

10/17/2014 10:56:22 AM - P:\IER11740\200-11740-10003\CAD\SHEETFILES\TREATMENT PLANT\WTP-E-0804 FIRE ALARM RISER DIAGRAM.DWG - CALZARETTA, TIMOTHY

FIRE ALARM SYMBOLS LEGEND			
SYMBOL	DESCRIPTION	MODEL#	BACKBOX
F	MANUAL PULL STATION	SIMPLEX 4099-9003	SINGLE GANG BOX 2 1/2" DEEP
P	SMOKE SENSOR / BASE	SIMPLEX 4098-9714 SIMPLEX 4098-9792 BASE	4" OCTAGONAL BOX 1 1/2" DEEP
D	DUCT SMOKE SENSOR	SIMPLEX 4098-9756	MOUNT TO DUCTWORK
T	REMOTE TEST STATION W/ LED AND KEY SWITCH	SIMPLEX 2098-9806	SINGLE GANG BOX 2 1/2" DEEP
M/C	ADDRESSABLE CEILING MOUNT MULTI-CANDELA S/V WHITE # =CANDELA RATING, #W = SPEAKER TAP	SIMPLEX 4906-9254	4" SQUARE BOX 1 1/2" DEEP W/ 1 1/2" EXTENSION RING
M/W	ADDRESSABLE WALL MOUNT MULTI-CANDELA S/V WHITE # =CANDELA RATING, #W = SPEAKER TAP	SIMPLEX 4906-9253	4" SQUARE BOX 1 1/2" DEEP W/ 1 1/2" EXTENSION RING
EOL #K	END-OF-LINE RESISTOR 3.3K (EOL) END-OF-LINE RESISTOR 4.7K (EOL) END-OF-LINE RESISTOR 6.8K (EOL) END-OF-LINE RESISTOR 10K (EOL)	SIMPLEX 4081-9002 SIMPLEX 4081-9003 SIMPLEX 4081-9004 SIMPLEX 4081-9008	SUPPLIED BY OTHERS
MS	TAMPER SWITCH	SUPPLIED BY OTHERS	INSTALLED BY MECHANICAL CONTRACTOR
WF	WATERFLOW SWITCH	SUPPLIED BY OTHERS	INSTALLED BY MECHANICAL CONTRACTOR
AM	INDIVIDUAL ADDRESSABLE MODULE	SIMPLEX 4090-9001	SINGLE GANG BOX 2 1/2" DEEP WITH COVER
PAM	CONTROL RELAY MODULE	SIMPLEX PAM	SINGLE GANG BOX 2 1/2" DEEP WITH COVER

