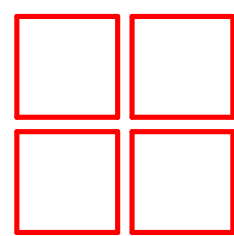
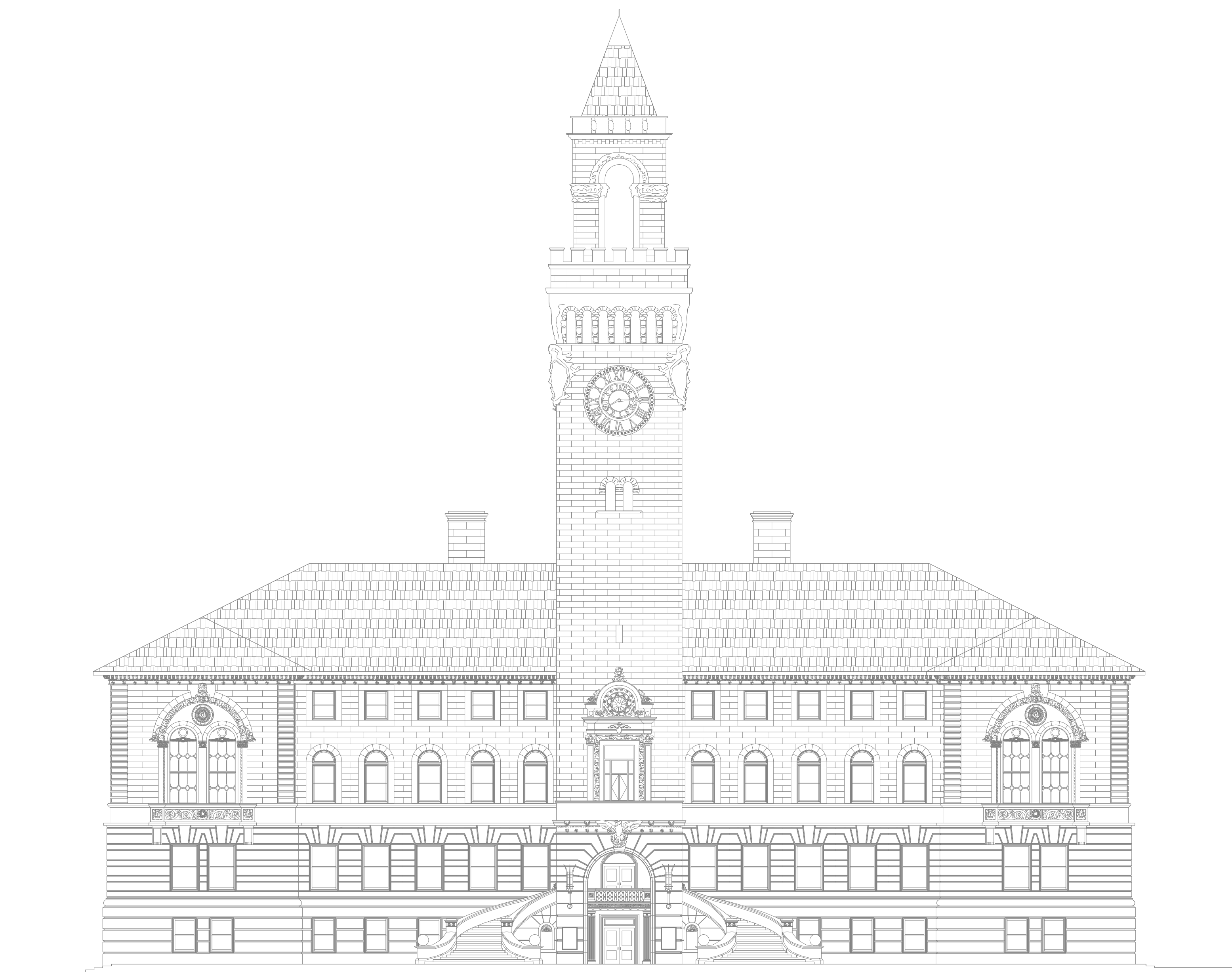


FIRE ALARM SYSTEM UPGRADE
WORCESTER CITY HALL
WORCESTER, MA

BID SET
AUGUST 2021



NAULT ARCHITECTS, INC.

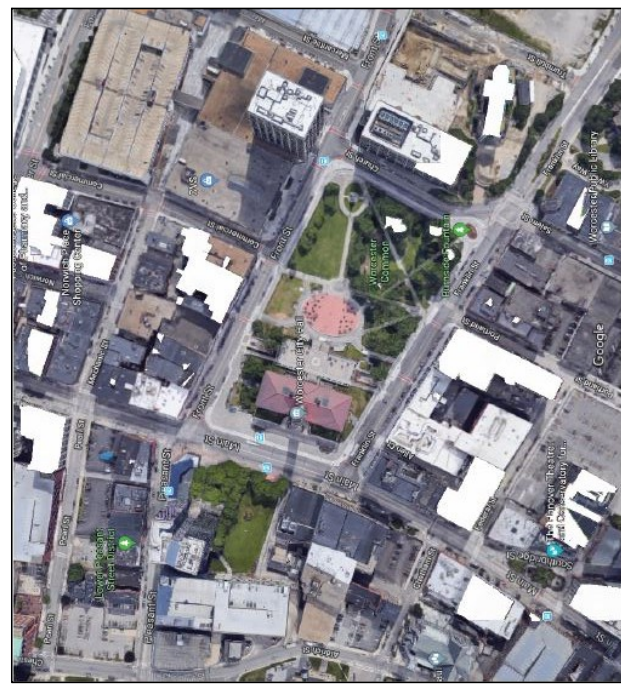
71 HOPE AVENUE
WORCESTER, MA 01603

TEL: (508) 755-6134
FAX: (508) 754-4661

DRAWING LIST

T1 - COVER SHEET
A1 - FIRE ALARM ROOM PLAN AND DETAILS
EQ1 - ELECTRICAL NOTES AND LEGEND
E10 - FIRE ALARM GARAGE AND BASEMENT FLOOR PLAN
E11 - FIRE ALARM FIRST FLOOR PLAN
E12 - FIRE ALARM SECOND FLOOR PLAN
E13 - FIRE ALARM THIRD FLOOR PLAN
E14 - FIRE ALARM FOURTH FLOOR PLAN
E15 - FIRE ALARM ATTIC PLAN
E2.0A - FIRE ALARM RISER PLAN
E2.0B - FIRE ALARM RISER
ED1.0 - FIRE ALARM DEMOLITION BASEMENT PLAN
ED1.1 - FIRE ALARM DEMOLITION FIRST FLOOR PLAN
ED1.2 - FIRE ALARM DEMOLITION SECOND FLOOR PLAN
ED1.3 - FIRE ALARM DEMOLITION THIRD FLOOR PLAN
ED1.4 - FIRE ALARM DEMOLITION FOURTH FLOOR PLAN
ED1.5 - FIRE ALARM DEMOLITION ATTIC PLAN
ED1.6 - FIRE ALARM EXISTING GARAGE PLAN

KEY PLAN



DRAWING TITLE

COVER SHEET

JOB NUMBER: 1563
JOB TITLE

FIRE ALARM SYSTEM UPGRADE
WORCESTER CITY HALL
WORCESTER, MA

CONSULTANT

ARCHITECT

NAULT ARCHITECTS, INC.
71 HOPE AVENUE TEL: (508) 755-6134
WORCESTER, MA 01603 FAX: (508) 754-4661

DRAWING NO.

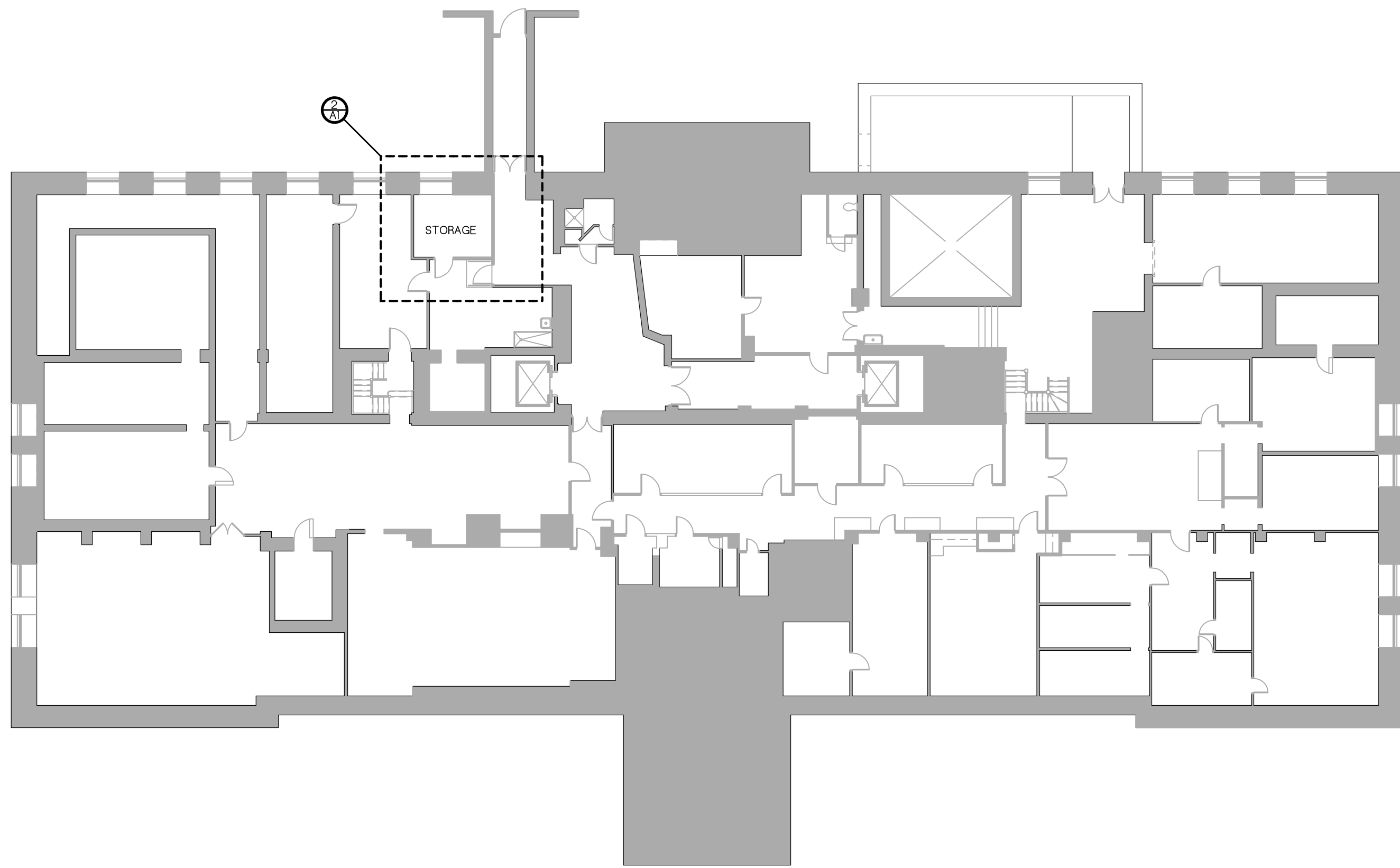
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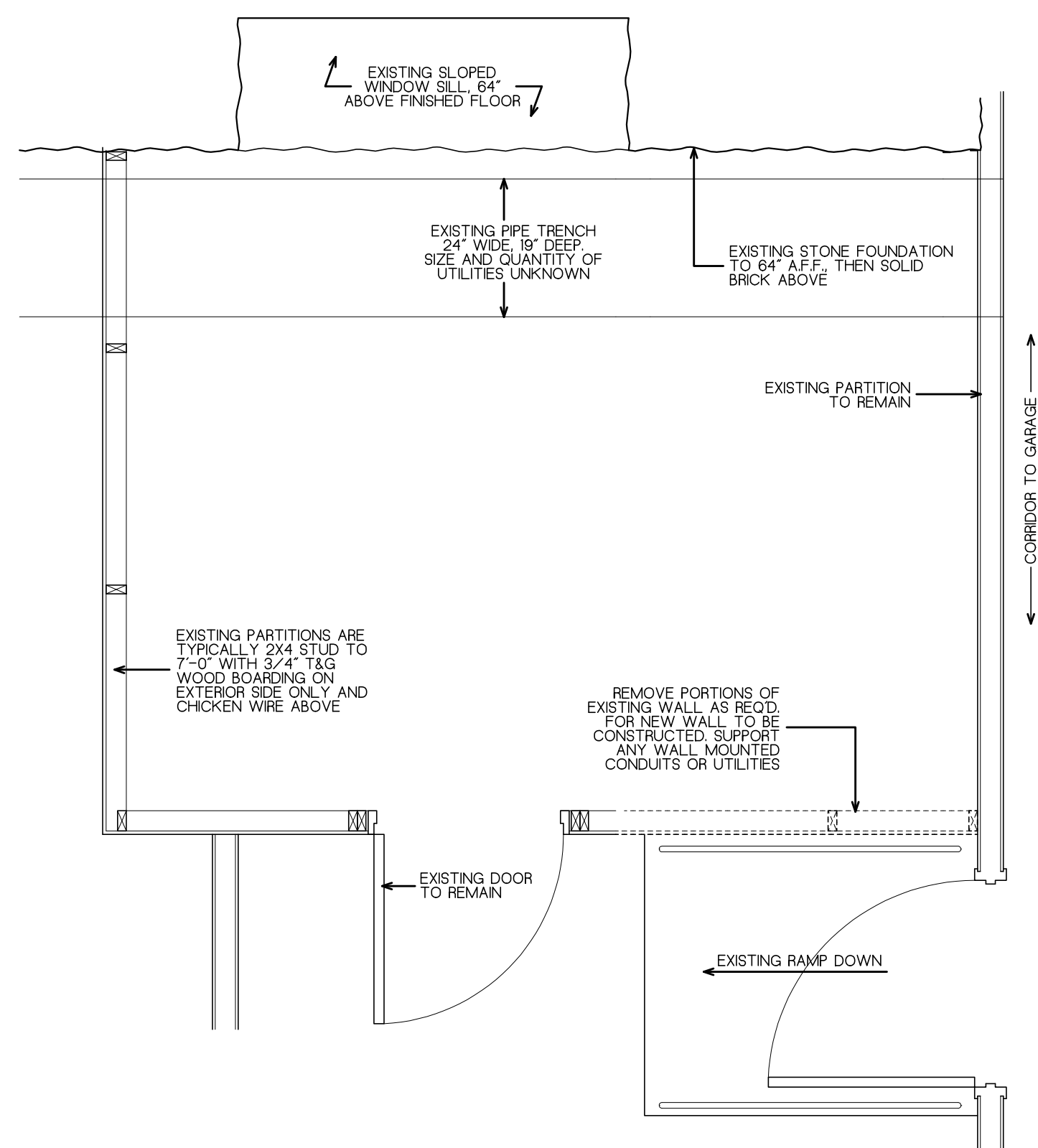
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DATE

