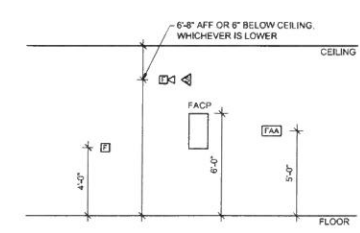


N1	--	N5	--
NTS	-	NTS	-

FIRE ALARM SEQUENCE OF OPERATIONS		SYSTEM OUTPUTS											
SYSTEM INPUTS		ACTIVATE COMMON ALARM SIGNAL	IDENTIFY ALARM AT FIRE ALARM CONTROL PANEL	IDENTIFY ALARM AT FIRE ALARM ANNUNCIATOR	IDENTIFY INITIATION DEVICE/ZONE IN ALARM AT FIRE ALARM CONTROL PANEL	IDENTIFY INITIATION DEVICE/ZONE IN ALARM AT FIRE ALARM ANNUNCIATOR	TRANSMIT FIRE ALARM TO REMOTE ALARM RECEIVING STATION	RELEASE DOORS HELD OPEN BY MAGNETIC DOOR HOLDERS	RECORD EVENTS IN FIRE ALARM CONTROL PANEL MEMORY	TRANSMIT SUPERVISORY SIGNAL TO REMOTE ALARM RECEIVING STATION	RECALL ASSOCIATED ELEVATOR TO DESIGNATED RECALL FLOOR (PRIMARY OR ALTERNATE)	SHUNT TRIP ASSOCIATED ELEVATOR (DISCONNECT ALL AC POWER)	SHUT DOWN ASSOCIATED EQUIPMENT
MANUAL FIRE ALARM PULL STATIONS		X	X	X	X	X	X	X	X				
HEAT DETECTORS - ELEVATOR MACHINE ROOMS		X	X	X	X	X	X	X	X				X
HEAT DETECTORS (OTHER)		X	X	X	X	X	X	X	X				
SPOT SMOKE DETECTORS - ELEVATOR MACHINE ROOMS		X	X	X	X	X	X	X	X			X	
SPOT SMOKE DETECTORS @ MAGNETIC DOOR HOLDER(S)		X	X	X	X	X	X	X	X				
SPRINKLER WATERFLOW		X	X	X	X	X	X	X	X				
SPRINKLER CONTROL VALVE					X	X			X	X			
ELEVATOR SHUNT TRIP					X	X			X	X			X
DISABLED DEVICE					X	X			X	X			
LOST COMMUNICATION WITH AUXILIARY PANEL					X	X			X	X			
DUCT SMOKE DETECTORS					X	X			X	X			X
OPEN CIRCUIT					X	X			X	X			
SHORT CIRCUIT					X	X			X	X			
GROUND FAULT					X	X			X	X			
LOST COMMUNICATION WITH PERIPHERAL DEVICE					X	X			X	X			
FIRE ALARM AC POWER FAILURE					X	X			X	X			
ABNORMAL AC VOLTAGE AT FIRE ALARM CONTROL PANEL					X	X			X	X			
FIRE ALARM SYSTEM LOW BATTERY					X	X			X	X			
ABNORMAL SWITCH POSITION AT FIRE ALARM CONTROL PANEL					X	X			X	X			
ABNORMAL SWITCH POSITION AT FIRE ALARM ANNUNCIATOR					X	X			X	X			

J1	--	J5	--
NTS	-	NTS	-

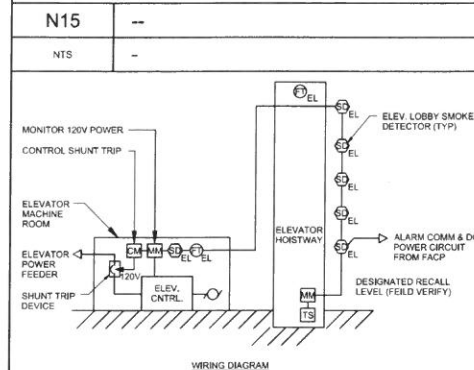
J8	FIRE ALARM SEQUENCE OF OPERATIONS
NTS	-



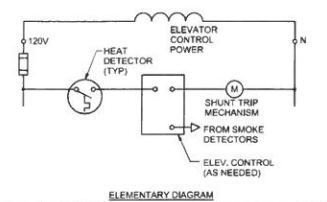
NOTES:
1. DETAIL APPLIES TO NEWLY INSTALLED DEVICES ONLY.

