ABBREVIATIONS

(E)	EXISTING ITEM
(ED)	EXISTING ITEM TO BE DEMOLISHED
(ER)	EXISTING ITEM TO BE RELOCATED
(F)	FUTURE
(N)	NEW
(RL)	EXISTING ITEM RELOCATED
A	AMP, AMPERE
A/V, AV	AUDIO VISUAL
AC	AIR CONDITIONING
AF/ AT	AMP FRAME / AMP TRIP
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPS INTERUPPTING CURRENT
AL	ALUMINUM
ARF	ABOVE RAISED FLOOR
ARF	ARC FAULT
AS/ AFU	AMP SWITCH / AMP FUSE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CENTER LINE
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CONTR	CONTRACTOR
CONV	CONVENIENCE
CT	CURRENT TRANSFORMER
CU	COPPER
D.O.	DRAWOUT
DC	DOOR CONTACT
DISC	DISCONNECT
DIST	DISTRIBUTION
DW	DISHWASHER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM, EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FA	FIRE ALARM
FDR	FEEDER
FIXT	FIXTURE
FL	FLOOR
FP	FIRE PROTECTION
G, GND	GROUND
GEN	GENERATOR
GF	GROUND FAULT
GFI	GROUND FAULT INTERRUPTOR
HOA	HAND OFF AUTOMATIC SWITCH
HP	HORSE POWER
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HWH	HOT WATER HEATER
HZ	HERTZ
IG	ISOLATED GROUND
JB	JUNCTION BOX
kAIC	KILO AMPERE INTERRUPTING CURRENT
kCMILS	THOUSAND CIRCULAR MILS
kVA	KILOVOLT AMPS
kW	KILOWATTS
LSIG	LONG, SHORT INSTANTANEOUS AND GROUND FAULT TRIP FUNCTION
LTG	LIGHTING

ABBREVIATIONS

MAX	MAXIMUM
MB	MOTORIZED BACKBOARD
MC	METAL CLAD
MC	MOTORIZED CURTAIN
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURER
MH	MOUNTING HEIGHT
MI	MINERAL INSULATED
MLO	MAIN LUGS ONLY
MOD	MOTORIZED OVERHEAD DOOR
MPS	MOTORIZED PROJECTION SCREEN
MS	MOTORIZED SHADES
MTD	MOUNTED
MW	MICROWAVE
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
No	NUMBER
NTS	NOT TO SCALE
OFE	OWNER FURNISHED EQUIPMENT
P	POLES
PB	PULL BOX
PC	PLUMBING CONTRACTOR
PH	PHASE
PL	OUTLET DEVICE WITH PLATE ONLY
PNL	PANEL
PPE	PRE-PURCHASED EQUIPMENT
PRT	PRINTER
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QUAD	QUADRAPLEX
REC	RECESSED
RECEPT	RECEPTACLE
REF	REFRIGERATOR
RF	RETURN FAN
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SB	SCORE BOARD
SEC	SECONDARY
SF	SUPPLY FAN
SKRU	SOLENOID KEY RELEASE UNIT
SPD	SURGE PROTECTION DEVICE
SSCAF	SHORT CIRCUIT COORDINATION ARC FLASH
ST	SHUNT TRIP
SW	SWITCH
SWBD	SWITCH BOARD
SWGR	SWITCH GEAR
TC	(TEL/COM) TELECOMMUNICATIONS
TDR	TIME DELAY RELAY
TEL	TELEPHONE
TF	TRANSFER FAN
TP	TAMPER PROOF
TPS	TWISTED PAIR SHIELDED
TYP	TYPICAL
UC	UNDERCOUNTER
UCR	UNDER COUNTER REFRIGERATOR
UF	UNDERFLOOR
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPS
W	WATTS
WP	WEATHER PROOF
XFMR	TRANSFORMER

GENERAL NOTES

1. THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
2. THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, UL AND FM GUIDELINES, MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, BUILDING OPERATOR'S REQUIREMENTS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
4. INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
5. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
6. THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS; AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB-CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GC. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED.
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION FROM ALL OTHER TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL.
8. CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES.
9. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID.
11. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.
12. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER.
13. THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED.
14. EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT.
15. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM PENETRATIONS AND SHEAR WALL PENETRATIONS.
16. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.
17. PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
18. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL.
19. CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
20. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
21. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
23. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS.
24. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
25. RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
26. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
27. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
28. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES WITHOUT THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. BALA'S ELECTRONIC FILES ARE SAVED IN VERSION REVIT 2022 AND ARE COMPATIBLE WITH ALL VERSIONS AFTER THAT. BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH THE CONTRACTOR'S HARDWARE OR THEIR SOFTWARE.
DATA CONTAINED ON THESE ELECTRONIC FILES ARE PART OF BALA'S "INSTRUMENTS OF SERVICE" AND ARE COPYRIGHTED. CONTRACTOR'S USE OF FILES IS FOR THE SOLE PURPOSE AS A CONVENIENCE IN THE PREPARATION OF DRAWINGS FOR THE REFERENCED PROJECT. ANY OTHER USE OR REUSE BY CONTRACTOR IS UNLAWFUL.

FIRE ALARM GENERAL NOTES

1. PROVIDE ALL EQUIPMENT, MATERIALS, LABOR AND PERFORM ALL OPERATIONS ASSOCIATED WITH THE INSTALLATION OF FIRE ALARM NOTIFICATION DEVICES (AUDIO AND VISUAL), SMOKE DETECTORS, HEAT DETECTORS AND SMOKE DUCT DETECTORS FOR AC UNITS AND OTHER RELATED FIRE ALARM DEVICES AS REQUIRED.
2. PROVIDE FIRE ALARM SYSTEM COVERAGE FOR THE THE NEW TENANT AREA.
3. THE SYSTEM SHALL BE COMPLETELY WIRED, CONNECTED, TESTED AND VERIFIED TO BE IN GOOD OPERATING CONDITION.
4. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING FIRE ALARM SYSTEM CONDITION PRIOR TO SUBMISSION OF BIDS.
5. COORDINATE WITH THE BUILDING'S FIRE ALARM VENDOR FOR CONNECTION OF NEW FIRE ALARM DEVICES TO THE EXISTING BASE BUILDING FIRE ALARM SYSTEM.
6. THE CONTRACTOR SHALL PAY ALL CHARGES FOR THE CONNECTION TO, MODIFICATIONS TO THE EXISTING SYSTEM AND REPROGRAMMING OF THE EXISTING BASE BUILDING FIRE ALARM SYSTEM. FIRE ALARM VENDORS FEE SHALL BE INCLUDED IN THE BID.
7. ALL EQUIPMENT SHALL BE UL LISTED.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, AMERICANS DISABILITY ACT (ADA), NFPA 72 NATIONAL FIRE ALARM CODE, FIRE DEPARTMENT RULES AND REGULATIONS, APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE WITH AMENDMENTS AND THE LANDLORDS DESIGN CRITERIA REQUIREMENTS FOR TENANT ALTERATIONS.
9. UPON COMPLETION OF ALL FIRE ALARM WORK AND ASSOCIATED TESTS, THE CONTRACTOR SHALL FILE AN APPLICATION WITH THE FIRE DEPARTMENT FOR A CERTIFICATE OF APPROVAL OF THE SYSTEM.
10. SUBMIT CERTIFICATE OF APPROVAL TO THE BUILDING ENGINEER OR OWNERS REPRESENTATIVE BEFORE REQUESTING FINAL PAYMENT AND ACCEPTANCE OF WORK.
11. ALL ITEMS AND EQUIPMENT SHALL BE COMPATIBLE WITH THE EXISTING BASE BUILDING FIRE ALARM SYSTEM. CONTRACTOR SHALL COORDINATE WITH BUILDINGS FIRE ALARM VENDOR FOR EXACT EQUIPMENT SPECIFICATION.
12. FIRE ALARM SPEAKER OR HORN, WHETHER IN COMBINATION WITH A STROBE LIGHT UNIT OR AS A STAND ALONE DEVICE SHALL BE COMPATIBLE WITH THE EXISTING BASE BUILDING FIRE ALARM SYSTEM AND SHALL BE UL/FM LISTED. COLORS AND FINISHES SHALL BE COORDINATED WITH ARCHITECT.
13. FIRE ALARM STROBE LIGHTS, WHETHER IN COMBINATION WITH A SPEAKER OR HORN UNIT OR AS A STAND ALONE DEVICE, SHALL HAVE A XENON STROBE OR EQUIVALENT. WITH A CLEAR WHITE LENS. MAXIMUM PULSE DURATION OF 0.2 SECONDS (MAX DUTY CYCLE OF 40%), 75 CANDELA MINIMUM, FLASH RATE MINIMUM OF 1 HZ/MAXIMUM 3 HZ AND WITH ADA AND SHALL BE UL/FM LISTED. UNIT SHALL BE MANUFACTURED BY FARADAY, WHEELOCK OR APPROVED EQUAL.
14. AREA AND SMOKE DETECTORS SHALL BE BUILDING STANDARD.
15. CONTROL MODULES SHALL BE BUILDING STANDARD.
16. PROVIDE #14 AWG WIRING (MINIMUM) FOR ALL DEVICES, U.O.N. BY BUILDING'S FIRE ALARM VENDOR. ALL SPEAKER OR HORN CABLING SHALL BE TWISTED SHIELDED TYPE OR AS SPECIFIED BY BUILDINGS FIRE ALARM VENDOR. FIRE ALARM CABLING SHALL BE UL/FM APPROVED, COLORED FIRE DEPARTMENT RED, PLENUM RATED, CABLE PRINTING AS PER UL1424; MUST BEAR ADDITIONAL DESCRIPTION "ALSO CLASSIFIED CERT. FIRE.
17. WIRING SHALL BE INSTALLED IN HEAVY WALL THREADED RIGID GALVANIZED CONDUIT IN VERTICAL RISERS AND AREA WHERE SUBJECT TO MECHANICAL DAMAGE.
18. ALL WIRING IN EXPOSED CEILING SHALL BE IN HEAVY WALL THREADED RIGID GALVANIZED STEEL CONDUIT.
19. ALL WIRING IN MECHANICAL ROOM AND ELEVATOR ROOM SHALL BE IN HEAVY WALL THREADED RIGID GALVANIZED STEEL CONDUIT.
20. WIRING MAY BE RUN EXPOSED IN HUNG CEILINGS, PROVIDED IT IS UL LISTED AND APPROVED POWER LIMITED/PROTECTIVE SIGNALING CABLE FPL OR EQUAL (TEFLON COATED/PLENUM RATED)
21. ALL LOW VOLTAGE WIRING SHALL COMPLY WITH NFPA 72 AND LOCAL AND STATE BUILDING CODES.
22. THE FIRE ALARM DEVICES SHALL BE INSTALLED IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH APPROVED MANUFACTURER'S WIRING DIAGRAM. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT WIRING, WIRING, OUTLET BOXES, JUNCTION BOXES AND SIMILAR DEVICES NECESSARY FOR THE COMPLETE FIRE ALARM INSTALLATION.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NEW LIFE SAFETY DEVICES AND ASSOCIATED CABLING AND CONDUIT. THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL REQUIRED MODIFICATIONS AND CONNECTIONS TO THE FIRE ALARM SYSTEM WHICH INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING;
    a. HARDWARE MODIFICATIONS TO THE FIRE COMMAND STATION PANEL.
    b. MODIFICATIONS/REPROGRAMMING OF FIRE ALARM SYSTEM SOFTWARE
    c. INCORPORATE NEW PANELS OR DEVICES TO EXISTING DATA GATHERING PANELS.
    d. ADDITIONAL POWER FROM NEW FUSE CUT-OUTS TO SERVE ADDITIONAL SYSTEM OR SUB-SYSTEM.
24. ALL RELOCATED AND NEW EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL AND INTERNATIONAL BUILDING CODES AND THE REQUIREMENTS AS SET FORTH BY THE NEW AMERICANS WITH DISABILITIES ACT (ADA) WHICH INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING;
25. STROBE LIGHTS SHALL BE INSTALLED 80" ABOVE FINISHED FLOOR, OR 6" INCHES BELOW THE CEILING, WHICHEVER IS LOWER.
    a. AUDIBLE DEVICES TAPPED AT WATTAGE SETTING WHICH ALLOW FOR SOUND PRESSURE LEVELS OF THE UNIT TO EXCEED THE LEVEL IN THE ROOM BY 15 dBA, WHICHEVER IS HIGHER BUT NOT TO EXCEED 120 dBA.
26. LIFE SAFETY SPEAKER OR HORNS SHALL BE ALTERNATELY WIRED SO THAT HALF OF THE OF THE SPEAKER OR HORNS ARE CONNECTED TO EACH LOOP.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING ALL EXISTING BASE BUILDING LIFE SAFETY DEVICES WHICH HAVE BEEN RELOCATED OR TEMPORARILY REMOVED DURING CONSTRUCTION. COORDINATE CHANGES LOCATION WITH ARCHITECT AND LEAVE IN OPERATIONAL STATE IN ACCORDANCE WITH ALL GOVERNING CODES. INCLUDING THE NEW ADA. PROVIDE NEW WIRING AS REQUIRED BY FA VENDOR.
28. THE CONTRACTOR SHALL SURVEY ALL THE SPACES PRIOR TO SUBMISSION OF BID AND INCLUDE IN Their PROPOSAL THE REPLACEMENT OF ALL LIFE SAFETY DEVICES WHICH WERE INTENDED TO BE REUSED AND HAVE BEEN DESTROYED OR LOST DURING DEMOLITION.
29. THE CONTRACTOR SHALL SEPARATELY ZONE LIFE SAFETY DEVICES SHOWN ON RISER DIAGRAM AND CONNECT TO THE EXISTING BASE BUILDING FIRE ALARM SYSTEM.
30. SECURELY FASTEN IN POSITION ALL DEVICES AND WIRES USED IN THE FIRE ALARM SYSTEM. SUPPORT WIRING INDEPENDENTLY FROM BUILDING STRUCTURE, DO NOT USE HVAC DUCT, PIPES. LIGHTS, HUNG CEILING TO SUPPORT FIRE ALARM WIRING.
31. TWO OR MORE VISIBLE APPLIANCE IN THE SAME FIELD OF VIEW SHALL BE SYNCHRONIZED.
32. ALL CABLE AND CONDUIT PENETRATIONS THRU FIRE RATED WALLS AND FLOORS SHALL BE FIRESTOPPED IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODE.
33. WHERE SHIELDED WIRING IS USED, SPLICE AND INSULATE DRAIN WIRE FOR THE FULL LENGTH OF THE WIRE RUN. SHIELDS TO BE GROUNDED ONLY AS INDICATED. ALL SHIELDED CABLE SHALL HAVE INSULATING JACKET.
34. SPLICES IN VERTICAL RISERS ARE PROHIBITED EXCEPT WHEN THE LENGTH OF CONDUCTORS EXCEEDS 150 FT, IN WHICH CASE AN APPROVED TERMINAL CABINET MAY BE USED, SPLICES IN HORIZONTAL RUNS SHALL BE AVOIDED, IF NECESSARY, THEY SHALL BE MADE IN APPROVED JUNCTION BOXES. SPLICES SHALL BE MADE WITH UL LISTED MECHANICAL CONNECTOR OR SOLDERED AND TAPED.
35. IDENTIFY FIRE ALARM SYSTEM TERMINAL AND JUNCTION LOCATIONS IN ACCORDANCE WITH NFPA STANDARD 70, SECTION 760 3. TERMINAL AND JUNCTION BOXES SHALL BE PAINTED RED AND STENCILED IN WHITE LETTERS "FIRE ALARM".
36. A TRAINED MANUFACTURER'S TECHNICAL REPRESENTATIVE SHALL TEST THE COMPLETED SYSTEM FOR PROPER OPERATION IN THE PRESENCE OF THE OWNERS REPRESENTATIVE. ANY SYSTEM, EQUIPMENT, DEVICE OR WIRING FAILURE DISCOVERED DURING THE TEST SHALL BE REPAIRED OR REPLACED BEFORE REQUESTING A SCHEDULE FOR A FINAL ACCEPTANCE TEST.
37. THE CONTRACTOR SHALL FILE FORM APPLICATION FOR ELECTRICAL INSPECTION AND SUMMARY OF CONTRACT EQUIPMENT TO BE INSTALLED) WITH THE DIVISION OF FIRE DEPARTMENT, THIS FORM SHALL BE FILED IN PREPARATION FOR THE FINAL TEST OF THE SYSTEM.

PERFORM ANY ADDITIONAL TESTS REQUESTED BY THE FIRE DEPARTMENT.

MOUNTING HEIGHTS - FIRE ALARM EQUIPMENT

9" BELOW FINISH CEILING	• WALL MOUNTED BELLS AND FIRE ALARM SOUNDING DEVICE OR AS SHOWN ON ARCHITECTURAL DETAILS) • TV MONITOR OUTLET AND SERVICE RECEPTACLE FOR SHELF MOUNTED TV
CENTERED ABOVE DOOR OR WINDOW OPENING	• WARNING AND SIGNALING FIXTURES / SIGNS
6'-8"	• FIRE ALARM STROBES OR COMBINATION DEVICES WITH STROBES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR. IF CEILING DOES NOT PERMIT A MOUNTING HEIGHT OF AT LEAST 80" ABOVE FINISHED FLOOR, THE LENS OF THE DEVICE SHALL BE 6" OFF THE FINISHED CEILING.
6'-6"	• TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANEL BOARDS AND TELEPHONE CABINETS.
6'-6"	• TOP OF BACK MOUNTED WALL EXIT FIXTURES (NOT MOUNTED ABOVE DOORS)
6'-0"	• TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES ,MAGNETIC STARTERS, COMBINATION STARTERS, VFD'S AND CONTACTORS
4'-6"	• TOP OF WALL MOUNTED TELEPHONE AND PAY STATIONS, WALL MOUNTED INTERCOM, NURSE CALL STATIONS AND CLOCK CONTROL PANELS (3'-6" AT ADA LOCATIONS)
4'-0" TO TOP OF BOX	• WALL MOUNTED ELECTRICAL DEVICES SUCH AS: LIGHTING SWITCHES, MANUAL MOTOR STARTERS, THERMOSTATS, AND FIRE ALARM PULL STATIONS, • GFI OUTLETS IN TOILET ROOMS, • LOAD CENTERS IN DWELLING UNITS, • INCLUDE ALL FLOOR EQUIPMENT IN LABS AND EQUIPMENT ROOMS.
1'-6"	• ELECTRICAL RECEPTACLES INCLUDING THOSE USED WITHIN MECHANICAL SPACES AND ELEVATOR ROOMS • TELEPHONE, DATA AND COMMUNICATION OUTLETS • CATV AND A/V JUNCTION BOXES.

