





























ABBREVIATIONS			
A	AMPERE	LF	LOW FREQUENCY
A.C	ABOVE COUNTER	M.H.	MOUNTING HEIGHT
A.F.F.	ABOVE FINISHED FLOOR	NAC	NOTIFICATION APPLIANCE CIRCUIT
A.F.G.	ABOVE FINISHED GRADE	N.E.C.	NATIONAL ELECTRIC CODE
BAS	BUILDING AUTOMATION SYSTEM	P / PH	PHASE
CKT	CIRCUIT	RM	REMOTE MICROPHONE CONSOLE
CD	CANDELA	SLC	SIGNALING LINE CIRCUIT
D	DEMOLISH	TYP	TYPICAL
FAC	FIRE ALARM COMMUNICATOR	U.O.N.	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	V	VOLTAGE
FATC	FIRE ALARM TERMINAL CABINET	W/	WITH
E	EXISTING TO REMAIN	W	WIRE
ER	EISTING TO BE REPLACED	WP	WEATHERPROOF
GAP	GRAPHIC ANNUNCIATOR PANEL		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
IDC	INITIATING DEVICE CIRCUIT		

FIRE ALARM GENERAL NOTES	
1.	ANY CONFLICT AND/OR DISCREPANCY BETWEEN THESE GENERAL NOTES AND ANY OTHER INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL AND BE A REQUIREMENT OF THE WORK. THAT NOTWITHSTANDING, ANY SUCH CONFLICT AND/OR DISCREPANCY SHALL PROMPTLY BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER.
2.	THE WORK INCLUDES, BUT IS NOT LIMITED TO DESIGNING AND EXTENDING AN EXISTING TO REMAIN, COMPLETELY SUPERVISED, INTELLIGENT, ANALOG, ADDRESSABLE FIRE ALARM AND DETECTION SYSTEM AS INDICATED IN THE CONTRACT DOCUMENTS. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL WIRING, RACEWAYS, PULL BOXES, TERMINAL CABINETS, OUTLET AND MOUNTING BOXES, CONTROL EQUIPMENT, ALARM AND SUPERVISORY SIGNALS, INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, NOTIFICATION ALARM PANELS, INTERFACE EQUIPMENT, AND ALL OTHER ACCESSORIES AND MISCELLANEOUS ITEMS INCLUDING SOFTWARE, SYSTEM PROGRAMMING, TEST AND CONSTRUCTION PERMITS REQUIRED FOR A COMPLETE OPERATING SYSTEM NORMALLY AND CUSTOMARILY REQUIRED, WHETHER INDICATED OR INHERENTLY NECESSARY DUE TO THE NATURE OF THE WORK.
3.	THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DEVICE COUNTS AND GENERAL LOCATIONS ONLY. CONTRACTOR IS RESPONSIBLE FOR DESIGN DRAWINGS AND INSTALLATION OF DEVICES IN ACCORDANCE WITH LOCAL CODES, PROJECT SPECIFICATIONS, AND MANUFACTURER'S REQUIREMENTS.
4.	PROVIDE ALL NECESSARY PERMITS, INSPECTIONS AND FINAL SYSTEM ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION (AHJ).
5.	FIRE ALARM CONTRACTOR SHALL PREPARE SHOP DRAWINGS, CALCULATIONS, AND EQUIPMENT CUT SHEETS, AND SUBMIT THEM TO AUTHORITY HAVING JURISDICTION (AHJ) FOR APPROVAL. APPROVAL MUST BE RECEIVED BEFORE START OF WORK.
6.	THE SYSTEM SHALL PROVIDE GENERAL EVACUATION SIGNALING THROUGHOUT THE BUILDING. UPON ACTIVATION OF AN ALARM SIGNAL, THE SYSTEM SHALL INITIATE A PRE-RECORDED EMERGENCY VOICE SIGNAL AND VISIBLE STROBE SIGNALING IN ALL REQUIRED AREAS PER PUBLIC MODE CRITERIA IN ACCORDANCE WITH NFPA 72.
7.	COORDINATE ALL WORK AND AVOID ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, PIPES AND OTHER OBSTRUCTIONS.
