

CP-4 BLDG - BENTONVILLE, AR - FIRE ALARM

UFS JOB NO: U1247 IN CONDUIT OPEN WIRING POWER LIMITED NON POWER LIMITED

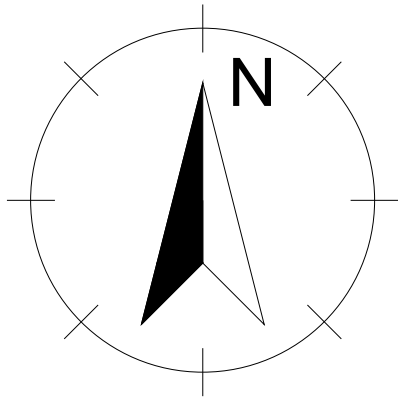
OWNER: THADEN SCHOOLS 809 SE C STREET BENTONVILLE, AR 72712

GENERAL CONTRACTOR MULTI-CRAFT CONTRACTORS, INC. P.O. BOX 1760 SPRINGDALE, AR 72764

OCCUPANCY TYPE: EDUCATIONAL E - 6 OR MORE STUDENTS

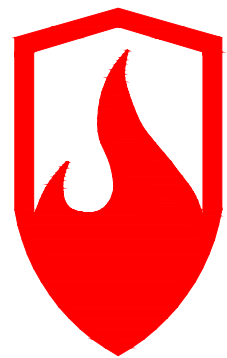
APPLICABLE CODES: 2012 AR FIRE PREVENTION CODES: VOL I "FIRE" BASED ON THE 2012 IFC W/ STATE REVISIONS VOL II " BUILDING" BASED ON THE 2012 IBC W/ STATE REVISIONS 2014 NATIONAL ELECTRICAL CODE (NFPA 70)

MONITORING COMPANY UNITED FIRE SUPPRESSION



ARKANSAS AUTOMATIC SPRINKLERS

ARKANSAS UNITED FIRE SUPPRESSION



FIRE PROTECTION DESIGN & INSTALLATIONS

FA SYSTEM NOTES

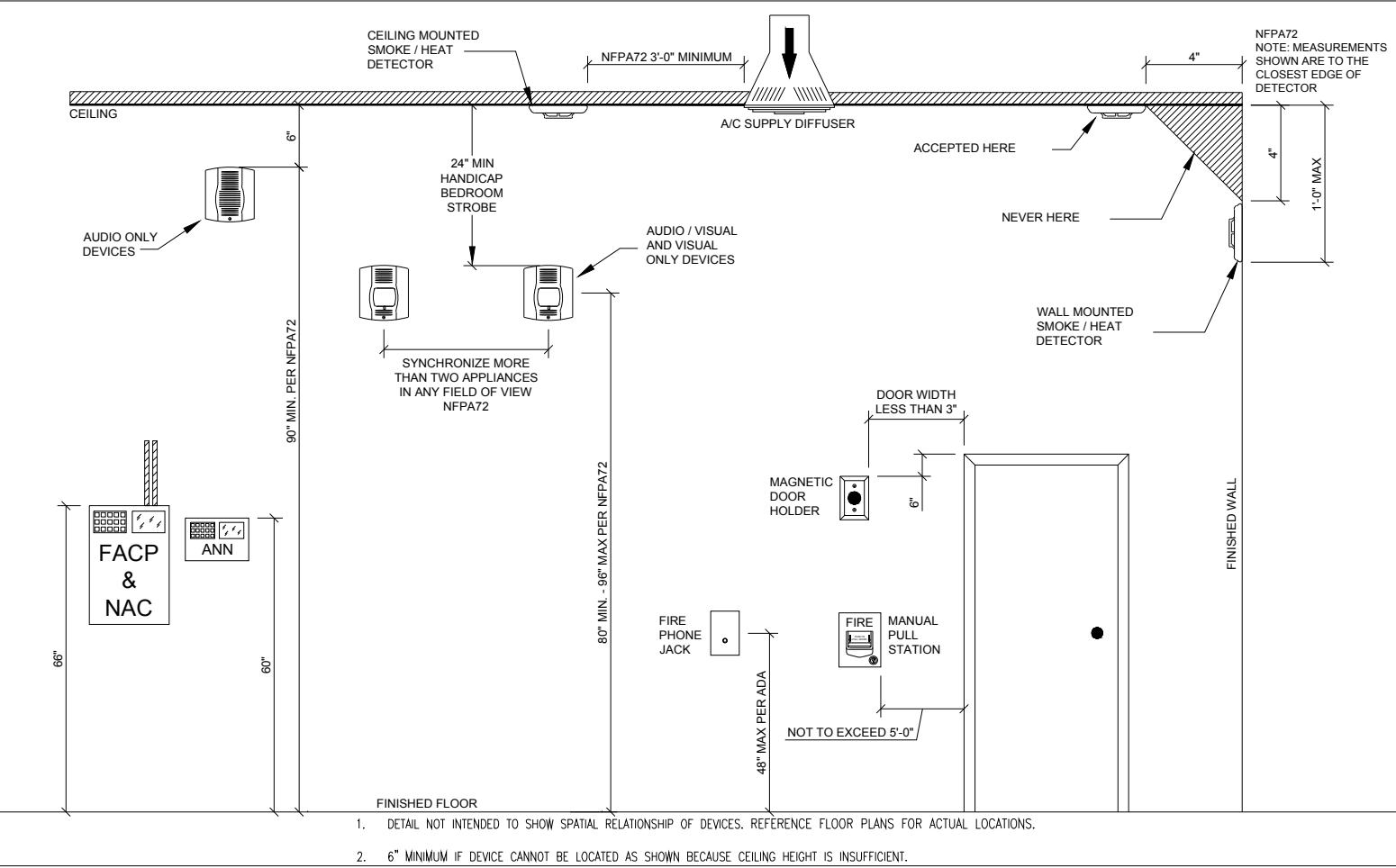
1. SYSTEM IS DESIGNED IN ACCORDANCE WITH NFPA 72, UFC, NEC AND IBC.
2. TWO (2) TELEPHONE LINES TO BE PROVIDED, BY OTHERS, AT THE PREMISE FOR CONNECTION TO FACP TO CENTRAL STATION. UFS TO SUPPLY CONNECTION FROM DMARC LOCATION TO FACP. MONTHLY COST OF PHONE LINES IS NOT INCLUDED IN COST OF FIRE ALARM SYSTEM.
3. ALL FIRE ALARM DEVICES TO BE ADDRESSABLE.
4. ALL 120VAC TO BE COORDINATED WITH, AND INSTALLED BY LICENSED ELECTRICIAN.
5. FIELD VERIFY ALL CABLE ROUTES, DEVICE LOCATIONS AND QUANTITIES OF EACH.
6. INITIATING DEVICE CIRCUITS SHALL BE CLASS B STYLE B
7. NOTIFICATION APPLIANCE CIRCUITS SHALL BE CLASS B, STYLE Y.
8. SIGNALING LINE CIRCUITS SHALL BE CLASS B, STYLE 3
9. THE FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH STATE AND LOCAL LAW.
10. FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA, IBC AND LOCAL ORDINANCES.
11. INSTALL MANUAL PULL STATION AT 48" AFF
12. FIRE ALARM CONTROL PANEL SHALL HAVE UL LISTED BATTERY BACKUP.
13. EQUIPMENT SHALL BE ADA COMPLIANT AS APPLICABLE
14. SYSTEMS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS PERTAINING TO SYSTEMS BEING INSTALLED.
15. ALL DEVICES SHALL BE MONITORED BY FIRE ALARM CONTROL PANEL
16. ALL COMPONENTS SHALL BE UL LISTED AND FM APPROVED.
17. SPRINKLER SYSTEM CONTROL VALVES AND SWITCHES SHALL BE MONITORED. INITIATION OF THE ALARM SIGNAL SHALL OCCUR WITHIN 90 SECONDS OF WATER FLOW AT THE ALARM INITIATING DEVICE WHEN FLOW OCCURS THAT IS EQUAL TO OR GREATER THAN FROM A SINGLE SPRINKLER OF THE SMALLEST ORIFICE SIZE INSTALLED IN THE SYSTEM.
18. FIRE ALARM CONTROL PANEL SHALL BE CONNECTED TO 24 HOUR CENTRAL MONITORING STATION
19. FIRE ALARM SYSTEM SHALL MONITOR HVAC DUCTS, AS SPECIFIED BY DIVISION
20. ELECTRICAL CONTRACTOR SHALL PROVIDE AND WIRE DETECTORS AS REQUIRED. MECHANICAL CONTRACTOR SHALL INSTALL DETECTORS, ELECTRICAL CONTRACTOR SHALL PROVIDE A RELAY OUTPUT TO THE HVAC CONTROL SYSTEM FOR SYSTEM SHUTDOWN.
21. FIRE ALARM ZONE INDICATOR PANEL MUST BE LOCATED AT GRADE LEVEL AT THE NORMAL POINT OF FIRE DEPARTMENT ACCESS OR AT A CONSTANTLY ATTENDED BUILDING SECURITY CONTROL CENTER. VERIFY LOCATION WITH LOCAL FIRE DEPARTMENT.
22. IN AREAS THAT HAVE CONTROLLING EQUIPMENT, NOT CONTINUOUSLY OCCUPIED, AUTOMATIC SMOKE DETECTION MUST BE PROVIDED AT EACH CONTROL UNIT(S) (I.E. FIRE ALARM CONTROL PANEL, ETC.). HEAT DETECTION IS PERMITTED IF AMBIENT CONDITIONS PROHIBIT INSTALLATION OF SMOKE DETECTION.
23. ALL DETECTION DEVICES USED TO CAUSE THE OPERATION OF HVAC SYSTEM SMOKE DAMPERS, FIRE DAMPERS, FAN CONTROL, SMOKE DOORS AND FIRE DOORS SHALL BE MONITORED FOR INTEGRITY.
24. THE FIRE ALARM CONTROL PANEL CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
25. FIRE ALARM CONDUCTORS SHALL BE UL LISTED FIRE ALARM CABLE AND PLENUM RATED FOR PLENUM SPACES.
26. SYSTEM CONDUCTORS CONCEALED IN WALLS SHALL BE RUN IN METALLIC TUBING, SYSTEM CONDUCTORS IN THE ROOM STRUCTURE SPACE AND ABOVE CEILING SHALL BE SECURED WITH GAT FASTENERS AND BRIDLE RUNGS. ANY CONDUCTOR TAPS OR SPLICES SHALL BE MADE IN METAL JUNCTION BOXES.
27. ALL VISIBLE / AUDIBLE APPLIANCES SHALL BE LOCATED AND MOUNTED PER NFPA 72