MOUNTING HEIGHT NOTES

1. MOUNTING HEIGHTS SHALL BE 18" TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IF ELECTRICAL OUTLET HEIGHT OR ANGLE VARIES, COORDINATE WITH GC FOR INSTALLATION. IF IN MASONRY CONSTRUCTION, THE ABOVE HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.
2. MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE ARCHITECTURE DRAWING OR SPECIFICATIONS.
3. A "+" BESIDE A DEVICE INDICATES THAT DEVICE IS MOUNTED ABOVE COUNTER OR CASEWORK. COORDINATE THE MOUNTING HEIGHT WITH ARCHITECTURAL DETAILS AND CASEWORK CONTRACTOR.
4. ALL DEVICES SHOWN ON DRAWINGS ARE DIAGRAMMATIC IN LOCATION AND SHOWN FOR GENERAL WIRING PURPOSES ONLY. ALL DEVICES INDICATED TO BE INSTALLED IN THE SAME LOCATIONS WITH DIFFERENT ELEVATIONS SHALL BE ALIGNED VERTICALLY AND HORIZONTALLY. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF SWITCHES, OUTLETS, FIRE ALARM NOTIFICATION DEVICES, FIRE ALARM PULL STATIONS, CLOCKS, CARD READERS AND OTHER SECURITY DEVICES, THERMOSTATS, SENSORS, ETC.
5. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH AHU, ADA REQUIREMENTS AND OTHER TRADES.

FIRE ALARM SYSTEM

FACP	FIRE ALARM CONTROL PANEL.
FAA	REMOTE ANNUNCIATOR
FS	MANUAL PULL STATION - CENTERLINE 4'-0" A.F.F.
RTS	REMOTE TEST STATION FOR DUCT SMOKE DETECTOR.
AR	AREA OF REFUGE STATION
ARM	AREA OF REFUGE MASTER STATION
MH	MAGNETIC DOOR HOLDER
FDS	REMOTE FIRE ALARM DRILL SWITCH - CENTER LINE 4'-0" A.F.F.
	AUDIO / VISUAL NOTIFICATION APPLIANCE - BOTTOM OF LENS 7'-6" A.F.F.
C	AUDIO / VISUAL NOTIFICATION APPLIANCE - CEILING MOUNTED.
	VISUAL NOTIFICATION APPLIANCE - BOTTOM OF LENS 7'-6" A.F.F.
C	VISUAL NOTIFICATION APPLIANCE - CEILING MOUNTED.
	AUDIO ONLY NOTIFICATION APPLIANCE - WALL MOUNTED.
C	AUDIO ONLY NOTIFICATION APPLIANCE - CEILING MOUNTED.
F	PULL STATION
F	MASTER BOX
K	KNOX BOX
L	REMOTE INDICATING LIGHT(LED) TO DISPLAY ALARM CONDITION OF REMOTE DETECTOR, CENTERED ABOVE DOOR.
B	EXTERIOR BEACON (LENS COLOR AS REQUIRED BY AHJ)
CO	CARBON MONOXIDE DETECTOR
CS	COMBINATION CARBON MONOXIDE - SMOKE DETECTOR
DS	DUCT SMOKE DETECTOR
R	DUCT SMOKE DETECTOR TEST RESET STATION
H	HEAT DETECTOR FIXED AT 190° FARENHEIT
S	SMOKE DETECTOR
S	BEAM SMOKE DETECTOR (EMITTER)
S	BEAM SMOKE DETECTOR (RECEIVER)
B	ALARM BELL
FS	FLOW SWITCH
PS	PRESSURE SWITCH
FSD	FIRE AND SMOKE DAMPER, PROVIDE CONTROL MODULE FOR INTERFACE TO FIRE ALARM
SD	SMOKE DAMPER
C	FIRE ALARM RELAY CONTROL
M	FIRE ALARM RELAY MONITOR
TS	TAMPER SWITCH
	FIREFIGHTERS PHONE
J	PHONE JACK FOR FIREFIGHTERS PORTABLE PHONE

REVISION LEGEND: ❍ NEW ISSUE; ● REVISED ISSUE; ♦ REVISED, NOT ISSUED; ☒ REMOVED FROM DRAWING SET; ☐ ISSUED, NOT REVISED

DRAWING LIST - FIRE ALARM

DRAWING NUMBER	DRAWING TITLE	11-01-2022 - SCHEMATIC BUDGET PRICING SET	12-20-2022 - APARTMENT PERMIT SET
FA0.01	FIRE ALARM LEGENDS, ABBREVIATIONS, AND GENERAL NOTES	❍	●
FA0.11	FIRE ALARM AIR RISER DIAGRAM		❍
FA0.31	FIRE ALARM DETAILS	❍	●
FA2.01A	FIRE ALARM - RETAIL LEVEL PLAN A	❍	●
FA2.02B	FIRE ALARM - CLUB LEVEL 1 PLAN B	❍	●
FA2.03B	FIRE ALARM - CLUB LEVEL 2 PLAN B	❍	●
FA2.04	FIRE ALARM - FIRST FLOOR PLAN	❍	●
FA2.04A	FIRE ALARM - FIRST FLOOR ENLARGED PLAN A	❍	●
FA2.04B	FIRE ALARM - FIRST FLOOR ENLARGED PLAN B	❍	●
FA2.04C	FIRE ALARM - FIRST FLOOR ENLARGED PLAN C	❍	●
FA2.04D	FIRE ALARM - FIRST FLOOR ENLARGED PLAN D	❍	●
FA2.05	FIRE ALARM - SECOND FLOOR OVERALL PLAN	❍	●
FA2.05A	FIRE ALARM - SECOND FLOOR ENLARGED PLAN A	❍	●
FA2.05B	FIRE ALARM - SECOND FLOOR ENLARGED PLAN B	❍	●
FA2.05C	FIRE ALARM - SECOND FLOOR ENLARGED PLAN C	❍	●
FA2.05D	FIRE ALARM - SECOND FLOOR ENLARGED PLAN D	❍	●
FA2.06	FIRE ALARM - THIRD FLOOR OVERALL PLAN	❍	●
FA2.06A	FIRE ALARM - THIRD FLOOR ENLARGED PLAN A	❍	●
FA2.06B	FIRE ALARM - THIRD FLOOR ENLARGED PLAN B	❍	●
FA2.06C	FIRE ALARM - THIRD FLOOR ENLARGED PLAN C	❍	●
FA2.06D	FIRE ALARM - THIRD FLOOR ENLARGED PLAN D	❍	●
FA2.07	FIRE ALARM - FOURTH FLOOR OVERALL PLAN	❍	●
FA2.07A	FIRE ALARM - FOURTH FLOOR ENLARGED PLAN A	❍	●
FA2.07B	FIRE ALARM - FOURTH FLOOR ENLARGED PLAN B	❍	●
FA2.07C	FIRE ALARM - FOURTH FLOOR ENLARGED PLAN C	❍	●
FA2.07D	FIRE ALARM - FOURTH FLOOR ENLARGED PLAN D	❍	●
FA6.01	FIRE ALARM - UNIT PLANS	❍	●
FA6.02	FIRE ALARM - UNIT PLANS	❍	●
FA6.03	FIRE ALARM - UNIT PLANS	❍	●
FA6.04	FIRE ALARM - UNIT PLANS	❍	●
FA6.05	FIRE ALARM - UNIT PLANS	❍	●
FA6.06	FIRE ALARM - UNIT PLANS	❍	●

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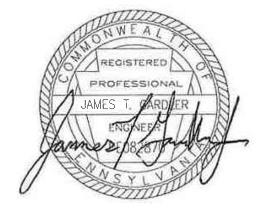

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM LEGENDS, ABBREVIATIONS, AND GENERAL NOTES

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA0.01

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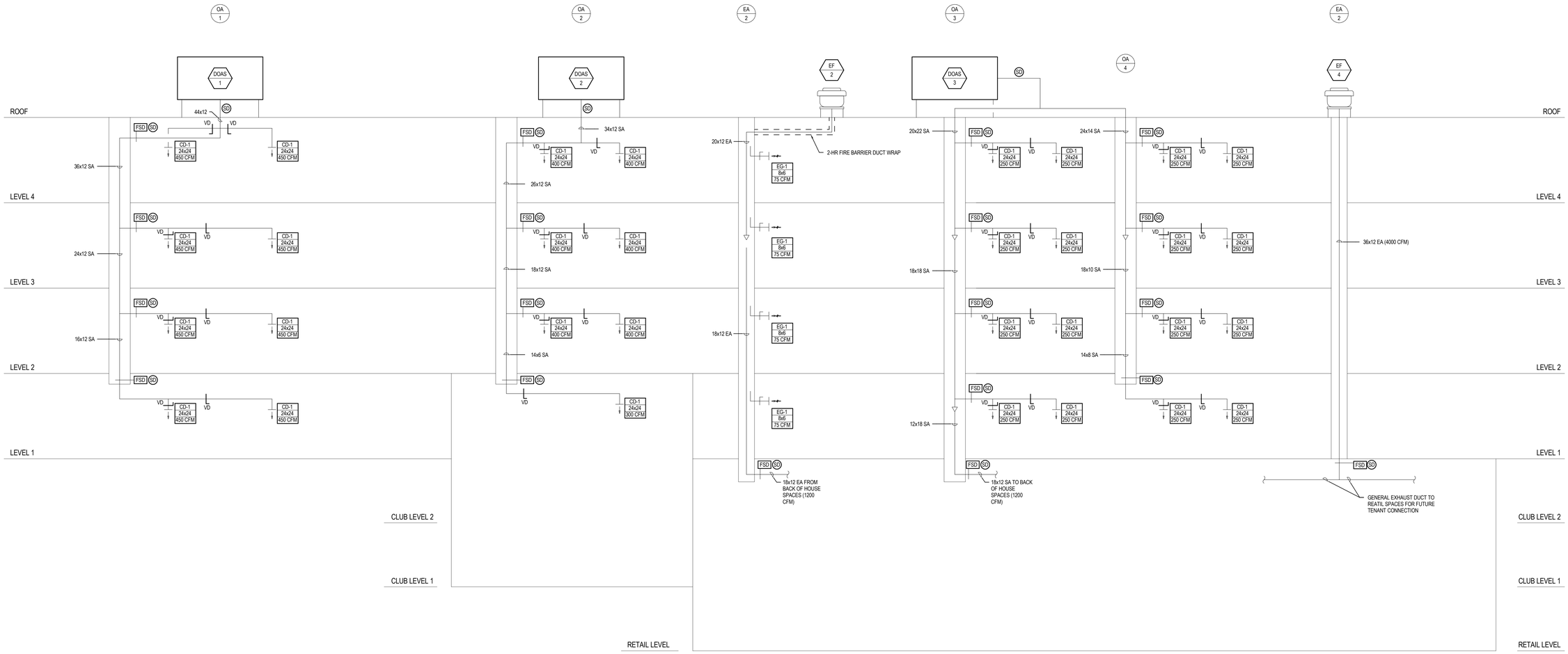
EXHAUST GENERAL NOTES:

1. 2-HOUR FIRE WRAP IS REQUIRED ON ALL HORIZONTAL OFFSET DUCTWORK LOCATED OUTSIDE 2-HOUR FIRE RATED SHAFT.
2. PROVIDE DOUBLE-WALL CONSTRUCTION WITH 1" INTERNAL ACOUSTIC LINING FOR DUCTWORK WITHIN 15'-0" OF FAN.
3. PROVIDE SUBDUCT FOR EXHAUST CONNECTIONS TO RISER WITH MINIMUM 22" VERTICAL DUCT. COORDINATE INLET REQUIREMENTS WITH PLANS.



1 FA0.11 **AIRFLOW RISER DIAGRAM FA**
12" = 1'-0"

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Project Status

FIRE ALARM AIR RISER DIAGRAM

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	12/15/22

FA0.11

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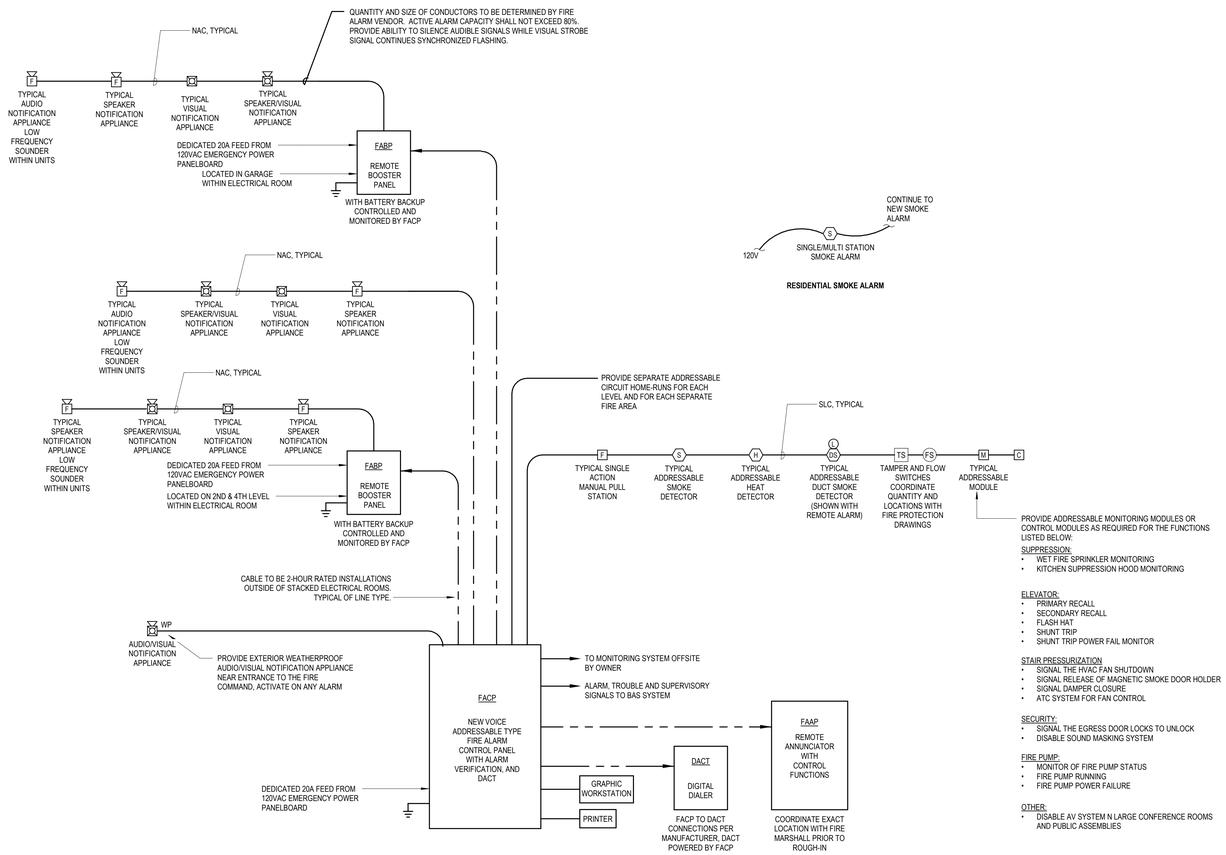

NOTES:

1. DIAGRAM IS SCHEMATIC ONLY AND DOES NOT REPRESENT ACTUAL DEVICE QUANTITIES UNLESS OTHERWISE NOTED. EVERY DEVICE INDICATED MAY NOT BE UTILIZED FOR THIS PROJECT. REFER TO AREA PLANS, SPECIFICATIONS AND ALLOWANCES FOR DEVICE QUANTITIES.
2. WIRING TO FIRE ALARM MONITORING MODULES, INITIATION DEVICES, AND NOTIFICATION DEVICES TO BE IN 3/4" CONDUIT. RED TYPE 'MC' CABLE MAY BE USED INSTEAD OF CONDUIT AND WIRING. PROVIDE PLENUM RATED CABLES WHERE REQUIRED. ALL WIRING REQUIREMENTS SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
3. ALL DEVICES AND WIRING SHALL BE COMPATIBLE WITH FACP AND SHALL BE U.L. AND FM CERTIFIED AS A COMPLETE AND OPERABLE SYSTEM. THE FIRE ALARM SYSTEM SHALL BE INSTALLED AND OPERATIONAL IN ACCORDANCE WITH NEC ARTICLE 725, ARTICLE 760, NFPA 72 AND ADA. WIRING SHALL BE CLASS 'A' TYPE.
4. THIS DIAGRAM SHOWS SOME PIECES OF EQUIPMENT NECESSARY FOR THE OPERATION OF THE FIRE ALARM SYSTEM, BUT WHICH ARE TYPICALLY OMITTED FROM THE PLANS FOR THE SAKE OF CLARITY.
5. SMOKE DETECTORS SHALL BE PROVIDED AND WIRED FOR AHU'S AND RTU'S BACK TO FACP PER NFPA 90A. COORDINATE WITH MECHANICAL CONTRACTOR ON DETECTOR INSTALLATION AND SHUTDOWN WIRING. USE PHOTOELECTRIC TYPE DETECTORS FOR MECHANICAL, ELECTRICAL, AND IDF ROOMS.
6. PROVIDE CONTROL MODULES FOR HVAC CONTROL (AHU AND RTU SHUTDOWN) VIA DUCT SMOKE DETECTORS WITH RELAYS WIRED TO SIGNAL LINE CIRCUIT (NOT SHOWN ON RISER DIAGRAM) PER NFPA 90A. COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATIONS OF DUCT DETECTORS, ETC. DUCT DETECTORS SHALL BE SYSTEM TYPE COMPATIBLE WITH FACP FURNISHED BY MECHANICAL CONTRACTOR AND WIRED BY EC.
7. PROVIDE MONITOR MODULES AND WIRING FOR SPRINKLER WATER FLOW AND TAMPER SWITCHES FOR MAIN VALVES. FLOW AND TAMPER SWITCHES PROVIDED AND INSTALLED BY THE FIRE PROTECTION MECHANICAL CONTRACTOR.
8. FIRE ALARM SYSTEM SHALL COMMUNICATE VIA COMMON GENERIC PROTOCOL WITH THE MECHANICAL BAS SYSTEM AS REQUIRED FOR SUPERVISORY, TROUBLE AND ALARM CONDITIONS. FIRE ALARM SYSTEM AND BAS SYSTEM SHALL BE MONITORED IN THE BUILDING ENGINEER'S OFFICE. PROVIDE REQUIRED HARDWARE, SOFTWARE AND WIRING.
9. PROVIDE, INSTALL AND WIRE DOOR HOLDERS, LOCKS, STRIKES WITH ASSOCIATED SMOKE DETECTORS, AS APPLICABLE, FOR DOOR RELEASE ON FIRE ALARM INITIATED FROM THE FIRE ALARM SYSTEM. COORDINATE WITH THE SECURITY SYSTEM CONTRACTOR.
10. FIRE ALARM SYSTEM DESIGN AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ALL LOCAL CODES AND ORDINANCES.
11. COORDINATE WITH ELEVATOR CONTRACTOR ON FIRE ALARM INTERFACE WIRING FOR SHUNT TRIP OF ELEVATOR MAIN DISCONNECT, ELEVATOR CAB PHONE JACKS, ELEVATOR PIT AND TOP OF SHAFT HEAT AND SMOKE DETECTORS, ETC. AS PER LOCAL ELEVATOR CODES. PROVIDE REQUIRED FIRE ALARM SYSTEM HARDWARE.
12. PROVIDE MONITOR MODULES AND WIRING FOR STATUS AND POSITION OF SMOKE DAMPERS AND FIRE DAMPERS USED IN 'PASSIVE SMOKE CONTROL SYSTEM'. FOR 'ENGINEERED SMOKE CONTROL SYSTEM' PROVIDE MONITOR MODULES AND WIRING FOR STATUS AND POSITION OF DAMPERS, AND PROVIDE MODULE AND WIRING TO CONTROL DAMPER ACTUATOR.
13. SEE DIVISION 28 SPECIFICATION FOR ADDITIONAL DETAILS OF FIRE ALARM SYSTEM.
14. PROVIDE, INSTALL AND WIRE SMOKE DAMPERS TO THE FIRE ALARM SYSTEM CONTROL PANEL AS APPLICABLE. COORDINATE WITH MECHANICAL CONTRACTOR.
15. PROVIDE CELLULAR DIALER.

