

FACP BATTERY CALCULATIONS (FIRE-LITE ES-50X)							
MODEL NUMBER	DESCRIPTION	QUANTITY	STANDBY POWER		IN ALARM		CURRENT (mA)
			CURRENT PER DEVICE (mA)	TOTAL CURRENT (mA)	CURRENT PER DEVICE (mA)	TOTAL CURRENT (mA)	
FIRE-LITE ES-50X	FIRE ALARM CONTROL PANEL	1	141	141	257	257	STANDBY CURRENT
FIRE-LITE ANN-80	ANNUNCIATOR	1	15	15	40	40	HOURS
FIRE-LITE BS-12LX	MANUAL PULL STATION	3	0.30	0.90	SEE NOTE 1	SEE NOTE 1	STANDBY mA
FIRE-LITE SD565	SMOKE DETECTION	1	0.3	0.3	SEE NOTE 1	SEE NOTE 1	ALARM CURRENT
FIRE-LITE WMF-300	MONITOR MODULE	2	0.40	0.80	SEE NOTE 1	SEE NOTE 1	HOURS
FIRE-LITE CRF-300	CONTROL/RELAY MODULE	2	0.3	0.60	SEE NOTE 1	SEE NOTE 1	ALARM mA
FIRE-LITE H565	HEAT DETECTOR	14	0.3	4.20	SEE NOTE 1	SEE NOTE 1	TOTAL mA
FIRE-LITE IOTS-COM	COMMUNICATOR EXT	1	40	40	41	41	TOTAL AH
							CONTINGENCY
							BATTERY TOTAL
AS INDICATED	MAX DRAIN ALL DEVICES	1	0	0	200	200	
SYSTEM SENSOR	CIRCUIT AV01	1	0	0	528	528	
SYSTEM SENSOR	CIRCUIT AV02	1	0	0	516	516	
TOTAL					202.80	1,582	BATTERY PROVIDED

FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP CALCULATIONS							
SIGNAL CIRCUIT DESCRIPTION	APPS/CIRCUIT LOCATION	ACTUAL ALARM CURRENT (mA)	MAXIMUM DISTANCE TO LAST APPLIANCE		CALCULATED VOLTAGE DROP USING 14 AWG CABLING (BASED ON 20.4 VDC SOURCE)		
			12 AWG CABLING (FEET)	14 AWG CABLING (FEET)	APPROX CIRCUIT LENGTH (FEET)	VOLTAGE AT LAST APPLIANCE (VOLTS)	VOLTAGE DROP (VOLTS)
FACP	MAIN ELECTRICAL ROOM						
AV01	INVENTORY / SHOWROOM	528	2,159	1,357	270	19.52	0.88
AV02	SERVICE BAY	516	2,209	1,369	276	19.53	0.87

NOTES:  
 1. ALARM CURRENT FOR ADDRESSABLE DEVICES IS CALCULATED BASED ON THE MAXIMUM CURRENT REQUIRED FOR ALL DEVICES.  
 2. BATTERIES IN EXCESS OF 18 AH CANNOT BE INSTALLED IN THE FIRE-LITE ES-50X FACP ENCLOSURE AND MUST BE INSTALLED IN A BATTERY BOX LISTED FOR THAT PURPOSE WITH A PROPERLY SIZED CHARGER.

ZONING		
ZONE NUMBER	ACTUATED DEVICES	ALPHANUMERIC LABEL OF ZONE
Z01	FACP / FAAN / DACT	ALARM CONDITION AT FACP, FAAN, AND OFF-SITE MONITORING STATION
Z02	FACP / FAAN / DACT	SUPERVISORY CONDITION AT FACP, FAAN, AND OFF-SITE MONITORING STATION
Z03	FACP / FAAN / DACT	TROUBLE CONDITION AT FACP, FAAN, AND OFF-SITE MONITORING STATION
Z04		
Z05		
Z06	FACP	INTERIOR NOTIFICATION APPLIANCE ACTIVATION
Z07		
Z08		
Z09	14	ACTIVATE FIRE SHUTTERS
Z10		
THRU		
Z20		