- A. IF CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE APPLIANCE SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90 INCHES AND BELOW THE FINISHED CEILING NOT LESS THAN 6 INCHES. CEILING MOUNTED OR RECESSED APPLIANCES SHALL BE PERMITTED.
- B. WALL MOUNTED VISIBLE APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR.
- C. IF COMBINATION AUDIBLE / VISIBLE APPLIANCES ARE INSTALLED, THE LOCATION OF THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF NFPA 72.
23. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN FIELD OF VIEW MUST FLASH IN SYNCHRONIZATION.
24. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. INSTALLING TECHNICIAN OR FIELD SUPERVISOR IS RESPONSIBLE FOR REVIEWING GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION.
25. ALL HOLES THROUGH FIRE RATED WALLS SHALL BE PATCHED OR PLUGGED WITH FIRE RATED ASSEMBLY AS REQUIRED BY THE CONSTRUCTION MATERIAL ENCOUNTERED AND THE SIZE OF THE HOLE.
26. COORDINATE FINAL LOCATION OF FIRE ALARM DEVICES WITH LIGHT FIXTURES, DIFFUSERS, RETURN AND SUPPLY AIR GRILLES, ETC.
27. ALL STROBES WITHIN VIEW OF ONE ANOTHER SHALL BE SYNCHRONIZED.
28. TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED PER NFPA 72. THE SUPPLIER IS NOT RESPONSIBLE FOR DUST ACCUMULATION IN SMOKE DETECTORS AND WILL NOT WARRANTEE DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
29. DO NOT RELOCATE ANY DEVICES WITHOUT AHJ / ENGINEER APPROVAL.
30. NOTE ANY DEVIATIONS FROM THESE SHOP DRAWINGS TO BE REFLECTED ON AS-BUILT DRAWINGS

BUILDING(S) SQUARE FOOTAGE:

TOTAL SQ FT: 37,970 SQ. FT

DEVICE MOUNTING HEIGHT LEGEND

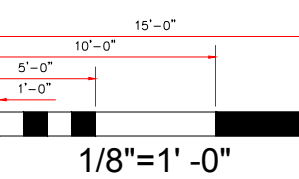


THADEN SCHOOLS CP-4 BLDG
809 SE C STREET
BENTONVILLE, AR 72712
FIRE ALARM

ORIGINAL DRAWINGS PROVIDED BY:

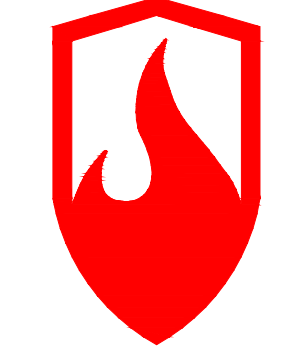
MARLON BLACKWELL ARCHITECTS

FIRE ALARM MANUFACTURER AND MODEL NUMBER:
GAMEWELL - FCI E3



LICENSING INFORMATION:

AR ALARM: CMPY001847
AR CONTRACTORS: 0026470419
AR SUPPRESSION: PF-164
AR CERT. OF REQ.: #PF-164
OK ALARM: 1862
TX FIRE ALARM: ACR-1765467



REGULATED BY THE ARKANSAS BOARD OF PRIVATE INVESTIGATORS AND PRIVATE SECURITY AGENCIES
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LITTLE ROCK, AR 72209
501-618-8600

UFS JOB NUMBER: U1247
DRAWINGS PREPARED BY: AUSTIN RAINEY

DRAWING REVIEWED BY: ROB EVATT SET
NICE1 115734
APS-1775640

DATE: 03-01-2018

UNITED FIRE SUPPRESSION

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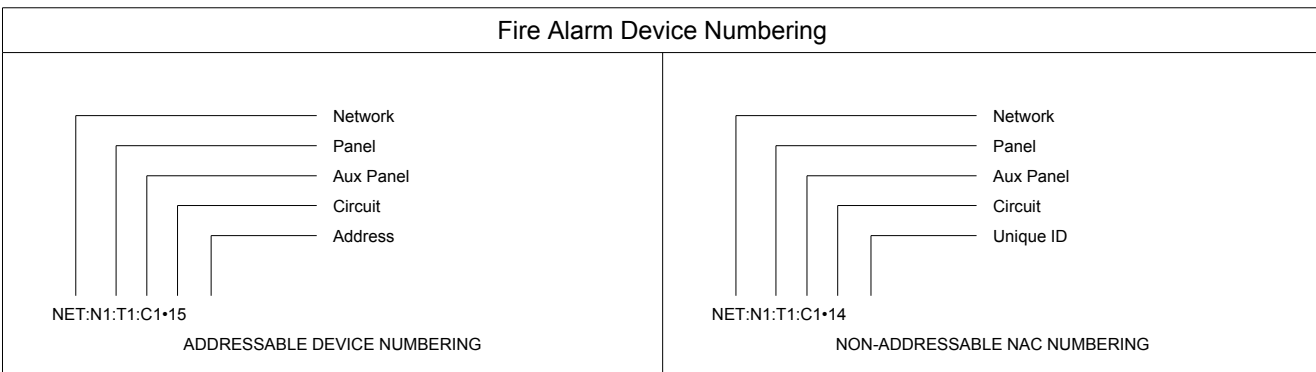
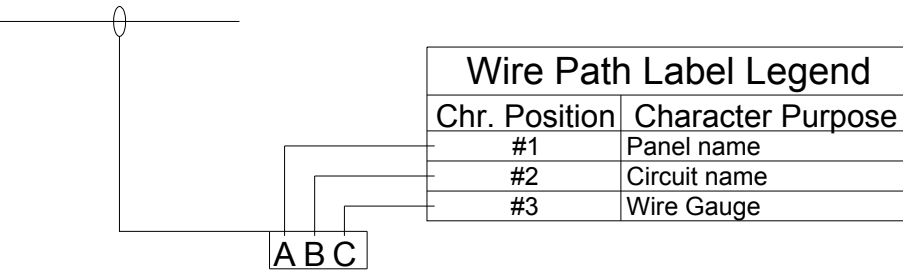
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REVISIONS
8-21-2018