1 / FA0.31 **FIRE ALARM RISER DIAGRAMS**
NOT TO SCALE

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET / SIGNUP SET	11/01/2022, 12/20/2022

Project Status

FIRE ALARM DETAILS

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA0.31

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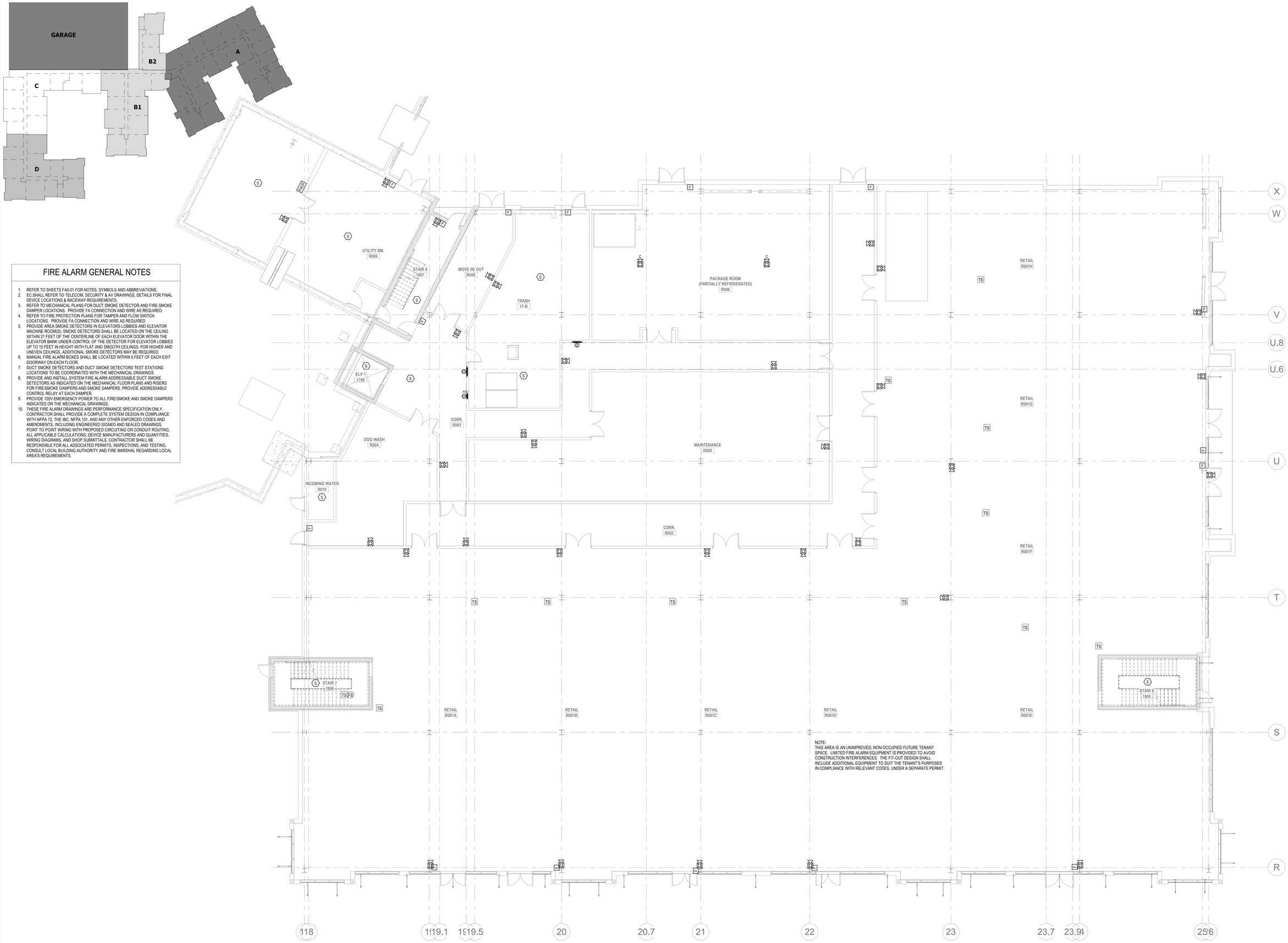

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
3. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
4. REFER TO FIRE PROTECTION PLANS FOR TAMPER AND FLOW SWITCH LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
5. PROVIDE AREA SMOKE DETECTORS IN ELEVATORS LOBBIES AND ELEVATOR MACHINE ROOM(S). SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING WITHIN 21 FEET OF THE CENTERLINE OF EACH ELEVATOR DOOR WITHIN THE ELEVATOR BANK UNDER CONTROL OF THE DETECTOR FOR ELEVATOR LOBBIES UP TO 15 FEET IN HEIGHT WITH FLAT AND SMOOTH CEILINGS. FOR HIGHER AND UNEVEN CEILINGS, ADDITIONAL SMOKE DETECTORS MAY BE REQUIRED.
6. MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5 FEET OF EACH EXIT DOORWAY ON EACH FLOOR.
7. DUCT SMOKE DETECTORS AND DUCT SMOKE DETECTORS TEST STATIONS LOCATIONS TO BE COORDINATED WITH THE MECHANICAL DRAWINGS.
8. PROVIDE AND INSTALL SYSTEM FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTORS AS INDICATED ON THE MECHANICAL FLOOR PLANS AND RISERS FOR FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. PROVIDE ADDRESSABLE CONTROL RELAY AT EACH DAMPER.
9. PROVIDE 120V EMERGENCY POWER TO ALL FIRE/SMOKE AND SMOKE DAMPERS INDICATED ON THE MECHANICAL DRAWINGS.
10. THESE FIRE ALARM DRAWINGS ARE PERFORMANCE SPECIFICATION ONLY. CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM DESIGN IN COMPLIANCE WITH NFPA 72, THE IBC, NFPA 101, AND ANY OTHER ENFORCED CODES AND AMENDMENTS, INCLUDING ENGINEERED SIGNED AND SEALED DRAWINGS, POINT TO POINT WIRING WITH PROPOSED CIRCUITING OR CONDUIT ROUTING, ALL APPLICABLE CALCULATIONS, DEVICE MANUFACTURERS AND QUANTITIES, WIRING DIAGRAMS, AND SHOP SUBMITTALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED PERMITS, INSPECTIONS, AND TESTING. CONSULT LOCAL BUILDING AUTHORITY AND FIRE MARSHAL REGARDING LOCAL AREA'S REQUIREMENTS.

1 FA2.01A **FIRE ALARM - RETAIL LEVEL PLAN A**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	CONSTRUCTION BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - RETAIL LEVEL PLAN A

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA2.01A

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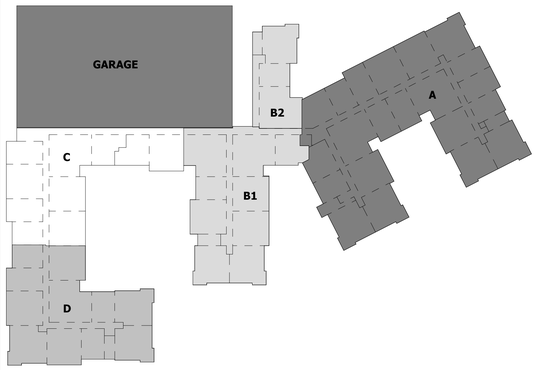

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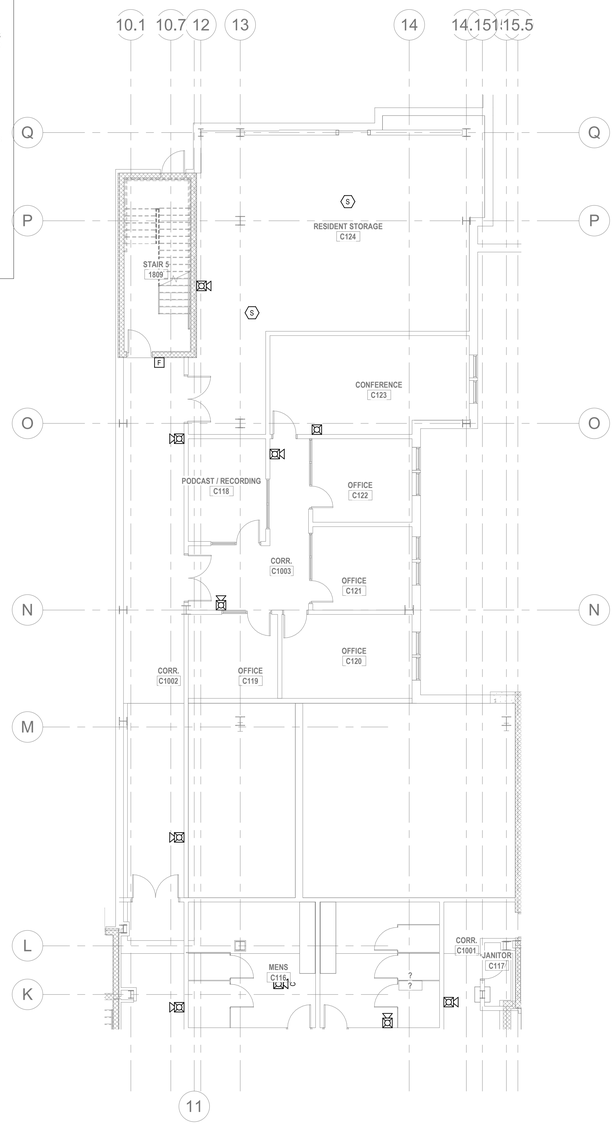
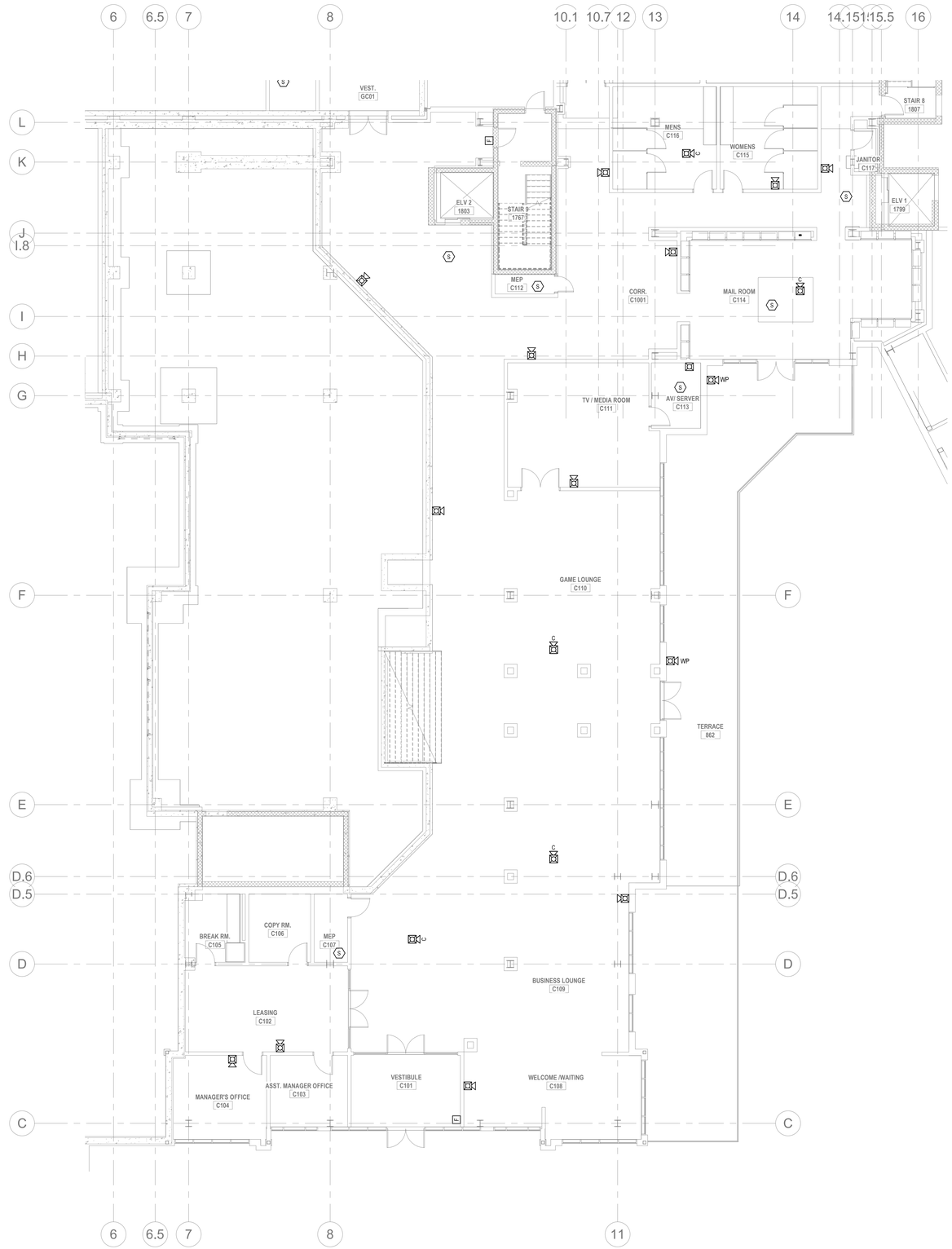
11. CLUB LEVEL 1 AND CLUB LEVEL 2 SHALL BE DESIGN AS PART OF A FUTURE PERMIT ISSUANCE.



1 FA2.02B **FIRE ALARM - CLUB LEVEL 1 PLAN B2**
1/8" = 1'-0"



2 FA2.02B **FIRE ALARM - CLUB LEVEL 1 PLAN B1**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/30/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - CLUB LEVEL 1 PLAN B

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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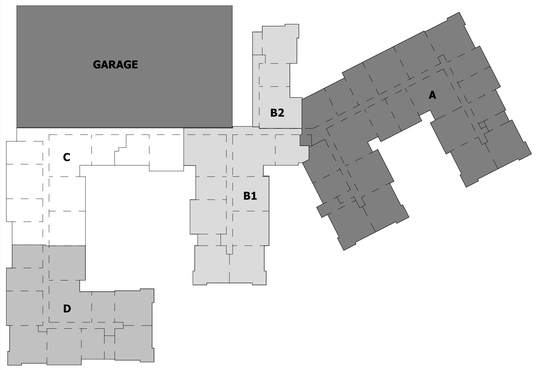

