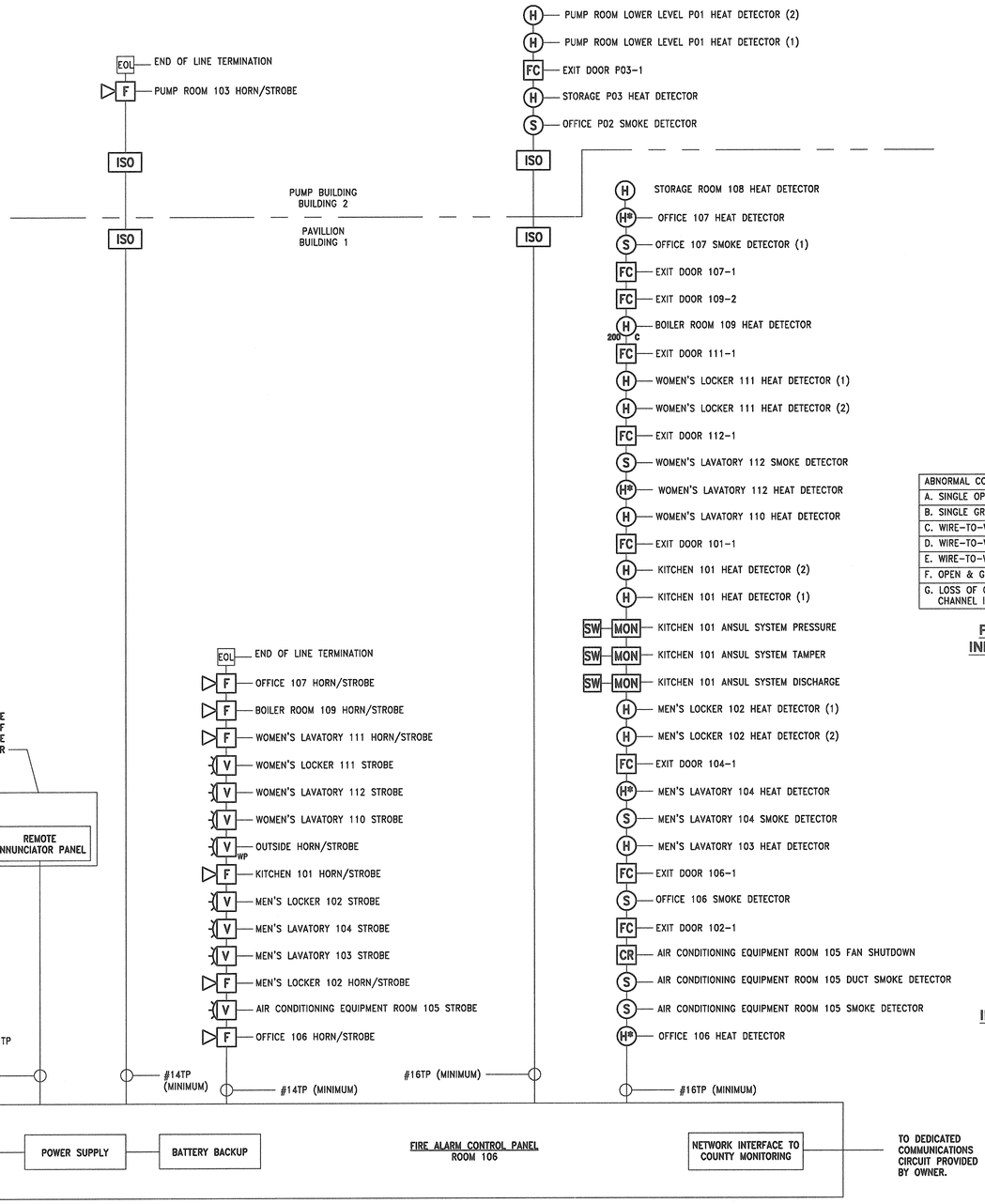

CLASS B
STYLE 4

	ALARM	TROUBLE	ALARM CAPABILITY DURING ABNORMAL CONDITIONS
ABNORMAL CONDITION			
A. SINGLE OPEN		X	
B. SINGLE GROUND		X	R
C. WIRE-TO-WIRE SHORT		X	
D. WIRE-TO-WIRE SHORT & OPEN		X	
E. WIRE-TO-WIRE SHORT & GROUND		X	
F. OPEN & GROUND		X	
G. LOSS OF CARRIER(IF USED)/ CHANNEL INTERFACE		X	

PERFORMANCE OF INITIATING LINE LOOP

CLASS B
STYLE Y

	TROUBLE INDICATION AT PROTECTED PREMISES	ALARM CAPABILITY DURING ABNORMAL CONDITIONS
ABNORMAL CONDITION	5	6
SINGLE OPEN	X	
SINGLE GROUND	X	X
WIRE-TO-WIRE SHORT	X	

PERFORMANCE OF INDICATING ALARM CIRCUIT

FIRE ALARM SYSTEM RISER NOTES:

1. THIS RISER DIAGRAM IS BASED ON A SIEMENS BUILDING TECHNOLOGIES XLS-250 FIREFINDER FIRE ALARM CONTROL PANEL OR APPROVED EQUAL. IT IS A REPRESENTATION OF THE INTENDED SYSTEM FOR THIS PROJECT. SEE THE FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF FIELD EQUIPMENT. SEE THE PROJECT SPECIFICATIONS FOR PERFORMANCE AND COMPLIANCE REQUIREMENTS. QUANTITY AND SIZE OF CONDUCTORS TO BE DETERMINED BY FIRE ALARM SYSTEM SUPPLIER.
2. PROVIDE AUXILIARY FIRE ALARM SIGNAL PANEL(S) W/ BATTERY BACKUP AS REQUIRED TO SUPPORT NOTIFICATION APPLIANCE LOADS.
3. ALL WIRING REQUIREMENTS SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
4. ALL INSTALLED COMPONENTS TO FULLY COMPLY WITH APPLICABLE NFPA 72 REQUIREMENTS, LOCAL AND STATE CODES.
5. PROVIDE END OF LINE RESISTORS AS NECESSARY.
6. PROVIDE ADDRESSABLE MONITORING AND CONTROL MODULES AS RECOMMENDED BY FIRE ALARM SYSTEM SUPPLIER.
7. ALL ADDRESSABLE SLC'S SHALL BE NFPA 72 CLASS B, STYLE 4.
8. ALL NOTIFICATION NAC'S SHALL BE NFPA 72 CLASS B, STYLE Y.
9. STROBE CANDELAS MUST BE SIZED PER NFPA 72 REQUIREMENTS.
10. AUDIBLE NOTIFICATION DEVICES SHALL PROVIDE SOUND LEVEL AT LEAST 15dB ABOVE AMBIENT NOISE LEVELS.
11. ALL PANEL BATTERY BACKUP SHALL BE SIZED AT 150% OF 24HR STANDBY PLUS 5 MINUTES OF ALARM.
12. A COMPLETE SET OF FIRE ALARM PRODUCT CUTSHEETS, FIRE ALARM SHOP DRAWINGS, AND BATTERY/ VOLTAGE/ LOAD CALCULATIONS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
13. CONTRACTOR SHALL ENGAGE THE SERVICES OF THE COUNTY FIRE ALARM VENDOR FOR PROGRAMMING AND CONNECTION TO THE COUNTY WIDE NETWORK.
14. SEE SHEET FA-100 FOR EQUIPMENT LEGEND.

SYSTEM OUTPUTS

SYSTEM INPUTS

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
		CONTROL PANEL ANNUNCIATION				NOTIFICATION								MISC.				
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE COMMON SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE COMMON TROUBLE SIGNAL	ACTUATE PAVILLION ALARM SIGNAL INDICATOR	ACTUATE PUMP BLDG ALARM SIGNAL INDICATOR	ACTUATE PAVILLION EVACUATION SIGNALS	ACTUATE PUMP BLDG EVACUATION SIGNALS	DISPLAY/PRINT CHANGE OF STATUS	TRANSMIT FIRE SIGNAL TO NETWORK COMMAND CENTER	TRANSMIT SUPERVISORY SIGNAL TO NETWORK COMMAND CENTER	TRANSMIT TROUBLE SIGNAL TO NETWORK COMMAND CENTER	ACTUATE AC UNIT SHUT DOWN	ACTUATE EXTERIOR STROBE AT FIRE DEPT. RESPONSE POINT	
1	ANY MANUAL PULL BOX PAVILLION	●	●					●		●		●	●				●	1
2	ANY HEAT DETECTOR PAVILLION	●	●					●		●		●	●				●	2
3	ANY SMOKE DETECTOR PAVILLION	●	●					●		●		●	●			●	●	3
4	DUCT SMOKE DETECTOR AC SYSTEM	●	●					●		●		●	●			●	●	4
5	ANSUL SYSTEM ACTIVE (PSA)	●	●					●		●		●	●				●	5
6	ANSUL SYSTEM DISCHARGE	●	●					●		●		●	●				●	6
7	ANSUL SYSTEM TAMPER SWITCH			●	●									●				7
8	ANY MANUAL PULL BOX PUMP BLDG	●	●						●		●	●	●				●	8
9	ANY HEAT DETECTOR PUMP BLDG	●	●						●		●	●	●				●	9
10	ANY SMOKE DETECTOR PUMP BLDG	●	●						●		●	●	●				●	10
11	FIRE PANEL AC POWER LOSS					●	●								●			11
12	LOW BATTERY VOLTAGE					●	●								●			12
13	OPEN CIRCUIT					●	●								●			13
14	GROUND FAULT					●	●								●			14
15	NOTIFICATION APPLIANCE SHORT					●	●								●			15
16	COMMUNICATION NETWORK FAILURE					●	●								●			16

RAHWAY PARK POOL
FIRE ALARM SYSTEM RISER DIAGRAM

APPROVED:
Richard A. Alaimo
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 13195

REVISIONS	DATE	BY

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FIRE PROTECTION IMPROVEMENTS
VARIOUS PARK MAINTENANCE BUILDINGS
RAHWAY RIVER PARK
POOL PAVILLION
FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NONE

CLIENT: COUNTY OF UNION
PROJECT LOCATION: RAHWAY, SCOTCH PLAINS, PLAINFIELD, UNION COUNTY, NEW JERSEY
RAA PROJECT NO.: A-0530-0017-003
PROJECT NO.: 2010-026

DATE: APR. 2013
DESIGNED BY: SDR/PFM
DRAWN BY: SDR/PFM
CHECKED BY:
DEPT. HEAD:

SHEET FA-102
FILE NO.: