

ANCHO & AGAVE
 SUMMIT FAIR SHOPPING CENTER D-BUILDING
 860-A NW BLUE PARKWAY
 LEE'S SUMMIT, MO 64086
 FIRE ALARM SYSTEM

DRAWING INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1.	COVER SHEET & GENERAL SPECIFICATIONS
2.	FLOOR PLAN
3.	FA RISER / POWER CALC
4.	BOM / FA MATRIX / CABLE LEGEND / TYPICAL DEVICE HEIGHT

SCOPE OF WORK

INSTALLATION OF NEW FIRE ALARM SYSTEM DEVICES INTO EXISTING FIRE ALARM SYSTEM FOR TENANT BUILD-OUT FOR A RESTAURANT IN AN EXISTING ONE STORY BUILDING AS-NOTED.

APPLICABLE BUILDING CODE:

2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL BUILDING CODE
2018 NFPA 101
2017 NFPA 70
2022 NFPA 72

BUILDING INFO:

OCCUPANCY GROUP: A2 - ASSEMBLY
SQUARE FOOTAGE: 7,500 S.F

SPRINKLER PROTECTION: BUILDING IS SPRINKLED

DURING A FIRE EMERGENCY OR OTHER ABNORMAL CONDITION PRIOR TO OR UPON OPERATION OF THIS SYSTEM(S) PROTECTED AREA(S) LIGHTING MAY BE AFFECTED. RELIABLE EMERGENCY LIGHTING FOR EVACUATION AND/OR RESCUE OF PERSONNEL MUST BE PROVIDED. UNLESS SPECIFICALLY NOTED AND SHOWN ON THESE DRAWINGS AND/OR STATED IN THE SPECIFICATIONS, THE MARMIC PARTNER FIRE ALARM CONTRACTOR IS NOT RESPONSIBLE FOR PROVIDING ANY AREA EMERGENCY LIGHTING.

1. ABBREVIATIONS:
 - 1.1 F.A.C. – Marmic Partner Fire Alarm Contractor
 - 1.2 E.C. – Electrical Installing Contractor
 2. GENERAL ELECTRICAL SPECIFICATIONS & INSTALLATION NOTES
 - 2.1 All wiring shall be in compliance with applicable codes, primarily Article 760, OSHA, NFPA 72 and installed to the satisfaction of the authority having jurisdiction.
 - 2.2 Do not energize control panels until specific instruction has been issued to do so. Generally, control panel will not be energized until wiring has been checked out by F.A.C.
 - 2.3 All wire shall be continuous (without splicing) from beginning terminal point to ending terminal point.
 - 2.4 The use of Brady-type tags on all wiring is required.
 - 2.5 Color coding of all pairs is required to maintain proper polarity.
 - 2.6 The use of Sta-Kon terminals is required at all screw terminal connections unless compression type lugs are being used. Where pigtail connections are to be made, the use of wire nuts is permitted.
 - 2.7 All wire, conduit, junction boxes, etc. to be supplied and installed by E.C.
 - 2.8 E.C. is responsible for mounting and making all final connections to all supplied detectors, control panels, signal devices, manual alarm stations, etc.
 - 2.9 E.C. to supply one set of "as built" electrical drawings, showing termination's, number of wires and conduit runs. A "red" mark-up is sufficient. Provide numbering assigned to wiring and cables.
 - 2.10 All wiring to be in protective metallic conduit (EMT, rigid, or Flexible) as conditions require. All Terminations on EMT shall be set screw. Plenum rated cable is acceptable where approved in writing.
 - 2.11 Audible circuits are parallel circuits, utilizing an end-of-line resistor. These circuits shall be wired as shown, no branching permitted.
 - 2.12 All signaling and initiation device wires shall be shielded from all other wires not related to these functions. 120 VAC run independent of 24 VDC. Input functions independent of output functions.
 - 2.13 Wiring specified as shielded by description or by $\frac{1}{2}$ shall utilize shield multi-conductor cable. This shielded cable shall be – minimum #18 AWG – stranded one or two pair. Total number of conductors within the outer jacket shall be shielded as one bundle. This shielding shall be aluminum foil wrapped or equivalent and each cable shall carry a continuous bare ground conductor. At junctions or breaks, ground conductors shall be spliced for continuity to following cable run. In the event where the bare ground wire is exposed in junction boxes, etc., care shall be take to insulate this bare ground conductor from any adjacent bare terminal strips, etc. This insulation shall be accomplished by wrapping with tape or by the use of spaghetti insulation.
 - 2.14 Supply a two wire power supply – 120 VAC single phase 20 amp dedicated circuit to main control panel. Mark breaker –FIRE CONTROL SYSTEM – lock on.
 - 2.15 All resistors and diodes shown on final electrical schematic shall be supplied by F.A.C.
 - 2.16 E.C. shall provide personnel to assist and witness all checkout of electrical wiring prior to energizing control panels and devices.
 3. WIRE SPECIFICATIONS
 - 3.1 Power Wiring to Control Panel:
120 VAC: Dedicated Circuit 12 AWG Stranded Type THHN, Black, White & Green.
 - 3.2 Field Wiring to Detectors and Manual Alarm Stations:
18 AWG Solid, 2 Conductor, Non-shielded, Type FPLP.
 - 3.3 Field Wiring to Audible/Visual Alarms:
14 AWG Solid, 2 conductor, Non-shielded, Type FPLP.
 - 3.4 Internal Panel Wiring:
16 AWG stranded, Belden 8521, non-shielded.
 - 3.5 All Other Wiring Not Specified:
As indicated on Devices Layouts.
 4. EQUIPMENT BACK BOX AND ELEVATION
 - 4.1 Control Panel:
Top of cabinet 5'–9" above finished floor.
 - 4.2 Manual Fire Alarm Station:
Single gang handy box, 4'–0" Above finished floor.
 - 4.3 Alarm Horn/Strobe:
Deep 4" square box, 6'–8" to bottom above finished floor or on ceiling.