FIRE ALARM GENERAL NOTES

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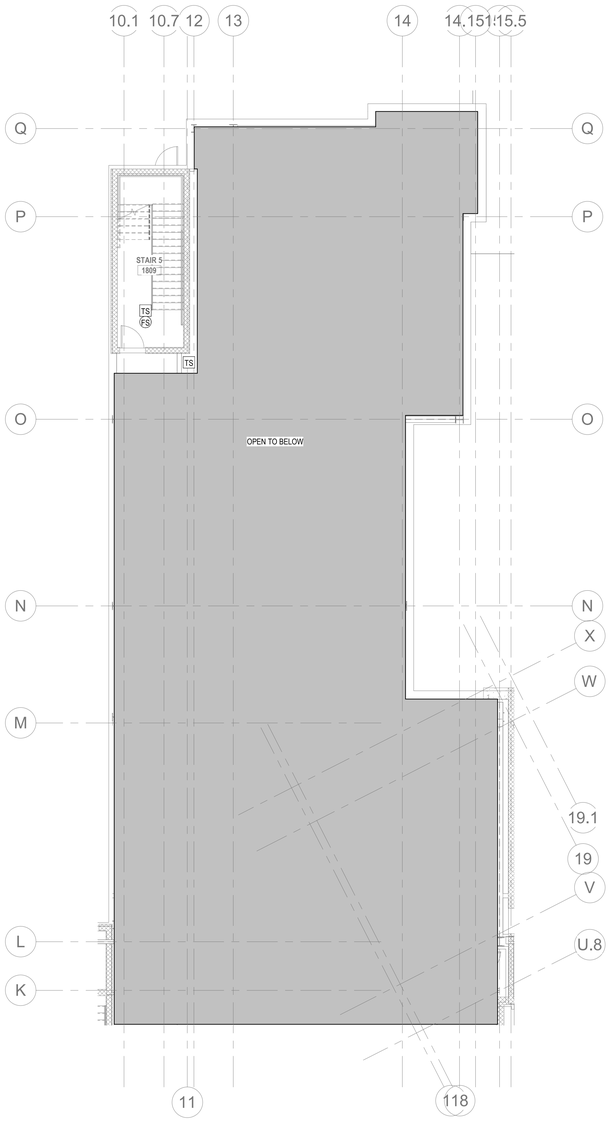
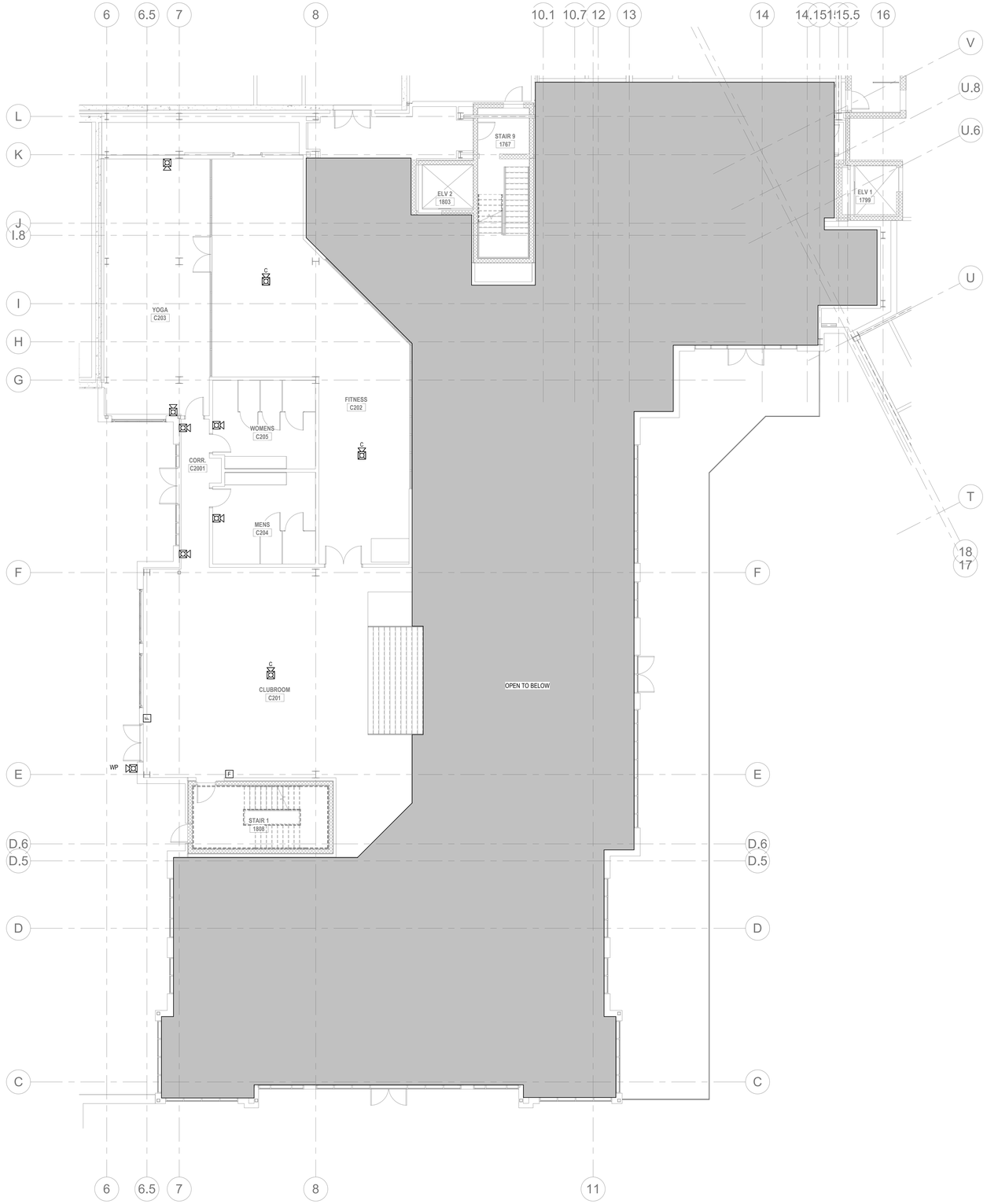
11. CLUB LEVEL 1 AND CLUB LEVEL 2 SHALL BE DESIGN AS PART OF A FUTURE PERMIT ISSUANCE.



1 FA2.03B **FIRE ALARM - CLUB LEVEL 2 PLAN B2**
1/8" = 1'-0"



2 FA2.03B **FIRE ALARM - CLUB LEVEL 2 PLAN B1**
1/8" = 1'-0"

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P.M.:	TRT
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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/07/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - CLUB LEVEL 2 PLAN B

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA2.03B

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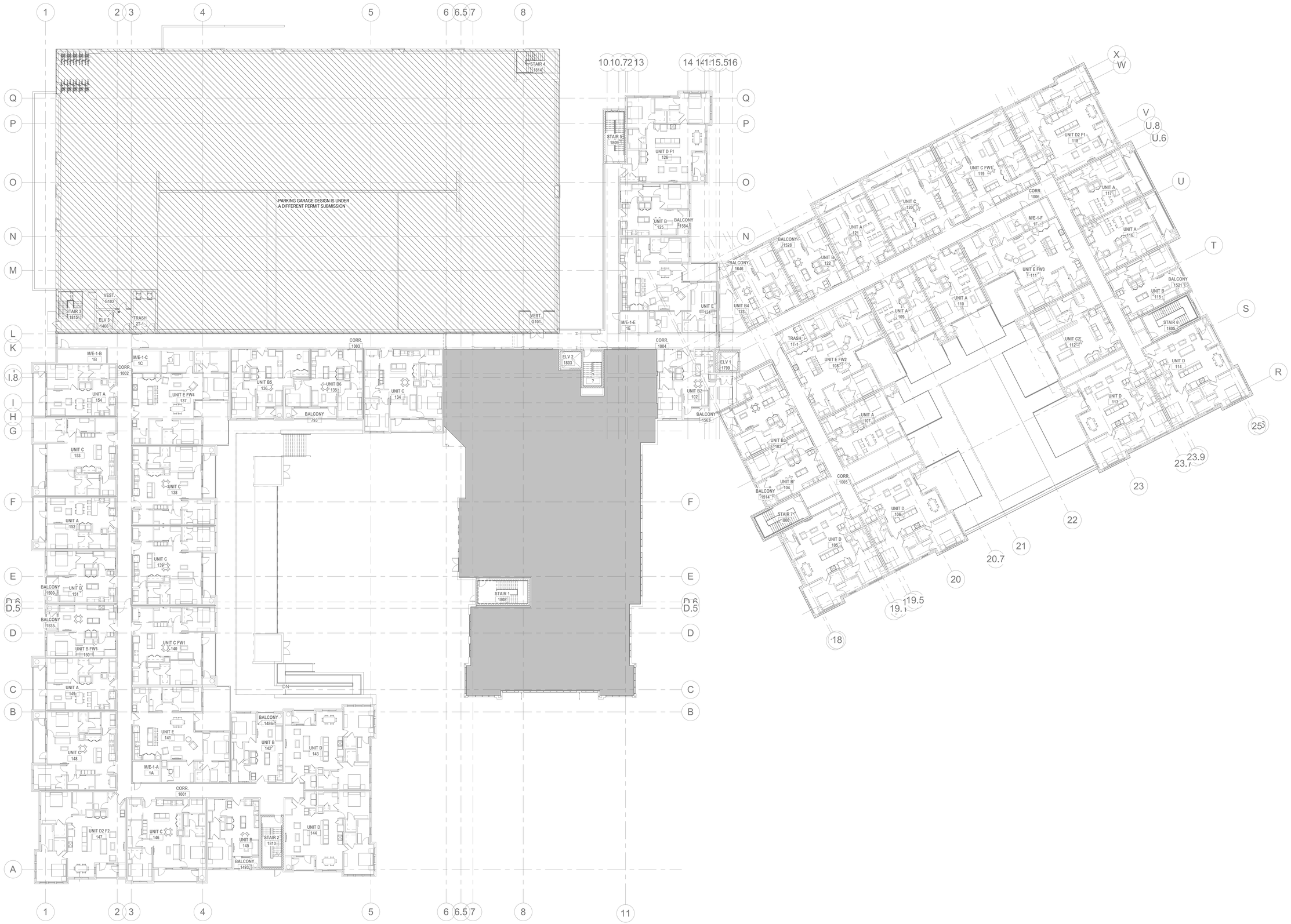

2 FA2.04 **FIRE ALARM - FIRST FLOOR PLAN**
1/16" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/30/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FIRST FLOOR PLAN

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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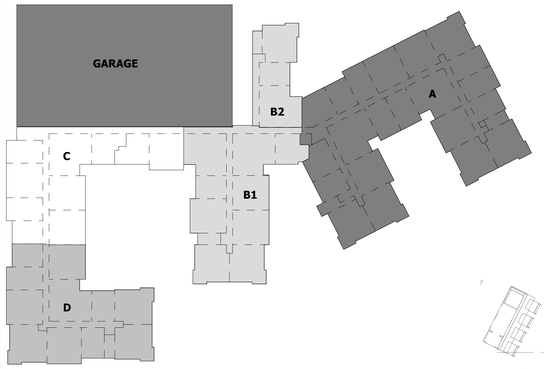

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
3. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
4. REFER TO FIRE PROTECTION PLANS FOR TAMPER AND FLOW SWITCH LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
5. PROVIDE AREA SMOKE DETECTORS IN ELEVATORS LOBBIES AND ELEVATOR MACHINE ROOM(S). SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING WITHIN 21 FEET OF THE CENTERLINE OF EACH ELEVATOR DOOR WITHIN THE ELEVATOR BANK UNDER CONTROL OF THE DETECTOR FOR ELEVATOR LOBBIES UP TO 15 FEET IN HEIGHT WITH FLAT AND SMOOTH CEILINGS. FOR HIGHER AND UNEVEN CEILINGS, ADDITIONAL SMOKE DETECTORS MAY BE REQUIRED.
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8. PROVIDE AND INSTALL SYSTEM FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTORS AS INDICATED ON THE MECHANICAL FLOOR PLANS AND RISERS FOR FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. PROVIDE ADDRESSABLE CONTROL RELAY AT EACH DAMPER.
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FA2.04A **FIRE ALARM - FIRST FLOOR ENLARGED PLAN A**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FIRST FLOOR ENLARGED PLAN A

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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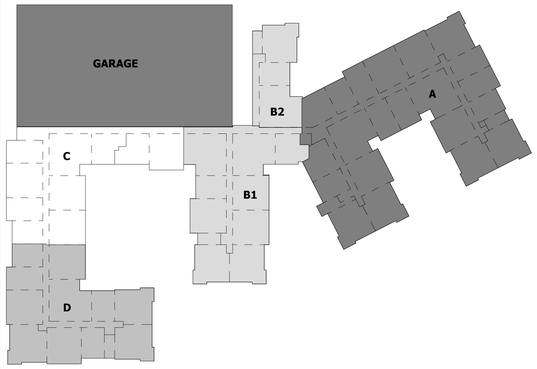

FIRE ALARM GENERAL NOTES

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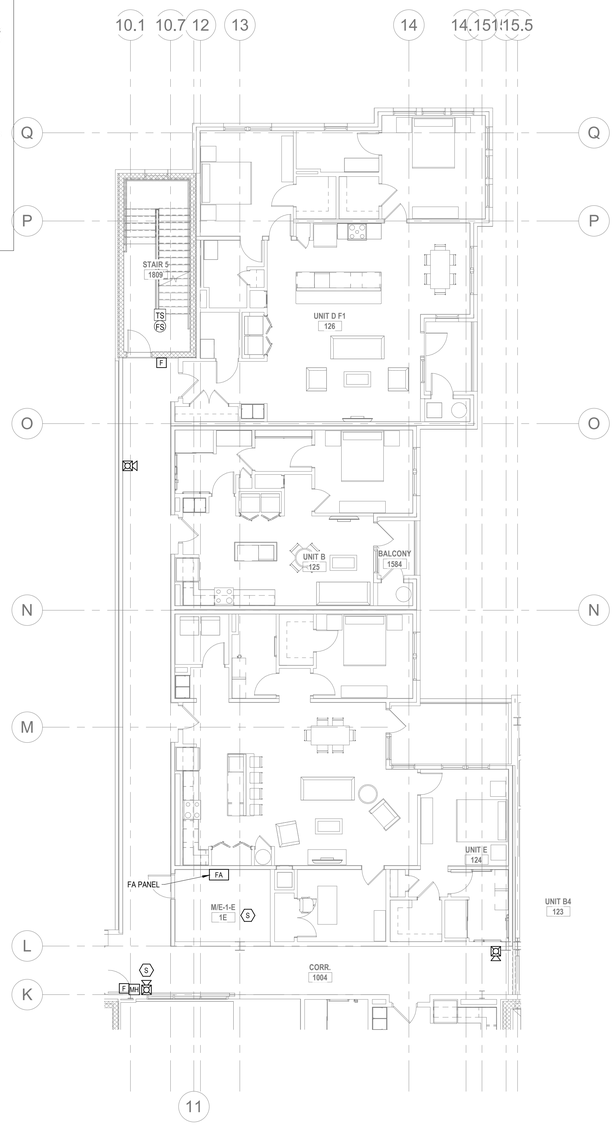
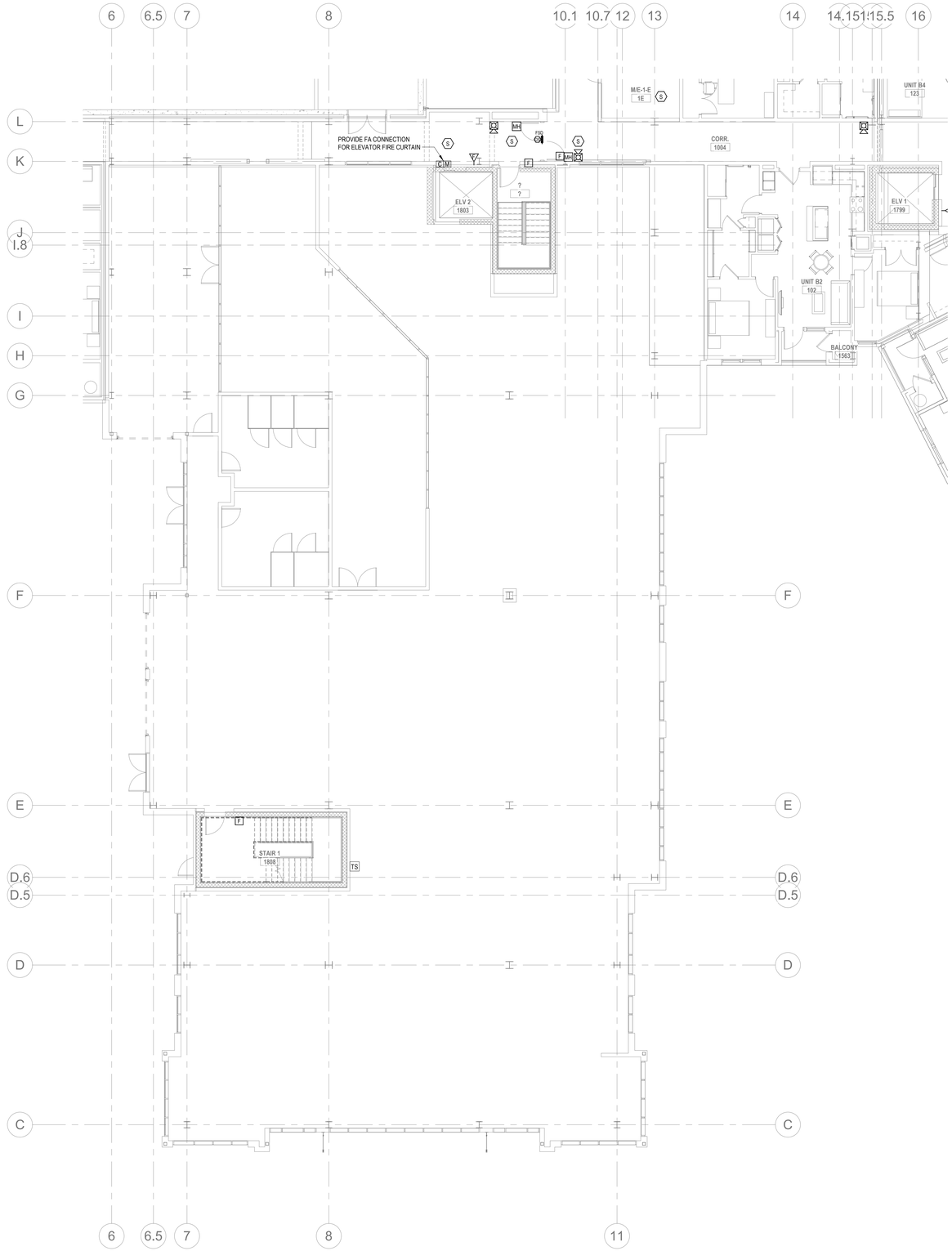


3 FA2.04B FIRE ALARM - FIRST FLOOR ENLARGED PLAN B2
1/8" = 1'-0"



4 FA2.04B FIRE ALARM - FIRST FLOOR ENLARGED PLAN B1
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	CONTRACTOR BUDGET PRICING SET	11/30/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FIRST FLOOR ENLARGED PLAN B

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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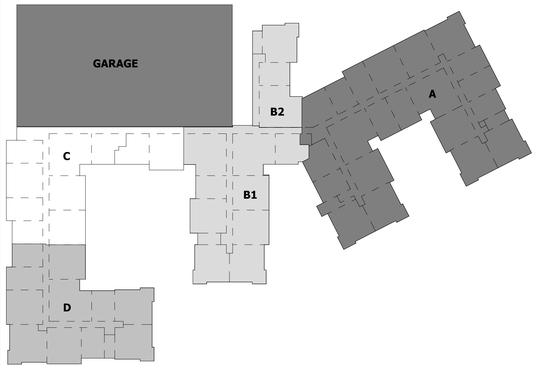