FIRE ALARM TITLE SHEET

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WIRING AND DEVICE LABEL LEGEND



FIRE ALARM SEQUENCE OF OPERATION AND MATRIX

*NOTE SEQUENCE OF OPERATIONS AND MATRIX ARE GENERAL, NOT ALL ITEMS LISTED MAY BE USED**

NORMAL CONDITION:
-CONTROL PANEL WILL DISPLAY "SYSTEM NORMAL"
-RED POWER LED WILL BE ACTIVATED
-GREEN SYSTEM NORMAL LED WILL BE ACTIVATED

TROUBLE CONDITION:
-CONTROL PANEL WILL DISPLAY NUMBER AND TYPE OF TROUBLE
-CONTROL PANEL WILL BEEP
-YELLOW TROUBLE LED WILL BE ACTIVATED
-GREEN SYSTEM NORMAL LED WILL DEACTIVATE
-ACKNOWLEDGEMENT AT CONTROL PANEL WILL -SILENCE TROUBLE
-IF TROUBLE HAS NOT BEEN CORRECTED WITHIN 24 HOURS OF ACKNOWLEDGMENT, BEEP WILL REACTIVATE

TROUBLE CONDITION CORRECTED:
-PANEL WILL AUTO RESET
-YELLOW TROUBLE LED WILL DEACTIVATE
-GREEN SYSTEM NORMAL LED WILL ACTIVATE

ALARM CONDITION:
-CONTROL PANEL WILL DISPLAY NUMBER AND TYPE OF ALARM
-CONTROL PANEL WILL BEEP
-NOTIFICATION DEVICES WILL ACTIVATE
-GREEN SYSTEM NORMAL LED WILL DEACTIVATE
-RED ALARM LED WILL ACTIVATE
-ACKNOWLEDGMENT AT CONTROL PANEL WILL -SILENCE NOTIFICATION (VISIBLE WILL CONTINUE)

ALARM CONDITION CORRECTED:
-CONTROL PANEL MUST BE MANUALLY RESET
-RED LED WILL DEACTIVATE
-GREEN SYSTEM NORMAL LED WILL ACTIVATE

ACTIVATION OF A MANUAL PULL STATION, SMOKE DETECTOR, HEAT DETECTOR SHALL:
-DISPLAY SPECIFIC DEVICE AT FACP
-ACTIVATE AUDIBLE AND VISUAL NOTIFICATION
-SHUT DOWN VENTILATION*
-TRANSMIT SIGNAL TO CENTRAL STATION

ACTIVATION OF WATER FLOW SHALL:
-ALL ACTIONS AS ABOVE STATION OR DETECTOR
-ACTIVATE OUTDOOR NOTIFICATION
-NOTIFICATION SHALL NOT BE SILENCED WHILE WATER IS FLOWING AT A RATE OF FLOW EQUAL TO THAT OF A SINGLE SPRINKLER HEAD

ACTIVATION OF A DUCT SMOKE DETECTOR SHALL:
-DISPLAY SPECIFIC DEVICE AT FACP
-ACTIVATE A SUPERVISORY CONDITION
-SHUT DOWN VENTILATION
-TRANSMIT SIGNAL TO CENTRAL STATION

