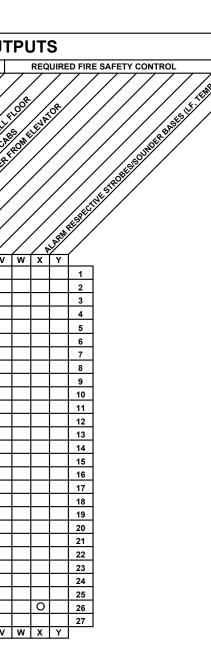
FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX										SYSTEM OUT										JT	Γ					
										٦	FACP ANNUNCIATION						Ţ	NOTIFICATION					_			
				CONTRACTOR	MON	ALARMAN DELEM	SOM SOM	SIGNER CON	UP CALO	A SOF	- 21 - 22 - 20 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	CAT CALL	A DUCK	00 00 00 00 00 00 00 00 00 00 00 00 00	APHI SCHUSS	NAL STALL	CEL SOM SOM	110000 1100 1100 1100 1100 1100 1100 1	TATIC STATIC SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	OTIFI	ON LON LON LON LON LON LON LON LON LON L	LE PEO	All SAL			
	SYSTEM INPUTS		ĘŢIJŔ									AN X	2011	241/2						Ľ			\angle	, ,		
		Α	в	С	D	E	FО	G	н	Ι	J	к	гO	М	Ν	0	Р	Q	R	S	Т	U	v	F		
1						0	0						0							┝──┦				Г		
2 3	FIRE ALARM SYSTEM LOW BATTERY OPEN CIRCUIT			<u> </u>		0	0						0							┝──┦				ſ		
4	GROUND FAULT					0	0						0					<u> </u>						Ē		
5						ŏ	ŏ						ŏ											Ē		
6	BUILDING MANUAL PULL STATIONS	0	0			<u> </u>	-	0	0	0	0		-	0										Ē		
7	BOILDING MANUAL FULL STATIONS	Ĕ	Ň					-	-)	Ť			<u> </u>										Ē		
8	AREA SMOKE DETECTORS	0	0					0	0	0	0			0	0									ī		
9	AREA OMORE BETEOTORO	-	•					-	-	•	-			-	•									ī		
10																								ī		
11																								ī		
12	SPRINKLER TAMPER SWITCH			0	0			0				0								\square				ī		
13	SPRINKLER WATER FLOW IN BUILDING	0	0					0	0	0	0			0	0									L		
14	SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT	0	0					О	0	0	0			О	0		0	0						L		
15	ELEV EQUIP RM AREA HEAT/SMOKE DETECTOR	0	0					0	0	0	0			0	0		0			\square				L		
16	ELEV SHAFT AND ELEV EQUIP RM HEAT/SMOKE DETECTORS	0	0					0	0	0	0			0	0		0	0		\square				Ļ		
17	ELEV LOBBY SMOKE/HEAT DETECTORS - UPPER FLOORS	0	0					0	0	0	0			0	0	_								┝		
18	ELEV LOBBY SMOKE/HEAT DETECTOR - RECALL FLOOR	0	0					0	0	0	0	_		0		0	0			\square				F		
19	ELEV CONTROLLER POWER SHUNT TRIP STATUS			0	0			0				0								\vdash				⊦		
20																				⊢				⊢		
21																				⊢				F		
22																				⊢				F		
23																				⊢				r		
24			<u> </u>		-												<u> </u>	<u> </u>		\vdash				Г		
25				0							\vdash							-		⊢┥				ſ		
26	ADA APARTMENT SMOKE DETECTORS			\vdash	-			-		—										⊢				Ē		
27	-																									

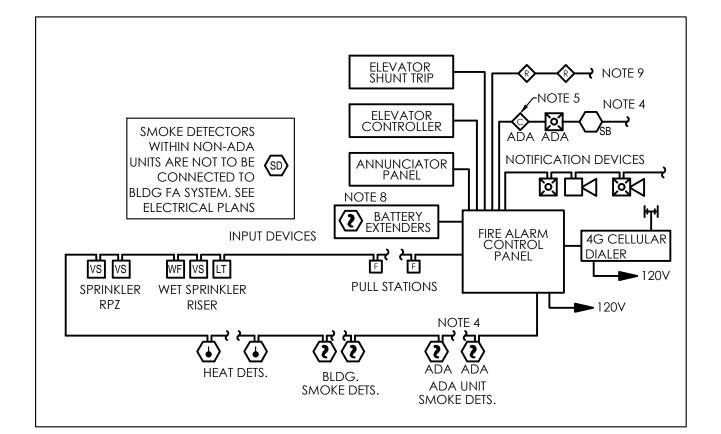


GENERAL FIRE ALARM NOTES

- THE FIRE ALARM CONTRACTOR IS TO BE HELD TO THE SAME REQUIREMENTS AS THE ELECTRICAL CONTRACTOR. FIRE ALARM CONTRACTOR SHALL REVIEW ELECTRICAL PLANS AND ELECTRICAL "GENERAL NOTES" BEFORE COMPLETING BID.
- FIRE ALARM CONTRACTOR IS TO VERIFY PROPOSED SYSTEM HAS BATTERY AND VOLTAGE CAPACITY TO HANDLE ALL DEVICES PLUS REQUIRED CAPACITY FOR POTENTIAL FUTURE DEVICES. PROVIDE FIRE ALARM SHOP DRAWINGS TO LOCAL AHJ.
- AUDIBLE FIRE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND PRESSURE LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, AT ALL LOCATIONS WITHIN THE OCCUPIABLE SPACE (TYPICAL AVERAGE AMBIENT SOUND PRESSURE LEVELS ARE GIVEN IN NFPA 72 TABLE A.18.4.3). THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 75 dBA IN OCCUPANCY GROUPS R AND I-1, 90 dBA IN MECHANICAL EQUIPMENT ROOMS, AND 60 dBA IN ALL OTHER OCCUPANCIES. THE MAXIMUM SOUND PRESSURE LEVEL SHALL BE 110 dBA AT THE MINIMUM HEARING DISTANCE FROM ANY AUDIBLE APPLIANCE.
- 4. IF THREE OR MORE FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCES ARE LOCATED WITHIN AN OBSERVERS FIELD OF VIEW (135°) AND WITHIN 55'-0" OF THE OBSERVER, THEN THE DEVICES SHALL BE SYNCHRONIZED.
- 5. LOW FREQUENCY DEVICES TO BE INSTALLED IN SLEEPING AREAS OF APARTMENT UNITS (INCLUDING LIVING ROOMS).
- 6. ADA SMOKE DETECTORS TO INCLUDE LOW FREQUENCY SOUNDER BASE. TEMPORAL 3 TONE PATTERN FOR FIRE ALARM.
- 7. FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72 AND 'ADA'.
- 8. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT OR AS ALLOWED BY NEC OR LOCAL AHJ.
- 9. ELECTRICAL CONTRACTOR SHALL PROVIDE AN UPDATED FIRE ALARM LAYOUT PLAN AT THE FACP.
- OF THE ELECTRICAL CONTRACTOR.
- 12. NAC CIRCUITS AND ASSOCIATED BATTERY PANELS SERVING DWELLING UNITS ARE TO BE DESIGNED WITH 20% SPARE CAPACITY FOR FUTURE VISUAL NOTIFICATION DEVICES.



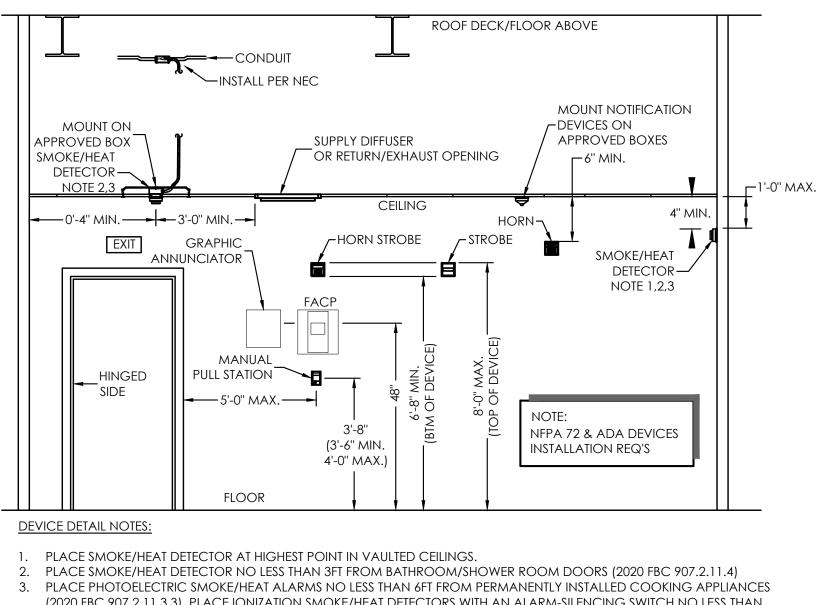
- 10. TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY
- 11. FIRE ALARM DEVICES COLOR TO BE SELECTED BY THE ARCHITECT.



RISER NOTES:

- 1. FIRE ALARM CONTROL PANEL TO BE EQUAL TO FIRE-LITE MS-9600LS W/ FIRE-LITE IPGSM-4G DIGITAL CELLULAR FIRE COMMUNICATOR W/ BATTERY BACK-UP (POWER AND TELECOM LINES FOR DEVICE MUST BE IN CONDUIT (SEE MANUFACTURER'S INSTRUCTIONS). PROVIDE FCPS24-FS8 POWER SUPPLIES AS REQUIRED. ENSURE SMOKE DETECTOR IS PROVIDED AT ALL BATTERY EXTENDER PANELS.
- 2. ENSURE ALL DEVICES/APPLIANCES USED ARE COMPATIBLE WITH FACP. PROVIDE ALL PROGRAMMING AND FINAL CONNECTION BY A FACTORY TRAINED TECHNICIAN.
- 3. RISER IS GENERIC IN NATURE SEE PLAN FOR EXACT DEVICE LAYOUT AND QUANTITY.
- 4. MAP ADA UNIT SMOKE DETECTORS TO CORRESPONDING UNIT CONTROL MODULE. WHEN SMOKE IS DETECTED IN AN ADA UNIT ONLY NOTIFICATION DEVICES IN THAT SPECIFIC UNIT ARE TO ACTIVATE.
- 5. CONTROL MODULE TO ACTIVATE ADA UNIT NOTIFICATION APPLIANCES UPON GENERAL BUILDING ALARM AND DETECTION OF SMOKE WITHIN INDIVIDUAL UNIT.
- 6. COORDINATE EXACT QUANTITY AND LOCATION OF SPRINKLER SYSTEM SUPERVISORY DEVICES WITH SPRINKLER CONTRACTOR.
- 7. ALL DEVICES IN SLEEPING AREAS AND APARTMENT UNITS, INCLUDING LIVING ROOMS, TO BE LOW FREQUENCY TYPE.
- 8. BATTERY EXTENDER PANELS SHOWN ON MULTIPLE FLOORS. SEE PLANS. SOME PANELS MAY BE OMITTED IF VOLTAGE DROPS AND BATTERY AMP HOUR REQUIREMENTS CAN BE MET WITHOUT. PROVIDE SMOKE DETECTOR AT ALL BATTERY PANEL LOCATIONS.
- 9. RELAYS FOR DOOR HOLDERS. SEE PLANS.