FIRE ALARM GENERAL NOTES

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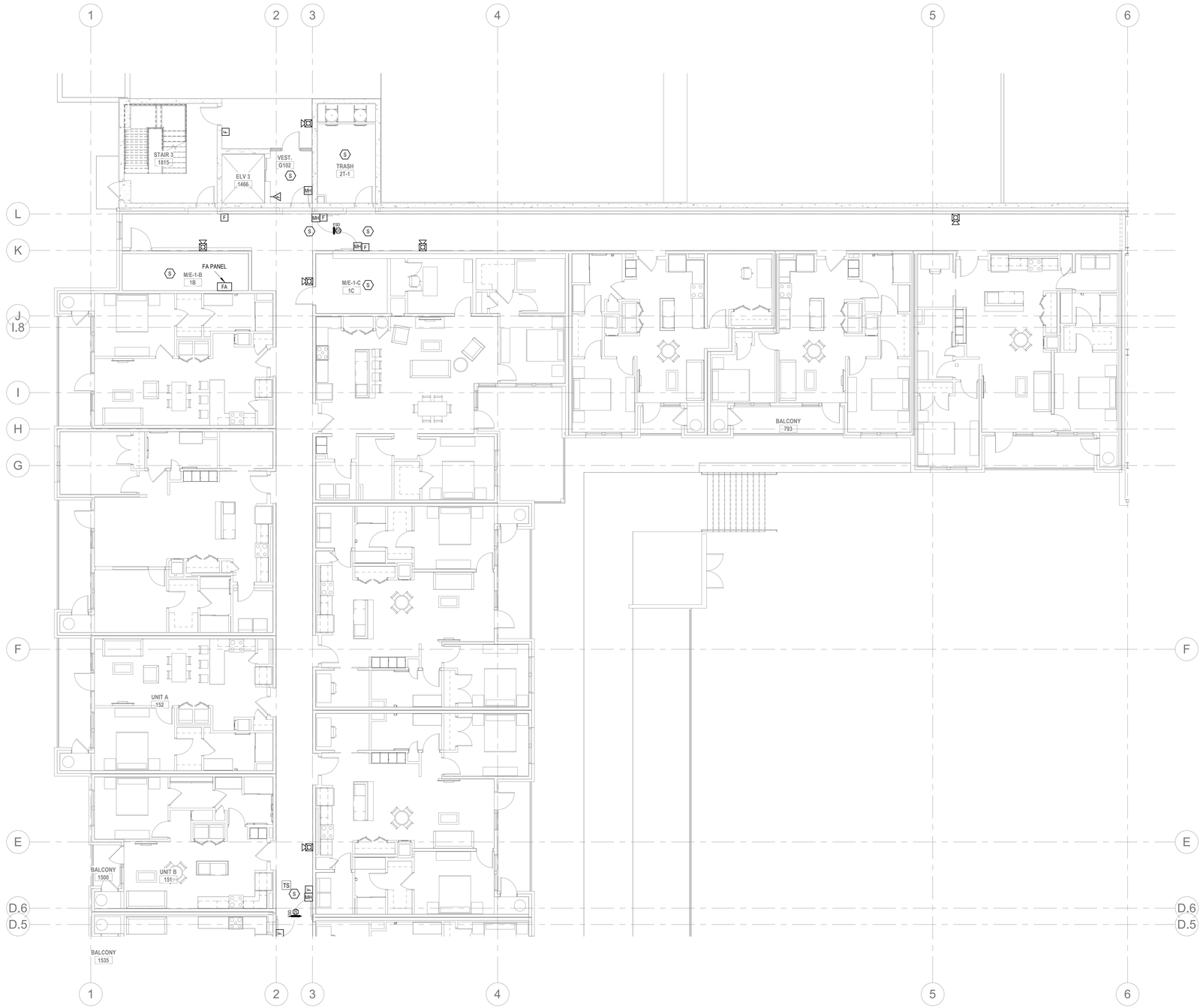

2 FA2.04C **FIRE ALARM - FIRST FLOOR ENLARGED PLAN C**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PRELIMINARY BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FIRST FLOOR ENLARGED PLAN C

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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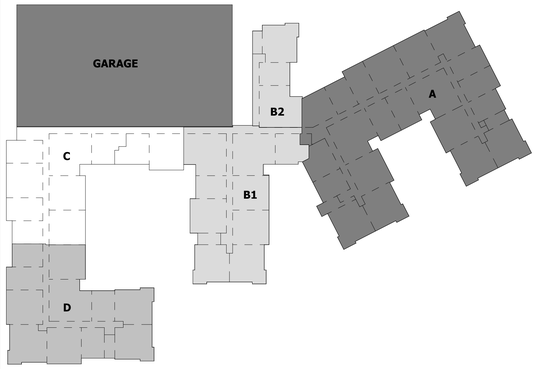

FIRE ALARM GENERAL NOTES

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FIRE ALARM - FIRST FLOOR ENLARGED PLAN D
FA2.04D
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FIRST FLOOR ENLARGED PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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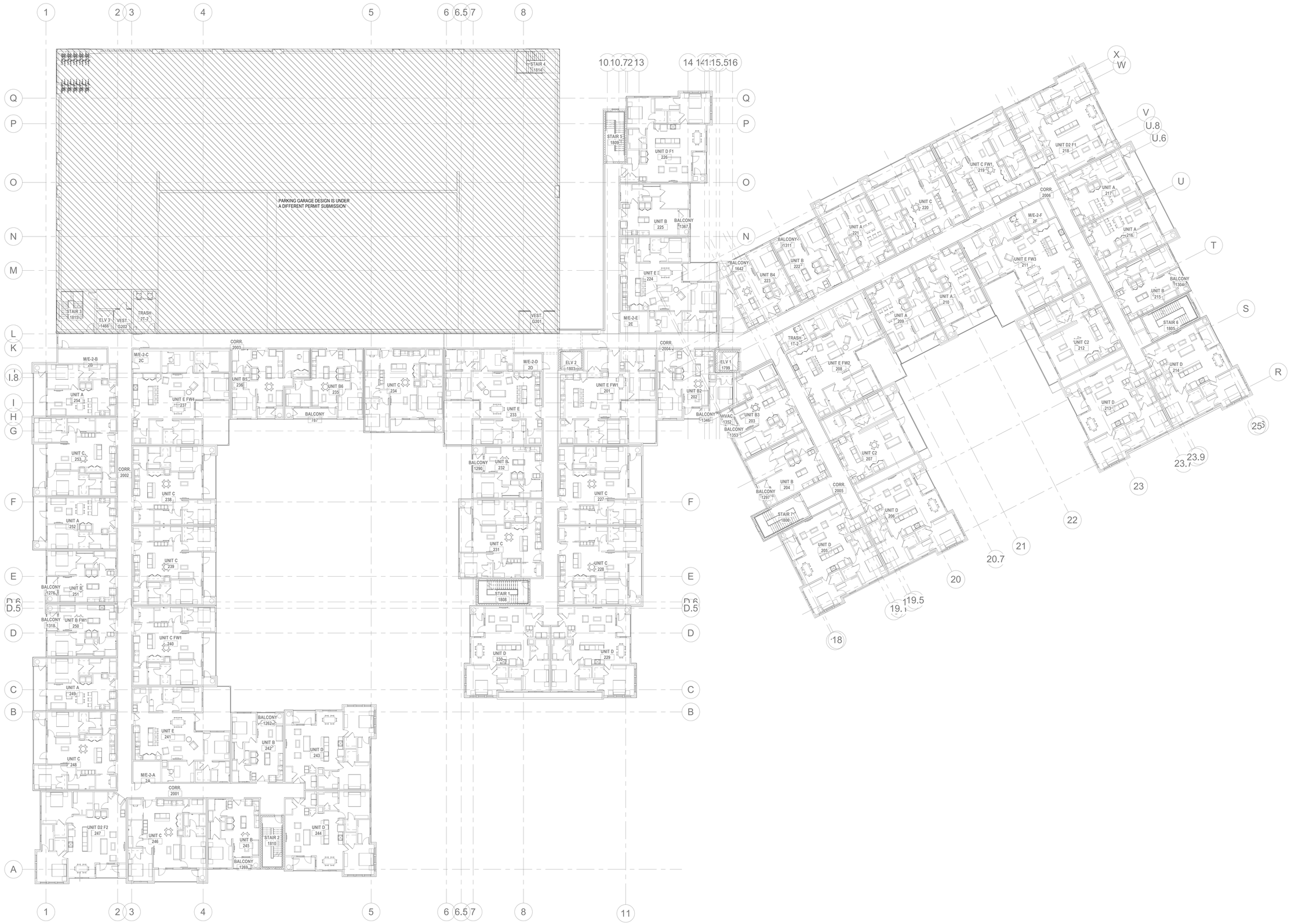

FIRE ALARM - SECOND FLOOR PLAN

1 FA2.05 — 1/16" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PRELIMINARY BUDGET PRICING SET	11/07/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - SECOND FLOOR OVERALL PLAN

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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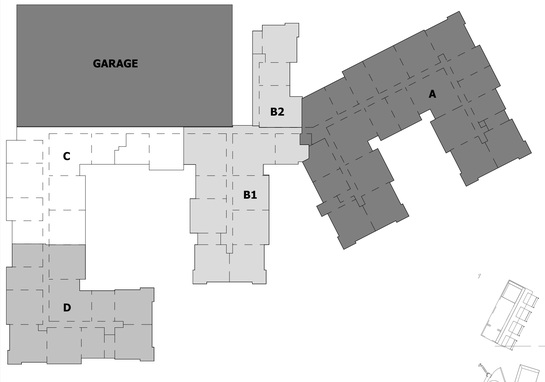

FIRE ALARM GENERAL NOTES

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8. PROVIDE AND INSTALL SYSTEM FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTORS AS INDICATED ON THE MECHANICAL FLOOR PLANS AND RISERS FOR FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. PROVIDE ADDRESSABLE CONTROL RELAY AT EACH DAMPER.
9. PROVIDE 120V EMERGENCY POWER TO ALL FIRE/SMOKE AND SMOKE DAMPERS INDICATED ON THE MECHANICAL DRAWINGS.
10. THESE FIRE ALARM DRAWINGS ARE PERFORMANCE SPECIFICATION ONLY. CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM DESIGN IN COMPLIANCE WITH NFPA 72, THE IBC, NFPA 101, AND ANY OTHER ENFORCED CODES AND AMENDMENTS, INCLUDING ENGINEERED SIGNED AND SEALED DRAWINGS, POINT TO POINT WIRING WITH PROPOSED CIRCUITING OR CONDUIT ROUTING, ALL APPLICABLE CALCULATIONS, DEVICE MANUFACTURERS AND QUANTITIES, WIRING DIAGRAMS, AND SHOP SUBMITTALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED PERMITS, INSPECTIONS, AND TESTING. CONSULT LOCAL BUILDING AUTHORITY AND FIRE MARSHAL REGARDING LOCAL AREA'S REQUIREMENTS.

2 FA2.05A **FIRE ALARM - SECOND FLOOR ENLARGED PLAN A**
1/8" = 1'-0"

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - SECOND FLOOR ENLARGED PLAN A

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA2.05A

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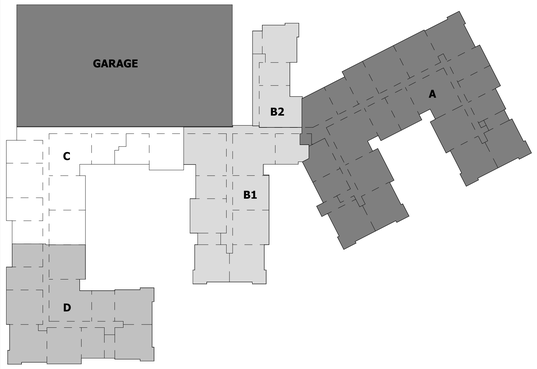

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
3. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
4. REFER TO FIRE PROTECTION PLANS FOR TAMPER AND FLOW SWITCH LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
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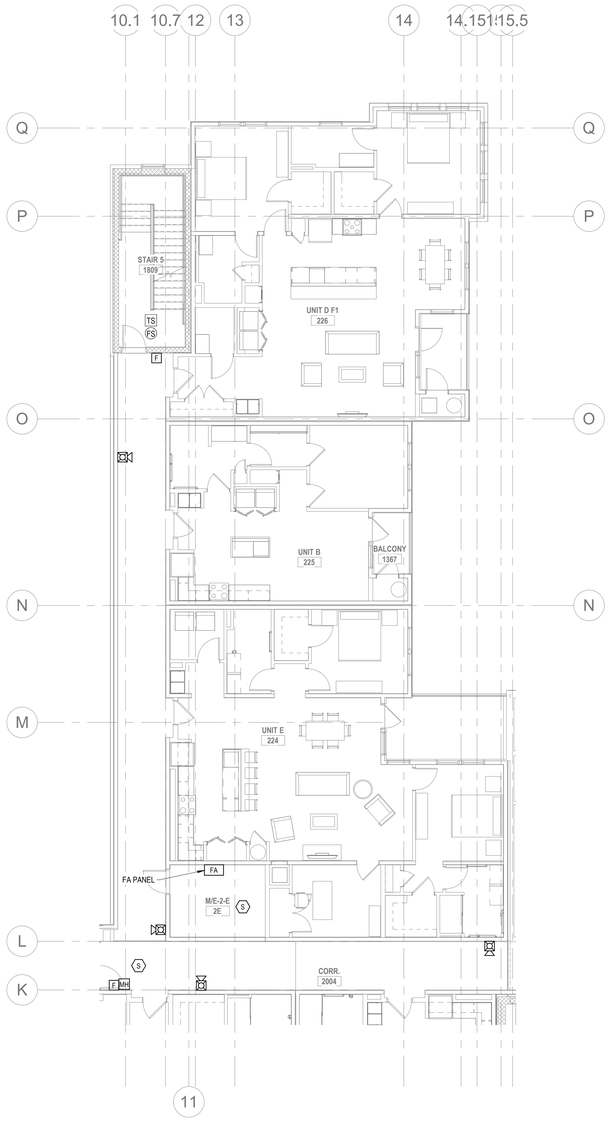
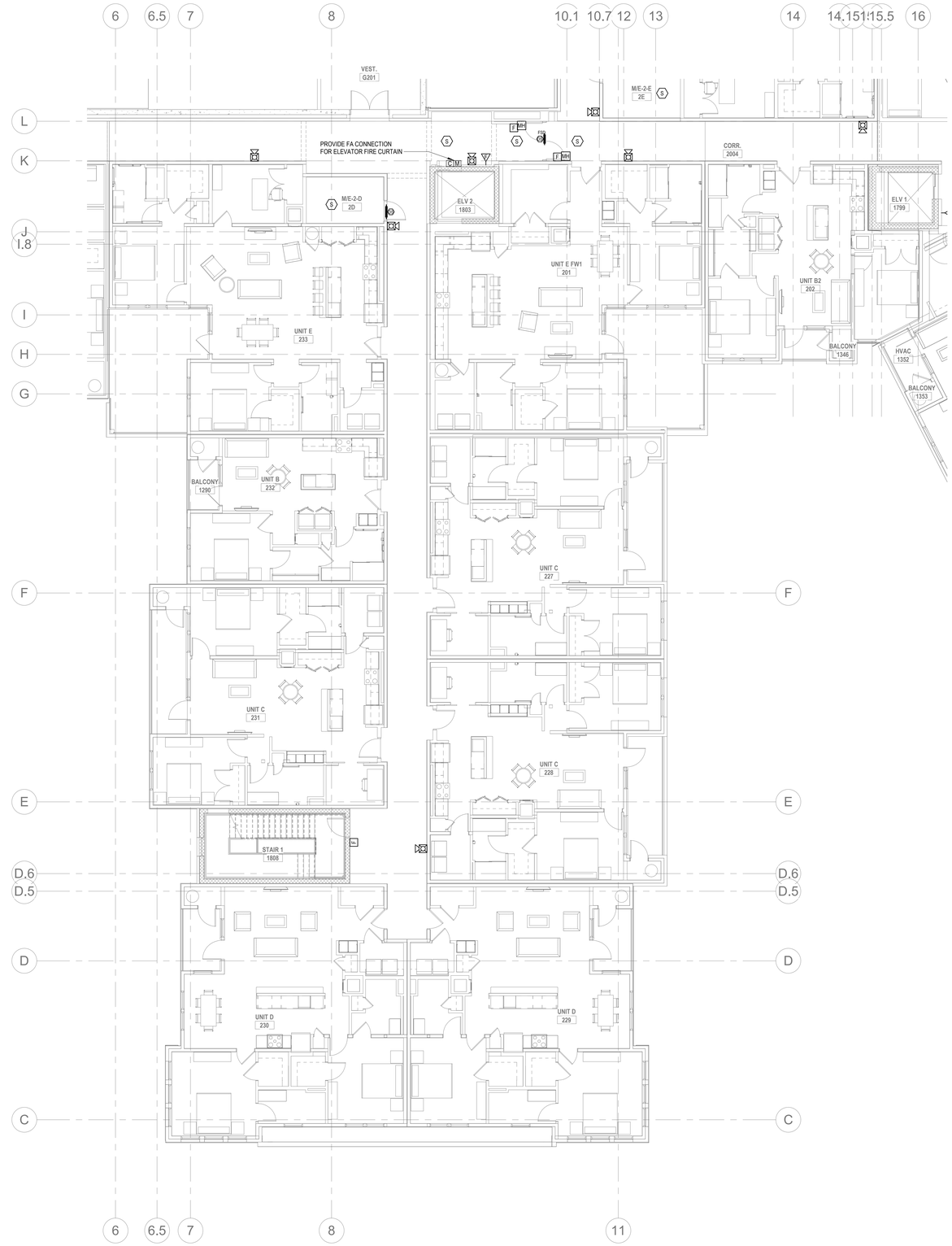


4 FA2.05B **FIRE ALARM - SECOND FLOOR ENLARGED PLAN B2**
1/8" = 1'-0"



3 FA2.05B **FIRE ALARM - SECOND FLOOR ENLARGED PLAN B1**
1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/20/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - SECOND FLOOR ENLARGED PLAN B

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA2.05B

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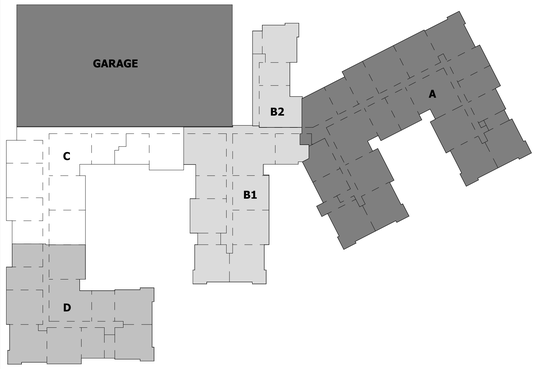

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
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FIRE ALARM - SECOND FLOOR ENLARGED PLAN C
FA2.05C
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/07/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - SECOND FLOOR ENLARGED PLAN C

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA2.05C

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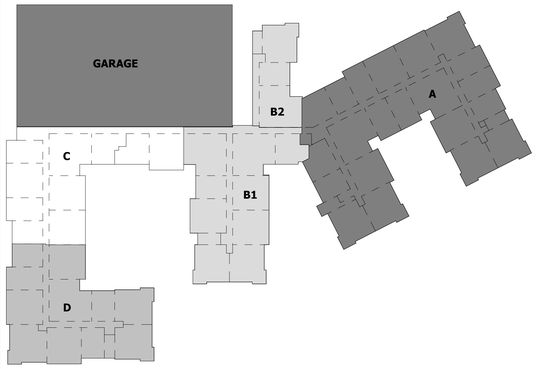

FIRE ALARM GENERAL NOTES

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2 FA2.05D **FIRE ALARM - SECOND FLOOR ENLARGED PLAN D**
1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SEPARATE BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - SECOND FLOOR ENLARGED PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA2.05D

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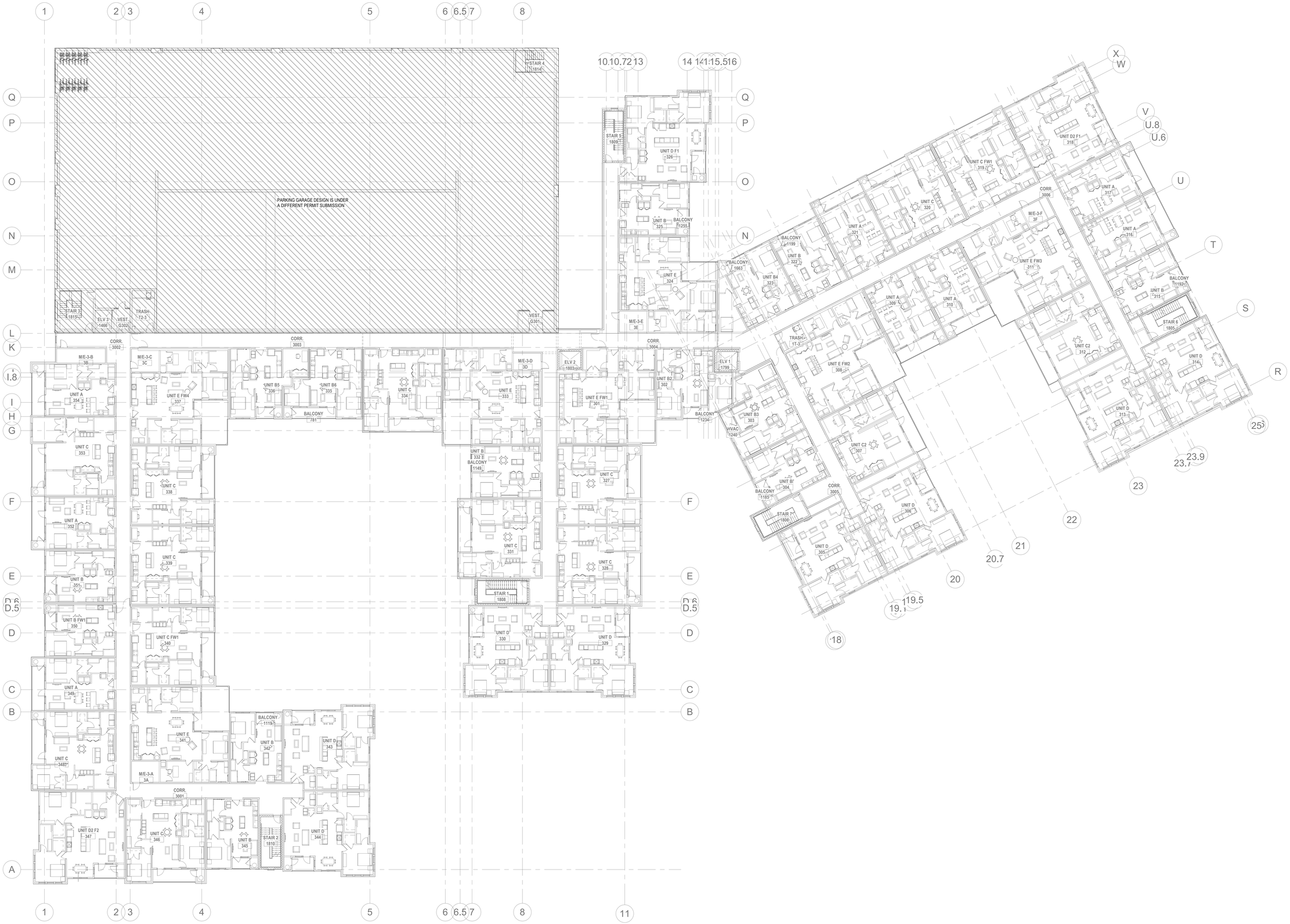

2 FA2.06 **FIRE ALARM - THIRD FLOOR PLAN**
1/16" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - THIRD FLOOR OVERALL PLAN

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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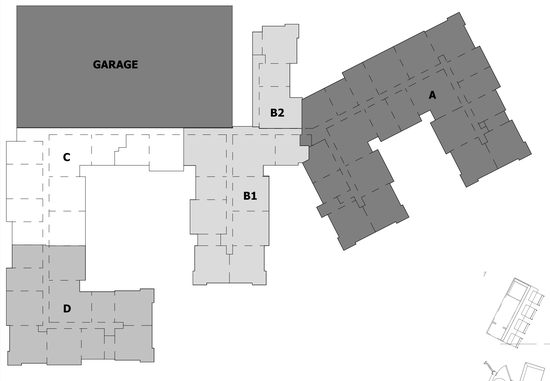

FIRE ALARM GENERAL NOTES

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2 FA2.06A **FIRE ALARM - THIRD FLOOR ENLARGED PLAN A**
1/8" = 1'-0"

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/20/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - THIRD FLOOR ENLARGED PLAN A

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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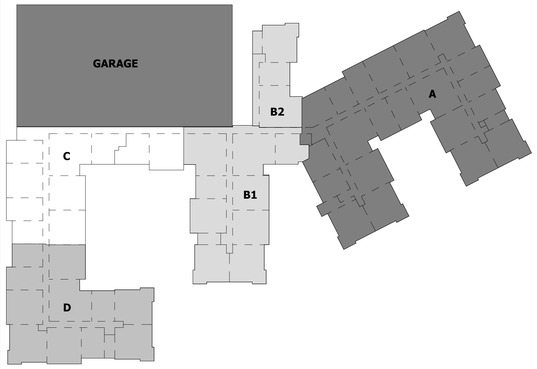

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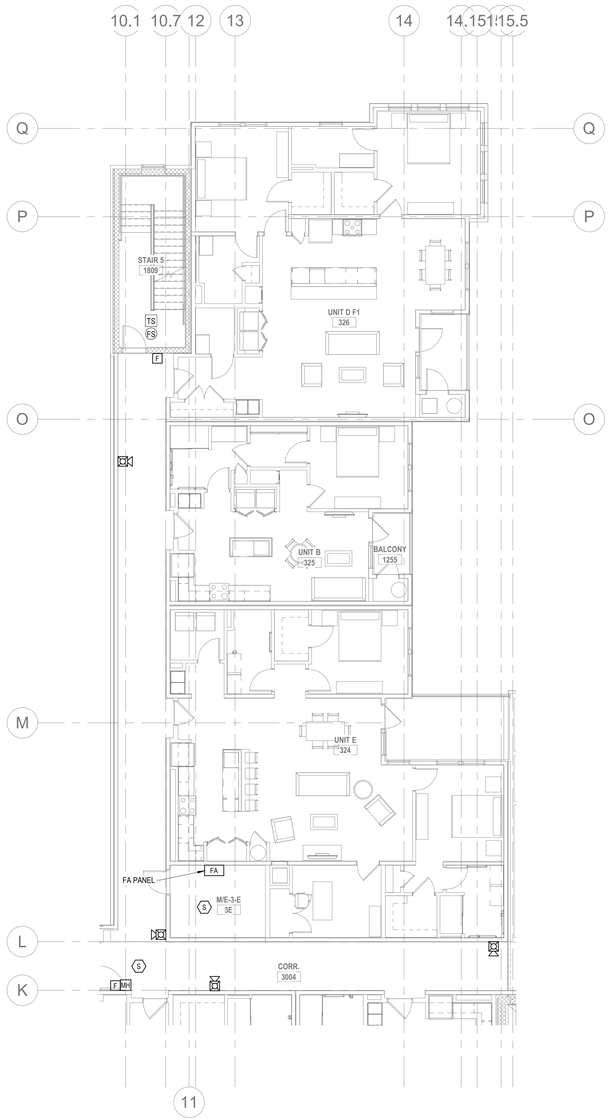
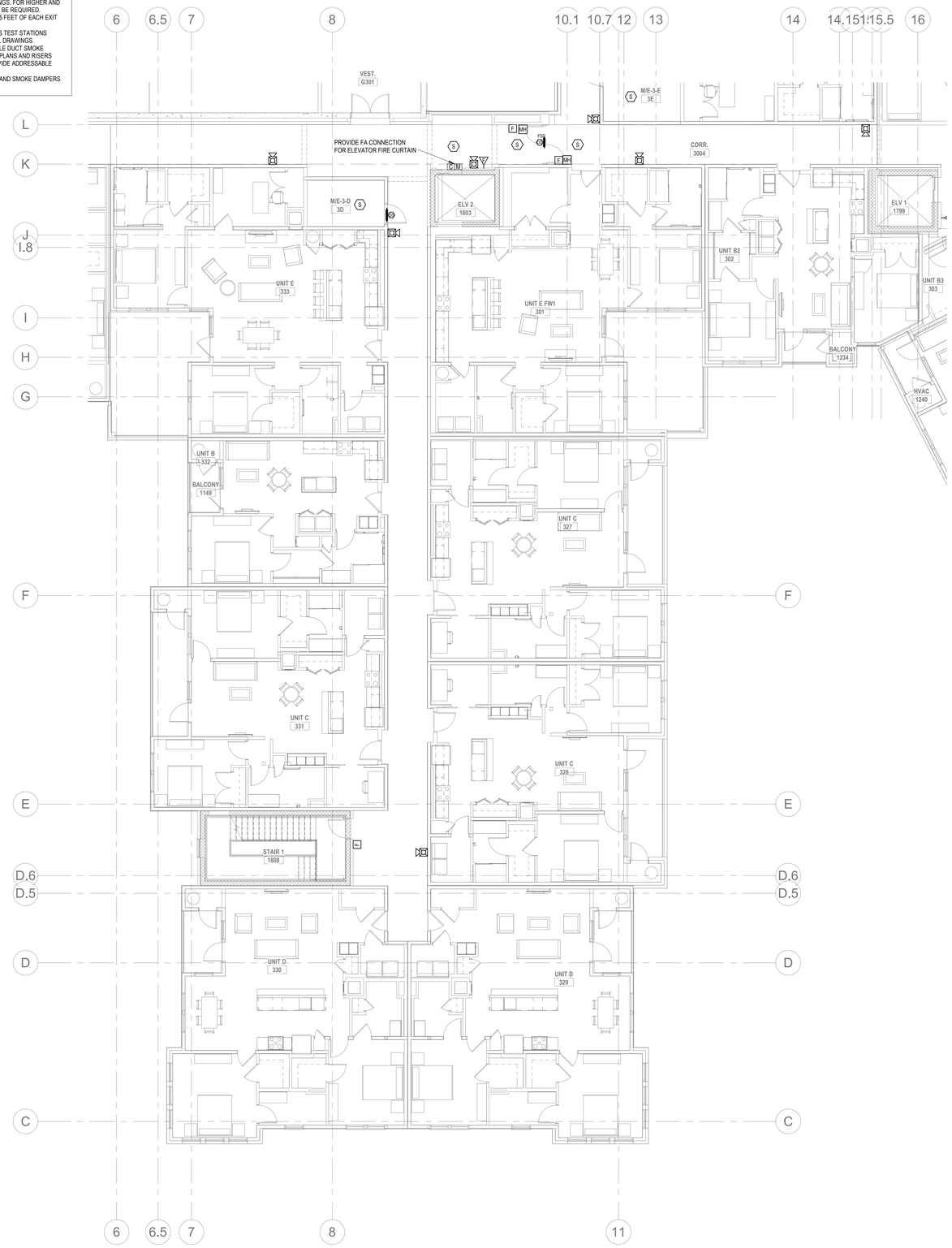


4 FA2.06B **FIRE ALARM - THIRD FLOOR ENLARGED PLAN B2**
1/8" = 1'-0"



3 FA2.06B **FIRE ALARM - THIRD FLOOR ENLARGED PLAN B1**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - THIRD FLOOR ENLARGED PLAN B

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA2.06B

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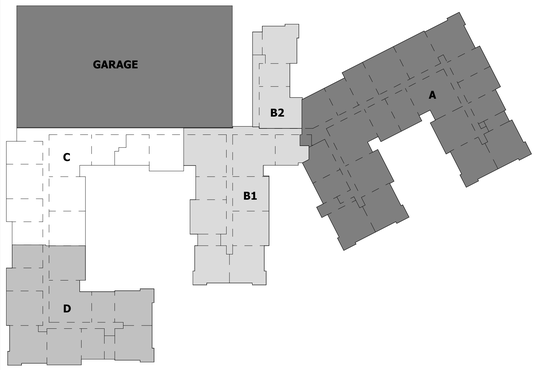

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
3. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
4. REFER TO FIRE PROTECTION PLANS FOR TAMPER AND FLOW SWITCH LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
5. PROVIDE AREA SMOKE DETECTORS IN ELEVATORS LOBBIES AND ELEVATOR MACHINE ROOM(S). SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING WITHIN 21 FEET OF THE CENTERLINE OF EACH ELEVATOR DOOR WITHIN THE ELEVATOR BANK UNDER CONTROL OF THE DETECTOR FOR ELEVATOR LOBBIES UP TO 15 FEET IN HEIGHT WITH FLAT AND SMOOTH CEILINGS. FOR HIGHER AND UNEVEN CEILINGS, ADDITIONAL SMOKE DETECTORS MAY BE REQUIRED.
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8. PROVIDE AND INSTALL SYSTEM FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTORS AS INDICATED ON THE MECHANICAL FLOOR PLANS AND RISERS FOR FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. PROVIDE ADDRESSABLE CONTROL RELAY AT EACH DAMPER.
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2 FA2.06C **FIRE ALARM - THIRD FLOOR ENLARGED PLAN C**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT SET, BUDGET PRICING SET	11/30/2022
2	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - THIRD FLOOR ENLARGED PLAN C

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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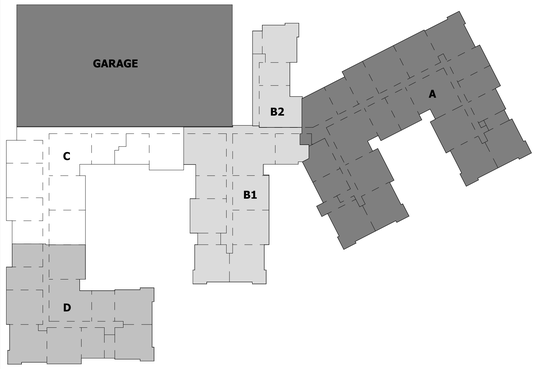

FIRE ALARM GENERAL NOTES

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2 FA2.06D **FIRE ALARM - THIRD FLOOR ENLARGED PLAN D**
1/8" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - THIRD FLOOR ENLARGED PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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2 FA2.07 **FIRE ALARM - FOURTH FLOOR PLAN**
1/16" = 1'-0"

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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	PERMIT TTC BUDGET PRICING SET PERMIT SET	11/01/2022 12/20/2022

Project Status

FIRE ALARM - FOURTH FLOOR OVERALL PLAN

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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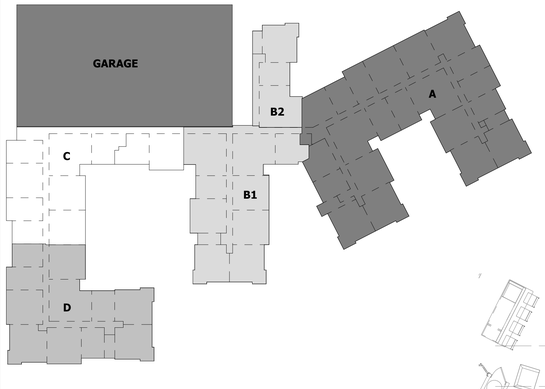

FIRE ALARM GENERAL NOTES

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2 FA2.07A **FIRE ALARM - FOURTH FLOOR ENLARGED PLAN A**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/30/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FOURTH FLOOR ENLARGED PLAN A

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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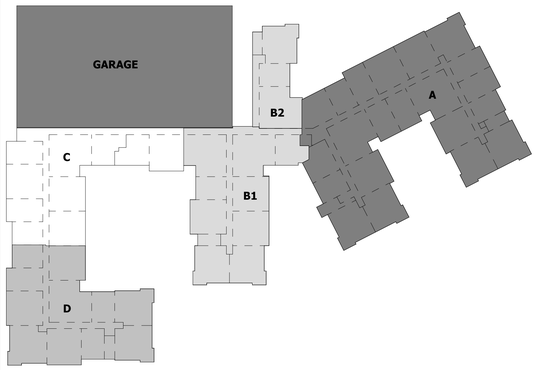