ADDRESSABLE DEVICES			
ADDRESS	TYPE / ID	ACTUATED ZONES	ALPHANUMERIC LABEL OF DEVICE
01			
02			
03			
04			
05			
06			
07			
08			
09			
10	SMOKE	Z01, Z06, Z09	UTILITY ROOM - ABOVE FACP
11			
12			
13			
14	RELAY		ACTIVATE FIRE SHUTTER
15			
16			
17			
18	PULL	Z01, Z06	SERVICE AREA (M) EXIT DOOR
19	PULL	Z01, Z06	SERVICE AREA (E) EXIT DOOR
20	PULL	Z01, Z06	MAIN ENTRANCE
21			
22			
23			
24	MONITOR	Z02, Z10	RTU 1 RETURN DUCT SMOKE DETECTOR
25	MONITOR	Z02, Z10	RTU 1 SUPPLY DUCT SMOKE DETECTOR
26	RELAY		RTU 1 SHUTDOWN
27			
28			
29	HEAT	Z01, Z06, Z09	INVENTORY AREA
30	HEAT	Z01, Z06, Z09	INVENTORY AREA
31	HEAT	Z06, Z09	SERVICE BAY
32	HEAT	Z01, Z06, Z09	SERVICE BAY
33	HEAT	Z01, Z06, Z09	SERVICE BAY
34	HEAT	Z01, Z06, Z09	UNisex TOILET
35	HEAT	Z01, Z06, Z09	OFFICE
36	HEAT	Z01, Z06, Z09	BREAK ROOM
37	HEAT	Z01, Z06, Z09	SHOW ROOM
38	HEAT	Z01, Z06, Z09	SHOW ROOM
39	HEAT	Z01, Z06, Z09	SERVICE BAY
40	HEAT	Z01, Z06, Z09	SERVICE BAY
41	HEAT	Z01, Z06, Z09	SERVICE BAY
42	HEAT	Z01, Z06, Z09	SERVICE BAY
43			
44			
45			
46			
47			
48			
49			
50			

**FIRE ALARM GENERAL NOTES**

- THE FIRE ALARM SYSTEM SHALL OPERATE AS A STANDALONE LOW VOLTAGE SYSTEM AND SHALL BE AN INTELLIGENT ADDRESSABLE SUPERVISED SYSTEM CIRCUITS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
  - INITIATING DEVICE CIRCUITS - CLASS B
  - NOTIFICATION APPLIANCE CIRCUITS - CLASS B
  - SIGNALING LINE CIRCUITS - CLASS B
  - CIRCUITS FOR RELAY COIL OPERATION SHALL BE 24 VDC MAXIMUM WITH A SEPARATE OR INTEGRAL FIELD COLLAPSING DIODE
- THE FIRE ALARM CABINETS AND DOCUMENTATION CABINET SHALL HAVE A HINGED DOOR KEYS IN COMBINATION WITH ALL OTHER KEYS THROUGHOUT THE SYSTEM
- COORDINATE INSTALLATION OF A GROUND ROD OR ACCEPTABLE BUILDING GROUND FOR PROPER GROUNDINGS OF THE FACP WITH THE ELECTRICAL CONTRACTOR
- UPON LOSS OF BUILDING POWER, THE ENTIRE SYSTEM SHALL TRANSFER TO SECONDARY POWER WITHIN TEN (10) SECONDS, AND WITHOUT LOSS OF SIGNALS THE SYSTEM SHALL OPERATE UNDER SECONDARY POWER IN NORMAL OR TROUBLE CONDITIONS FOR TWENTY-FOUR (24) HOURS AND HAVE SUFFICIENT POWER TO SUPPORT COMPLETE ALARM CONDITION OPERATION FOR A SUBSEQUENT FIVE (5) MINUTES AT MAXIMUM CONNECTED LOAD
- ALL SIGNALING LINE CIRCUITS, INITIATING DEVICE CIRCUITS, AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA 72
- PROVIDE END OF LINE RESISTORS FOR ALL INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS PER MANUFACTURER SPECIFICATIONS
