



CITY OF TAMPA  
CONTRACT ADMINISTRATION  
DEPARTMENT  
PLANNING AND DESIGN DIVISION  
305 E. JACKSON STREET 4 NORTH  
TAMPA, FLORIDA 33602  
p: 813. 274. 8456 - f: 813. 274. 8080  
url: www.tampagov.net

James E. Jackson, Jr. AIA, NOMA  
City Architect  
Edward D. Rice, AIA  
Project Architect  
Kevin L. Henika, AIA  
Project Architect  
Thomas A. Hester, Sr., AIA, NOMA  
Project Architect  
David R. Pagitt  
Supervisor, Architectural Drafting  
Kinsey C. Tillman  
Drafting Technician  
Jerry P. Sanders  
Drafting Technician  
Byron K. Thomas, LEED AP  
Drafting Technician

MEP CONSULTANT  
GRINER ENGINEERING, INC.  
1628 1st AVENUE NORTH  
ST. PETERSBURG, FL 33713

STRUCTURAL CONSULTANT  
BILLER REINHART  
STRUCTURAL GROUP, INC.  
4014 GUNN HWY. SUITE 240  
TAMPA, FL 33713

CIVIL CONSULTANT  
5 M CIVIL LLC  
12315 WYCLIFF PLACE  
TAMPA, FL 33626

LANDSCAPE CONSULTANT  
DAVID CONNER & ASSOCIATES  
1503 W. SWANN AVENUE SUITE 255  
TAMPA, FL 33606

FIRE STATION 23  
20770 TROUT CREEK DR.  
TAMPA, FL 33647

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SEAL

Jose A Rosario, P.E. FL. 74457

SCALE: N.T.S.

FIRE ALARM RISER DIAGRAM

SHEET NUMBER

E6.1

X OF X

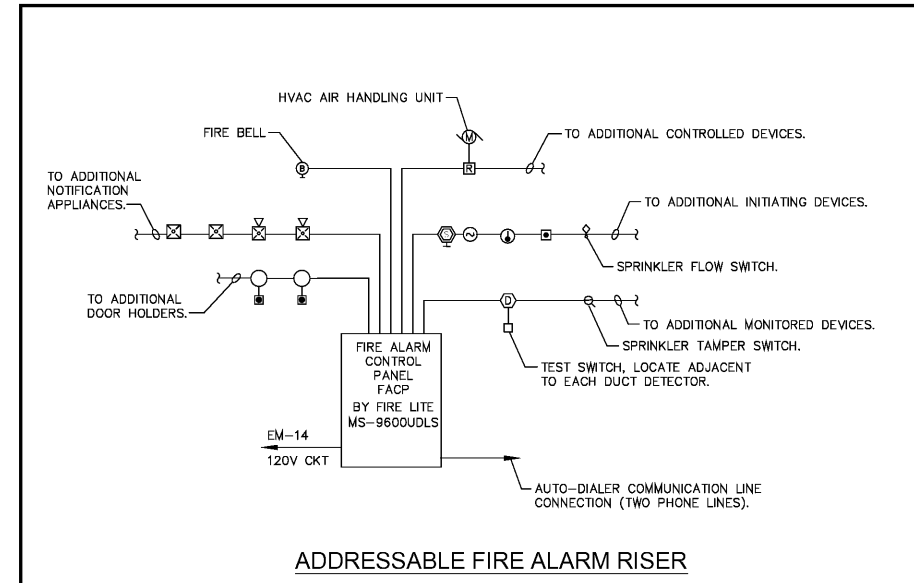


**FIRE ALARM GENERAL NOTES:**

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED ADDRESSABLE FIRE ALARM SYSTEM, INCLUDING ALL DEVICES AND WIRING LAYOUTS, BATTERY CALCULATIONS AND FREQUENCY OF OPERATION TO THE FIRE MARSHAL FOR APPROVAL PRIOR TO SUBMITTING TO ENGINEER FOR REVIEW. ANY REVISIONS AND/OR ADDITIONS REQUIRED BY THE LOCAL JURISDICTION PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT BE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR.
2. THE FIRE ALARM SYSTEM SHALL BE INSTALL IN COMPLIANCE WITH NFPA 70, 72, FLORIDA BUILDING CODE, AND LOCAL ORDINANCE.
3. SYSTEM SUPPLIER SHALL SUPERVISE INSTALLATION, PROGRAM AND TEST SYSTEM, AND INSTRUCT OWNER.
4. ALL CONTROL CABINETS SHALL BE GROUNDED PER NEC AND MANUFACTURER SPECIFICATION.
5. SYSTEM INSPECTION, TEST RESULT, AND OPERATION SHEETS SHALL BE PROVIDED TO THE OWNER.
6. REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL REQUIREMENTS.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS SHOWING EXACT FIELD INSTALLATION TO THE OWNER AFTER COMPLETION OF THE PROJECT.
8. ALL FIELD CHANGES SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE.
9. FIRE ALARM SYSTEM SHALL BE ENERGIZED UNDER THE SUPERVISION OF THE MANUFACTURER.
10. SMOKE DETECTORS SHALL BE INSTALLED MINIMUM 3" FROM HVAC SUPPLY AIR DIFFUSERS.
11. VERIFY LOCATION OF THE FIRE ALARM CONTROL PANEL WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
12. PROVIDE INTERLOCKS TO THE BUILDING FIRE ALARM SYSTEM TO PROVIDE AUTOMATIC SIGNALING TO AN APPROVED LOCATION WITH ADEQUATE DIALING AND COMMUNICATION SYSTEM CAPACITY. COORDINATE SIGNAL REQUIREMENTS WITH OWNER AND GENERAL CONTRACTOR.
13. ALL JUNCTION BOXES AND COVER PLATES TO EMERGENCY SYSTEM SHALL BE PAINTED RED FOR QUICK RECOGNITION.
14. ALL CONTROL AND ALARM CABLES SHALL BE INSTALLED IN CONDUIT.
15. CONTRACTOR SHALL VERIFY THAT THE QUANTITY AND LOCATIONS SHOWN ON THE DRAWINGS SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM TO THE OWNER.
16. CONTRACTOR SHALL COORDINATE LOCATIONS AND QUANTITIES OF ALL SPRINKLER TAMPER AND FLOW SWITCHES WITH SPRINKLER CONTRACTOR AND PROVIDE DEVICES AND WIRING AS REQUIRED.
17. FIELD MOUNTED AUDIBLE, VISUAL, AND AUDIBLE-VISUAL APPLIANCES SHALL HAVE THE BOTTOM OF THE FACE PLATE AT 80" AFF, OR 6" FROM THE TOP OF THE PLATE TO CEILING, WHICHEVER IS LOWER.
18. WHEN CEILING MOUNTED, SMOKE AND/OR HEAT DETECTORS SHALL BE MOUNTED NO CLOSER THAT 4" TO A SIDE WALL.
19. CONTROL RELAYS MUST BE MOUNTED WITHIN 3'-0" OF THE EMERGENCY CONTROL DEVICE.
20. WIRING ENTERING OR LEAVING A BUILDING, AND 120VAC CONTROL PANEL CIRCUITS SHALL HAVE SURGE PROTECTION INSTALLED IN ACCORDANCE WITH NFPA 72 1-5, 5.3 AND NEC. ARTICLE 800-1, 800-13, 800-30(A), AND 800-33. MIN. 6X6X6 J-BOX.
21. ALL DEVICES SUCH AS FIRE ALARM PULLS, STROBES AND HORNS, ETC ARE TO BE RED IN COLOR.
22. PROGRAM DACT AND ESTABLISH PROPER REPORTING TO THE MONITORING SYSTEM.
23. CONTRACTOR SHALL INCLUDE MINIMUM (4) HOURS IN HIS BID PROPOSAL FOR OWNER'S TRAINING. THE TRAINING TO BE PERFORMED AFTER COMPLETION OF FIRE ALARM SYSTEM.

**CENTRAL STATION TRANSMISSION OF SIGNALS & MONITORING NOTE:**

- ALL SIGNALS (ALARM/ TROUBLE/SUPERVISORY) WILL BE TRANSMITTED TO THE CENTRAL STATION/911 (SYSTEM WILL REPORT AS CONTACT ID).
- THE MEANS OF TRANSMISSION ARE PHONE LINES OR INTERNET VIA IP ADDRESS.
- ALL SIGNALS WILL BE TRANSMITTED AS A POINT ADDRESSABLE SIGNAL TRANSMITTED TO THE CENTRAL STATION RECEIVER. SYSTEMS POINTS WILL BE IDENTIFIED AT THE CENTRAL STATION AS FOLLOWS:  
DEVICE TYPE ( PULL STATION, SMOKE, ETC ) + DEVICE LOCATION ( FLOOR + GENERAL DESCRIPTION ) + INDIVIDUAL BUILDING PHYSICAL ADDRESS OR BUILDING NUMBER.
- THE FIRE ALARM DIALER IS AN OPTIONAL BOARD THAT MOUNTS INSIDE THE FIRE ALARM CABINET ON TOP OF THE FIRE ALARM MAIN BOARD.



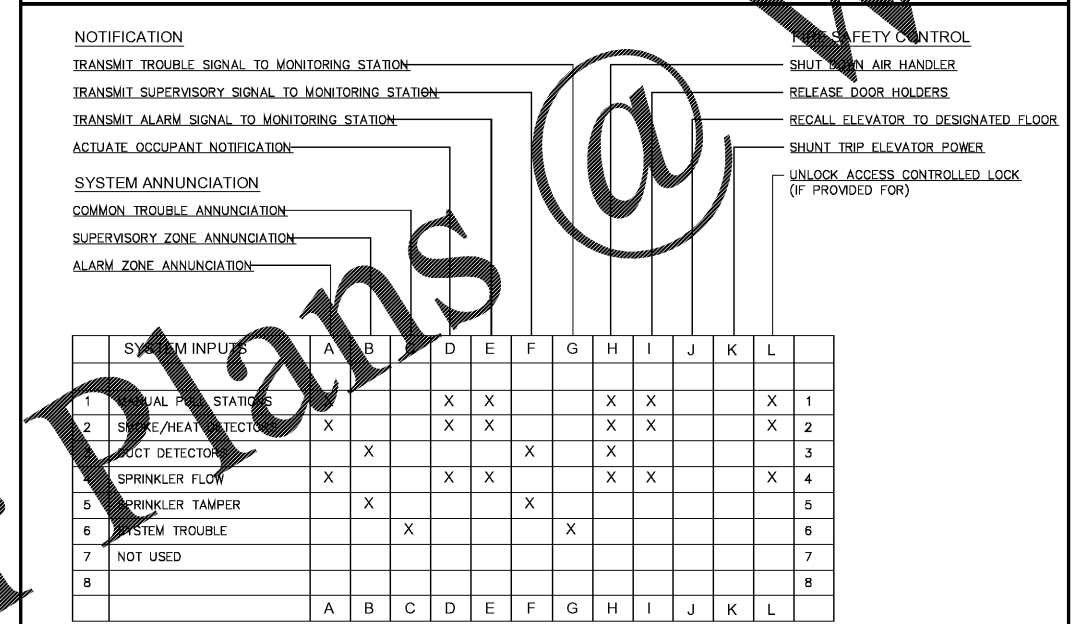
**ADDRESSABLE FIRE ALARM RISER**

1. THE FIRE ALARM CONTROL (FACP) SHALL BE NON PROPRIETARY AND IS MANUFACTURED BY FIRE LITE MODEL MS-9600UDLS W/DAC2-2UD OR APPROVED BY ENGINEER AND OWNER EQUAL.
2. THE FIRE ALARM CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED ADDRESSABLE BUILDING FIRE ALARM SYSTEM, INCLUDING ALL DEVICES AND WIRING LAYOUTS, BATTERY CALCULATIONS AND SEQUENCE OF OPERATION (IN PLAN FORM), TO THE FIRE MARSHAL FOR APPROVAL PRIOR TO SUBMITTING TO ENGINEER FOR REVIEW. ANY REVISIONS AND/OR ADDITIONS REQ'D. BY THE LOCAL JURISDICTION PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT BE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR.

**FIRE ALARM CONDUCTOR SCHEDULE**

DESIGNATION	CONDUCTOR	DEVICE TYPE	COLOR CODE
A	2 NO. 14 'THHN' - STRANDED	INITIATION DEVICES	TWISTED PAIR
C	2 NO. 12 'THHN' - STRANDED	AUDIO/VISUAL DEVICES	RED/BLACK
E	2 NO. 14 'THHN' - STRANDED	AUXILIARY RELAYS	BLUE/ORANGE
F	2 NO. 14 'THHN' - STRANDED	SUPERVISORY DEVICES	PURPLE/BROWN

**FIRE ALARM SYSTEM SEQUENCE MATRIX**



SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L
1 MANUAL PULL STATIONS				X	X			X	X			X
2 SMOKE/HEAT DETECTOR	X			X	X			X	X			X
3 DUCT DETECTOR		X				X		X				2
4 SPRINKLER FLOW	X			X	X			X	X			X
5 SPRINKLER TAMPER		X				X						5
6 SYSTEM TROUBLE			X				X					6
7 NOT USED												7
8												8

GENERAL NOTES:  
• ALL FIRE ALARM SYSTEM DEVICES TO BE ADDRESSABLE.

Order Plans

**FIRE ALARM RISER DIAGRAM**  
SCALE: N.T.S.

**GRINER**  
GRINER ENGINEERING, INC.  
1628 First Avenue North  
St. Petersburg, Florida 33713  
Phone: (727)-822-2335  
Fax: (727)-821-3361  
Certificate of Authorization #3173

Date	06-15-2017
Drawn	HH
Designed	HH
EOR	JAR
Job no.	17049