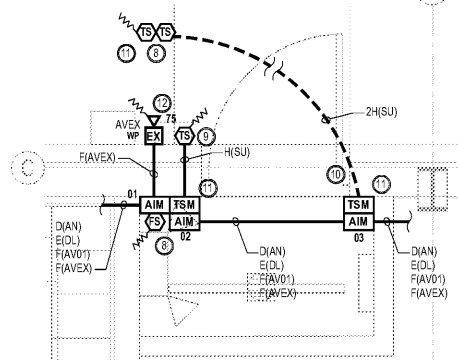
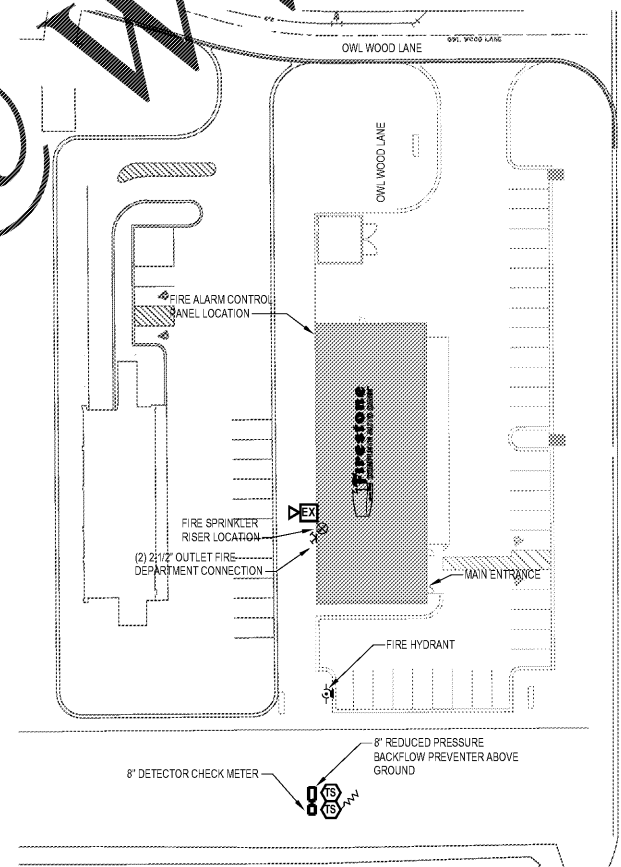


FIRE ALARM PLAN
SCALE 1/8"=1'-0"



ENLARGED FIRE RISER ROOM FIRE ALARM PLAN
SCALE 1/2"=1'-0"

FIRE ALARM MATRIX		ACTIVATES FIRE ALARM CONTROL PANEL	ACTIVATES FIRE ALARM ANNUNCIATOR	ACTIVATES FIRE ALARM CONTROL PANEL	ACTIVATES FIRE ALARM ANNUNCIATOR	ACTIVATES FIRE ALARM CONTROL PANEL	ACTIVATES FIRE ALARM ANNUNCIATOR	ACTIVATES FIRE ALARM CONTROL PANEL	ACTIVATES FIRE ALARM ANNUNCIATOR
FIRE SPRINKLER SYSTEMS									
- WATERFLOW SWITCHES									
- CONTROL VALVE TAMPER SWITCHES									
- EXTERIOR BACKFLOW AND WALL PIV CONTROL VALVE TAMPER SWITCHES									
MANUAL PULL STATION									
- ADJACENT TO THE FACP									
SMOKE DETECTION DEVICES									
- ABOVE FACP									
- AIR HANDLING UNIT - RETURN SIDE									
LOSS OF PRIMARY POWER AT THE FACP									
ABNORMAL CIRCUIT (OPEN, GROUND FAULT, SHORT) OR DEVICE									



FIRE ALARM SITE PLAN
SCALE 1"=40'

- SCOPE OF WORK**
- A DEDICATED FUNCTION FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT THE BRIDGESTONE.
 - THE FIRE ALARM SYSTEM SHALL REPORT GENERAL ALARM, SUPERVISORY, AND TROUBLE SIGNAL TO A REMOTE SUPERVISING STATION.
 - THE FIRE ALARM SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - ONE (1) INTERIOR AUDIBLE/VISUAL WITHIN THE SHOWROOM
 - ONE (1) EXTERIOR AUDIBLE/VISUAL APPLIANCE ABOVE THE FIRE DEPARTMENT CONNECTION
 - ONE (1) MANUAL PULL STATION WITH PROTECTIVE COVER ADJACENT TO THE FAAN
 - ONE (1) SMOKE DETECTOR ABOVE THE FACP
 - DUCT DETECTORS IN THE RETURN SIDE OF RTU GREATER
 - REMOTE TEST STATIONS FOR EACH DUCT DETECTOR
 - SHUTDOWN THE AFFECTED RTU
 - FIRE ALARM ANNUNCIATOR ADJACENT TO THE FRONT ENTRANCE
 - POWER-LIMITED FIRE ALARM CABLING
 - MONITORING OF THE FIRE SPRINKLER CONTROL VALVES AND WATERFLOW SWITCHES
 - MONITORING OF THE EXTERIOR BACKFLOW AND WALL PIV CONTROL VALVE TAMPER SWITCHES

