



# TOWN OF GROTON PRESCOTT SCHOOL ELEVATOR INSTALLATION



TOWN OF  
GROTON

PRESCOTT SCHOOL  
ELEVATOR INSTALLATION

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

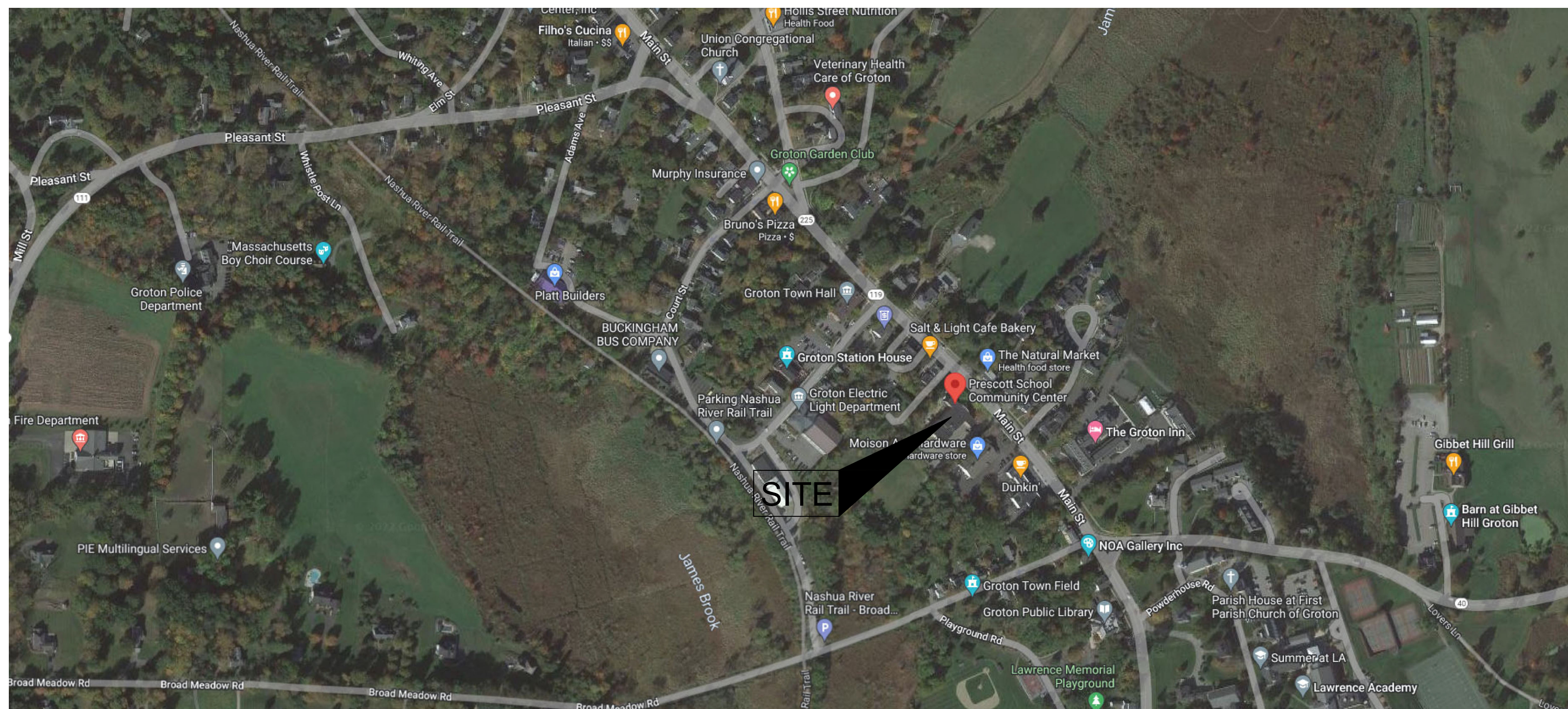
ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109

LOCUS MAP:



LIST OF DRAWINGS:

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STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	NONE
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:  
SHEET TITLE:  
TITLE SHEET

DRAWING NO.  
TS-001





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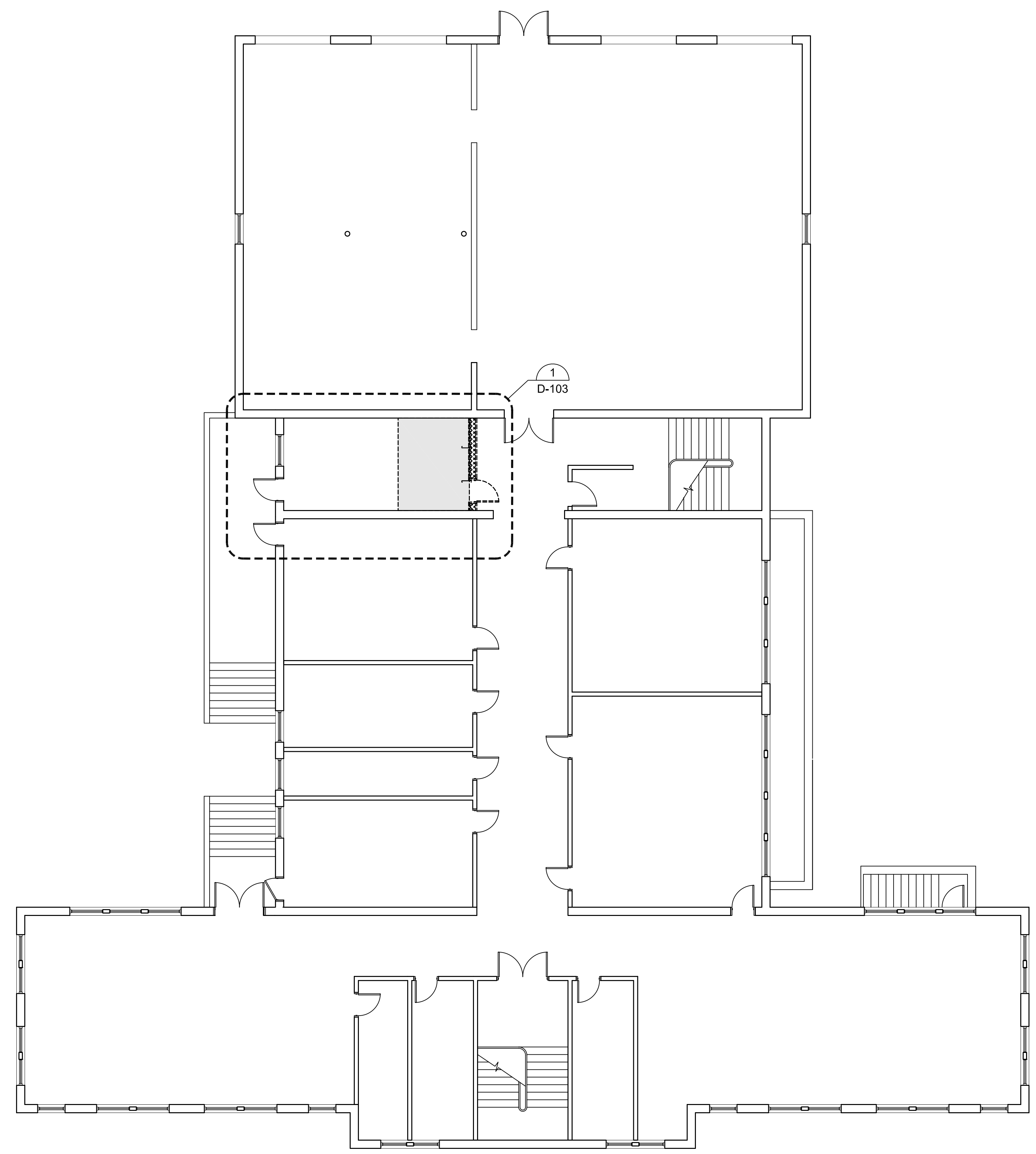
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SHEET TITLE:

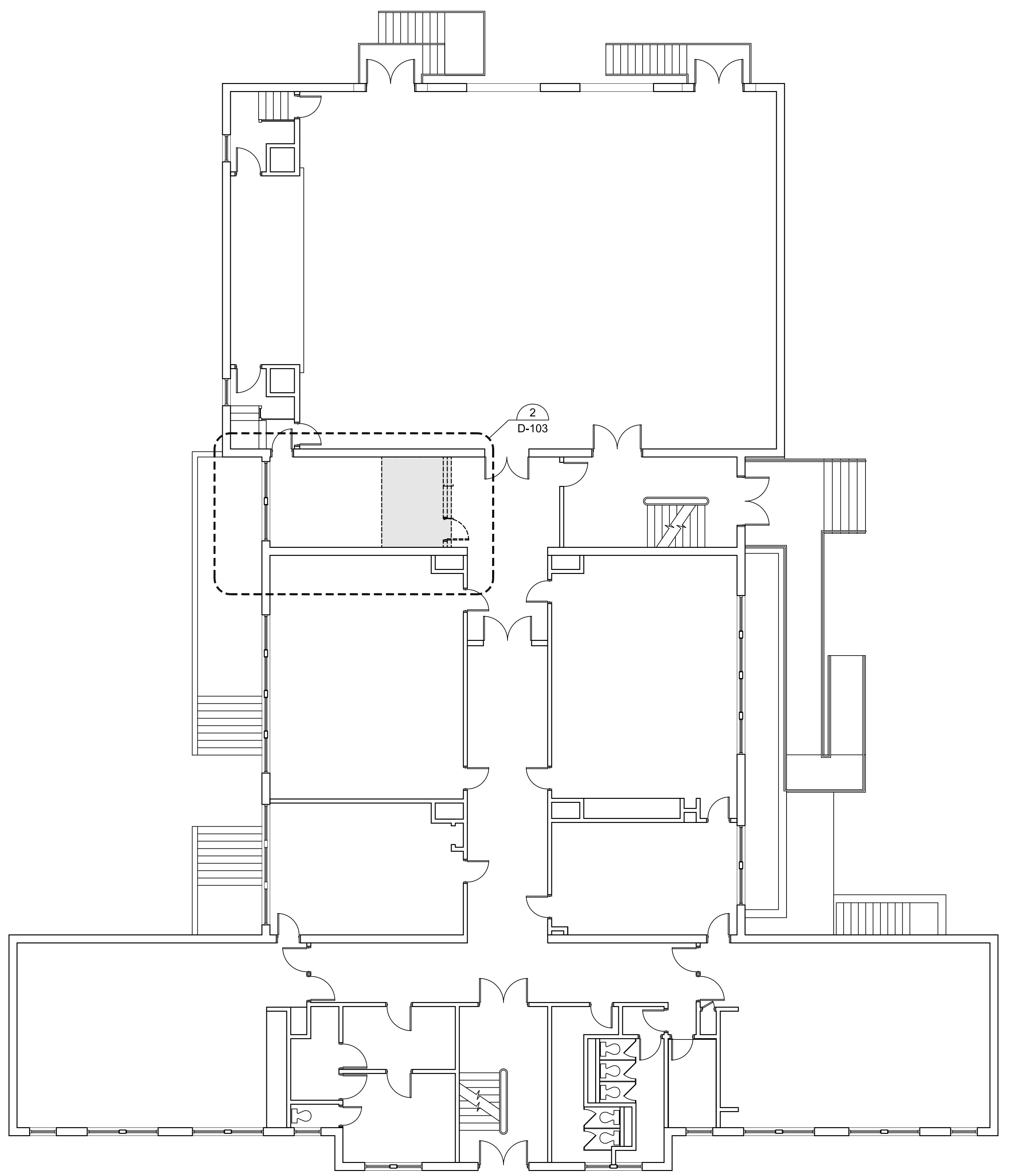
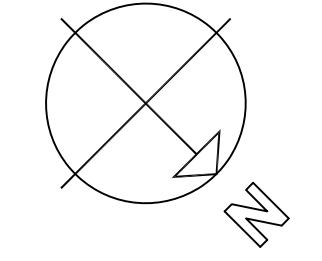
**BASEMENT AND FIRST FLOOR DEMOLITION PLANS**

DRAWING NO.

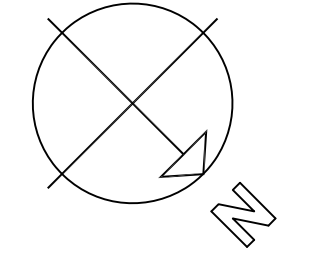
**D-101**



**1 BASEMENT DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET



**2 FIRST FLOOR DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET





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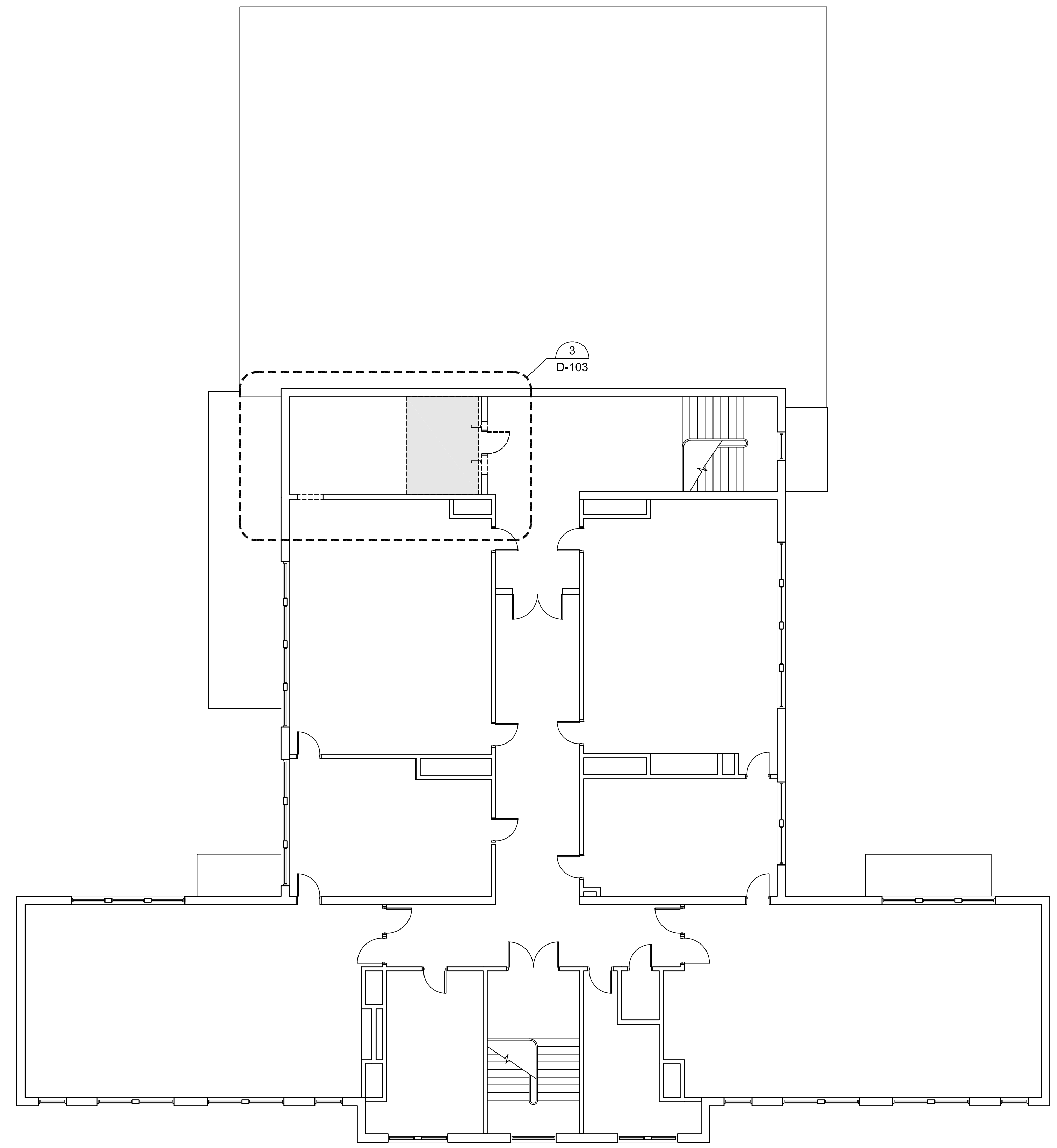
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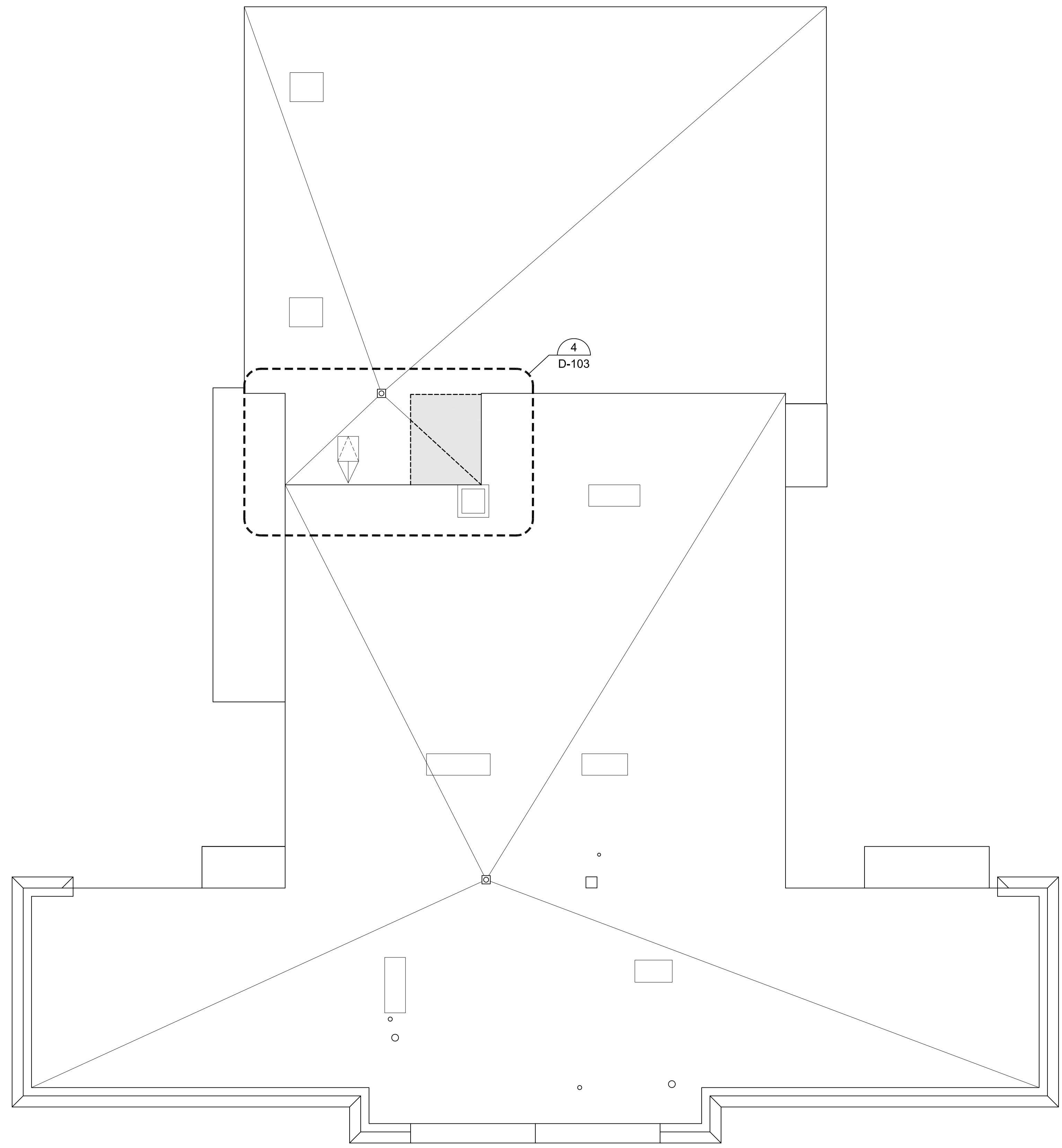
**SECOND FLOOR AND  
ROOF DEMOLITION  
PLANS**

DRAWING NO.

**D-102**



**1 SECOND FLOOR DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



**2 ROOF DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



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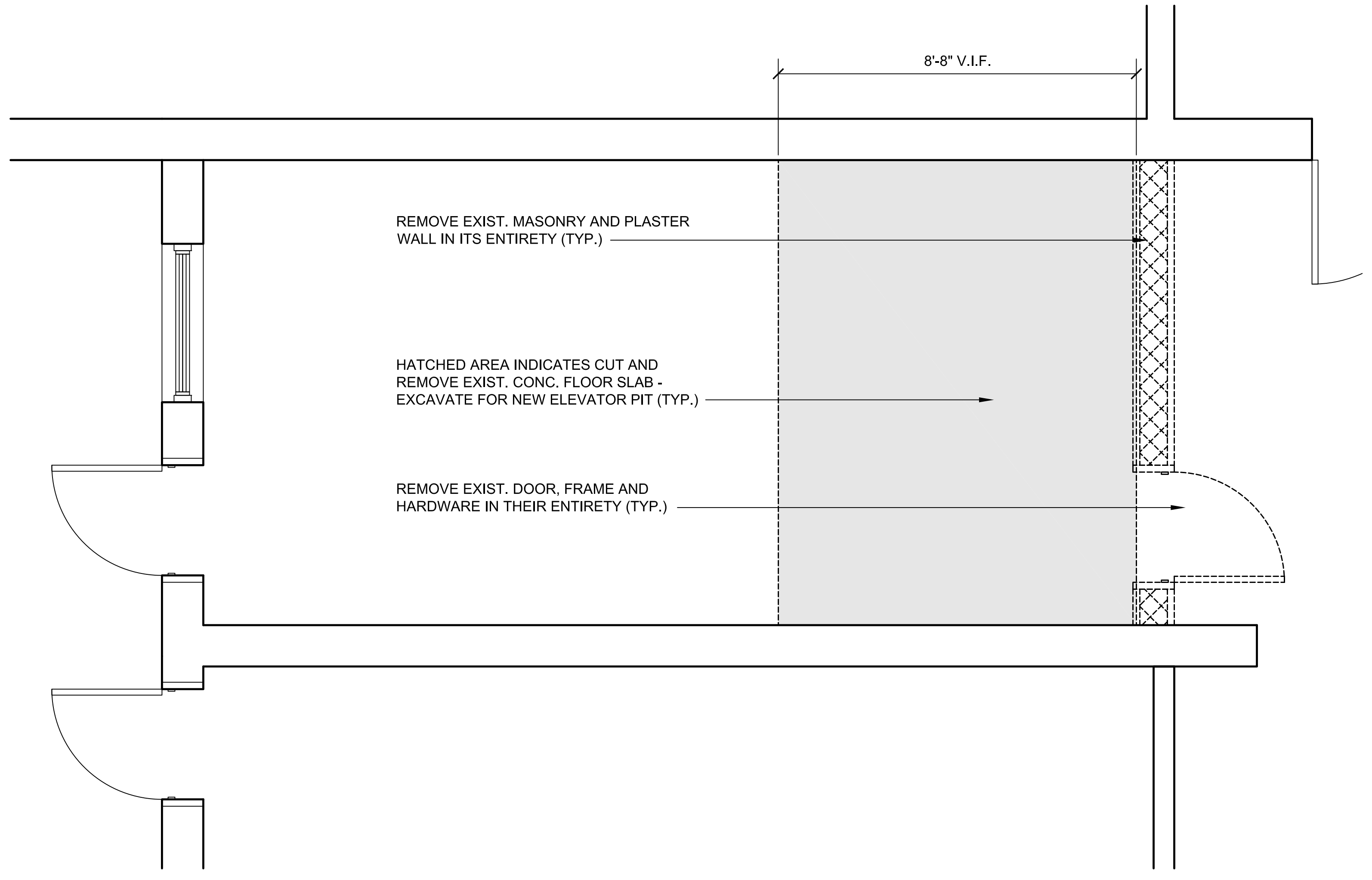
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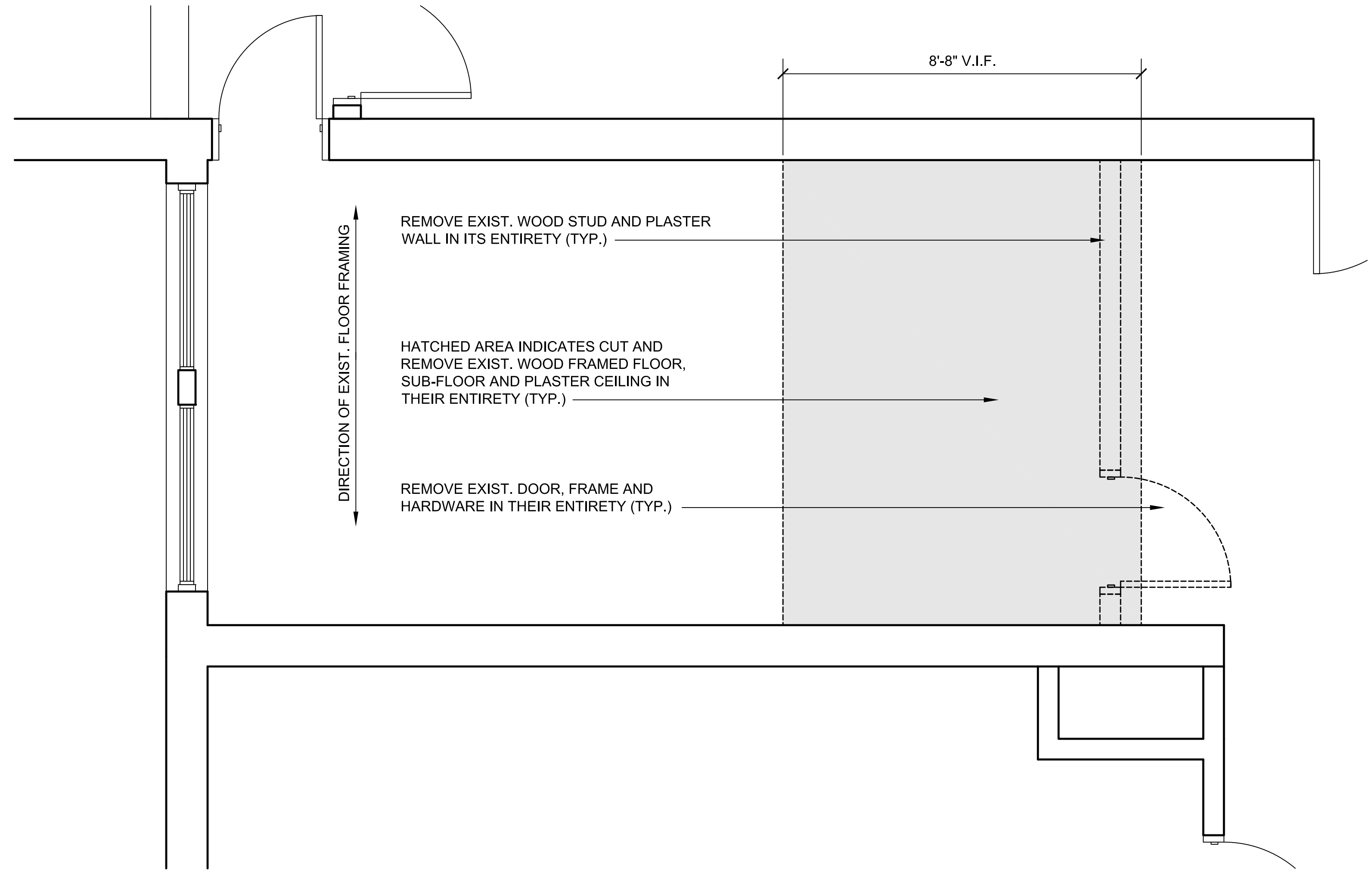
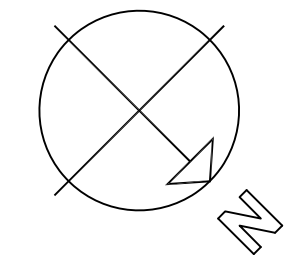
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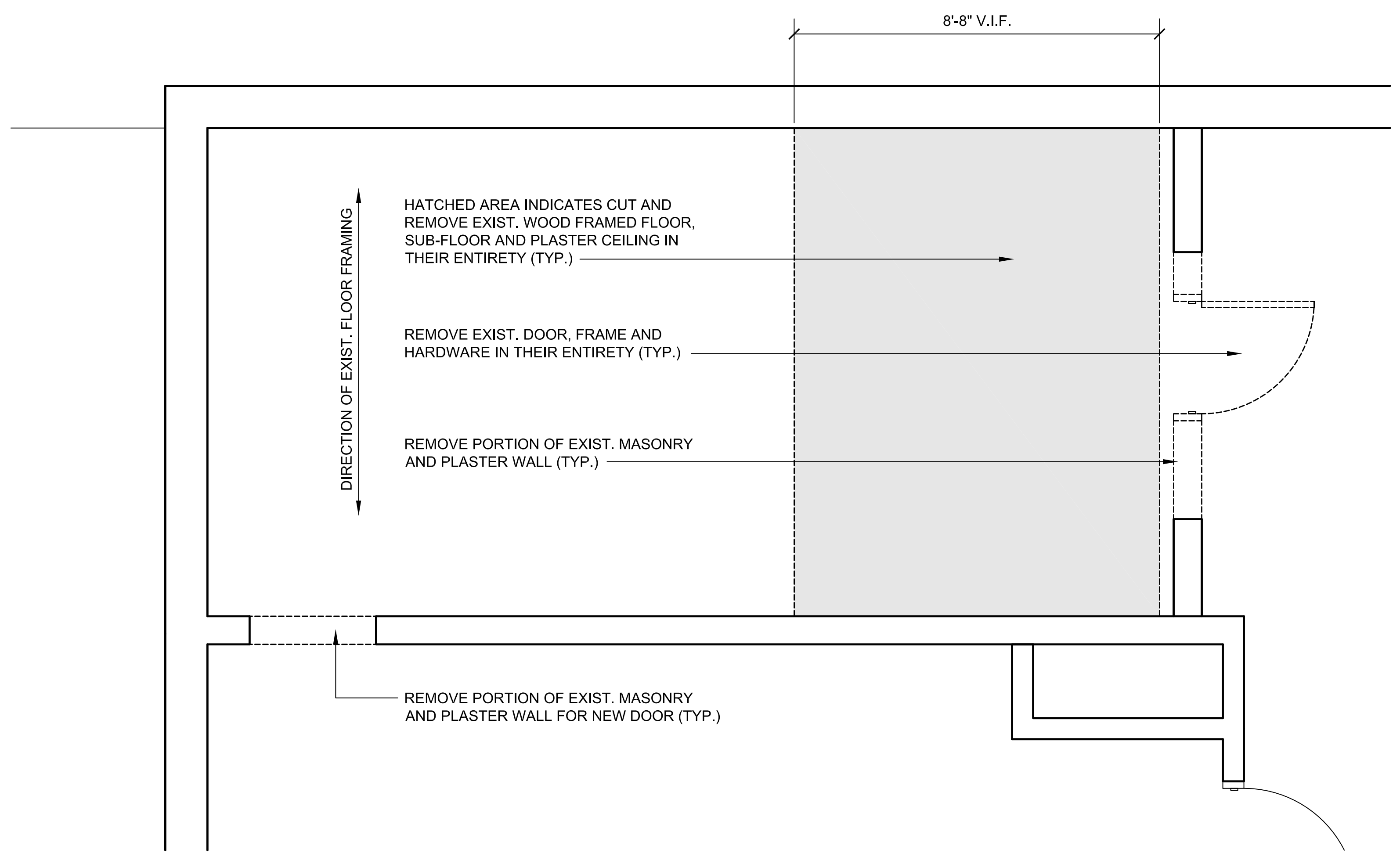
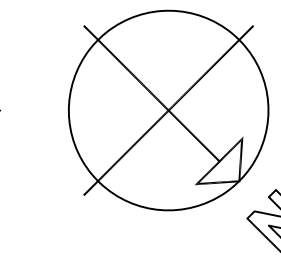
**1 ENLARGED BASEMENT DEMOLITION PLAN**