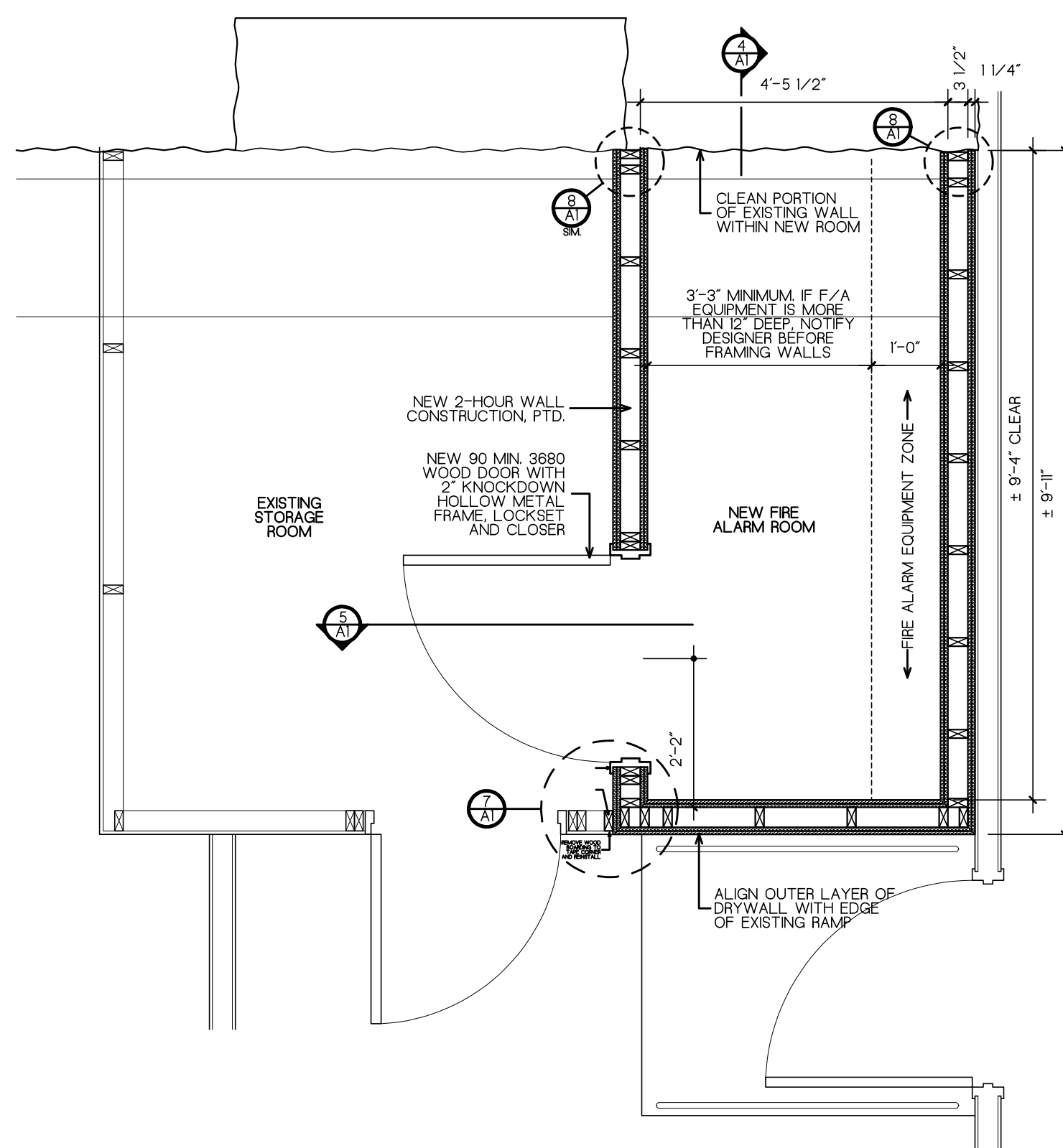
AUGUST 2021



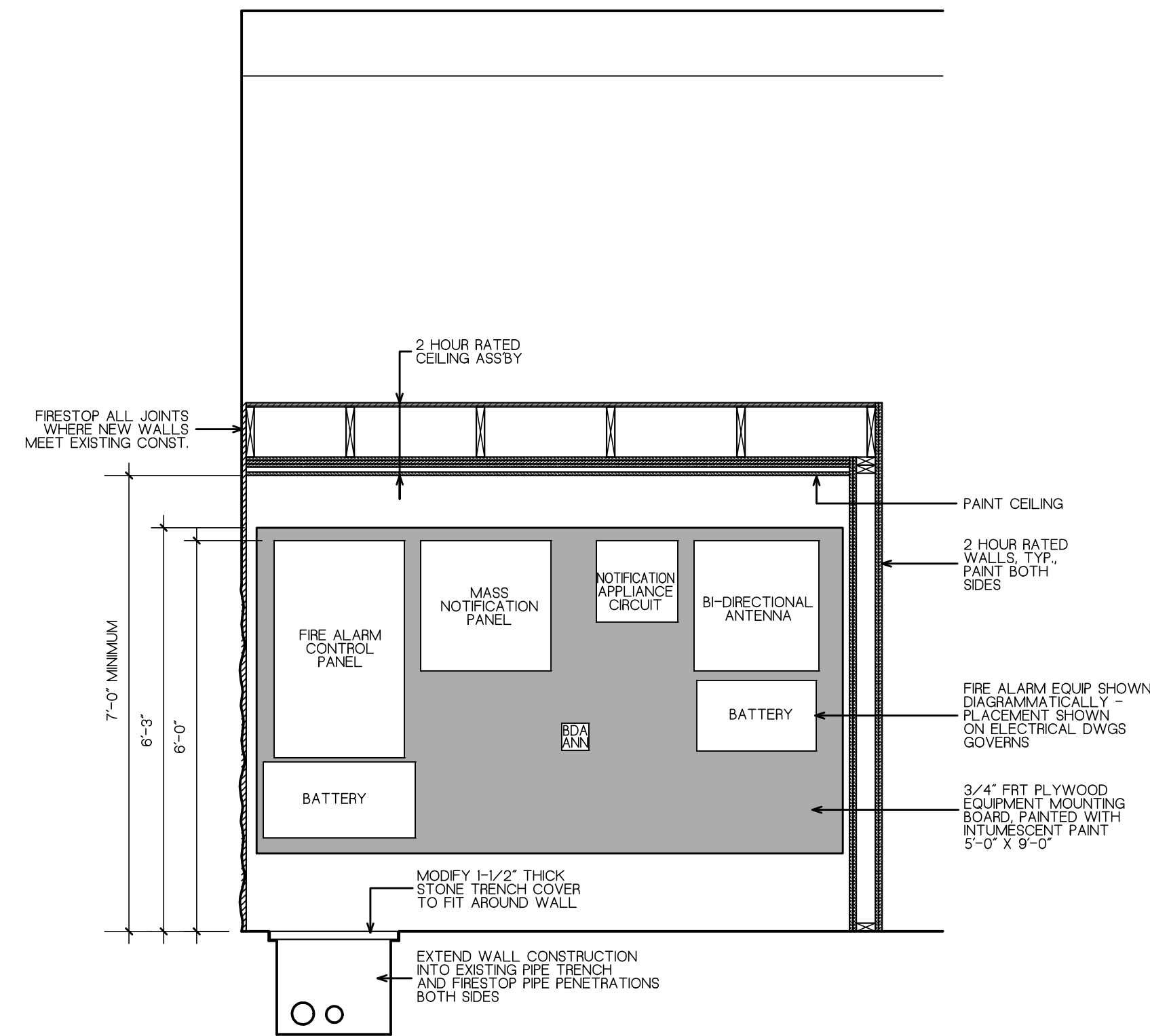
1 BASEMENT KEY PLAN
1/16" = 1'-0"



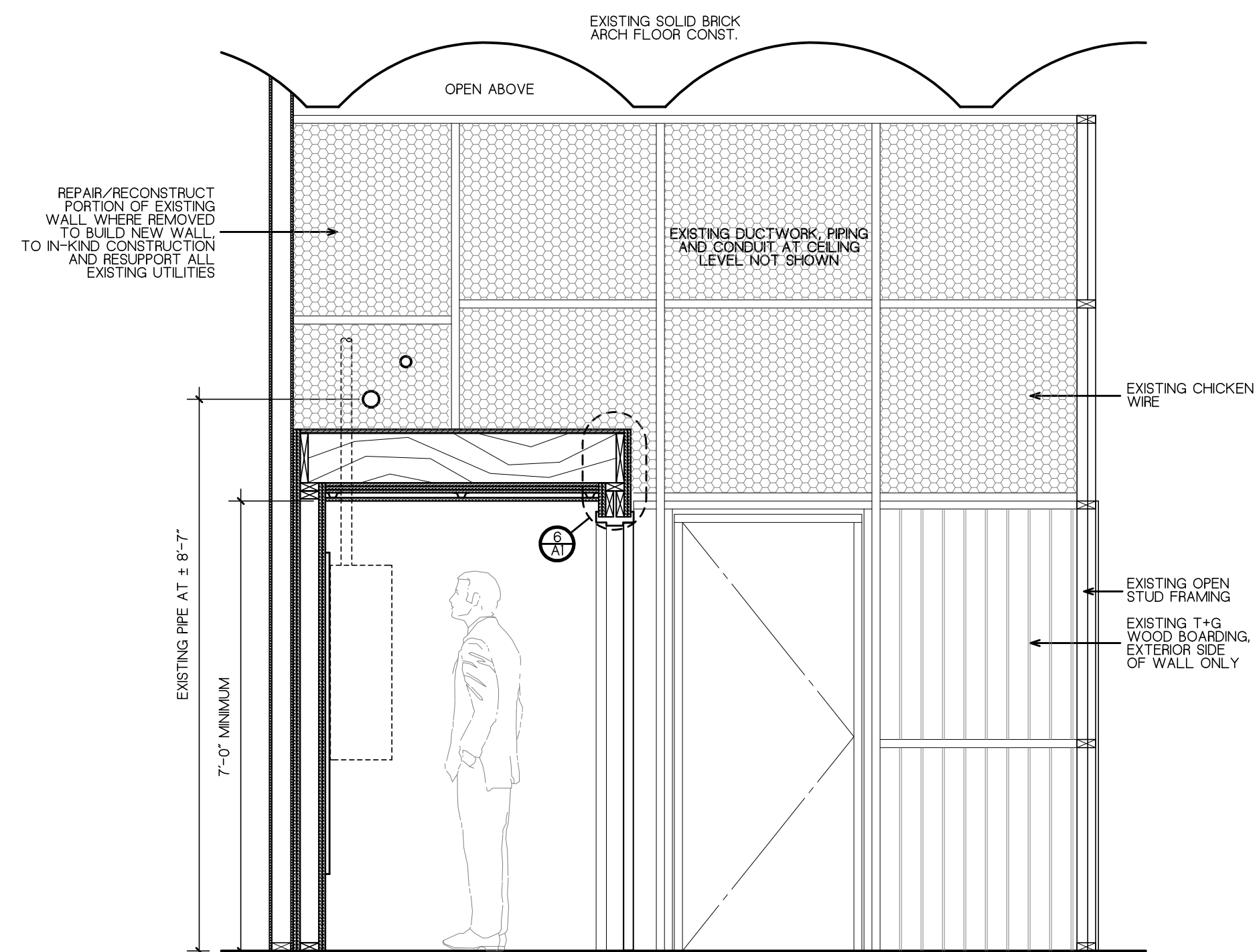
2 DEMOLITION PLAN
1/2" = 1'-0"



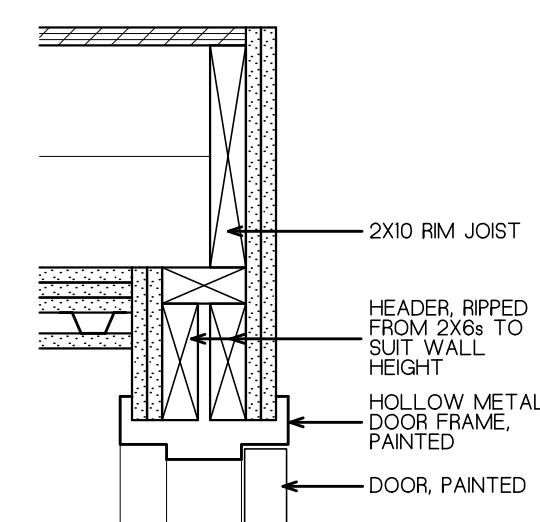
3 NEW CONSTRUCTION PLAN
1/2" = 1'-0"



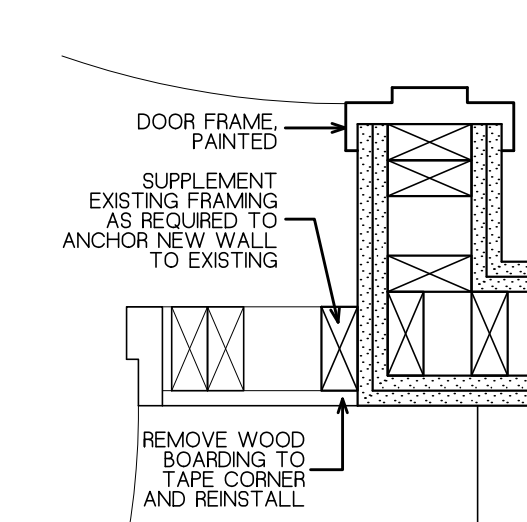
4 SECTION 1
1/2" = 1'-0"



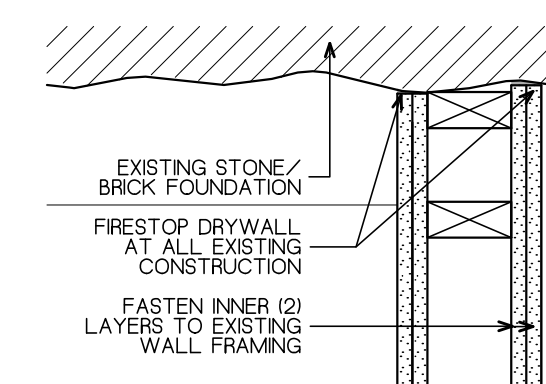
5 SECTION 2
1/2" = 1'-0"



6 HEADER DETAIL
1 1/2" = 1'-0"



7 JAMB DETAIL
1 1/2" = 1'-0"



8 TYP. FIRESTOPPING
1 1/2" = 1'-0"

GENERAL NOTES

2 HOUR RATED WALL CONSTRUCTION
UL DESIGN U301 (BEARING WALL)
- (2) LAYERS 5/8" TYPE X DRYWALL
- 2X4 STUDS 16" ON CENTER
- (2) LAYERS 5/8" TYPE X DRYWALL

2 HOUR RATED CEILING CONSTRUCTION
UL DESIGN L586, GA FILE NO. FC 5725
- 3/4" T+G PLYWOOD
- 2 X 10 JOISTS, 24" ON CENTER
- (3) LAYERS 5/8" TYPE X DRYWALL
- 1/2" METAL FURNING 24" O.C.
- 5/8" DRYWALL, PAINTED

DRAWING TITLE

FIRE ALARM ROOM
PLAN AND DETAILS

JOB NUMBER: 1563
JOB TITLE

FIRE ALARM SYSTEM UPGRADE
WORCESTER CITY HALL
WORCESTER, MA

CONSULTANT

ARCHITECT

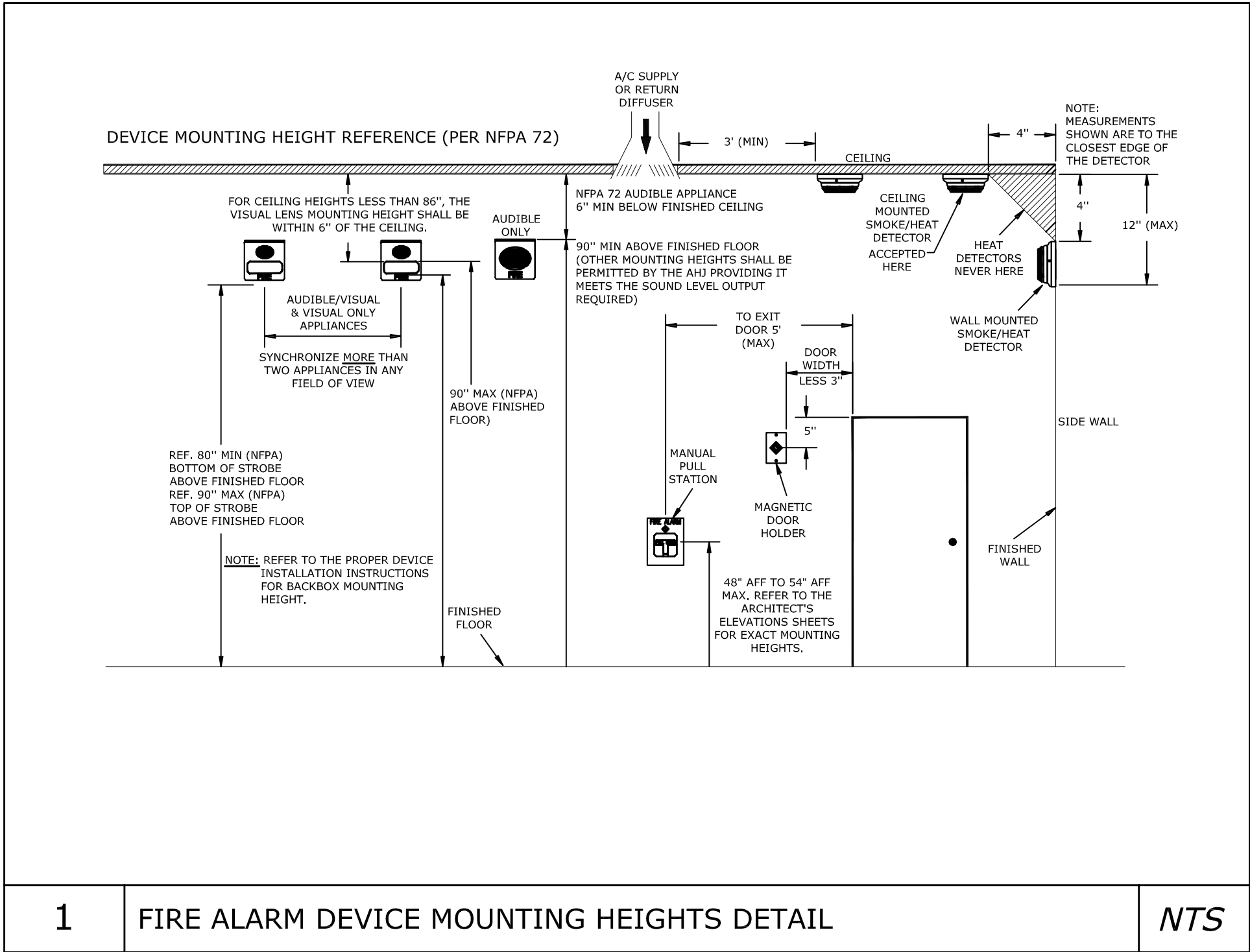
NAULT ARCHITECTS, INC.
11 HOPE AVENUE
WORCESTER, MA 01603
TEL: (508) 756-1134
FAX: (508) 756-4861

SCALE
AS NOTED

DATE
JUNE 2021

DRAWING NO.

A1



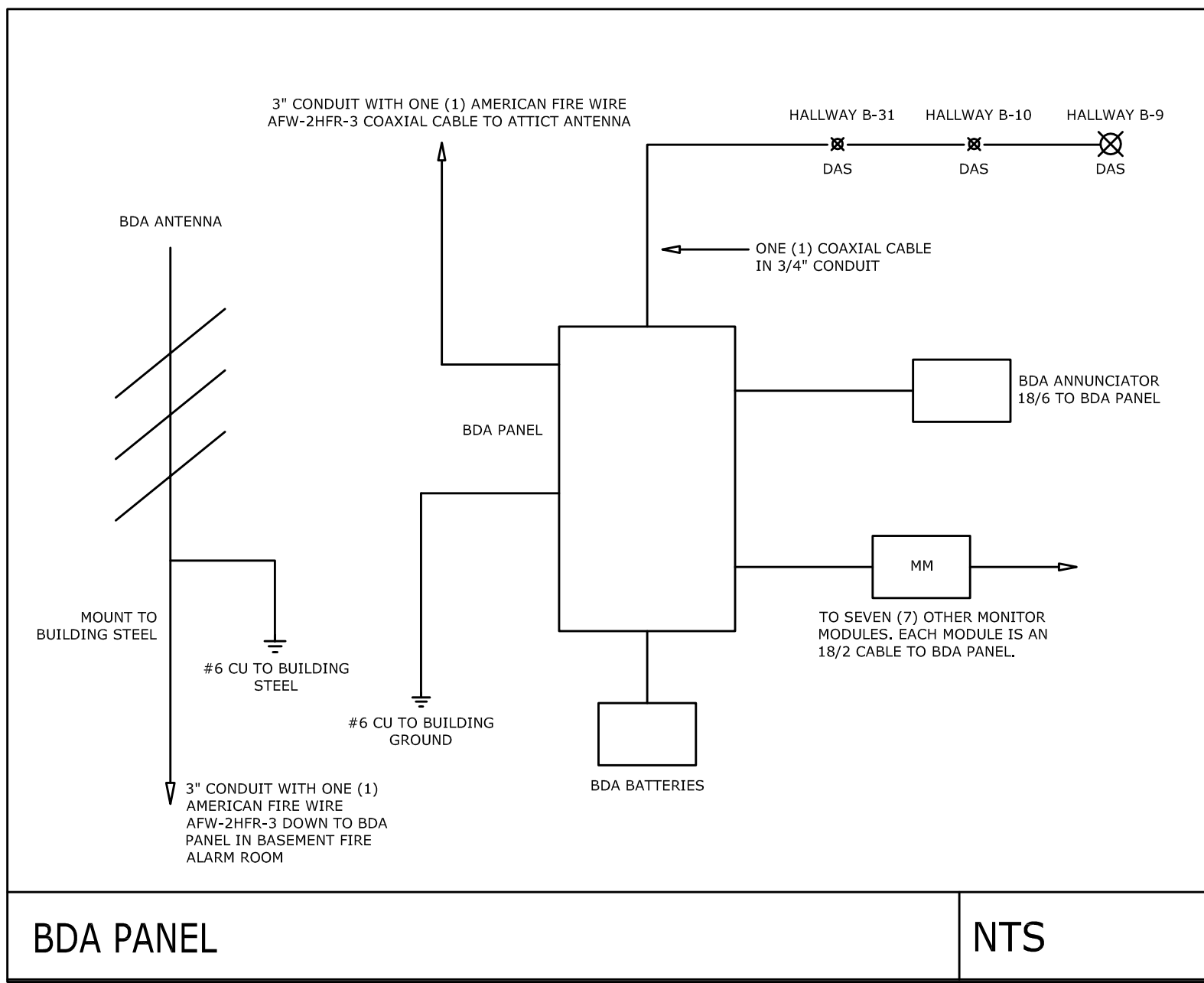
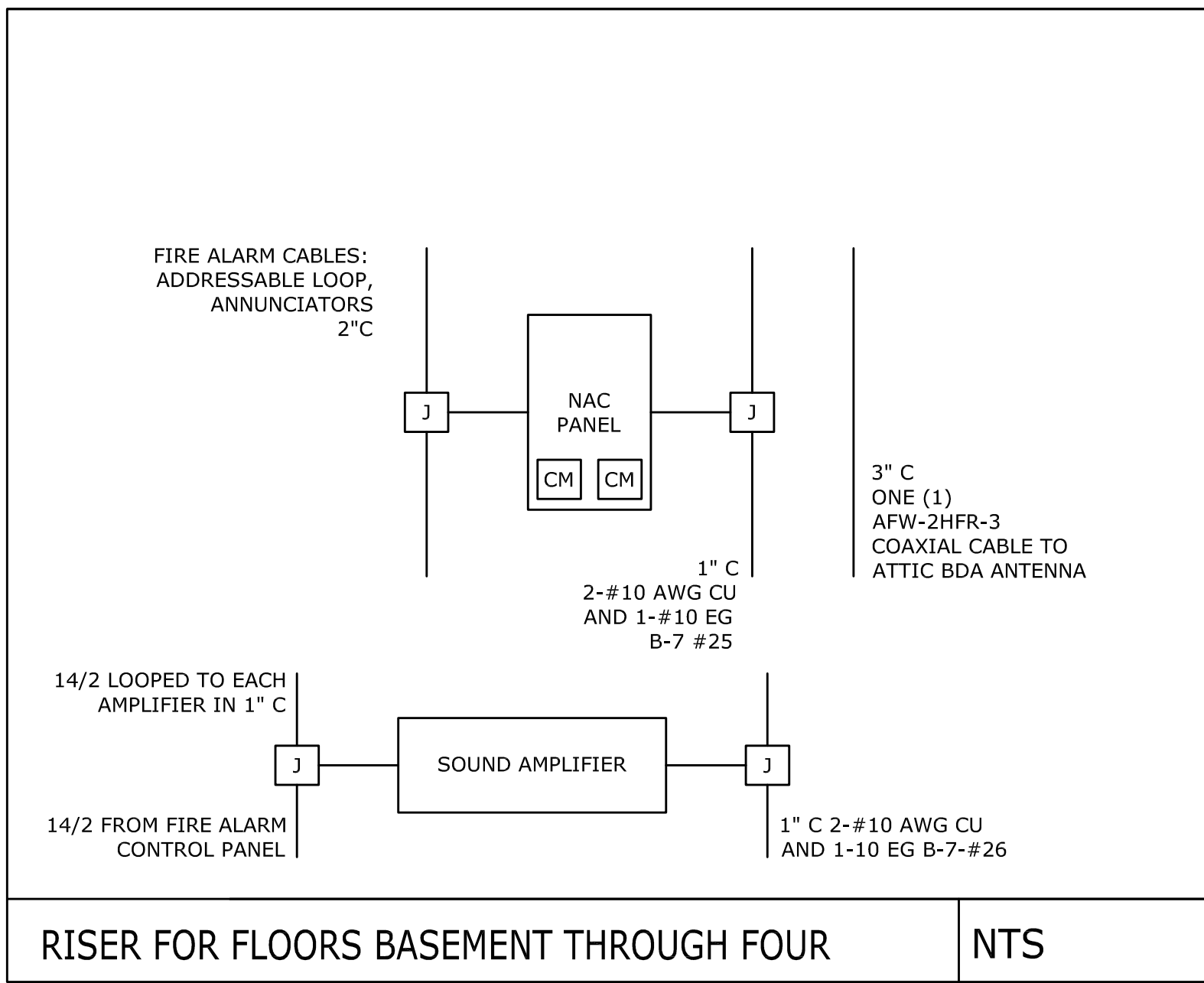
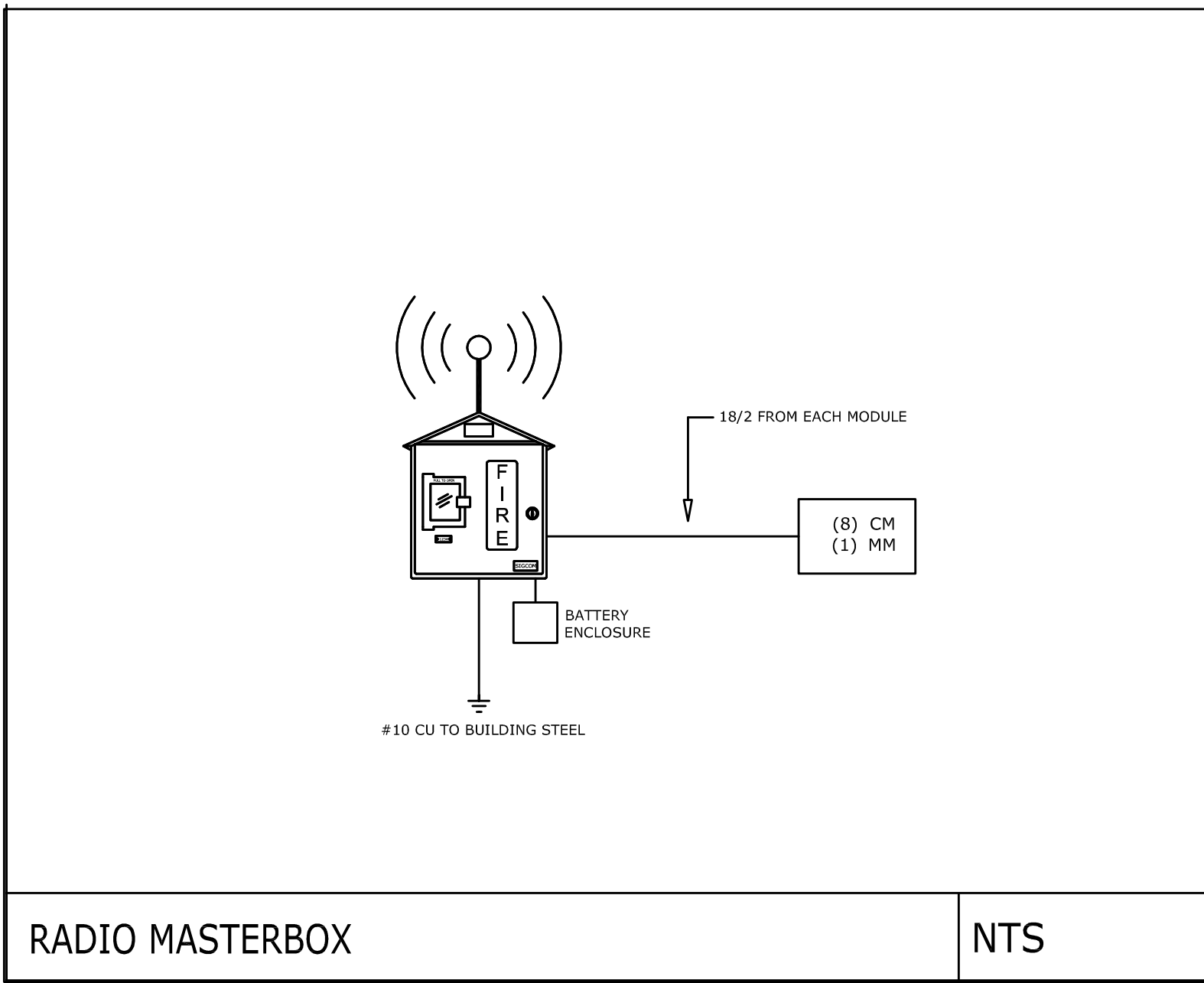
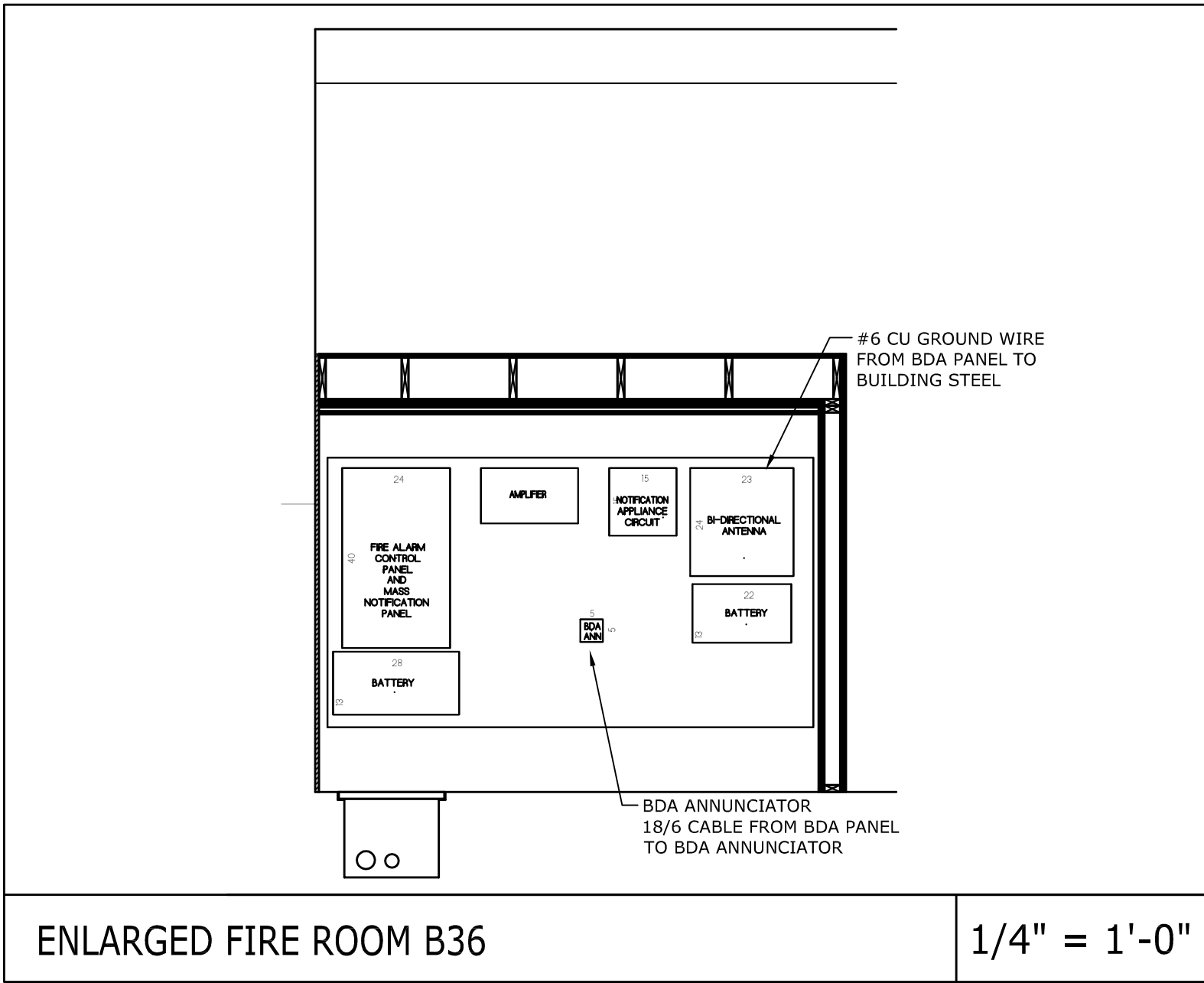
DEMOLITION LEGEND	
	- HEAT DETECTOR
	- SMOKE DETECTOR
	- PULL STATION
	- COMBINATION AUDIOVISUAL APPLIANCE
	- VISUAL APPLIANCE
	- KNOX BOX
	- EMERGENCY BATTERY UNIT
	- EXISTING DEVICES/EQUIPMENT TO BE REMOVED TOGETHER WITH ASSOCIATED WIRING, CONDUIT, ETC. UNLESS NOTED OTHERWISE.
NOTES FOR DEMOLITION:	
1. MAKE SAFE, DISCONNECT AND REMOVE EXISTING DEVICES, OUTLETS AND EQUIPMENT TO BE REMOVED OR RELOCATED TOGETHER WITH ASSOCIATED WIRING, CONDUIT, SURFACE RACEWAY, ETC. AND CIRCUIT PULLED BACK TO NEXT ACTIVE OUTLET/BACK TO SOURCE, UNLESS NOTED OTHERWISE.	
2. FOR ALL EXISTING DEVICES AND EQUIPMENT BEING RE-INSTALLED IN NEW CEILING, RECONNECT TO EXISTING POWER SOURCE, UNLESS NOTED OTHERWISE.	
3. PROVIDE BLANK FACEPLATES FOR ALL EXISTING DEVICES AND OUTLETS BEING REMOVED, FOR BOXES THAT ARE TO REMAIN.	
4. EXISTING ELECTRICAL SERVICE WITHIN THE AREA BEING RENOVATED: MAKE SAFE, DISCONNECT, AND REMOVE SERVICE FEEDERS TO LOCAL PANELBOARDS SLATED FOR DEMOLITION, AND ASSOCIATED BRANCH WIRING AND HARDWARE IDENTIFIED FOR DEMOLITION. OBSOLETE CABLES SHALL BE REMOVED BACK TO THE SOURCE AND REMOVED FROM THE SPACE ABOVE THE CEILING AND SPACE BELOW THE RAISED FLOOR. NO WORK SHALL BEGIN WITHOUT PROPER PERMITS AND AUTHORIZATIONS. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST (2) WEEKS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM.	
5. EXISTING ELECTRICAL PANELS IN ROOM OUTSIDE SCOPE OF WORK THAT SERVE SPACE BEING RENOVATED: THERMAL IMAGES OF THE EXISTING DISTRIBUTION PANELS SHALL BE TAKEN TO IDENTIFY RESISTIVE CONNECTIONS AND/OR OVERLOADED CIRCUITS PRIOR TO RENOVATION.	
6. TRACE ALL EXISTING CIRCUITS IN THE SCOPE OF WORK AND UPDATE THE PANEL CIRCUIT DIRECTORY. MARK CIRCUIT BREAKERS AS SPARE FOR CIRCUITS NOT BEING USED.	