- PROVIDE A COMPUTER GENERATED PRINTED LABEL FOR EACH INITIATING DEVICE INDICATING THE SPECIFIC ADDRESS FOR THAT DEVICE. THE LABEL SHALL INCLUDE THE APPLIANCE AND DEVICE NUMBER. THE LABEL SHALL BE LOCATED ON THE BASE OF ALL DETECTORS
- PROVIDE A COMPUTER GENERATED PRINTED LABEL FOR EACH NOTIFICATION APPLIANCE INDICATING THE SPECIFIC CIRCUIT NUMBER FOR THAT APPLIANCE. THE LABEL SHALL INCLUDE END OF LINE RESISTOR LOCATION, CIRCUIT NUMBER AND APPLIANCE NUMBER. THE LABEL SHALL BE LOCATED ON THE BASE OF ALL NOTIFICATION APPLIANCES
- NOTIFICATION APPLIANCE CIRCUITS (NAC) HAVE BEEN DESIGNED FOR A MAXIMUM 1.6 AMPS, MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC. SEE FIRE ALARM NAC VOLTAGE DROP CALCULATIONS ON THIS SHEET.
- ALL AUDIBLE APPLIANCES SHALL BE SET TO THE HIGH DBA SETTING AND SHALL SOUND A THREE-PULSE TEMPORAL PATTERN EVACUATION SIGNAL
- PROVIDE SYNCHRONIZATION OF ALL AUDIBLE AND VISUAL NOTIFICATION APPLIANCE CIRCUITS THROUGHOUT. PROVIDE ALL REQUIRED SYNCHRONIZATION MODULES. PROVIDE MULTI-SYNC MODE SLAVE CONNECTIONS TO ALL AUXILIARY POWER SUPPLIES
- THE AUDIBLE/VISUAL AND VISUAL NOTIFICATION APPLIANCES SHALL BE RED IN COLOR, AND LISTED FOR THE INTENDED APPLICATION
- NOTIFICATION APPLIANCE POLARITY SHALL BE OBSERVED
- WHERE POSSIBLE, PROVIDE FLUSH MOUNTING OF NOTIFICATION APPLIANCES WHERE SURFACE MOUNTED NOTIFICATION APPLIANCES ARE NEEDED. PROVIDE DECORATIVE BACKBOX SKIRT COVERING THE APPLIANCE BACK
- MANUALLY ACTIVATING THE "ALARM SILENCE" AT THE FACP SHALL DE-ENERGIZE BOTH THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES. AN ADDITIONAL ALARM REPORTED TO THE FACP SUBSEQUENT TO INITIATING THE "ALARM SILENCE" SHALL RE-ENERGIZE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING LINE SPACE
- THE CEILING MOUNTED DEVICES AND APPLIANCES SHALL BE INSTALLED ALIGNED AESTHETICALLY WITH THE CEILING LIGHTING, SPRINKLERS, AND OTHER FIXTURES. COORDINATE MOUNTING OF ALL CEILING MOUNTED ALARM DEVICES AND NOTIFICATION APPLIANCES WITH THE ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO INSTALLATION
- DEVICES AND MOUNTING LOCATIONS SHOWN ON THE FIRE ALARM PLANS ARE NOT DIMENSIONED FOR EXACT INSTALLATION. COORDINATE EXACT PLACEMENT OF ALL DEVICES AND MOUNTINGS WITH THE ARCHITECTURAL PLANS, APPLICABLE TRADES, AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION

SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL

VERIFY ALL EQUIPMENT QUANTITIES, LOCATIONS, AND REQUIREMENTS. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL IMMEDIATELY BRING THEM TO THE ATTENTION OF THE FIRE PROTECTION ENGINEER (CPE) FOR RESOLUTION

CONTRACTOR SHALL EXECUTE ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM PER APPLICABLE NATIONAL AND LOCAL CODES, AND AS REQUIRED BY THE A/E AND BY THE CLIENT/OWNER OF THE FACILITY IN ACCORDANCE WITH THEIR NATIONAL CONTRACTOR WITH STANLEY ALARM SYSTEM

BRIDGESTONE (BSRO) UTILIZES STANLEY SECURITY SOLUTIONS FOR THE PURPOSE OF MONITORING THE FIRE ALARM SYSTEM. THE CONTRACTOR SHALL CONTACT AL MAIER AT (617) 642-8917 OR AL.MAIER@BSRO.COM WITH STANLEY SECURITY SOLUTIONS FOR THE SOLE PURPOSE OF ESTABLISHING MONITORING OF THE FIRE ALARM SYSTEM

**FIRE ALARM INSTALLATION NOTES**

- ALL WORK SHALL BE IN ACCORDANCE WITH NFPA STANDARDS AND ALL LOCAL ADOPTED CODES
- FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE. SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED
- ALL FIRE ALARM CABLING SHALL BE FPL, FPLR OR FPLP AS REQUIRED BY THE ELECTRICAL CODE
- PROVIDE ALL REQUIRED CONDUIT, BACKBOXES, AND FITTINGS FOR THE FIRE ALARM SYSTEM CABLING
- FIRE ALARM CABLING SHALL BE RED IN COLOR
- FIRE ALARM CABLING SHALL NOT BE PAINTED
- CABLE ROUTING SHOWN ON DRAWINGS IS FOR INTENT. EXACT ROUTING SHALL BE COORDINATED WITH OTHER TRADES IN THE FIELD. SEE DRAWING NOTES AND DETAILS FOR ACCEPTABLE INSTALLATION METHODS
- ALL CABLING NOT IN RUNWAY SHALL BE NEATLY BUNDLED, WRAPPED TIGHT, AND PROPERLY SECURED. ANY CABLING NOT INSTALLED IN A NEAT AND PROFESSIONAL MANNER SHALL BE PULLED OUT AND RE-RUN BY INSTALLER AT NO ADDITIONAL COST TO OWNER
- CONTRACTOR RUNNING CABLING MUST MARK BOTH ENDS OF CABLING, PROVIDE A WIRE LEGEND FOR ALL LOCATIONS, AND PROVIDE A CONTINUITY TEST LOG FOR EACH CABLE
- EXPOSED CABLING SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. EXPOSED CABLING SHALL NOT BE RUN IN A "SPAN" FASHION BETWEEN BAR JOISTS OR BEAMS (I.E. CABLING SHALL BE ROUTED ALONG PATH OF JOISTS AND BEAMS). ALL CABLING SHALL BE SECURED TO THE STRUCTURAL CEILING BETWEEN JOISTS OR BEAMS
- ALL CABLING SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM GRID, TILES, OR SUPPORT WIRES. ALL CABLING NOT IN RACEWAY SHALL BE SUPPORTED BY BUILDING STRUCTURE AT NO MORE THAN FIVE (5) FEET INTERVALS
- ALL FIRE ALARM CABLING BELOW THE ROOF STRUCTURE, ELECTRICAL AND MECHANICAL ROOMS (SUBJECT TO PHYSICAL DAMAGE), CONCEALED ABOVE CEILING, OR IN PARTITIONS (SUBJECT TO PHYSICAL DAMAGE) SHALL BE INSTALLED IN METALLIC CONDUIT
- ALL POWER LIMITED FIRE ALARM CABLING ABOVE THE STRUCTURE SHALL LAY IN CEILING, OR CONCEALED ABOVE CEILING (NOT SUBJECT TO PHYSICAL DAMAGE) ARE NOT REQUIRED TO BE INSTALLED IN CONDUIT
- ALL NON-POWER LIMITED FIRE ALARM CABLING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT
- ALL CONDUIT SHALL BE TERMINATED ABOVE THE WALL AT THE ROOF STRUCTURE LEVEL WITH SOME FORM OF GROUND RING OR BOX CONNECTOR
- ALL CONDUIT LOCATED IN DRYWALL SHALL BE TERMINATED NO LESS THAN SIX (6) INCHES ABOVE THE CEILING TILE/ROOF STRUCTURE
- FOR DRYWALL APPLICATIONS, ALL CONDUIT AND BACKBOXES SHALL BE RECESSED INSIDE THE WALL
- EXPOSED CABLING OR CONDUIT IS NOT ALLOWED IN THE SHOWROOM
- ALL FIRE ALARM CABLING IN FINISHED AREAS SHALL BE CONCEALED
- COORDINATE DRILLING OF ANY HOLES (I.E. COLUMN PENETRATIONS) WITH THE OWNER'S REPRESENTATIVE AND ALL OTHER TRADES PRIOR TO INSTALLATION
- ALL FIRE ALARM DEVICES SHALL BE INSTALLED IN OR ON A PROPER BACKBOX. NO DEVICES SHALL BE INSTALLED WITHOUT A BACKBOX
- ALL CABLING, CONDUIT, AND BACKBOXES SHALL BE PROPERLY SUPPORTED AND SEISMICALLY BRACED, AS REQUIRED BY ALL APPLICABLE CODES AND THE LOCAL JURISDICTION
- CONDUIT AND CABLING SHALL ENTER INTO THE FACP ONLY AS APPROVED BY THE EQUIPMENT MANUFACTURER
- CONDUIT FILL SHALL NOT EXCEED 40%
- ALL FIRE ALARM JUNCTION BOXES SHALL BE RED IN COLOR

**FIRESTOP NOTES**

- ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED
- FIRE-RATED GYPSUM BOARD WALLS CONSTRUCTED AS DESCRIBED IN THE INDIVIDUAL U300, U400, OR V400 SERIES DESIGNS IN THE U.L. FIRE RESISTANCE DIRECTORY (GENERALLY DOUBLE THICKNESS WALLBOARD) SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS
- ALL REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOORS OR WALLS, AND ALL U.L. CLASSIFIED CONCRETE BLOCK WALLS SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS

**FIREPROOFING NOTES (WHERE REQUIRED)**

- INSTALL ALL HANGERS, CLAMPS, CONDUIT, AND BACK BOXES FOR THE FIRE ALARM SYSTEM PRIOR TO THE APPLICATION OF FIREPROOFING ON STRUCTURAL MEMBERS
- INSTALL ALL HANGERS, CLAMPS, AND BACK BOXES FOR THE FIRE ALARM SYSTEM ON THE EDGE OF ANY JOIST REQUIRING FIREPROOFING. BACK BOXES SHALL BE FASTENED TO THE FLANGE OF THE JOIST UTILIZING BEAM CLAMPS, AND SHALL NOT BE ATTACHED DIRECTLY TO THE JOIST
- ANY DAMAGE TO FIREPROOFING ON THE BUILDING STRUCTURE AS A RESULT OF THE FIRE ALARM SYSTEM INSTALLATION SHALL BE REPAIRED BY A QUALIFIED FIREPROOFING CONTRACTOR. ALL DAMAGE AND REPAIR OF FIREPROOFING SHALL BE REPORTED TO AND COORDINATED THROUGH THE OWNER'S REPRESENTATIVE. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIREPROOFING REPAIRS AT NO ADDITIONAL COST TO THE OWNER
- VERIFY THE LOCATIONS OF ALL FIREPROOFING, PRIOR TO THE INSTALLATION OF ANY FIRE ALARM CONDUIT AND BACKBOXES

