

FMFW 1808.0003
8.8.18

FIRE ALARM SYSTEM SUBMITTAL

FOR

**ARC-MH-CHC HARNETT COUNTY
GROUP HOME #1**

89 North Willow Street – Angier, NC 27501

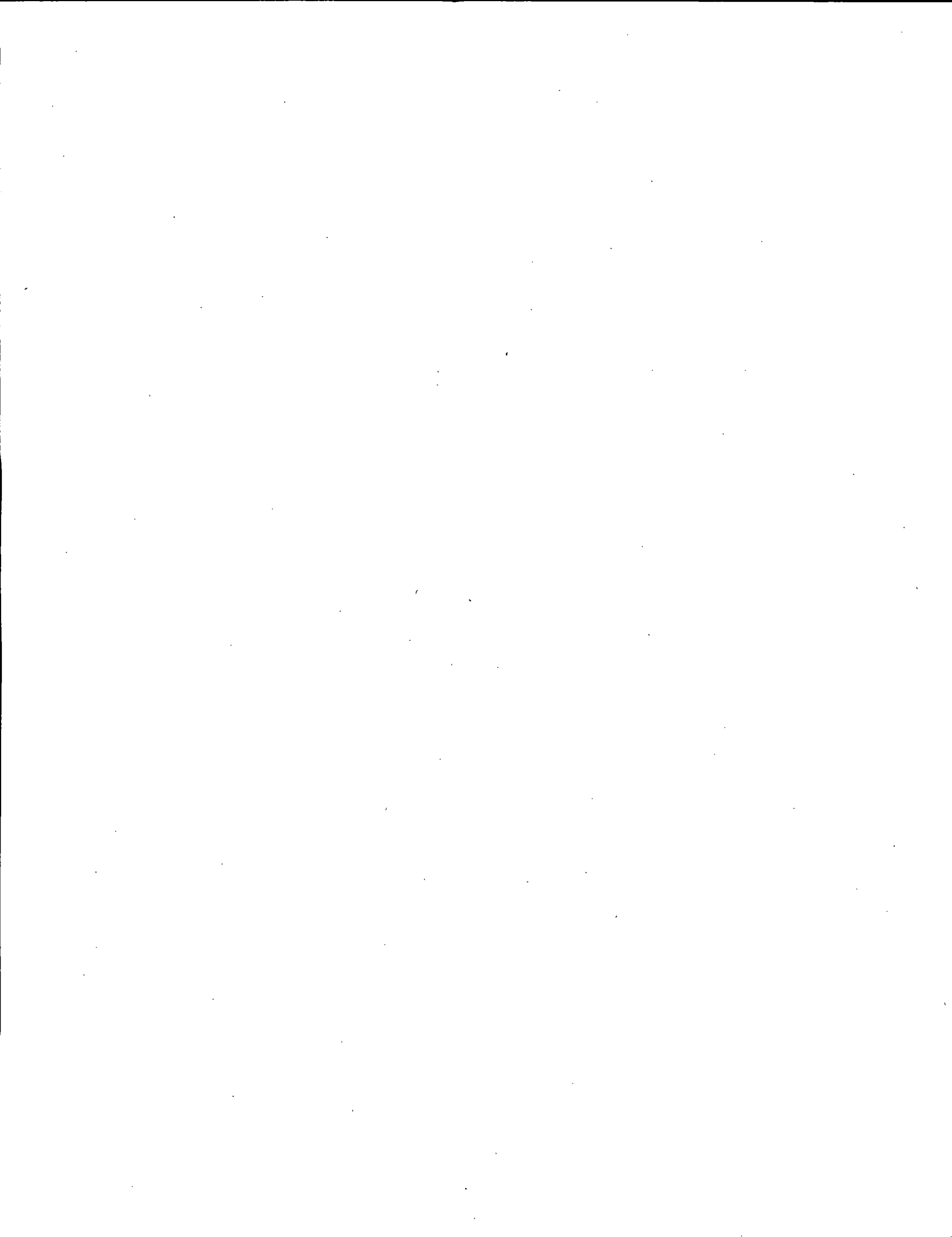
Submitted by:



Patriot Systems, LLC

7339-F W. Friendly Avenue - Greensboro, North Carolina 27410
800.371.7166 (O) 336.297.2174 (F) www.patriotssystemslc.com

Contact: Michael Wilhelm
michael.wilhelm@patriotssystemslc.com
336.953.2998 (M)



Honeywell Security

Apply UL Power Limits (Required for PS24 Power Budget Calculator)
 Commercial Burg
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Facility Information	
Location:	ARC-MH-CHC Hamett #1
Account #:	
Model:	32FB Rev 9
Engineer:	
Date:	7/31/2018

Enter Standby and Alarm Times	
Battery Standby (hours):	24
Alarm Duration (minutes):	5
Recommended Battery (AH)	9.8