ELECTRICAL DEMOLITION NOTES	
1. EXISTING CONDITIONS WERE OBTAINED FROM DRAWINGS AND DATA PROVIDED BY THE OWNER AND A/E FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO START OF CONSTRUCTION.	18. REMOVE EXPOSED ABANDONED CONDUIT INCLUDING ABANDONED CONDUIT, CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
2. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE AND EXAMINE THE AREA OF WORK SO AS TO SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF WORK.	19. REMOVE EXPOSED ABANDONED CONDUIT INCLUDING ABANDONED CONDUIT, CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
3. THE ELECTRICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING ELECTRICAL SERVICES AND CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES FOUND.	20. PROVIDE MOUNTING PARTS AND ACCESSORIES FOR ALL DEVICES, FIXTURES, EQUIPMENT, RACEWAY, ETC THAT ARE TO BE RELOCATED.
4. THE ELECTRICAL SUBCONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS AND SHALL CARRY IN THE BID ALL DEVICES AND EQUIPMENT WHICH ARE TO BE DISCONNECTED AND REMOVED OR RELOCATED ON THESE DRAWINGS. SUBMISSION OF BID IS CONSIDERED EVIDENCE THAT THIS CONTRACTOR HAS VERIFIED ALL EQUIPMENT THAT NEEDS TO BE DISCONNECTED, REMOVED OR RELOCATED.	21. VERIFY ABANDONED WIRING AND EQUIPMENT SERVE ONLY THE AREAS BEING RENOVATED.
5. THE ELECTRICAL SUBCONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH OWNER ALL DEVICES THAT ARE BEING REMOVED AND THAT ARE TO REMAIN PRIOR TO COMMENCING WORK.	22. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVERS FOR ABANDONED BOXES WHICH ARE NOT REMOVED. COORDINATE FINISH AND COLOR WITH THE ARCHITECT.
6. THE ELECTRICAL SUBCONTRACTOR SHALL ASSUME THAT ALL WALLS, FLOORS, AND CEILINGS THAT ARE SCHEDULED TO BE DEMOLISHED CONTAIN ELECTRICAL DEVICES, CONDUIT AND ASSOCIATED WIRING TO BE REMOVED. THE ELECTRICAL SUBCONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REMOVING ALL ELECTRICAL DEVICES, CONDUIT AND ASSOCIATED WIRING IN WALLS, FLOORS AND CEILINGS THAT ARE SCHEDULED TO BE DEMOLISHED. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED AFTER THE AWARD OF THE ELECTRICAL CONTRACT.	23. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT BACK TO THE SOURCE OF SUPPLY.
7. THE CONTRACTOR SHALL THOROUGHLY REVIEW THESE ELECTRICAL CONSTRUCTION DOCUMENTS PRIOR TO PREPARING A BID FOR THE ELECTRICAL WORK SHOWN. THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL SUBCONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH ARCHITECT ALL DEVICES THAT ARE BEING REMOVED AND THAT ARE TO REMAIN.	24. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS AND OTHER ACCESSORIES.
8. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS. THE ELECTRICAL SUBCONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN PANELBOARDS IDENTIFIED FOR REMOVAL SHALL BE TRACED AND LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.	25. WHEN A CIRCUIT IS INTERRUPTED BY REMOVAL OF A DEVICE OR FIXTURE FROM THAT CIRCUIT, INSTALL WIRE, CONDUIT, AND ACCESSORIES TO RESTORE SERVICE TO REMAINING DEVICES AND FIXTURES ON THAT CIRCUIT.
9. THE ELECTRICAL SUBCONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). TEMPORARILY SUPPORTED ITEMS SHALL BE PERMANENTLY SUPPORTED AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.	26. WHERE EQUIPMENT/DEVICES ARE REMOVED FROM EXISTING TO REMAIN PANELBOARDS, THE EXISTING CIRCUIT BREAKER SERVING THE EQUIPMENT/ DEVICES SHALL REMAIN AS SPARE UNLESS NOTED OTHERWISE. PROVIDE NEW TYPED, UPDATED DIRECTORIES IN EXISTING TO REMAIN PANELS TO REFLECT CHANGES BY THIS RENOVATION AND EXISTING CONDITIONS.
10. REPORT DISCREPANCIES TO THE ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.	27. WHERE REMOVAL OF EXISTING FIRE ALARM, COMMUNICATIONS, ELECTRICAL FIXTURE, DEVICE OR EQUIPMENT WILL RESULT IN OUTAGES IN AREA NOT TO BE DEMOLISHED, THIS CONTRACTOR SHALL IMMEDIATELY RECONNECT THAT CIRCUIT OR RE-ESTABLISH SERVICE IN THE REMAINING PORTION OF THE CIRCUIT.
11. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL. REMOVE FEEDERS TOGETHER WITH ASSOCIATED CONDUIT, BOXES, ETC. BACK TO THE SOURCE. REFER TO ARCHITECTURAL DRAWINGS.	28. USE SUITABLE METHODS TO LIMIT AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN AIR TO THE LOWEST LEVEL OF AIR POLLUTION PRACTICAL. PROVIDE BARRICADES AND OBSERVE SAFETY REGULATIONS.
12. SCHEDULE WITH OWNER WORK TO BE PERFORMED IN EXISTING FACILITIES. PERFORM WORK AT TIMES AND UNDER CONDITIONS APPROVED BY THE OWNER.	29. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS.
13. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.	30. WHERE PRESENT WORK, ADJACENT CONSTRUCTION AND FINISHES ARE DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, DEVICES OR APPARATUS, THE SAME SHALL BE REPAIRED OR PATCHED TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR AND ADDITIONAL WORK BY GENERAL CONTRACTOR.
14. MAKE SAFE, DISCONNECT AND REMOVE ELECTRICAL DEVICES, WIRING, CONDUIT, ETC. ASSOCIATED WITH MECHANICAL EQUIPMENT BEING REMOVED. COORDINATE WITH HVAC, PLUMBING AND FIRE ALARM DRAWINGS. REMOVE CONDUCTORS BACK TO THE SOURCE, UNLESS NOTED OTHERWISE. MARK EXISTING UNUSED CIRCUIT BREAKERS AS SPARE.	31. SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FIXTURES, OR ANY OTHER EQUIPMENT OR APPARATUS, SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.
15. REMOVE ELECTRICAL FIXTURES, DEVICES AND EQUIPMENT NOT REQUIRED TO REMAIN IN SERVICE. RECONNECT EXISTING CIRCUITS TO OTHER SOURCES OF SUPPLY. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.	32. CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS IN PANELBOARDS. PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. MARK UNUSED EXISTING BREAKERS/FUSES AS SPARE. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.
	33. ANY EXISTING EQUIPMENT THAT IS REMOVED SHALL BE INVENTORIED AND TURNED OVER TO THE OWNER PRIOR TO FINAL INSPECTION. UPON INSPECTION BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF ANY EQUIPMENT THAT ARE DEEMED USELESS TO THE OWNER, DISPOSE LAMPS ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.
	34. EXISTING CONDUIT MAY BE REUSED IF IT IS IN GOOD CONDITION WHEN REMOVED. ALL EXISTING CONDUIT NOT INTENDED TO BE REUSED SHALL BE REMOVED IF POSSIBLE, WHERE IT IS NOT POSSIBLE TO REMOVE CONDUIT (I.E., EMBEDDED IN CONCRETE FLOOR, ETC.) AND WIRING BACK TO THE SOURCE, CUT WIRING AND CONDUIT FLUSH TO THE WALLS, TAG CABLES PER THE NEC, AND ABANDON IN PLACE, WHERE POSSIBLE REUSE BOXES WHERE EXISTING ELECTRICAL DEVICES ARE SHOWN TO BE REMOVED AND REPLACED WITH NEW.

FIRE ALARM	
	- SMOKE DETECTOR, CEILING MOUNTED
	- SMOKE DETECTOR, ELEVATOR RECALL
	- HEAT DETECTOR, FIXED "135" - DENOTES TEMPERATURE
	- PULL STATION
	- REMOTE ALARM INDICATOR, PROVIDE PERMANENTLY ATTACHED PLACARD TO INDICATE BOTH THE FUNCTION AND ANY DEVICE OR EQUIPMENT ASSOCIATED PER NFPA REQUIREMENTS. INDICATORS SHOULD BE WALL MOUNTED TO MAKE ATTACHING PLACARD AT THE INDICATOR EASIER. SUBMIT THE PLACARD TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
	- VISUAL APPLIANCE WITH MASS NOTIFICATION, WALL MOUNTED "110cd" - DENOTES CANDELA RATING
	- COMBINATION AUDIOVISUAL APPLIANCE WITH MASS NOTIFICATION, WALL MOUNTED "110cd" - DENOTES CANDELA RATING
	- KNOX BOX
	- EXTERIOR BEACON 150,000 CANDLE POWER. COORDINATE EXACT LOCATION WITH A/E
	- FIRE ALARM CONTROL PANEL
	- DAS ANTENNA
	- FIRE ALARM ANNUNCIATOR. FIRE ALARM ANNUNCIATOR TEXT SCREEN TO BE SIXTY-FOUR INCHES (64") ABOVE FINISHED FLOOR PER WORCESTER FIRE PREVENTION DESIGN STANDARDS.
	- BI-DIRECTIONAL ANTENNA PANEL
	- RADIO MASTER BOX
	- EMERGENCY BATTERY UNIT SURE-LITES SEL-50-50
NOTES FOR FIRE ALARM DEVICES:	
1. COORDINATE EXACT LOCATION OF ALL SPRINKLER SYSTEM ASSOCIATED DEVICES WITH THE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.	
2. COORDINATE LOCATION OF KNOX BOX, EXTERIOR BEACON AND FIRE ALARM BELL WITH A/E PRIOR TO ROUGH-IN.	
3. COORDINATE WITH ARCHITECT THE LOCATION OF PULL STATIONS AND ANNUNCIATOR PANEL IN AND AROUND VESTIBULES FOR COORDINATION.	
4. ALL EXPOSED WIRING SHALL BE INSTALLED IN CONDUIT.	

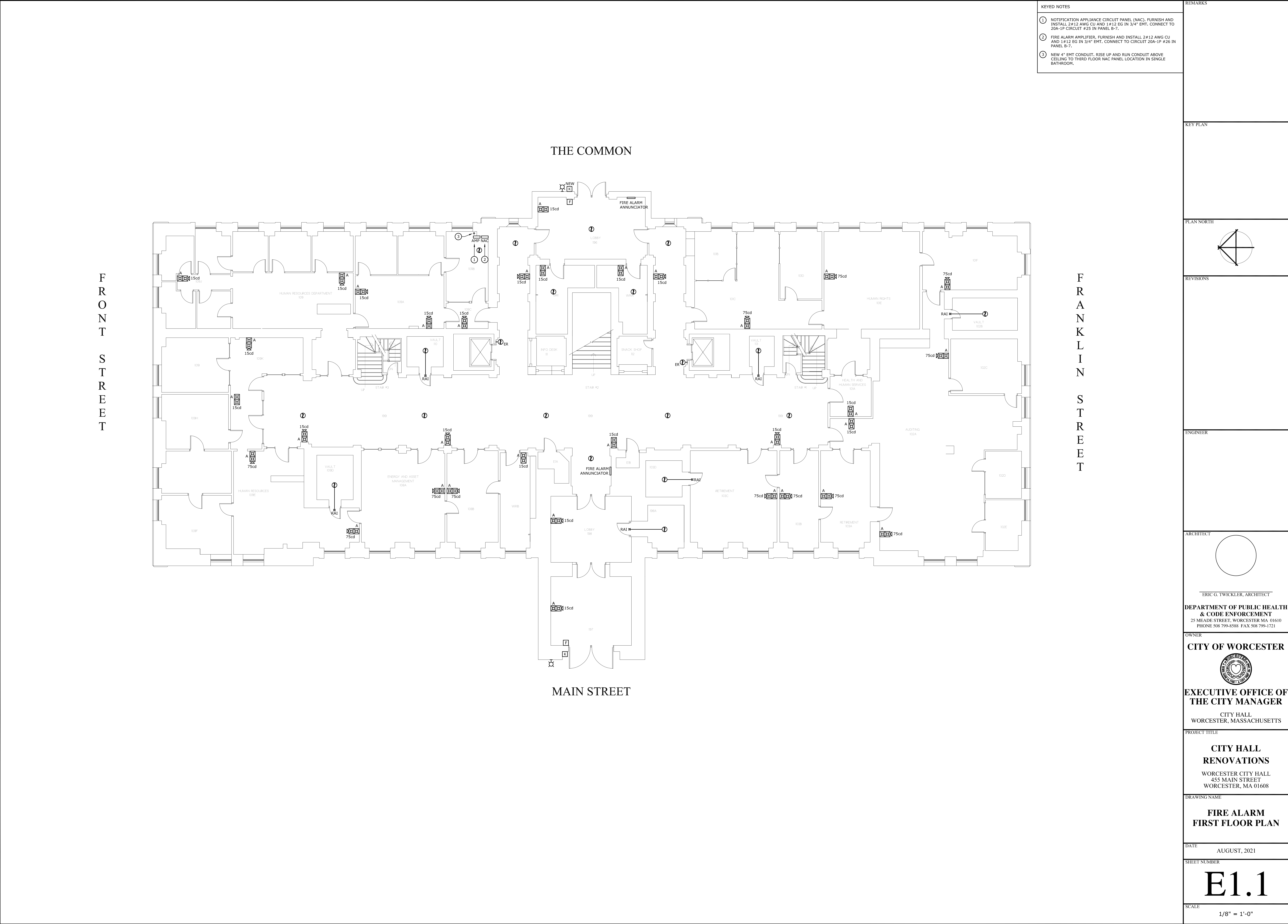
FIRE ALARM NOTES	
1. ALL WORK SHALL BE INSTALLED IN FULL ACCORDANCE WITH LOCAL, STATE & FEDERAL CODES. STATE AND LOCAL AUTHORITIES IRRESPECTIVE OF THE FIRE ALARM DEVICES SHOWN ON THE DRAWINGS. FILE ALL PLANS, OBTAIN ALL PERMITS, PAY ALL FEES, SCHEDULE ALL INSPECTIONS, MAKE ALL TESTS AND OBTAIN ALL APPROVALS REQUIRED. THE FIRE ALARM WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ADOPTED EDITIONS OF NFPA-72, NATIONAL ELECTRIC CODE AND LOCAL AUTHORITIES HAVING JURISDICTION. ALL COMPONENTS SHALL BE UL LISTED.	
2. THE FIRE ALARM RISER IS FOR REFERENCES ONLY. THE ELECTRICAL SUBCONTRACTOR SHALL USE THE FIRE ALARM RISER PROVIDED BY THE MANUFACTURER.	
3. THE ELECTRICAL SUBCONTRACTOR SHALL DETERMINE DEVICE COUNTS FROM THE FIRE ALARM DRAWINGS.	
4. ALL VISUAL DEVICES SHALL BE SYNCHRONIZED AS PER NFPA 72.	
5. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3'-0" OF A SUPPLY DIFFUSER.	
6. ALL EQUIPMENT AND DEVICES LOCATED IN THE SHOWER ROOM, COLD ROOM, ICE KINK, GARAGES, BUILDING EXTERIOR AND SIMILAR AREAS SHALL BE OF WEATHER PROOF TYPE.	
7. CIRCUIT BREAKER FOR FIRE ALARM CONTROL UNIT SHALL HAVE RED MARKING WITH A CIRCUIT BREAKER LOCK LISTED FOR USE WITH THE CIRCUIT BREAKER.	
8. THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.	
9. THE ROOM CONTAINING THE FIRE ALARM CONTROL UNIT MUST BE PROVIDED WITH A SIGN IDENTIFYING THE FIRE PROTECTION EQUIPMENT AND EQUIPMENT LOCATION.	
10. THE ROOM CONTAINING THE BDA SHALL BE PROVIDED WITH A SIGN IDENTIFYING THE FIRE PROTECTION EQUIPMENT AND EQUIPMENT LOCATION.	
11. PROVIDE CONDUIT, WIRING AND FIRE ALARM SYSTEM CONNECTION TO HVAC DUCT MOUNTED SMOKE DETECTORS. DUCT SMOKE DETECTORS SHALL BE PROVIDED WITH A REMOTE TEST SWITCH IN A LOCATION ACCEPTABLE TO THE FIRE DEPARTMENT. COORDINATE EXACT LOCATION OF REMOTE TEST SWITCH WITH THE FIRE DEPARTMENT PRIOR TO INSTALLATION.	
12. PROVIDE DUCT SMOKE ALARM INDICATOR IN THE CEILING OR WALL BELOW THE DETECTOR.	
13. PROVIDE CONTROL AND RELAY MODULES AND INTERCONNECT ELEVATOR DAMPER WITH FIRE ALARM CONTROL PANEL. THE ELEVATOR DAMPER SHALL OPEN UPON ACTIVATION OF THE FIRE ALARM CONTROL PANEL, POWER FAILURE OR TEMPERATURE RISE IN THE SHAFT, SEE MECHANICAL PLANS.	
14. THE WHITE BEACON, BLUE BEACON AND RED BEACON ADJACENT TO THE MAIN ENTRANCE SHALL BE PROVIDED WITH SIGNAGE TO INDICATE THE PURPOSE OF EACH VISUAL SIGNALING DEVICE IN ORDER TO REDUCE CONFUSION WITH THE FIRE ALARM AND/OR CARBON MONOXIDE SYSTEM.	
15. DUE TO THE HISTORICAL STATUS OF CITY HALL, ALL FASTENING HARDWARE AND STAND-OFF DETAILS IN FINISHED AREAS TO BE APPROVED BY BOTH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.	

WIRING DEVICES	
GENERAL NOTE: COORDINATE EXACT LOCATION OF ALL WIRING DEVICES WITH ARCHITECTURAL ELEVATION PLANS PRIOR TO ROUGH-IN	
	- DUPLEX RECEPTACLE, WALL MOUNTED
	- SINGLE POLE SWITCH



LIGHTING FIXTURE SCHEDULE	
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SYMBOL	DESCRIPTION
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REMARKS
KEY PLAN
PLAN NORTH
REVISIONS
ENGINEER
ARCHITECT
ERIC G. TWICKLER, ARCHITECT
DEPARTMENT OF PUBLIC HEALTH & CODE ENFORCEMENT 25 MEADE STREET, WORCESTER MA 01610 PHONE 508 799-8588 FAX 508 799-1721
OWNER
CITY OF WORCESTER
EXECUTIVE OFFICE OF THE CITY MANAGER
CITY HALL WORCESTER, MASSACHUSETTS
PROJECT TITLE
CITY HALL RENOVATIONS
WORCESTER CITY HALL 455 MAIN STREET WORCESTER, MA 01608
DRAWING NAME
ELECTRICAL LEGEND AND NOTES
DATE
AUGUST, 2021
SHEET NUMBER
E0.1
SCALE
N.T.S



- ① NOTIFICATION APPLIANCE CIRCUIT PANEL (NAC), FURNISH AND INSTALL 2#12 AWG CU AND 1#12 EG IN 3/4" EMT, CONNECT TO 20A-1P CIRCUIT #25 IN PANEL B-7.
- ② FIRE ALARM AMPLIFIER, FURNISH AND INSTALL 2#12 AWG CU AND 1#12 EG IN 3/4" EMT, CONNECT TO CIRCUIT 20A-1P #26 IN PANEL B-7.
- ③ NEW 4" EMT CONDUIT, RISE UP AND RUN CONDUIT ABOVE CEILING TO THIRD FLOOR NAC PANEL LOCATION IN SINGLE BATHROOM.

KEY PLAN

ENGINEER

**DEPARTMENT OF PUBLIC HEALTH
& CODE ENFORCEMENT**
25 MEADE STREET, WORCESTER MA 01610
PHONE 508 799-8588 FAX 508 799-1721

CITY OF WORCESTER



CITY HALL
WORCESTER, MASSACHUSETTS

WORCESTER CITY HALL
455 MAIN STREET
WORCESTER, MA 01608

**FIRE ALARM
SECOND FLOOR PLAN**

SHEET NUMBER

E1.2

$$1/8'' = 1'-0''$$

FRONT STREET

FRANKLIN STREET

MAIN STREET



FRANKLIN STREET

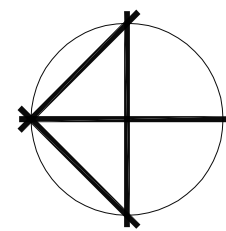
KEYED NOTES

- ① NOTIFICATION APPLIANCE CIRCUIT PANEL (NAC). FURNISH AND INSTALL 2#12 AWG CU AND 1#12 EG IN 3/4" EMT. CONNECT TO 20A-1P CIRCUIT #25 IN PANEL B-7.
- ② FIRE ALARM AMPLIFIER. FURNISH AND INSTALL 2#12 AWG CU AND 1#12 EG IN 3/4" EMT. CONNECT TO CIRCUIT 20A-1P #26 IN PANEL B-7.

REMARKS

KEY PLAN

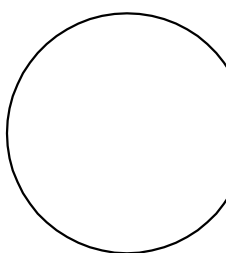
PLAN NORTH



REVISION

ENGINEER

ARCHITEC



ERIC G. TWICKLER, ARCHITECT

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CITY OF WORCESTER



**EXECUTIVE OFFICE OF
THE CITY MANAGER**

CITY HALL
WORCESTER, MASSACHUSETTS

PROJECT TITLE

CITY HALL RENOVATIONS

WORCESTER CITY HALL
455 MAIN STREET
WORCESTER, MA 01608

DRAWING NAME

**FIRE ALARM
FOURTH FLOOR
PLAN**

DATE _____

AUGUST, 2021

SHEET NUMBER

E1.4

SCAL

$$1/8'' = 1'-0''$$

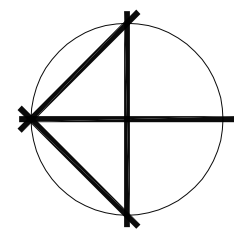
FRONT STREET

FRANKLIN STREET



- ## GENERAL NOTES
1. CIRCUIT BREAKERS FOR FIRE ALARM EQUIPMENT TO HAVE RED IDENTIFICATION AND BE LABELED "FIRE ALARM CIRCUIT" PER NEC 760.41(B).
- ## KEYED NOTES
- ① HEAT DETECTOR TO BE MOUNTED TWELVE INCHES (12") DOWN FROM ROOF PEAK. TYPICAL FOR SEVEN (7).
 - ② FURNISH AND INSTALL EIGHT (8) CONTROL MODULES AND (1) MONITOR MODULE WITH 1/82 FROM EACH TO RADIO MASTER BOX.
 - ③ RADIO MASTER BOX, FURNISH AND INSTALL 2#12 AWG CU AND 1-#12 EG IN 3/4" C. TO PANEL PPA-A2-CIRCUIT #20.
 - ④ APPROXIMATE LOCATION OF 3" CONDUIT RISER WITH BDA COAXIAL CABLE, 3" CONDUIT WITH ONE (1) AMERICAN FIRE WIRE #1W-2HRS/3 COAXIAL CABLE DOWN TO BDA PANEL IN BASEMENT FIRE ALARM ROOM B-36.
 - ⑤ APPROXIMATE LOCATION OF 2" CONDUIT RISER WITH ADDRESSABLE LOOP.
 - ⑥ APPROXIMATE LOCATION OF (2) 1-1/4" CONDUIT RISER FOR NOTIFICATION CIRCUITS FROM THE 4TH FLOOR.

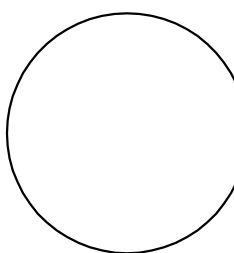
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455 MAIN STREET
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DRAWING NAME

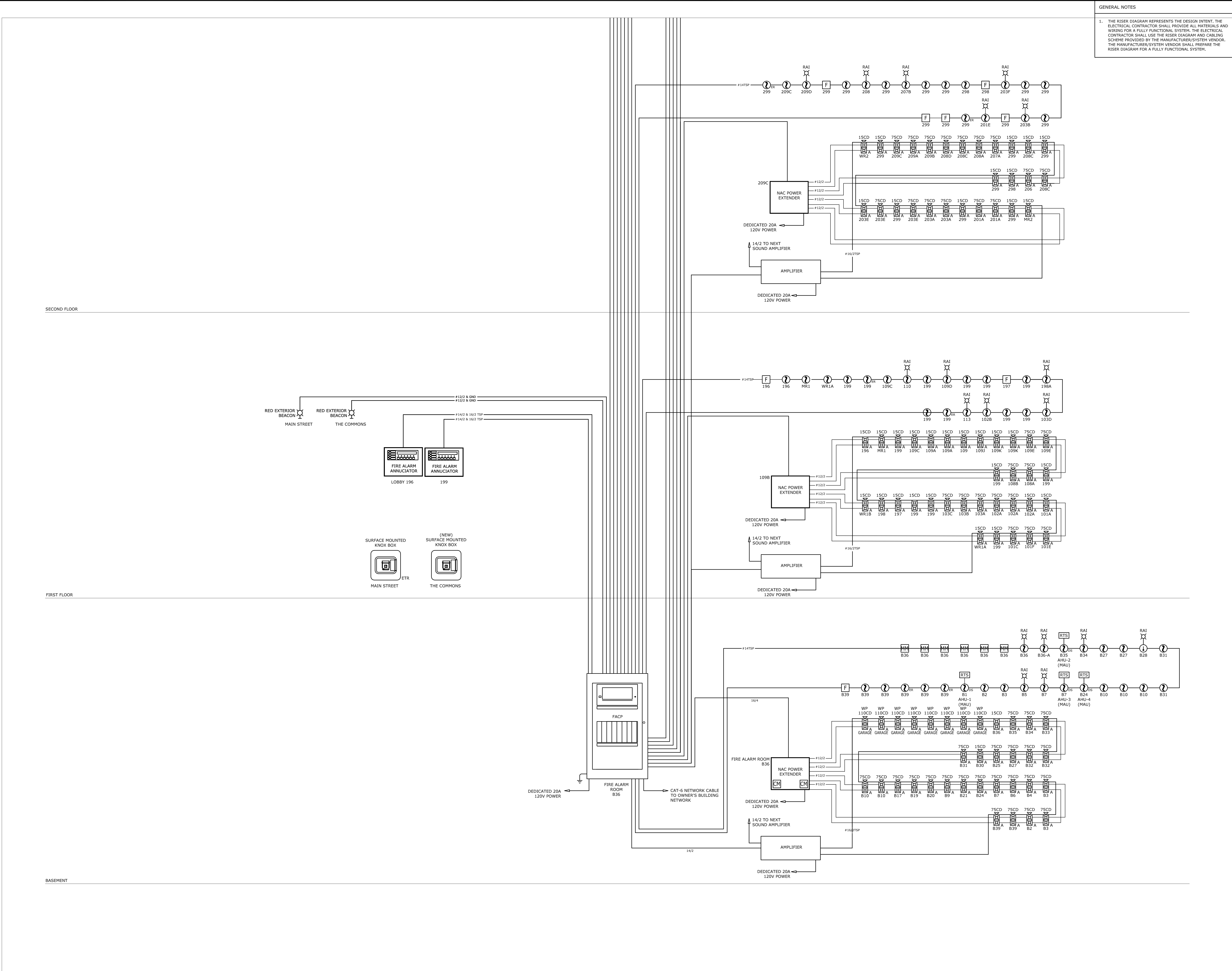
FIRE ALARM ATTIC PLAN

DATE AUGUST, 2021

SHEET NUMBER

E1.5

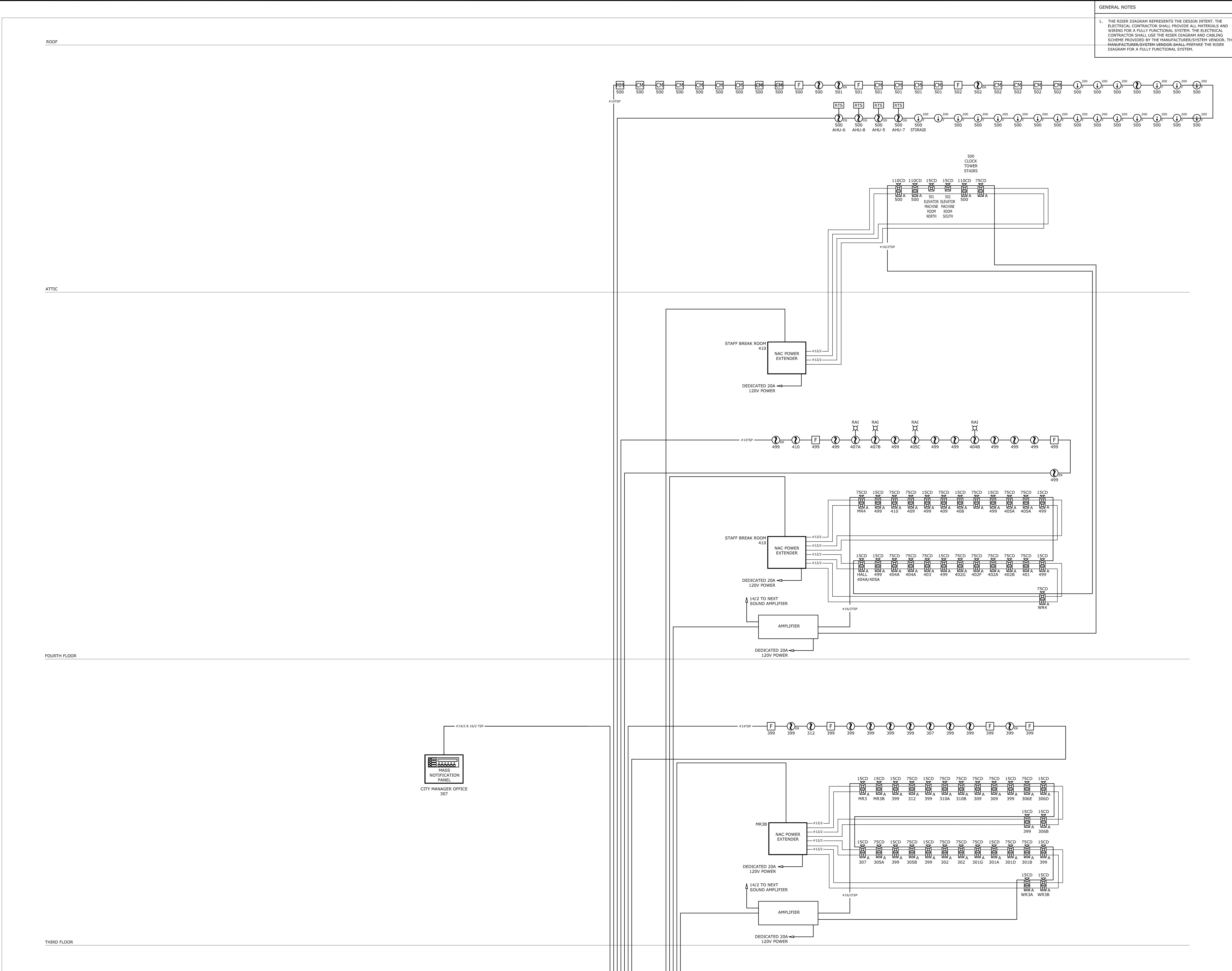
SCALE $1/8" = 1'-0"$



GENERAL NOTES

1. THE RISER DIAGRAM REPRESENTS THE DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND WIRING FOR A FULLY FUNCTIONAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL USE THE RISER DIAGRAM AND CABLING SCHEME PROVIDED BY THE MANUFACTURER/SYSTEM VENDOR. THE MANUFACTURER/SYSTEM VENDOR SHALL PREPARE THE RISER DIAGRAM FOR A FULLY FUNCTIONAL SYSTEM.

REMARKS
KEY PLAN
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CITY HALL WORCESTER, MASSACHUSETTS
PROJECT TITLE
CITY HALL RENOVATIONS
WORCESTER CITY HALL 455 MAIN STREET WORCESTER, MA 01608
DRAWING NAME
FIRE ALARM RISER
DATE
AUGUST, 2021
SHEET NUMBER
E2.0A
SCALE
N.T.S



GENERAL NOTES

1. THE RISER DIAGRAM REPRESENTS THE DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND WIRING FOR A FULLY FUNCTIONAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL USE THE RISER DIAGRAM AND CABLING SCHEME PROVIDED BY THE MANUFACTURER/SYSTEM VENDOR. THE MANUFACTURER/SYSTEM VENDOR SHALL PREPARE THE RISER DIAGRAM FOR A FULLY FUNCTIONAL SYSTEM.

REMARKS

KEY PLAN

PLAN NORTH

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CITY HALL
WORCESTER, MASSACHUSETTS

PROJECT TITLE

CITY HALL RENOVATIONS

WORCESTER CITY HALL
455 MAIN STREET
WORCESTER, MA 01608

DRAWING NAME

FIRE ALARM RISER

DATE

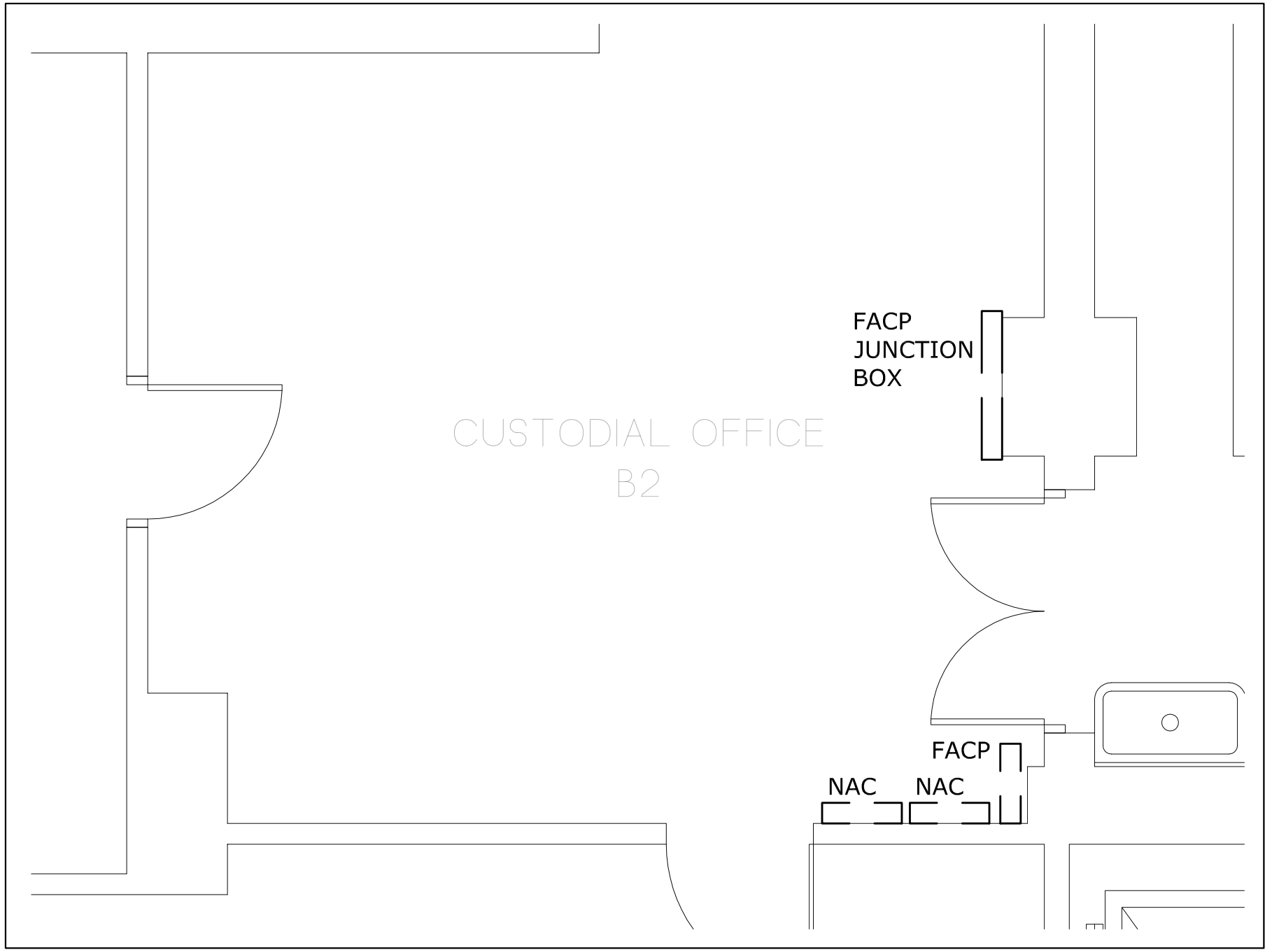
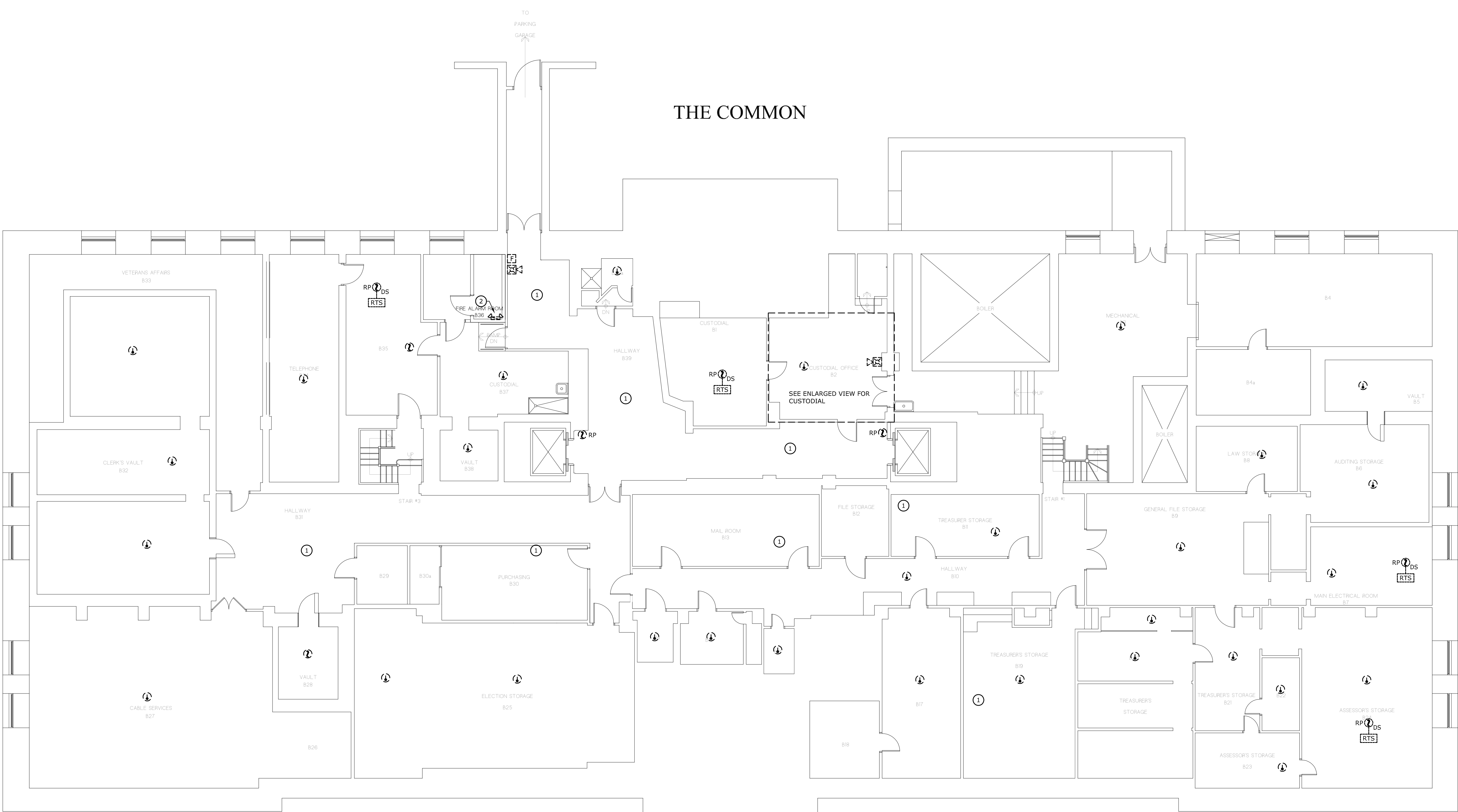
AUGUST, 2021

SHEET NUMBER

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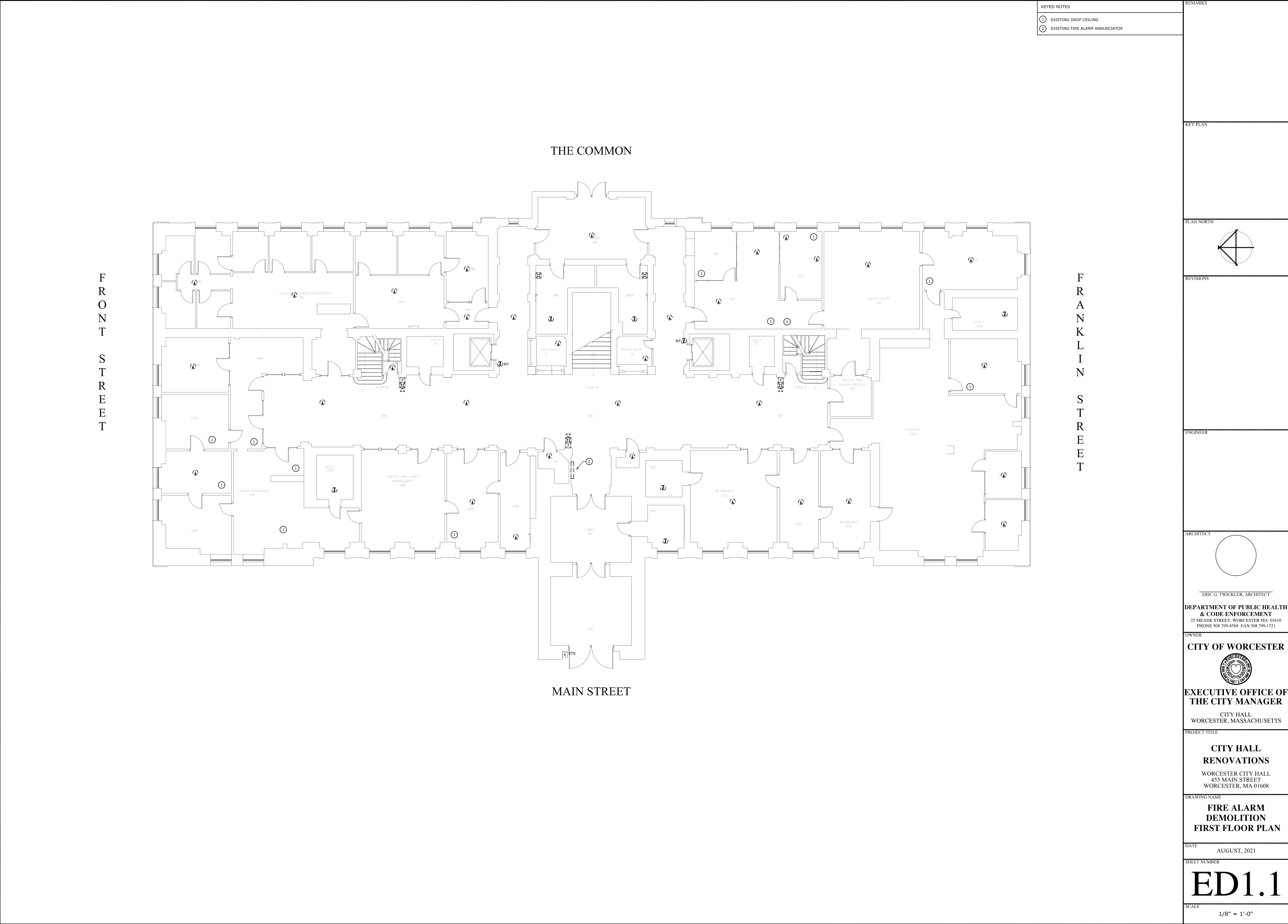
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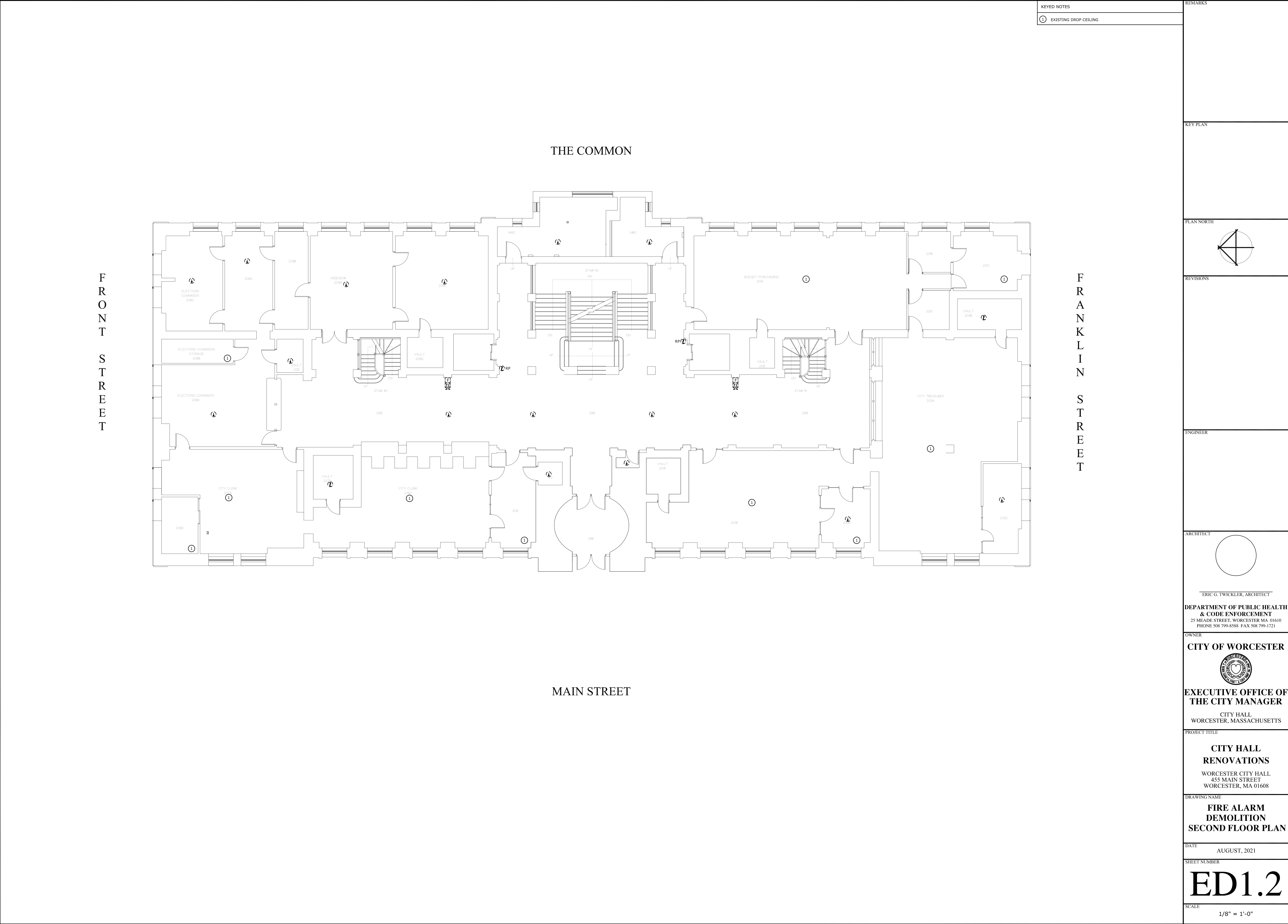
N.T.S



SCALE: 3/4" = 1'-0"

KEYED NOTES		REMARKS
①	EXISTING DROP CEILING.	
②	EXISTING EMERGENCY BATTERY UNIT. EXTEND CIRCUITRY AND RELOCATE TO THE NEW OUTSIDE WALL OF ROOM B-36.	
FRANKLIN STREET		KEY PLAN
		PLAN NORTH
		REVISIONS
		ENGINEER
		ARCHITECT
		OWNER
		PROJECT TITLE
		DRAWING NAME
		DATE
		SHEET NUMBER
		SCALE





KEYED NOTES		REMARKS
①	EXISTING DROP CEILING	
KEY PLAN		
PLAN NORTH		
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ENGINEER		
ARCHITECT		
OWNER		
PROJECT TITLE		
DRAWING NAME		
DATE		
SHEET NUMBER		
SCALE		

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WORCESTER, MASSACHUSETTS

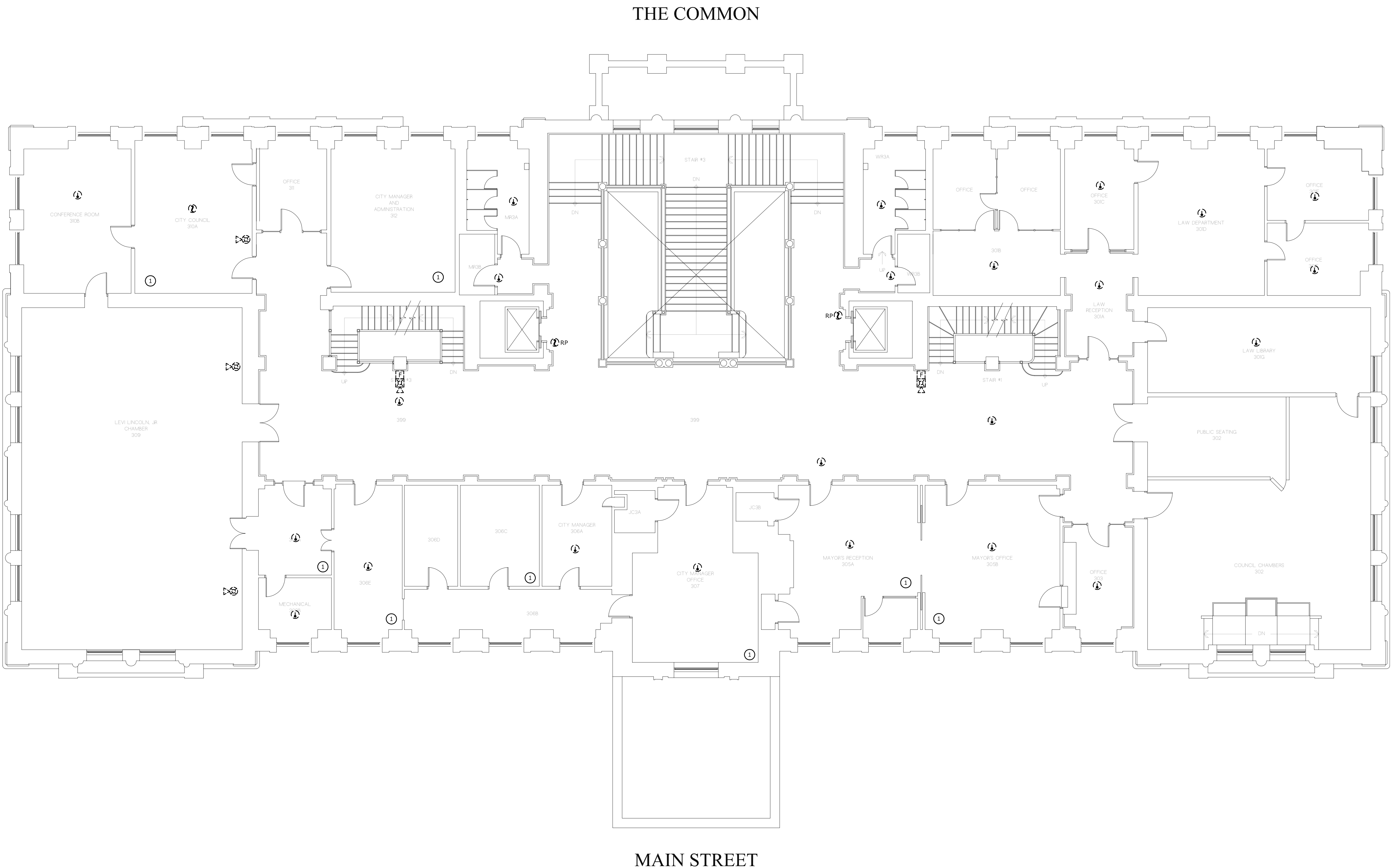
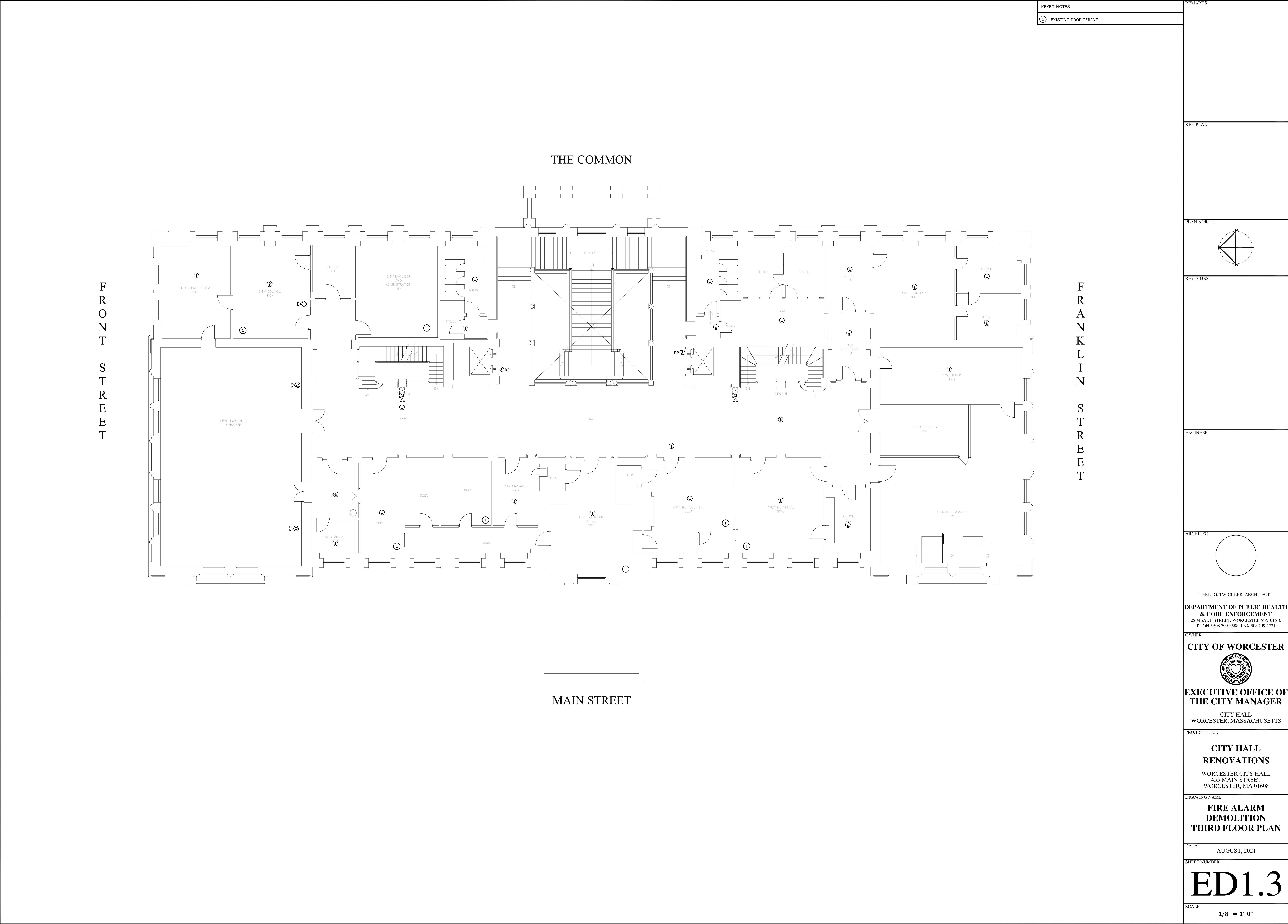
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RENOVATIONS
WORCESTER CITY HALL
455 MAIN STREET
WORCESTER, MA 01608

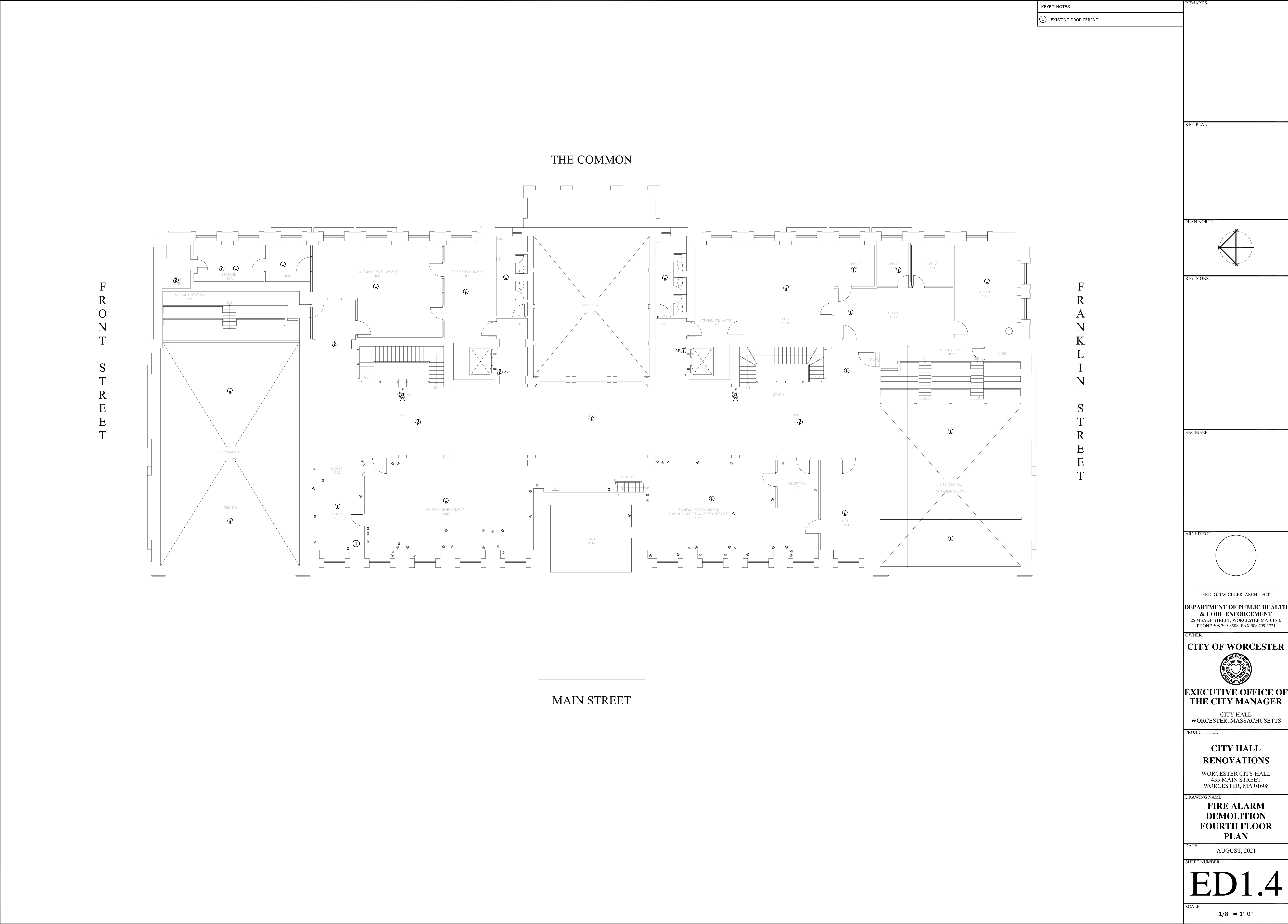
FIRE ALARM
DEMOLITION
SECOND FLOOR PLAN

AUGUST, 2021

ED1.2

1/8" = 1'-0"





KEYED NOTES
① EXISTING DROP CEILING

REMARKS
KEY PLAN
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CITY HALL WORCESTER, MASSACHUSETTS
PROJECT TITLE
CITY HALL RENOVATIONS WORCESTER CITY HALL 455 MAIN STREET WORCESTER, MA 01608
DRAWING NAME
FIRE ALARM DEMOLITION FOURTH FLOOR PLAN
DATE
AUGUST, 2021
SHEET NUMBER
ED1.4
SCALE
1/8" = 1'-0"

REMARKS

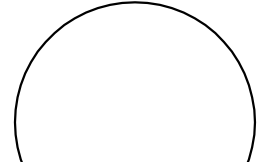
KEY PLAN

PLAN NORTH

[illegible]

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ARCHITECT




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WORCESTER CITY HALL
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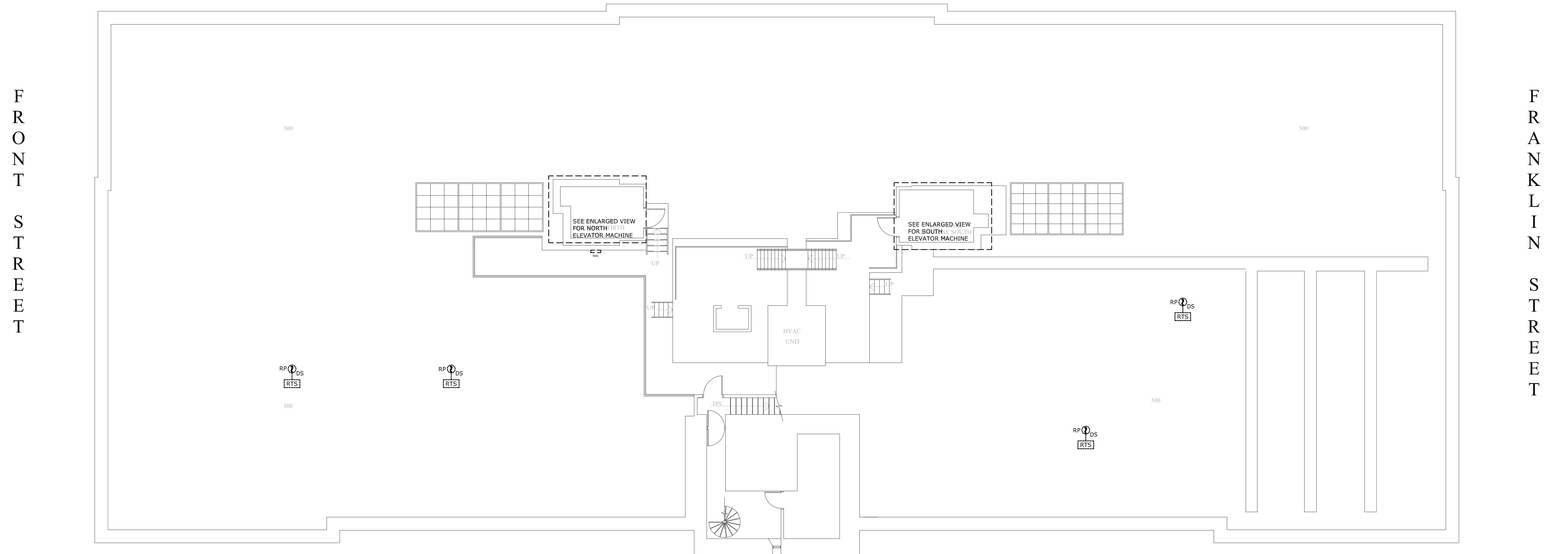
**FIRE ALARM
DEMOLITION
ATTIC PLAN**

DATE	AUGUST, 2021
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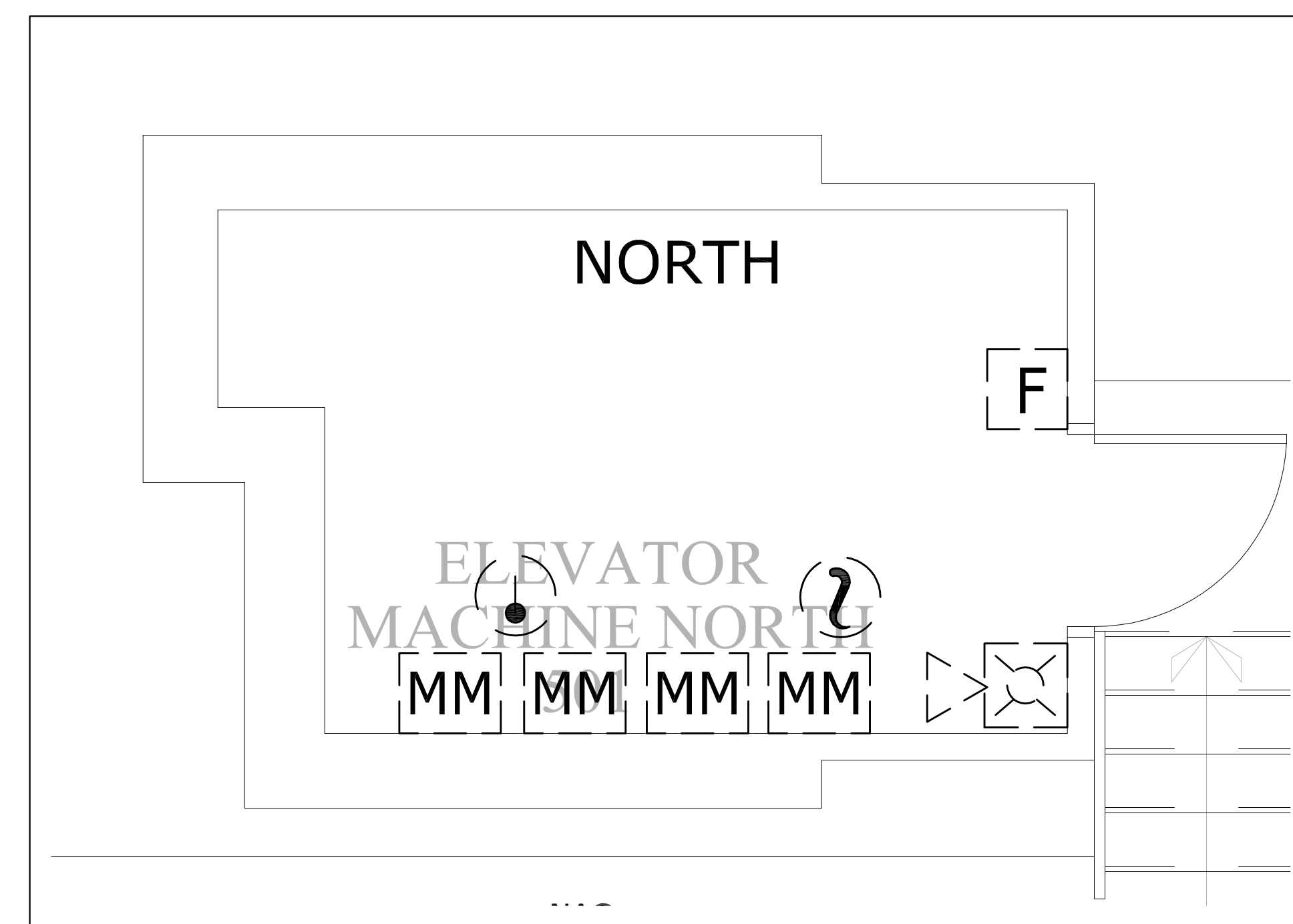
SHEET NUMBER

ED1.5

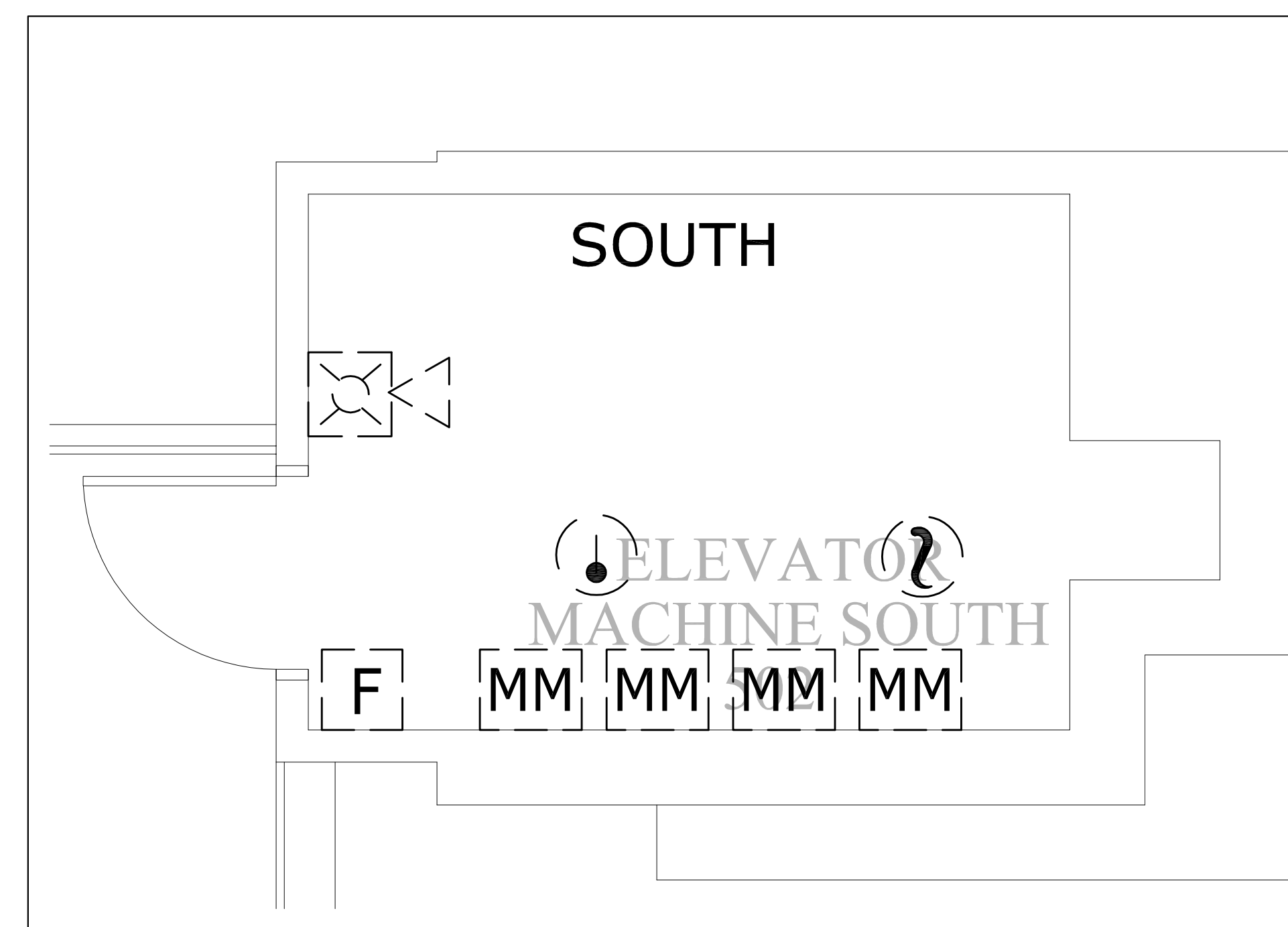
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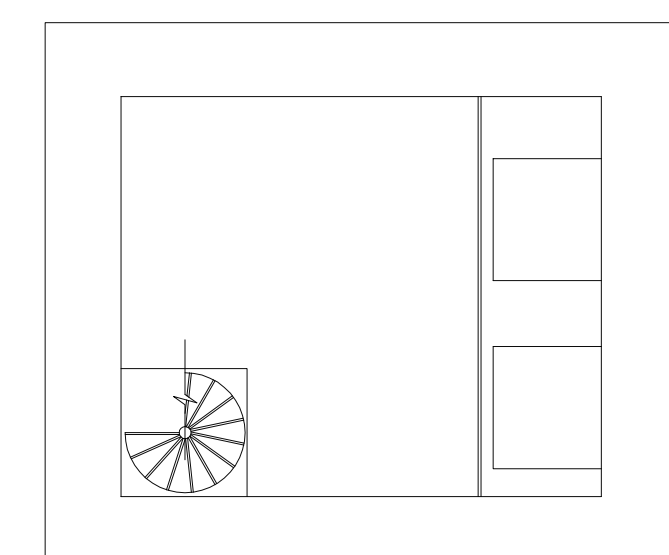
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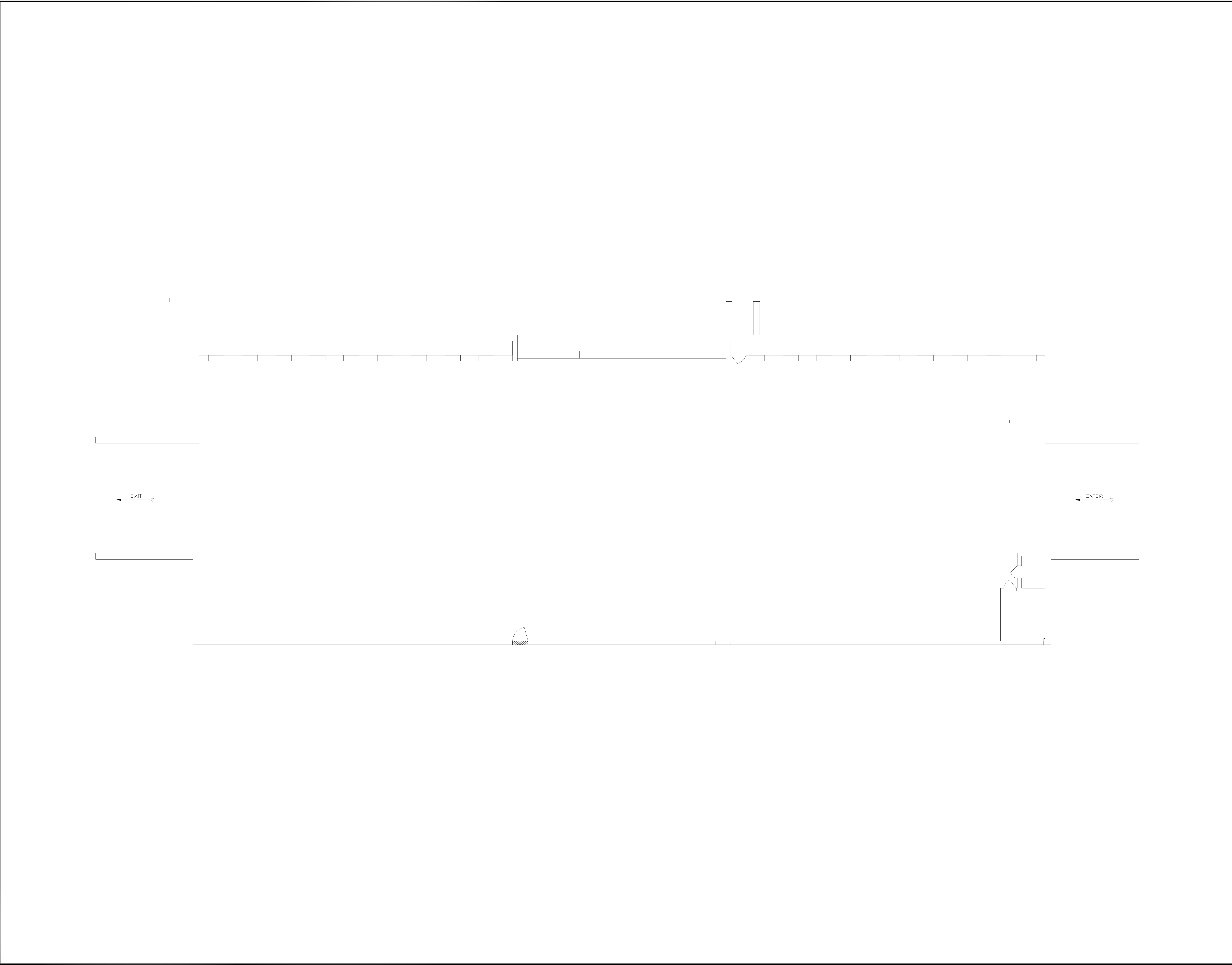


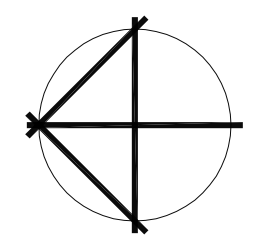
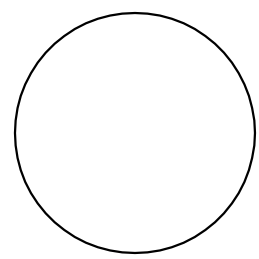

SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1'-0"





REMARKS
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PLAN NORTH 
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PROJECT TITLE CITY HALL RENOVATIONS WORCESTER CITY HALL 455 MAIN STREET WORCESTER, MA 01608
DRAWING NAME FIRE ALARM - EXISTING GARAGE PLAN
DATE AUGUST, 2021
SHEET NUMBER ED1.6
SCALE 1/8" = 1'-0"