(2020 FBC 907.2.11.3.3). PLACE IONIZATION SMOKE/HEAT DETECTORS WITH AN ALARM-SILENCING SWITCH NO LESS THAN 10FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE (2020 FBC 907.2.11.3.2). PLACE IONIZATION SMOKE/HEAT DETECTORS WITHOUT AN ALARM-SILENCING SWITCH NO LESS THAN 20FT FROM A PERMANENTLY INSTALLED COOKING APPLIANCE (2020 FBC 907.2.11.3.1).

FIRE ALARM AND SIMILAR DEVICE LOCATIONS NO SCALE

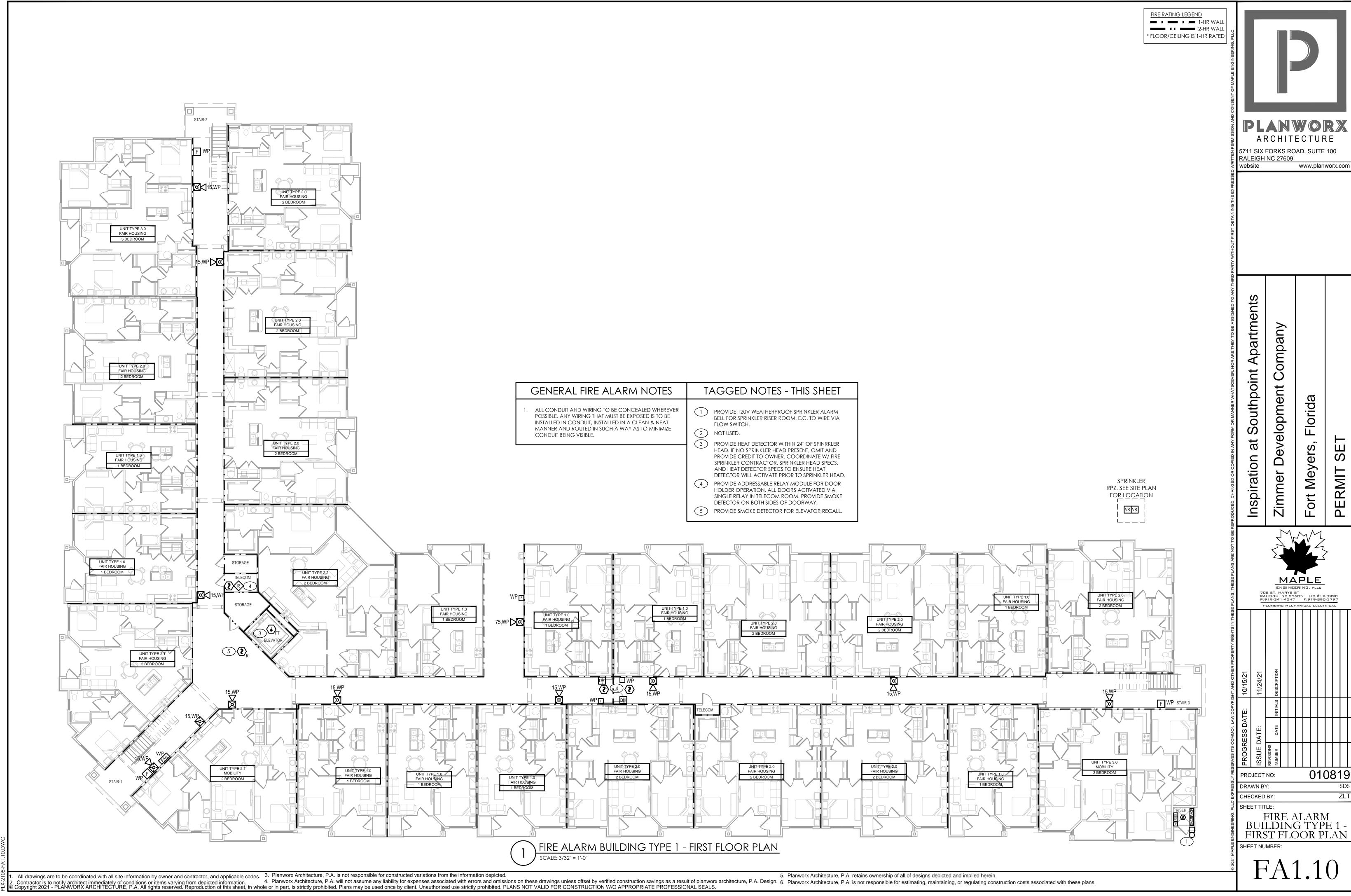
NOTE: **PROVIDE SURGE PROTECTION ON** ALARM RELATED CIRCUITS AND O UNDERGROUND ALARM LINES.

FS G DA М <u>|{}</u>

5. Planworx Architecture, P.A. retains ownership of all of designs depicted and implied herein. . Contractor is to notify architect immediately of conditions or items varying from depicted information. 4. Planworx Architecture, P.A. will not assume any liability for expenses associated with errors and omissions on these drawings as a result of planworx architecture, P.A. Design. 6. Planworx Architecture, P.A. is not responsible for estimating, maintaining, or regulating construction costs associated with these plans. Copyright 2021 - PLANWORX ARCHITECTURE, P.A. All rights reserved. Reproduction of this sheet, in whole or in part, is strictly prohibited. Plans may be used once by client. Unauthorized use strictly prohibited. PLANS NOT VALID FOR CONSTRUCTION W/O APPROPRIATE PROFESSIONAL SEALS.

ALL FIRE POWER		
n all Fire		
	FIRE ALARM SYMBOL LEGEND	
P	FIRE ALARM CONTROL UNIT	
र] _N	FIRE ALARM TERMINAL CABINET (N = TRANSPONDER NUMBER)	
р _N	FIRE SUPPRESSION CONTROL PANEL (N DENOTES SUPPRESSION TYPE)	
PN	GRAPHIC ANNUCIATOR PANEL	
	DIGITAL ALARM COMMUNICATOR TRANSMITTER	
	FIRE ALARM ANNUNCIATOR REMOTE VOICE EVACUATION VOICE (EVACUATION MICROPHONE)	
	WATER FLOW SWITCH	
]	LOW TEMPERATURE SWITCH	
	HIGH PRESSURE SWITCH	
	PRESSURE DETECTOR/SWITCH	
	VALVE SUPERVISORY SWITCH	
x	GAS DETECTOR (X = GAS TYPE EX. CARBON MONOXIDE) PROVIDE CARBON MONOXIDE DETECTOR. PROVIDE SOUNDER BASE WITH TEMPORAL 4 TONE	
со	COMPATIBILITY. INTELLIGENT SOUNDER BASE TO BE EQUAL TO "SYSTEM SENSOR B200S-WH".	
\sum_{x}	HEAT DETECTOR/SENSOR (X= TYPE)	
	PROVIDE BOX, AS SHOWN, TO DENOTE COMBINATION DETECTORS PROVIDE COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR FOR ADA UNITS.	
	PROVIDE SOUNDER BASE WITH LOW FREQUENCY TEMPORAL 3 AND TEMPORAL 4 TONE COMPATIBILITY. INTELLIGENT SOUNDER BASE TO BE EQUAL TO "SYSTEM SENSOR B200S-LF". PROVIDE ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR. DETECTOR EQUAL TO "FIRE LITE SD355CO".	
ן נ	PULL STATION/FIRE ALARM	
>	SMOKE DETECTOR/SENSOR (DEFAULT PHOTOELECTRIC TYPE)	
ION	SMOKE DETECTOR - IONIZATION TYPE (ION)	
ADA,SB	SMOKE DETECTOR IN ADA UNIT. PROVIDE INTELLIGENT LOW FREQUENCY SOUNDER BASE WITH TEMPORAL 3 TONE EQUAL TO "SYSTEM SENSOR B200S-LF". PROVIDE COMPATIBLE PHOTOELECTRIC SMOKE DETECTOR/SENSOR.	
)	SMOKE ALARM (SINGLE STATION)	
<pre>></pre>	SMOKE ALARM (MULTI. STATION) DETECTOR WITH SOUNDER BASE (SB)	
⟩ _{SB} ⟩ _{MC}	DETECTOR - MULTI CRITERIA TYPE (MC)	
	DUCT SMOKE DETECTOR (NFPA 72, SECTION 17.7.5.5)	
<u>N</u>	AUDIBLE ONLY APPLIANCE (WALL MOUNTED)	
15	VISUAL ONLY APPLIANCE (WALL MOUNTED)	
15	VISUAL ONLY APPLIANCE (CEILING MOUNTED) AUDIBLE ONLY APPLIANCE (CEILING MOUNTED)	
∑ 215	AUDIBLE/VISUAL APPLIANCE (CEILING MOUNTED)	
	AUDIBLE ONLY APPLIANCE, SPEAKER (WALL MOUNTED)	
15	AUDIBLE/VISUAL APPLIANCE, SPEAKER (WALL MOUNTED)	
	AUDIBLE ONLY APPLIANCE, SPEAKER (CEILING MOUNTED)	
15	AUDIBLE/VISUAL APPLIANCE, SPEAKER (CEILING MOUNTED)	
	MAGNETIC DOOR HOLDER (SUPPLIED WITH DOOR HARDWARE), CONNECT TO LOCAL SMOKE DETECTOR.	
>	ANSUL HOOD SYSTEM "ALARM" OUTPUT.	
>	FIRE ALARM RELAY. COORDINATE FAIL OPEN/FAIL CLOSED REQUIREMENTS AND VOLTAGES WITH APPLICATION.	
>	FIRE ALARM CONTROL MODULE. COORDINATE FAIL OPEN/FAIL CLOSED REQUIREMENTS AND VOLTAGES WITH APPLICATION.	
n	SPRINKLER BELL (WALL MOUNTED)	
1 1 1		

PLANWORX ARCHITECTURE 5711 SIX FORKS ROAD, SUITE 100 RALEIGH NC 27609 website www.planworx.com Apartments company Southpoint \mathbf{O} elopment σ 0 at >ers ш Ð S Inspiration \cap Mey Zimmer Ī \mathbf{X} ÷ Ш Ο Ω MAPLE ENGINEERING, PLLC 708 ST. MARYS ST RALEIGH, NC 27605 LIC.#: P-0990 P:919-341-4247 F:919-890-3797 PLUMBING MECHANICAL ELECTRICAL 010819 PROJECT NO: DRAWN BY: CHECKED BY: ZL٦ SHEET TITLE: FIRE ALARM SCHEDULES NOTES AND LEGEND SHEET NUMBER:



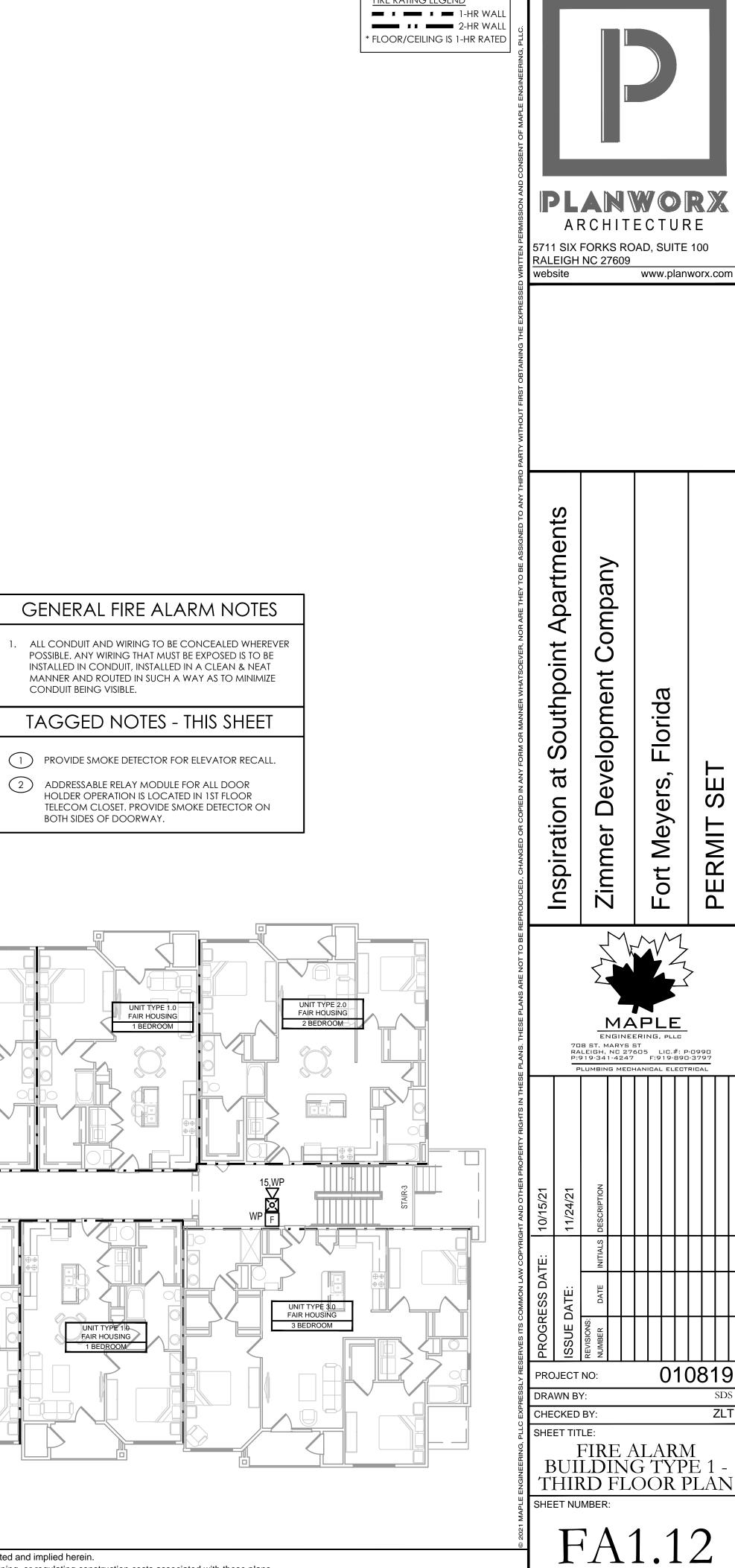
GENERAL FIRE ALARM NOTES	TAGGED NOTES - THIS SHEET
1. ALL CONDUIT AND WIRING TO BE CONCEALED WHEREVER POSSIBLE. ANY WIRING THAT MUST BE EXPOSED IS TO BE INSTALLED IN CONDUIT, INSTALLED IN A CLEAN & NEAT MANNER AND ROUTED IN SUCH A WAY AS TO MINIMIZE CONDUIT BEING VISIBLE.	 PROVIDE 120V WEATHERPROOF SPRINKLER ALARM BELL FOR SPRINKLER RISER ROOM. E.C. TO WIRE VIA FLOW SWITCH. NOT USED. PROVIDE HEAT DETECTOR WITHIN 24" OF SPINRKLER HEAD. IF NO SPRINKLER HEAD PRESENT, OMIT AND PROVIDE CREDIT TO OWNER. COORDINATE W/ FIRE SPRINKLER CONTRACTOR, SPRINKLER HEAD SPECS, AND HEAT DETECTOR SPECS TO ENSURE HEAT DETECTOR WILL ACTIVATE PRIOR TO SPRINKLER HEAD. PROVIDE ADDRESSABLE RELAY MODULE FOR DOOR HOLDER OPERATION. ALL DOORS ACTIVATED VIA SINGLE RELAY IN TELECOM ROOM. PROVIDE SMOKE



FIRE RATING LEGEND



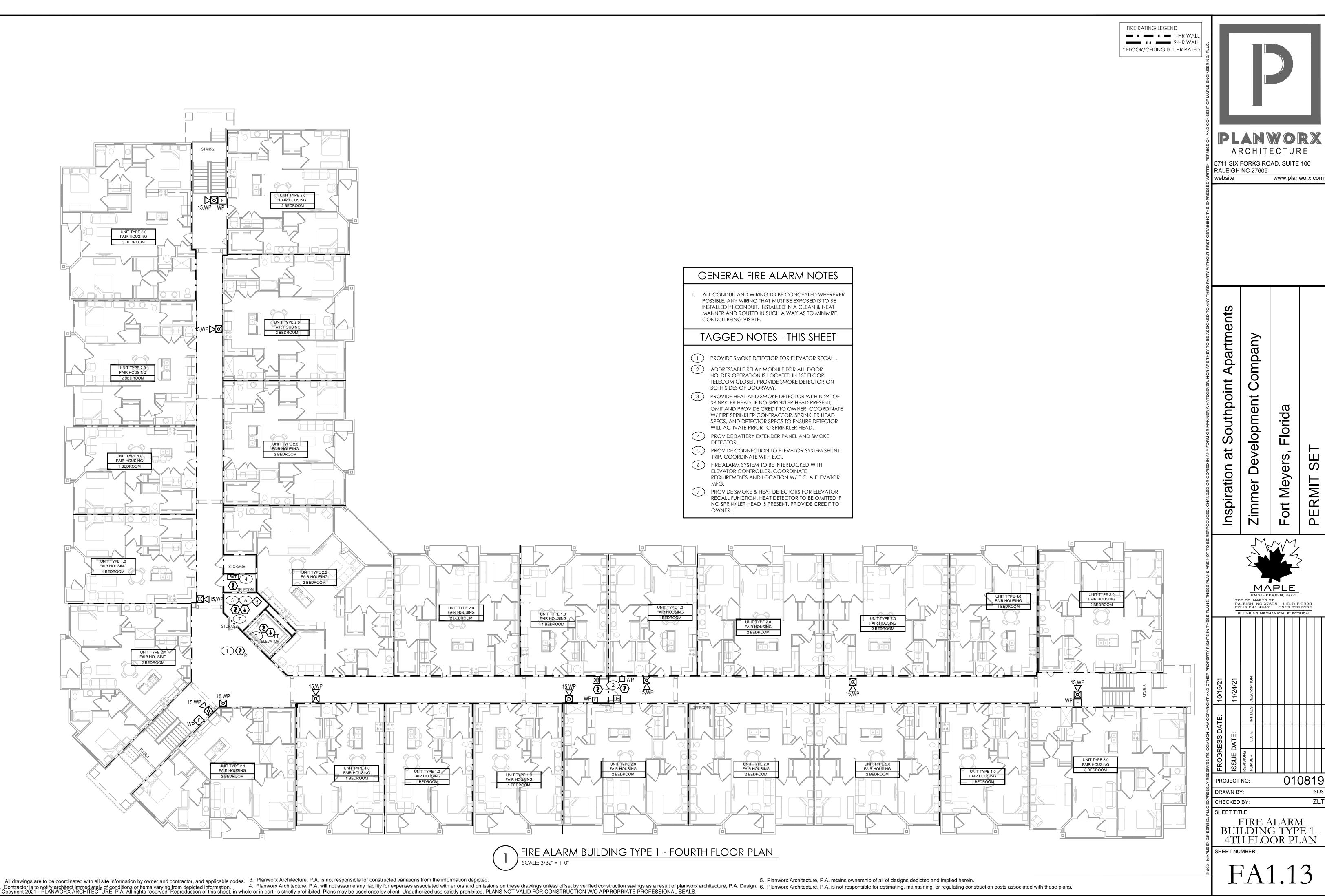
FIRE RATING LEGEND 2-HR WALL

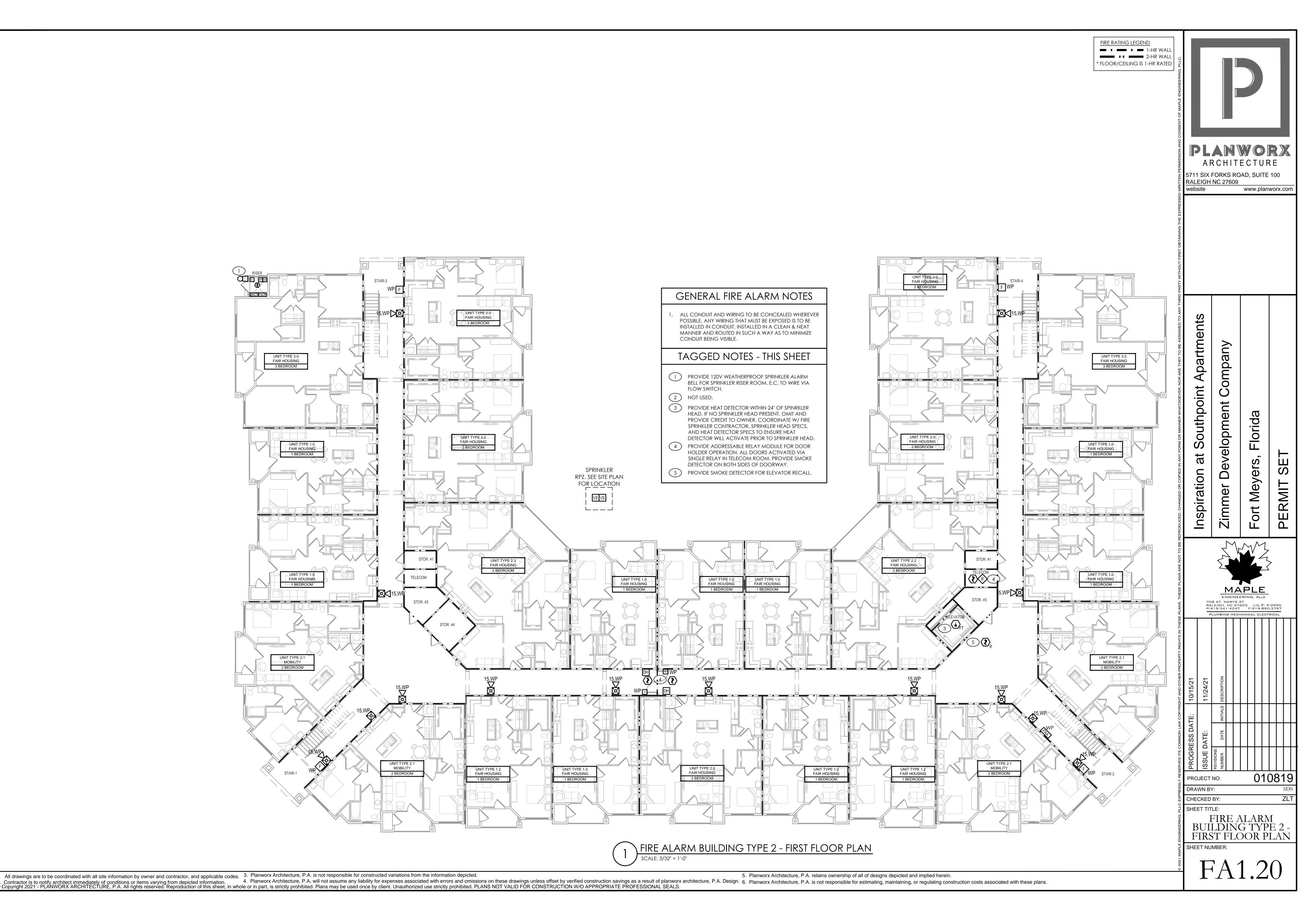


Ш S

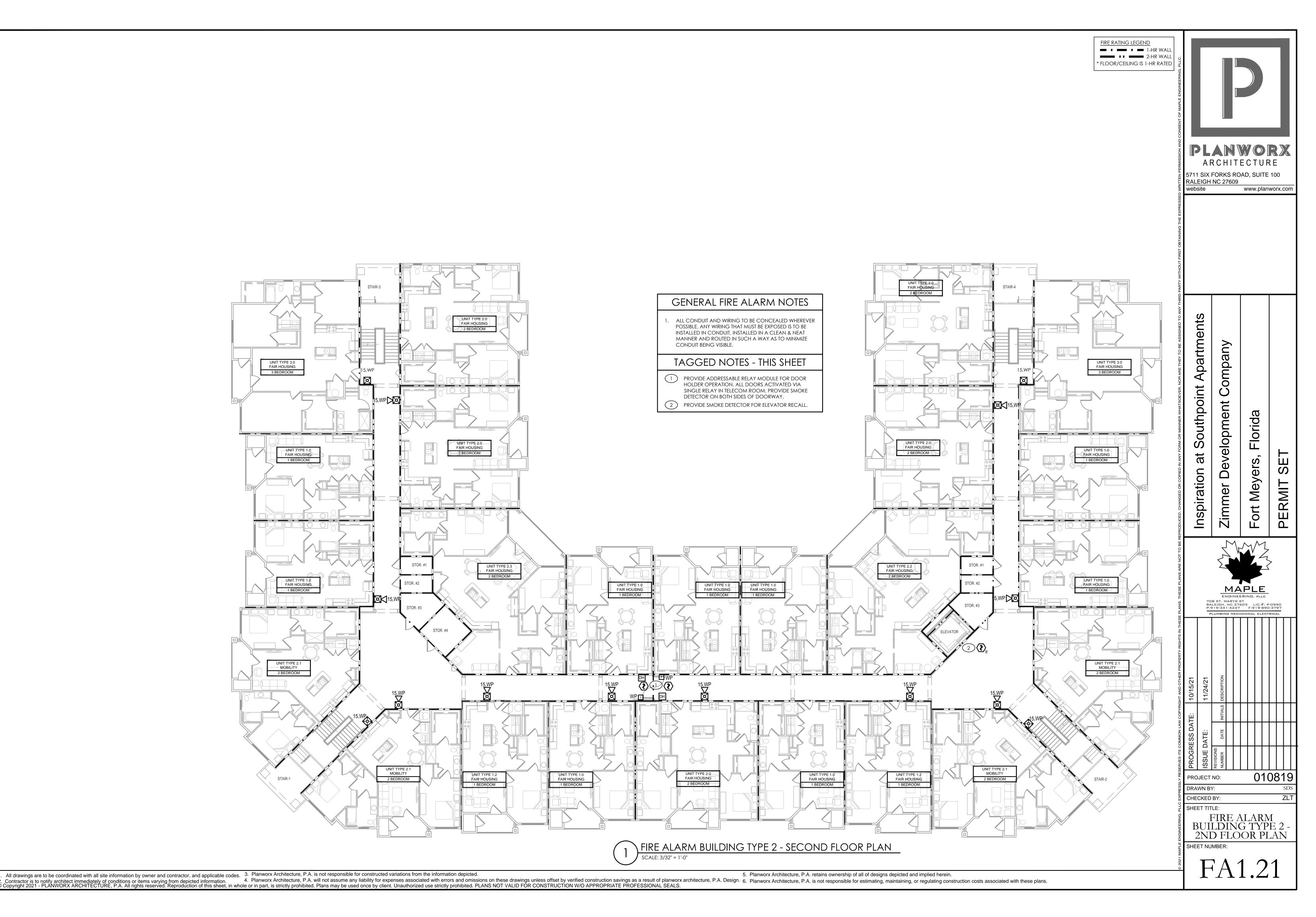
PERMIT

ZL٦

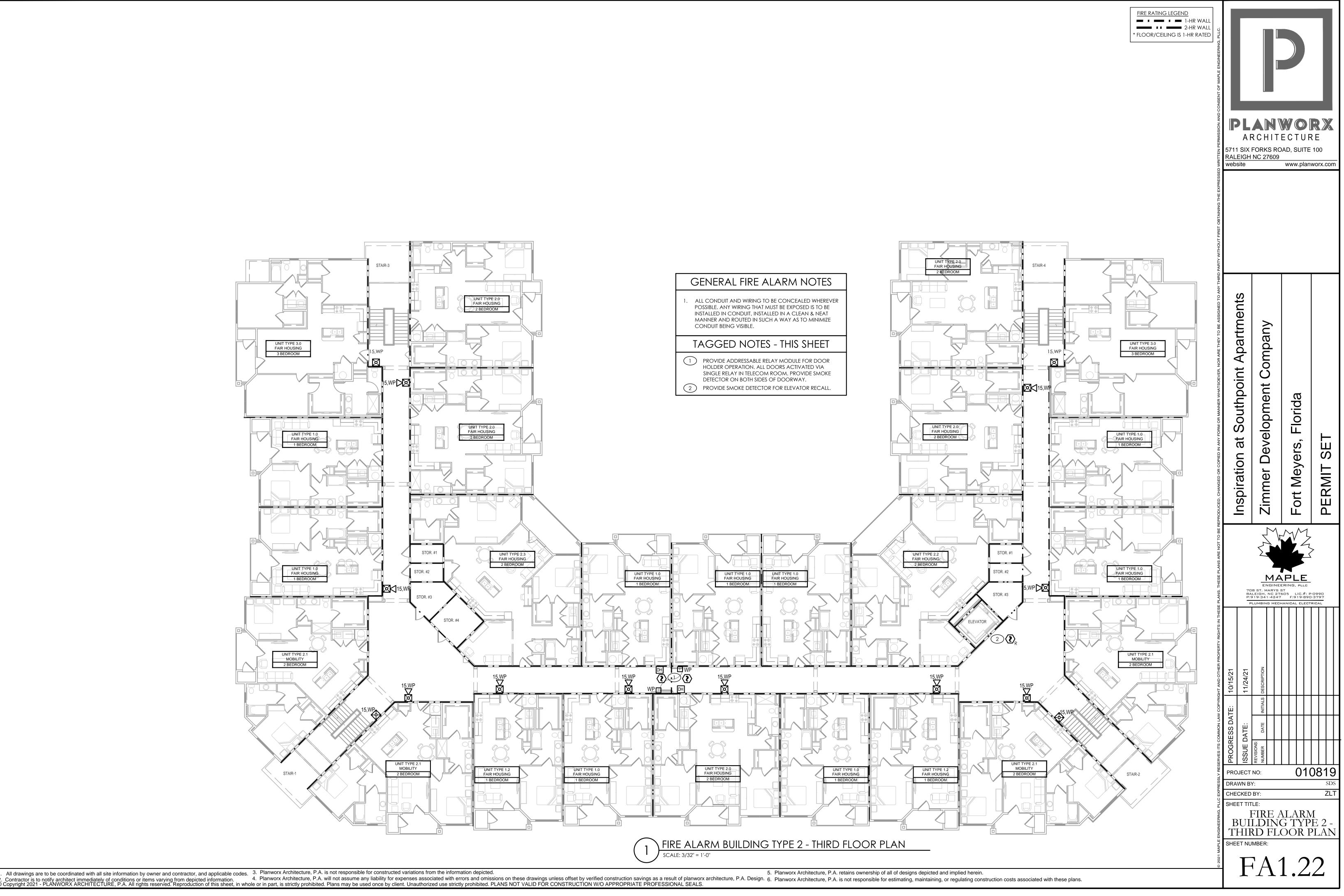