8.	SUBJECT TO ANY INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS, MOUNT ALL VISUAL WARNING STROBE/AUDIBLE NOTIFICATION APPLIANCES TO ACHIEVE MAXIMUM AUDIBILITY AND VISIBILITY IN ACCORDANCE WITH NFPA 72, 2022 AND CURRENT ADAAG GUIDELINES. PROVIDE CARE IN LOCATING VISUAL WARNING STROBE APPLIANCES TO ENSURE VISIBILITY AND AVOID OBSTRUCTIONS. REFER TO ARCHITECTURAL ELEVATIONS FOR SPECIFIC MOUNTING DETAILS AND ALIGNMENTS.
9.	ALL STROBES WITHIN A COMMON VIEWING AREA SHALL BE WIRED TO FLASH IN SYNCHRONIZATION. PROVIDE SYNCHRONIZATION MODULE OR OTHER EQUIPMENT WITH SYNCHRONIZATION CAPABILITIES FOR EACH STROBE CIRCUIT, WHERE REQUIRED. ALL NOTIFICATION FACEPLATE COLOR SHALL BE WHITE IN COLOR.
10.	DRAWINGS DO NOT SHOW THE LOCATION OF ALL ADDRESSABLE INPUT AND CONTROL MODULES. CONTRACTOR SHALL PROVIDE NEW POINT ADDRESSABLE INPUT MODULES FOR FIRE SUPPRESSION SYSTEM SUPERVISION DEVICES AND OTHER AREAS AS REQUIRED BY THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL PROVIDE NEW POINT ADDRESSABLE CONTROL MODULES AS REQUIRED FOR SYSTEM OPERATION.
11.	ALL ADDRESSABLE CONTROL RELAYS SHALL BE LOCATED WITHIN 3 FEET OF CONTROLLED CIRCUIT OR DEVICE.
12.	ALL WIRING SHALL BE INSTALLED WITHIN CONDUIT. SUBJECT TO ANY CODE RESTRICTION AND/OR REQUIREMENT; PROVIDE ELECTRICAL METALLIC TUBING (EMT), UNLESS OTHERWISE NOTED. COORDINATE COLOR OF CONDUIT WITH ARCHITECT. LABEL CONDUIT AT 20 FT INTERVALS.
13.	IN AREAS WITHOUT CEILINGS, CONDUIT SHALL BE INSTALLED AS UNOBTUSIVELY AS POSSIBLE, AS CLOSE AS POSSIBLE TO FLOOR/CEILING SLAB AND PARALLEL AND AT RIGHT ANGLES TO STRUCTURAL STEEL OR CONCRETE.
14.	CONCEAL ALL CONDUITS ABOVE SUSPENDED CEILINGS AND BEHIND WALLS. IN UNFINISHED AREAS CONDUIT MAY BE SURFACE MOUNTED, UNLESS OTHERWISE NOTED.
15.	PENETRATION OF FIRE RATED ASSEMBLIES BY FIRE ALARM CONDUIT OR WIRING SHALL BE SEALED BY THE INSTALLING CONTRACTOR WITH A U.L.CLASSIFIED THROUGH PENETRATION SYSTEM CAPABLE OF MAINTAINING THE REQUIRED FIRE RESISTANCE RATING OF THE ASSEMBLY PENETRATED.
16.	COORDINATE LOCATION OF AUTOMATIC SPRINKLER FLOW AND VALVE SUPERVISORY SWITCHES PRIOR TO CONDUIT ROUGH-IN TO ENSURE ACCESSIBILITY AND MINIMIZE LENGTH OF FLEXIBLE CONDUIT RUNS NECESSARY TO MAKE CONNECTIONS.
17.	ELECTRICAL BOXES SHALL BE PROVIDED AS FOLLOWS: I) EXPOSED WORK - CAST METAL BELL TYPE BOXES WITH THREADED HUB, EXCEPT WHERE FACTORY BOXES ARE PROVIDED; AND II) CONCEALED WORK - BOXES MAY BE STAMPED STEEL BOXES.
18.	LOCATE FIRE ALARM DEVICES INSTALLED IN ACOUSTICAL TILE CEILINGS IN THE CENTER OF THE TILE.
19.	FIRE ALARM SYSTEM ON A NETWORK.
20.	SHOP DRAWING COMPLETE SUBMITTALS PACKAGE MUST BE COMPLETE AND EXECUTED PER NFPA 72 INCLUDING BUT NOT LIMITED TO ALL PLANS, CALCULATIONS, AND MATERIAL DATASHEETS. NO EXCEPTIONS; PIECE-MEAL SUBMISSIONS WILL BE AUTOMATICALLY REJECTED
21.	CLOSEOUT DOCUMENTS SHALL BE PROVIDED PER NFPA 72, UPON FINAL ACCEPTANCE OF PROJECT.
22.	FIRE ALARM SYSTEM INTEGRITY SHALL MEET SURVIVAIBLTY LEVEL 1 REQUIREMENTS AS PER NFPA 72.

