



FIRE ALARM SYMBOL LEGEND	
[M]	MANUAL PULL STATION AT 42" AFF. TO THE BOTTOM OF THE DEVICE. REQUIRES A SINGLE-GANG 2-1/2" BOX AND 3/4" CONDUIT STUB WITH INSULATED THROAT CONNECTOR. MANUAL PULL STATION MUST BE LOCATED WITHIN 5' OF EGRESS DOOR.
[S]	CEILING SMOKE DETECTOR. REQUIRES A 4" OCTAGON BOX WITH TILE-BAR SUPPORT WHEN INSTALLED IN LAY-IN CEILING TILE. "X" - DENOTES RELAY BASE, WHICH REQUIRES A 4" OCTAGON DEEP BOX, WHERE INDICATED ON PLANS FOR FIREFIGHTER'S LAMP.
[H]	CEILING HEAT DETECTOR. REQUIRES A 4" OCTAGON BOX WITH CADDY-BAR SUPPORT WHEN INSTALLED IN LAY-IN CEILING TILE.
[D]	DUCT MOUNTED SMOKE DETECTOR. REQUIRES A 4" SQ. BOX ON DECK WITH 1/2" FLEXIBLE CONDUIT INTO DUCT DETECTOR HOUSING.
[EN]	ADDRESSABLE RELAY FOR AHU FAN SHUTDOWN. REQUIRES A SINGLE-GANG BOX ON WALL NEXT TO THE ASSOCIATED STARTER AND CONNECT USING A 2" LONG, 3/4" CHASE. ROUTE THE LOW VOLTAGE CONTROL CIRCUIT THRU THE RELAY CONDUITS FOR FAN SHUTDOWN.
[INT]	INTELLIGENT INTERFACE MODULE. W/SINGLE INPUT AND RELAY. REQUIRES A 4" SQ 2-1/8" DEEP BOX ON WALL.
[HTR]	ELEVATOR RECALL SERVICE. ELECTRICAL CONTRACTOR TO INSTALL (2) 4" SQ 2-1/8" DEEP BOXES NEXT TO EACH ELEVATOR CONTROLLER AND CONNECT USING 1/2" FLEXIBLE CONDUIT.
[HTR]	ELEVATOR SHUNT TRIP. ELECTRICAL CONTRACTOR TO INSTALL A 4" SQ 2-1/8" DEEP BOX NEXT TO THE ELEVATOR CONTROLLER AND CONNECT USING 1/2" FLEXIBLE CONDUIT.
[HTR]	INTELLIGENT INTERFACE SINGLE INPUT MODULE. REQUIRES A 4" SQ 2-1/8" DEEP BOX ON WALL.
[R]	AUXILIARY CONTROL RELAY. FSPS WILL PROVIDE SPOT RELAY W/ENCLOSURE. THE ENCLOSURE SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
[X]	WALL OR CEILING MOUNTED STROBE. WALL MOUNT REQUIRES A SINGLE-GANG BOX AT 80" AFF. TO THE BOTTOM OF THE DEVICE WITH 3/4" CONDUIT STUB AND INSULATED THROAT CONNECTOR INTO ACCESSIBLE CEILING SPACE. IF CEILING MOUNTED IT REQUIRES A 4" SQ 2-1/8" DEEP BOX WITH CADDY-BAR SUPPORT. ALL CEILING MOUNTED DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL STROBES TO BE 15/75cd UNLESS OTHERWISE NOTED. INSTALLING CONTRACTOR TO ENSURE ALL VISUAL DEVICES, LOCATED ON PLANS, MEET THE PROPER SPACING AND ADA REQUIRED CANDELA SETTINGS PER NFPA 72.
[X]	WALL OR CEILING MOUNTED HORN/STROBE. WALL MOUNT REQUIRES A 4" SQ 2-1/8" DEEP BOX WITH EXTENSION RING AT 80" AFF TO THE BOTTOM OF THE DEVICE WITH 3/4" CONDUIT STUB AND INSULATED THROAT CONNECTOR INTO ACCESSIBLE CEILING SPACE. IF CEILING MOUNTED IT REQUIRES A 4" SQ 2-1/8" DEEP BOX WITH CADDY-BAR SUPPORT. ALL CEILING MOUNTED DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. ALL STROBES TO BE 15/75cd UNLESS OTHERWISE NOTED. INSTALLING CONTRACTOR TO ENSURE ALL VISUAL DEVICES, LOCATED ON PLANS, MEET THE PROPER SPACING AND ADA REQUIRED CANDELA SETTINGS PER NFPA 72.
[WP]	WP - DEVICES WEATHER PROOF COVER (E3-1200 FOR WALL MOUNT & E3-1205 FOR CEILING MOUNT)
[HOO]	KITCHEN HOOD SUPPRESSION SYSTEM (FABBO). MONITOR HOOD SYSTEM VIA BASE BUILDING FIRE ALARM SYSTEM
[Hatched Area]	THIS AREA IS NOT PART OF CONTRACT, NO WORK THIS AREA.
FIRE ALARM INDEX OF ABBREVIATIONS	
[Line]	INDICATES M/C CONTROL NO. (TYP.)
[Line]	INDICATES DEVICE WIRING SEQUENCE (TYP.)
[Line]	INDICATES DEVICE ADDRESS (TYP.)