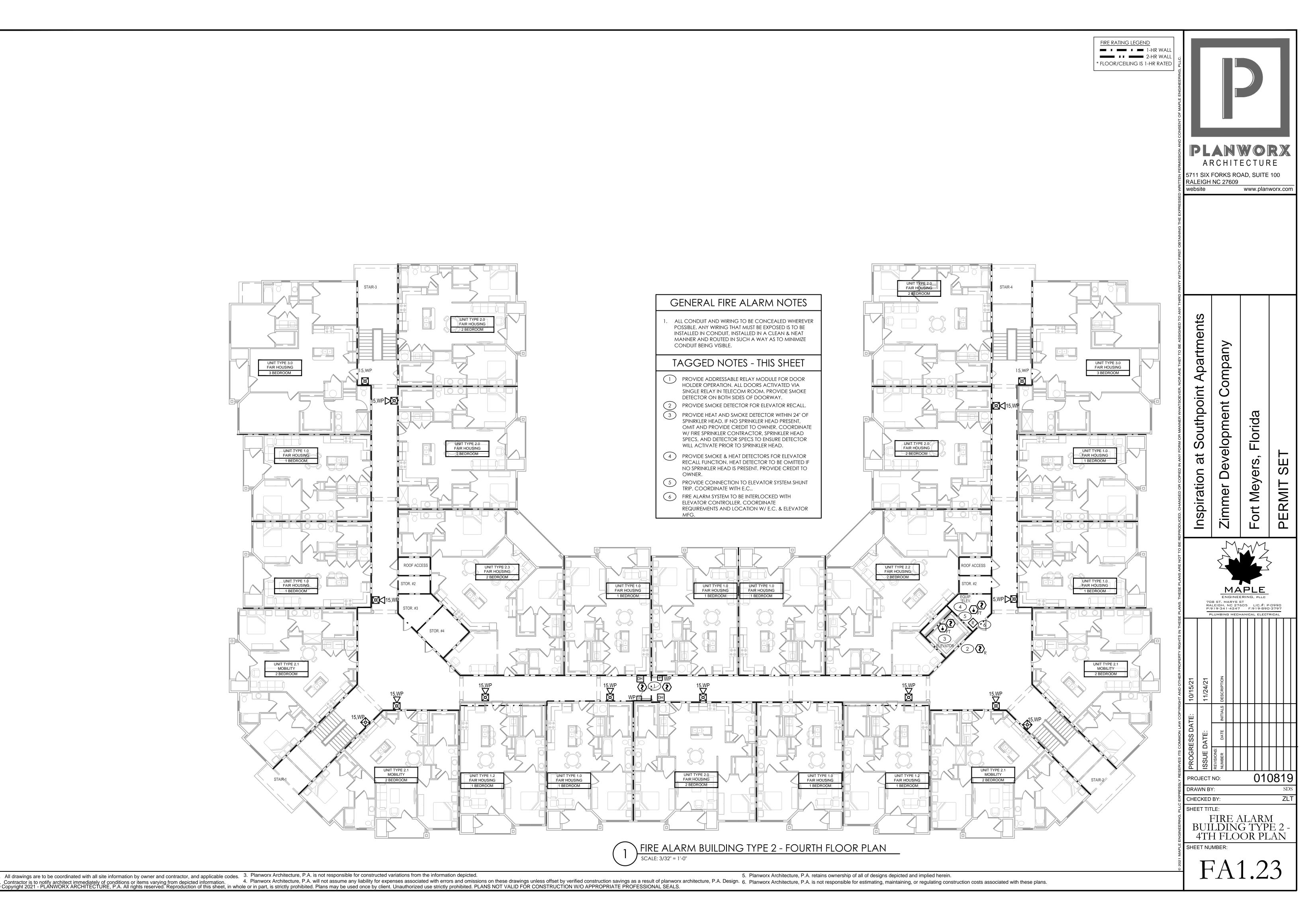


11/24/2021 2:04 PM PLX-2108-FA1.20.DWG



11/24/2021 2:04 PM PLX-2108-FA1.21.DWG

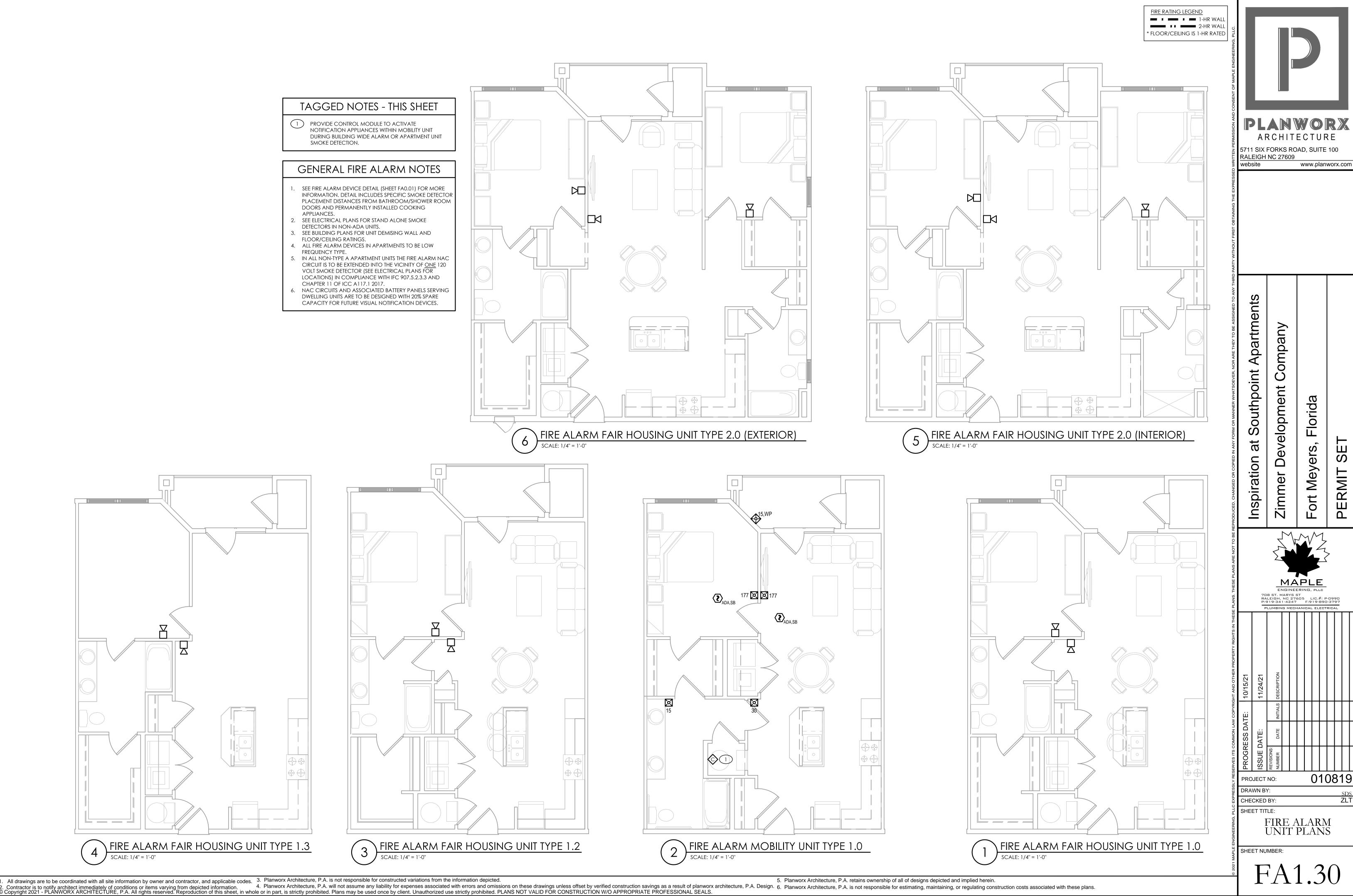




11/24/2021 2:05 PM PI X-2108-FA1 23 DWG

SMOKE DETECTION.