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



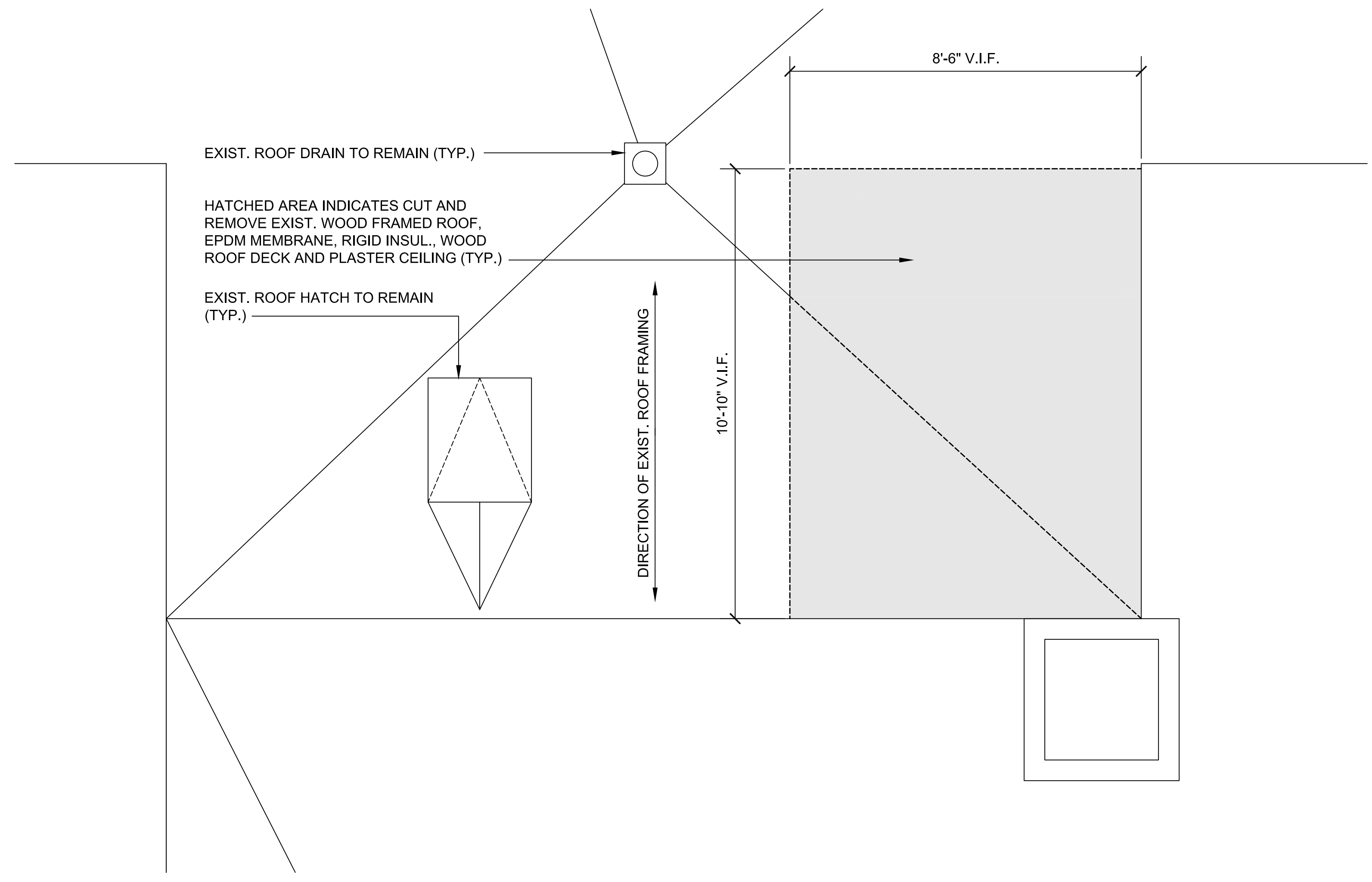
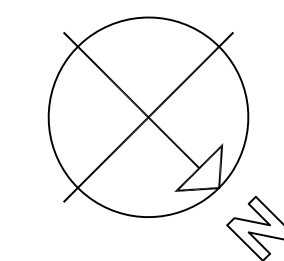
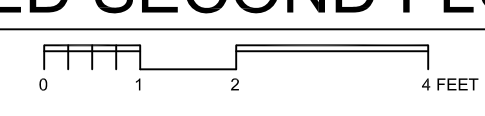
**2 ENLARGED FIRST FLOOR DEMOLITION PLAN**

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



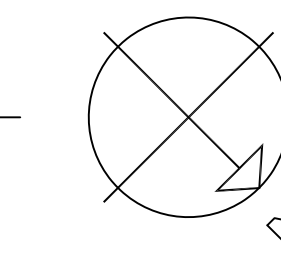
**3 ENLARGED SECOND FLOOR DEMOLITION PLAN**

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



**4 ENLARGED ROOF DEMOLITION PLAN**

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



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BUILDING:

SHEET TITLE:

**ENLARGED  
DEMOLITION PLANS**

DRAWING NO.

**D-103**



## FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOORS		BASE		WALLS		CEILING			COMMENTS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
B01	STORAGE	CONC.	VCT	BRICK/GYP.	VINYL	BRICK/GYP.	PAINT	GYP.	PAINT	8'-0"	
B02	ELEV. MACH. ROOM	CONC.	VCT	GYP.	VINYL	GYP.	PAINT	GYP.	PAINT	8'-0"	
101	STORAGE	WOOD	VCT	GYP./PLASTER	VINYL	GYP./PLASTER	PAINT	ACT		9'-0"	
201	STORAGE	WOOD	VCT	BRICK/CMU	VINYL	BRICK/CMU	PAINT	EXIST. EXPOSED			

1. ALL AREAS DESIGNATED TO BE PAINT SHALL MEAN WALLS, CEILINGS, DOORS, WINDOWS, TRIM, RAILINGS, ETC. UNLESS OTHERWISE NOTED.

## GENERAL NOTES:

1. CONSTRUCTION SHALL COMPLY WITH THE MASSACHUSETTS STATE BUILDING CODE (780 CMR 9TH EDITION), STATE AND LOCAL BUILDING REGULATIONS AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BARRIERS REGULATIONS (521 CMR) AND THE AMERICANS WITH DISABILITIES ACT (ADA).
2. ACCESS INTO AREAS OTHER THAN DESIGNATED IN THE CONTRACT DOCUMENTS IS STRICTLY PROHIBITED. THE AREAS ADJACENT TO THE PROJECT AREA WILL REMAIN OCCUPIED. ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION SERVICES TO THOSE AREAS MUST REMAIN OPERATIONAL DURING CONSTRUCTION.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS.
4. USE OF THE OWNER'S DUMPSTERS IS STRICTLY PROHIBITED.
5. CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED MATERIALS OFF-SITE AND IN ACCORDANCE WITH THE COMMONWEALTH OF MASSACHUSETTS REGULATIONS. DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS.
6. ALL UTILITY SHUTDOWNS SHALL BE COORDINATED IN ADVANCE WITH THE OWNER AND ARCHITECT.
7. CONTRACTOR SHALL FIELD CUT ALL NEW PENETRATIONS THROUGH FLOOR AND CEILING AS CLOSE AS PRACTICALLY POSSIBLE TO EXISTING WALLS AND ADJACENT PENETRATIONS. CORED HOLES AND PENETRATIONS SHALL BE NO MORE THAN 1" DIAMETER GREATER THAN THE PIPE OR CONDUIT THAT IS TO PASS THROUGH THE HOLE. CORES 2" AND LESS SHALL BE DONE BY THE SUBCONTRACTORS. CORES GREATER THAN 2" SHALL BE DONE BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL BROOM CLEAN THE PROJECT AREA AT THE END OF EACH WORK DAY AND MAINTAIN AREAS ADJACENT TO THE PROJECT IN A CLEAN AND UNOBSTRUCTED MANNER.
9. CONTRACTOR IS RESPONSIBLE FOR SECURITY IN THE PROJECT AREA.
10. CONTRACTOR IS RESPONSIBLE TO SHORE AND STABILIZE THE EXISTING BUILDING STRUCTURE DURING CONSTRUCTION.
11. MECHANICAL AND ELECTRICAL CONTRACTORS ARE RESPONSIBLE FOR CUTTING, CAPPING AND/OR VALVING OF THE RESPECTIVE SERVICES TO MAKE THE PROJECT AREA SAFE DURING DEMOLITION. ALL TEMPORARY SHUTDOWNS FOR ESTABLISHING THE NECESSARY CROSS CONNECTIONS OR TIE-INS SHALL BE FULLY COORDINATED WITH THE OWNER AND ARCHITECT IN ADVANCE. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
12. ALL WORK IS "NEW" UNLESS OTHERWISE NOTED.
13. DIMENSIONS ARE SHOWN FROM FACE OF FINISH UNLESS OTHERWISE NOTED.
14. ALL WORK IS TO BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS INDICATED. OTHERWISE, WORK IS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR GENERALLY ACCEPTED INDUSTRY STANDARDS, METHODS AND PROCEDURES.
15. THE CONTRACTOR IS RESPONSIBLE FOR PATCHING EXISTING AREAS IMPACTED BY THE CONSTRUCTION.
16. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
17. PROVIDE TAPES, GASKETS OR SEALANTS TO PROVIDE SEPARATION BETWEEN DISSIMILAR METALS (TYP.)
18. THE CONTRACTOR SHALL CONTACT DIG-SAFE PRIOR TO ANY AND ALL EXCAVATIONS DURING CONSTRUCTION TO ENSURE THAT ALL UNDERGROUND SERVICES ARE IDENTIFIED AND LOCATED PROPERLY AT THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND COSTS FOR AN INDEPENDENT COMPANY TO IDENTIFY AND LOCATE UNDERGROUND UTILITIES ON THE OWNER'S PROPERTY PRIOR TO ANY DIGGING OR EXCAVATIONS.



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BUILDING:

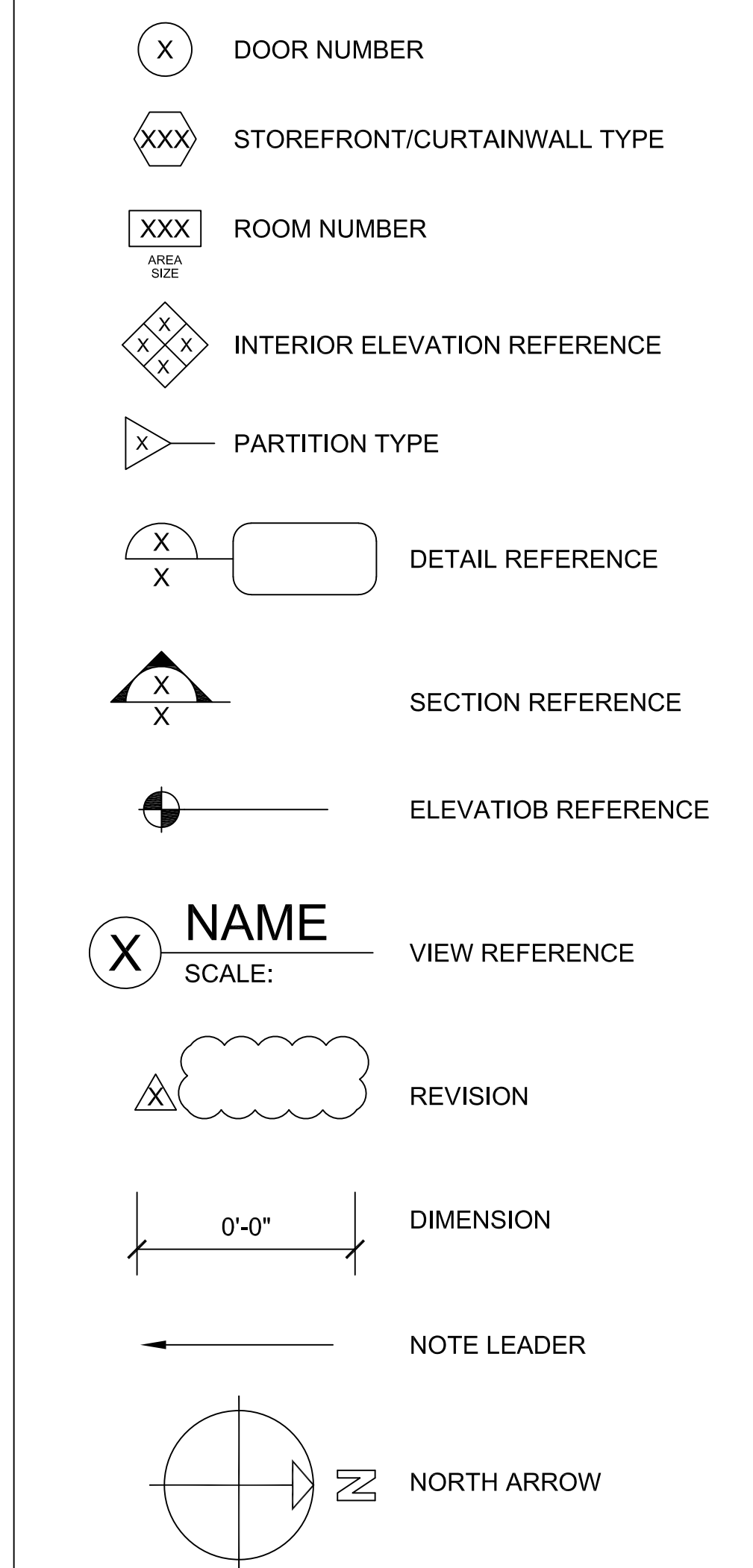
SHEET TITLE:

**GENERAL NOTES,  
SYMBOLS AND  
ABBREVIATIONS**

DRAWING NO.

**A-001**

## SYMBOLS



## ABBREVIATIONS

AB	AIR BARRIER	HC	HANDICAP	RCP	REFLECTED CEILING PLAN
A/C	AIR CONDITIONING	HM	HOLLOW METAL	RD	ROOF DRAIN
ACT	ACOUSTICAL CEILING TILE	HORIZ	HORIZONTAL	REF	REFERENCE
AFF	ABOVE FINISH FLOOR	HP	HIGH POINT	REINF	REINFORCED
ALUM	ALUMINUM	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	REQD	REQUIRED
ANOD	ANODIZED			REV	REVISION
ARCH	ARCHITECTURAL	ID	INSIDE DIAMETER	RH	RIGHT HAND
AUTO	AUTOMATIC	IN	INCH	RM	ROOM
AVG	AVERAGE	INSUL	INSULATION	RO	ROUGH OPENING
BIT	BITUMINOUS	INT	INTERIOR	SECT	SECTION
BLDG	BUILDING	INV	INVERT	SIM	SIMILAR
BOT	BOTTOM	JAN	JANITOR	SQ	SQUARE
CJ	CONTROL JOINT	JT	JOINT	STC	SOUND TRANSMISSION CLASS
CLG	CEILING	KIT	KITCHEN	STD	STANDARD
CMU	CONCRETE MASONRY UNIT	LAM	LAMINATED	STOR	STORAGE
COL	COLUMN	LAV	LAVATORY	STRUCT	STRUCTURAL
CONC	CONCRETE	LB	POUND	T&B	TOP AND BOTTOM
CONT	CONTINUOUS	LH	LEFT HAND	T&G	TONGUE AND GROOVE
CT	CERAMIC TILE	LP	LOW POINT	TEL	TELEPHONE
DEG	DEGREE	LT	LIGHT	TEMP	TEMPORARY
DEMO	DEMOLITION			TOS	TOP OF STEEL
DEPT	DEPARTMENT	MACH	MACHINE	TYP	TYPICAL
DET	DETAIL	MAS	MASONRY	UL	UNDERWRITERS LABORATORY
DIA	DIAMETER	MAT	MATERIAL	UON	UNLESS OTHERWISE NOTED
DIM	DIMENSION	MAX	MAXIMUM		
DN	DOWN	MECH	MECHANICAL	VB	VAPOR BARRIER
DWG	DRAWING	MFR	MANUFACTURER	VCT	VINYL COMPOSITION TILE
EA	EACH	MIN	MINIMUM	VERT	VERTICAL
EJ	EXPANSION JOINT	MISC	MISCELLANEOUS	VEST	VESTIBULE
EL	ELEVATION	MO	MASONRY OPENING	VIF	VERIFY IN FIELD
ELEC	ELECTRICAL	MTL	METAL		
ELEV	ELEVATION OR ELEVATOR			W/	WITH
EMER	EMERGENCY	N/A	NOT APPLICABLE	WD	WOOD
EQ	EQUAL	NIC	NOT IN CONTRACT	WIN	WINDOW
EQUIP	EQUIPMENT	NO	NUMBER	WP	WORK POINT
EXIST	EXISTING	NTS	NOT TO SCALE	WWF	WELDED WIRE FABRIC
EXT	EXTERIOR				
FA	FIRE ALARM	OC	ON CENTER		
FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER		
FE	FIRE EXTINGUISHER	OH	OVERHEAD		
FF	FINISH FLOOR	OPP	OPPOSITE		
FIN	FINISH OR FINISHED	ORD	OVERFLOW ROOF DRAIN		
FIXT	FIXTURE	OZ	OUNCE		
FR	FIRE RATED				
FT	FOOT	PART	PARTIAL		
GA	GAUGE	PERF	PERFORATED		
GALV	GALVANIZED	PL	PLATE		
GL	GLASS OR GLAZING	PSF	POUNDS PER SQUARE FOOT		
GWB	GYPSUM WALLBOARD	PSI	POUNDS PER SQUARE INCH		
		QTY	QUANTITY		

NOTE: NOTIFY THE ARCHITECT IMMEDIATELY IF CLARIFICATION IS NEEDED WITH AN ABBREVIATION NOT LISTED ABOVE (TYP.)