FIRE ALARM EQUIPMENT SYMBOLS		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO Ȣ A.F.F., U.O.N.
	FIRE ALARM AMPLIFIER PANEL (120VAC PRIMARY POWER)	
	FIRE ALARM POWER BOOSTER PANEL (120VAC PRIMARY POWER)	
	FIRE ALARM LED GRAPHIC ANNUNCIATOR	
	FIRE ALARM CONTROL PANEL (120VAC PRIMARY POWER)	
	FIRE ALARM TERMINAL CABINET	
	LCD ANNUNCIATOR	
	REMOTE MICROPHONE CONSOLE	
INTIATING DEVICE SYMBOLS		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO Ȣ A.F.F., U.O.N.
	FIRE ALARM MANUAL PULL STATION	+42" - 48" A.F.F. (OPERATING HANDLE TO FLOOR)
	ADDRESSABLE HEAT DETECTOR	
	WALL-MOUNTED MAGNETIC DOOR HOLDER	
	SPRINKLER WATERFLOW SWITCH (FURNISHED BY THE SPRINKLER CONTRACTOR)	
	SPRINKLER VALVE TAMPER SWITCH (FURNISHED BY THE SPRINKLER CONTRACTOR)	
	ADDRESSABLE INTERFACE MODULE	
	ADDRESSABLE RELAY MODULE	
	REMOTE TEST STATION	
	ISOLATOR MODULE	
	ADDRESSABLE CONTROL MODULE	
 R	ADDRESSABLE SMOKE DETECTOR - PHOTOELECTRIC TYPE -SUBSCRIPT 'R' DENOTES ELEVATOR RECALL DEVICE)	
 R	WALL ADDRESSABLE SMOKE DETECTOR - PHOTOELECTRIC TYPE -SUBSCRIPT 'R' DENOTES ELEVATOR RECALL DEVICE	
	ADDRESSABLE DUCT-MOUNTED SMOKE DETECTOR	
NOTIFICATION DEVICE SYMBOLS		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO Ȣ A.F.F., U.O.N.
 ## CM	CEILING MOUNTED COMBINATION FIRE ALARM AUDIO (SPEAKER) / VISUAL (STROBE) APPLIANCE - SUPERScript ## DENOTES CANDELA RATING	
 ## WP	WALL MOUNTED COMBINATION FIRE ALARM AUDIO (SPEAKER) / VISUAL (STROBE) APPLIANCE - SUPERScript ## DENOTES CANDELA RATING - SUBSCRIPT 'WP' DENOTES WEATHER-PROOF TYPE DEVICE	+80" - 96" A.F.F. (STROBE LENS TO FLOOR)
 ##	WALL MOUNTED FIRE ALARM VISUAL (STROBE) APPLIANCE - SUPERScript ## DENOTES CANDELA RATING	+80" - 96" A.F.F. (STROBE LENS TO FLOOR)
 ## CM	CEILING MOUNTED FIRE ALARM VISUAL (STROBE) APPLIANCE - SUPERScript ## DENOTES CANDELA RATING	
	WALL MOUNTED FIRE ALARM AUDIO (SPEAKER) APPLIANCE	+90" A.F.F. (TOP OF DEVICE TO FLOOR)
	CEILING MOUNTED SPEAKER	
	BELL / CHIME	