- DOORS AND PERMANENTLY INSTALLED COOKING
- FLOOR/CEILING RATINGS.
- FREQUENCY TYPE.
- VOLT SMOKE DETECTOR (SEE ELECTRICAL PLANS FOR



Ш S

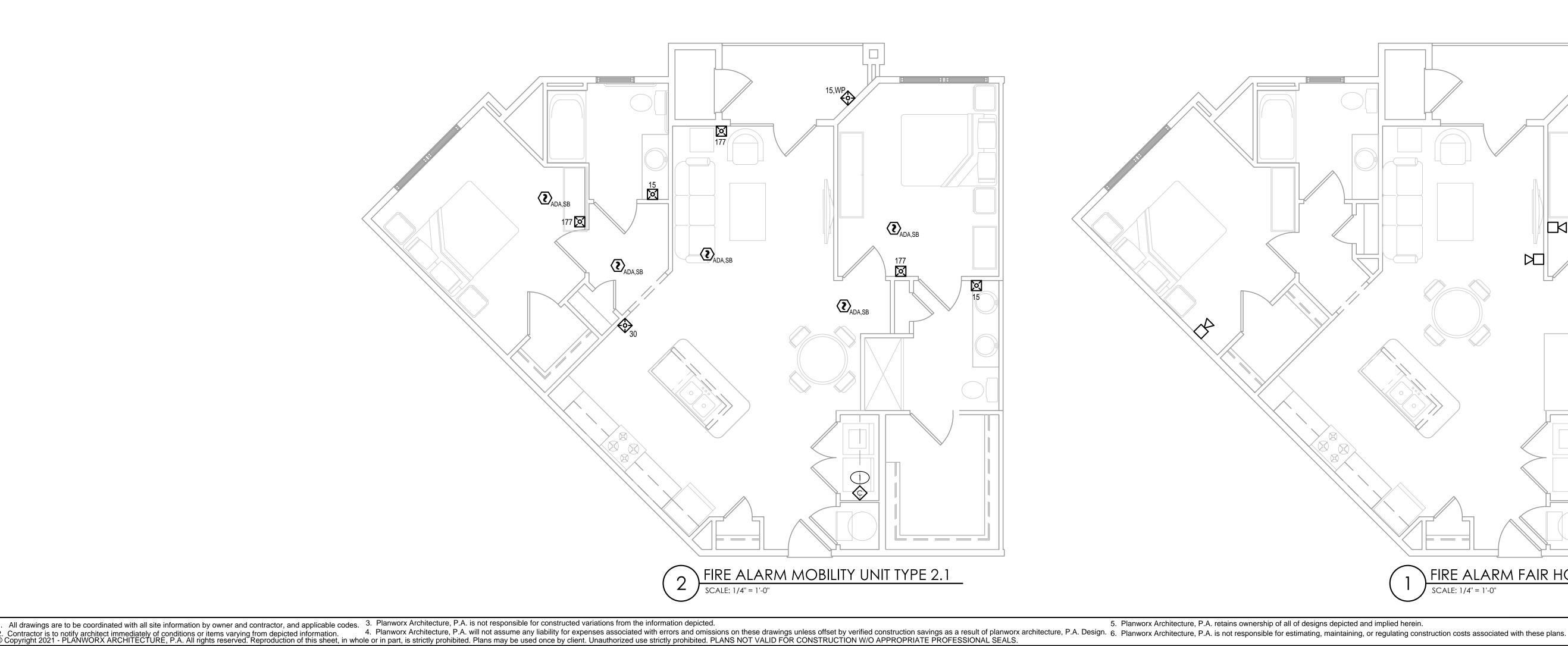
PERMIT

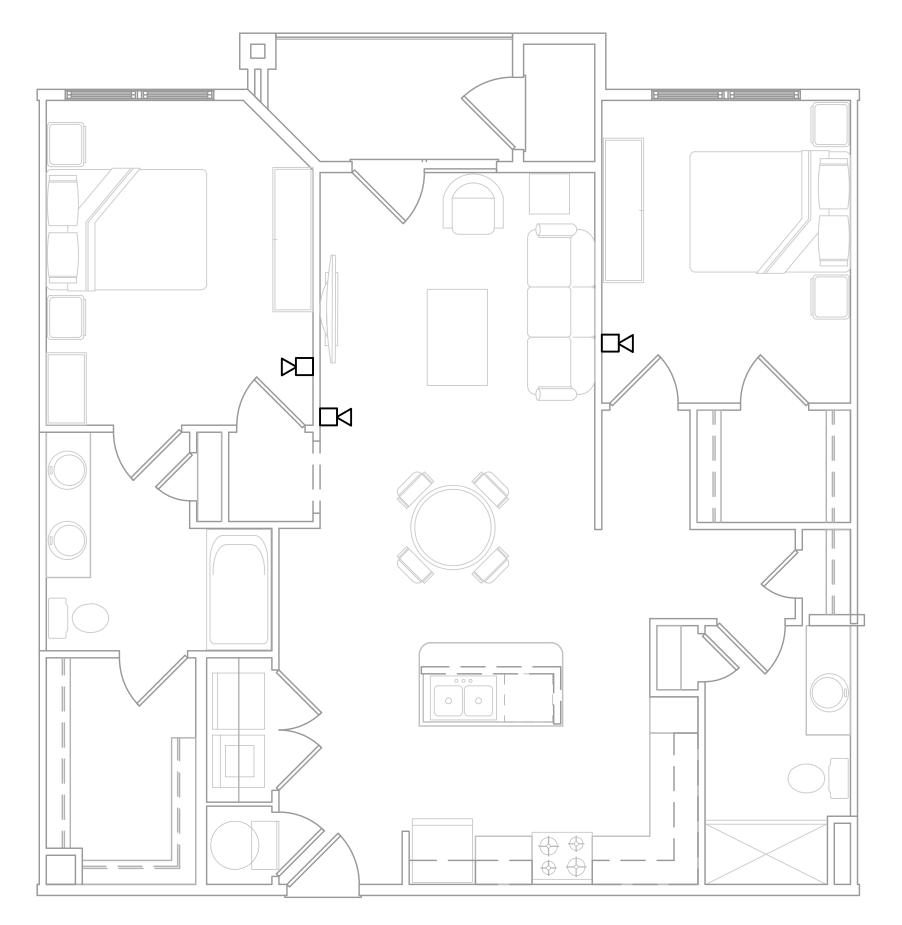
TAGGED NOTES - THIS SHEET

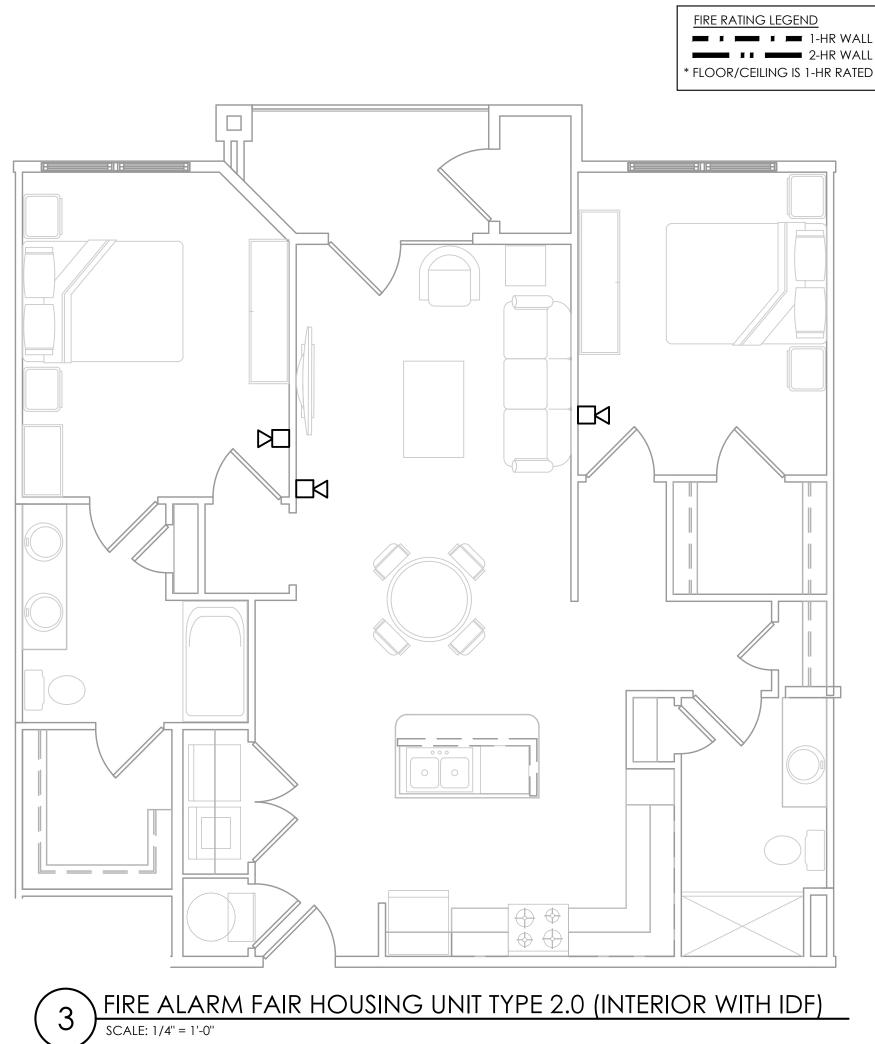
(1) PROVIDE CONTROL MODULE TO ACTIVATE NOTIFICATION APPLIANCES WITHIN MOBILITY UNIT DURING BUILDING WIDE ALARM OR APARTMENT UNIT SMOKE DETECTION.