E1	--	E5	--
NTS	-	NTS	-

E8	--	E12	MOUNTING HEIGHT DETAIL
NTS	-	NTS	-



- NOTES:
1. MAINTAIN EXISTING SHUNT TRIP DEVICE.
 2. REFER TO NFPA 72-2013 SECTION 21.3 FOR SMOKE DETECTOR ELEVATOR CONTROL CIRCUIT REQUIREMENTS. ACTIVATION OF SMOKE DETECTORS TO CAUSE ELEVATOR CONTROL TO RECALL CAR TO DESIGNATED FLOOR AND OPEN DOORS.
 3. FIRE ALARM SYSTEM SHALL BE ADDRESSABLE TYPE. PROVIDE ANY NECESSARY INTERFACE RELAYS BETWEEN 120V AND FIRE ALARM COMPONENTS. LOBBY AND MACHINE DETECTORS MAY BE 4-WIRE TYPE HARDWIRED TO ELEV. CNTRL OR USE ADDRESSABLE CONTROL MODULES TO PROVIDE CONTROL OUTPUTS TO ELEVATOR MACHINE.
 4. HEAT DETECTOR ALARM TEMPERATURE TO BE MINIMUM 10°F LOWER THAN SPRINKLER HEAD. PER NFPA 72-2013, MOUNT HEAT DETECTOR WITHIN 2'-0\"/>
 - 5. REFER TO NFPA 72-2013 SECTION 21.4 FOR ELEVATOR SHUTDOWN SEQUENCE. ACTIVATION OF ANY HEAT DETECTOR TO ACTIVATE SHUNT TRIP TO POWER DOWN ELEVATOR EQUIPMENT AND ELEVATOR BATTERY POWER MONITOR 120V AND INITIATE FIRE ALARM TROUBLE IN EVENT OF LOSS OF SHUNT TRIP POWER.



- GENERAL PROJECT NOTES:
1. ALL DEVICES SHALL BE NEW UNLESS OTHERWISE NOTED.
 2. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE, AND IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING, BUT NOT LIMITED TO NFPA 70, 72, 90A, AND DIRECTION OF AUTHORITY HAVING JURISDICTION.
 3. EXISTING AND NEW FIRE ALARM DEVICES ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR SHALL REVIEW THE BUILDING, AND FIELD VERIFY, TO DETERMINE EXACT MOUNTING LOCATIONS FOR FIRE ALARM DEVICES AND EQUIPMENT. CARE SHALL BE TAKEN TO AVOID EXISTING ELECTRICAL, MECHANICAL, SPRINKLER AND OTHER CEILING AND WALL MOUNTED DEVICES AND EQUIPMENT.
 4. ALL PENETRATION THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A U.L. LISTED AND APPROVED FIRE SEALANT MATERIAL, TO MAINTAIN THE RATING OF THE SEPARATION.

0	ISSUED FOR BID	05.04.16
REV.	DESCRIPTION	DATE
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0	ISSUED FOR BID	05.04.16
REV.	DESCRIPTION	DATE

ISSUED FOR BID
05.04.16

SEAL OF THE STATE OF MAINE
STEPHEN J. WELLS
REGISTERED PROFESSIONAL ENGINEER
No. 10272
05.04.16

WBRC
ARCHITECTS ENGINEERS
1010 WINDYBROOK CIRCLE
BANGOR, MAINE 04401-2411
PORTLAND, MAINE 04106-3411
Sarasota, FL 34237-1411

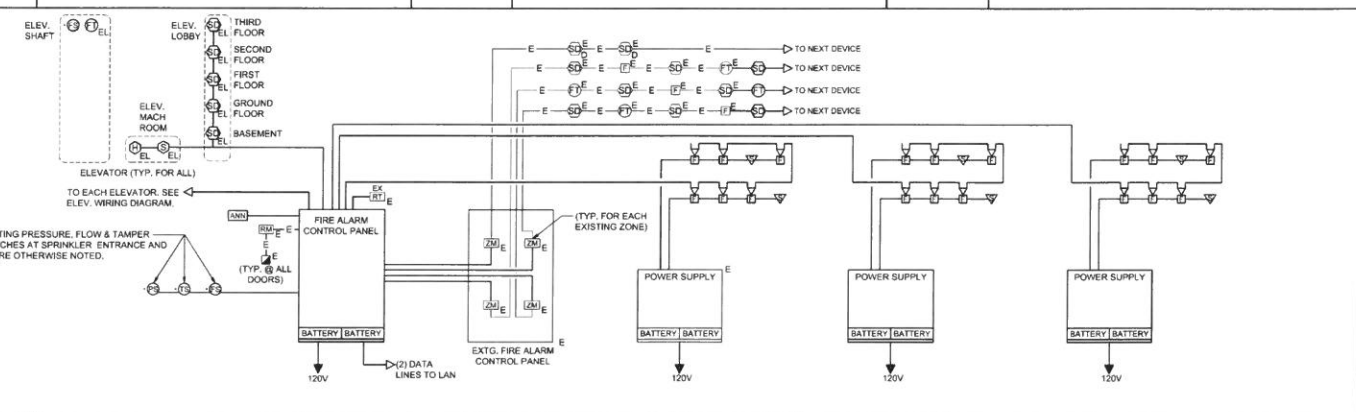
PORTLAND HIGH SCHOOL
FIRE ALARM UPGRADES - PHASE 1
PROJECT: PORTLAND, ME

ELECTRICAL DETAILS

SHEET TITLE: 404100 - FA501
WBRC CAD FILE: 404100 - FA501
PROJECT No.: 404100 GRAPHIC SCALE: 1" = 12'
SCALE: AS NOTED
PROJECT MANAGER: S.J.L. SHEET No.:
DRAWN BY: KEM.
CHECKED BY: S.J.L. FA501

A1	--	A5	--
NTS	-	NTS	-

A8	FIRE ALARM RISER DIAGRAM
NTS	-



5/2/2016 1:05 PM 11:02 PROJECTS - WBRCE001 - 100140100 PORTLAND HIGH SCHOOL FIRE ALARM SYSTEM 2 DESIGN/DESIGN-BUILD/PORTLAND SCHOOL EXISTING DRAWINGS/SHEETS/FA01 ELECTRICAL DETAILS/FA501 ELECTRICAL DETAILS/FA501