FIRE ALARM DRAWING INDEX	
SHEET No.	SHEET NAME
FA-001	SYMBOLS, ABBREVIATIONS AND NOTES
FA-101	6TH FLOOR - NEW WORK - FIRE ALARM
FAD-102	6TH FLOOR - DEMOLITION - FIRE ALARM



UNIVERSITY of MARYLAND
BALTIMORE

ADMINISTRATION & FINANCE
DESIGN AND CONSTRUCTION


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PHONE NO. (410) 706-7710
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Murphy &
Dittenhafer
ARCHITECTS

PROFESSIONAL CERTIFICATION
HEREBY CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I AM A
DULY LICENSED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 17825
EXPIRATION DATE: 6/7/2026

REGISTRATION / STAMP



PROJECT TITLE :

UMB SON
6TH FLOOR
APT. SIM.
RENOVATION

UMB BUILDING NO. : SON - 0833

UMB Project NO. : 26-312

A/E PROJECT NO. : 25-128

CAD FILE NO. :

DATE :

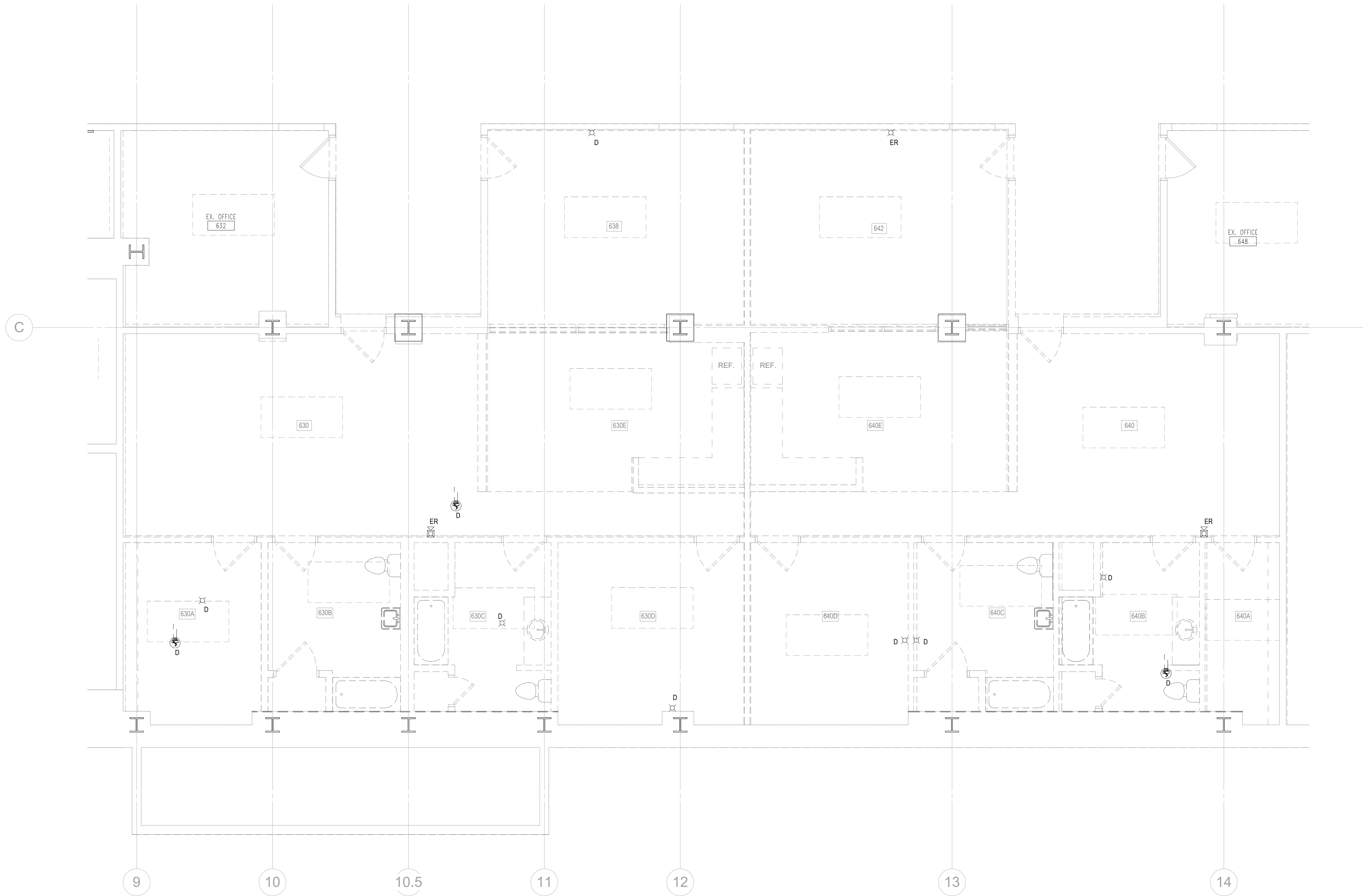
SHEET TITLE :