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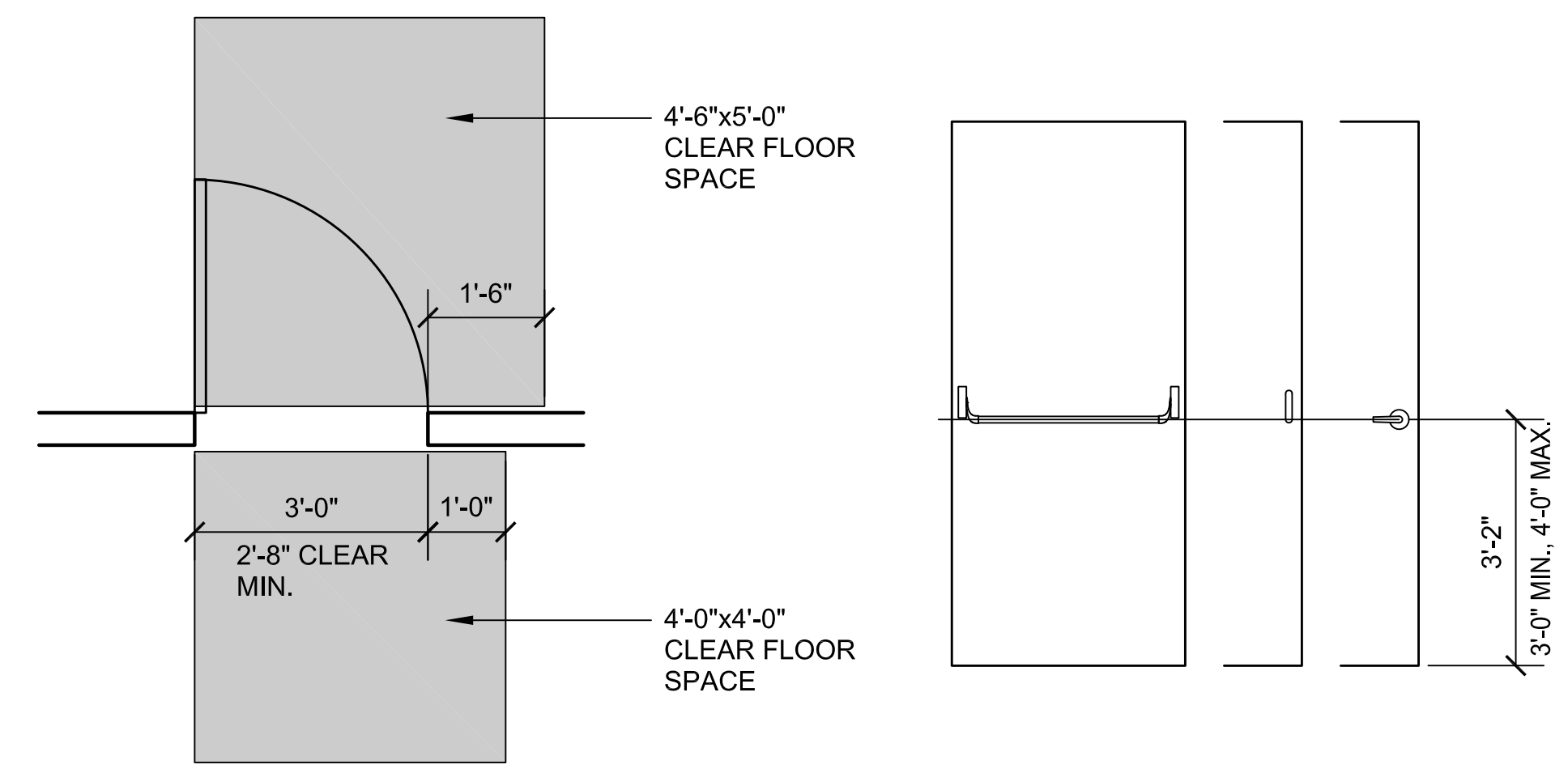
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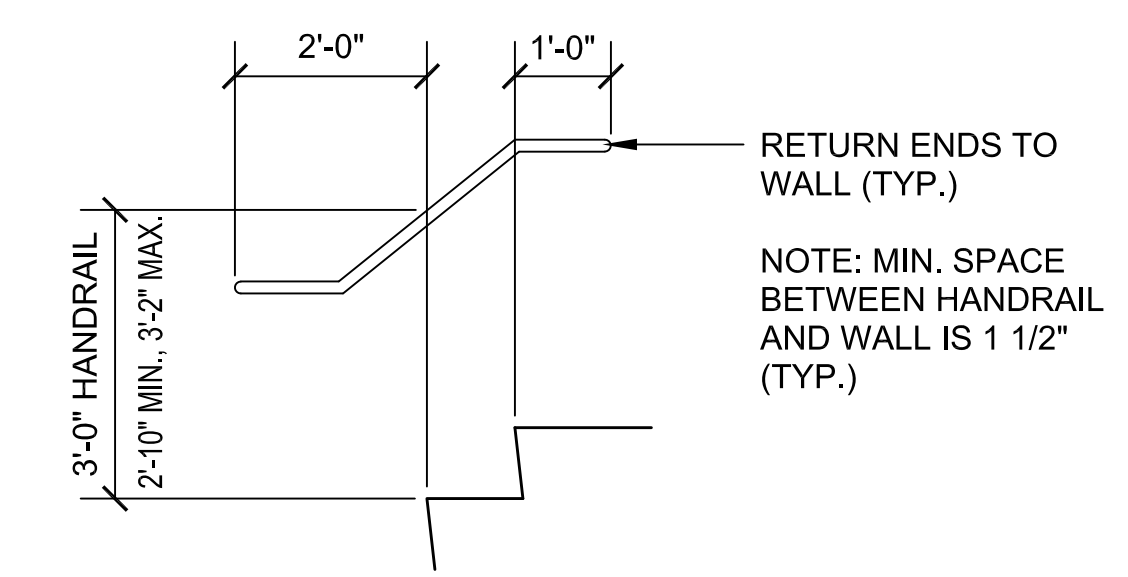
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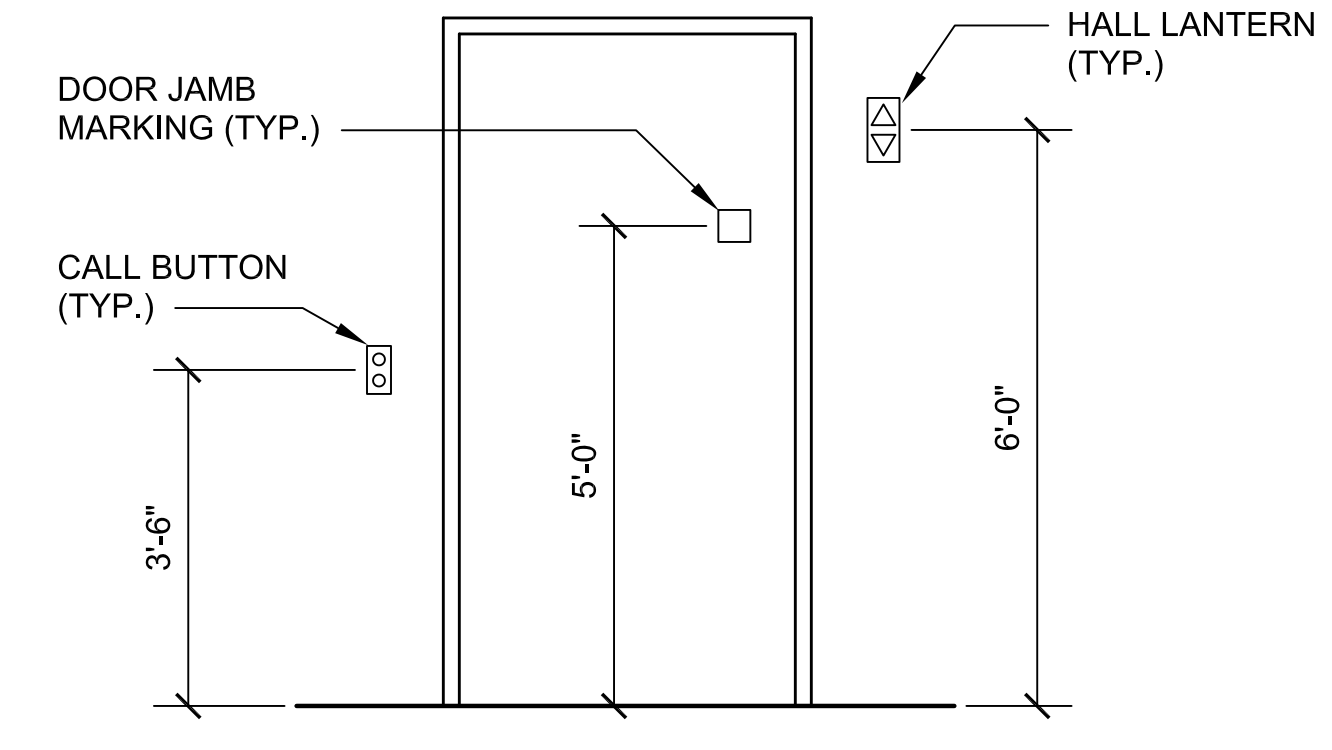
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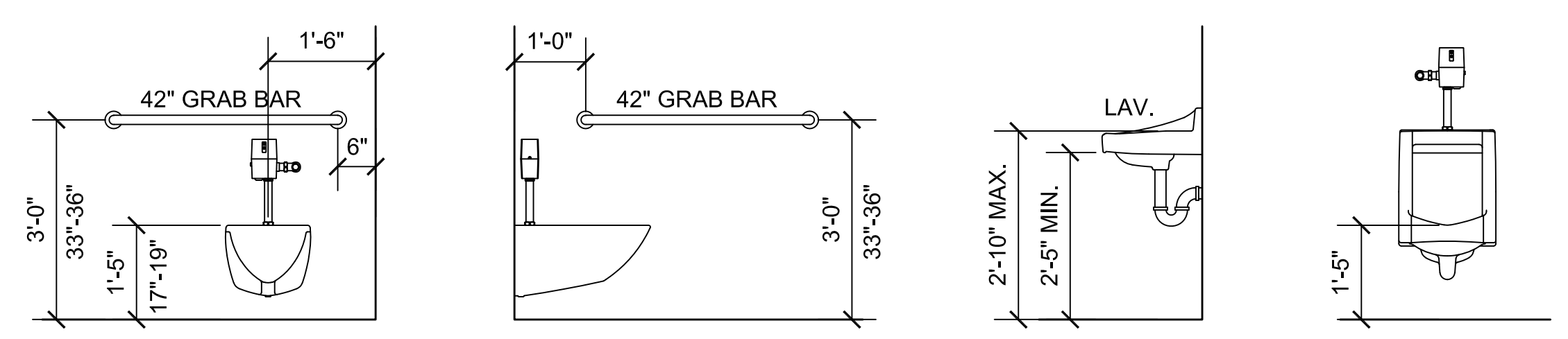
**1 DOOR ACCESSIBILITY**  
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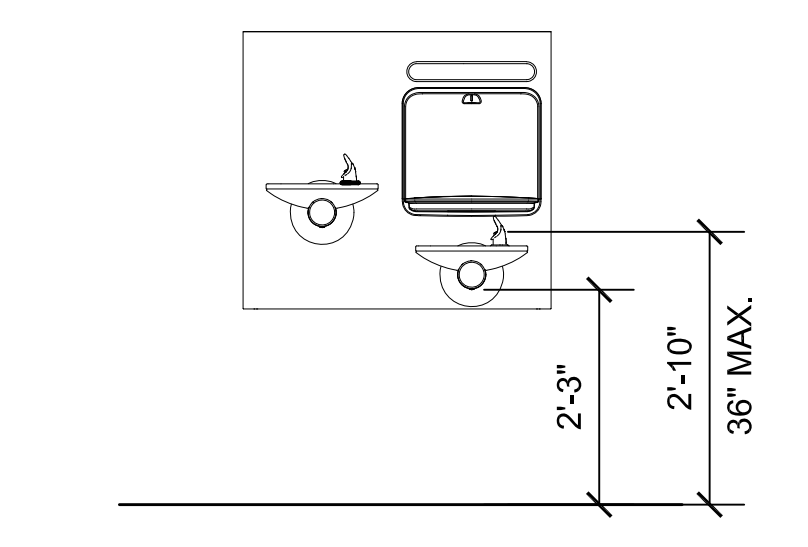
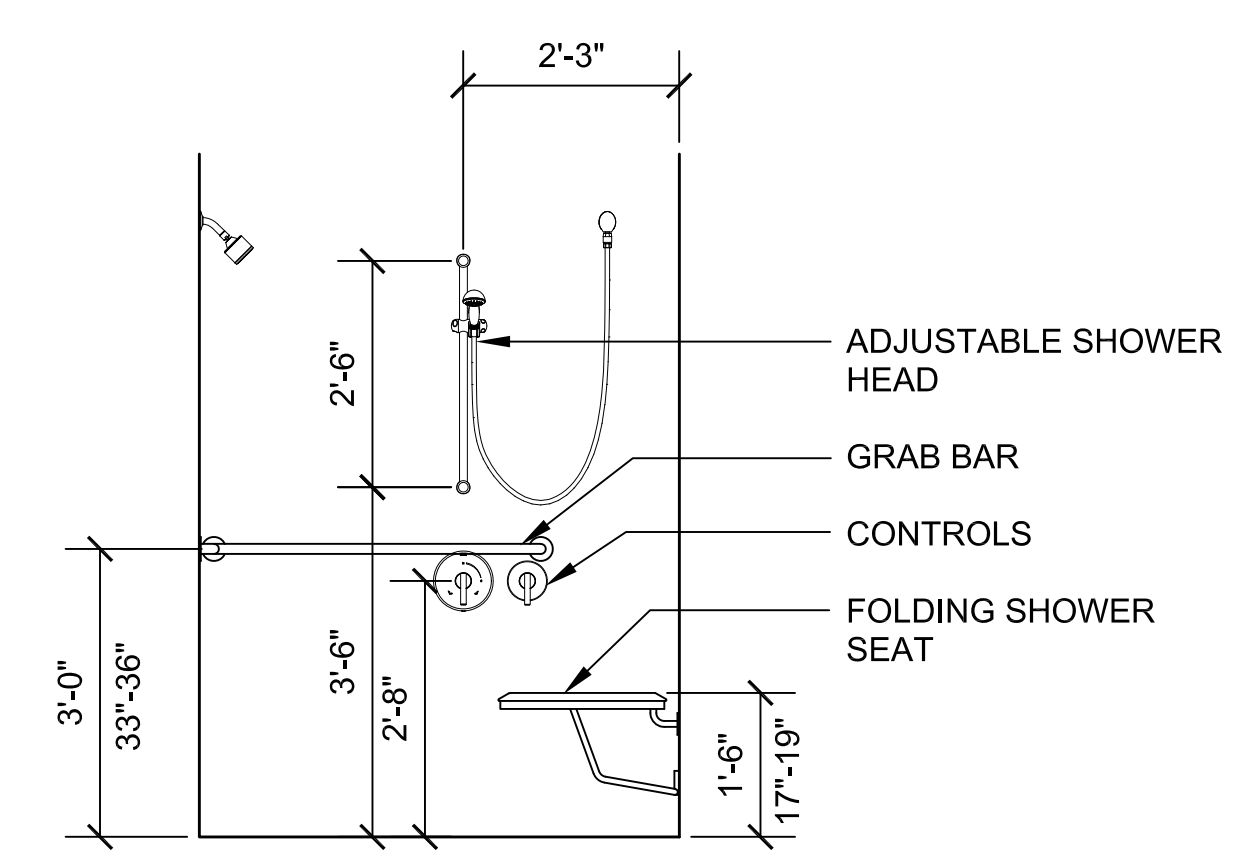
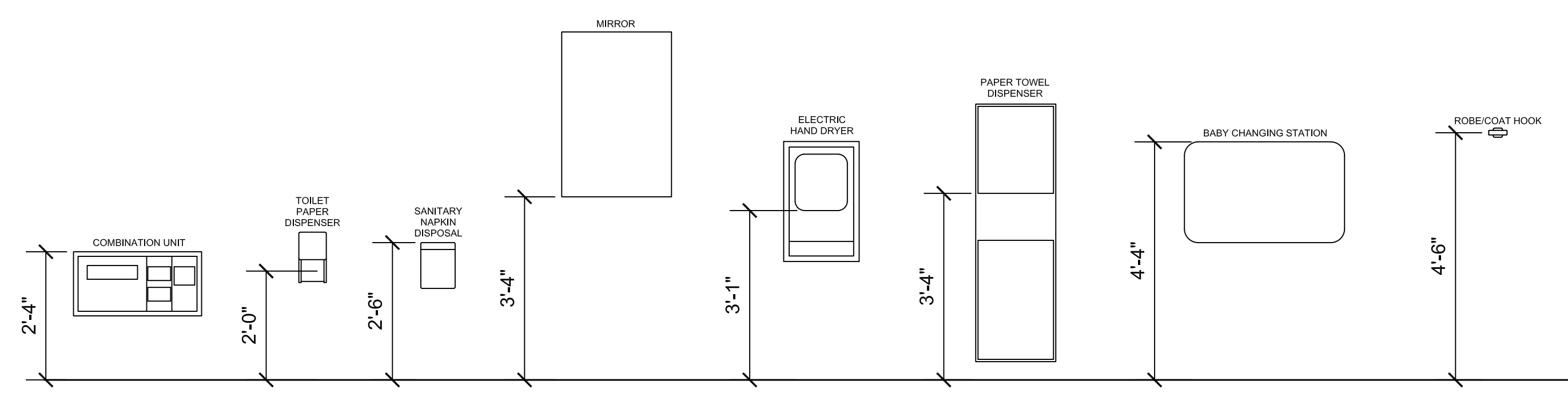
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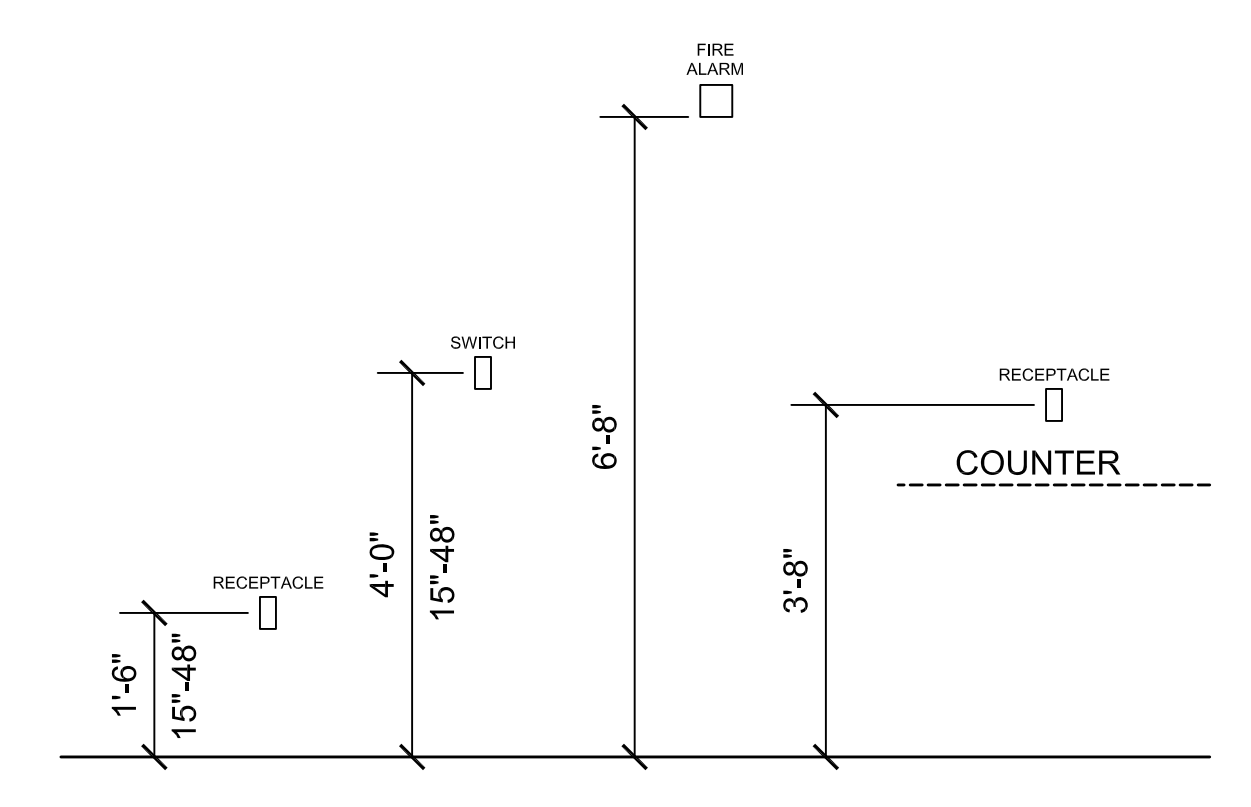
**3 ELEVATOR ACCESSIBILITY**  
SCALE: 1/2"=1'-0"  
0 1 2 4 FEET



**4 RESTROOM ACCESSIBILITY**  
SCALE: 1/2"=1'-0"  
0 1 2 4 FEET



**5 DRINKING FOUNTAIN ACCESSIBILITY**  
SCALE: 1/2"=1'-0"  
0 1 2 4 FEET



**6 DEVICES ACCESSIBILITY**  
SCALE: 1/2"=1'-0"  
0 1 2 4 FEET

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SHEET TITLE:

**HANDICAP  
ACCESSIBILITY  
DIMENSION  
REFERENCES**

DRAWING NO.  
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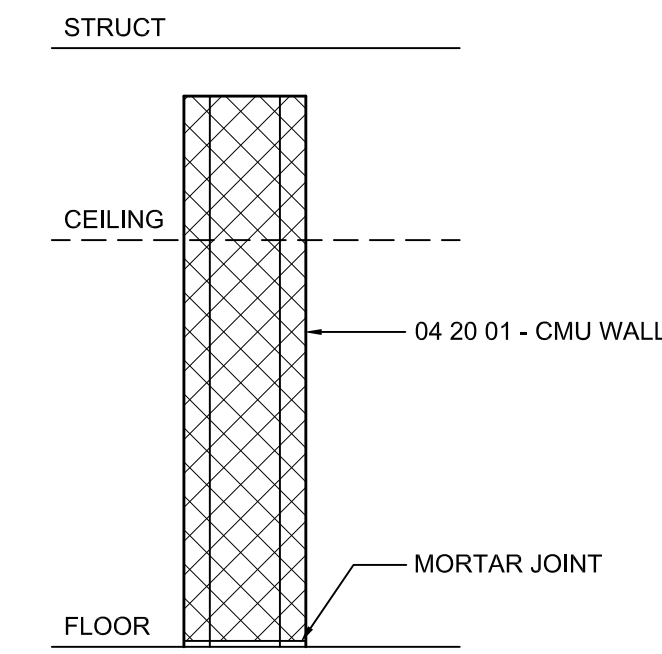
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BOSTON, MA 02109

**PARTITION NOTES:**

- U.L. DESIGN NUMBERS REFER TO THE UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY - LATEST EDITION (TYP.)
- FIRE RATED PARTITIONS SHALL HAVE FIRESTOP SEALANTS AT HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTURES WITH DISSIMILAR MATERIALS (TYP.)
- NON-RATED PARTITIONS SHALL HAVE SEALANTS AT THE HEAD, SILL, THROUGH PENETRATIONS, OPENINGS AND JUNCTURES WITH DISSIMILAR MATERIALS (TYP.)
- SUBSTITUTE 5/8" MOLD RESISTANT GYPSUM BOARD FOR 5/8" GYPSUM BOARD IN SHOWERS (TYP.)
- SUBSTITUTE 5/8" ABUSE RESISTANT GYPSUM BOARD FOR 5/8" GYPSUM BOARD IN WAREHOUSE SPACES, SHOPS, ETC. (TYP.)
- LINE OF "STRUCTURE" SHOWN ON PARTITION TYPES IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS. OFFSET PARTITION CONSTRUCTION AS NECESSARY TO EXTEND WALL TO DECK ABOVE AND SEAL AS SHOWN (TYP.)
- PROVIDE DEFLECTION TRACKS OR CLIPS FOR ALL PARTITIONS ABUTTING STRUCTURE ABOVE (TYP.)
- ALL GYPSUM BOARD SHALL BE PREPED, PRIMED AND PAINTED IN ACCORDANCE WITH SECTION 09 90 10 (TYP.)
- FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS AND SMOKE BARRIERS SHALL HAVE PERMANENT STENCILING LOCATED ABOVE ACCESSIBLE CEILINGS. STENCILING SHALL BE LOCATED WITHIN 15 FEET OF ENDS OF WALLS AND AT INTERVALS OF NOT MORE THAN 30 FEET. STENCILING SHALL BE 3" HIGH AND READ "FIRE WALL", "FIRE BARRIER", "FIRE PARTITION" OR "SMOKE BARRIER" (TYP.)



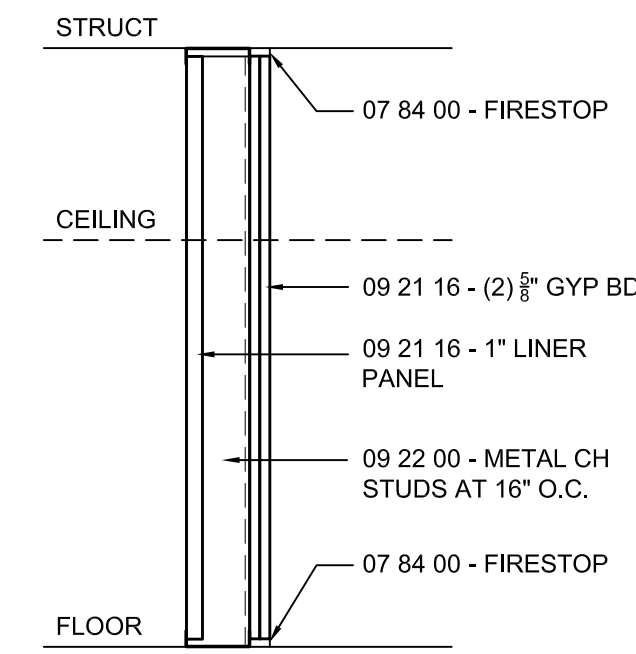
**2HR FIRE RATED CMU**

2 HOUR FIRE RATED  
UL DESIGN U905

SUFFIX	NOMINAL WIDTH	ACTUAL WIDTH
4	4"	3 5/8"
6	6"	5 5/8"
8	8"	7 5/8"
10	10"	9 5/8"
12	12"	11 5/8"

**1 PARTITION TYPE 1**

SCALE: 1"=1'-0"



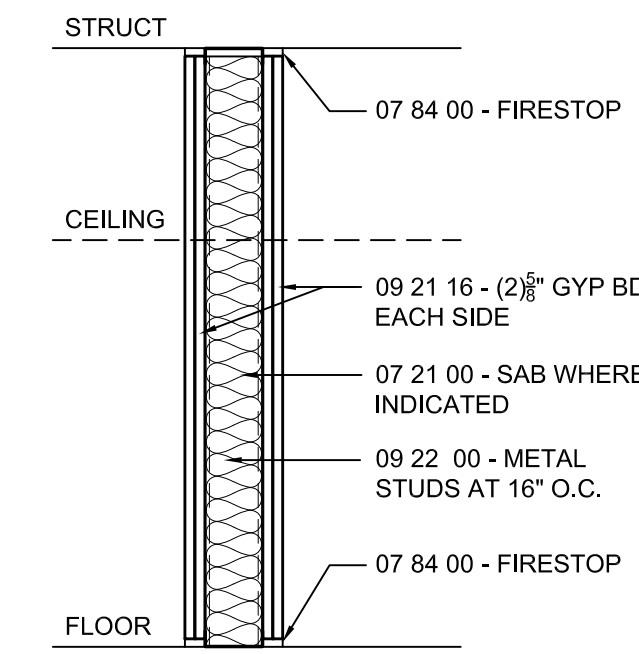
**2HR SHAFTWALL**

2 HOUR FIRE RATED  
UL DESIGN U415

SUFFIX	STUD SIZE	TOTAL WIDTH
2	2 1/2"	3 1/8"
4	4"	4 5/8"
6	6"	6 5/8"

**2 PARTITION TYPE 2**

SCALE: 1"=1'-0"



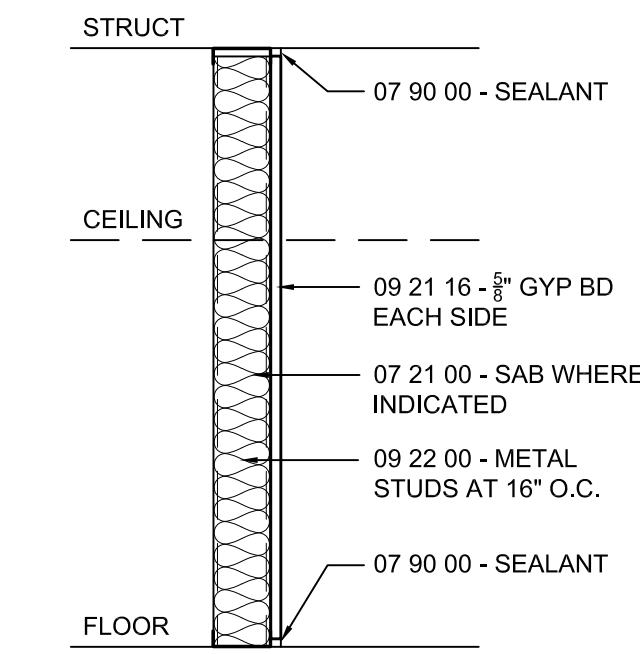
**2HR FIRE RATED**

2 HOUR FIRE RATED  
UL DESIGN U411  
STC 36 (46 W/ 3" SAB)

SUFFIX	STUD SIZE	TOTAL WIDTH
3	3 5/8"	6 1/8"
4	4"	6 1/2"
6	6"	8 1/2"
8	8"	10 1/2"

**3 PARTITION TYPE 3**

SCALE: 1"=1'-0"



**NON-RATED**

NON-RATED

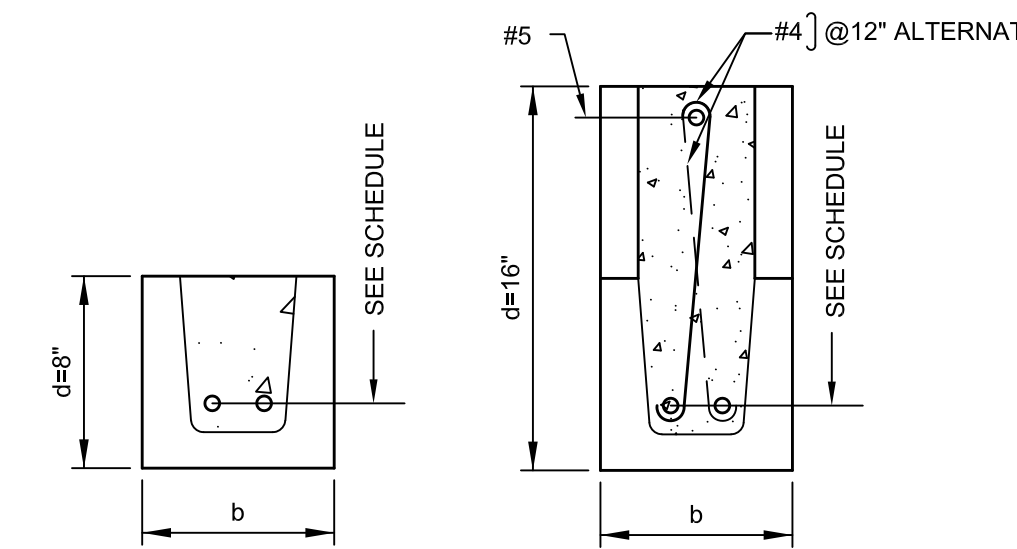
SUFFIX	STUD SIZE	TOTAL WIDTH
1	1 5/8"	2 1/4"
2	2 1/2"	3 1/8"
3	3 5/8"	4 1/4"
4	4"	4 5/8"
6	6"	6 5/8"
8	8"	8 5/8"

**4 PARTITION TYPE 4**

SCALE: 1"=1'-0"

REINFORCING IN LINTELS				
CLEAR SPAN	< 4'-0"		> 4'-0"	
	d	BARS	d	BARS
8" BLOCK	8"	2-#5	16"	2-#5

**5 CMU LINTELS SCHEDULE**  
SCALE: NOT TO SCALE



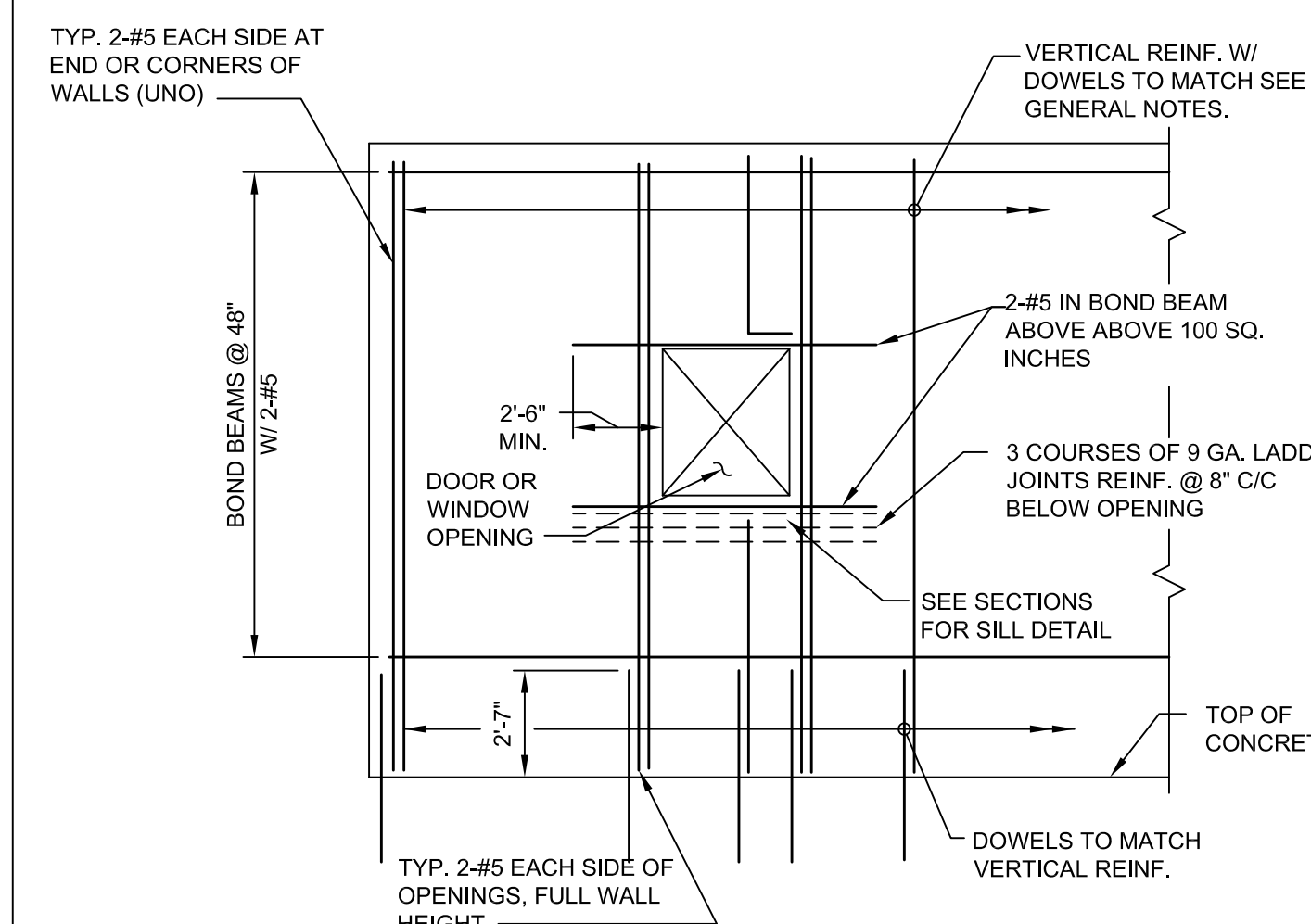
- NOTES:  
1. LINTELS SHALL HAVE A MINIMUM END BEARING OF 8".  
2. SEE CMU LINTELS SCHEDULE ABOVE FOR DIMENSION AND REINFORCING.