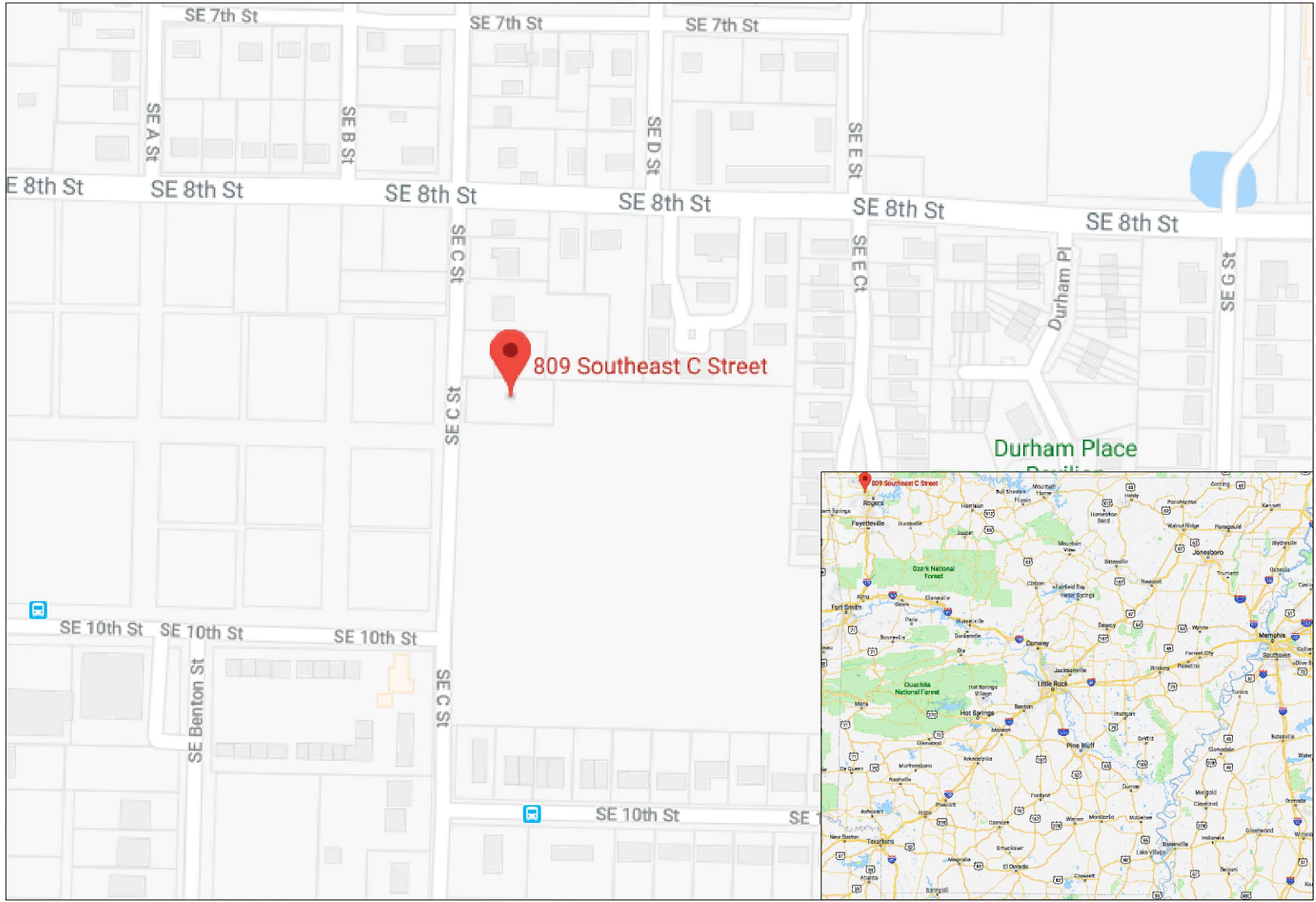
IF PROGRAMMED TO DO SO

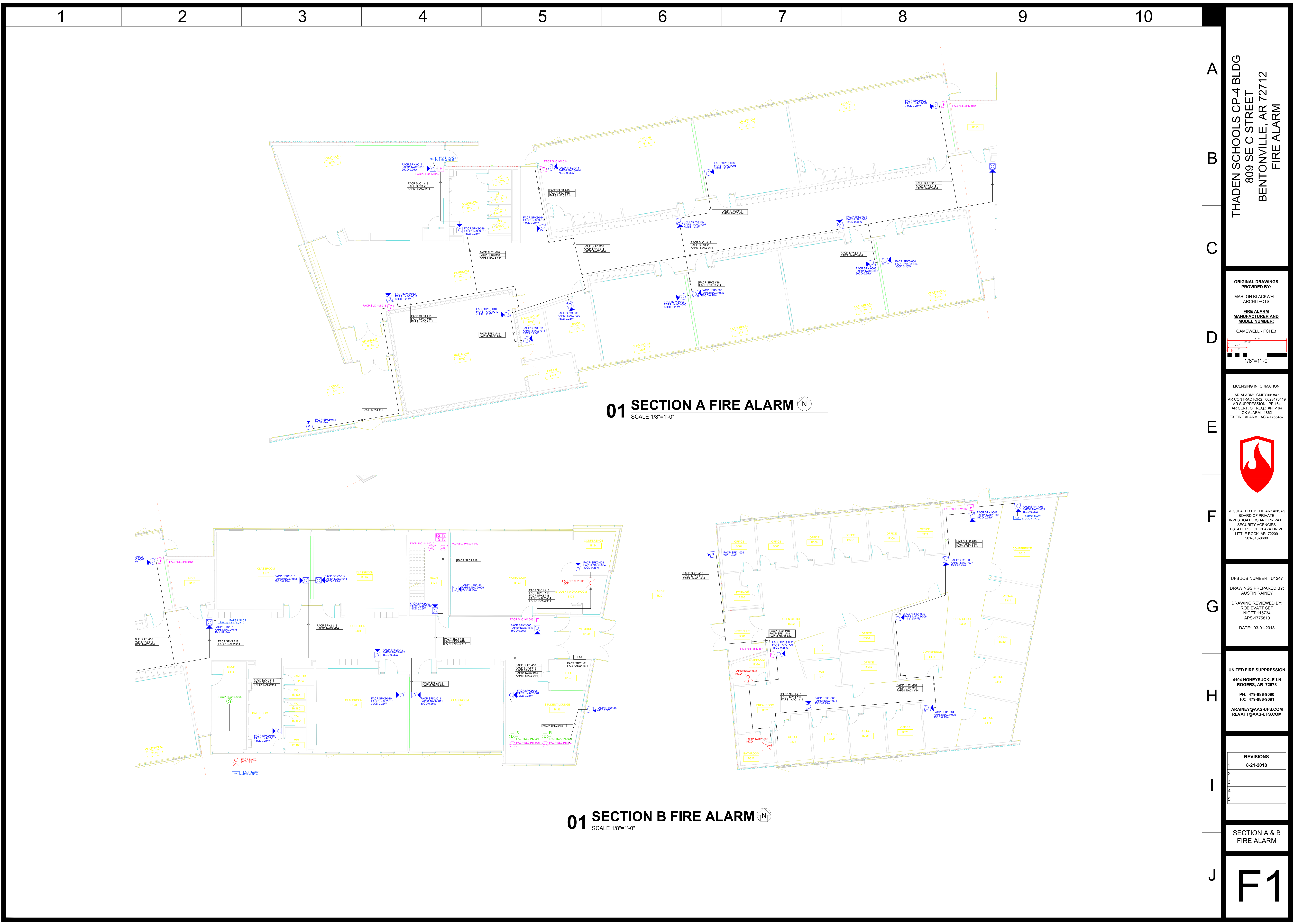
ALL SIGNAL TO BE STORED IN FACP MEMORY

SUPERVISORY CONDITIONS SHALL SUPERCEDE A TROUBLE CONDITION

ALARM CONDITIONS SHALL SUPERCEDE A SUPERVISORY CONDITION

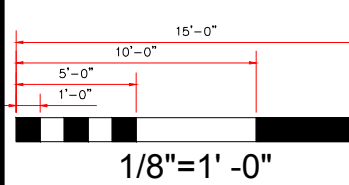
FIRE ALARM BACK BOX LEGEND				
DEVICE DESCRIPTION	BACK BOX TYPE	BACK BOX SUPPLIED BY	BACK BOX INSTALLED BY	BACK BOX MOUNTING HEIGHTS
CEILING MOUNTED SMOKE DETECTOR PART# ASD-PL2F OR DP-PHOTO	4" OCTAGON BOX WITH 1-BAR HANGER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	CEILING MOUNTED NO WITHIN 8" OF ALL FACED DRILLES
CEILING MOUNTED HEAT DETECTOR PART# ATD-PL2F OR DP-HEAT	4" OCTAGON BOX WITH 1-BAR HANGER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	CEILING MOUNTED
WALL MOUNTED MANUAL PULL STATION PART# MS-7AF, MS-7AF-01 OR DP-PULL	4-SQUARE BOX (4"x4"x1-1/2") WITH SINGLE MUD RING	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	48" AFF TO CENTER OF BOX
ISOLATION MODULE PART# IM-01, OR DP-ISO	DEEP 4-SQUARE BOX (4"x4"x2-1/8")	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	MOUNTED IN PANEL CAN
DUAL MONITOR MODULE PART# AMM-2F, OR DP-MONITOR 2	DEEP 4-SQUARE BOX (4"x4"x2-1/8")	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	WITHIN 36" OF DEVICE BEING MONITORED HEIGHT NOT REQUIRED
MONITOR MODULE PART# AMM-2F OR DP-MONITOR	DEEP 4-SQUARE BOX (4"x4"x2-1/8")	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	WITHIN 36" OF DEVICE BEING MONITORED HEIGHT NOT REQUIRED
RELAY MODULE PART# ACM-2F, OR DP-RELAY	DEEP 4-SQUARE BOX (4"x4"x2-1/8") WITH 1-BAR HANGER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	WITHIN 36" OF DEVICE BEING CONTROLLED HEIGHT NOT REQUIRED
DUCT DETECTOR PART# DDM-01-W (WEATHERPROOF)	BACK BOX NOT REQUIRED	UNITED FIRE SUPPRESSION	UNITED FIRE SUPPRESSION	DUCT MOUNTED
WALL MOUNTED STROBE ONLY PART# SWL, OR SWL-CLR-ALERT	DEEP 4-SQUARE BOX (4"x4"x2-1/8")	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	MOUNT BETWEEN 80" AND 96" AFF
CEILING MOUNTED STROBE ONLY PART# SCWL, OR SCWL-CLR-ALERT	DEEP 4-SQUARE BOX (4"x4"x2-1/8") WITH 1-BAR HANGER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	CEILING MOUNTED
WALL MOUNTED HORN STROBE PART# PWRK	DEEP 4-SQUARE BOX (4"x4"x2-1/8")	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	MOUNT BETWEEN 80" AND 96" AFF
CEILING MOUNTED HORN STROBE PART# PCWL	DEEP 4-SQUARE BOX (4"x4"x2-1/8") WITH 1-BAR HANGER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	CEILING MOUNTED
WALL MOUNTED SPEAKER PART# SPWL	DEEP 4-SQUARE BOX (4"x4"x2-1/8")	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	MOUNT BETWEEN 80" AND 96" AFF
CEILING MOUNTED SPEAKER ONLY PART# SPWCL	DEEP 4-SQUARE BOX (4"x4"x2-1/8") WITH 1-BAR HANGER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	CEILING MOUNTED
WALL MOUNTED ALERT SPEAKER/STROBE PART# SPWAL-CLR-ALERT	DEEP 4-SQUARE BOX (4"x4"x2-1/8")	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	MOUNT BETWEEN 80" AND 96" AFF
CEILING MOUNTED ALERT SPEAKER/STROBE PART# SPWCL-CLR-ALERT	DEEP 4-SQUARE BOX (4"x4"x2-1/8") WITH 1-BAR HANGER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	CEILING MOUNTED
DOOR HOLD OPEN DEVICE PART# FM-96	4-SQUARE BOX (4"x4"x1-1/2") WITH SINGLE MUD RING	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	LOCATE MARKET APPROX. 6" FROM THE DOOR JAMB AT THE DOOR, WALL, WINDOW OR SPOKE OF DOOR MOUNTED APPROXIMATELY 48" AFF TO CENTER OF DOOR FOR OPTIMUM PERFORMANCE
CONDUIT JUNCTION BOX	4-SQUARE BOX (4"x4"x1-1/2")	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	HEIGHT NOT REQUIRED
FIRE ALARM CONTROL PANEL PART# FCI, FCI-S, FCI-SL, FCI-SL-01, OR FCI-SL-01-01	SEE FA SHEETS FOR EXACT LOCATION AND DIMENSIONS	UNITED FIRE SUPPRESSION	ELECTRICAL CONTRACTOR	SEE SHEETS FA2-01 & FA2-02 FOR EXACT LOCATION AND DIMENSIONS DETAILS A-G
VOICE EVACUATION PANEL PART# VEV-01, OR VEV-01-01	SEE FA SHEETS FOR EXACT LOCATION AND DIMENSIONS	UNITED FIRE SUPPRESSION	ELECTRICAL CONTRACTOR	SEE SHEETS FA2-01 & FA2-02 FOR EXACT LOCATION AND DIMENSIONS DETAILS A-G
FIRE ALARM POWER SUPPLY PART# GFS-9, GFS-9-01, OR GFS-9-01-01	SEE FA SHEETS FOR EXACT LOCATION AND DIMENSIONS	UNITED FIRE SUPPRESSION	ELECTRICAL CONTRACTOR	SEE SHEETS FA2-01 & FA2-02 FOR EXACT LOCATION AND DIMENSIONS DETAILS A-G
VOICE EVACUATION AMPLIFIER PART# DIA2-01, OR DIA2-01-01	SEE FA SHEETS FOR EXACT LOCATION AND DIMENSIONS	UNITED FIRE SUPPRESSION	ELECTRICAL CONTRACTOR	SEE SHEETS FA2-01 & FA2-02 FOR EXACT LOCATION AND DIMENSIONS DETAILS A-G
FIRE ALARM ANNUNCIATOR PART# LCD-110, OR RA-1000	SEE FA SHEETS FOR EXACT LOCATION AND DIMENSIONS	UNITED FIRE SUPPRESSION	ELECTRICAL CONTRACTOR	SEE SHEETS FA2-02 FOR EXACT LOCATION AND DIMENSIONS DETAILS A-G
REMOTE PAGING UNIT PART# LOC	SEE FA SHEETS FOR EXACT LOCATION AND DIMENSIONS	UNITED FIRE SUPPRESSION	ELECTRICAL CONTRACTOR	SEE SHEET FA2-02 FOR EXACT LOCATION AND DIMENSIONS DETAILS A-G
DUCT DETECTOR REMOTE TEST SWITCH PART# RITS-101	4-SQUARE BOX (4"x4"x1-1/2") WITH SINGLE MUD RING	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	NEAREST ACCESSIBLE LOCATION TO DUCT DETECTOR