SYMBOLS,
ABBREVIATIONS AND
NOTES

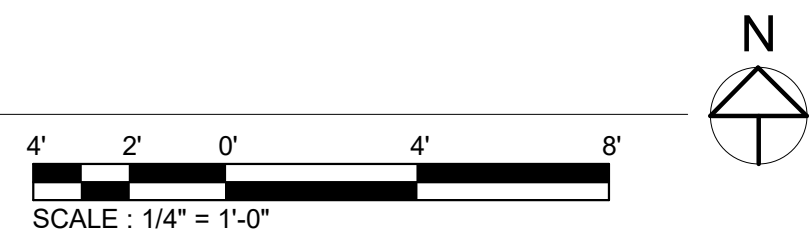
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NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET

SHEET NO.

FA-001



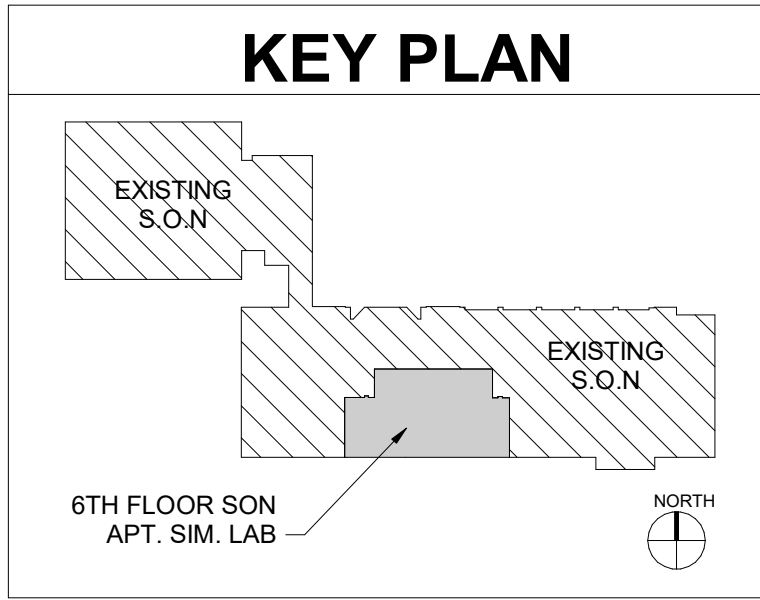
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FAD-102
6TH FLOOR - DEMOLITION - FIRE ALARM
SCALE: 1/4" = 1'-0"

