

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

Order Plans

**FIRE ALARM KEYED NOTES (THIS SHEET ONLY)**

- COORDINATE CONNECTIONS TO DEDICATED 120 VAC POWER CIRCUITS. THE DEDICATED CIRCUIT DISCONNECT SHALL BE RED IN COLOR, AND LABELED "FIRE ALARM CIRCUIT". IDENTIFY THE LOCATION OF THE CIRCUIT DISCONNECT AT THE FIRE ALARM CONTROL PANEL (FACP). ALL FIRE ALARM CIRCUIT BREAKERS SHALL BE CLEARLY MARKED AND MECHANICALLY SECURED TO PREVENT ANY UNAUTHORIZED TAMPERING. COORDINATE EXACT MOUNTING LOCATIONS OF CONTROL PANEL WITH THE GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
- PROVIDE TWO (2) MEANS OF SIGNAL TRANSMISSION IN ACCORDANCE WITH NFPA 72. THE PRIMARY MEANS OF TRANSMISSION SHALL UTILIZE A DEDICATED PHONE LINE. THE SECONDARY SHALL UTILIZE A PHONE LINE CONFIGURED WITH LINE SEIZURE. PROVIDE CABLES FROM TELEPHONE D-MARK TO FIRE ALARM SYSTEM DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT). COORDINATE ALL PROGRAMMING, POINT-SPECIFIC SIGNALS TRANSMISSION AND CONNECTIONS WITH DOLLAR TREE'S OFF-SITE MONITORING COMPANY.
- PROVIDE A DOCUMENTATION CABINET (RED ENCLOSURE) 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.
- EXACT MOUNTING LOCATION OF THE FIRE ALARM ANNUNCIATOR SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND AHJ PRIOR TO INSTALLATION.
- MOUNT SMOKE DETECTOR ON THE BOTTOM OF SUSPENDED CEILING/DECK (NOT BOTTOM OF STRUCTURE) LOCATED MORE THAN THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AND AS INDICATED IN NFPA 72. THE SMOKE DETECTOR AND FIRE ALARM CABLING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND THE NATIONAL ELECTRICAL CODE.
- PROVIDE A MANUAL PULL STATION WITHIN 5 FEET OF THE EXTERIOR AND ACCORDANCE WITH NFPA 72.
- CONFIGURE THE DUCT SMOKE DETECTOR TO UTILIZE THE AUXILIARY TROUBLE CONTACTS OF THE DUCT SMOKE DETECTOR TO SHUNT DOWN THE RTU THROUGH THE INDIVIDUAL RTU CONTROL. PROVIDE IMMEDIATE WEATHER-RESISTANT RELAYS FOR CONNECTIONS TO HVAC CONTROL. PROVIDE CABLES AND WIRING CONNECTIONS TO HVAC CONTROL TERMINALS TO HVAC CONTROLS ARE MECHANICALLY SECURED TO THE CONTRACTOR.
- PROVIDE AN ADDRESSABLE INPUT MODULE FOR MONITORING OF THE SUPPLY AND RETURN DUCT SMOKE DETECTORS (FACTORY INSTALLED). PROVIDE CONNECTIONS TO THE ALARM AND TROUBLE CONTACTS TO INITIATE WITHOUT BEING AFFECTED BY THE STATUS OF THE TROUBLE CONTACTS.
- PROVIDE A REMOTE TEST STATION/ANNUNCIATOR FOR EACH DUCT SMOKE DETECTOR. PROVIDE ANY REQUIRED POWER CABLES CONNECTIONS TO DETECTORS AND REMOTE TEST STATION/ANNUNCIATOR. MOUNT THE REMOTE TEST STATION/ANNUNCIATOR ON THE NEAREST WALL OR COLUMN. COORDINATE EXACT MOUNTING LOCATIONS WITH THE GENERAL CONTRACTOR, OWNER, AND THE AHJ PRIOR TO INSTALLATION.

**GENERAL PROGRAMMING NOTES**

- CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATIONAL PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN SHOP DRAWING SUBMITTAL.
- COORDINATE SPECIFIC ALPHANUMERIC DESCRIPTIONS WITH THE OWNER PRIOR TO SYSTEM PROGRAMMING.

**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 OR U400 SERVICES 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.

**APPLICABLE CODES**

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.

