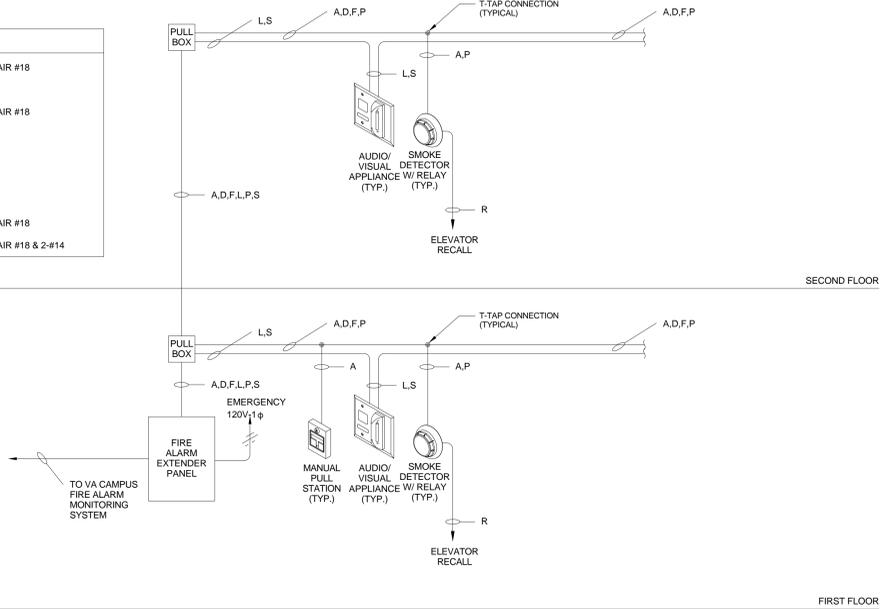


three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

WIRING LEGEND	
DATA CIRCUIT "A"	1 TWISTED SHIELDED PAIR #18
DOOR CIRCUIT "D"	2-#14
FIREMAN'S CIRCUIT "F"	1 TWISTED SHIELDED PAIR #18
POWER CIRCUIT "L"	2-#14
POWER CIRCUIT "P"	2-#14
RELAY CIRCUIT "R"	2-#14
SIGNAL CIRCUIT "S"	2-#14
TRIP CIRCUIT "T"	1 TWISTED SHIELDED PAIR #18
ANNUN. CIRCUIT "X"	1 TWISTED SHIELDED PAIR #18 & 2-#14