**7 REINFORCED CMU LINTELS FOR MASONRY WALLS**

SCALE: NOT TO SCALE

**REINFORCED MASONRY**

- F1 CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530)" AND THE "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1)".
- F2 MASONRY BLOCK WALLS ON THIS PROJECT SHALL BE GROUTED AND REINFORCED AS FOLLOWS, UNLESS NOTED OTHERWISE: ALL 8" WALLS #5@24" VERTICAL. 9GA. LADDER TYPE @ 16" HORIZ. AND W/ GROUTED BOND BEAMS AS SHOWN W/ 2-#5 CONT.
- F3 REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- F4 REINF. BAR LAP SHALL BE 31" FOR #5. LAP FOR HORIZONTAL LADDER TYPE REINF. SHALL BE 12".
- F5 PROVIDE DOWELS TO MATCH VERT. REINF.
- F6 MASONRY BLOCK SHALL BE TYPE NORMAL WEIGHT AND HAVE A NET COMPRESSIVE STRENGTH OF 1900 PSI MINIMUM.
- F7 MORTAR SHALL BE TYPE S WITH 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI.
- F8 GROUT SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- F9 PROVIDE 2#5 ADDITIONAL VERTICAL BARS AT CORNER OF WALLS AND AT OPENINGS, UNLESS NOTED OTHERWISE.
- F10 MASONRY ERECTION SHALL HAVE FULL INSPECTION.
- F11 CONTROL JOINT SHALL BE PROVIDED AT ALL INTERIOR MASONRY PARTITION AND BEARING/EXTERIOR WALL INTERSECTION. INTERRUPT HORIZONTAL REINFORCING AT CONTROL JOINT.
- F12 PROVIDE TOP AND BOTTOM ANCHORAGE FOR INTERIOR NON-LOAD BEARING MASONRY WALLS.
- F13 FOR MASONRY WALL TYPES AND LOCATIONS SEE ARCHITECTURAL DRAWINGS.

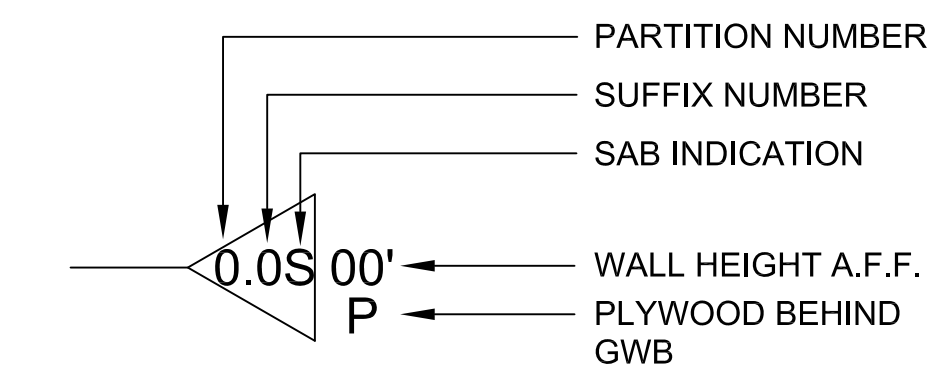


- NOTES:  
1. ADDITIONAL REINFORCING BARS ARE NOT REQUIRED FOR OPENINGS LESS THAN 100 SQ. INCHES & LESS THAN 12" IN ANY DIRECTION.  
2. OPENINGS GREATER THAN 100 SQ. INCHES SHALL BE REINFORCED AS SHOWN.  
3. PROVIDE TYP. CONT. BOND BEAMS AT THE TOP & BOTTOM OF WALL.

**6 ELEVATION CMU WALL**

SCALE: NOT TO SCALE

NOTE: SEE STRUCTURAL DRAWINGS FOR BASE OF WALL DETAILS AND CONNECTIONS (TYP.)



STAMP

REV DATE DESCRIPTION

DATE 1/11/23  
SCALE AS NOTED  
DRAWN BY MTV  
CHECKED BY GKY  
PROJECT NO. 22009

BUILDING:

SHEET TITLE:

**PARTITION TYPES**

DRAWING NO.

**A-003**





TOWN OF GROTON

PRESCOTT SCHOOL  
ELEVATOR INSTALLATION

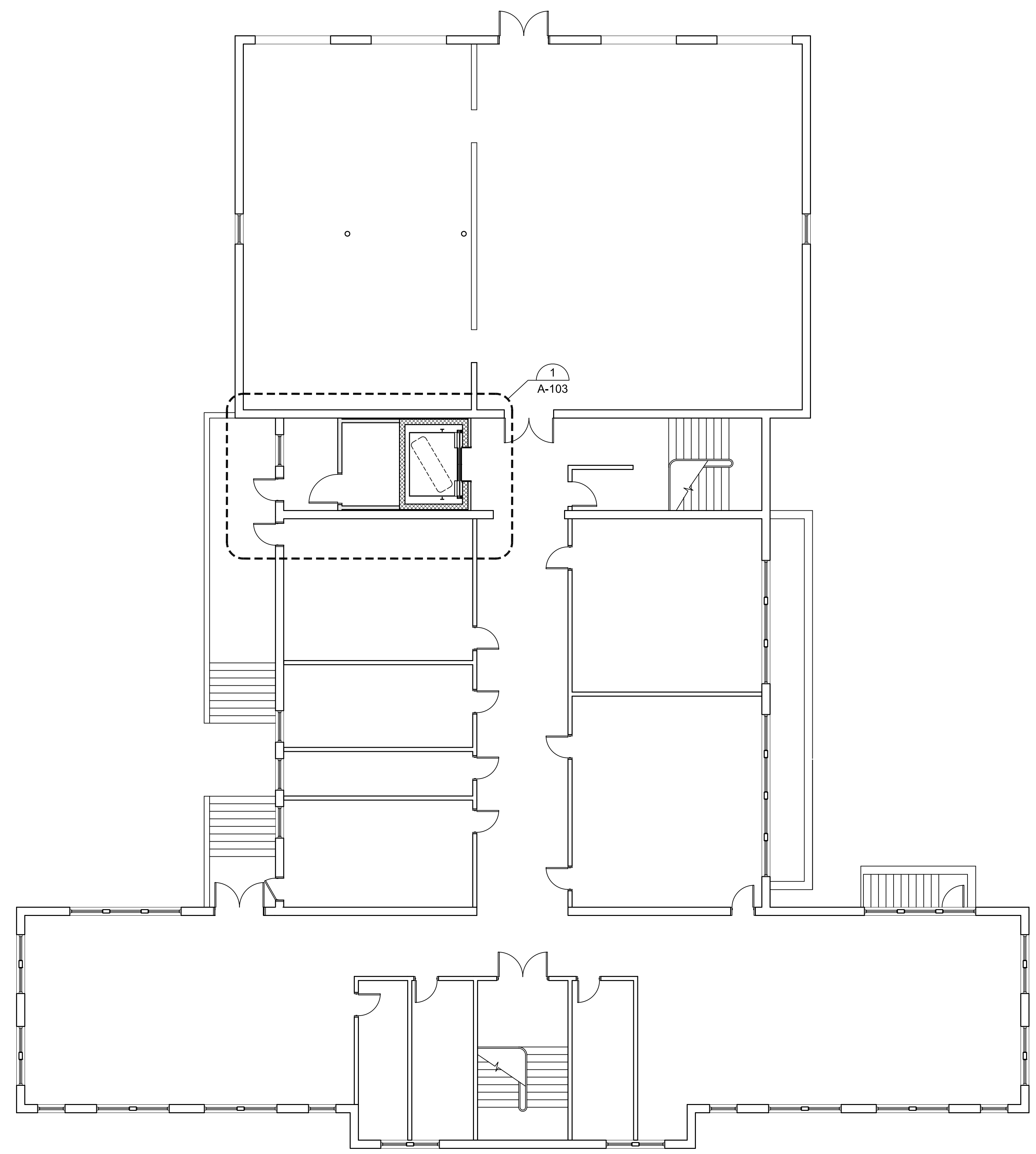
OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

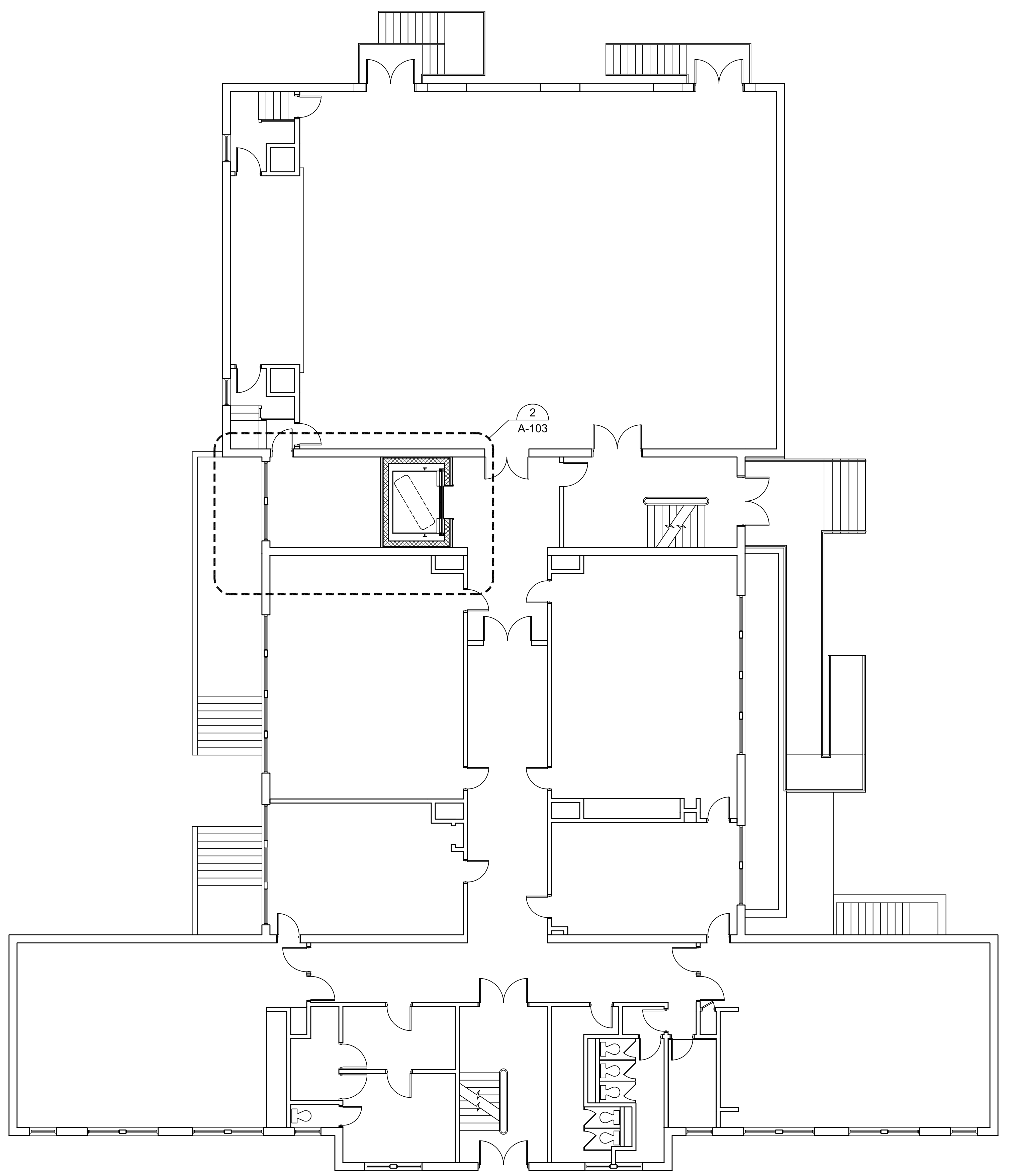
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



**1** NEW BASEMENT FLOOR PLAN  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET



**2** NEW FIRST FLOOR PLAN  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/8" = 1'-0"
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:  
SHEET TITLE:  
**NEW BASEMENT AND  
FIRST FLOOR PLANS**

DRAWING NO.  
**A-101**





**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109

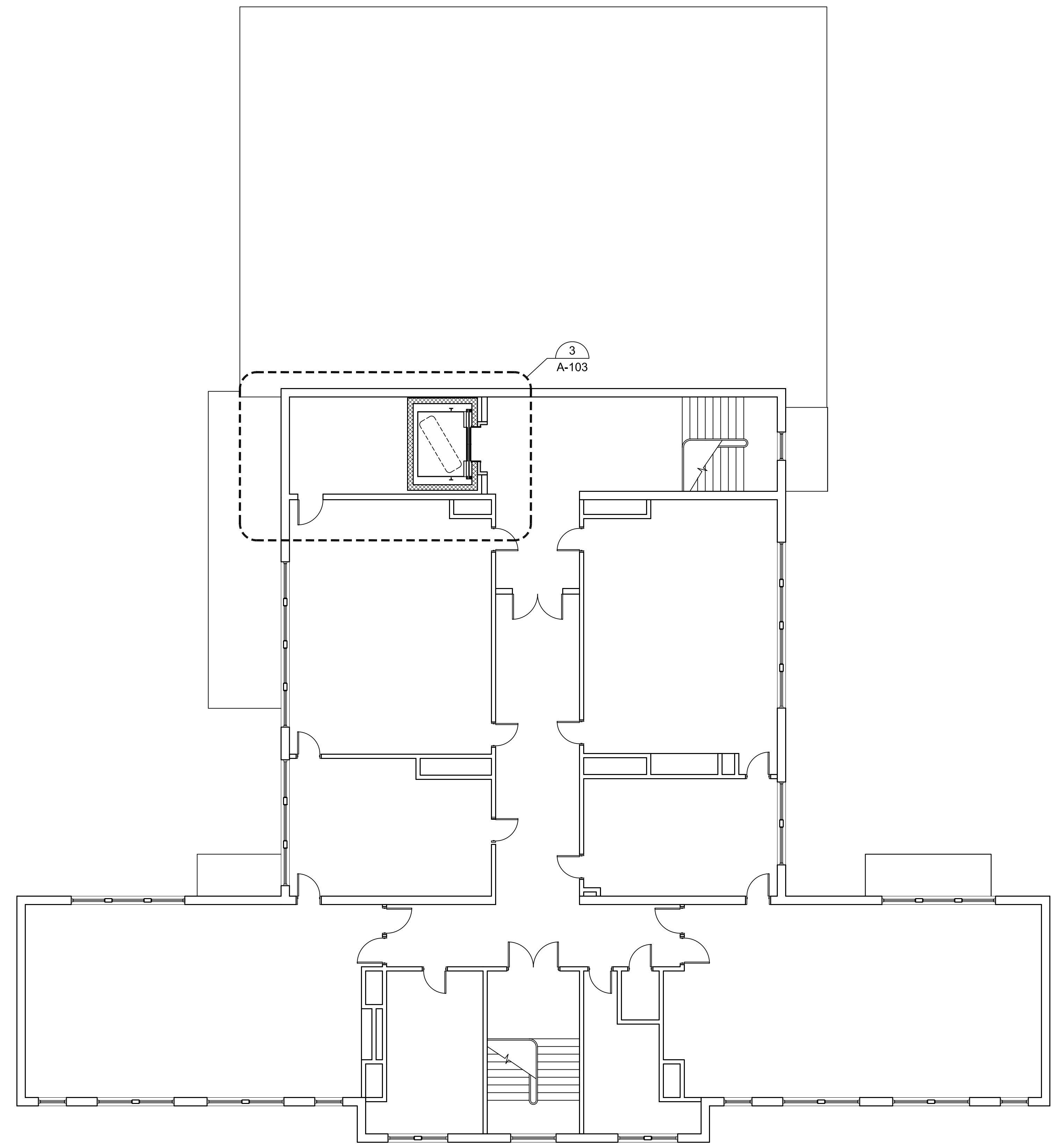
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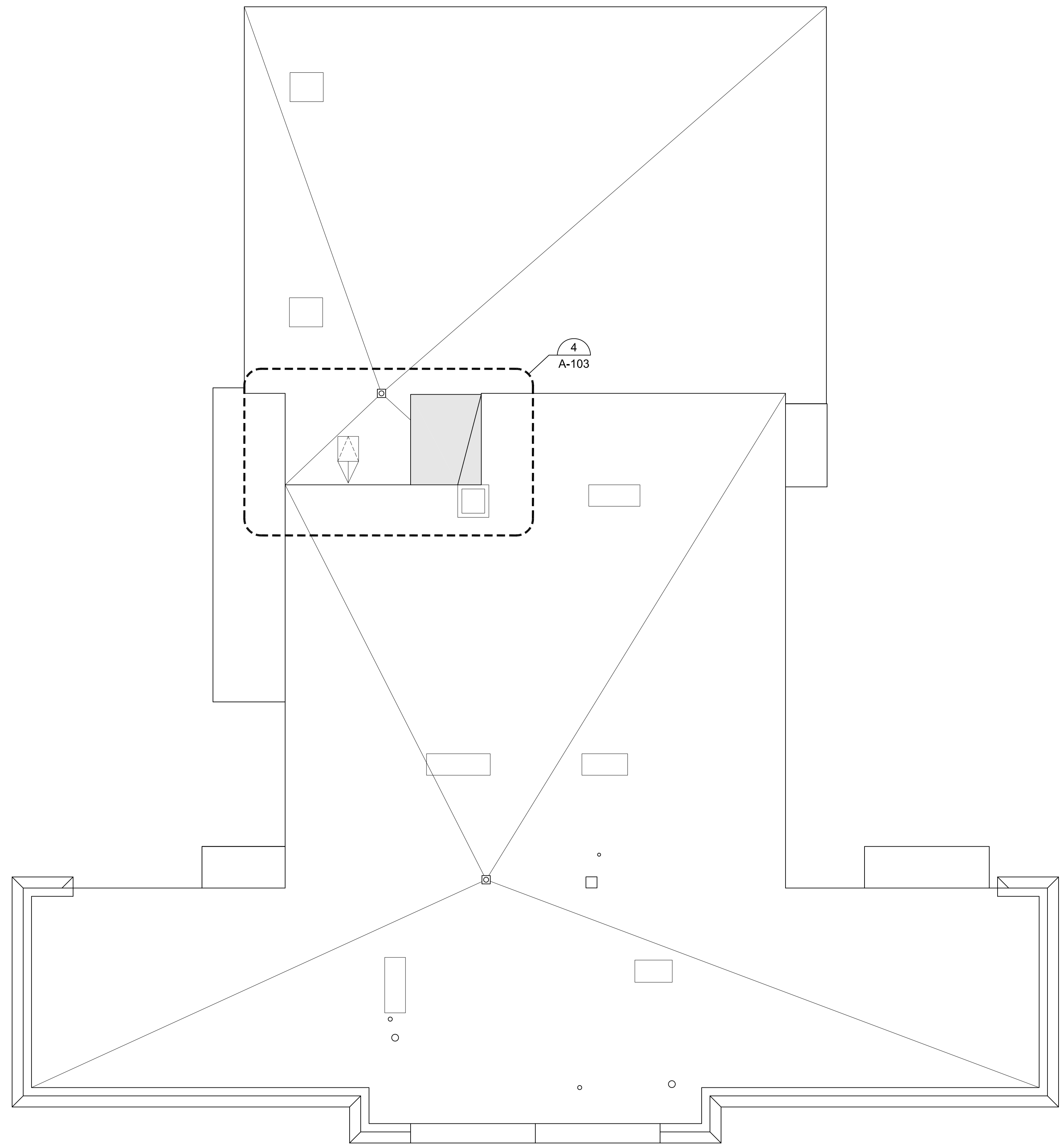
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SCALE	1/8" = 1'-0"
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:  
SHEET TITLE:  
**NEW SECOND FLOOR  
AND ROOF PLANS**

DRAWING NO.  
**A-102**



**1 NEW SECOND FLOOR PLAN**  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET



**2 NEW ROOF PLAN**  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET



**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

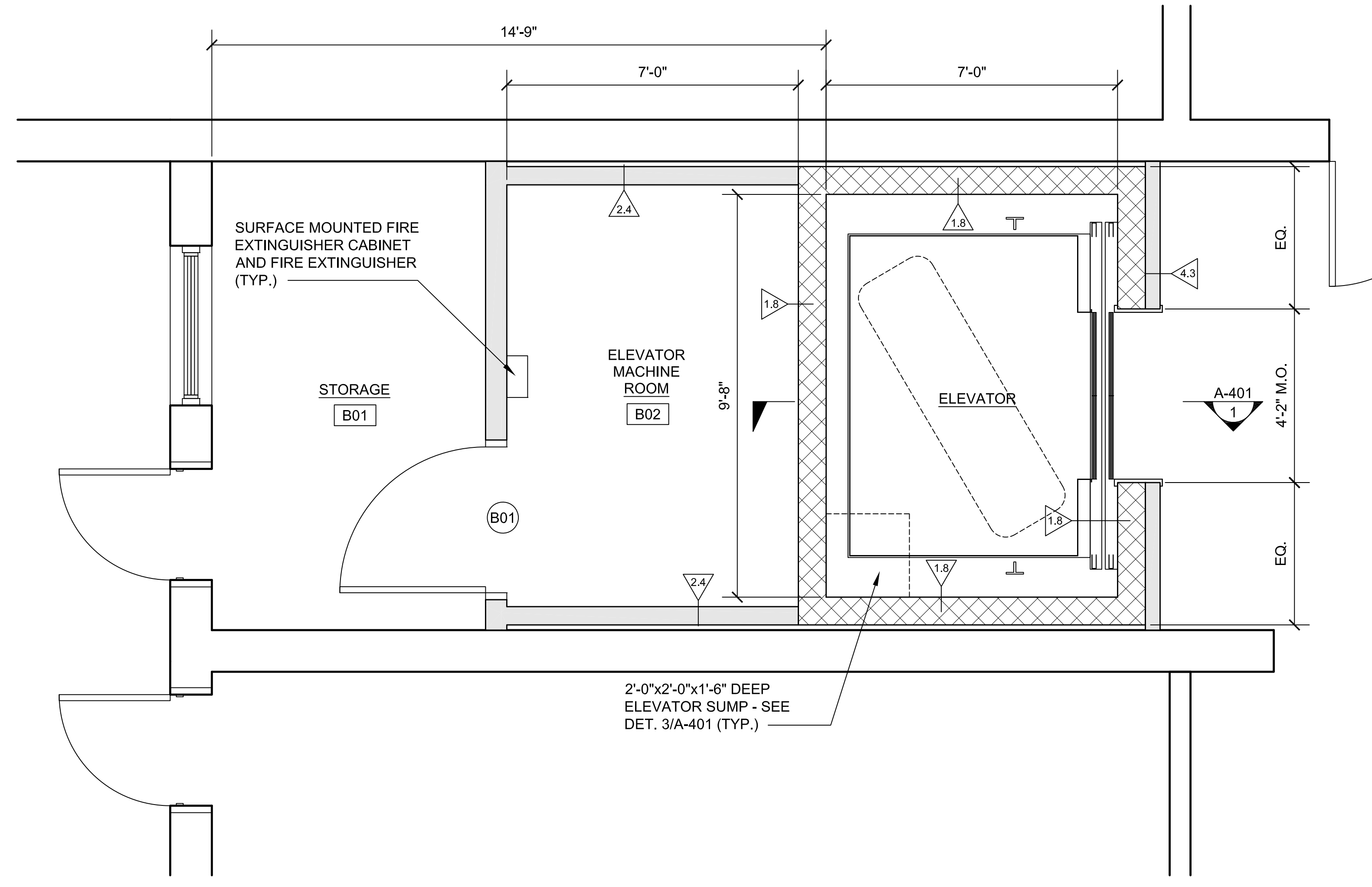
OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

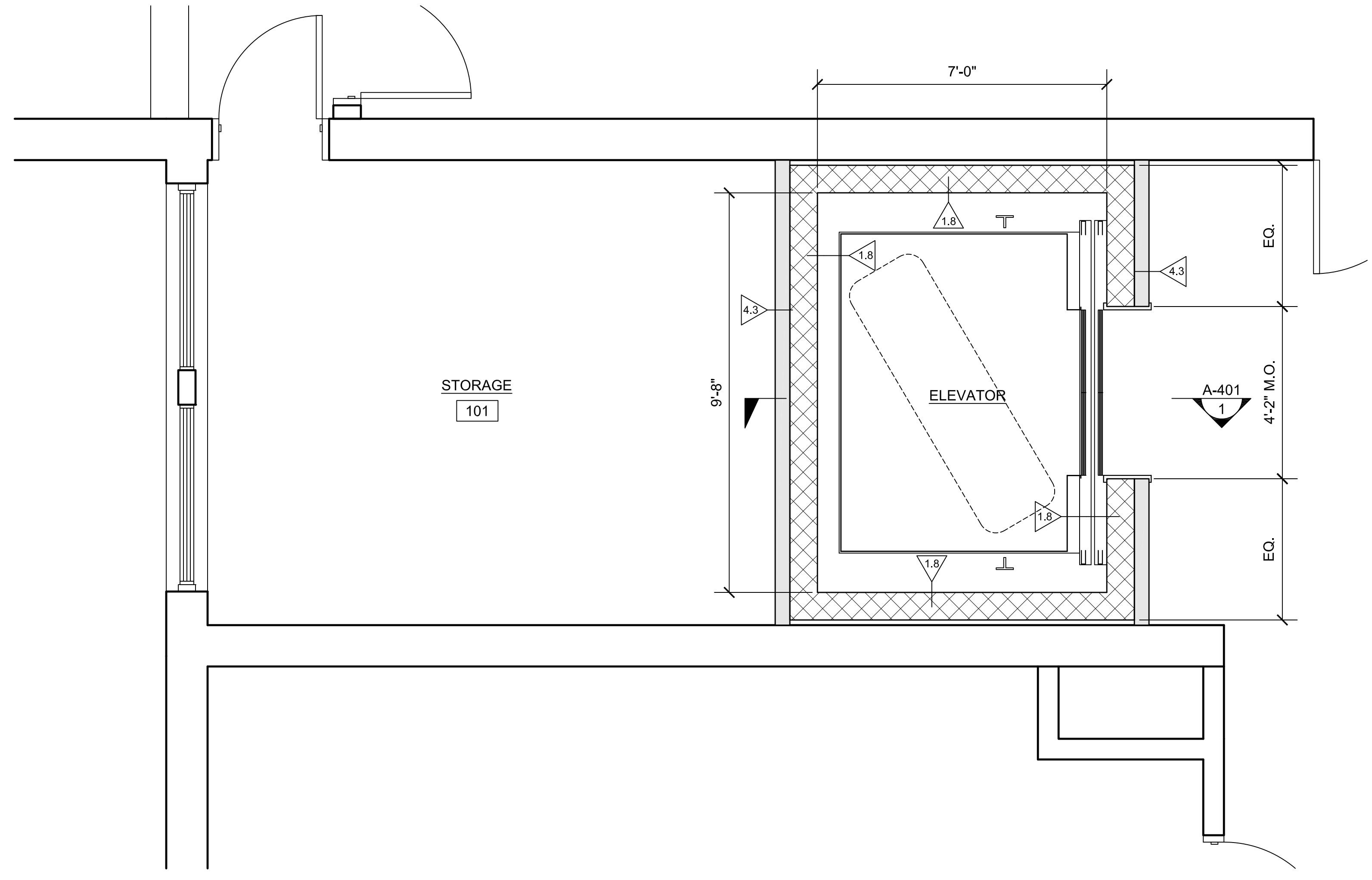
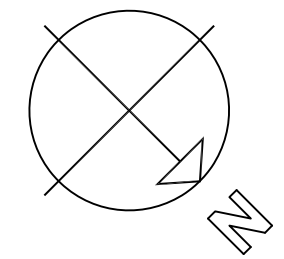
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

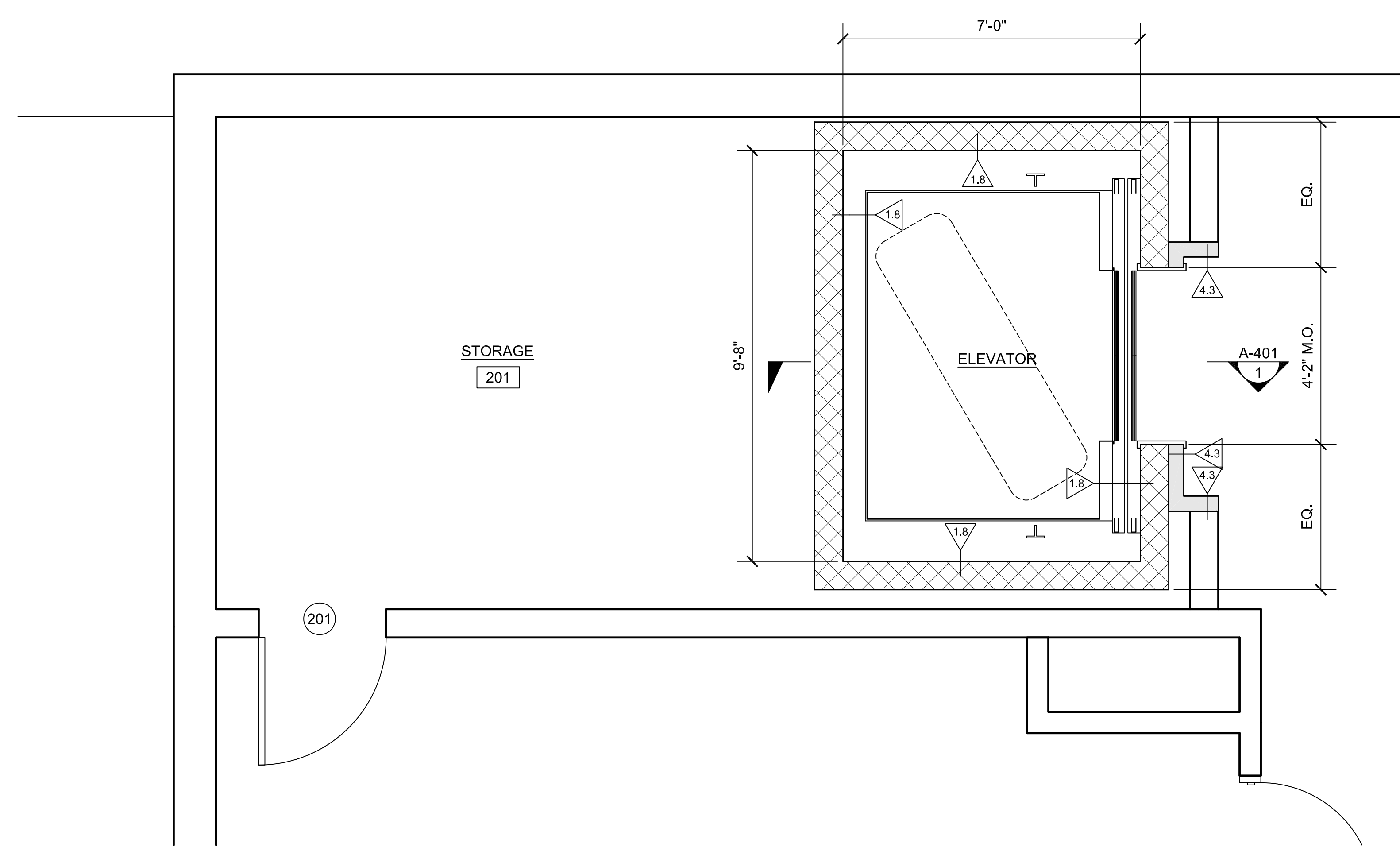
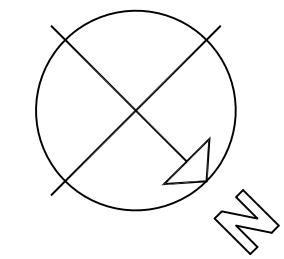
ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