- 2017 FLORIDA BUILDING CODE, 6TH EDITION
- 2017 FLORIDA FIRE PREVENTION CODE, 6TH EDITION
- 2017 FLORIDA MECHANICAL CODE
- 2014 NATIONAL ELECTRICAL CODE
- 2016 EDITION NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
- 2015 EDITION NFPA 101 LIFE SAFETY CODE

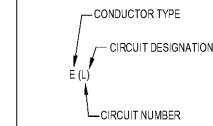
CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF FIRE PROTECTION ENGINEER (CC) FOR RESOLUTION.

FIRE ALARM SYMBOL KEY		QTY.
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL (SILENT KNIGHT 6700) (INTEGRAL DACT)	1
FAAN	ADDRESSABLE FIRE ALARM ANNUNCIATOR (SILENT KNIGHT 5860R)	1
DOC	DOCUMENTATION CABINET (SPACE AGE SSU00665)	1
S <sub>XX</sub>	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR (SILENT KNIGHT SK-PHOTO) (XX = POINT ADDRESS)	19
D <sub>RS</sub>	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (CONVENTIONAL) (PROVIDED AND INSTALLED BY OTHERS AND POWERED BY RTU) (R = RETURN SIDE) (S = SUPPLY SIDE)	8
RT	REMOTE TEST STATION / ANNUNCIATOR (SYSTEM SENSOR RTS2)	4
AIM <sub>XX</sub>	ADDRESSABLE INPUT MODULE (SILENT KNIGHT SK-MON) (XX = POINT ADDRESS)	8
F <sub>XX</sub>	ADDRESSABLE MANUAL PULL STATION (SILENT KNIGHT SK-L-DA) (XX = POINT ADDRESS)	3
AV <sub>XX</sub>	CEILING MOUNTED ADDRESSABLE VISUAL APPLIANCE (XX = CANDELA RATING) (SYSTEM SENSOR PC2L)	7
AV <sub>XX</sub>	CEILING MOUNTED ADDRESSABLE VISUAL APPLIANCE (XX = CANDELA RATING) (SYSTEM SENSOR SCL)	5
	FIRE ALARM PLENUM RATED CONDUCTORS (RED IN COLOR)	
	END OF LINE RESISTOR	
NC	NOT CODE REQUIRED	

**WIRING LEGEND**

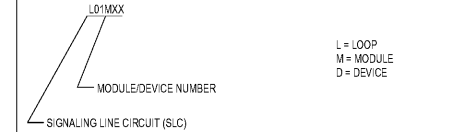
**CONDUCTOR TYPE:**  
D = 144 TP FPL SHIELDED  
E = 182 TP FPL  
F = 142 TP FPL  
G = AS REQ'D BY MANF.  
H = 182 WET LOCATION

**CIRCUIT DESIGNATION:**  
L = INITIATION DATA CIRCUIT  
A = AUDIBLE/VISUAL NOTIFICATION CIRCUIT  
AN = ANNUNCIATOR CIRCUIT  
G = MULTIPLE SYNC CONNECTION  
SU = SUPERVISORY ZONE CIRCUIT



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.

**ADDRESSING LEGEND**



**PROJECT INFORMATION**

PROJECT NAME: DOLLAR TREE - OCOEE, FL  
FIRE PROTECTION: NON-SPRINKLERED BUILDING  
OCCUPANCY: MERCANTILE

**FIRE PROTECTION ENGINEER OF RECORD:**  
DAVID J. BURKHART, PE  
LICENSE NO. 45179

CODE CONSULTANTS, INC.  
2042 WOODLAND PKWY, SUITE 300  
ST. LOUIS, MO 63146-6205  
PHONE: 314.991-2633  
CORPORATE CERTIFICATE OF AUTHORITY NO. 1598

This item has been electronically signed and sealed by David J. Burkhardt, PE on 06/04/2019 using a digital signature.  
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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**DOLLAR TREE**  
OCOOEE, FLORIDA

REV.	DATE	BY	DESCRIPTION

PROJECT NUMBER: 19109-44  
DRAWN BY: DJS  
CHECKED BY: JBS  
ISSUE DATE: 06/04/2019

REV.	DATE	BY	DESCRIPTION

SHEET TITLE:  
FIRE ALARM PLAN

SHEET NUMBER:  
**FA-1.0**