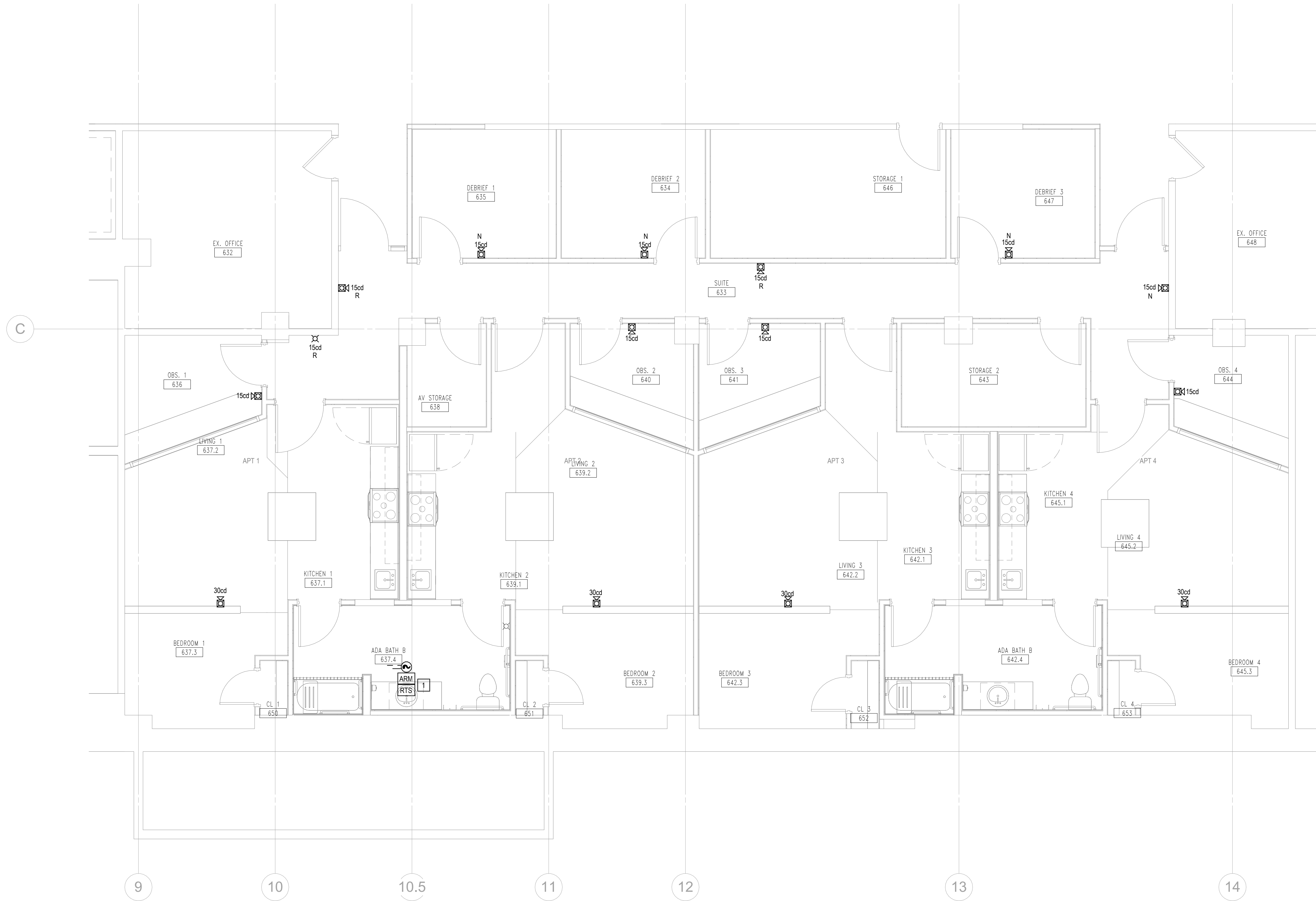


DEMO GENERAL FIRE ALARM NOTES

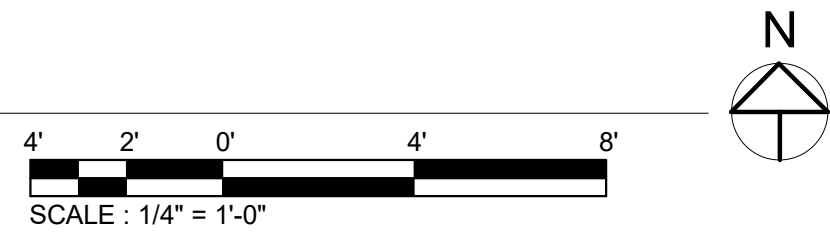
1. REFER TO SHEET FA-001 FOR LEGEND, NOTES, AND ABBREVIATIONS.
2. EXISTING WIRING, RACEWAY AND ASSOCIATED FITTINGS, ETC. SHALL BE MAINTAINED FOR RE-USE.
3. DEMOLISHED DEVICES SHALL BE RETURNED TO OWNER.