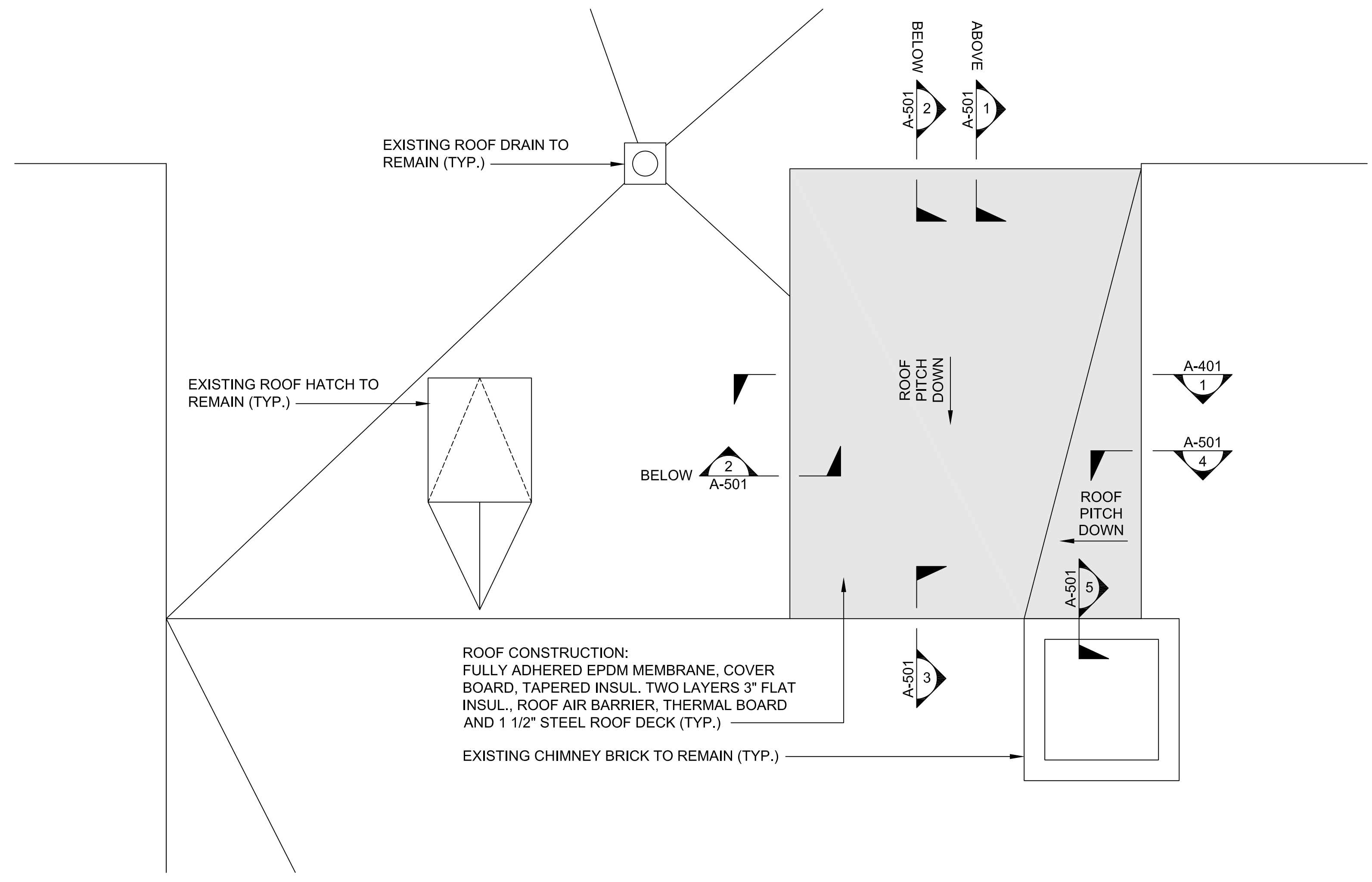
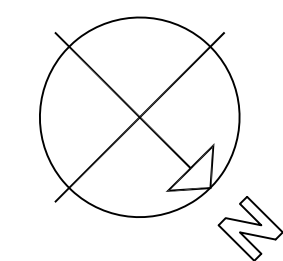
**1 NEW ENLARGED BASEMENT PLAN**  
SCALE: 1/2"=1'-0"



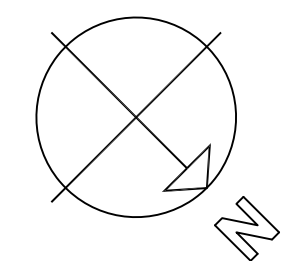
**2 NEW ENLARGED FIRST FLOOR PLAN**  
SCALE: 1/2"=1'-0"



**3 NEW ENLARGED SECOND FLOOR PLAN**  
SCALE: 1/2"=1'-0"



**4 NEW ENLARGED ROOF PLAN**  
SCALE: 1/2"=1'-0"



STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/2" = 1'-0"
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:

SHEET TITLE:

**NEW ENLARGED  
FLOOR PLANS**

DRAWING NO.

**A-103**





**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

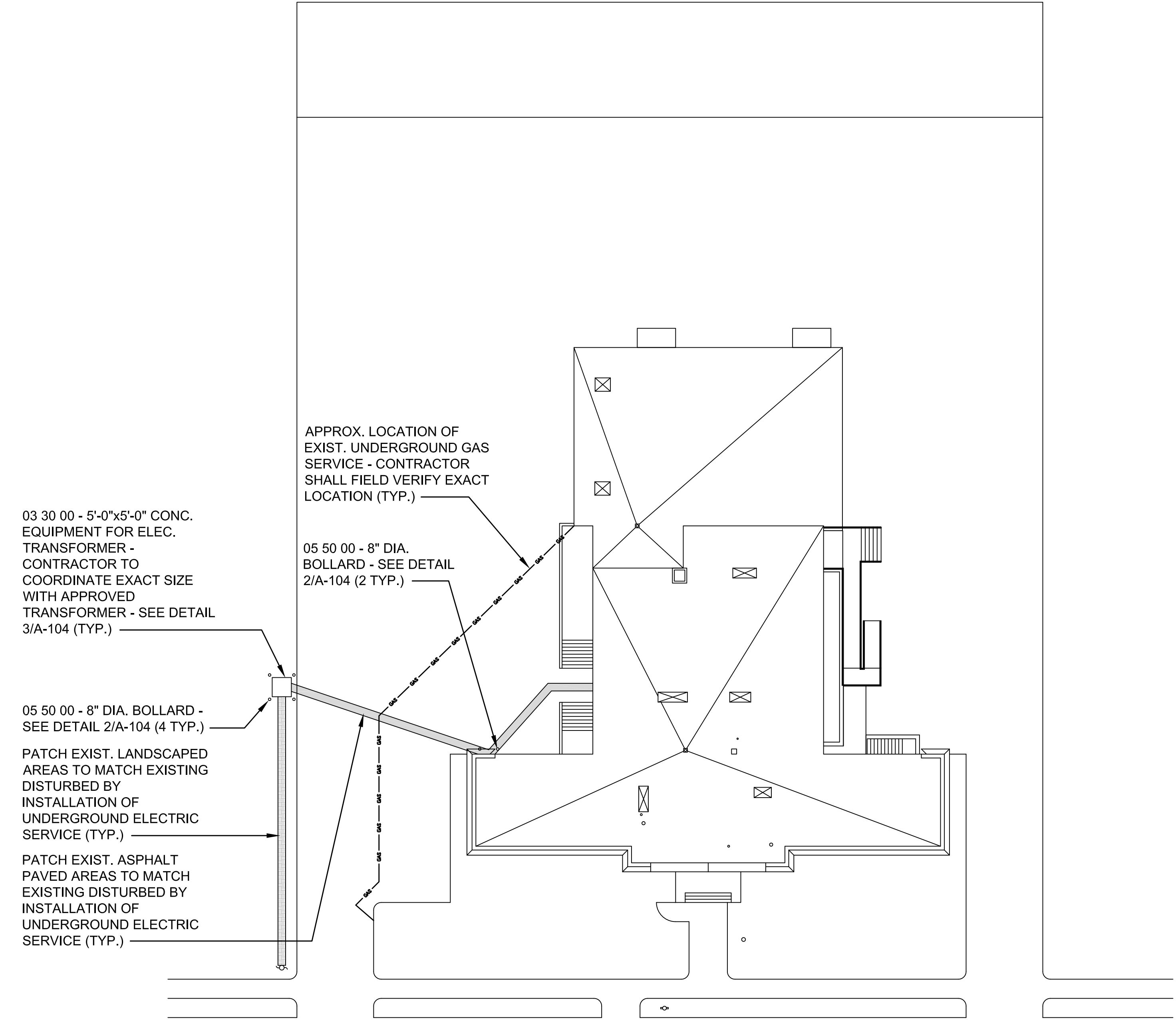
OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

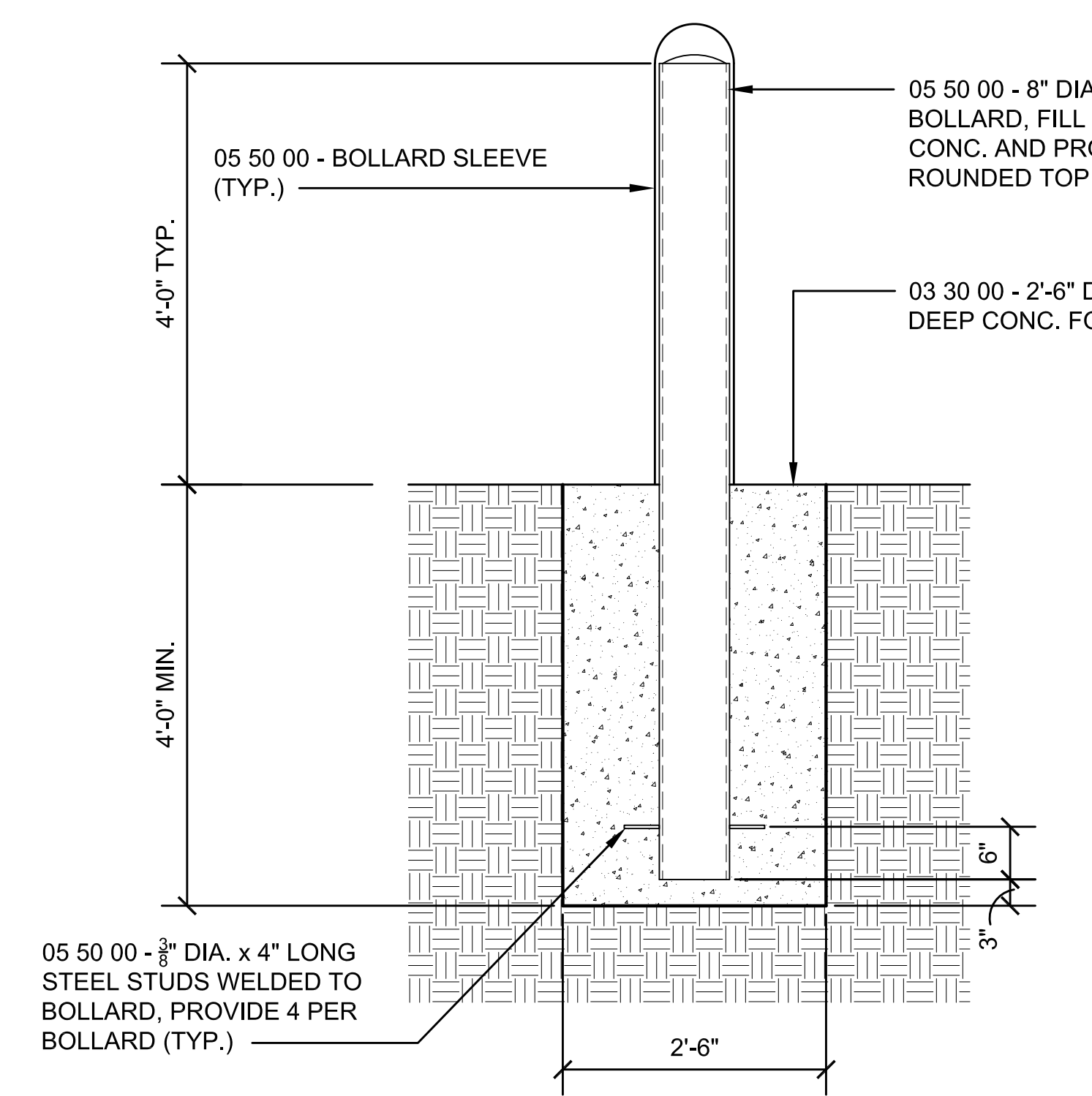
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

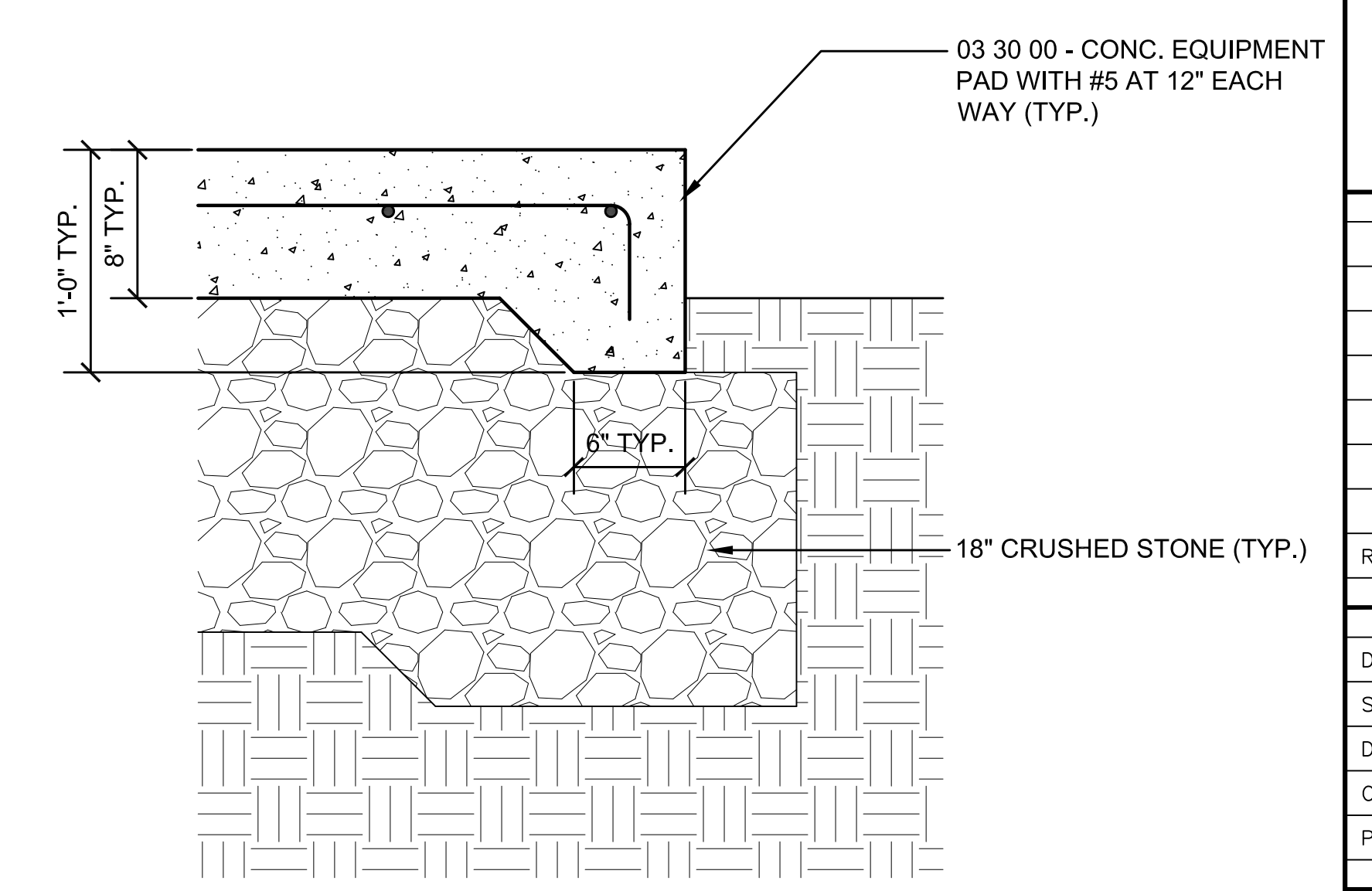
ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



**1 SITEWORK PLAN**  
SCALE: 1" = 20'  
0 20 40 60 FEET



**2 TYPICAL EXTERIOR BOLLARD DETAIL**  
SCALE: 3/4" = 1'-0"  
0 1 2 3 4 FEET



**3 CONCRETE EQUIPMENT PAD DETAIL**  
SCALE: 1 1/2" = 1'-0"  
0 1 2 FEET

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	AS NOTED
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:

SHEET TITLE:

**SITWORK LAYOUT AND DETAILS**

DRAWING NO.

**A-104**



**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109

STAMP

REV	DATE	DESCRIPTION

DATE 1/11/23

SCALE 1/8" = 1'-0"

DRAWN BY MTV

CHECKED BY GKY

PROJECT NO. 22009

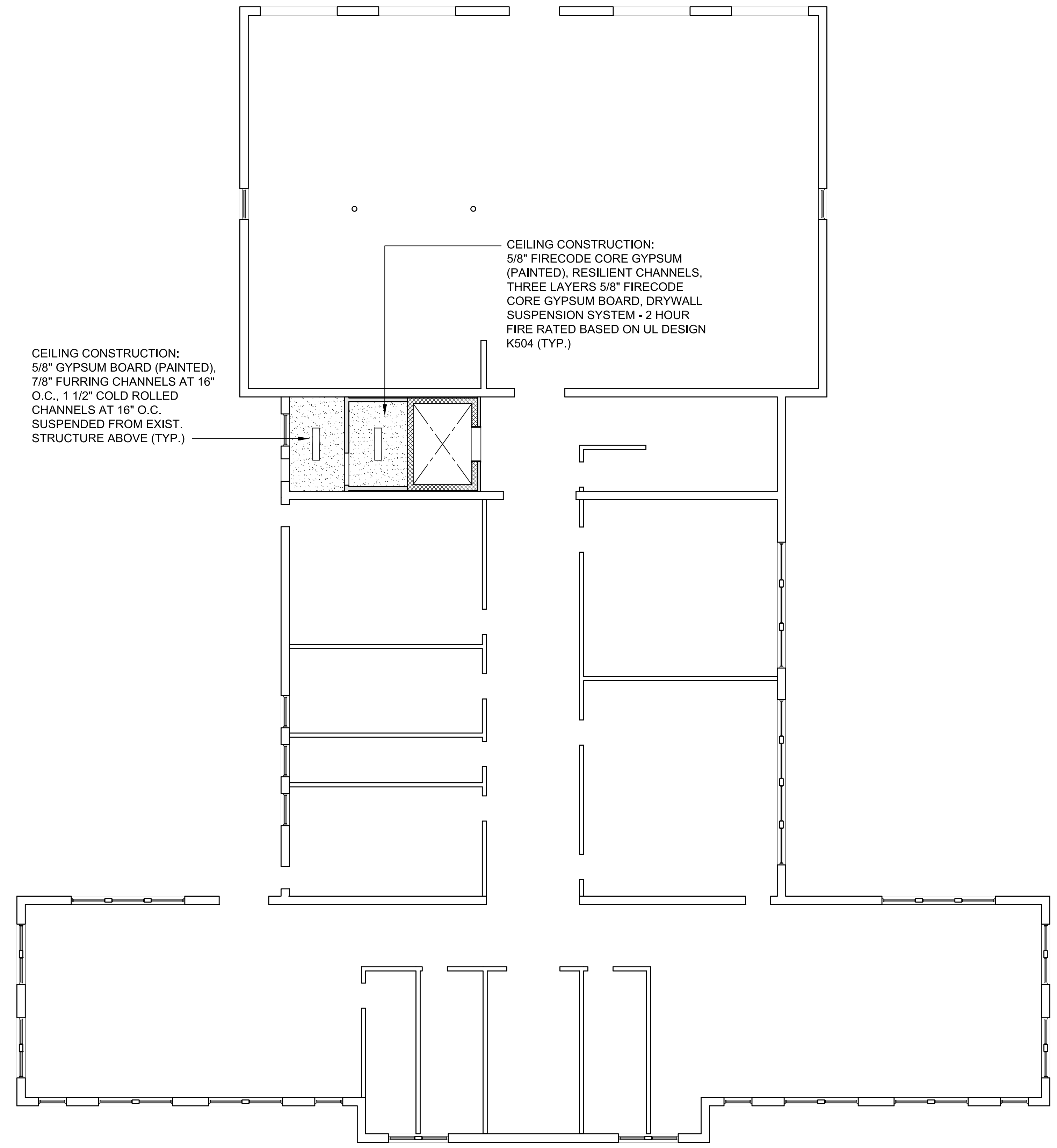
BUILDING:

SHEET TITLE:

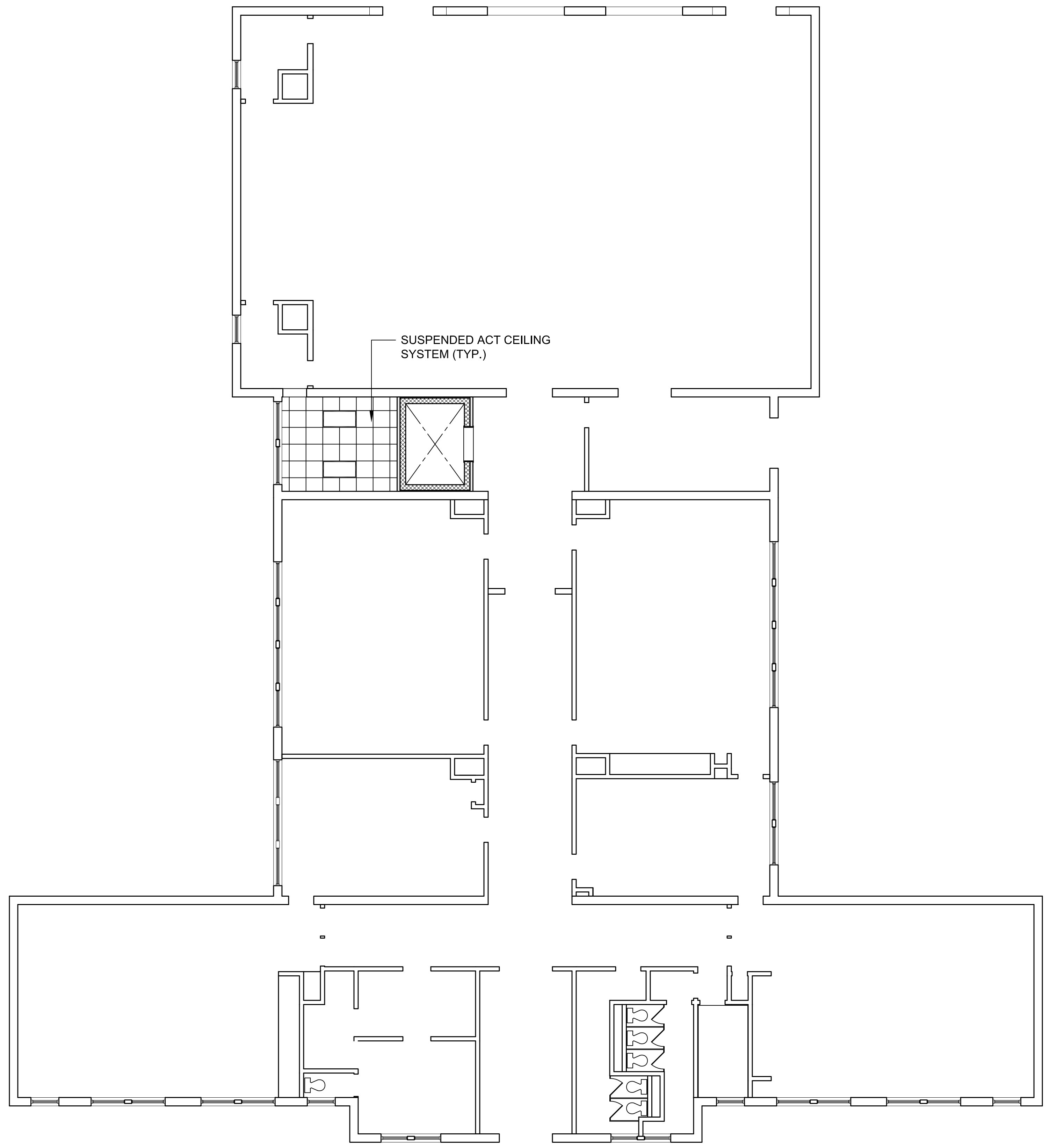
**NEW BASEMENT AND  
FIRST FLOOR  
REFLECTED CEILING  
PLANS**

DRAWING NO.