VISTA:32FB

Remove Unpowered Devices

SELECTED PANEL MAXIMUM OUTPUT RATINGS

Select Panel from pulldown list:	Polling Loop (mA)	Standby Auxiliary Power (mA)	Alarm Auxiliary Power (mA)	Panel Standby (mA)	Panel Alarm (mA)	Bell #1 Output (mA)	Bell #2 Output (if used, mA)	Maximum Panel Standby Output	Maximum Panel Alarm Output	Max Battery Supported by Panel
	128	750	1000	300	470	1700	1700	1000	2300	34.4
Calculated Current Draw	0	45	160	Calculated Bell Draw		280	0	45	440	
Power Budget	128.0	705.0	840.0	Bell Power Budget		1420.0	1700.0	955.0	1860.0	
	External Bell Power Req'd (mA):						0.0	Ext. UL Power Req'd (mA):		0.0

Grayed-out device(s) are not supported by selected panel

KEYPADS/INTERFACES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
6160CR-2	1	0	45	160			45	160	0

2 WIRE & 4 WIRE SMOKE DETECTORS (except Vplex Polling Loop detectors)	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
System Sensor 2WB	12		Two-wire smoke detector current is built into the panel budgets. These fields are included to help you						

MULTI-POWER DEVICES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required

AUXILIARY POWERED DEVICES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required

Using PS24 to back up Feet = 18 AWG Solid

POLLING LOOP DEVICES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required

12V NOTIFICATION DEVICES ON BELL OUTPUT #1	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Sounder Current from Panel Bell #1	Total Sounder Current (external)
System Sensor SR & P2R	2	0		140				280	0

12V NOTIFICATION DEVICES ON BELL OUTPUT #2 (IF USED)	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Sounder Current from Panel Bell #2	Total Sounder Current (external)

12V AUX POWER AND BELL CIRCUIT WIRE RUN DATA	Units	Wire Gauge(AWG)	Ohms per 1000 ft	Alarm Current Draw (mA)	Run Length	Actual Resistance (twin leads)	Voltage At EOL	Voltage Drop (Percent)
Panel Aux Power Wire Run (twin lead)			5.29	180.00	30	0.32	11.95	0.42
Panel Bell 1 Wire Run (twin lead)			8.08	280.00	85	1.37	11.62	3.21
Panel Bell 2 Wire Run (twin lead)			8.08	0	0	0.00	12.00	0.00

PS24 Power Supply

Battery & Power Budget Calculator
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Standby/Alarm Durations (from top)	
Battery Standby (hours):	24
Alarm Duration (minutes):	5
Required Capacity (AH)	1.059
Use TWO identical batteries w/ this AH capacity	7.0

PS24 POWER SUPPLY MODULE, MAXIMUM CAPACITIES

Panel 12V Standby (mA)	Panel 12V Alarm (mA)	Output A Standby (mA)	Output A Alarm (mA)	Output B Standby (mA)	Output B Alarm (mA)	PS24 PC Board (mA)	Maximum Total Standby Output	Maximum Total Alarm Output	Max. Battery Capacity
345	910	570	1700	570	1700	40	610	4180	34.4
0.0	0.0	0	0	0	0	40	40	40	
345.0	910.0	570.0	1700.0	570.0	1700.0		570.0	4140.0	34.4

Equivalent panel load @ 24V
 (converted to 12VDC from 24V full-wave)
 Power Budget

24V NOTIFICATION APPLIANCES	Enter Quantity	Which PS24 Output?	Device Standby Load (mA)	Device Alarm Load (mA)	Subtotal A Standby	Subtotal A Alarm	Subtotal B Standby	Subtotal B Alarm
Enter Device Names & Specifications								

24V BELL CIRCUIT WIRE RUN DATA	Units	Wire Gauge(AWG)	Ohms per 1000 ft	Total Alarm Current Draw (mA)	Run Length	Actual Resistance (twin leads)	Voltage At EOL	Voltage Drop (Percent)
PS24 Output A Wire Run (twin lead)			0.00	0.00	0	0.00	24.00	0.00
PS24 Output B Wire Run (twin lead)			0.00	0.00	0	0.00	24.00	0.00



TOWN OF ANGIER
RESIDENTIAL PERMIT

55 NORTH BROAD ST WEST ANGIER, NC 27501-0278
Phone: 919-639-2071 FAX: 919-639-6130

DATE ISSUED: 08/03/2018

PERMIT #: 2018-000217

LOCATION	DISTRICT	TAX MAP PARCEL#
	R-10	04067420020019
89 NORTH WILLOW STREET	LOT	ZONING DISTRICT
		R-10
OWNER: PATRIOT SYSTEMS, LLC		TOTAL VALUATION
CONTRACTOR:		\$ 0