- PROJECT INFORMATION**
- PROJECT NAME: BRIDGESTONE CANE BAY, SOUTH CAROLINA
 LOCATION: STATE ROAD 176 AND PALMETTO WALK DRIVE CANE BAY, SC 29483
- CONSTRUCTION TYPE: V-B
 SQUARE FOOTAGE: 6,116 SQ.FT. 1-STORY
 FIRE PROTECTION: SPRINKLERED BUILDING
 BUILDING OCCUPANCY: MIXED USE MERCANTILE (SHOWROOM, INVENTORY AND SERVICE AREA)
 OCCUPANT LOAD: 1 PERSONS
 SYSTEM TYPE: DEDICATED FUNCTION FIRE ALARM SYSTEM

- APPLICABLE CODES**
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.
- 2018 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA AMENDMENTS
 - 2018 INTERNATIONAL FIRE CODE WITH SOUTH CAROLINA AMENDMENTS
 - 2015 INTERNATIONAL MECHANICAL CODE
 - 2014 NATIONAL ELECTRICAL CODE
 - 2013 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 (C/C) 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-80)	1
DOC	DOCUMENTATION CABINET (SPACE AGE ELECTRONIC FAD ACE-11)	1
AIM	ADDRESSABLE INPUT MODULE (FIRE-LITE MMF-300)	4
ARM	ADDRESSABLE RELAY MODULE (FIRE-LITE CRF-300)	1
TSM	TRANSIENT SUPPRESSION MODULE (DITEK DTK-1LVLP-X)	2
ACTM	120 VAC TRANSIENT SUPPRESSION MODULE (DITEK DTK-1LVLP-X)	1
PSM	PHONE LINE SUPPRESSION MODULE (K-955 DUAL)	1
FPC	ADDRESSABLE ACTION MANUAL PULL STATION WITH PROTECTIVE COVER AND INTEGRAL SOUNDER (RELITE BG-12) (110V/120V COPPER II WITH SOUNDER)	1
S	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR (FIRE-LITE)	1
D	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (FACTORY PROVIDED AND POWERED BY RTU) (R = RETURN SIDE)	1
RT	REMOTE TEST STATION / ANNUNCIATOR (SYSTEM SENSOR RTS151KE1)	1
FS	FLOW SWITCH (BY OTHERS)	1
TS	TAMPER SWITCH (BY OTHERS)	3
AV XX	CEILING MOUNTED RED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (SYSTEM SENSOR PC2RL)	1
EX XX	WALL MOUNTED RED EXTERIOR AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (WP = WEATHERPROOF) (SYSTEM SENSOR P22K)	1
---	FIRE ALARM CONDUCTORS LISTED FOR WET LOCATION IN UNDERGROUND CONDUIT (1 INCH MINIMUM)	
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	DL = 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: F(AV01)
 CIRCUIT DESIGNATION: F(AV01)
 CIRCUIT NUMBER: 1

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.

CODE CONSULTANTS, INC.
 2043 WOODLAND PKWY, SUITE 300
 ST. LOUIS, MISSOURI 63146-4235
 314-991-2633
 www.codeconsultants.com

Firestone
 COMPLETE AUTO CARE

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NEW FCAC STORE
 2020 ER
 1762 STATE RD
 SUMMERVILLE, SC

FIRE PROTECTION ENGINEER OF RECORD:
 JACOB P. HEMKE, PE
 LICENSE NO. 29399

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 2043 WOODLAND PKWY, SUITE 300
 ST. LOUIS, MO 63146-4235
 PHONE: 314-991-2633
 CORPORATE CERTIFICATE OF AUTHORITY NO. 2751

ISSUE BLOCK

NO.	DATE	REV #
1	01/06/20	

PROPERTY NO.: 317910
 6 DIGIT NO.: 799862
 4 DIGIT NO.: 013K
 AOR PROJECT NUMBER: 1955867
 TO PERMIT: DATE: 12-20-19
 TO BID: DATE: ##-##-##

SHEET TITLE:
FIRE ALARM PLAN AND MATRIX

SHEET NUMBER:
FA1