

FIRE ALARM PLAN
SCALE 1/8"=1'-0"
2 1 0 4 8

SCOPE OF WORK

- A ADDRESSABLE FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT THE BRIDGESTONE.
- THE FIRE ALARM SYSTEM SHALL REPORT ALL ALARM, SUPERVISORY, AND TROUBLE SIGNAL TO A REMOTE SUPERVISING STATION.
- THE FIRE ALARM SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - OCCUPANT NOTIFICATION APPLIANCES THROUGHOUT (AUDIBLE/VISUAL)
 - MANUAL PULL STATIONS AT EACH EXIT
 - ONE (1) SMOKE DETECTOR ABOVE THE FACP
 - HEAT DETECTION THROUGHOUT
 - INTERFACE WITH FIRE SHUTTER
 - DUCT DETECTORS IN THE RETURN AND SUPPLY SIDE OF RTU
 - REMOTE TEST STATION FOR EACH DUCT SMOKE DETECTORS
 - POWER-LIMITED

PROJECT INFORMATION

PROJECT NAME: BRIDGESTONE GONZALES, LOUISIANA
 LOCATION: 223 S. AIRLINE HWY GONZALES, LA 70737
 CONSTRUCTION TYPE: V8
 SQUARE FOOTAGE: 5,798 SQ. FT. 1-STORY
 FIRE PROTECTION: NON - SPRINKLERED BUILDING
 BUILDING OCCUPANCY: MIXED USE - MERCANTILE (SHOWROOM) S-1 (INVENTORY AND SERVICE AREA)
 OCCUPANT LOAD: 6 PERSONS
 SYSTEM TYPE: ADDRESSABLE FIRE ALARM SYSTEM

APPLICABLE CODES

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODES AND REFERENCED DOCUMENTS:

- 2015 INTERNATIONAL BUILDING CODE WITH 2014 LOUISIANA AMENDMENTS
- 2015 NFPA FIRE CODE
- 2015 NFPA LIFE SAFETY CODE
- 2015 INTERNATIONAL MECHANICAL CODE WITH 2014 LOUISIANA AMENDMENTS
- 2015 NFPA 70A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
- 2014 NATIONAL ELECTRICAL CODE
- 2016 EDITION NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF FIRE PROTECTION ENGINEER (CQ) FOR RESOLUTION.

FIRE ALARM SYMBOL KEY	QTY.
FACP ADDRESSABLE FIRE ALARM CONTROL PANEL (FIRE-LITE ES-50X) (IN RED ENCLOSURE)	1
FAAN FIRE ALARM LCD ANNUNCIATOR (FIRE-LITE ANN-30)	1
DOC DOCUMENTATION CABINET (SPACE AGE ELECTRONIC FAD ACE-11)	1
AIM ADDRESSABLE INPUT MODULE (FIRE-LITE MMF-300)	2
ARM ADDRESSABLE RELAY MODULE (FIRE-LITE CRF-300)	2
FPC ADDRESSABLE DUAL ACTION MANUAL PULL STATION WITH PROTECTIVE COVER AND INTEGRAL SOUNDER (FIRE-LITE BG-12L) (ST-1100 STOPPER II WITH SOUNDER)	3
S ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR (FIRE-LITE SD355)	1
H ADDRESSABLE HEAT DETECTOR (FIX TEMPERATURE / RATE OF CHANGE) (FIRE-LITE H855A) (SERIAL)	14
SR DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (FACTORY PREWIRED POWERED BY RTU) (S = SUPPLY SIDE) (R = RETURN SIDE)	2
RTI REMOTE TEST STATION / ANNUNCIATOR (SYSTEM SENSOR S151KEY)	2
XX CEILING MOUNTED RED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (SYSTEM SENSOR PC2RL)	4
XX CEILING MOUNTED RED VISUAL APPLIANCE (XX = CANDELA RATING) (SYSTEM SENSOR SC2RL)	1
XX WALL MOUNTED RED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (SYSTEM SENSOR P2RL)	4
— FIRE ALARM CONDUCTORS (WHITE IN COLOR)	
J JUNCTION BOX	
~W END OF LINE RESISTOR	

FIRE ALARM SHEET INDEX

SHEET #	DESCRIPTION
FA1	FIRE ALARM PLAN AND MATRIX
FA2	FIRE ALARM NOTES, PROGRAMMING AND CALCULATIONS
FA3	FIRE ALARM DETAILS
FA4	FIRE ALARM CONTROL PANEL LAYOUT

FIRE ALARM WIRING LEGEND

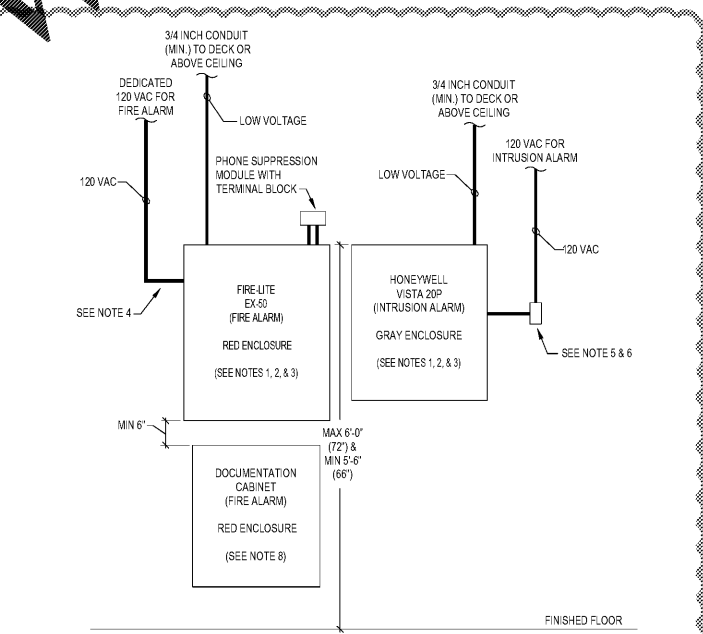
CONDUCTOR TYPE:	CIRCUIT DESIGNATION:
D = 18/4 TP	AN = ANNUNCIATOR KEYPAD CIRCUIT
E = 18/2 TP	AV = AUDIBLE/VISUAL NOTIFICATION CIRCUIT
F = 14/2 TP	DI = INITIATION DATA CIRCUIT
G = AS REQ'D BY MANF	PW = LOW VOLTAGE POWER CIRCUIT
H = 18/2 WET LOCATION	RC = RELAY CONTROL CIRCUIT
J = 14/2 WET LOCATION	RT = REMOTE TEST STATION POWER
	SU = SUPERVISORY CIRCUIT
	ZN = INITIATION ZONE CIRCUIT