**FIRE ALARM KEYED NOTES**

- COORDINATE CONNECTIONS TO DEDICATED 120 VAC POWER CIRCUITS WITH THE ELECTRICAL CONTRACTOR. THE DEDICATED CIRCUIT DISCONNECT SHALL BE RED IN COLOR, LABELED "FIRE ALARM CIRCUIT", AND HAVE A LOCKABLE TAB. ALL FIRE ALARM CIRCUIT BREAKERS SHALL BE CLEARLY MARKED AND MECHANICALLY SECURED TO PREVENT ANY UNAUTHORIZED TAMPERING. IDENTIFY THE LOCATION OF THE CIRCUIT DISCONNECT AT THE FACP. COORDINATE EXACT MOUNTING LOCATION OF CONTROL PANEL WITH THE OWNER'S REPRESENTATIVE AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION
- PROVIDE TWO (2) MEANS OF SIGNAL TRANSMISSION TO THE OFF-SITE MONITORING FACILITY. PROVIDE A DEDICATED PHONE LINE FOR THE PRIMARY MEANS OF TRANSMISSION. THE SECONDARY MEANS SHALL UTILIZE A VOICE OVER INTERNET PROTOCOL / SESSION INITIATION PROTOCOL (VOIP/SIP) CONNECTION TO OWNERS NETWORK. PROVIDE THE SERVICE PHONE NUMBER STICKER ON THE SURFACE OF THE FACP AND THE ASSOCIATED PHONE NUMBER USING DIRECTLY ON THE BUS-X BOXES. COORDINATE ALL PROGRAMMING, SIGNALS TRANSMISSION AND CONNECTIONS WITH THE OFF-SITE MONITORING COMPANY
- PROVIDE TRANSIENT SURGE SUPPRESSION MODULE (DTK-120HW) AT ELECTRIC PANEL. THE SURGE SUPPRESSION MODULE SHALL BE CONNECTED TO THE DEDICATED FIRE ALARM CIRCUIT PER MANUFACTURER SPECIFICATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION
- PROVIDE A PHONE SUPPRESSION MODULE (ELK-355) AT EACH PHONE LINE. PHONE SUPPRESSION MODULE SHALL BE CONNECTED TO THE PRIMARY AND SECONDARY PHONE LINE PER MANUFACTURER SPECIFICATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION
- PROVIDE A DOCUMENTATION CABINET (ELECTRIC ENCLOSURE) ADJACENT TO THE FIRE ALARM CONTROL PANEL TO HOUSE ALL FIRE ALARM DOCUMENTS IN ACCORDANCE WITH NFPA 72. SYSTEM DOCUMENTS SHALL BE AT A MINIMUM RECORD DRAWINGS, EQUIPMENT DATA SHEETS, SOFTWARE AND FIRMWARE CONTROL DOCUMENTATION. THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" AND SHALL BE ACCESSIBLE BY ALL PERSONNEL PERMITTED ON AND PROTECTED FROM PUBLIC ACCESS
- INSTALL SMOKE DETECTOR AND HEAT ON THE BOTTOM OF THE DECK (NOT ON THE BOTTOM OF STRUCTURAL MEMBERS) AND LOCATED MORE THAN THREE (3) FEET FROM MECHANICAL DIFFUSERS, AS INDICATED IN NFPA 72. THE SMOKE DETECTOR AND FIRE ALARM CABLING SHALL BE INSTALLED AND SUPPORTED A MINIMUM 1-1/2 INCHES FROM THE LOWEST SURFACE OF THE ROOF DECKING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE
- PROVIDE A FIRE ALARM ANNUNCIATOR (FAAN) ADJACENT TO THE FRONT ENTRANCE. THE FAAN SHALL BE FLUSH MOUNTED. COORDINATE EXACT MOUNTING LOCATION OF THE FIRE ALARM ANNUNCIATOR KEYPAD WITH THE OWNER'S REPRESENTATIVE AND A/HJ PRIOR TO INSTALLATION
- PROVIDE A MANUAL PULL STATION WITH A PROTECTIVE COVER (INTEGRAL SOUNDER) WITHIN 5' FROM THE EXIT DOOR IN ACCORDANCE WITH NFPA 72. THE INTEGRAL SOUNDER SHALL BE POWERED BY A 9V BATTERY
- PROVIDE MONITORING OF THE RETURN AND SUPPLY DUCT SMOKE DETECTOR (FACTORY PROVIDED, INSTALLED BY MECHANICAL CONTRACTOR, AND POWERED BY THE RTU). PROVIDE WIRING CONNECTIONS TO THE ALARM AND TROUBLE CONTACTS ON THE DUCT DETECTORS TO ALLOW AN ALARM CONDITION TO TAKE PRIORITY OVER A TROUBLE CONDITION. COORDINATE ALL CABLING / CONDUIT ROUTING AND WIRING CONNECTION WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS PRIOR TO INSTALLATION
- PROVIDE A REMOTE TEST STATION / ANNUNCIATOR FOR EACH DUCT SMOKE DETECTOR. PROVIDE ALL REQUIRED CABLING CONNECTIONS AND CONDUIT FROM DETECTORS TO REMOTE TEST STATION / ANNUNCIATORS. MOUNT ALL REMOTE TEST STATION / ANNUNCIATORS ON AN ADJACENT COLUMN OR WALL AND AT AN ACCESSIBLE LOCATION THAT DOES NOT CONFLICT WITH STORE FIXTURES. COORDINATE EXACT MOUNTING LOCATIONS WITH THE OWNER'S REPRESENTATIVE AND LOCAL A/HJ PRIOR TO INSTALLATION
- PROVIDE INTERFACE SIGNALS TO RELEASE AUTOMATIC FIRE SHUTTER UPON ACTIVATION OF AUTOMATIC ALARM SIGNAL. AUTOMATIC FIRE SHUTTER AND ASSOCIATED POWER CONNECTIONS ARE PROVIDED AND INSTALLED BY OTHERS. LOCATE THE ADDRESSABLE MODULES WITHIN THREE (3) FEET OF THE CONTROLLER OR CONTROL CIRCUIT IN ACCORDANCE WITH NFPA 72. PROVIDE INTERFACE CONNECTIONS TO THE AUTOMATIC FIRE SHUTTER. PROVIDE ALL REQUIRED ADDRESSABLE CONTROL MODULES (ACM), INTERMEDIATE RELAYS, AND INTERFACE PANELS

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 2019 - JANUARY - SMALL ER  
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 GONZALES, LA

**BID SET**  
 11.19.19

DAVID J. BURKHART  
 LICENSE NO. 2342  
 PROFESSIONAL ENGINEER  
 MECHANICAL ENGINEERING  
 15/11/19

**FIRE PROTECTION ENGINEER OF RECORD:**  
 DAVID J. BURKHART, PE  
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11/11/19	CSB 1

PROPERTY NO.:	160013
6 DIGIT NO.:	905226
4 DIGIT NO.:	014W
AOR PROJECT NUMBER:	1955827
TO PERMIT DATE:	7-30-2019
TO BID DATE:	##-##-##

SHEET TITLE:  
**FIRE ALARM NOTES, PROGRAMMING AND CALCULATIONS**

SHEET NUMBER:  
**FA2**

Order Plans @