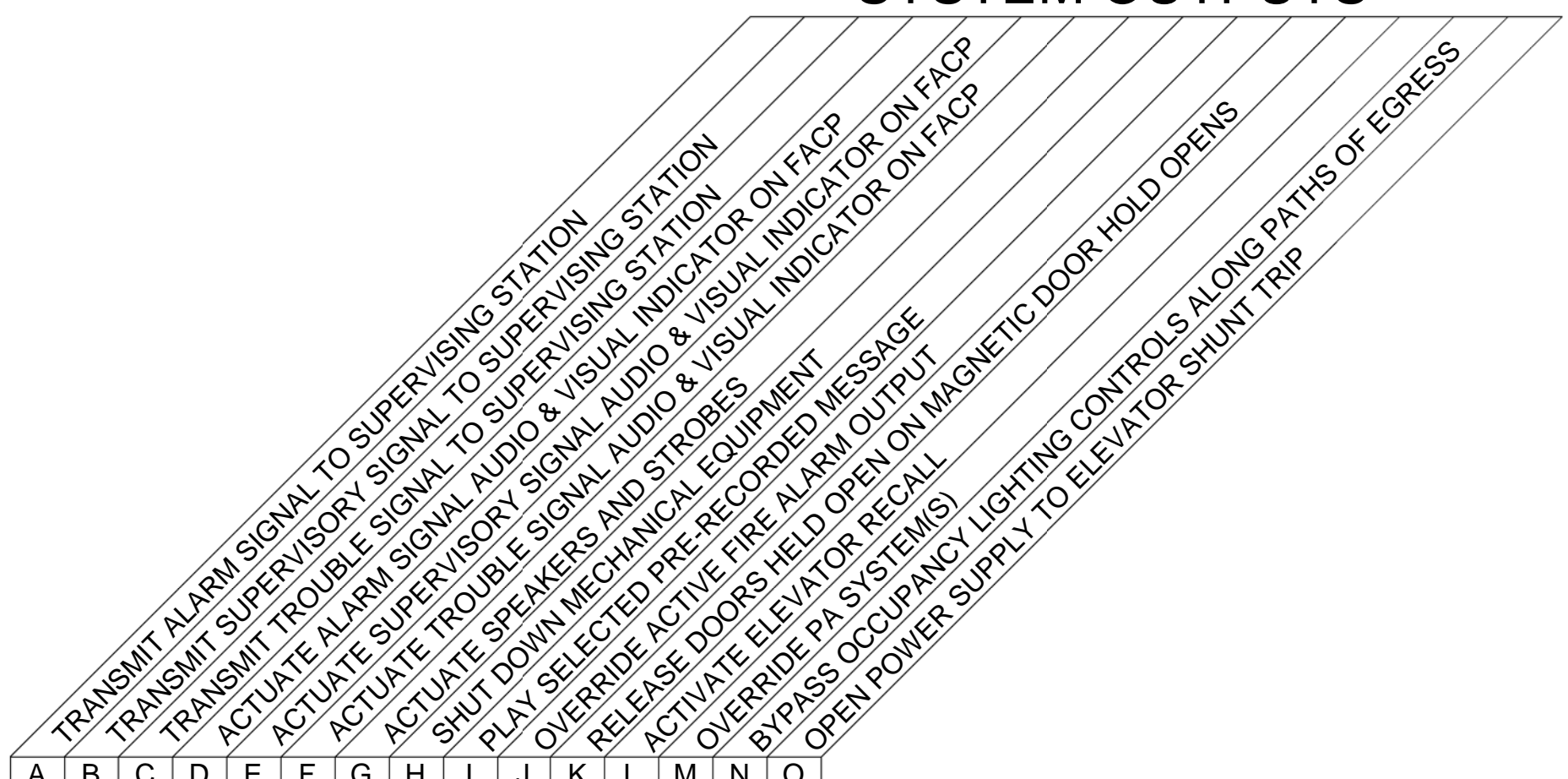
DRAWING NOTES

- REFER TO SHEET E-001 FOR SYMBOLS, GENERAL NOTES AND ABBREVIATIONS.
- INITIATING CIRCUITS AND NOTIFICATION CIRCUITS SHALL NOT BE LOADED MORE THAN 75% OF THEIR RATED CAPACITY. THE FIRE ALARM SYSTEM INSTALLING CONTRACTOR SHALL VERIFY COMPLIANCE WITH THIS REQUIREMENT AND SHALL FURNISH AND INSTALL ADDITIONAL CIRCUITS AND EXTENDER PANELS TO COMPLY. EACH EXTENDER PANEL SHALL HAVE A SMOKE DETECTOR PROVIDED AT THE CEILING ABOVE THE PANEL. EXTENDER PANELS SHALL BE LOCATED IN UTILITY ROOMS.
- FIRE ALARM RISER DIAGRAM IS SHOWN FOR REFERENCE ONLY. DEVICE LOCATIONS AND QUANTITIES SHALL BE AS SHOWN ON THE SHOP DRAWINGS. ADDITIONAL DEVICES BEYOND THOSE SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST TO MEET THE REQUIREMENTS OF NFPA 101, NFPA 13, NFPA 72, AND CITY OF PORTLAND FIRE DEPARTMENT RULES AND REGULATIONS.

DRAWING KEYNOTES

- PROVIDE WATERFLOW SWITCH WITH DUAL CONTACTS. ONE FOR SHUNT TRIPPING OF ELEVATOR AND THE OTHER TO INTERFACE WITH THE FIRE ALARM CONTROL PANEL. THE WATERFLOW SWITCH SHALL BE WITHOUT TIME DELAY.
- PROVIDE NUMBER OF CIRCUITS REQUIRED FOR THE LOAD.
- PROVIDE QUANTITY OF DEVICES AND CIRCUITS SHOWN ON SHOP DRAWINGS.
- PROGRAM ADDRESSABLE INTERFACE DEVICE AND PROGRAMMING FOR CONTROL OF PA SYSTEMS.
- PROVIDE ADDRESSABLE INTERFACE DEVICE AND PROGRAMMING FOR INTERCONNECTION WITH KITCHEN RANGE HOOD SUPPRESSION SYSTEM.
- PROVIDE ADDRESSABLE INTERFACE DEVICE AND PROGRAMMING FOR CONTROL OF LIGHTING CONTROLS BYPASS RELAY.
- FOR ELEVATOR SHUTDOWN PER ASME A17.1-2013.