FIRE ALARM GENERAL NOTES

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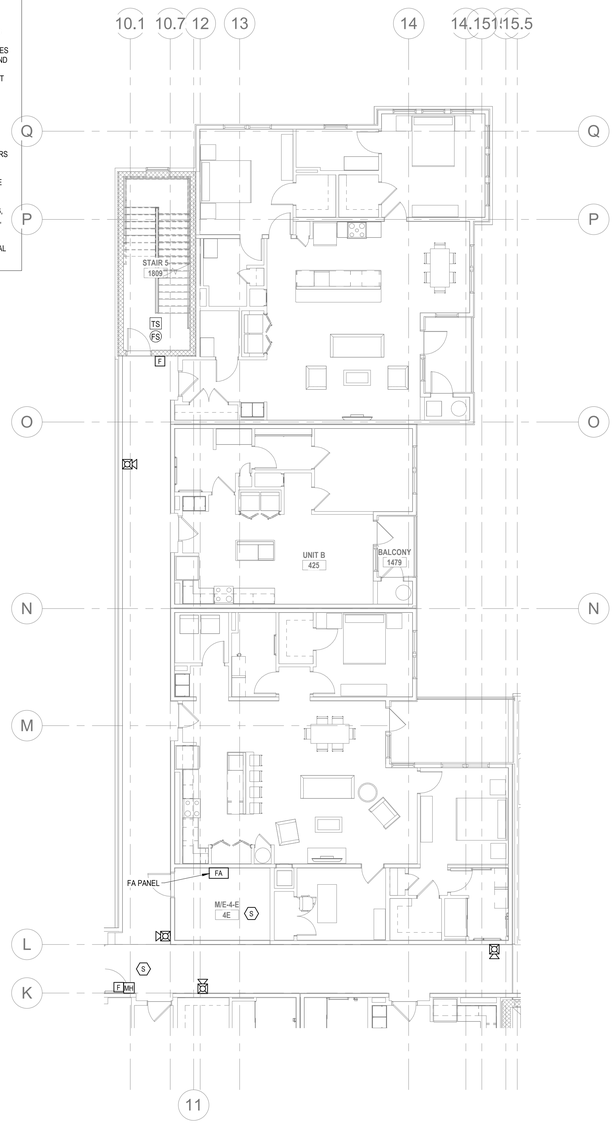
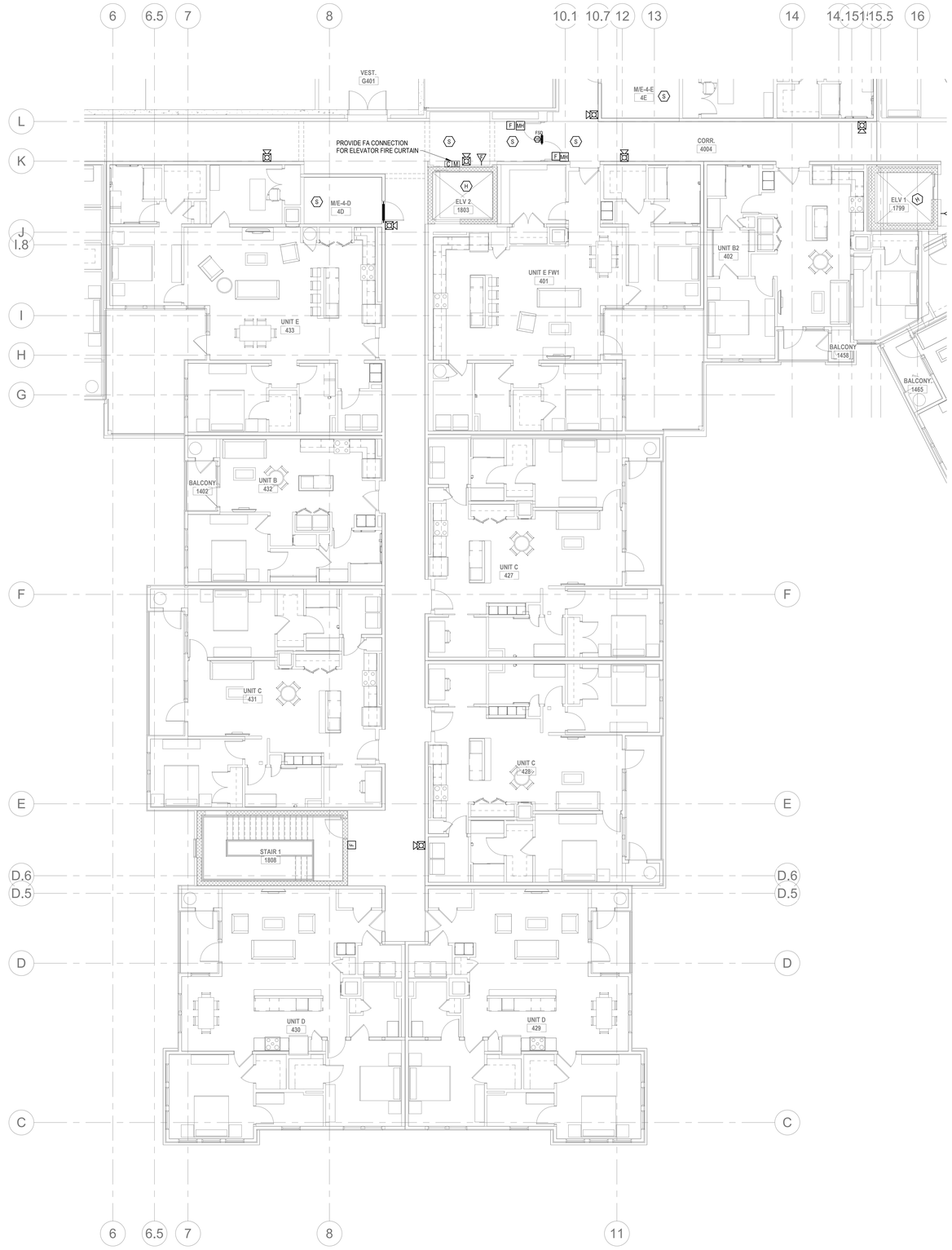


4 FA2.07B **FIRE ALARM - FOURTH FLOOR ENLARGED PLAN B2**
1/8" = 1'-0"



2 FA2.07B **FIRE ALARM - FOURTH FLOOR ENLARGED PLAN B1**
1/8" = 1'-0"

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P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FOURTH FLOOR ENLARGED PLAN B

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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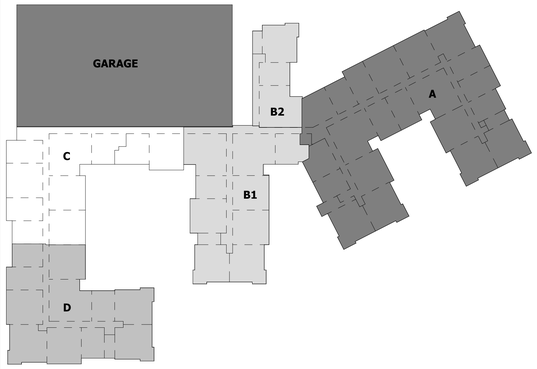

FIRE ALARM GENERAL NOTES

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2 FA2.07C **FIRE ALARM - FOURTH FLOOR ENLARGED PLAN C**
1/8" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/07/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FOURTH FLOOR ENLARGED PLAN C

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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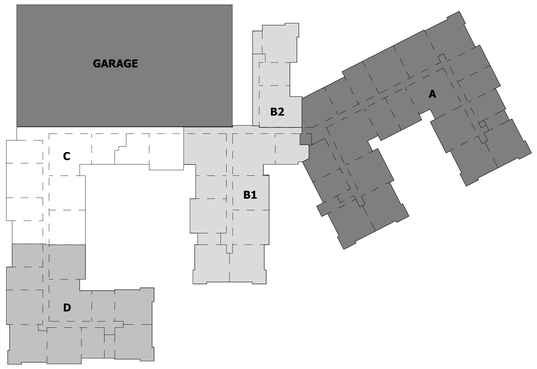

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6. MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5 FEET OF EACH EXIT DOORWAY ON EACH FLOOR.
7. DUCT SMOKE DETECTORS AND DUCT SMOKE DETECTORS TEST STATIONS LOCATIONS TO BE COORDINATED WITH THE MECHANICAL DRAWINGS.
8. PROVIDE AND INSTALL SYSTEM FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTORS AS INDICATED ON THE MECHANICAL FLOOR PLANS AND RISERS FOR FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. PROVIDE ADDRESSABLE CONTROL RELAY AT EACH DAMPER.
9. PROVIDE 120V EMERGENCY POWER TO ALL FIRE/SMOKE AND SMOKE DAMPERS INDICATED ON THE MECHANICAL DRAWINGS.
10. THESE FIRE ALARM DRAWINGS ARE PERFORMANCE SPECIFICATION ONLY. CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM DESIGN IN COMPLIANCE WITH NFPA 72, THE IBC, NFPA 101, AND ANY OTHER ENFORCED CODES AND AMENDMENTS, INCLUDING ENGINEERED SIGNED AND SEALED DRAWINGS, POINT TO POINT WIRING WITH PROPOSED CIRCUITING OR CONDUIT ROUTING, ALL APPLICABLE CALCULATIONS, DEVICE MANUFACTURERS AND QUANTITIES, WIRING DIAGRAMS, AND SHOP SUBMITTALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED PERMITS, INSPECTIONS, AND TESTING. CONSULT LOCAL BUILDING AUTHORITY AND FIRE MARSHAL REGARDING LOCAL AREA'S REQUIREMENTS.

2 FA2.07D **FIRE ALARM - FOURTH FLOOR ENLARGED PLAN D**
1/8" = 1'-0"

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
1	SCHEMATIC BUDGET PRICING SET	11/01/2022
	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - FOURTH FLOOR ENLARGED PLAN D

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA2.07D

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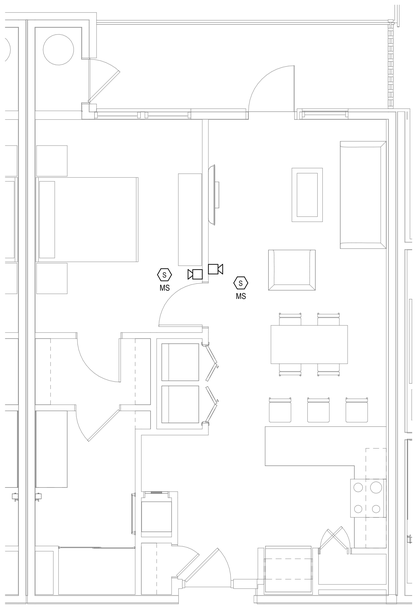
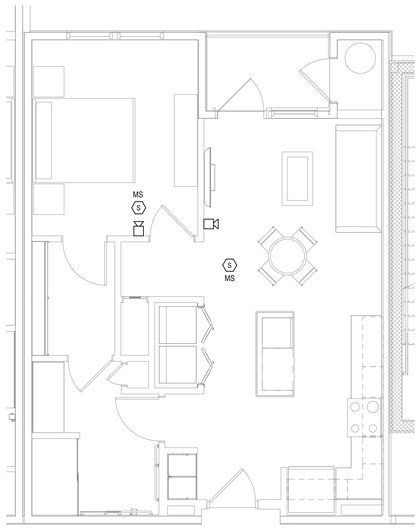
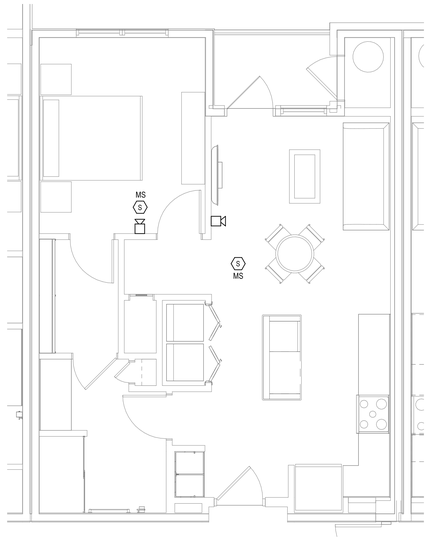


1 FA6.01 **FIRE ALARM - UNIT - A PLAN**
1/4" = 1'-0"



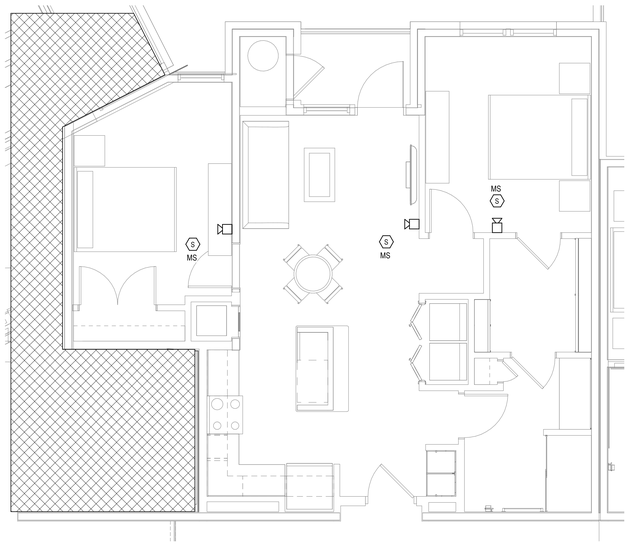
2 FA6.01 **FIRE ALARM - UNIT - B PLAN**
1/4" = 1'-0"



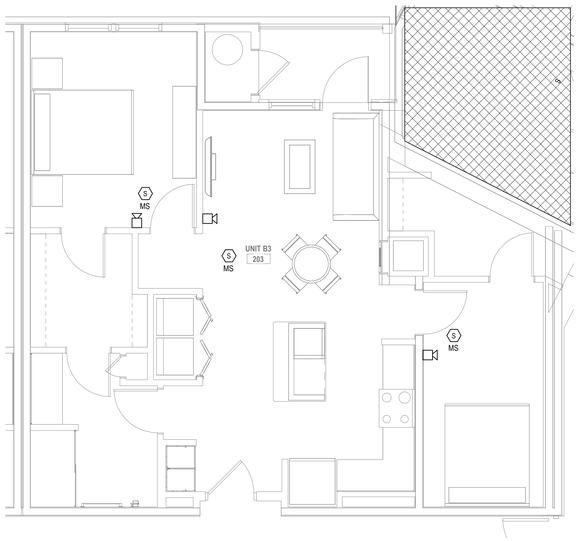
3 FA6.01 **FIRE ALARM - UNIT - B (FW-1) PLAN**
1/4" = 1'-0"

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
3. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
4. REFER TO FIRE PROTECTION PLANS FOR TAMPER AND FLOW SWITCH LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
5. PROVIDE AREA SMOKE DETECTORS IN ELEVATORS LOBBIES AND ELEVATOR MACHINE ROOM(S). SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING WITHIN 21 FEET OF THE CENTERLINE OF EACH ELEVATOR DOOR WITHIN THE ELEVATOR BANK UNDER CONTROL OF THE DETECTOR FOR ELEVATOR LOBBIES UP TO 15 FEET IN HEIGHT WITH FLAT AND SMOOTH CEILINGS. FOR HIGHER AND UNEVEN CEILINGS, ADDITIONAL SMOKE DETECTORS MAY BE REQUIRED.
6. MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5 FEET OF EACH EXIT DOORWAY ON EACH FLOOR.
7. DUCT SMOKE DETECTORS AND DUCT SMOKE DETECTORS TEST STATIONS LOCATIONS TO BE COORDINATED WITH THE MECHANICAL DRAWINGS.
8. PROVIDE AND INSTALL SYSTEM FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTORS AS INDICATED ON THE MECHANICAL FLOOR PLANS AND RISERS FOR FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. PROVIDE ADDRESSABLE CONTROL RELAY AT EACH DAMPER.
9. PROVIDE 120V EMERGENCY POWER TO ALL FIRE/SMOKE AND SMOKE DAMPERS INDICATED ON THE MECHANICAL DRAWINGS.
10. THESE FIRE ALARM DRAWINGS ARE PERFORMANCE SPECIFICATION ONLY. CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM DESIGN IN COMPLIANCE WITH NFPA 72, THE IBC, NFPA 101, AND ANY OTHER ENFORCED CODES AND AMENDMENTS, INCLUDING ENGINEERED SIGNED AND SEALED DRAWINGS, POINT TO POINT WIRING WITH PROPOSED CIRCUITING OR CONDUIT ROUTING, ALL APPLICABLE CALCULATIONS, DEVICE MANUFACTURERS AND QUANTITIES, WIRING DIAGRAMS, AND SHOP SUBMITTALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED PERMITS, INSPECTIONS, AND TESTING. CONSULT LOCAL BUILDING AUTHORITY AND FIRE MARSHAL REGARDING LOCAL AREA'S REQUIREMENTS.
11. FIRE ALARM NOTIFICATION STROBE CIRCUIT CAPACITY TO BE PROVIDED TO ACCOMMODATE FUTURE CONVERSION OF ANY GIVEN APARTMENT TO A 'HEARING IMPAIRED UNIT'. ADDITIONALLY, PROVIDE MEANS TO ACCOMMODATE FUTURE DOORBELL AND STROBE SYSTEM FOR ANY FUTURE 'HEARING IMPAIRED UNIT'.



4 FA6.01 **FIRE ALARM - UNIT - B2 PLAN**
1/4" = 1'-0"



5 FA6.01 **FIRE ALARM - UNIT - B3 PLAN**
1/4" = 1'-0"

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PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/30/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - UNIT PLANS

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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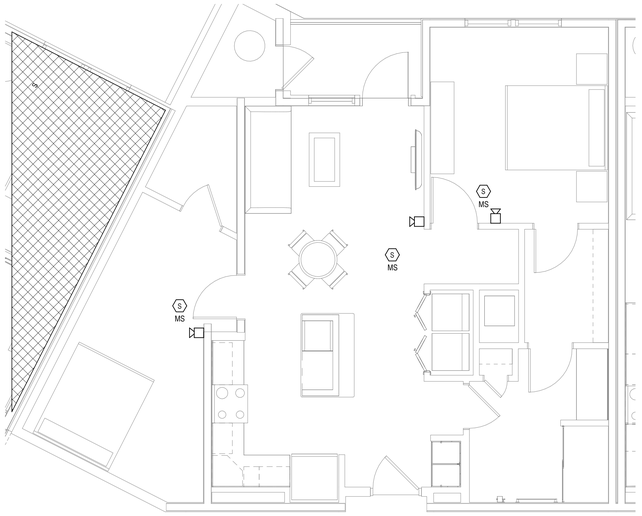
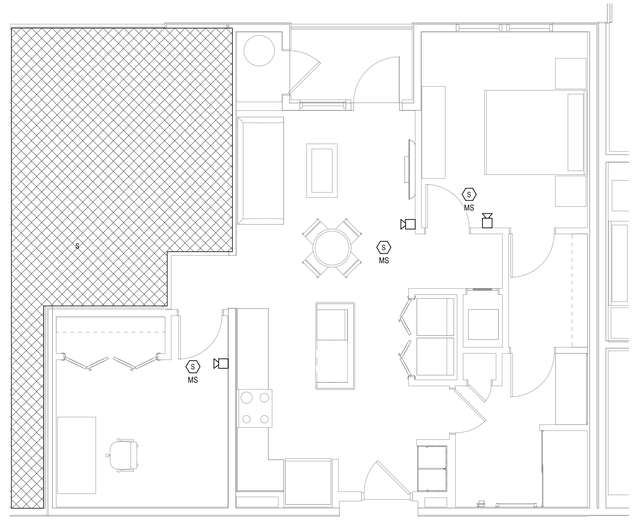
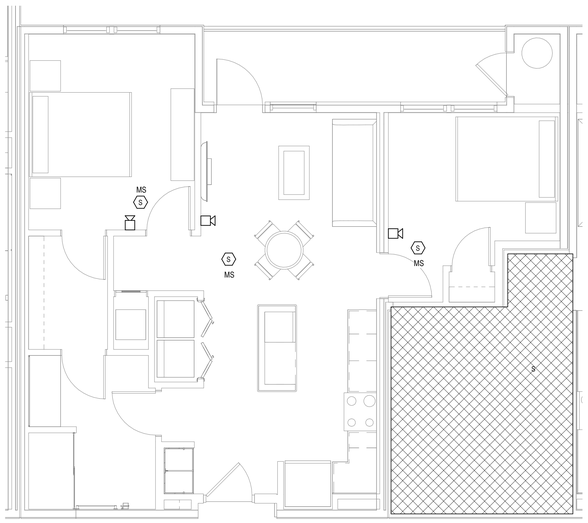


1 FA6.02 **FIRE ALARM - UNIT - B4 PLAN**
1/4" = 1'-0"



2 FA6.02 **FIRE ALARM - UNIT - B5 PLAN**
1/4" = 1'-0"



3 FA6.02 **FIRE ALARM - UNIT - B6 PLAN**
1/4" = 1'-0"

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
3. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
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5. PROVIDE AREA SMOKE DETECTORS IN ELEVATORS LOBBIES AND ELEVATOR MACHINE ROOM(S). SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING WITHIN 21 FEET OF THE CENTERLINE OF EACH ELEVATOR DOOR WITHIN THE ELEVATOR BANK UNDER CONTROL OF THE DETECTOR FOR ELEVATOR LOBBIES UP TO 15 FEET IN HEIGHT WITH FLAT AND SMOOTH CEILINGS. FOR HIGHER AND UNEVEN CEILINGS, ADDITIONAL SMOKE DETECTORS MAY BE REQUIRED.
6. MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5 FEET OF EACH EXIT DOORWAY ON EACH FLOOR.
7. DUCT SMOKE DETECTORS AND DUCT SMOKE DETECTORS TEST STATIONS LOCATIONS TO BE COORDINATED WITH THE MECHANICAL DRAWINGS.
8. PROVIDE AND INSTALL SYSTEM FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTORS AS INDICATED ON THE MECHANICAL FLOOR PLANS AND RISERS FOR FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. PROVIDE ADDRESSABLE CONTROL RELAY AT EACH DAMPER.
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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - UNIT PLANS