GENERAL FIRE ALARM NOTES

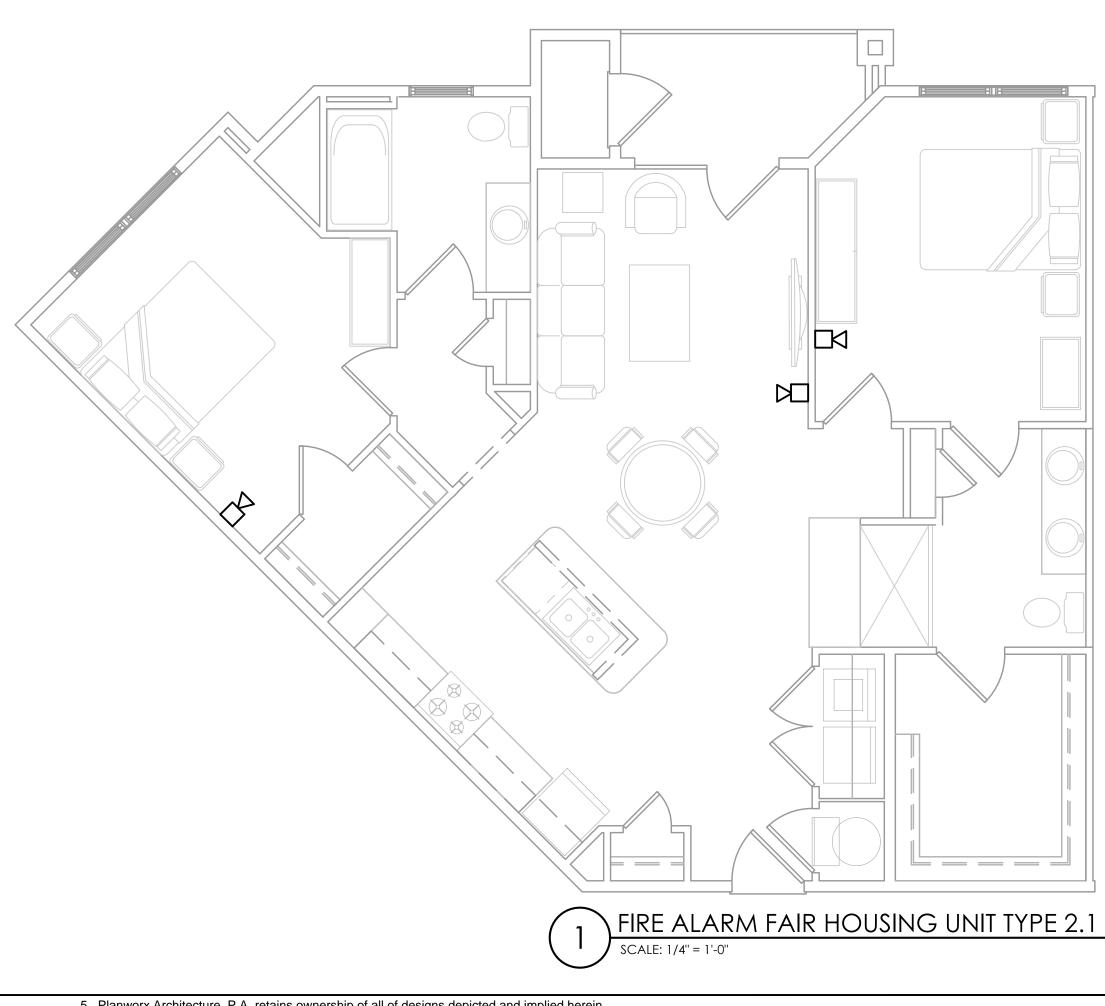
- 1. SEE FIRE ALARM DEVICE DETAIL (SHEET FA0.01) FOR MORE INFORMATION. DETAIL INCLUDES SPECIFIC SMOKE DETECTOR PLACEMENT DISTANCES FROM BATHROOM/SHOWER ROOM DOORS AND PERMANENTLY INSTALLED COOKING APPLIANCES.
- 2. SEE ELECTRICAL PLANS FOR STAND ALONE SMOKE DETECTORS IN NON-ADA UNITS.
- 3. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
- 4. ALL FIRE ALARM DEVICES IN APARTMENTS TO BE LOW FREQUENCY TYPE.
- 5. IN ALL NON-TYPE A APARTMENT UNITS THE FIRE ALARM NAC CIRCUIT IS TO BE EXTENDED INTO THE VICINITY OF ONE 120 VOLT SMOKE DETECTOR (SEE ELECTRICAL PLANS FOR LOCATIONS) IN COMPLIANCE WITH IFC 907.5.2.3.3 AND CHAPTER 11 OF ICC A117.1 2017.
- 6. NAC CIRCUITS AND ASSOCIATED BATTERY PANELS SERVING DWELLING UNITS ARE TO BE DESIGNED WITH 20% SPARE CAPACITY FOR FUTURE VISUAL NOTIFICATION DEVICES.