- ### FIRE ALARM SEQUENCE OF OPERATION
- THE OPERATION OF ANY MANUAL PULL STATION, SMOKE DETECTOR, HEAT DETECTOR OR SPRINKLER WATER FLOW SWITCH SHALL CAUSE THE FOLLOWING ACTIONS AND INDICATIONS:
 - [A] THE SYSTEM COMMON ALARM LED ON THE CPU SHALL FLASH. THE INTERNAL AUDIBLE DEVICE SHALL SOUND ACKNOWLEDGING THE ALARM CONDITION SHALL SILENCE THE AUDIBLE DEVICE AND REVERT THE COMMON ALARM LED TO A STEADY STATE.
 - [B] THE BACK-LIT ALPHANUMERIC DISPLAY, SHALL DISPLAY THE DEVICE TYPE, DEVICE LOCATION, TIME, AND DATE OF ALARM AND A UNIQUE CUSTOM MESSAGE.
 - [C] TRANSFER THE COMMON ALARM SIGNALS SENDING AN ALARM SIGNAL TO AN APPROVED CENTRAL STATION. (TWO DEDICATED TELEPHONE CONNECTION, AND SERVICE BY OWNERS).
 - [D] ACTIVATE AUDIBLE/VISUAL DEVICES THROUGHOUT THE FACILITY.
 - [E] DISPLAY STATUS ON THE REMOTE FIRE ALARM ANNUNCIATOR.
 - OPERATION OF ANY SMOKE OR HEAT DETECTOR LOCATED IN AN ELEVATOR LOBBY, ON THE MAIN FLOOR SHALL SEND A SIGNAL TO THE ELEVATOR CONTROLS FOR ALTERNATE ELEVATOR RECALL SERVICE.
 - OPERATION OF ANY SMOKE DETECTOR LOCATED IN AN ELEVATOR LOBBY ON UPPER LEVEL, THRU THE ROOF SHALL SEND A SIGNAL TO THE ELEVATOR CONTROLS FOR MAIN ELEVATOR RECALL SERVICE.
 - OPERATION OF THE ELEVATOR MACHINE ROOM THERMAL DEVICE SHALL SEND A SIGNAL TO THE ELEVATOR CONTROLS FOR ELEVATOR SHUNT TRIP.
 - OPERATION OF ANY ELEVATOR MACHINE ROOM SMOKE DETECTOR SHALL SEND A SIGNAL TO THE ELEVATOR CONTROLS FOR RECALL TO DESIGNATED FLOOR AND FLASH THE FIREFIGHTER'S LAMP INSIDE THE RESPECTIVE ELEVATOR CAB.
- *THE SYSTEM DESIGN MEETS THE 2005 IBC/IFC AND NFPA 72 2002 EDITION.

FOR SUBMITTAL RECORD DRAWINGS

I have reviewed these plans and certify that they comply with the applicable codes and standards:

Or

certify they were copied from sealed engineering plans and any violations of the applicable codes or standards are specifically noted on these plans.

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Phillip A. Sammons 10/28/2010
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FIRE ALARM SYSTEM
 GENERAL LAYOUT

DRAWING SCALE: 1/8" = 1'-0"
 DATE: 10/28/2010
 CAD FILE NAME: FA.01
 ENGINEER BY: PAS
 CHECKED BY: RL

FSPS PROJECT NO. 10-0000
 FSPS DRAWING NO. FA-1