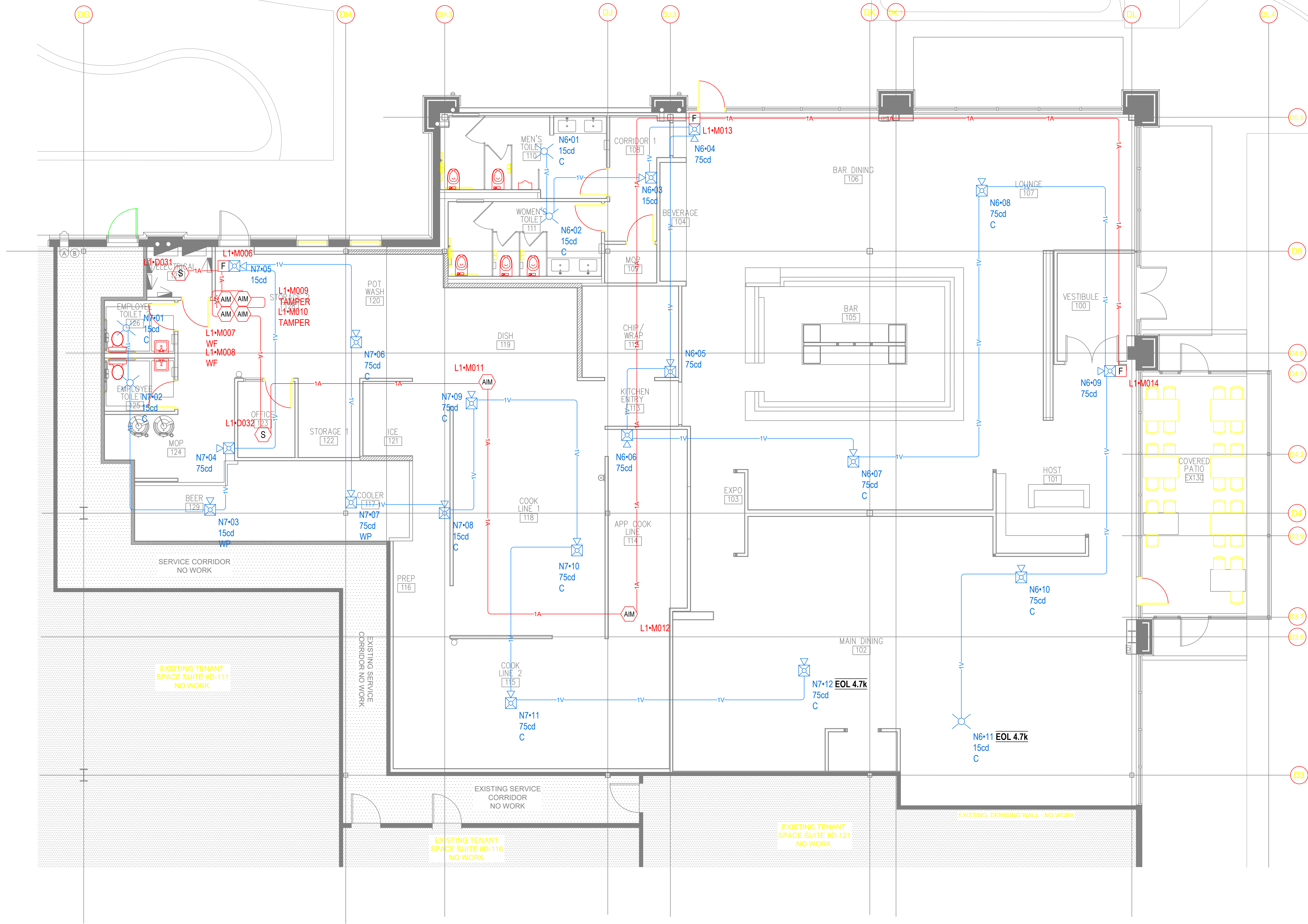
ANCHO & AGAVE
 SUMMIT FAIR SHOPPING CENTER D-BUILDING
 860-A NW BLUE PARKWAY
 LEE'S SUMMIT, MO 64086
 FIRE ALARM SYSTEM / COVER SHEET / GENERAL SPECIFICATION

THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF APS FIRE CO. IT IS SUBMITTED IN CONFIDENCE AND IS NOT TO BE DISCLOSED OR UTILIZED WITHOUT WRITTEN PERMISSION EXCEPT

DRAWN	D. FLINT
DATE	6/20/25
DESIGN BY	D. FLINT 121007
SCALE	NTS
JOB NO.	4143499

SERVICE TRADE JOB # - 41434994

Filename: 41434994 ANCHO AGAV



ANCHO & AGAVE
SUMMIT FAIR SHOPPING CENTER D-BUILDING
860-A NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086
FIRE ALARM SYSTEM / FLOOR PLAN

JOB NAME	
THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF MARMIC. IT IS SUBMITTED IN CONFIDENCE AND IS NOT TO BE DISCLOSED OR REPRODUCED WITHOUT WRITTEN PERMISSION EXCEPT IN CONNECTION WITH OUR WORK.	
DRAWN	D. FLINT
DATE	6/20/25
DESIGN BY	D. FLINT
SCALE	NIS
JOB NO.	41434994
SHEET NUMBER	
2 of 4	

Filename: 41434994 ANCHO AGAVE

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
WIRE RESISTANCE (Ω/FT) = WIRE RESISTANCE (Ω/M) X 0.3048 (1.0497 FT/M)

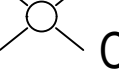
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM OUTPUTS

[illegible]

