




**THIRD FLOOR FIRE ALARM PLAN**  
 SCALE: 1/4"=1'-0"

FCP Battery Calculation				4/10/2013
PROJECT NAME: 111 COMMERCIAL STREET				
Required Standby Time: 24 Hours				
Required Alarm Time: 5 Minutes				
Regulated Load in Standby				
Device Type	Number of Devices	Current (Amps)		Total Current (Amps)
MS-9200UDLS - Main Circuit Board	1	X 0.13700	=	0.13700
ANN-80 Annunciator	1	X 0.01500	=	0.01500
SD355 Smoke Detectors	12	X 0.00030	=	0.00360
H355 Heat Detectors	1	X 0.00030	=	0.00030
MMF-300 Monitor Module	3	X 0.00040	=	0.00120
CRF-300 Relay Module	4	X 0.00027	=	0.00108
BG-12LX Pull Stations	18	X 0.00023	=	0.00414
TOTAL STANDBY LOAD				0.16232
Regulated Load in ALARM				
Device Type	Number of Devices	Current (Amps)		Total Current (Amps)
MS-9200UDLS - Main Circuit Board	1	X 0.36000	=	0.36000
ANN-80 Annunciator	1	X 0.04000	=	0.04000
Max. Alarm Draw - All Addressable Devices	1	X 0.40000	=	0.40000
TOTAL ALARM LOAD				0.80000
Battery Requirements				
Standby Load		Required Standby Time in Hours		
Current (Amps)	0.16232	X 24.00000	=	3.89568
Alarm Load		Required Alarm Time in Hours		
Current (Amps)	0.80000	X 0.08333	=	0.06667
Total Ampere Hours (before derating factor)				3.96235
Derating Factor			X 1.2	
TOTAL AMPERE HOURS REQUIRED				4.75482
BATTERIES TO BE PROVIDED (2 - 12v)				7 AH

**SHEET NOTES:**

- ◇ ADDRESSABLE MONITOR MODULE(S) PROVIDED TO MONITOR ALL WATER FLOW, PRESSURE SWITCHES, TAMPER SWITCHES AND POST INDICATING VALVES ASSOCIATED WITH THE FIRE SPRINKLER SYSTEM ON THIRD AND FOURTH FLOOR. INSTALLING CONTRACTOR SHALL FIELD VERIFY EXACT MOUNTING, CIRCUITING, AND PROGRAMMING REQUIREMENTS. FIELD VERIFY EXACT QUANTITY AND LOCATION(S).

**CUNNINGHAM**  
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**THIRD FLOOR FIRE ALARM PLAN**

DRAWN	JPB UNICAD JOB #13155
CHECKED	WAYNE B. HAWS NICET N 90496
DATE	4/8/2013
REVISION	1
SCALE	1/4"=1'-0"

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