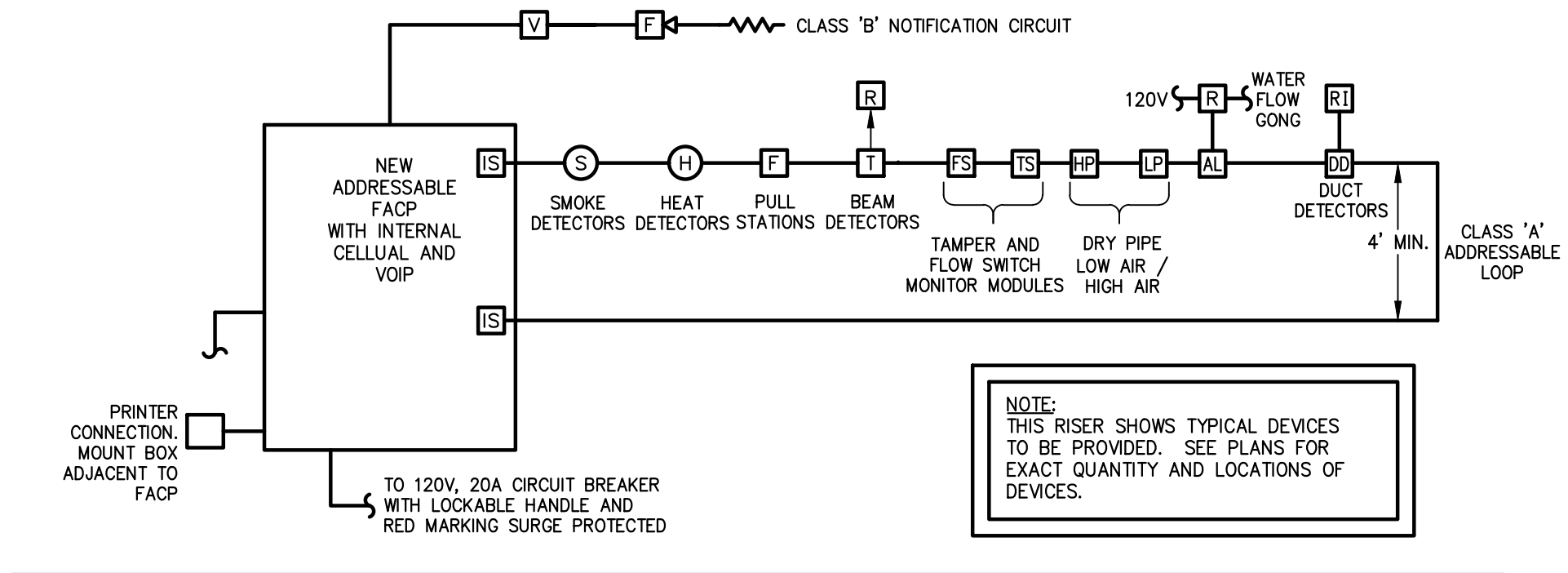
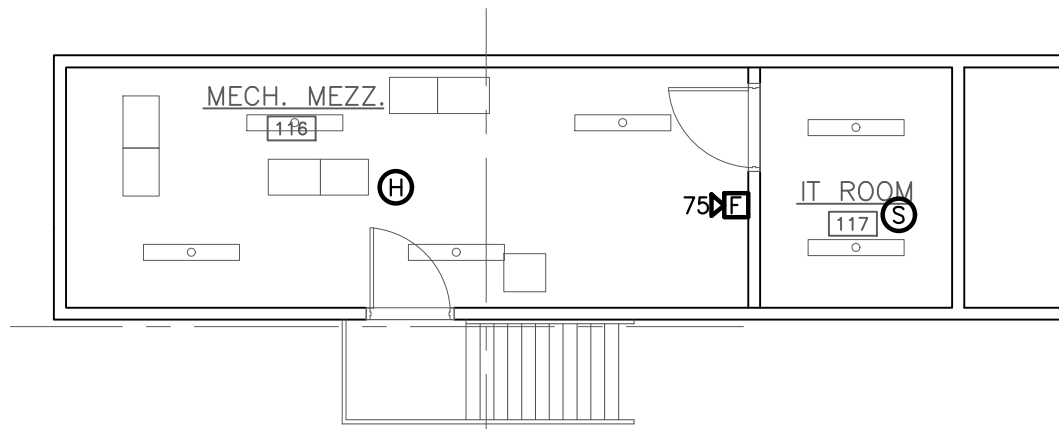


