Reviewed for Code Compliance
Fire Prevention Division
Approved with Conditions
Date: 07/30/15

DEVICE ELEVATION DETAIL
NOT TO SCALE

SYMBOL LEGEND			
ITEM NO.	SYMBOL	QTY. TOTAL	DESCRIPTION
1		135	STANDARD BASE (DB–11) – OCTAGON BOX
2	H	1	HEAT DETECTOR – CONVENTIONAL (DT–200F) – HTRI–M/OCTAGON BOX
3	RR	1	HEAT DETECTOR (HI921) – DB–11/OCTAGON BOX
4	RR	17	HEAT DETECTOR (HI921) – DB–11/OCTAGON BOX
5	I	5	LINE ISOLATOR (HLIM) – 4" SQUARE
6	M	1	MONITOR MODULE (HTRI–S) – 4" SQUARE
7	MM	1	MINI MONITOR MODULE (HTRI–M)
8	F	13	PULL STATION (MSM–KD/HTRI–M) – SINGLE GANG
9	RM	4	INPUT/OUTPUT MODULE (HTRI–R) – 4" SQUARE
10		9	DUCT DETECTOR HOUSING (FDBZ492–HR)
11	?	9	DUCT DETECTOR (HFP–11) – FDBZ492–HR
12	?	116	SMOKE DETECTOR (OH921) – DB–11/OCTAGON BOX
13	110CD	3	HORN/STROBE (ZH–MC–R) – 4" SQUARE OR SINGLE GANG
14	15CD	13	HORN/STROBE (ZH–MC–R) – 4" SQUARE OR SINGLE GANG
15	30CD	3	HORN/STROBE (ZH–MC–R) – 4" SQUARE OR SINGLE GANG
16	75CD	7	HORN/STROBE (ZH–MC–R) – 4" SQUARE OR SINGLE GANG
17	110CD	1	STROBE (ZR–MC–R) – 4" SQUARE OR SINGLE GANG
18	15CD	17	STROBE (ZR–MC–R) – 4" SQUARE OR SINGLE GANG
19	30CD	3	STROBE (ZR–MC–R) – 4" SQUARE OR SINGLE GANG
20	75CD	1	STROBE (ZR–MC–R) – 4" SQUARE OR SINGLE GANG
21	ANN	1	ANNUNCIATOR (FT–2015)
22	FACP	1	FIRE ALARM CONTROL PANEL (FC922)
23	PAD	1	PAD PANEL (PAD–4)

FIRE ALARM RISER DETAIL
SCALE: NTS

DEVICE WIRING DETAILS
SCALE: NTS

FC 924 Battery Calculations			
Qty	Module/Device	Standby Current (A)	Alarm Current (A)
1	Standard Operating Unit	0.12500	0.12500
1	252 Point Periphery Board	0.11500	0.11500
1	NAC Expander	0.02500	0.02500
1	RS–485 Module	0.05500	0.05500
1	Remote Annunciator	0.03400	0.03400
1	DACT Module	0.02500	0.02500
122	OH921 Smoke Detector	0.03416	0.09416
11	OOH941 Smoke Detector	0.00748	0.00748
18	H1921 Heat Detector	0.00504	0.00504
3	FDCIO422 I/O Module	0.00300	0.00300
15	MSM-KD Manual Station	0.02100	0.02100
4	HTRI Input Module	0.00560	0.00560
1	HCP Control Point Module	0.00140	0.00140
	NAC Load	0.00000	1.54600
	Total Current	0.45668	2.06268
	Standby Time (24 Hours)	10.96032	
	Alarm Time (5 Minutes)		0.17120244
	A/hrs Required (No Reserve)		11.13152244
	Battery Reserve (125%)		13.91440305
	Battery Size Provided		**18 A/hr**

PAD-4 Battery Calculations			
Qty	Module/Device	Standby Current (A)	Alarm Current (A)
1	Standard Operating Unit	0.06000	0.06000
	NAC #1	0.00000	1.08500
	NAC#2	0.00000	0.97800
	NAC#3	0.00000	0.79600
	NAC#4	0.00000	0.86600
	Total Current	0.06	3.785
	Standby Time (24 Hours)	1.44	
	Alarm Time (5 Minutes)		0.314155
	A/hrs Required (No Reserve)		1.754155
	Battery Reserve (125%)		2.19269375
	Battery Size Provided		**7 A/hr**

	Activate the Alarm LED and Buzzer on the FACP & Remote Annunciator(s)	Activate the Supervisory LED and Buzzer on the FACP & Remote Annunciator(s)	Activate the Trouble LED and Buzzer on the FACP & Remote Annunciator(s)	Display Custom Message and Address on FACP & Remote Annunciator(s) Display	Activate Building Notification Devices	Transmit Alarm Signal to Central Station	Transmit Supervisory Signal to Central Station	Transmit Trouble Signal to Central Station	
Smoke Detector (Ceiling)	XX			XX	XX	XX			
Smoke Detector (Sub Floor)	XX			XX	XX	XX			
Heat Detector	XX			XX	XX	XX			
Manual Pull Station	XX			XX	XX	XX			
Duct Smoke Detector	XX			XX	XX	XX			
Short Circuit			XX	XX				XX	
Ground Fault			XX	XX				XX	
Open Circuit			XX	XX				XX	
Loss of Primary Power			XX	XX				XX	
Loss of Secondary Power			XX	XX				XX	

OPERATIONS MATRIX

N
SCALE: 2' 8' 1' 4' 16'

GENERAL NOTES	DATE	REVISIONS	REQUIRED APPROVALS
			OWNER
			STATE FIRE MARSHAL
			LOCAL FIRE DEPARTMENT
			DRAWN BY CRM
			CHECKED BY BWB
			CONTRACTOR LICENSE #

WCSH6
ONE CONGRESS SQUARE
PORTLAND, ME

CONTRACT WITH: Pacific & Southern LLC DBA WCSH6

EASTERN FIRE SERVICES, INC.
AUBURN/LEWISTON INDUSTRIAL AIRPARK, AUBURN, MAINE 04210

FIRE ALARM SYSTEM
RISER & DETAILS
DWG. NO. FA-2
JOB NUMBER
SCALE AS SHOWN
DATE 7-1-15