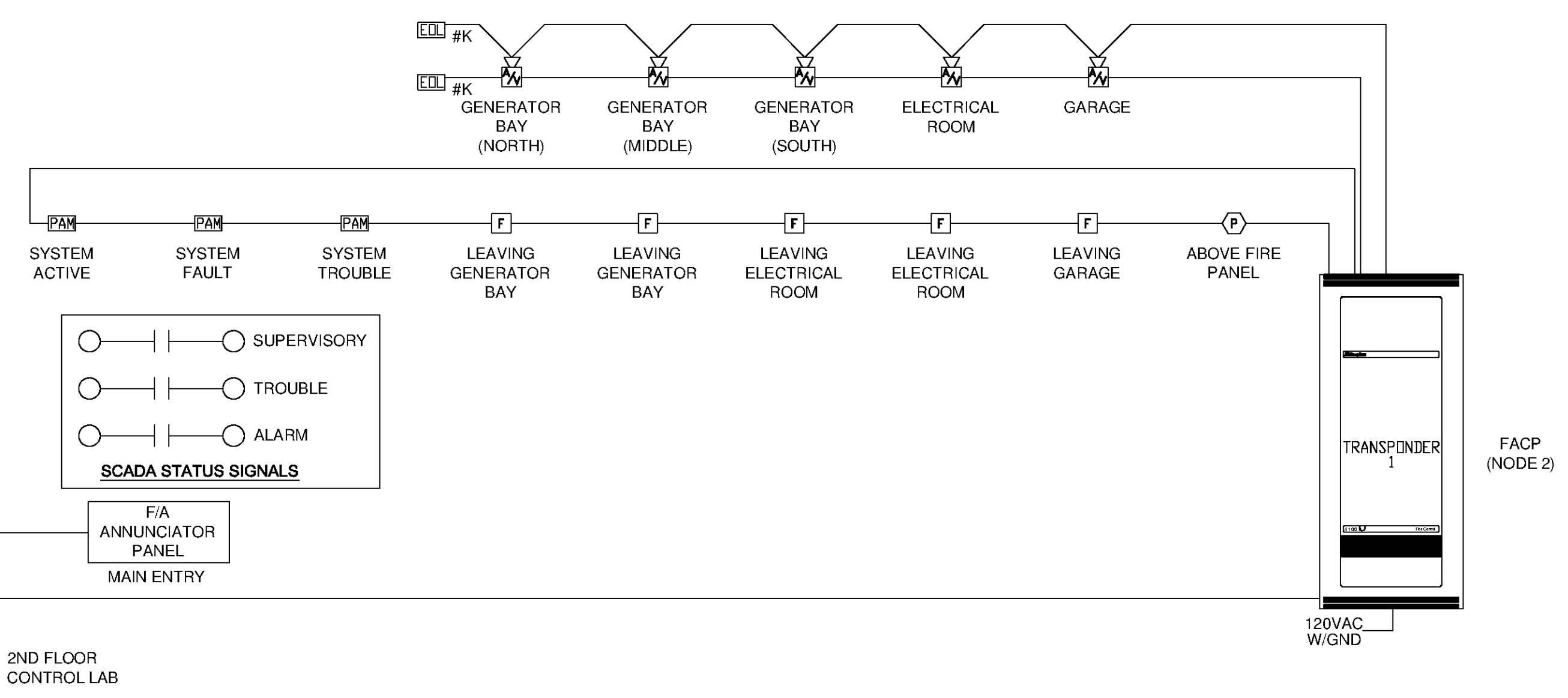
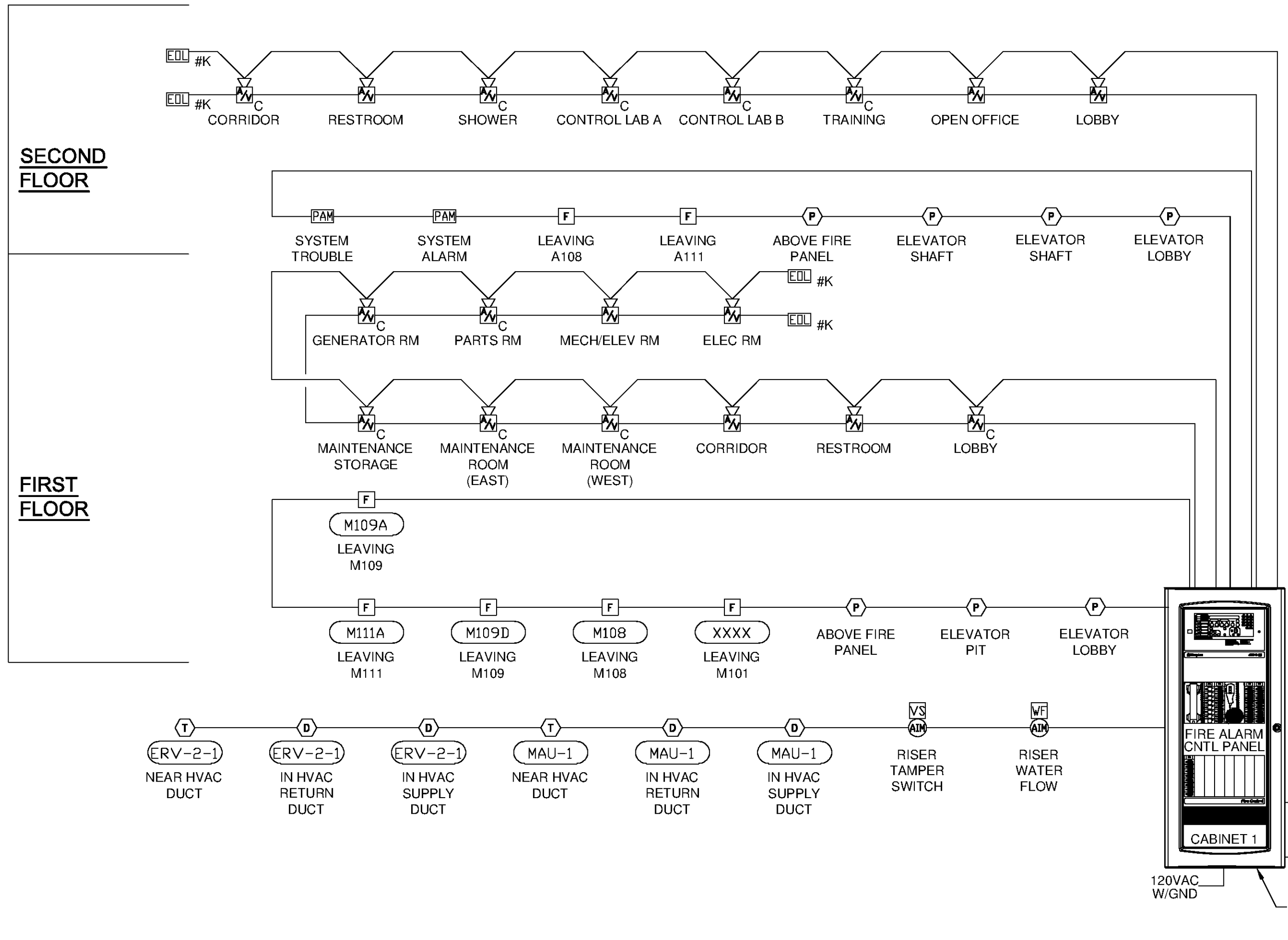
1. THIS SHEET IS FOR REFERENCE ONLY. OWNER WILL CONTRACT FIRE ALARM CONTRACTOR DIRECT. THE CONTRACTOR FOR THIS PROJECT WILL RUN ALL RACEWAY AND DEVICE BOXES, PROVIDE 120VOLT POWER AND PROVIDE PULL STRINGS. PROVIDE COORDINATION AND MATCH FIRE ALARM CONTRACTORS PLANS.