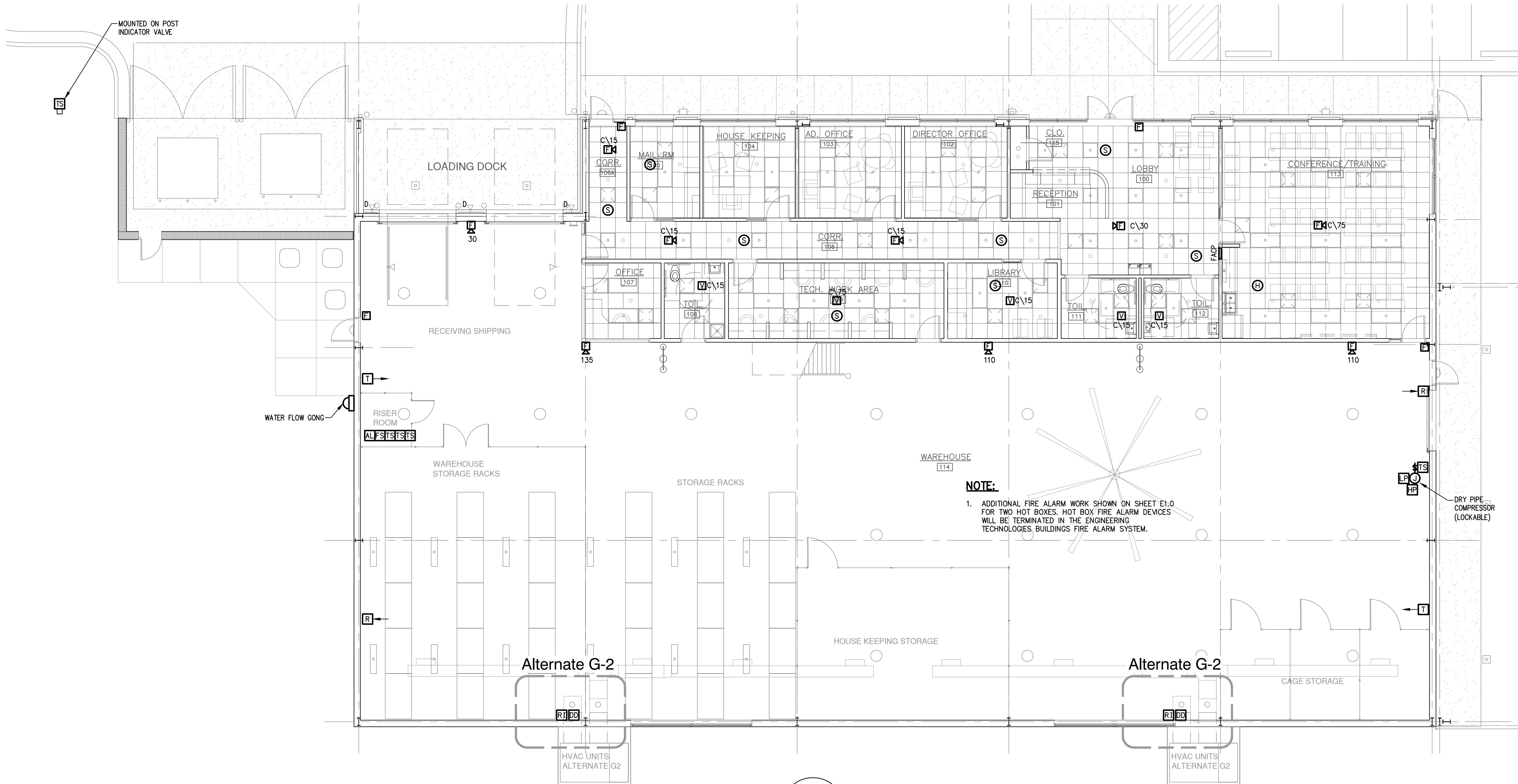
P:\PROJECTS\17-034 DURHAM TECH FACILITIES SVCS BLDG\3.0 CAD\3.20 ELECTRICAL\FA1.1.DWG Printed By: BRUCE NEWMAN - 9/12/2018 2:20 PM