SUBCONTRACTOR ID/NAME

SUBCONTRACTOR TYPE

TYPE CONSTRUCTION: RESIDENTIAL UPFIT

OCCUPANCY GROUP: SINGLE FAMILY DWELLING

<u>FEE CODE</u>	<u>FEE</u>
LAND USE RESIDENTIAL	35.00
TOTAL PAID: 35.00 **PAID IN FULL**	TOTAL AMOUNT: 35.00

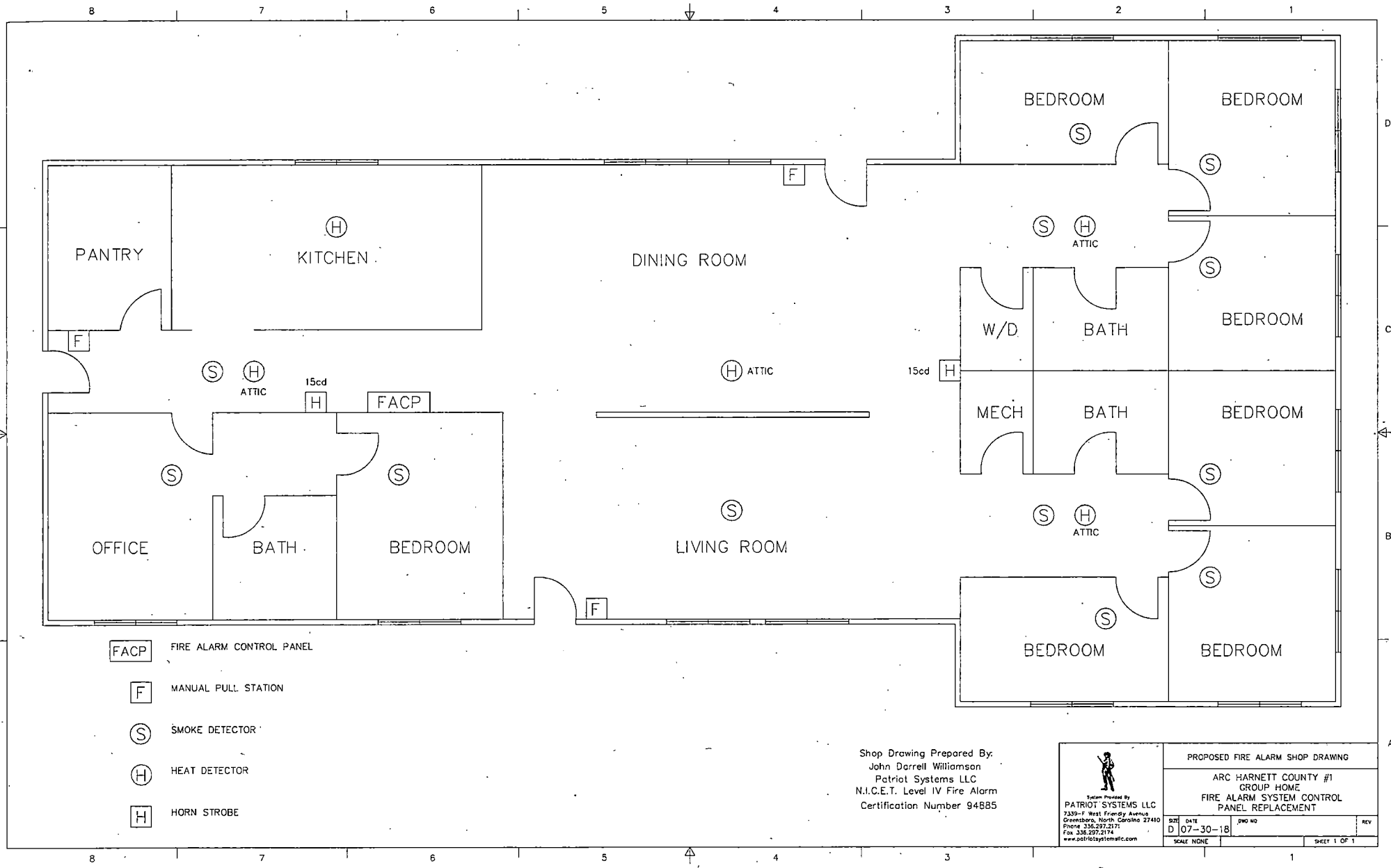
REMARKS: ZONING PERMIT FOR REPLACING FIRE ALARM SYSTEM

(SIGNATURE OF CONTRACTOR/OWNER)

Dean Johnson
(ISSUED BY)

(DATE)

8/3/18
(DATE)



- FACP FIRE ALARM CONTROL PANEL
- F MANUAL PULL STATION
- S SMOKE DETECTOR
- H HEAT DETECTOR
- H HORN STROBE

Shop Drawing Prepared By:
 John Darrell Williamson
 Patriot Systems LLC
 N.I.C.E.T. Level IV Fire Alarm
 Certification Number 94885


 Design Provided By
PATRIOT SYSTEMS LLC
 7339-F West Friendly Avenue
 Greensboro, North Carolina 27410
 Phone: 336.297.2174
 Fax: 336.297.2174
 www.patriotsystemsllc.com

PROPOSED FIRE ALARM SHOP DRAWING			
ARC HARNETT COUNTY #1 GROUP HOME			
FIRE ALARM SYSTEM CONTROL PANEL REPLACEMENT			
DATE	D 07-30-18	JOB NO	REV
SCALE NONE		SHEET 1 OF 1	