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

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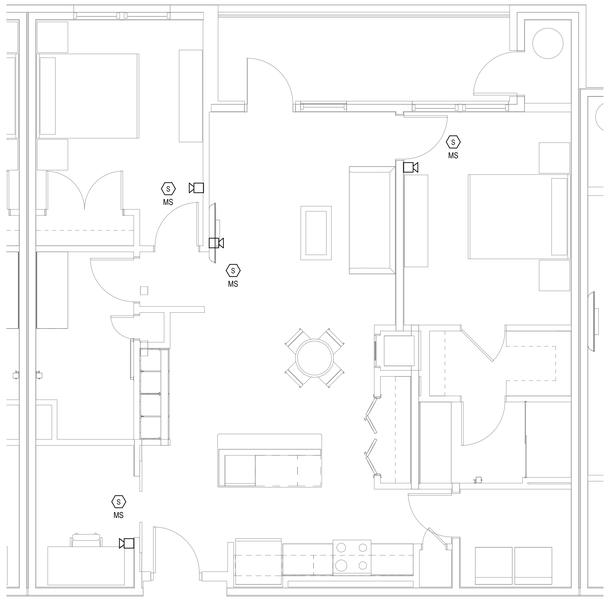
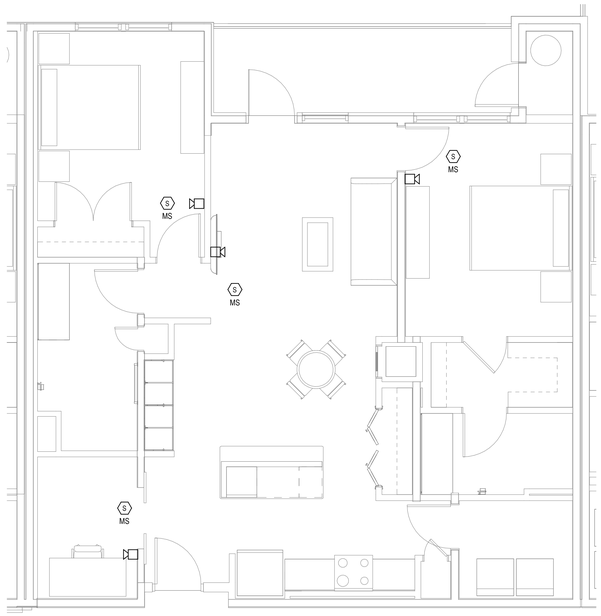
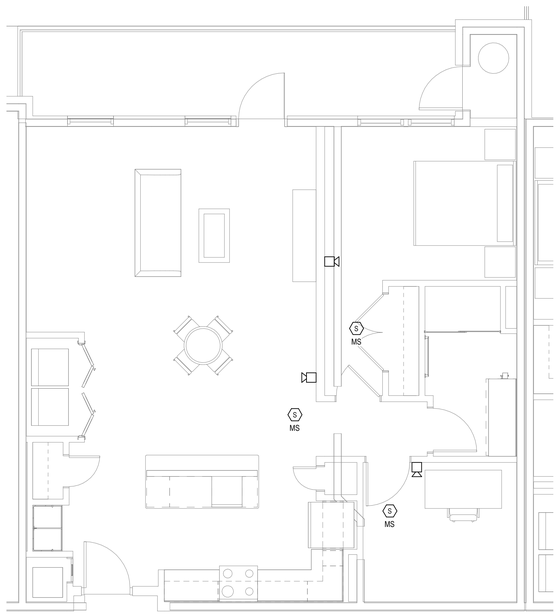


1 FA6.03 **FIRE ALARM - UNIT - C PLAN**
1/4" = 1'-0"



2 FA6.03 **FIRE ALARM - UNIT - C (FW-1) PLAN**
1/4" = 1'-0"



3 FA6.03 **FIRE ALARM - UNIT - C2 PLAN**
1/4" = 1'-0"

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
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6. MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5 FEET OF EACH EXIT DOORWAY ON EACH FLOOR.
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P.A.:	JTG
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DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
	SCHEMATIC BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - UNIT PLANS

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA6.03

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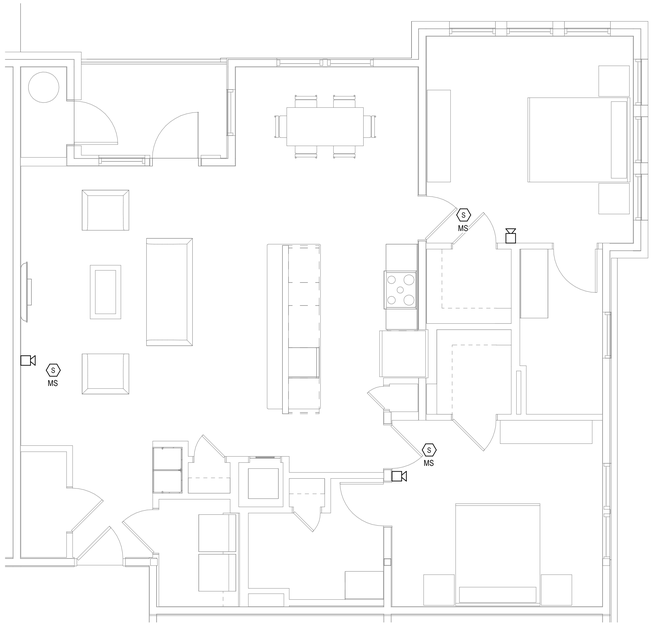
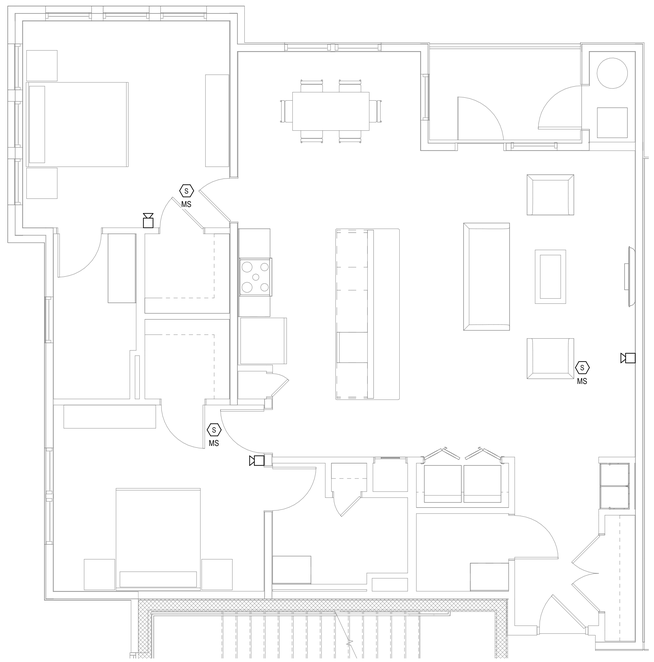
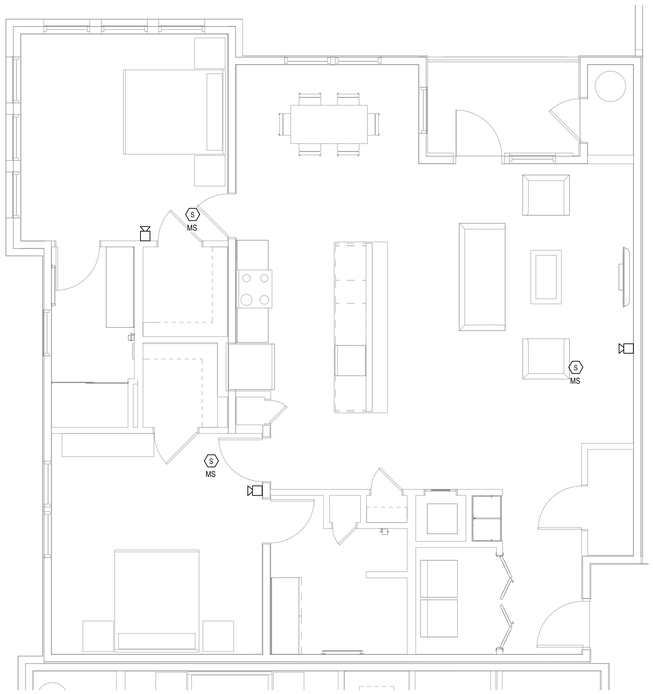


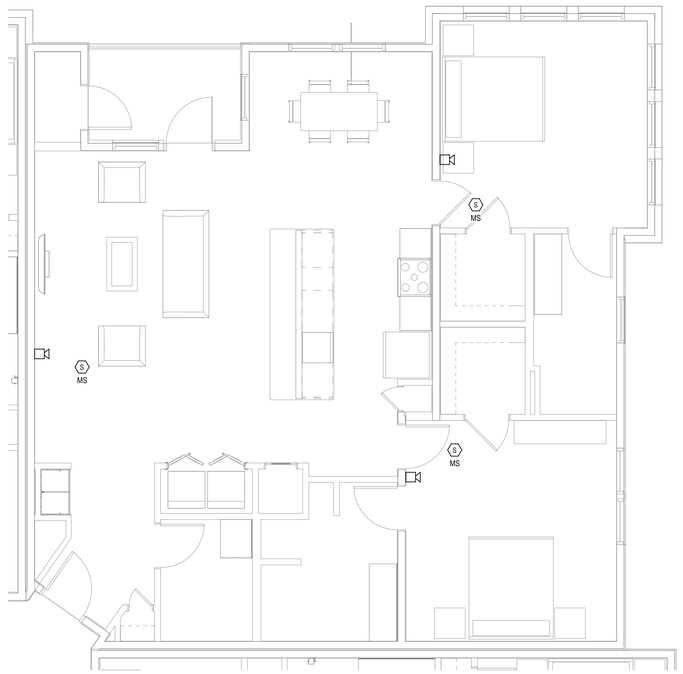
1 FA6.04 **FIRE ALARM - UNIT - D PLAN**
1/4" = 1'-0"



2 FA6.04 **FIRE ALARM - UNIT - D - F1 (ALT. FOYER) PLAN**
1/4" = 1'-0"



3 FA6.04 **FIRE ALARM - UNIT - D2 - F1 PLAN**
1/4" = 1'-0"



4 FA6.04 **FIRE ALARM - UNIT - D2 - F2 (ALT. FOYER) PLAN**
1/4" = 1'-0"

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
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Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

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FA6.04

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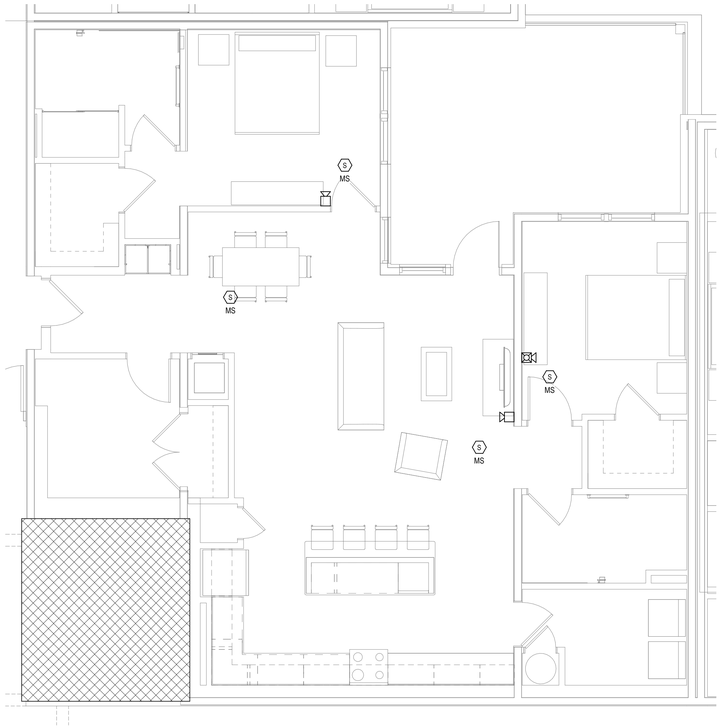
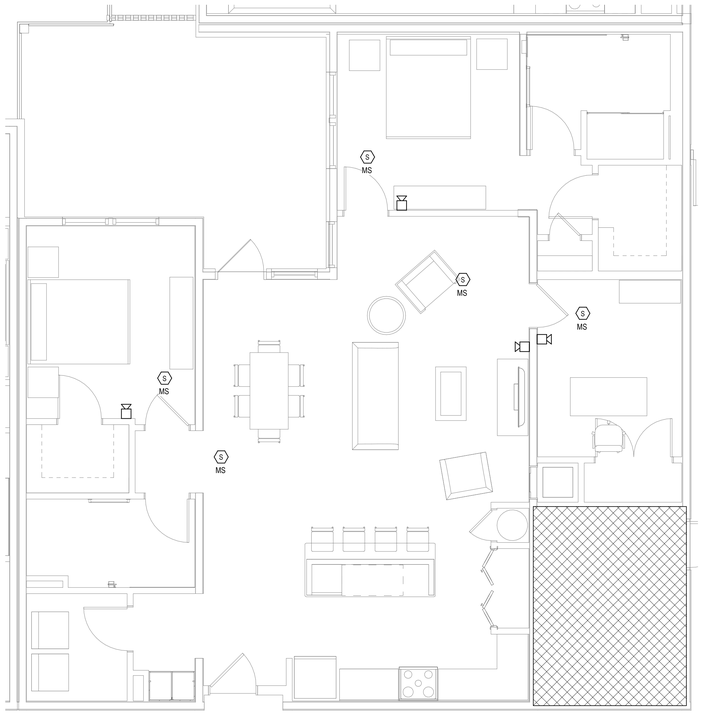
1 FA6.05 **FIRE ALARM - UNIT - E PLAN**
1/4" = 1'-0"



2 FA6.05 **FIRE ALARM - UNIT - E (FW-1) PLAN**
1/4" = 1'-0"

3 FA6.05 **FIRE ALARM - UNIT - E (FW-2) PLAN**
1/4" = 1'-0"



4 FA6.05 **FIRE ALARM - UNIT - E (FW-3) PLAN**
1/4" = 1'-0"

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
3. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
4. REFER TO FIRE PROTECTION PLANS FOR TAMPER AND FLOW SWITCH LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
5. PROVIDE AREA SMOKE DETECTORS IN ELEVATORS LOBBIES AND ELEVATOR MACHINE ROOM(S). SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING WITHIN 21 FEET OF THE CENTERLINE OF EACH ELEVATOR DOOR WITHIN THE ELEVATOR BANK UNDER CONTROL OF THE DETECTOR FOR ELEVATOR LOBBIES UP TO 15 FEET IN HEIGHT WITH FLAT AND SMOOTH CEILINGS. FOR HIGHER AND UNEVEN CEILINGS, ADDITIONAL SMOKE DETECTORS MAY BE REQUIRED.
6. MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5 FEET OF EACH EXIT DOORWAY ON EACH FLOOR.
7. DUCT SMOKE DETECTORS AND DUCT SMOKE DETECTORS TEST STATIONS LOCATIONS TO BE COORDINATED WITH THE MECHANICAL DRAWINGS.
8. PROVIDE AND INSTALL SYSTEM FIRE ALARM ADDRESSABLE DUCT SMOKE DETECTORS AS INDICATED ON THE MECHANICAL FLOOR PLANS AND RISERS FOR FIRE/SMOKE DAMPERS AND SMOKE DAMPERS. PROVIDE ADDRESSABLE CONTROL RELAY AT EACH DAMPER.
9. PROVIDE 120V EMERGENCY POWER TO ALL FIRE/SMOKE AND SMOKE DAMPERS INDICATED ON THE MECHANICAL DRAWINGS.
10. THESE FIRE ALARM DRAWINGS ARE PERFORMANCE SPECIFICATION ONLY. CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM DESIGN IN COMPLIANCE WITH NFPA 72, THE IBC, NFPA 101, AND ANY OTHER ENFORCED CODES AND AMENDMENTS, INCLUDING ENGINEERED SIGNED AND SEALED DRAWINGS, POINT TO POINT WIRING WITH PROPOSED CIRCUITING OR CONDUIT ROUTING, ALL APPLICABLE CALCULATIONS, DEVICE MANUFACTURERS AND QUANTITIES, WIRING DIAGRAMS, AND SHOP SUBMITTALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED PERMITS, INSPECTIONS, AND TESTING. CONSULT LOCAL BUILDING AUTHORITY AND FIRE MARSHAL REGARDING LOCAL AREA'S REQUIREMENTS.

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P.A.:	JTG
P.M.:	TRT
DRAWN BY:	Author
PROJECT NO:	1022747

NO.	REVISION	DATE
	90%SMARTTC BUDGET PRICING SET	11/30/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - UNIT PLANS

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA6.05

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1 FA6.06 **FIRE ALARM - UNIT - E (FW-4) PLAN**
1/4" = 1'-0"

FIRE ALARM GENERAL NOTES

1. REFER TO SHEETS FA0.01 FOR NOTES, SYMBOLS AND ABBREVIATIONS.
2. EC SHALL REFER TO TELECOM, SECURITY & AV DRAWINGS, DETAILS FOR FINAL DEVICE LOCATIONS & RACEWAY REQUIREMENTS.
3. REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR AND FIRE SMOKE DAMPER LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
4. REFER TO FIRE PROTECTION PLANS FOR TAMPER AND FLOW SWITCH LOCATIONS. PROVIDE FA CONNECTION AND WIRE AS REQUIRED.
5. PROVIDE AREA SMOKE DETECTORS IN ELEVATORS LOBBIES AND ELEVATOR MACHINE ROOM(S). SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING WITHIN 21 FEET OF THE CENTERLINE OF EACH ELEVATOR DOOR WITHIN THE ELEVATOR BANK UNDER CONTROL OF THE DETECTOR FOR ELEVATOR LOBBIES UP TO 15 FEET IN HEIGHT WITH FLAT AND SMOOTH CEILINGS. FOR HIGHER AND UNEVEN CEILINGS, ADDITIONAL SMOKE DETECTORS MAY BE REQUIRED.
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PROJECT NO:	1022747

NO.	REVISION	DATE
	CONTRACTOR BUDGET PRICING SET	11/01/2022
1	PERMIT SET	12/20/2022

Project Status

FIRE ALARM - UNIT PLANS

Granite Run Apartments

MIDDLETOWN TOWNSHIP, PA

SCALE:	AS INDICATED
DATE:	11/01/22

FA6.06

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