3 Fire Alarm Riser  
FA1.1 SCALE: Not To Scale



2 Fire Alarm Plan - Mezzanine  
FA1.1 SCALE: 1/8" = 1'-0"



1 Fire Alarm Plan  
FA1.1 SCALE: 1/8" = 1'-0"

FIRE ALARM SYSTEM OUTPUTS																									
CONTROL UNIT ANNUNCIATION						NOTIFICATION						FIRE SAFETY CONTROL						SUPPLEMENTARY							
ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE COMMON TROUBLE SIGNAL	ACTIVATE GENERAL EVACUATION ALARM INDICATOR	ACTIVATE HORN NOTIFICATION DEVICES - ENTIRE BUILDING	ACTIVATE STROBE NOTIFICATION DEVICES - ENTIRE BUILDING	DISPLAY CHANGE OF STATUS	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	SHUT DOWN THE HVAC UNITS	ALLOW THE HVAC UNITS TO RUN					REMOTE ANNUNCIATORS TO MMIC MAIN PANEL DISPLAY							
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V				
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V				

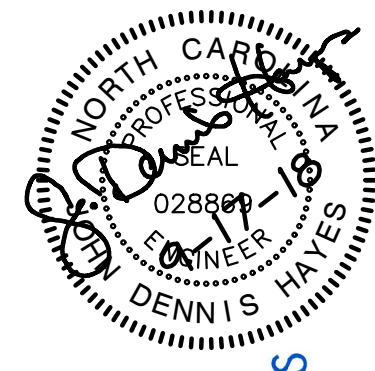
FIRE ALARM SYMBOLS	
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	SMOKE DETECTOR
	HEAT DETECTOR
	SMOKE DAMPER
	DOUBLE-ACTION PULL STATION
	HORN & STROBE (# INDICATES CANDELA)
	STROBE (# INDICATES CANDELA)
	DUCT DETECTOR
	REMOTE ALARM INDICATOR WITH KEYPAD SWITCH
	SPRINKLER SYSTEM TAMPER SWITCH MONITOR MODULE
	SPRINKLER SYSTEM FLOW SWITCH MONITOR MODULE
	ADDRESSABLE CONTROL MODULE
	ADDRESSABLE MONITOR MODULE
	WATER FLOW ALARM
	HIGH PRESSURE ALARM
	LOW PRESSURE ALARM
	MAGNETIC DOOR HOLD OPEN - INTERFACED WITH FIRE ALARM SYSTEM
	LOW TEMPERATURE ALARM
	LINEAR BEAM TRANSMITTER
	LINEAR BEAM RECEIVER
	DENOTES WEATHERPROOF DEVICE

- NOTE:
- ITEMS IN BOLD INDICATE NEW WORK. THIN LINE WEIGHT ITEMS INDICATE EXISTING CONDITIONS.
  - NOT ALL DEVICES ARE IDENTIFIED IN THE LIST ABOVE. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE ALARM RENOVATION GENERAL NOTES:

- THIS PROJECT PROVIDES A NEW ADDRESSABLE FIRE ALARM SYSTEM AS REQUIRED TO PROVIDE PARTIAL SMOKE DETECTION AND FULL AUDIBLE AND VISUAL NOTIFICATION COVERAGE.
- THE FIRE ALARM CONTRACTOR SHALL FURNISH ALL PARTS, MATERIALS AND LABOR CUSTOMARILY REQUIRED OR PROVIDED FOR A COMPLETE TURN-KEY INSTALLATION, IN ACCORDANCE WITH ALL REQUIREMENTS APPLICABLE, EVEN IF EACH NEEDED ITEM IS NOT SPECIFICALLY SHOWN OR DESCRIBED IN THE PROJECT PLANS OR SPECIFICATIONS.
- INSTALLATION OF ALL NEW FIRE ALARM DEVICES MUST COMPLY WITH NFPA 72 AND 2012 NCBC, CHAPTER 11, ACCESSIBILITY.
- FIRE ALARM CABLE SHALL BE IN CONDUIT WHERE CONCEALED IN WALLS OR ABOVE HARD CEILINGS, WHERE EXPOSED IN ELECTRICAL MECHANICAL OR UNFINISHED SPACES, AND WHERE SUBJECT TO PHYSICAL ABUSE. PLENUM RATED CABLE MAY BE ROUTED IN FREE AIR ABOVE ACCESSIBLE LAY-IN CEILINGS WHERE NEATLY ROUTED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE AND WHERE SUPPORTED BY J-HOOKS EVERY 5'.
- ALL FIRE ALARM CABLE SHALL BE TERMINATED AT DEVICE TERMINALS OR IN TERMINAL CABINETS. NO SPLICES OR T-TAPS ALLOWED.
- FIRE ALARM CONTRACTOR SHALL PERFORM VOLTAGE DROP AND BATTERY CALCULATIONS FOR ALL NEW AND MODIFIED NOTIFICATION CIRCUITS. PROVIDE ADDITIONAL CIRCUITS, BATTERIES, BOOSTER PANELS AS REQUIRED.
- FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE SET OF SUBMITTALS AND SHOP DRAWINGS FOR THE ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL SHOW EQUIPMENT, MATERIAL LIST, DEVICE IDENTIFICATION NUMBERS AND LOCATIONS, WIRING DIAGRAM, VOLTAGE DROP AND BATTERY CALCULATIONS. WIRING DIAGRAMS SHALL BE BASED ON THE PROJECT FLOOR PLANS AND SHALL INCLUDE DEVICES AND PROPOSED CONDUIT/CABLING ROUTING.
- DECIBEL LEVELS FOR ALL DEVICES SHALL COMPLY WITH THE NCPC, SECTION 907.6.2.1.1 FOR AVERAGE SOUND PRESSURE, WHICH READS AS FOLLOWS: THE AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING. THE MINIMUM SOUND PRESSURE LEVELS SHALL BE: 75 dBA IN OCCUPANCIES IN GROUPS 4 AND I-1; 90 dBA IN MECHANICAL EQUIPMENT ROOMS; AND 60 dBA IN OTHER OCCUPANCIES.
- PROVIDE UPDATED ZONE MAPS TO REFLECT SYSTEM MODIFICATIONS.

These drawings are instruments of service and as such remain the property of the architect. No copies or reproductions of these drawings are permitted without the consent of the architect. Upon completion of the work all the drawings (except the contract copies) are to be returned to the architect.  
Copyright (C) 2018



EDMONDSON ENGINEERS  
1020 Hwy 54, Suite 200, Durham, NC 27713  
Ph. 919.544.1836 Fax 919.544.2540 License: C-813

NEW FACILITIES  
SERVICE BUILDING FOR:

DURHAM  
TECHNICAL  
COMMUNITY  
COLLEGE

1700 COOPER ST.  
DURHAM, NC

SCO PROJECT  
NUMBER  
17-16794-01A  
PROJECT NUMBER  
17-034

Fire Alarm Plan

DTW  
Architects &  
Planners, Ltd.  
229 North Gregson Street  
PO Box 3436  
Durham, NC 27702  
919.317.4020

CONSTRUCTION DOCUMENTS

Revisions	
Drawn	KFF
Checked	JDH
Date	SEPTEMBER 17, 2018
Sheet	FA1.1

Of