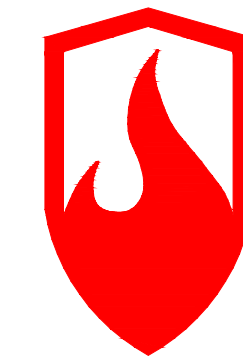


THADEN SCHOOLS CP-4 BLDG
809 SE C STREET
BENTONVILLE, AR 72712
FIRE ALARM

ORIGINAL DRAWINGS
PROVIDED BY:
MARLON BLACKWELL
ARCHITECTS
FIRE ALARM
MANUFACTURER AND
MODEL NUMBER:
GAMEWELL - FCI E3



LICENSING INFORMATION:
AR ALARM: CMFY001847
AR CONTRACTORS: 0026470419
AR SUPPRESSION: PF-164
AR CERT. OF REQ.: #PF-164
OK ALARM: 1862
TX FIRE ALARM: ACR-1765467



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AUSTIN RAINEY
DRAWING REVIEWED BY:
ROB EVATT SET
NICEI 115734
APS-1775610
DATE: 03-01-2018

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REVISIONS	
1	8-21-2018
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SECTION A & B
FIRE ALARM

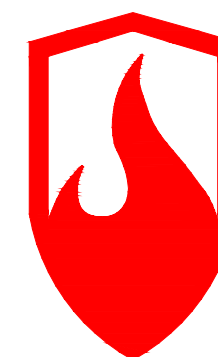
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THADEN SCHOOLS CP-4 BLDG
809 SE C STREET
BENTONVILLE, AR 72712
FIRE ALARM

ORIGINAL DRAWINGS
PROVIDED BY:
MARLON BLACKWELL
ARCHITECTS

FIRE ALARM
MANUFACTURER AND
MODEL NUMBER:
GAMEWELL - FCI E3

LICENSING INFORMATION:
AR ALARM: CMPY001847
AR CONTRACTORS: 00284704
AR SUPPRESSION: PF-164
AR CERT. OF REQ.: WPF-164
OK ALARM: 1862
TX FIRE ALARM: ACR-176546