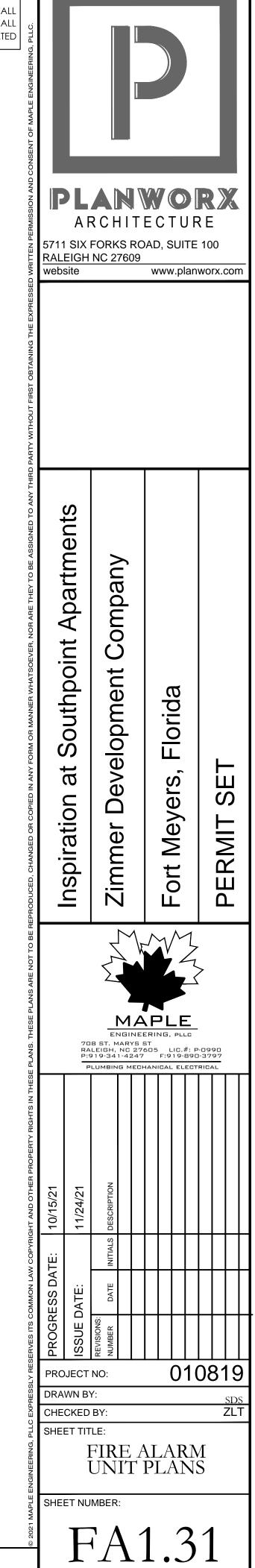


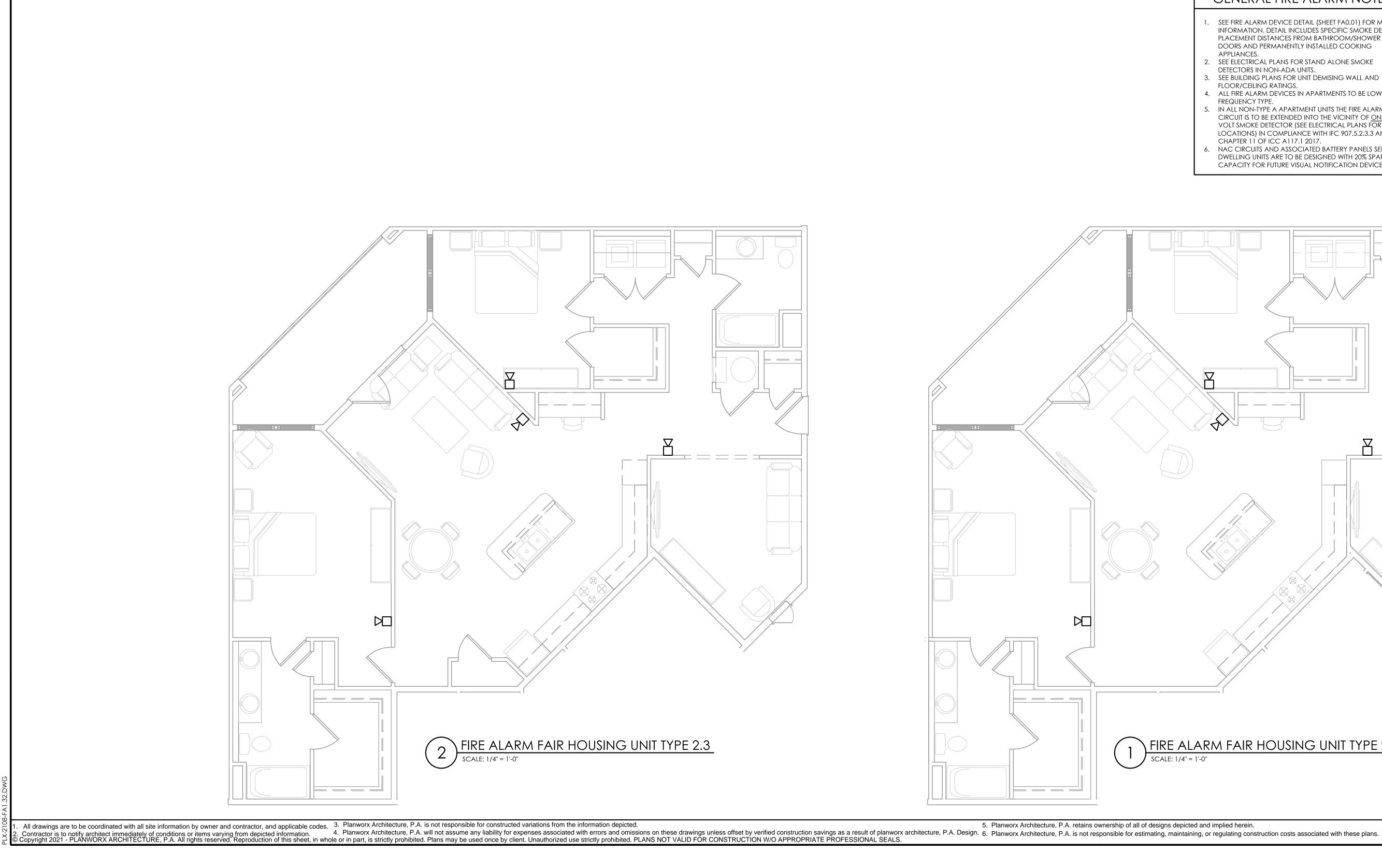


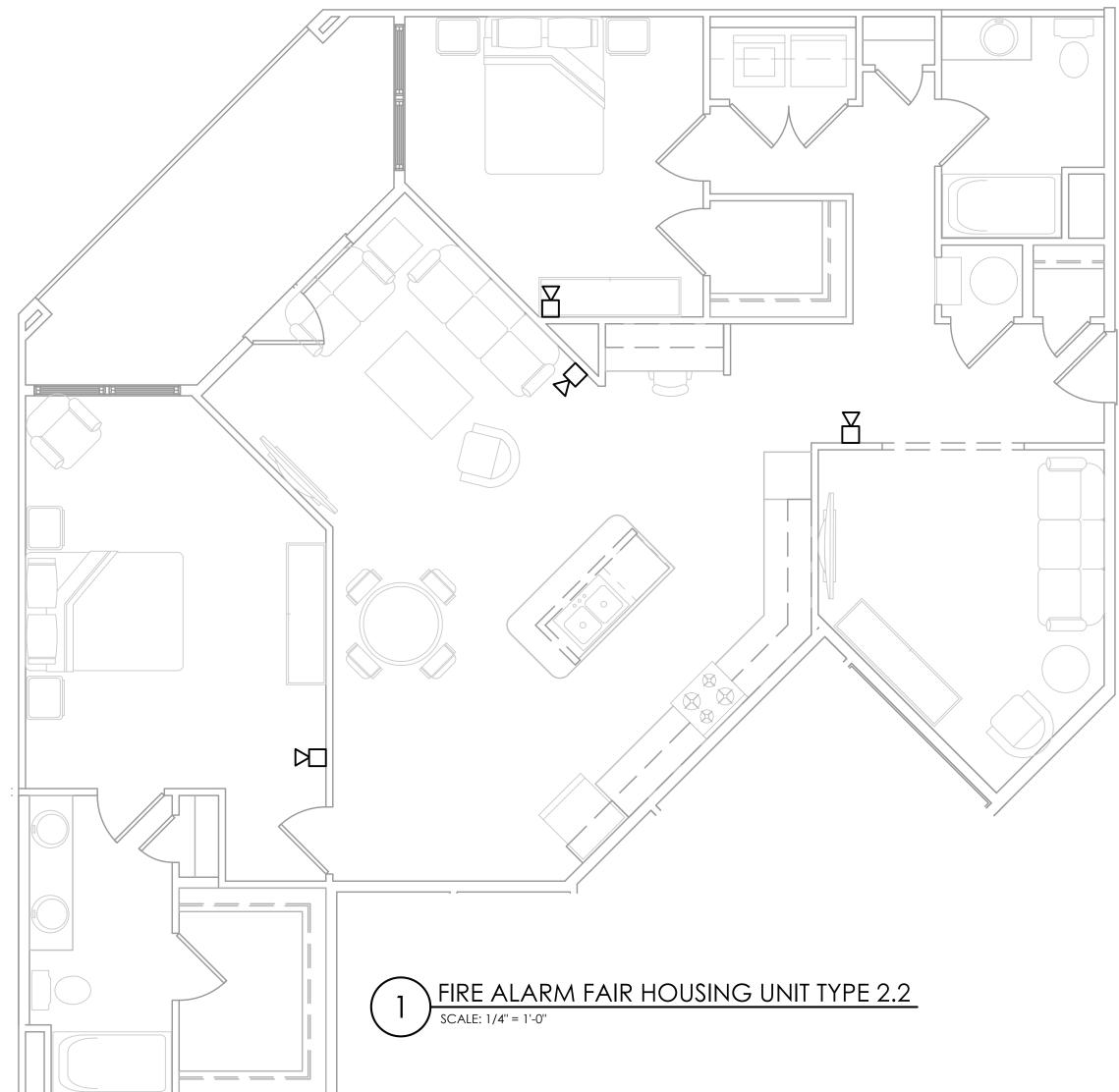






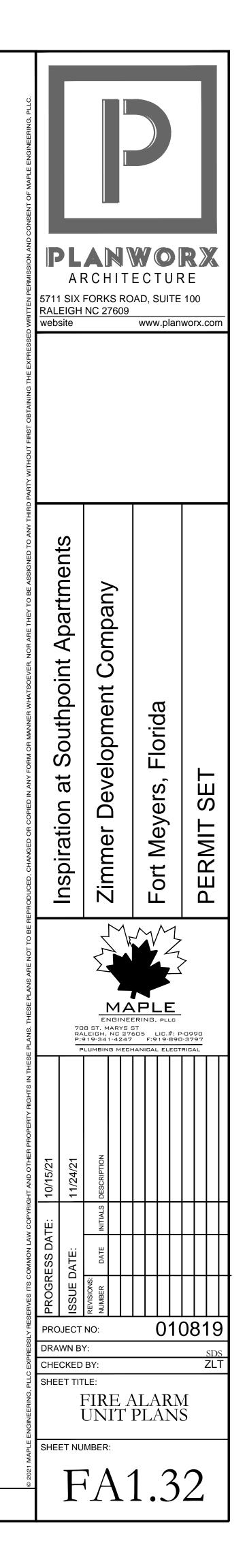


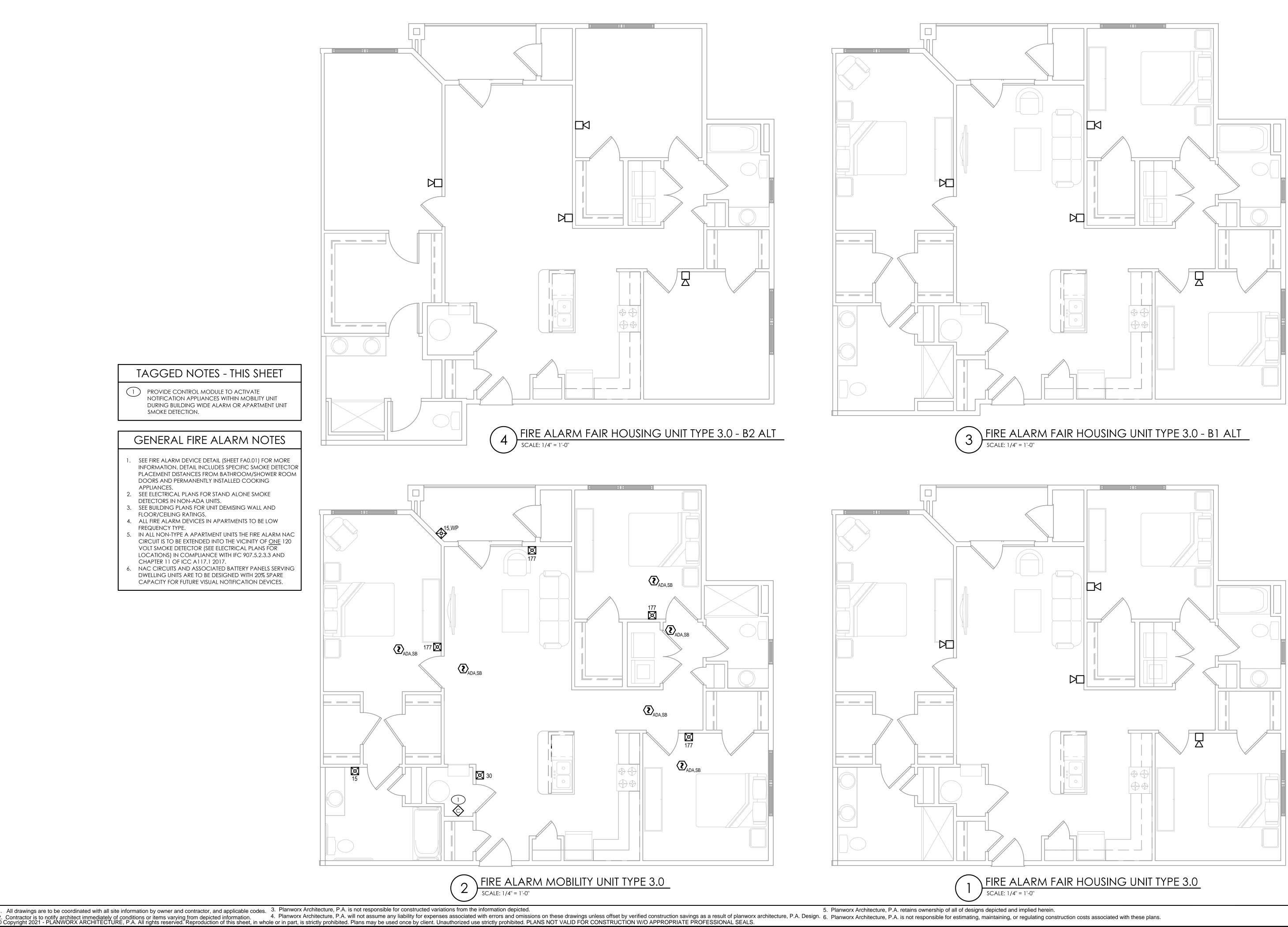






- SEE FIRE ALARM DEVICE DETAIL (SHEET FA0.01) FOR MORE INFORMATION. DETAIL INCLUDES SPECIFIC SMOKE DETECTOR PLACEMENT DISTANCES FROM BATHROOM/SHOWER ROOM DOORS AND PERMANENTLY INSTALLED COOKING APPLIANCES.
- 2. SEE ELECTRICAL PLANS FOR STAND ALONE SMOKE DETECTORS IN NON-ADA UNITS.
- 3. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
- 4. ALL FIRE ALARM DEVICES IN APARTMENTS TO BE LOW FREQUENCY TYPE.
- 5. IN ALL NON-TYPE A APARTMENT UNITS THE FIRE ALARM NAC CIRCUIT IS TO BE EXTENDED INTO THE VICINITY OF ONE 120 VOLT SMOKE DETECTOR (SEE ELECTRICAL PLANS FOR LOCATIONS) IN COMPLIANCE WITH IFC 907.5.2.3.3 AND CHAPTER 11 OF ICC A117.1 2017.
- 6. NAC CIRCUITS AND ASSOCIATED BATTERY PANELS SERVING DWELLING UNITS ARE TO BE DESIGNED WITH 20% SPARE CAPACITY FOR FUTURE VISUAL NOTIFICATION DEVICES.





TAGGED NOTES - THIS SHEET

1 PROVIDE CONTROL MODULE TO ACTIVATE NOTIFICATION APPLIANCES WITHIN MOBILITY UNIT DURING BUILDING WIDE ALARM OR APARTMENT UNIT SMOKE DETECTION.

GENERAL FIRE ALARM NOTES

- . SEE FIRE ALARM DEVICE DETAIL (SHEET FA0.01) FOR MORE INFORMATION. DETAIL INCLUDES SPECIFIC SMOKE DETECTOR PLACEMENT DISTANCES FROM BATHROOM/SHOWER ROOM DOORS AND PERMANENTLY INSTALLED COOKING APPLIANCES.
- SEE ELECTRICAL PLANS FOR STAND ALONE SMOKE DETECTORS IN NON-ADA UNITS.
- 3. SEE BUILDING PLANS FOR UNIT DEMISING WALL AND FLOOR/CEILING RATINGS.
- 4. ALL FIRE ALARM DEVICES IN APARTMENTS TO BE LOW FREQUENCY TYPE.
- 5. IN ALL NON-TYPE A APARTMENT UNITS THE FIRE ALARM NAC CIRCUIT IS TO BE EXTENDED INTO THE VICINITY OF <u>ONE</u> 120 VOLT SMOKE DETECTOR (SEE ELECTRICAL PLANS FOR LOCATIONS) IN COMPLIANCE WITH IFC 907.5.2.3.3 AND CHAPTER 11 OF ICC A117.1 2017.
- 6. NAC CIRCUITS AND ASSOCIATED BATTERY PANELS SERVING DWELLING UNITS ARE TO BE DESIGNED WITH 20% SPARE CAPACITY FOR FUTURE VISUAL NOTIFICATION DEVICES.