**A-201**



**1 NEW BASEMENT REFLECTED CEILING PLAN**  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET



**2 NEW FIRST FLOOR REFLECTED CEILING PLAN**  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET





**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

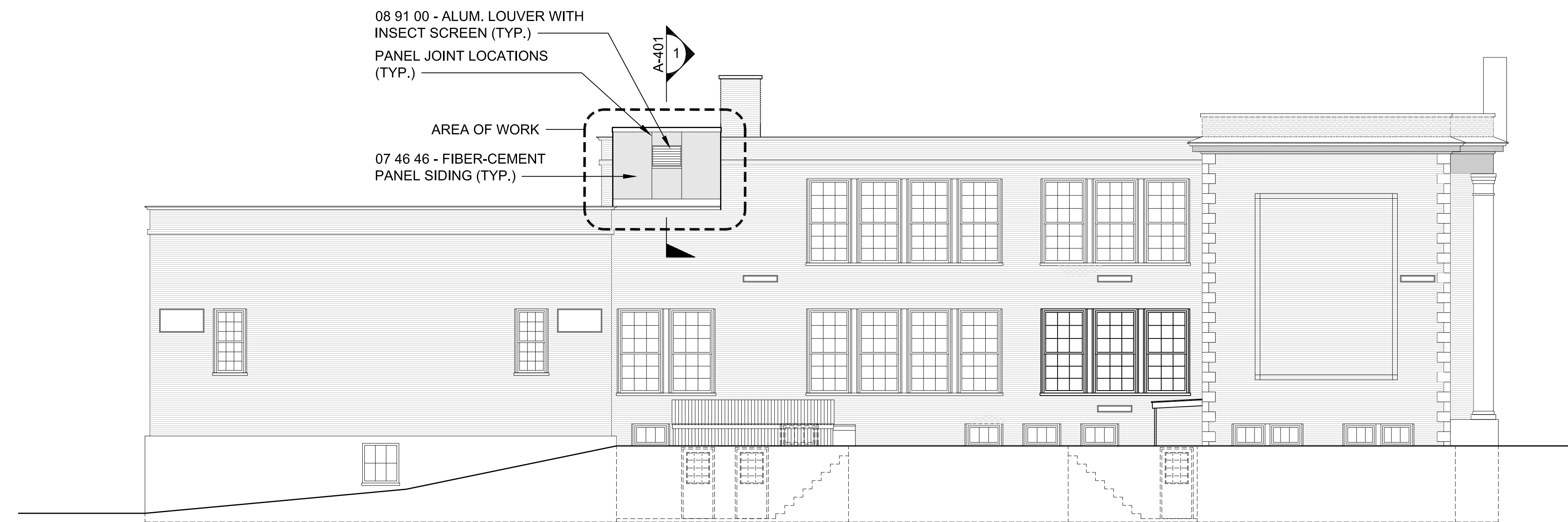
OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

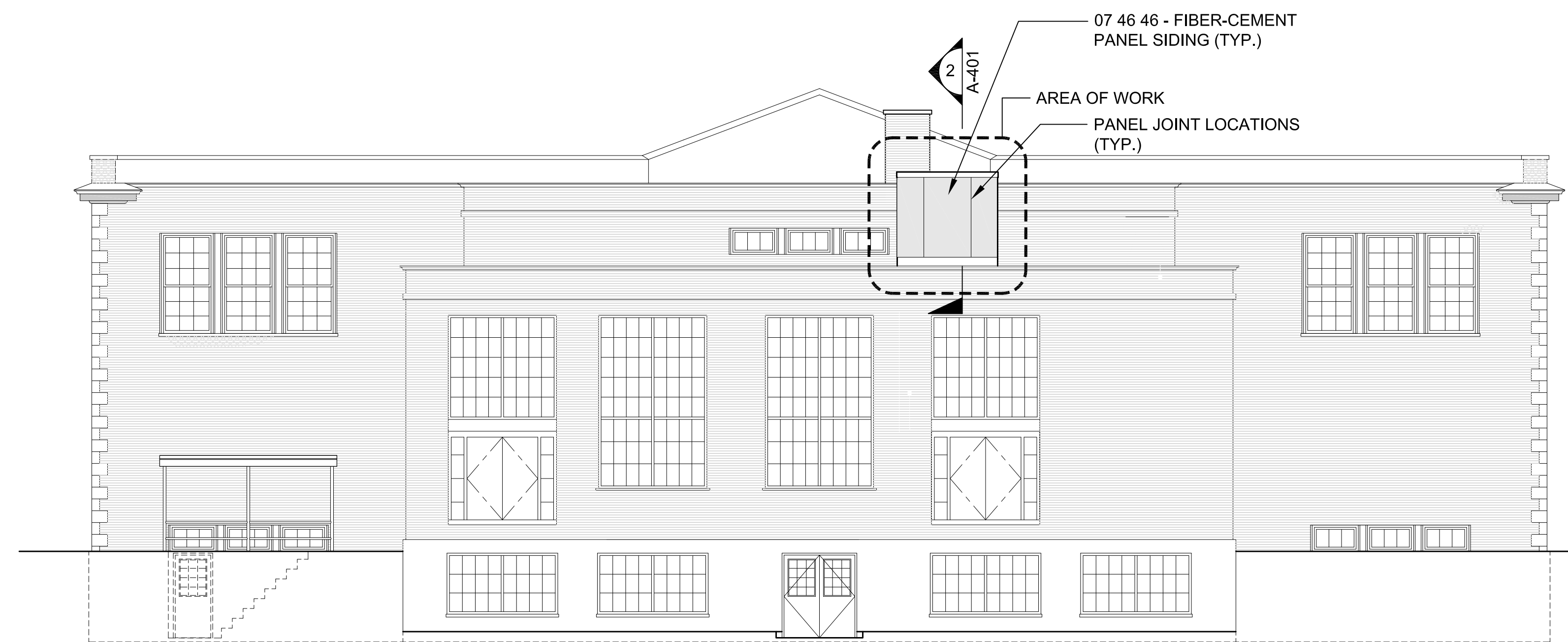
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



**1** **SOUTHEAST EXTERIOR ELEVATION**  
SCALE: 1/8"=1'-0" 0 5 10 15 FEET



**2** **SOUTHWEST EXTERIOR ELEVATION**  
SCALE: 1/8"=1'-0" 0 5 10 15 FEET

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/8" = 1'-0"
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:

SHEET TITLE:

**EXTERIOR  
ELEVATIONS**

DRAWING NO.

**A-301**



**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/2" = 1'-0"
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:

SHEET TITLE:

**ELEVATOR SECTIONS**

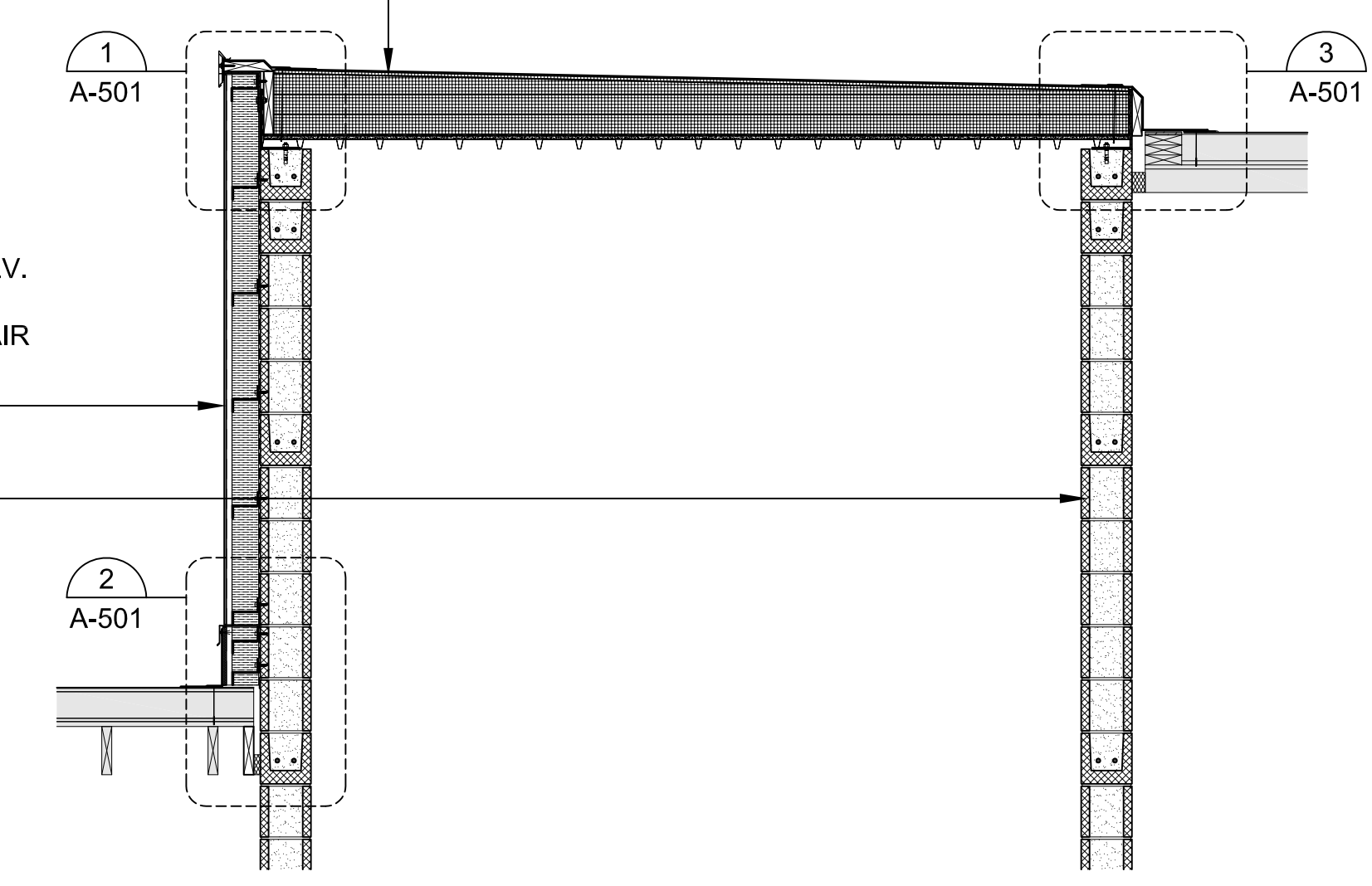
DRAWING NO.

**A-401**

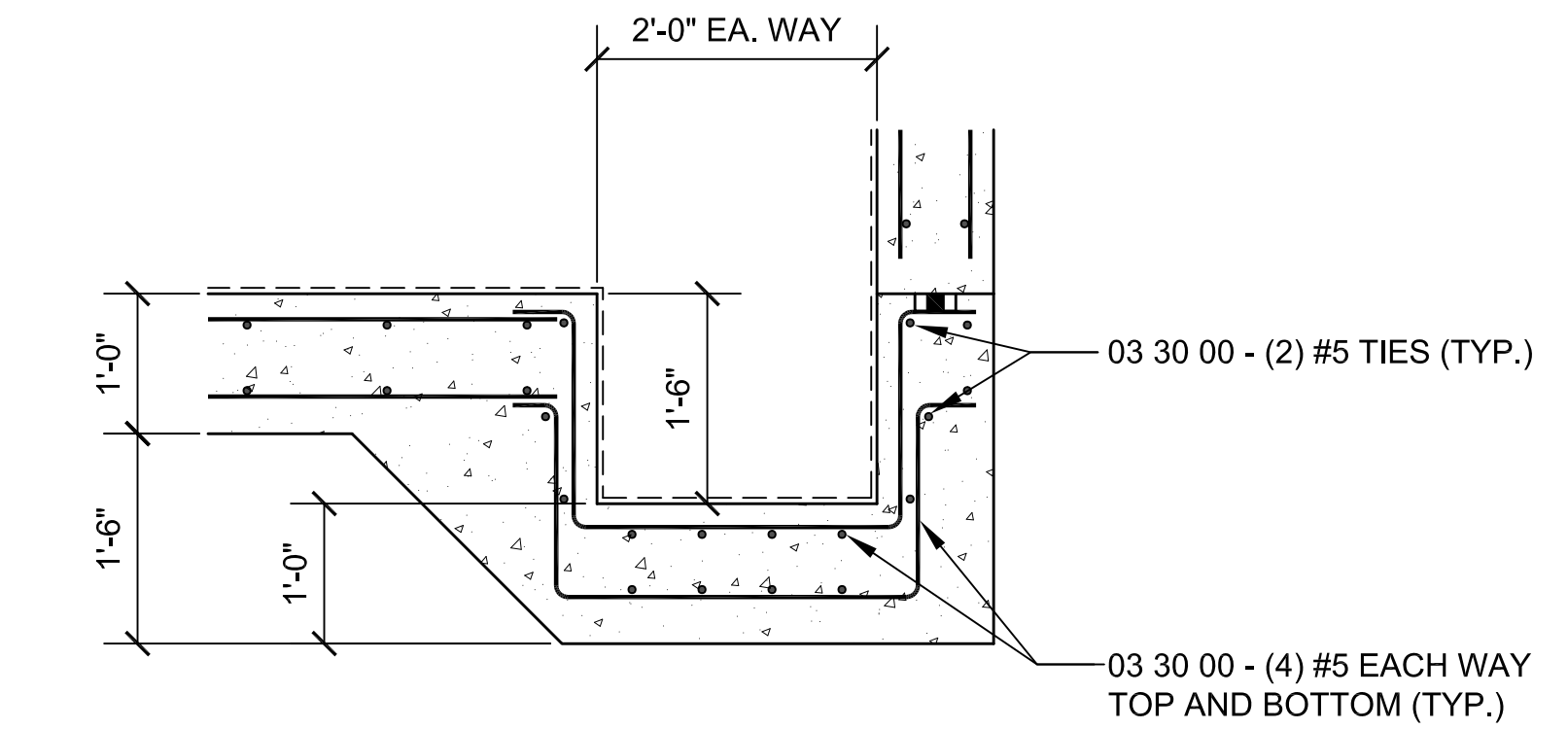
ROOF CONSTRUCTION:  
FULLY ADHERED EPDM MEMBRANE, COVER BOARD, TAPERED INSUL. TWO LAYERS 3" FLAT INSUL., ROOF AIR BARRIER, THERMAL BOARD AND 1 1/2" STEEL ROOF DECK (TYP.)

EXTERIOR WALL CONSTRUCTION:  
FIBER-CEMENT SIDING PANELS, 1" DEEP GALV. VERT. Z-FURRING, 4" DEEP FIBERGLASS Z-GIRTS, 4" MINERAL WOOL CAVITY INSUL., AIR BARRIER, 8" NOM. CMU ELEVATOR SHAFT (TYP.)

04 20 01 - 8" NOM. CMU ELEVATOR SHAFT (TYP.)



**2 PARTIAL ELEVATOR SECTION**  
SCALE: 1/2"=1'-0"



**3 ELEVATOR SUMP PIT DETAIL**  
SCALE: 3/4"=1'-0"

05 12 00 - W8x18 HOIST BEAM BEARING ON 8" NOM. CMU BOND BEAM EACH END OF ELEVATOR SHAFT (TYP.)

ROOF CONSTRUCTION:  
FULLY ADHERED EPDM MEMBRANE, COVER BOARD, TAPERED INSUL. TWO LAYERS 3" FLAT INSUL., ROOF AIR BARRIER, THERMAL BOARD AND 1 1/2" STEEL ROOF DECK (TYP.)

EXTERIOR WALL CONSTRUCTION:  
FIBER-CEMENT SIDING PANELS, 1" DEEP GALV. VERT. Z-FURRING, 4" DEEP FIBERGLASS Z-GIRTS, 4" MINERAL WOOL CAVITY INSUL., AIR BARRIER, 8" NOM. CMU ELEVATOR SHAFT (TYP.)

EXIST. ROOF/CEILING SYSTEM TO REMAIN (TYP.)

04 20 01 - 8" NOM. CMU ELEVATOR SHAFT (TYP.)

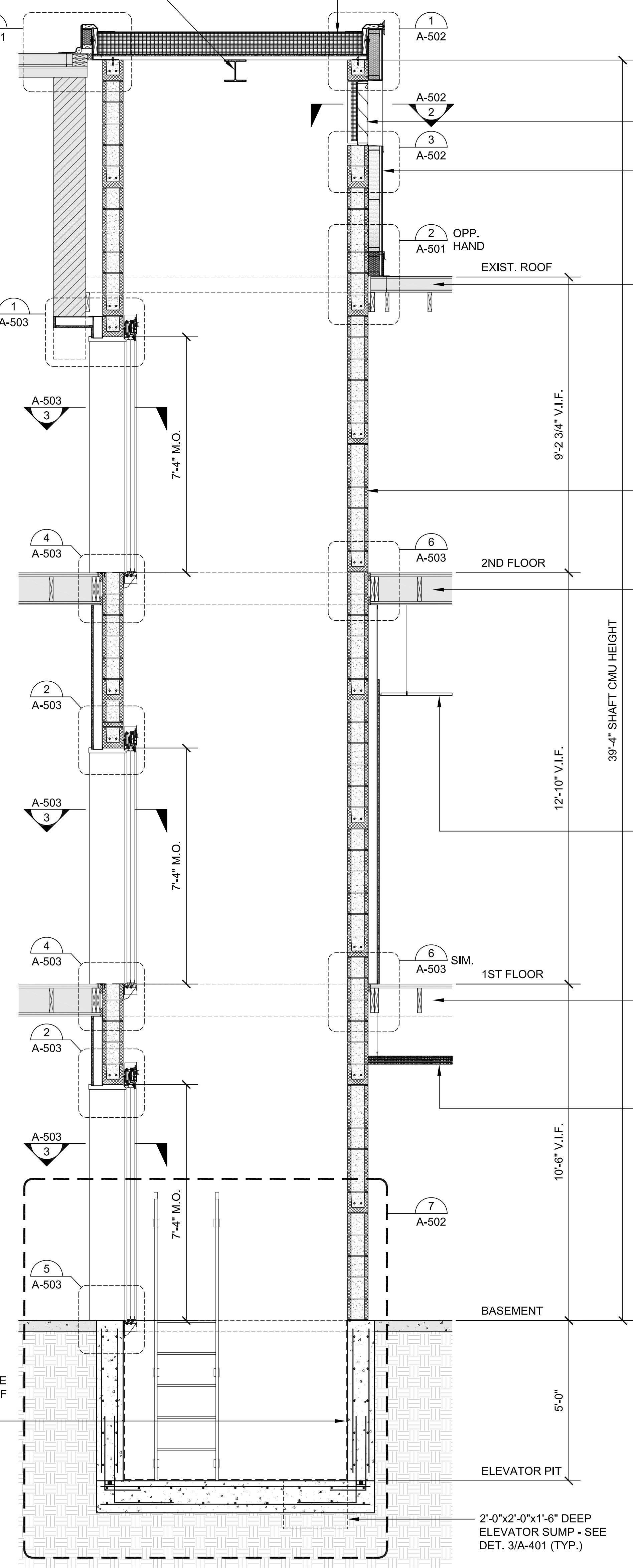
EXIST. FLOOR/CEILING SYSTEM TO REMAIN (TYP.)

09 51 01 - SUSPENDED CEILING SYSTEM (TYP.)

EXIST. FLOOR/CEILING SYSTEM TO REMAIN (TYP.)

CEILING CONSTRUCTION:  
5/8" FIRECODE CORE GYPSUM (PAINTED), RESILIENT CHANNELS, THREE LAYERS 5/8" FIRECODE CORE GYPSUM BOARD, DRYWALL SUSPENSION SYSTEM - 2 HOUR FIRE RATED BASED ON UL DESIGN K504 (TYP.)

07 14 00 - DASHED LINE INDICATES INSTALL WATERPROOF MEMBRANE ON INTERIOR SURFACE OF ELEVATOR PIT AND SUMP PIT (TYP.)



**1 ELEVATOR SECTION**  
SCALE: 1/2"=1'-0"

2'-0"x2'-0"x1'-6" DEEP ELEVATOR SUMP - SEE DET. 3/A-401 (TYP.)





**TOWN OF GROTON**

**PRESCOTT SCHOOL ELEVATOR INSTALLATION**

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109

STAMP

REV	DATE	DESCRIPTION

DATE 1/11/23

SCALE AS NOTED

DRAWN BY MTV

CHECKED BY GKY

PROJECT NO. 22009

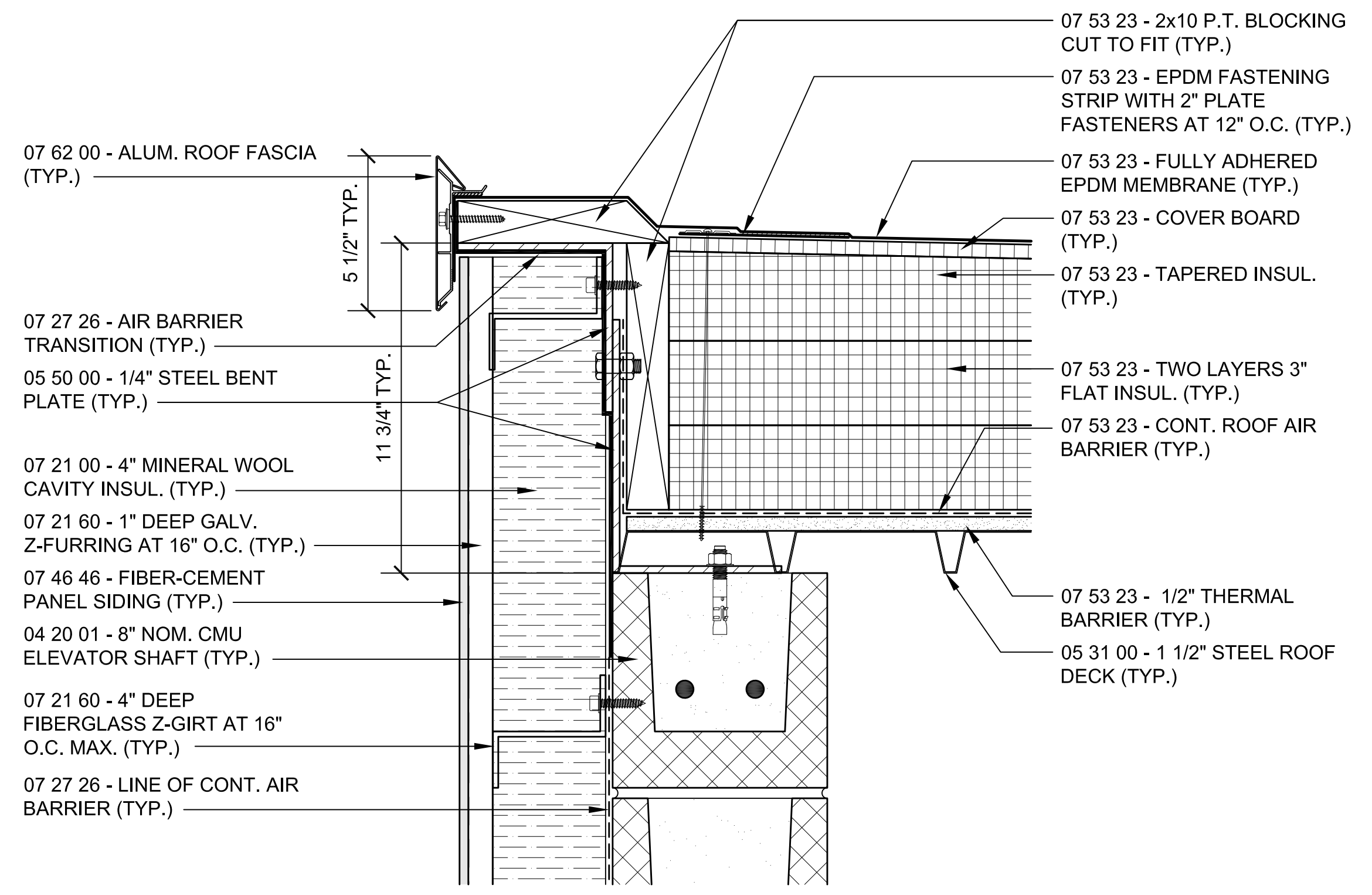
BUILDING:

SHEET TITLE:

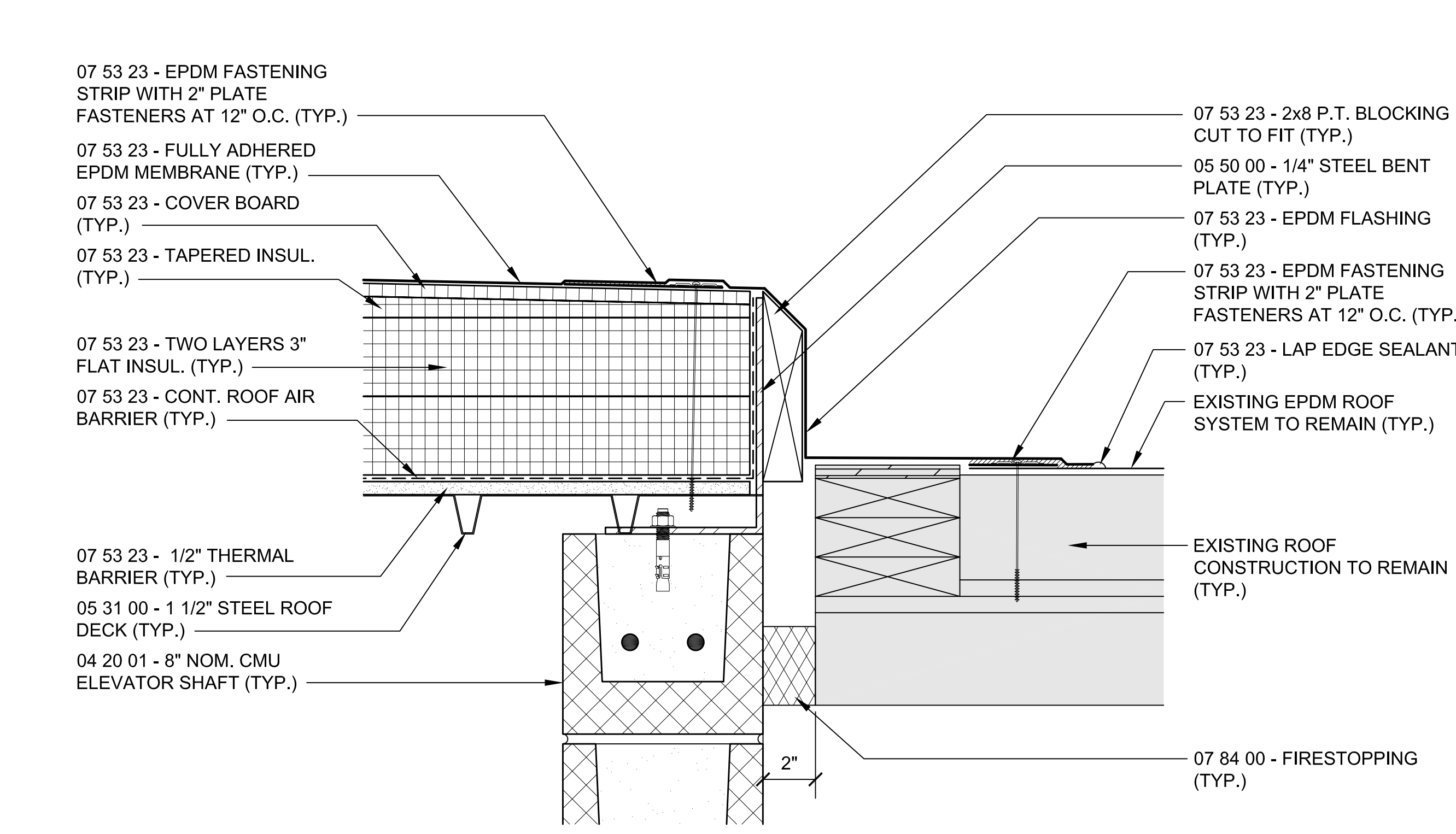
**DETAILS SHEET 1**

DRAWING NO.