- PROVIDE TAMPER ALARM FOR KNOX BOX.
- CONNECT TO SHUNT TRIP BREAKER IN PANELBOARD K1.
- MONITOR SHUNT TRIP VOLTAGE SUPPLY.

SYSTEM OUTPUTS



SYSTEM INPUTS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1 MANUAL PULL STATIONS															
2 AREA SMOKE DETECTORS															
3 DUCT SMOKE DETECTORS															
4 AIM - SPRINKLER WATERFLOW															
5 AIM - SPRINKLER WATERFLOW ELEVATOR															
6 AIM - SPRINKLER CONTROL VALVES															
7 AIM - TEMPERATURE SUPERVISORY SWITCH															
8 MANUAL ACTIVATION OF EVACUATE MESSAGE															
9 CARBON MONOXIDE DETECTORS															
10 LIVE MESSAGE AT FACP PANEL															
11 FIRE ALARM AC POWER FAILURE															
12 FIRE ALARM SYSTEM LOW BATTERY															
13 FIRE ALARM OPEN CIRCUIT															
14 FIRE ALARM GROUND FAULT															
15 NOTIFICATION APPLIANCE CIRCUIT SHORT															
16 HEAT DETECTOR ELEVATOR MACHINE ROOM AND TOP OF SHAFT															
17 AMPLIFIER TROUBLE															
18 AIM KITCHEN RANGE HOOD ACTIVATION															
19 AIM-VOLTAGE MONITOR RELAY															
20 ELEVATOR LOBBY SMOKE DETECTORS															
21 AIM DOOR RELEASE SMOKE DETECTORS															

2 INPUT/OUTPUT MATRIX
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		<p>STATE OF MAINE PUBLIC SCHOOL PROJECT</p> <p>TITLE: PORTLAND PUBLIC SCHOOLS NEW FRED P. HALL ELEMENTARY SCHOOL LOCATION: 23 ORONO ROAD, PORTLAND, ME</p> <p>TITLE THIS DWG: FIRE ALARM RISER DIAGRAM AND MATRIX</p>
<p>DRAWN BY: BPD CHECK BY: DCL</p>	<p>DATE: 03/17/17</p>	<p>FA501</p> <p>312 OF 312</p>