REVISIONS		
NO	DATE	ITEM
	2/07/26	100% CD SUBMISSION
	4/08/26	BID SET





1 6TH FLOOR - NEW WORK - FIRE ALARM
FA-101 SCALE: 1/4" = 1'-0"



DRAWING NOTES

1.

PROVIDE ADDRESSABLE RELAY MODULE FOR AHU SHUTDOWN.

GENERAL FIRE ALARM NOTES

1.

REFER TO SHEET FA-001 FOR LEGEND, NOTES, AND ABBREVIATIONS.

2.

INFORMATION ON THESE PLANS IS DIAGRAMMATIC IN NATURE FOR USE IN GENERAL LAYOUT AND COORDINATION.

3.

PARTICIPATION IN THE PROJECT'S COORDINATION PROCESS IS MANDATORY. INSTALLATION SHALL NOT OCCUR PRIOR TO COORDINATION WITH ALL OTHER TRADES.

4.

CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR EXAMINATION AND COORDINATION WITH ALL CONTRACT DOCUMENTS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL FLOOR PLANS/ REFLECTED CEILING PLANS, MECHANICAL, ELECTRICAL, PLUMBING, INFORMATION TECHNOLOGY, AND STRUCTURAL.

5.

CONTRACTOR IS RESPONSIBLE FOR DELIVERY OF A TURN-KEY SYSTEM IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.

6.

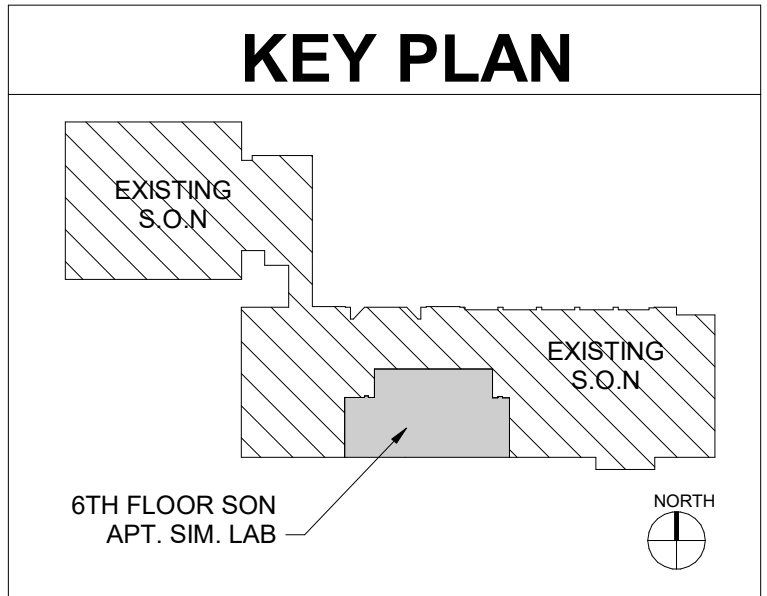
ALL CEILING MOUNTED FIRE ALARM DEVICE SHALL BE MOUNTED IN CENTER OF TILES.


7.

ALL ADDRESSABLE DEVICES SHALL BE INSTALLED IN A CONDITIONED SPACE.

8.


EXISTING SEQUENCE OF OPERATIONS SHALL BE MAINTAINED.



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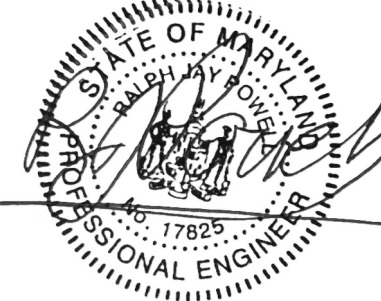
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6TH FLOOR - NEW
WORK - FIRE ALARM

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	4/08/26	BID SET

SHEET NO.

FA-101