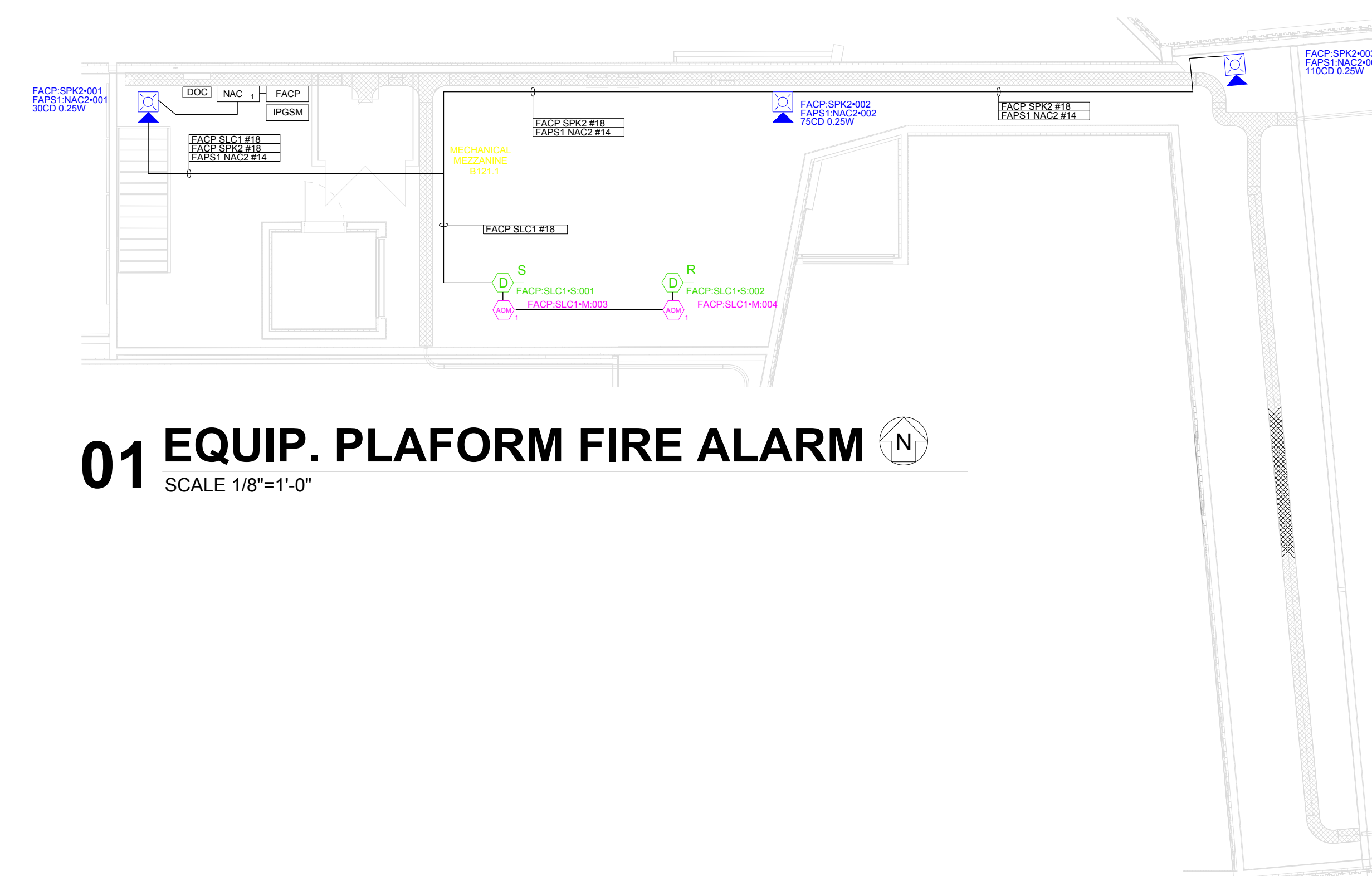
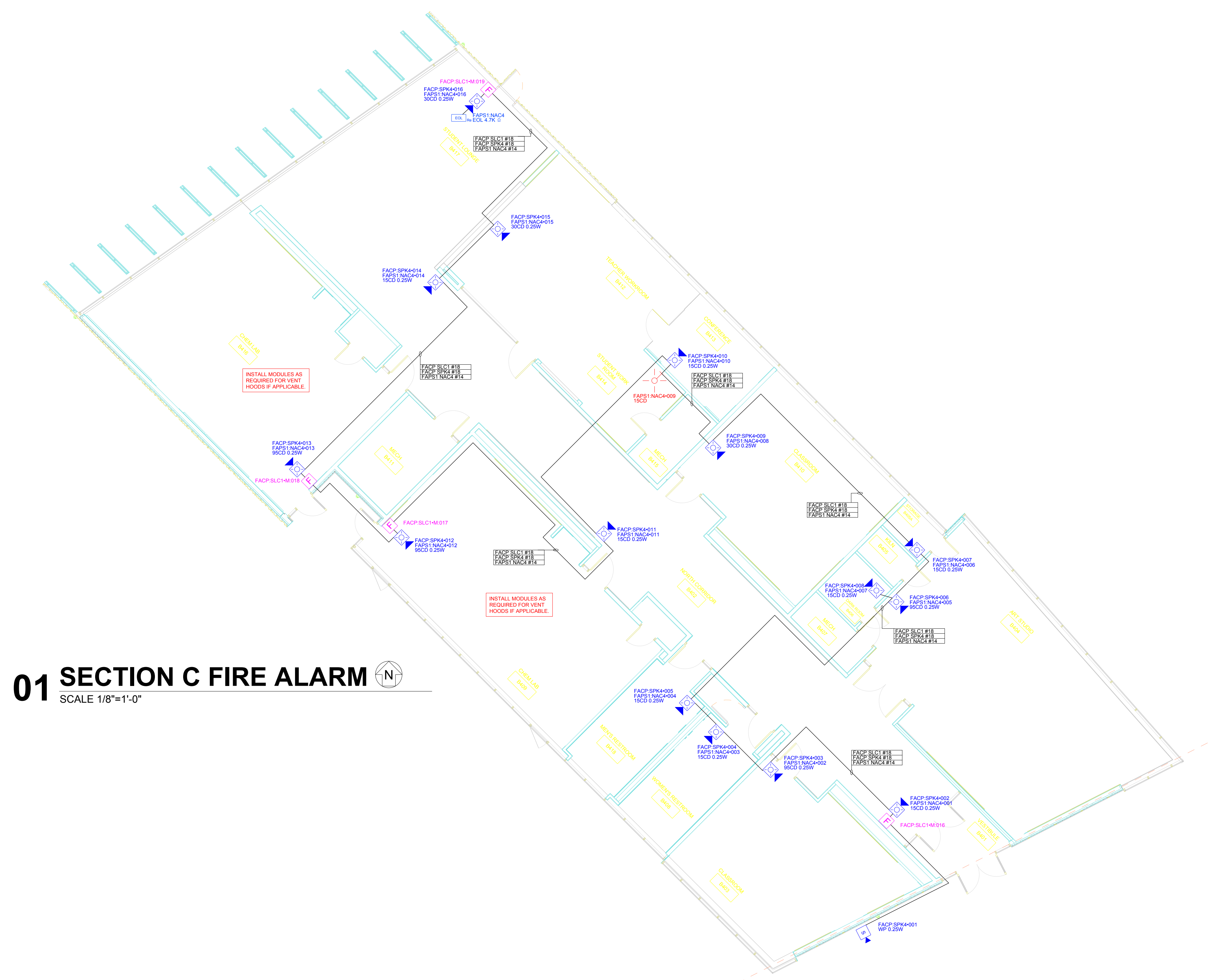
UFS JOB NUMBER: U1247
DRAWINGS PREPARED BY:
AUSTIN RAINEY
DRAWING REVIEWED BY:
ROB EVATT SET
NICET 115734
APS-1775810
DATE: 03-01-2018

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REVISIONS	
1	8-21-2018
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SECTION C &
EQUIP. PLTFRM F

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Appliance List				
Device	Address	Circuit	Part Number	Description
WALLBOX / ENCLOSURE			SSU0060	DOCUMENT STORAGE BOX, 12 IN. X 13 IN. X 2.25 IN. W/4GB FLASH DRIVE
DUCT DETECTOR			DNR	INTELLIGENT DUCT DETECTOR HOUSING WITHOUT SMOKE HEAD
DUCT DETECTOR			DNR	INTELLIGENT DUCT DETECTOR HOUSING WITHOUT SMOKE HEAD
DUCT DETECTOR			DNR	INTELLIGENT DUCT DETECTOR HOUSING WITHOUT SMOKE HEAD
DUCT DETECTOR			DNR	INTELLIGENT DUCT DETECTOR HOUSING WITHOUT SMOKE HEAD
PHOTOELECTRIC SENSOR	S.001	SLC1	ASD-PL2FR	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE
ADDRESSABLE PULL STATION	M.001	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
PHOTOELECTRIC SENSOR	S.002	SLC1	ASD-PL2FR	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE
ADDRESSABLE PULL STATION	M.002	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
CONTROL MODULE	M.003	SLC1	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE
PHOTOELECTRIC SENSOR	S.003	SLC1	ASD-PL2FR	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE
CONTROL MODULE	M.004	SLC1	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE
PHOTOELECTRIC SENA	S.004	SLC1	ASD-PL2FR	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE
PHOTOELECTRIC DETECTOR	S.005	SLC1	ASD-PL2F	SMOKE, PHOTO, ADDRESSABLE
ADDRESSABLE PULL STATION	M.005	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
CONTROL MODULE	M.006	SLC1	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE
CONTROL MODULE	M.007	SLC1	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE
DUAL MONITOR MODULE	M.008, 009	SLC1	AMM-2IF	DUAL MONITOR MODULE, ADDRESSABLE, CLASS B
DUAL MONITOR MODULE	M.010, 011	SLC1	AMM-2IF	DUAL MONITOR MODULE, ADDRESSABLE, CLASS B
ADDRESSABLE PULL STATION	M.012	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
ADDRESSABLE PULL STATION	M.013	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
ADDRESSABLE PULL STATION	M.014	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
ADDRESSABLE PULL STATION	M.015	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
ADDRESSABLE PULL STATION	M.016	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
ADDRESSABLE PULL STATION	M.017	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
ADDRESSABLE PULL STATION	M.018	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
ADDRESSABLE PULL STATION	M.019	SLC1	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE
HORNSTROBE	UID: 57523	NAC2	P2RK	HORNSTROBE, 2 WIRE, M-C, RED, OUTDOOR
END OF LINE	UID: 57589	NAC2	EOL-4.7	EOL-4.7K
STROBE	UID: 57528	NAC1	SWL	L-SERIES STROBE, WHITE, WALL
STROBE	UID: 57529	NAC1	SWL	L-SERIES STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57559	NAC1	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57560	NAC1	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57561	NAC1	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57562	NAC1	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57563	NAC1	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57564	NAC1	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57565	NAC1	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
END OF LINE	UID: 60594	NAC1	EOL-4.7	EOL-4.7K
STROBE	UID: 57531	NAC2	SWL	L-SERIES STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57548	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57549	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57550	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57551	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57552	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57553	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57554	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57555	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57556	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57557	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57558	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57560	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
END OF LINE	UID: 59838	NAC2	EOL-4.7	EOL-4.7K
STROBE	UID: 64714	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 64715	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 64716	NAC2	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57532	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57533	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57534	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57535	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57536	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57537	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57538	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57539	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57540	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57541	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57542	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57543	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57544	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57545	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57546	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57547	NAC3	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
END OF LINE	UID: 67761	NAC3	EOL-4.7	EOL-4.7K
STROBE	UID: 57570	NAC4	SPSWL	L-SERIES STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57567	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57568	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57569	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57570	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57571	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57572	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57573	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57574	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57575	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57576	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57577	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57578	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 57579	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
END OF LINE	UID: 61341	NAC4	EOL-4.7	EOL-4.7K
SPEAKER/STROBE	UID: 63251	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER/STROBE	UID: 66195	NAC4	SPSWL	L-SERIES SPEAKER/STROBE, WHITE, WALL
SPEAKER	UID: 57525	SPK1	SPRK	WALL SPEAKER RED OUTDOOR
SPEAKER	UID: 57524	SPK2	SPRK	WALL SPEAKER RED OUTDOOR
SPEAKER	UID: 57527	SPK3	SPRK	WALL SPEAKER RED OUTDOOR
SPEAKER	UID: 57526	SPK4	SPRK	WALL SPEAKER RED OUTDOOR