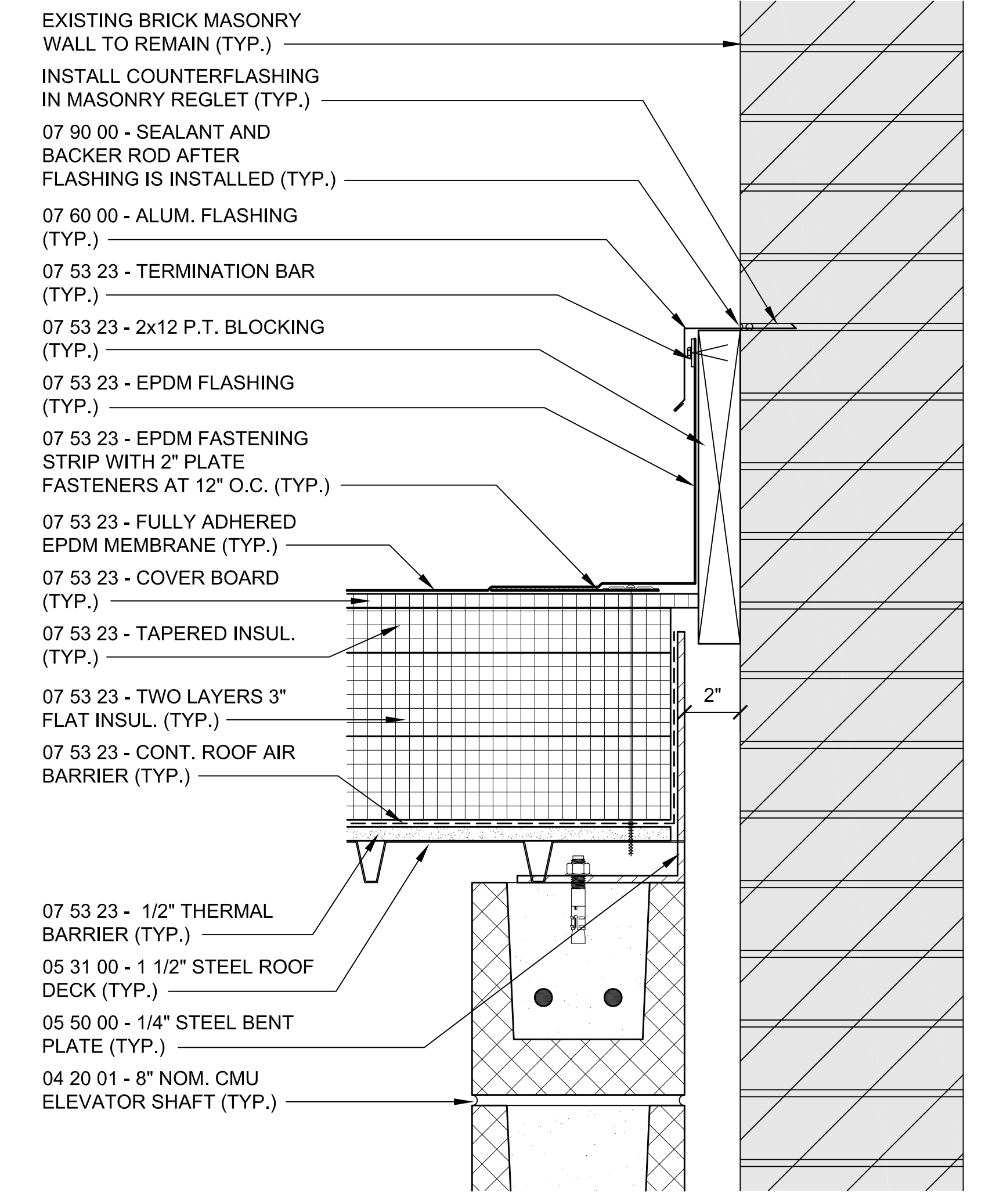
**A-501**



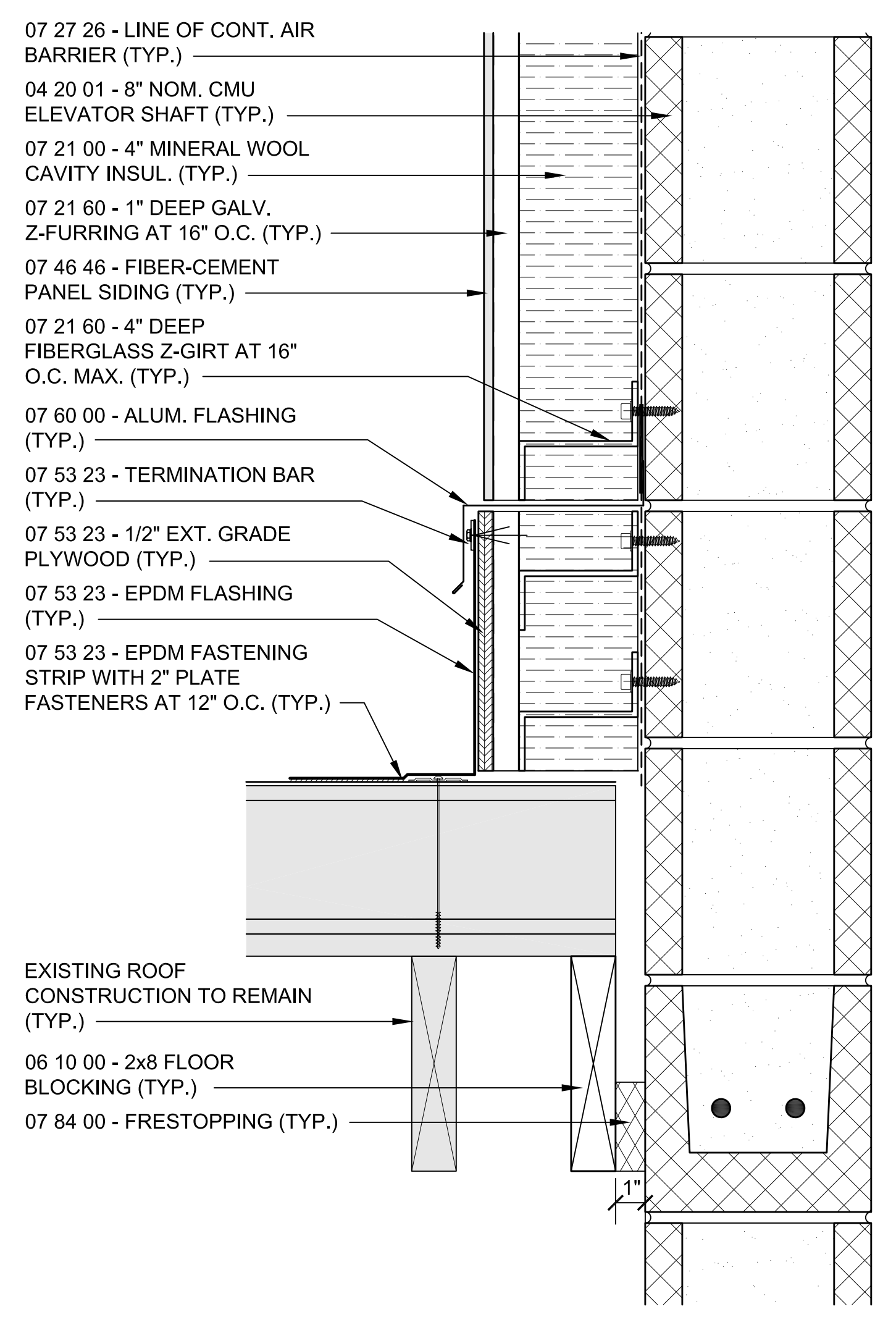
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SCALE: 3"=1'-0"



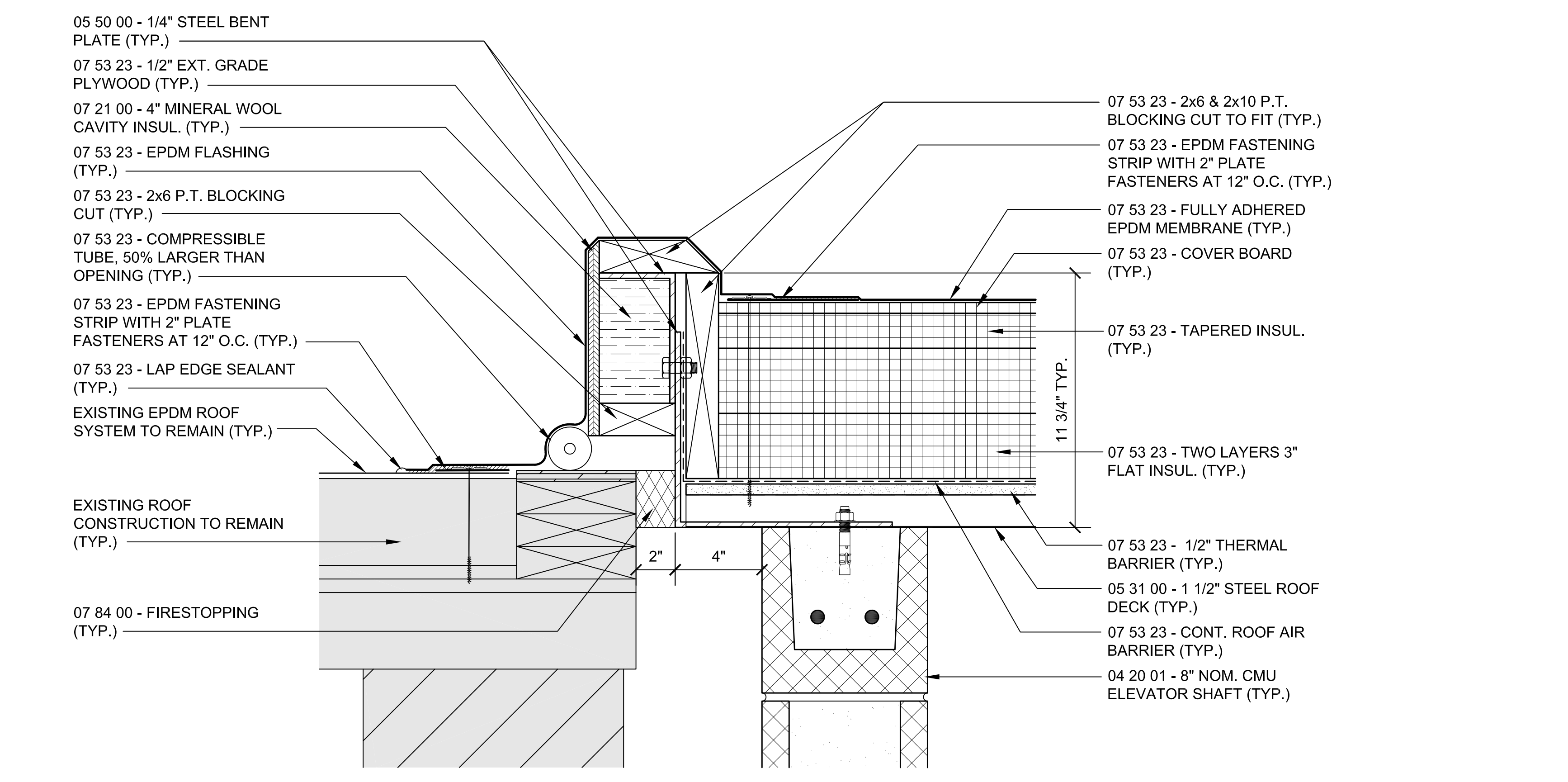
**3 ROOF EDGE DETAIL**  
SCALE: 3"=1'-0"



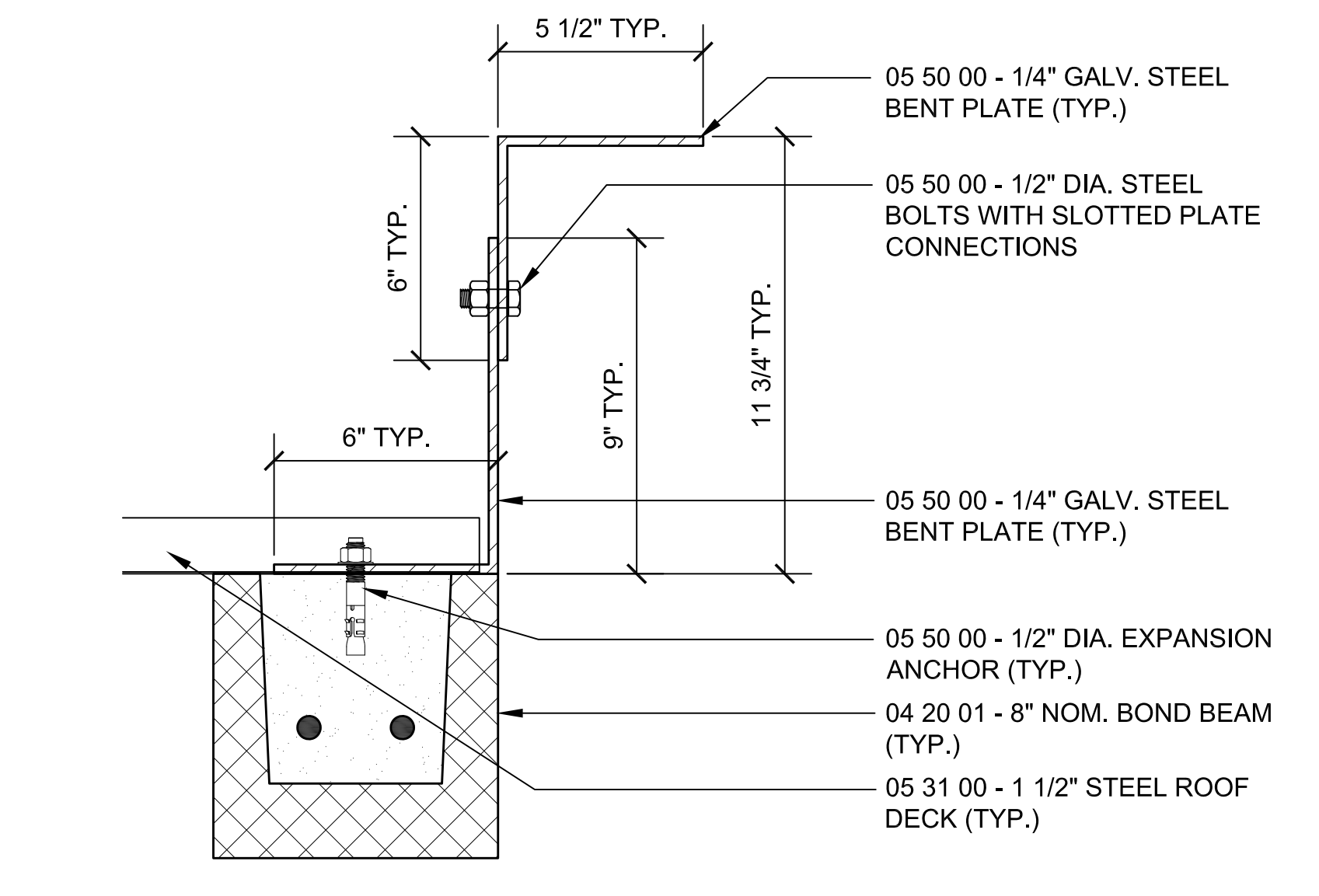
**5 ROOF CURB DETAIL**  
SCALE: 3"=1'-0"



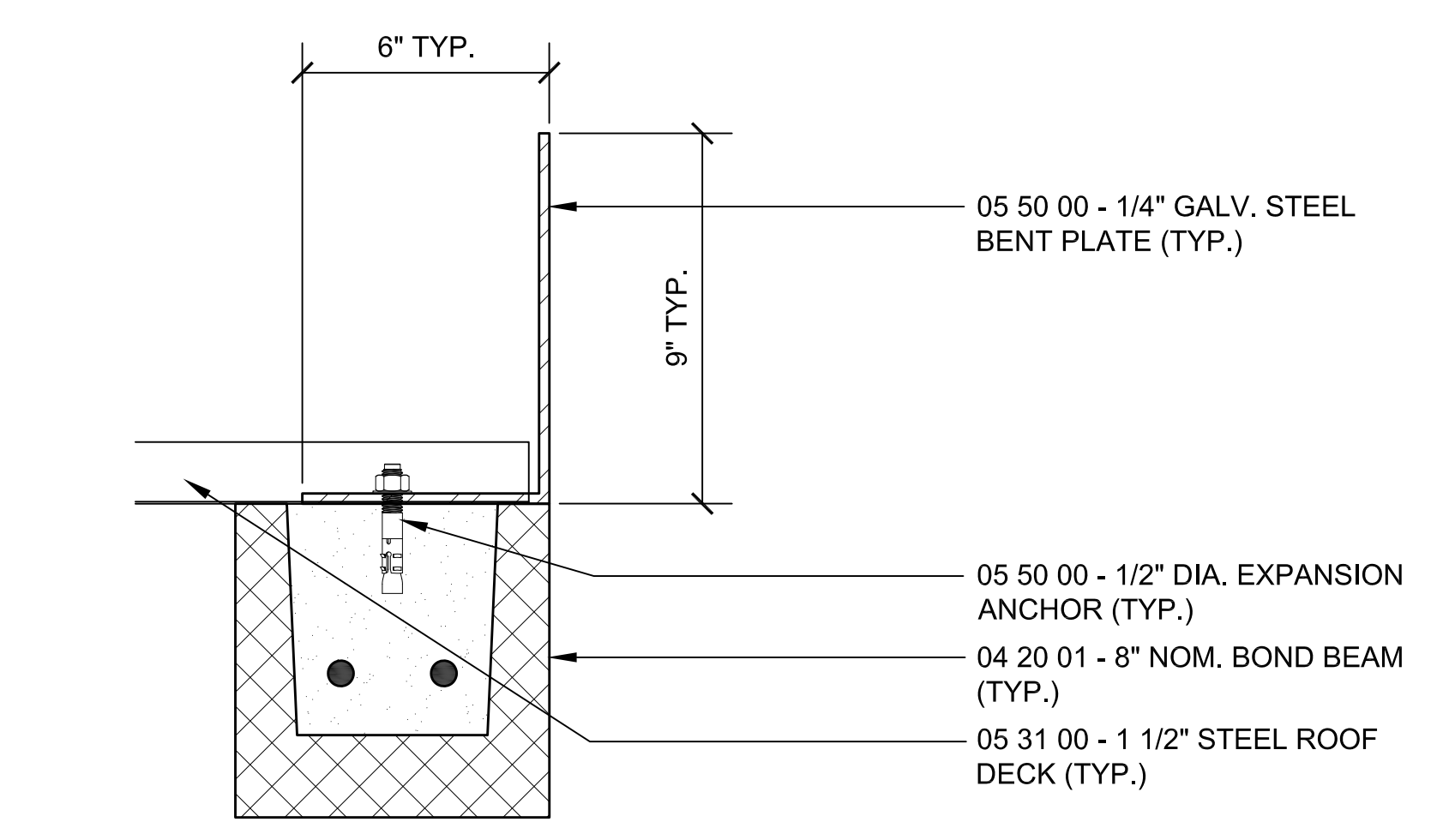
**2 ROOF CURB DETAIL**  
SCALE: 3"=1'-0"



**4 ROOF EDGE DETAIL**  
SCALE: 3"=1'-0"



**6 ROOF EDGE STEEL DETAIL**  
SCALE: 3"=1'-0"



**7 ROOF EDGE STEEL DETAIL**  
SCALE: 3"=1'-0"



**TOWN OF GROTON**

**PRESCOTT SCHOOL ELEVATOR INSTALLATION**

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

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22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
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CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	AS NOTED
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

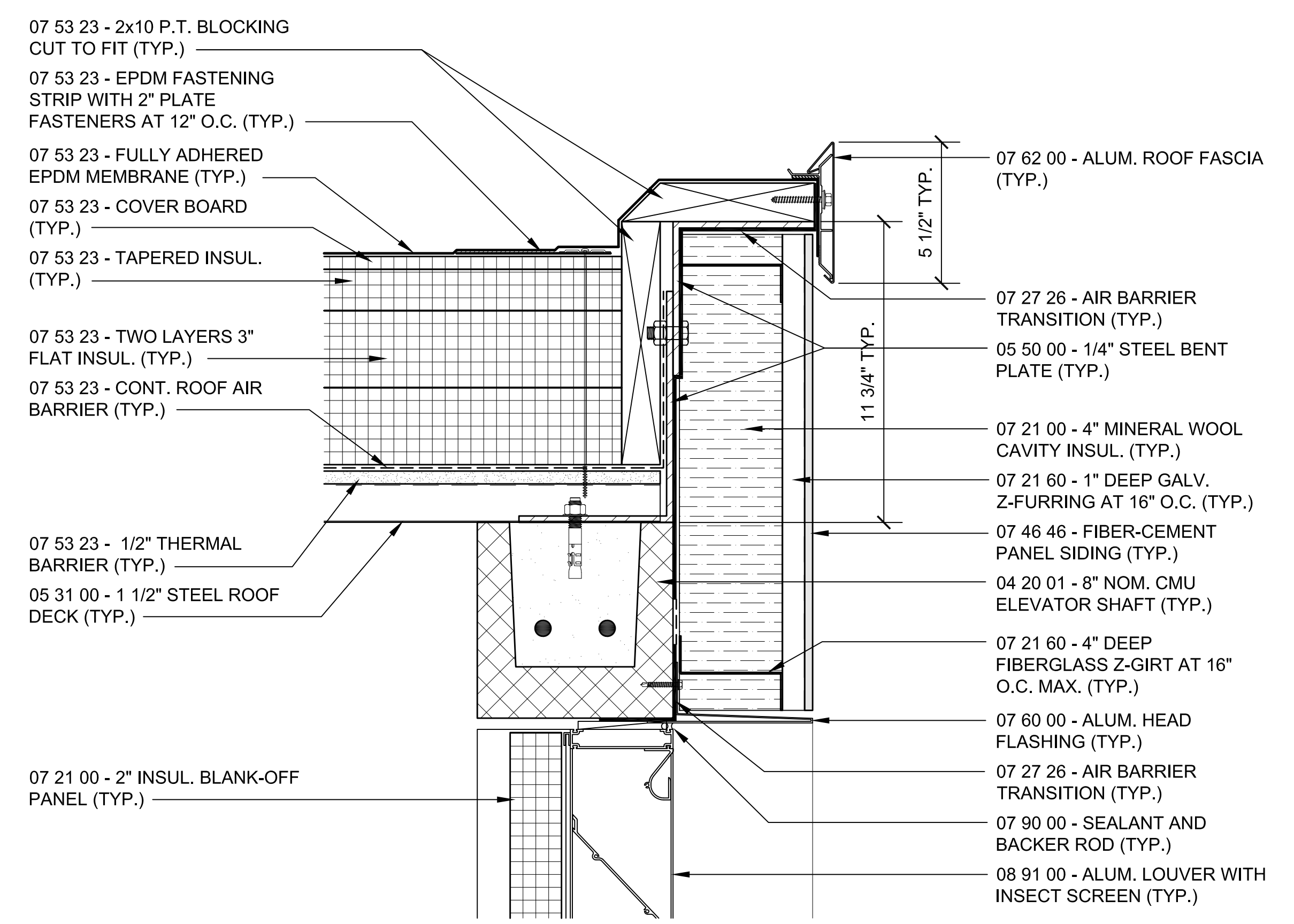
BUILDING:

SHEET TITLE:

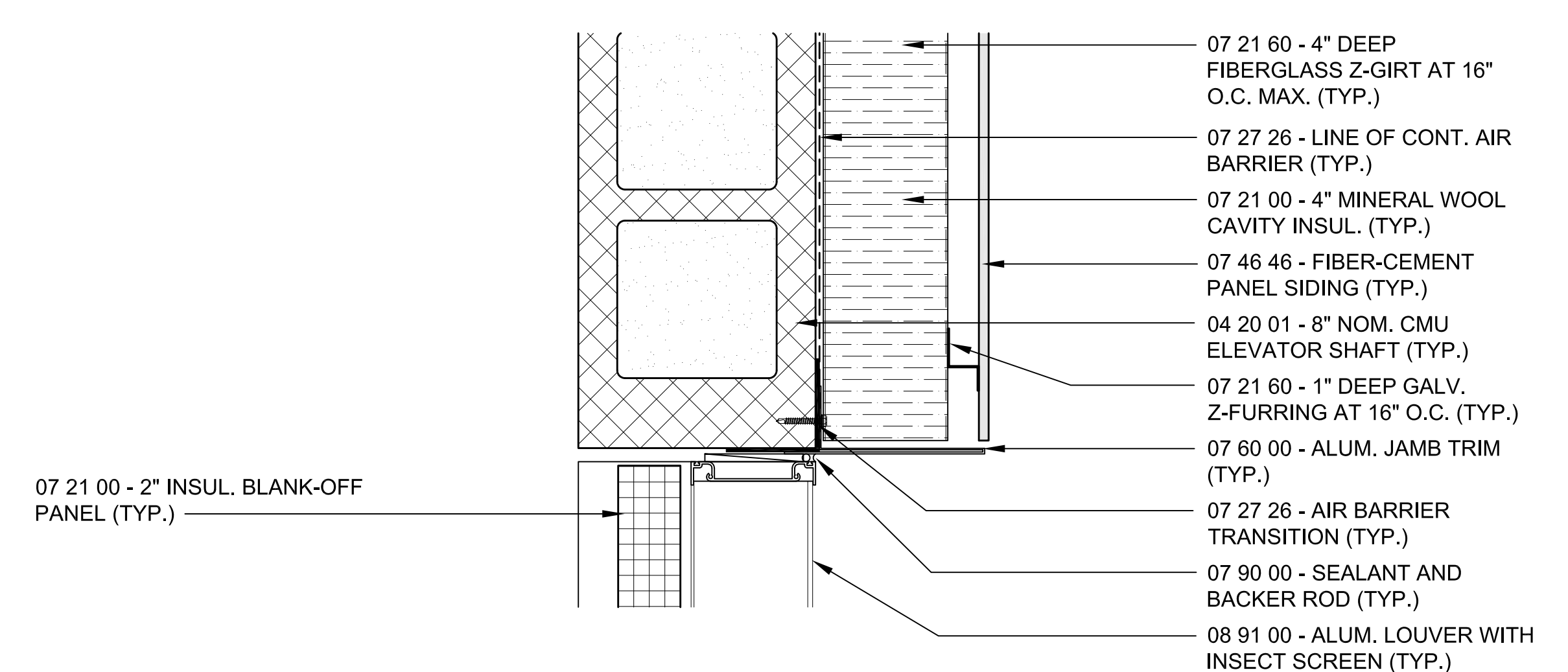
**DETAILS SHEET 2**

DRAWING NO.

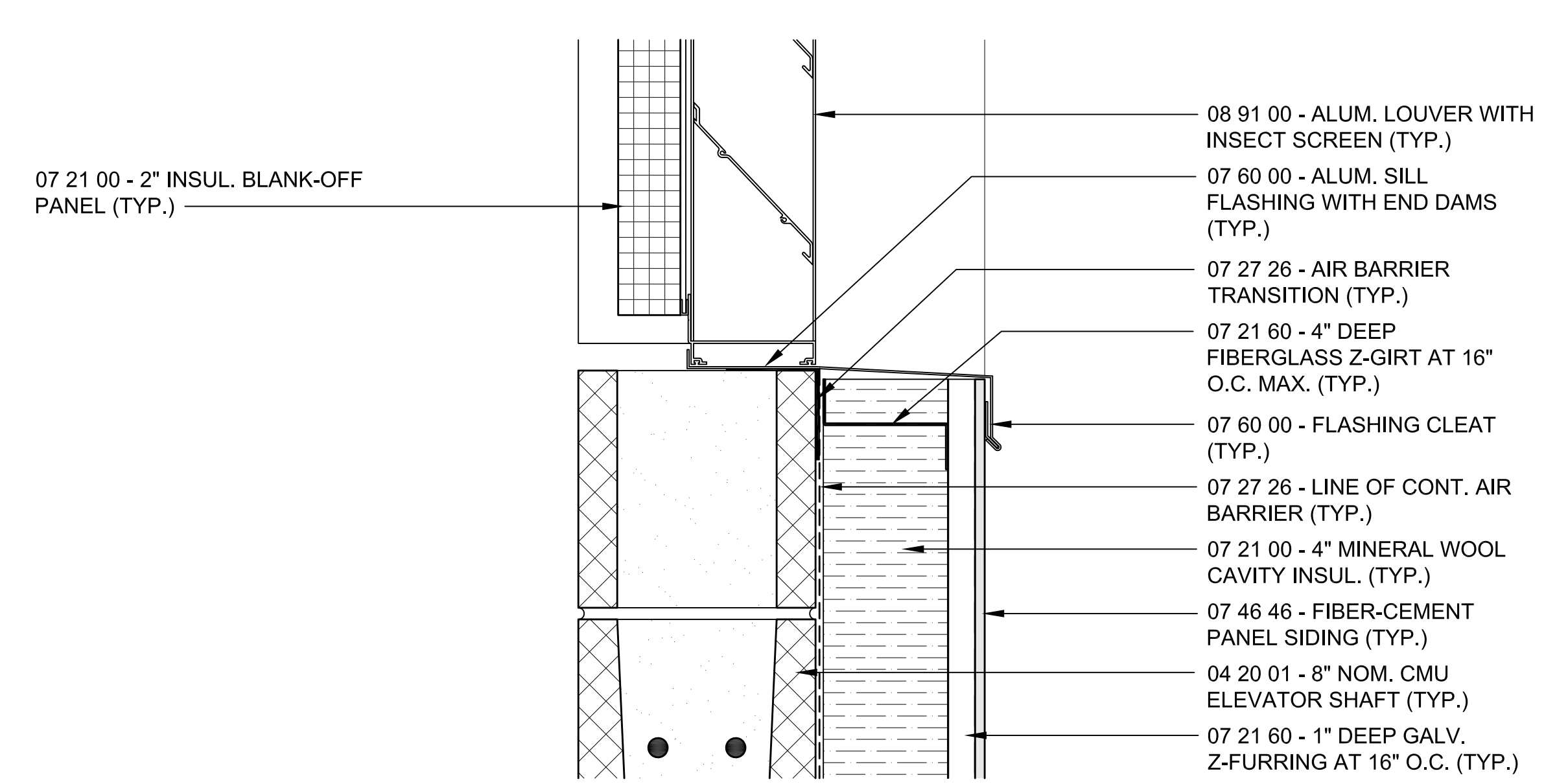
**A-502**



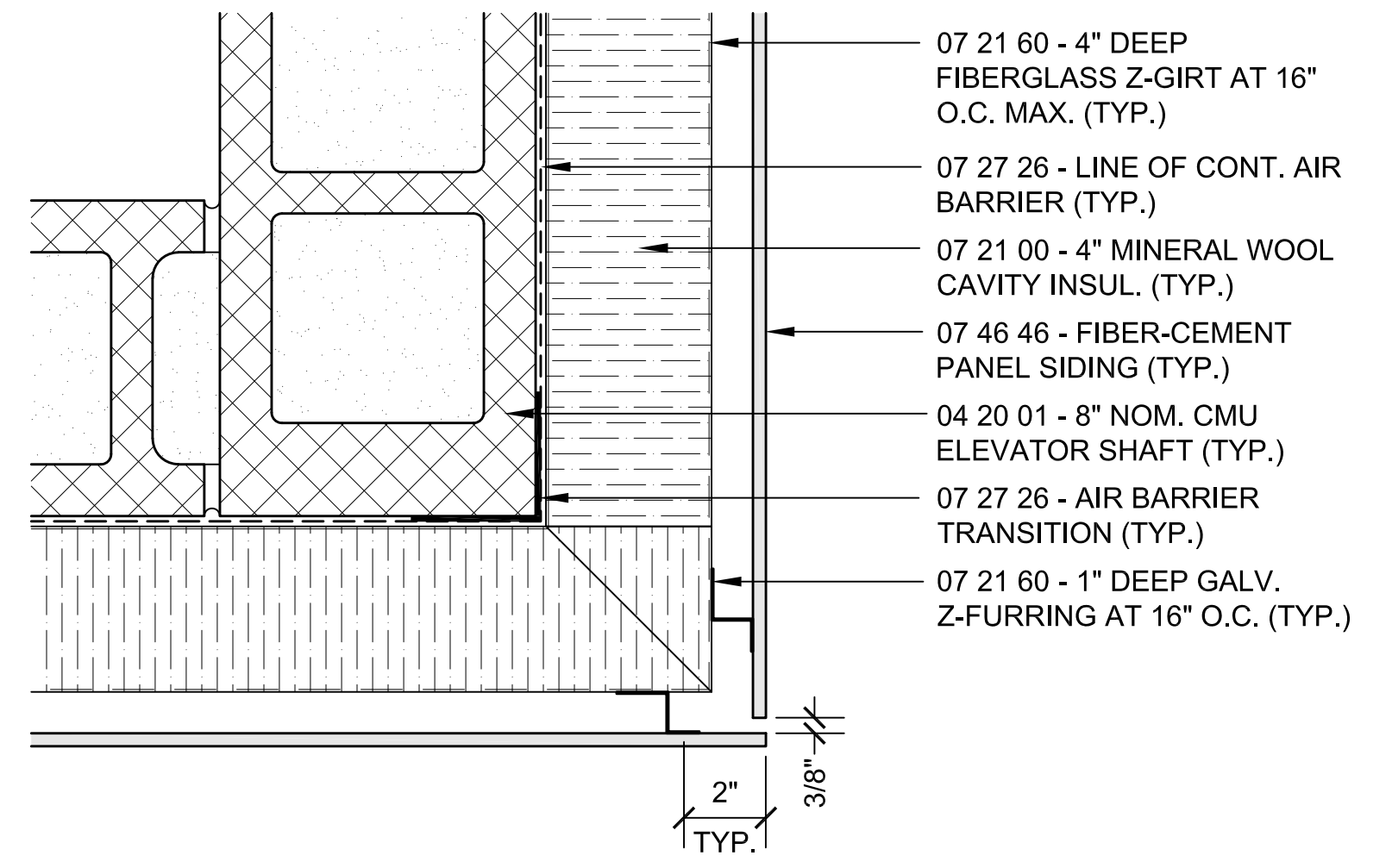
**1 LOUVER HEAD DETAIL**  
SCALE: 3"=1'-0"



