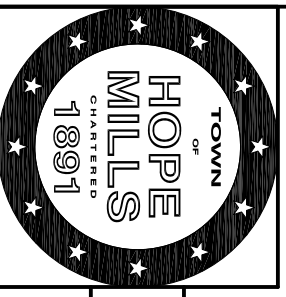


**FIRE ALARM SYSTEM  
INPUT/OUTPUT MATRIX**

**SYSTEM OUTPUTS**

SYSTEM INPUTS	SYSTEM OUTPUTS																									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	
1 FIRE ALARM SYSTEM AC POWER FAILURE																										
2 FIRE ALARM SYSTEM LOW BATTERY																										
3 OPEN CIRCUIT																										
4 GROUND FAULT																										
5 NOTIFICATION APPLIANCE CIRCUIT SHORT																										
6 BUILDING MANUAL PULL STATIONS																										
7 CORRIDOR SMOKE DETECTORS																										
8 AREA SMOKE DETECTORS																										
9 HVAC AIR DUCT SMOKE DETECTORS																										
10 HOOD OR ROOM FIRE SUPPRESSION SYSTEM ALARM																										
11 SPRINKLER TAMPER SWITCH																										
12 SPRINKLER WATER FLOW IN BUILDING																										
13 SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT																										
14 ELEV EQUIP RM AREA SMOKE DETECTOR																										
15 ELEV SHAFT AND ELEV EQUIP RM HEAT DETECTORS																										
16 ELEV LOBBY SMOKE DETECTORS - UPPER FLOORS																										
17 ELEV LOBBY SMOKE DETECTOR - RECALL FLOOR																										
18 ELEV CONTROLLER POWER SHUNT TRIP STATUS																										
19 FIRE PUMP POWER FAILURE/PHASE REVERSAL																										
20 FIRE PUMP RUNNING																										
21 FIRE PUMP SYSTEM NOT IN AUTOMATIC																										
22 LEGALLY REQUIRED GENERATOR SYSTEM LOW FUEL																										
23 LEGALLY REQUIRED GENERATOR NOT IN AUTOMATIC																										
24 AREA OF REFUGE TWO-WAY COMMUNICATIONS STATUS																										
25 -																										
26 -																										
27 -																										



**MATRIX - SPRINKLERED HIGH RISE OFFICE BUILDING**

**FIRE PROTECTION**

Detail FP-31E

Town of Hope Mills, North Carolina

February 28, 2015 Original