FIRE ALARM SYSTEM RISER DIAGRAM

SCALE: NONE

- | FIRE ALARM SYSTEM NOTES | |
|---|---|
| 1. FIRE ALARM DIAGRAM IS SHOWN FOR BIDDING PURPOSES ONLY. EXACT WIRING DIAGRAM FOR APPROVAL AND INSTALLATION SHALL BE PREPARED BY FIRE ALARM SUPPLIER. | 12. FIRE ALARM SYSTEM COMPONENTS SHALL BE SUPPLIED AND INSTALLED BY A QUALIFIED CONTRACTOR LICENSED BY THE STATE TO PERFORM SUCH WORK. IN ADDITION, FIRE ALARM CONTRACTOR SHALL HOLD A CURRENT PERMIT FROM THE CITY OR JURISDICTION TO PERFORM SUCH WORK. |
| 2. PRIOR TO COMMENCEMENT OF WORK, OBTAIN APPROVAL ON SYSTEM LAYOUT AND DESIGN FROM THE VA AS REQUIRED. PREPARE AND SUBMIT PROPER DOCUMENTATION, IN APPROPRIATE QUANTITIES, FOR REVIEW AND APPROVAL. IN ADDITION TO QUANTITIES OF COPIES REQUIRED BY JURISDICTION, FURNISH ONE COPY EACH TO ARCHITECT, ENGINEER AND OWNER. | 13. ONE SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE MAINTAINED ON THE SITE AND MADE AVAILABLE TO THE VA UPON REQUEST. |
| 3. SEE FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF ALL FIRE ALARM PANELS AND DEVICES. | 14. THE VA SHALL WITNESS FINAL ACCEPTANCE TEST OF FIRE ALARM SYSTEM. (SCHEDULE TEST) AT LEAST 72 HOURS PRIOR TO TEST TIME. |
| 4. FIRE ALARM CONDUIT SHALL BE A MINIMUM OF 3/4" TRADE SIZE, INSTALLED IN ACCORDANCE WITH RELATED SECTION OF SPECIFICATIONS. FIRE ALARM CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. | 15. IMMEDIATELY AFTER FINAL FIRE ALARM ACCEPTANCE TEST, SUPPLIER SHALL PROVIDE THE VA WITH ONE COPY OF "FIRE ALARM SYSTEM CERTIFICATION RECORD" COMPLETELY FILLED OUT. |
| 5. FIRE ALARM CONDUCTORS SHALL COMPLY WITH REQUIREMENTS OF NEC ARTICLE 760. ALL WIRING SHALL BE PER FIRE ALARM MANUFACTURER'S RECOMMENDATIONS. | 16. PROVIDE RELATED WIRING FROM FIRE ALARM CONTROL PANEL TO ELEVATOR DISCONNECT SWITCH, INTEGRAL RELAY TO PROVIDE SUPERVISORY MONITORING OF SHUNT TRIP OPERATING VOLTAGE AS REQUIRED PER NFPA 72. |
| 6. ALL JUNCTION BOXES SHALL BE FURNISHED WITH BOX LUG-TYPE TERMINAL BLOCKS WITH MINIMUM TWENTY PERCENT (20%) SPARE. | 17. PROVIDE DUAL TELEPHONE LINES FOR CITY TIE-IN OR THIRD PARTY MONITORING FROM MAIN TELEPHONE EQUIPMENT BOARD TO FIRE ALARM CONTROL PANEL. COORDINATE REQUIREMENTS WITH LOCAL FIRE DEPARTMENT AND OTHER LOCAL AND STATE AUTHORITIES HAVING JURISDICTION. |
| 7. FIRE ALARM SUPPLIER SHALL FURNISH COMPLETE POINT-BY-POINT WIRING DIAGRAM INDICATING ALL CONDUIT SIZES AND QUANTITIES OF CONDUCTORS. | 18. PROVIDE ALL WIRING REQUIRED FOR NEW FIRE ALARM SYSTEM TO BE MONITORED BY THE VA'S CAMPUS FIRE ALARM SYSTEM. |
| 8. FIRE ALARM SUPPLIER SHALL FURNISH COMPLETE VOLTAGE DROP CALCULATIONS FOR ALL INITIATING DEVICE CIRCUITS USING ACTUAL CONDUCTOR SIZES, LENGTHS, AND AMPERAGE REQUIREMENTS OF DEVICES BEING APPLIED. | |
| 9. FIRE ALARM SYSTEM SUPPLIER SHALL FURNISH COMPLETE POWER SUPPLY AND BATTERY SIZING CALCULATIONS USING POWER REQUIREMENTS OF ACTUAL DEVICES BEING APPLIED. | |
| 10. FIRE ALARM SYSTEM SHALL BE DESIGNED, INSTALLED, AND OPERATE IN ACCORDANCE WITH ALL REQUIREMENTS OF THE VA. | |
| 11. ALL FIRE ALARM SYSTEM COMPONENTS SHALL BE NEW, UL LISTED AND APPROVED, AS WELL AS BEING ADA COMPLIANT. | |

FINAL SUBMITTAL

No.	Description	Date
	DD#1	07/09/2012
	DD#2	08/13/2012
	CD#1	09/24/2012
	CD#2	11/02/2012
	FINAL SUBMITTAL	05/07/2013
Revisions:		Date

CONSULTANTS	

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Drawing Title	
FIRE ALARM RISER DIAGRAM	
Approved: Project Director	

Project Title		
VA Erie Parking Structure		
Location Erie, PA		
Date	Checked	Drawn
9/24/2013	MSB	SRH
Project Number 11159.00		
Building Number		
Drawing Number E-621		

Office of Construction and Facilities Management
 Department of Veterans Affairs