— CONDUCTOR TYPE
 — CIRCUIT DESIGNATION
 — CIRCUIT NUMBER

SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE A DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.

FIRE ALARM MATRIX

	ACTIVATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL	ANNUNCIATES ALARM CONDITION AT FIRE ALARM ANNUNCIATOR STATION	TRANSMITS POINT SPECIFIC ALARM SIGNAL TO APPROVED REMOTE SUPERVISING STATION	ACTIVATES SUPERVISORY CONDITION AT FIRE ALARM ANNUNCIATOR STATION	ANNUNCIATES SUPERVISORY CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR STATION	ACTIVATES TROUBLE CONDITION AT FIRE ALARM ANNUNCIATOR STATION	ANNUNCIATES TROUBLE CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR STATION	TRANSMITS TROUBLE SIGNAL TO APPROVED REMOTE SUPERVISING STATION	ACTIVATES INTERIOR ADDRESSABLE VISUAL NOTIFICATION APPLIANCES	ACTIVATES INTERIOR ADDRESSABLE VISUAL NOTIFICATION APPLIANCES	ACTIVATES INTERIOR ADDRESSABLE VISUAL NOTIFICATION APPLIANCES
MANUAL PULL STATIONS											
- ADJACENT FAAN											
- SERVICE BELL											
SMOKE DETECTION DEVICES											
- ABOVE FACP											
- AIR HANDLING UNIT - RETURN AND SUPPLY SIDE											
HEAT DETECTION DEVICES											
- AREA DETECTION											
LOSS OF PRIMARY POWER AT THE FACP											
ABNORMAL CIRCUIT (OPEN, GROUND FAULT, SHORT) OR DEVICE											



NOTES:

- LOCATE THE FIRE ALARM CONTROL PANEL, INTRUSION ALARM CONTROL PANEL AND DOCUMENTATION IN THE CONFIGURATION SHOWN ABOVE. IF THIS LAYOUT CAN NOT BE FOLLOWED, CONTRACTOR SHALL IMMEDIATELY BRING TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND FIRE PROTECTION ENGINEER (CQ) FOR RESOLUTION.
- VERIFY THE CONTROL PANEL LAYOUT WITH THE OWNER'S REPRESENTATIVE AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- THE CONTROL PANELS SHALL BE LOCATED ON A BACKBOARD. THE BACKBOARD IS PROVIDED AND INSTALLED BY OTHERS.
- PROVIDE HARDWIRED CONNECTIONS TO THE FIRE ALARM CONTROL PANEL UTILIZING THE DEDICATED 120 VAC FIRE ALARM CIRCUIT.
- PROVIDE A DB004 ENCLOSURE FOR THE INTRUSION DUPLEX RECEPTACLE. COORDINATE INSTALLATION OF DUPLEX RECEPTACLES WITH THE ELECTRICAL CONTRACTOR CONNECTED TO A 120 VAC CIRCUIT FOR THE INTRUSION ALARM SYSTEM. REFER TO THE DB004 TRANSFORMER ENCLOSURE INSTALLATION INSTRUCTIONS FOR FURTHER DETAIL.
- PROPERLY SECURE AND SCREW THE INTRUSION ALARM CONTROL PANEL TRANSFORMER INTO DUPLEX RECEPTACLES TO PREVENT UNAUTHORIZED PERSONNEL FROM UNPLUGGING.
- ALL CABLING INDICATED IN THIS DETAIL SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED.
- PROVIDE A DOCUMENTATION CABINET ADJACENT TO THE FIRE ALARM CONTROL PANEL TO HOUSE ALL SYSTEM DOCUMENTS IN ACCORDANCE WITH NFPA 72. SYSTEM DOCUMENTS SHALL INCLUDE (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 AUTHORIZED PERSONNEL ONLY AND PROTECTED FROM PUBLIC ACCESS.

TYPICAL CONTROL PANEL LAYOUT
NOT TO SCALE

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Firestone COMPLETE AUTO CARE

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NEW FCAC STORE
2019 - JANUARY - SMALL ER
S. AIRLINE HWY NEAR E. CORVIEW ST
GONZALES, LA

BID SET
11.19.19

DAVID J. BURKHART
LICENSE NO. 23242
PROFESSIONAL ENGINEER
15/11/19

FIRE PROTECTION ENGINEER OF RECORD:
DAVID J. BURKHART, PE
LICENSE NO. 23242

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CORPORATE CERTIFICATE OF AUTHORITY NO. EP2987

ISSUE BLOCK

NO.	DATE	DESCRIPTION
1	11/11/19	CS# 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 PLAN AND MATRIX

SHEET NUMBER:
FA1