Battery Calculations for Panel: FACP				
Part No: E3BB-BDINCC - ENCLOSURE, COMMAND CENTER, BLACK, SIZE D				
Part No.	Qty.	Description	Standby	Total Standby
IL-S-E3	1	ILI, EXPANSION BOARD, (VELOCITI OR CLIP MODE)	0.1180A	0.1180A
IL-IMB-E3	1	ILI, MAIN BOARD, (VELOCITI OR CLIP MODE)	0.0810A	0.0810A
PM-9	20	POWER SUPPLY MODULE, 9 AMP	0.0500A	0.1500A
LCD-SLP	1	LCD COLOR TOUCHPAD DISPLAY	0.0300A	0.0300A
ASM-16	1	PROGRAMMABLE SWITCH MODULE, 16 SW, 48 LED	0.0110A	0.0110A
DAC7-E3	1	DIGITAL ALARM COMMUNICATOR, TRANSMITTER	0.0180A	0.0180A
IN-VGX	1	IN-IVGX COMMAND CENTER VOICE GATEWAY	0.0150A	0.0150A
AM-S070	1	INX 50 WATT, 70V, AMPLIFIER	0.0000A	0.0000A
Total Panel Stby			0.4210A	Total Panel Alarm
Peripheral Devices				
AMM-2IF	2	DUAL MONITOR MODULE, ADDRESSABLE, CLASS B (Signaling line)	0.0075A	0.0150A
MS-7AF	11	PULL STATION, DOUBLE ACTION, ADDRESSABLE (Signaling line)	0.0003A	0.0033A
ASD-PL2F	4	SMOKE, PHOTO, ADDRESSABLE (Signaling line)	0.0003A	0.0012A
ASD-PL2FR	4	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE (Signaling line)	0.0003A	0.0012A
AOM-2RF	4	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE (Signaling line)	0.0037A	0.0150A
GFPS-9	1	9 AMP NAC POWER SUPPLY W/SYNCH, GFPS-9, MB (Notification)	0.0000A	0.0000A
P2RK	1	HORNSTROBE, 2 WIRE, M-C, RED, OUTDOOR (Notification)	0.0000A	0.0000A
EOL-4.7	1	EOL-4.7K (Notification)	0.0000A	0.0000A
LCD-SLP	1	COLOR TOUCHSCREEN ANNUNCIATOR, LCD-SLP (Power)	0.0000A	0.0000A
LCD-SLP	1	COLOR TOUCHSCREEN ANNUNCIATOR, LCD-SLP (Serial)	0.0000A	0.0000A
SPRK	4	WALL SPEAKER RED OUTDOOR (Notification)	0.0000A	0.0000A
SPSWL	53	L-SERIES SPEAKER/STROBE, WHITE, WALL (Notification)	0.0000A	0.0000A
Total Peripheral Stby			0.0348A	Total Periph Alarm
Total Standby Amps			0.4558A	Total Alarm Amps
Standby time: 24 Hrs				10.939Ah
Alarm time: 15 Min				1.321Ah
Battery requirement:				12.26Ah
Compensation Factors - Standby: 1.2 Alarm: 1.2 Requirement with compensation:				14.712Ah

Battery Calculations for Panel: FAPS1				
Part No: GFPS-9 - 9 AMP NAC POWER SUPPLY W/SYNCH				
Part No.	Qty.	Description	Standby	Total Standby
GFPS-9_MB	1	GFPS-9 DISTRIBUTED POWER MODULE BOARD	0.0750A	0.0750A
Total Panel Stby			0.0750A	Total Panel Alarm
Peripheral Devices				
SWL	4	L-SERIES STROBE, WHITE, WALL (Notification)	0.0000A	0.0000A
SPSWL	26	L-SERIES SPEAKER/STROBE, WHITE, WALL (Notification)	0.0000A	0.0430A
EOL-4.7	1	EOL-4.7K (Notification)	0.0000A	0.0000A
SPSWL	16	L-SERIES SPEAKER/STROBE, WHITE, WALL (Notification)	0.0000A	0.0000A
SPSWL	5	L-SERIES SPEAKER/STROBE, WHITE, WALL (Notification)	0.0000A	0.0000A
SPSWL	1	L-SERIES SPEAKER/STROBE, WHITE, WALL (Notification)	0.0000A	0.0000A
SPSWL	5	L-SERIES SPEAKER/STROBE, WHITE, WALL (Notification)	0.0000A	0.0480A
SPSWL	5	L-SERIES SPEAKER/STROBE, WHITE, WALL (Notification)	0.0000A	0.0500A
Total Peripheral Stby			0.0000A	Total Periph Alarm
Total Standby Amps			0.0750A	Total Alarm Amps
Standby time: 24 Hrs				1.8Ah
Alarm time: 15 Min				0.949Ah
Battery requirement:				2.749Ah
Compensation Factors - Standby: 1.2 Alarm: 1.2 Requirement with compensation:				3.299Ah

Battery Calculations for Panel: ANN1				
Part No: LCD-SLP - COLOR TOUCHSCREEN ANNUNCIATOR				
Part No.	Qty.	Description	Standby	Total Standby
LCD-SLP	1	Panel Equipment	0.0300A	0.0300A
Total Panel Stby			0.0300A	Total Panel Alarm
Peripheral Devices				
Total Peripheral Stby			0.0000A	Total Periph Alarm
Total Standby Amps			0.0300A	Total Alarm Amps
Standby time: 24 Hrs				0.72Ah
Alarm time: 5 Min				0.005Ah
Battery requirement:				0.725Ah
Compensation Factors - Standby: 1.2 Alarm: 1.2 Requirement with compensation:				0.87Ah

Battery Calculations for Panel: IPGSM				
Part No: IPGSM-4G - FIRE ALARM COMMUNICATOR				
Part No.	Qty.	Description	Standby	Total Standby
IPGSM-4G_MB	1	Panel Equipment	0.2300A	0.2300A
Total Panel Stby			0.2300A	Total Panel Alarm
Peripheral Devices				
Total Peripheral Stby			0.0000A	Total Periph Alarm
Total Standby Amps			0.2300A	Total Alarm Amps
Standby time: 24 Hrs				5.52Ah
Alarm time: 5 Min				0.079Ah
Battery requirement:				5.609Ah
Compensation Factors - Standby: 1.2 Alarm: 1.2 Requirement with compensation:				6.719Ah

