



BASE4

BASE4
3858 GLADES ROAD, #31
BOCA RATON, FLORIDA 33434
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SEAL



GARRY VERMAAS, PhD, PE
2016.08.05
9011 EDGEWATER BEND
PARKLAND, FLORIDA, 33076



ISSUE:

Issued for Permit
08.05.2016

PROJECT: 16-018

Hampton Inn & Suites

New Stanton, PA 15672

OWNER:

Stanton Hospitality LLC

52 Blueberry Lane,
Grove City, PA 16127

DATE 2016.08.05

DRAWN BY SJ

CHECKED BY GWV

SCALE AS NOTED

PROJECT NO. B4-67-1603

SHEET NAME

FIRE ALARM RISER
DIAGRAM

SHEET NO.

FA501

SEQUENCE OF OPERATION

* SOME SYSTEM AND INPUTS MAY NOT BE APPLICABLE TO THIS PROJECT.
** IT IS NOT THE INTENT TO REPROGRAM THE PANEL. SEQUENCE SHOWN FOR REFERENCE ONLY.

	ALARM CONDITION ANNUNCIATION	SUPERVISORY CONDITION ANNUNCIATION	TROUBLE CONDITION ANNUNCIATION	ACTIVE NOTIFICATION ANNUNCIATION	SEND ALARM CODE TO MONITORING STATION	SEND SUPERVISORY CODE TO MONITORING STATION	SEND TROUBLE CODE TO MONITORING STATION	SEND SHUTDOWN COMMAND TO MONITORING STATION	SEND RECALL COMMAND TO MONITORING STATION	SEND COMMAND TO SHUNT TRIP ELEVATOR EQUIPMENT	SEND UNDOCK COMMAND TO ELEVATOR EQUIPMENT	SEND SHUTDOWN COMMAND TO ACCESS CONTROL	ANNUNCIATION AT BOTH FACP AND ANCP TO ALERT FIREFIGHTERS	THAT ELEVATORS ARE NO LONGER SAFE TO USE
SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1 MANUAL STATIONS	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2 SMOKE OR HEAT DETECTOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3 DUCT SMOKE DETECTOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4 SMOKE CONTROL DETECTOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5 ELEVATOR CONTROL SMOKE DETECTOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6 ELEVATOR HEAT DETECTOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●
7 SPRINKLER FLOW SWITCH	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8 SPRINKLER TAMPER SWITCH	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9 FIRE PUMP	●	●	●	●	●	●	●	●	●	●	●	●	●	●
10 SYSTEM TROUBLES	●	●	●	●	●	●	●	●	●	●	●	●	●	●
11 ELEVATOR ROOM SMOKE	●	●	●	●	●	●	●	●	●	●	●	●	●	●
12 ELEVATOR LOBBY SMOKE	●	●	●	●	●	●	●	●	●	●	●	●	●	●
13 ELEVATOR HOISTWAY SMOKE	●	●	●	●	●	●	●	●	●	●	●	●	●	●

FIRE ALARM WIRE LEGEND

A = 16/2 FPLP NON-SHIELDED (WHITE/BLUE)
B = 14/2 FPLP NON-SHIELDED (BLUE)
C = 14/2 FPLP NON-SHIELDED (YELLOW)
D = 14/2 FPLP NON-SHIELDED (BLACK)
E = 18/4 FPLP NON-SHIELDED (WHITE)

FIRE ALARM SYMBOLS

FACP	— VIGILANT FIRE CONTROL PANEL
ANN	— VIGILANT REMOTE ANNUNCIATOR
EXP	— VIGILANT NAC CIRCUIT EXPANDER PANEL
F	— VIGILANT ADDRESSABLE MANUAL STATION
DD	— VIGILANT DUCT DETECTOR
SM	— VIGILANT SOUNDER CONTROL MODULE
S	— GENESIS MULTI-Ω STROBE ONLY
F	— GENESIS HORN/STROBE MULTI-Ω
F _{WP}	— GENESIS WEATHERPROOF HORN/STROBE MULTI-Ω
CS	— GENESIS CEILING STROBE ONLY
CH	— GENESIS CEILING HORN/STROBE
MH	— GENESIS MINI HORN
CS	— VIGILANT CARBON MONOXIDE/SMOKE DETECTOR
H	— VIGILANT HEAT DETECTOR
PS	— VIGILANT PHOTO SMOKE/HEAT DETECTOR W/6" STANDARD BASE
PS	— VIGILANT PHOTO ELECTRIC SMOKE DETECTOR/CO DETECTOR COMBINATION W/6" STANDARD BASE
CS	— VIGILANT SOUNDER BASE SMOKE DETECTOR
—	— END OF LINE RESISTOR
DH	— EDWARDS MAGNETIC DOOR HOLDER
MM	— VIGILANT DUAL MONITOR MODULE
R	— VIGILANT ADDRESSABLE CONTROL RELAY
TS	— TAMPER SWITCH BY OTHERS
FS	— FLOW SWITCH BY OTHERS

NOTES:
All Visual Signal Device Candella Ratings (cd) indicated next to Device.
Verify with contract drawings for exact device location and mounting height.
Fire Alarm System Complies with 2010 NFPA 72 & 101 of F.F.P.C.

FIRE ALARM NOTES

- ALL SMOKE DETECTORS SHALL BE (MODEL NO BRK SC9120B) COMBINATION OF SMOKE AND CO DETECTORS DETECTOR INSTALLED MINIMUM 3'-0" FROM HVAC SUPPLY AIR DIFFUSERS.
- SHUNT TRIP BREAKER FOR ELEVATOR CONTROLLER SHALL BE ACTIVATED BY HEAT DETECTOR IN ELEVATOR EQUIPMENT ROOM.
- THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS OF THE PROPOSED FIRE ALARM SYSTEM INCLUDING ALL DEVICES AND WIRING LAYOUTS TO THE FIRE MARSHALL FOR APPROVAL PRIOR TO PURCHASING OR INSTALLING ANY ROUGH-IN BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. THE ENGINEER WILL PROVIDE CAD DRAWING OF FLOOR PLANS FOR SHOP DRAWING PREPARATION ON REQUEST. ANY REVISIONS OR ALTERATIONS TO THE SYSTEM REQUIRED BY THE LOCAL JURISDICTION PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY OBTAINING THE CERTIFICATE OF OCCUPANCY WILL NOT BE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR.
- DETECTION DEVICES ARE EQUIPPED THROUGHOUT GUEST ROOM CORRIDORS, AT SPACING NOT TO EXCEED 40 FEET ON CENTER, PUBLIC AREAS, SERVICE AREAS, (WHERE APPLICABLE) AND MECHANICAL AREAS. DETECTORS ARE REQUIRED FOR ALL STORAGE ROOMS MORE THAN 150 SQUARE FEET. MANUAL PULL STATIONS ARE REQUIRED ADJACENT TO ALL EXIT DOORS THAT LEAD DIRECTLY TO AN EXTERIOR AND AT ALL STAIRWELL ENTRANCE DOORS.
- IN BUILDINGS WHERE SMOKE DETECTION WILL BE OBSTRUCTED BY WALLS, BEAMS OR CEILING FEATURES, CONTRACTOR SHALL PROVIDE AND INSTALL DEVICE TO MITIGATE THE OBSTRUCTIONS.
- FIRE DETECTION SYSTEMS UTILIZING SMOKE DETECTION IN SITUATIONS WHERE SMOKE STRATIFICATION IS ANTICIPATED, THE DESIGN SHALL PROVIDE THE NECESSARY CRITERIA TO MITIGATE THE DETECTION PROBLEMS.
- SYSTEMS DESIGNED USING PERFORMANCE BASED CRITERIA SHALL BE IDENTIFIED AND REFERENCED TO DESIGN GUIDES OR STANDARDS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION CONSISTENT WITH STANDARDS ADOPTED BY THE FLORIDA FIRE PREVENTION CODE AND THE FLORIDA BUILDING CODE (2007).