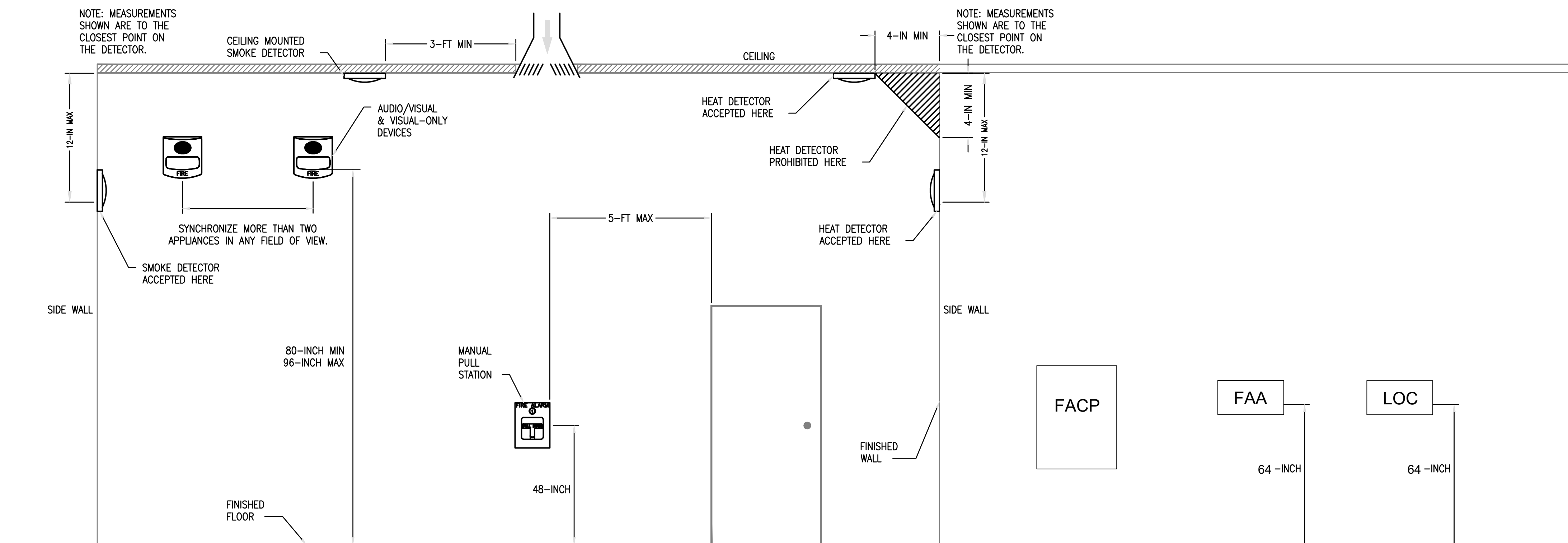
BILL OF MATERIAL

BILL OF MATERIAL				
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION
	6	GAMEWELL FCI	AMM-4F	ADDRESSABLE MONITOR MODULE, SINGLE CIRCUIT
	3	GAMEWELL FCI	MS-7AF	VELOCITI ADDRESSABLE DOUBLE ACTION STATION
	2	GAMEWELL FCI	ASD-PL3 W/B300-6	PHOTOELECTRIC SMOKE DETECTOR, BRIGHT WHITE, VELOCITI W/ 6" FLANGED MOUNTING BASE, BRIGHT WHITE
	5	SYSTEM SENSOR	SCWLED	STROBE, CEILING, WHITE
	2	SYSTEM SENSOR	P2GWKLED	2-WIRE, COMPACT HORN STROBE, WALL, WHITE, OUTDOOR
	7	SYSTEM SENSOR	P2WLED	2-WIRE, HORN STROBE, WHITE
	9	SYSTEM SENSOR	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE

ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE

CABLE AND WIRE LEGEND

CABLE AND WIRE LEGEND					
LABEL	PART NO	APPLICATION	RESISTANCE MFT	AWG	DESCRIPTION
A	16/2 FPLR	SLC	4.89	16	2 COND. SOLID COPPER FPLR ADDRESSABLE
V	16/2 FPLP/R	NAC	4.89	16	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED



TYPICAL DEVICE MOUNTING HEIGHTS

SCALE: NONE