Circuit Calculations			Panel: FACP Card: 00 Circuit:SLC1		
Circuit Type: Signaling line/FCI - SLC, Velociti, CLIP			Terminal Voltage: 20.4V/DC	Amperage: 1.0000A	
Cable: 18/2 SOL JKT FPLP 1M RL RED #18			Calculations based on Running Total Length.		
Design Criteria: Ambient temperature: 167°F Minimum operating voltage: 16V					
Device	Part No	Appliance Desc	Distance	Current/Voltage	Voltage Drop
E3BB-BDINCC Panel					
M.001	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	206'-0	0.0003A 20.311V	(0.089V)
M.002	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	186'-0	0.0003A 20.310V	(0.0009V)

M.005	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	85'-0	0.0003A 20.278V	(0.0334V)
M.013	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	31'-0	0.0003A 20.2619V	(0.0163V)

M.015	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	45'-0	0.0003A 20.2618V	(0.0002V)

M.016	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	100'-0	0.0003A 20.2965V	(0.0019V)
M.017	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	242'-0	0.0003A 20.2961V	(0.0034V)
M.018	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	23'-0	0.0003A 20.2959V	(0.0002V)
M.019	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	88'-0	0.0003A 20.2955V	(0.0004V)

M.014	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	40'-0	0.0003A 20.2623V	(0.0002V)

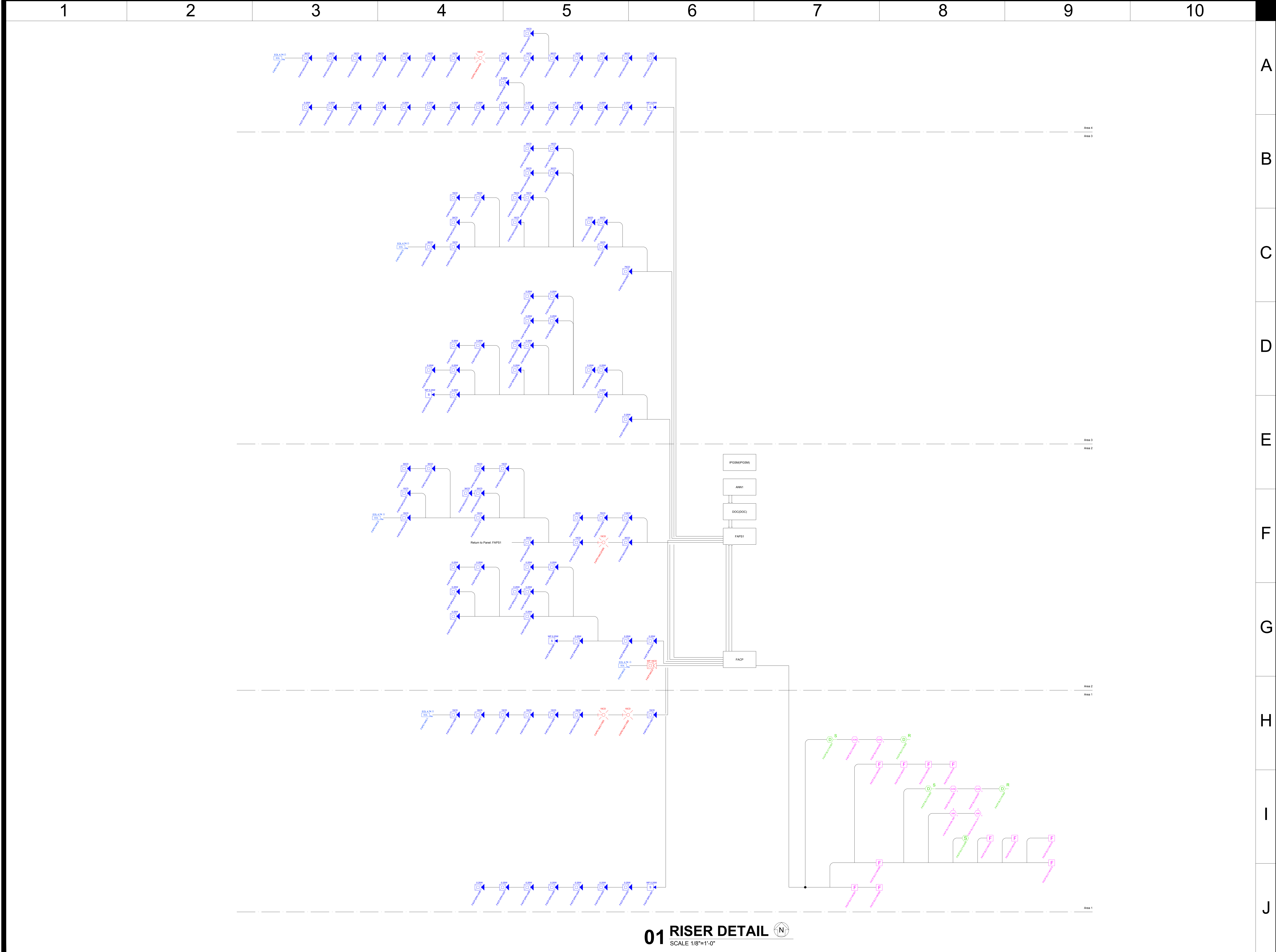
M.012	MS-7AF	PULL STATION, DOUBLE ACTION, ADDRESSABLE	35'-0	0.0003A 20.264V	(0.0002V)

S.005	ASD-PL2F	SMOKE, PHOTO, ADDRESSABLE	43'-0	0.0003A 20.2646V	(0.0002V)

S.003	ASD-PL2FR	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE	23'-0	0.0003A 20.264V	(0.0015V)
M.006	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE	2'-0	0.0037A 20.269V	(0.0002V)
M.007	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE	0'-0	0.0037A 20.2686V	(0.0006V)
S.004	ASD-PL2FR	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE	2'-0	0.0003A 20.2686V	(0V)

M.008, 009	AMM-2IF	DUAL MONITOR MODULE, ADDRESSABLE, CLASS B	33'-0	0.0075A 20.2581V	(0.0007V)
M.010, 011	AMM-2IF	DUAL MONITOR MODULE, ADDRESSABLE, CLASS B	3'-0	0.0075A 20.2587V	(0.0003V)

M.001	ASD-PL2FR	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE	52'-0	0.0003A 20.3226V	(0.0005V)
S.003	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE	2'-0	0.0037A 20.3026V	(0.0002V)
M.004	AOM-2RF	OUTPUT RELAY CONTROL MODULE, ADDRESSABLE	14'-0	0.0037A 20.3021V	(0.0002V)
M.002	SMOKE, PHOTO, FOR DUCT BASE DNR, ADDRESSABLE		2	0.0003A 20.3917V	
			1603'-0	0.0348A	
				Total Current: 0.0348A	
				Total Voltage Drop: 0.1423V	




THADEN SCHOOLS CP-4 BLDG
809 SE C STREET
BENTONVILLE, AR 72712
FIRE ALARM

ORIGINAL DRAWINGS
PROVIDED BY:
MARLON BLACKWELL
ARCHITECTS

FIRE ALARM
MANUFACTURER AND
MODEL NUMBER:
GAMEWELL - FCI E3

LICENSING INFORMATION:
AR ALARM: CMFY001847
AR CONTRACTORS: 0028470419
AR SUPPRESSION: PF-164
AR CERT. OF REG.: #PF-164
OK ALARM: 1862
TX FIRE ALARM: ACR-1765467



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BOARD OF PRIVATE
INVESTIGATORS AND PRIVATE
SECURITY AGENCIES
1 STATE POLICE PLAZA DRIVE
LITTLE ROCK, AR 72209
501-618-8600

UFS JOB NUMBER: U1247
DRAWINGS PREPARED BY:
AUSTIN RAINEY
DRAWING REVIEWED BY:
ROB EVATT SET
NICET 115734
APS-1775610
DATE: 03-01-2018

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REVISIONS
1 8-21-2018
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RISER DETAIL

F4