	SYSTEM INPUTS														SYSTEM OUTPUTS																								
	A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q	R	S	T	FACP Annunciation		Notification				Monitoring													
1 Manual Pull Station - Facility	X	X					X	1												Actuate Common Alarm Signal Indicator	Actuate Audible Alarm Signal	Actuate Common Supervisory Signal Indicator	Actuate Audible Supervisory Signal	Actuate Common Trouble Signal Indicator	Actuate Audible Common Trouble Signal	Display Change of Status	Actuate Evacuation Fire Alarm Signals (Speaker/Strobes)	NOT USED	NOT USED	NOT USED	Silence Signal (Speaker/Horn/Strobes)	Shut Down Air Handling Units	Transmit Fire Alarm Signal to Remote Monitoring/SCADA	Not Used	Transmit Trouble Signal to Remote Monitoring/SCADA	Transmit Supervisory Signal to Remote Monitoring/SCADA	NOT USED	Transmit Waterflow to Remote Monitoring	
2 Smoke Sensors - Facility	X	X					X	1						X	X																								
3 NOT USED																																							
4 NOT USED									X										X																				
5 NOT USED																																							
6 Sprinkler Waterflow	X	X					X	1						X					X																				
7 Not Used																																							
8 Sprinkler Control Valve				X	X			X											X																				
9 FACP AC Power Failure							X	X	X										2																				
10 FACP Low Battery							X	X	X										X																				
11 Open Circuit							X	X	X										X																				
12 Ground Fault							X	X	X										X																				
13 Notification Appliance Circuit Short							X	X	X										X																				
14 Alarm Signal Silence									X																														

1) NOTE: Audible Evacuation Signal shall be Temporal Code per NFPA 72

**SEQUENCE OF OPERATIONS MATRIX**

NOTES: THE FIRE ALARM SIGNAL WILL OPERATE ACCORDING TO NFPA 72 REQUIREMENTS. IF THE FIRE ALARM SYSTEM IS ACTIVATED AND A MNS MESSAGE IS SIMULTANEOUSLY ACTIVATED, THE FIRE ALARM SIGNAL WILL BE EXTINGUISHED ALONG WITH STROBES, AND THE MNS MESSAGE AND STROBES WILL BE ACTIVATED FOR A MAXIMUM OF 1 MINUTE. AFTER THAT TIME, THE FIRE ALARM SIGNALS WILL BE REINSTATED AND MNS SIGNALS EXTINGUISHED. THIS FUNCTION IS REQUIRED TO BE AUTOMATIC AND THEREFORE, THE MANUAL OVERRIDE SWITCH OUTLINED IN UFC 4-021-01 IS NOT REQUIRED.



OPERATIONS/CHEMICAL FEED/FILTER BUILDING COMPLEX

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**BID SET**

BY

DATE

MARK

DESCRIPTION

HUNTSVILLE UTILITIES

SOUTHEAST WATER TREATMENT PLANT

FIRE ALARM RISER DIAGRAM

Project No.:

200-11740-10003

Designed By:

CSW

Drawn By:

CSW

Checked By:

DAB

Copyright: Tetra Tech

E-0804

Bar Measures 1 inch