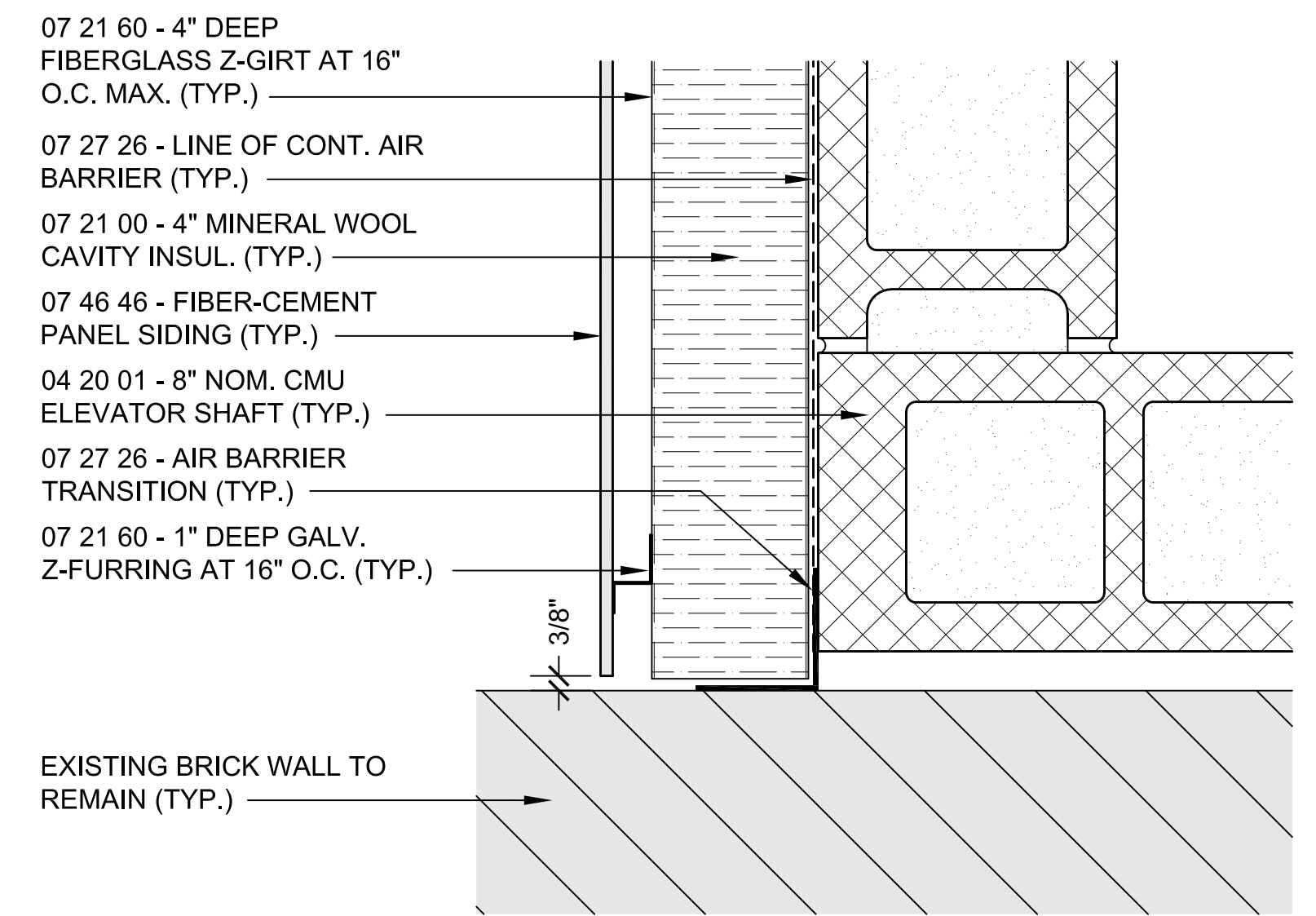
**2 LOUVER JAMB DETAIL**  
SCALE: 3"=1'-0"



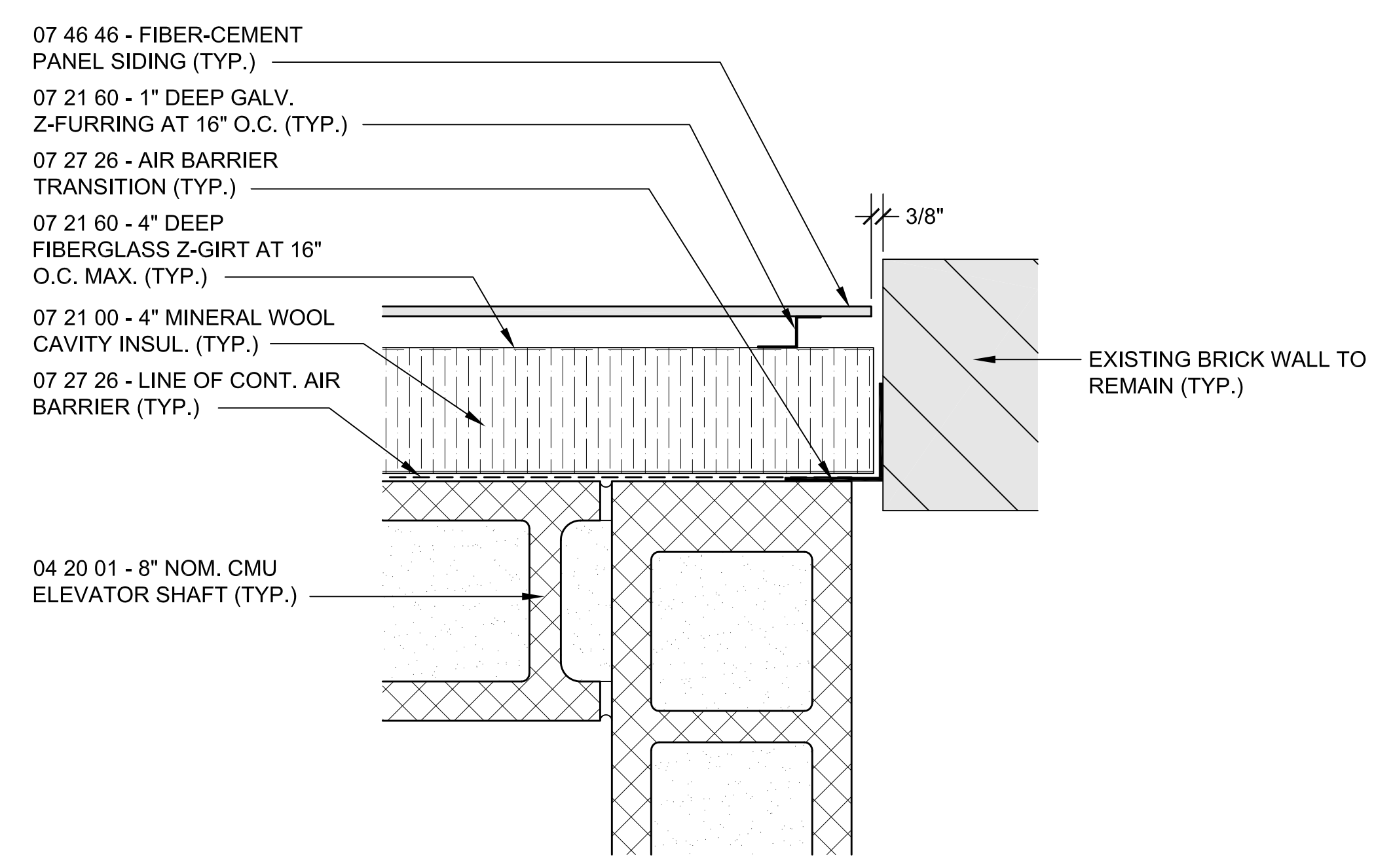
**3 LOUVER SILL DETAIL**  
SCALE: 3"=1'-0"



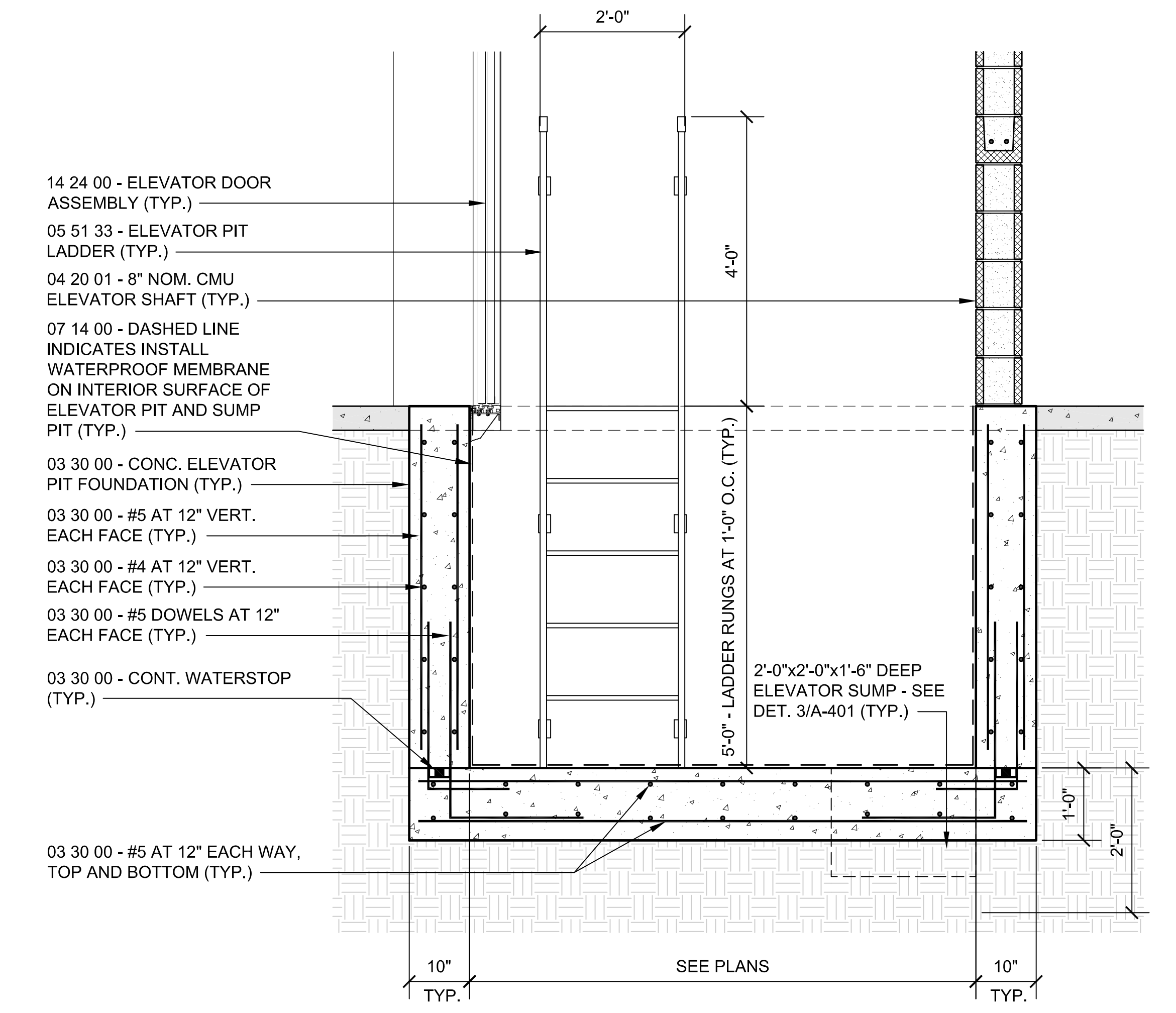
**4 EXTERIOR CORNER DETAIL**  
SCALE: 3"=1'-0"



**5 EXTERIOR JAMB DETAIL**  
SCALE: 3"=1'-0"



**6 EXTERIOR JAMB DETAIL**  
SCALE: 3"=1'-0"



**7 ELEVATOR PIT DETAIL**  
SCALE: 3/4"=1'-0"





**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

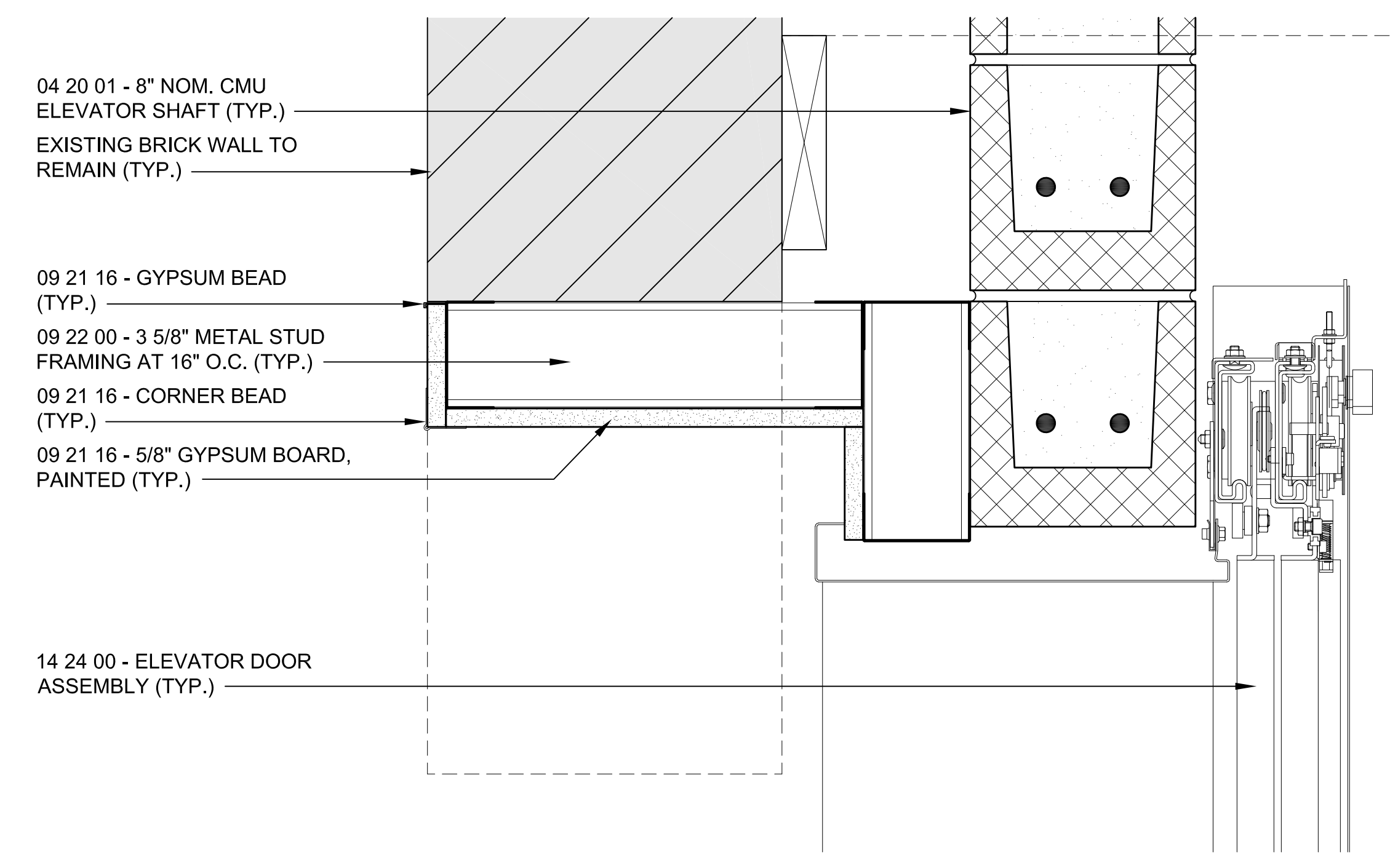
OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

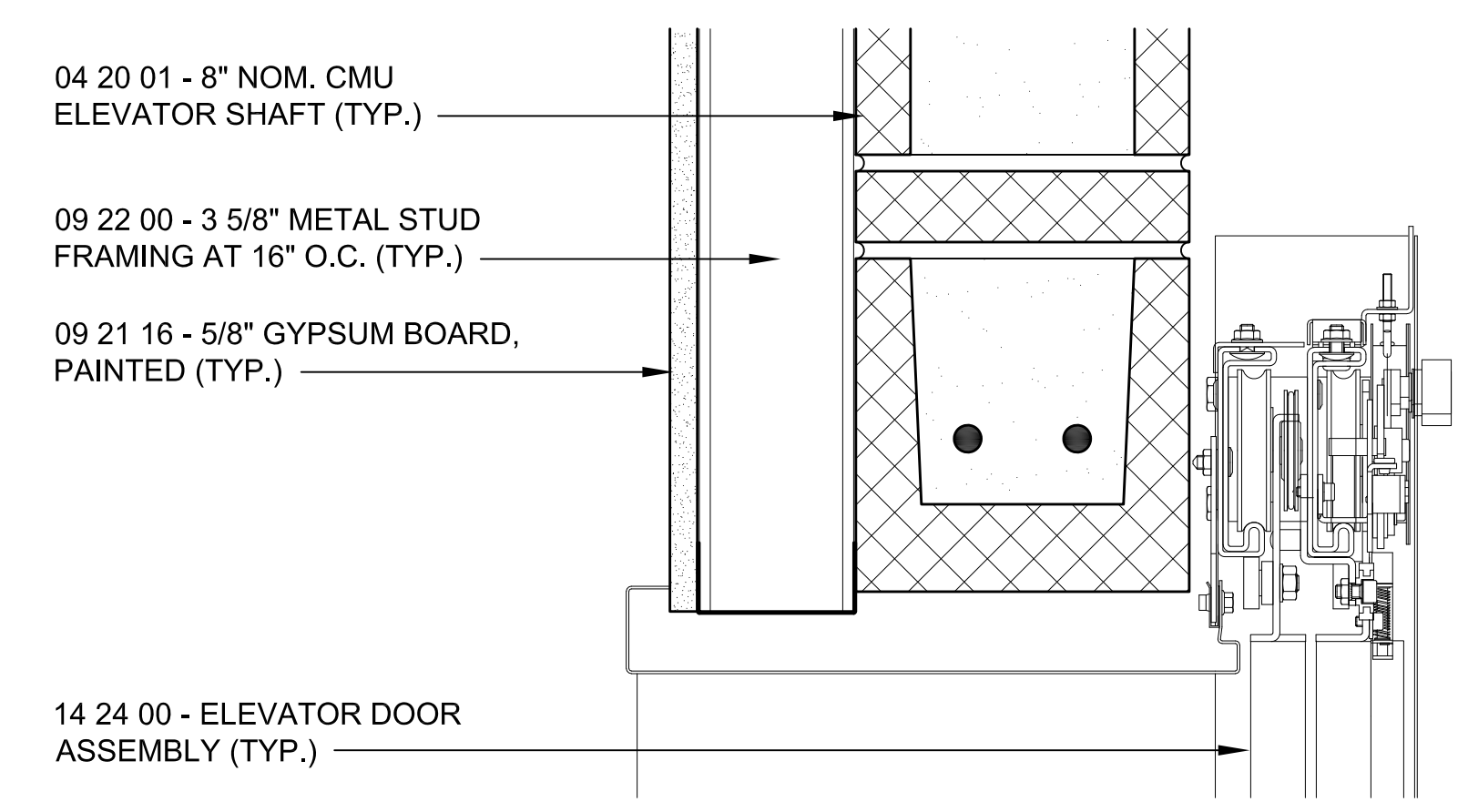
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

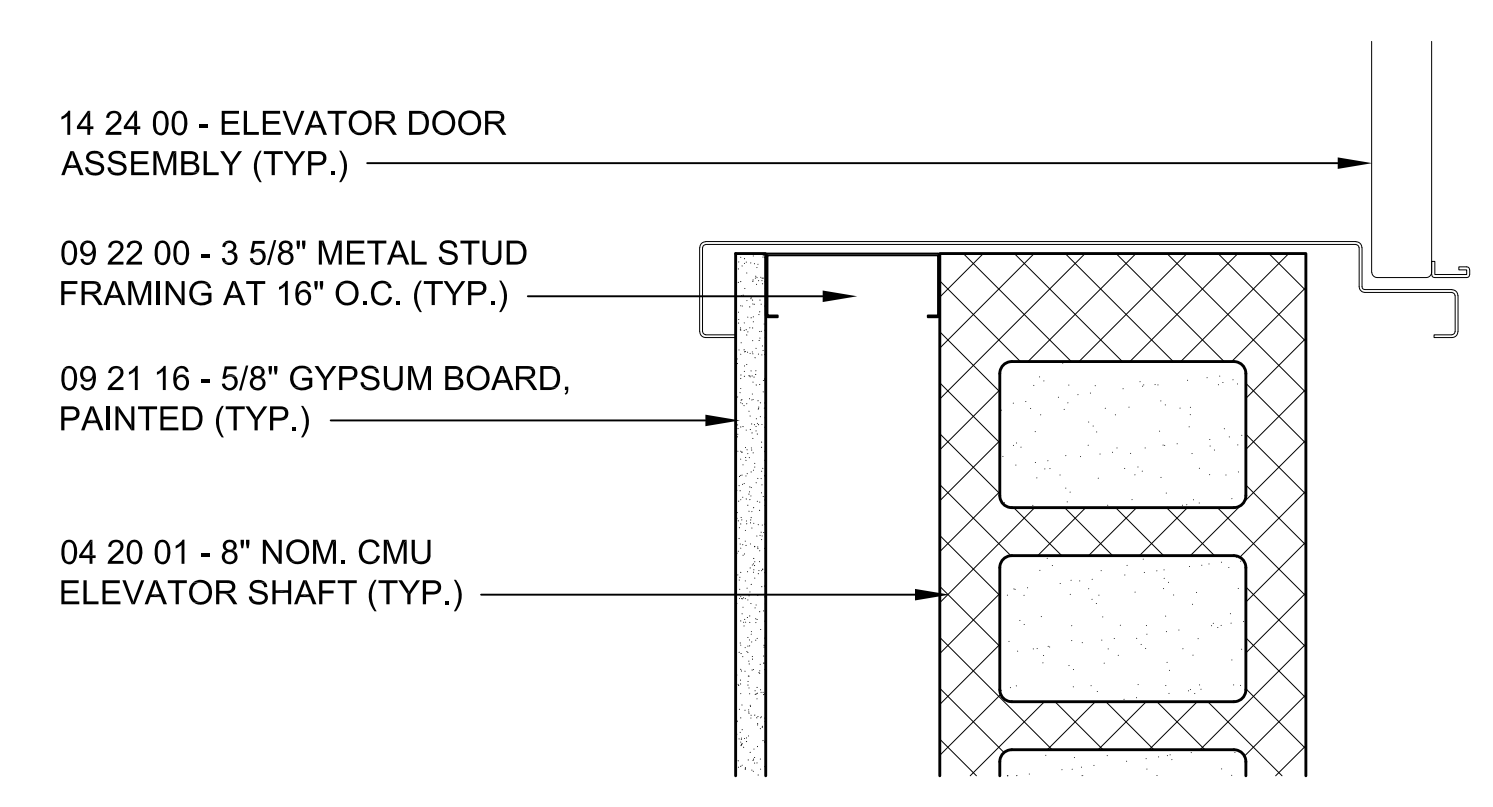
ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



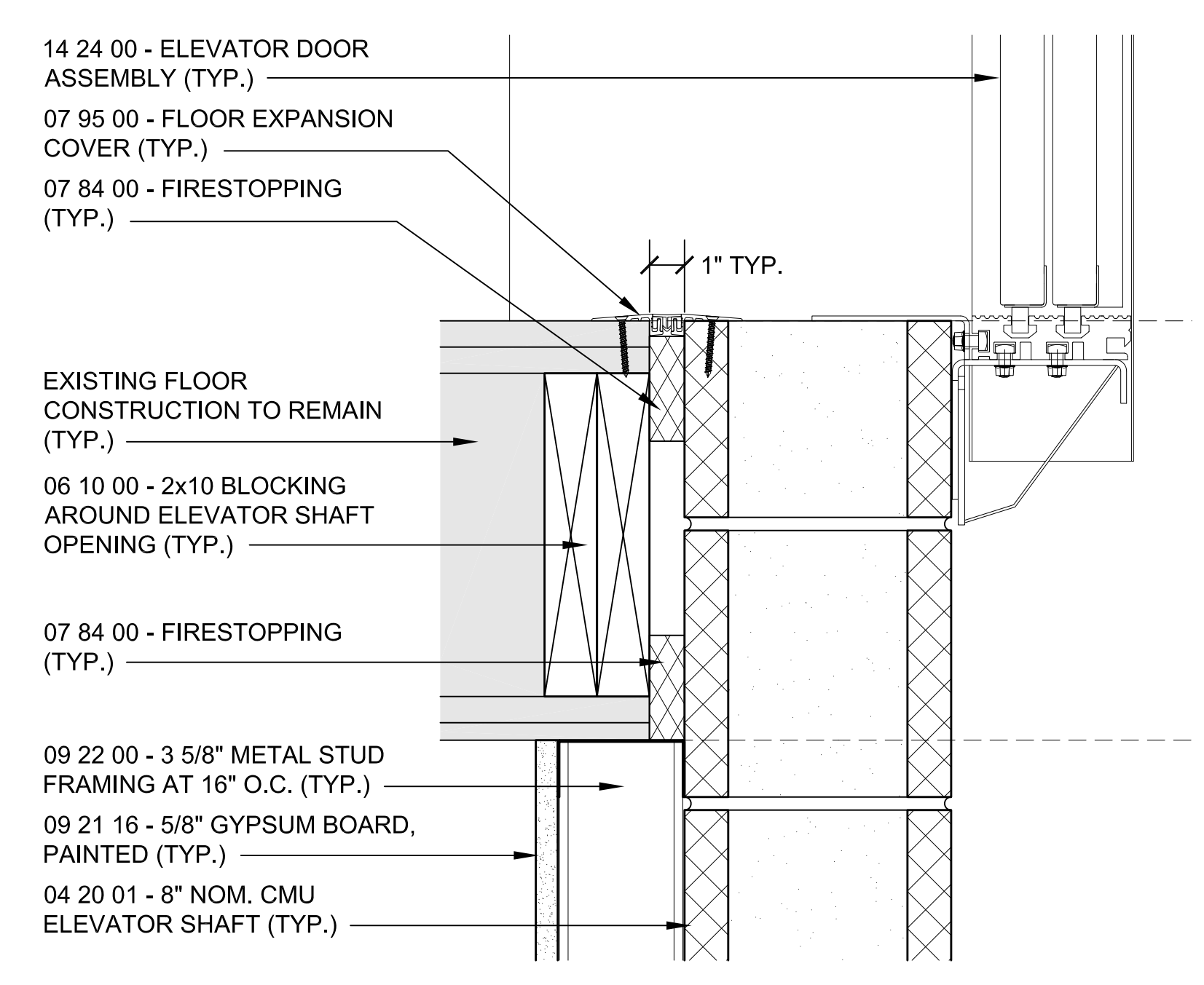
**1 ELEVATOR DOOR HEAD DETAIL**  
SCALE: 3"=1'-0"



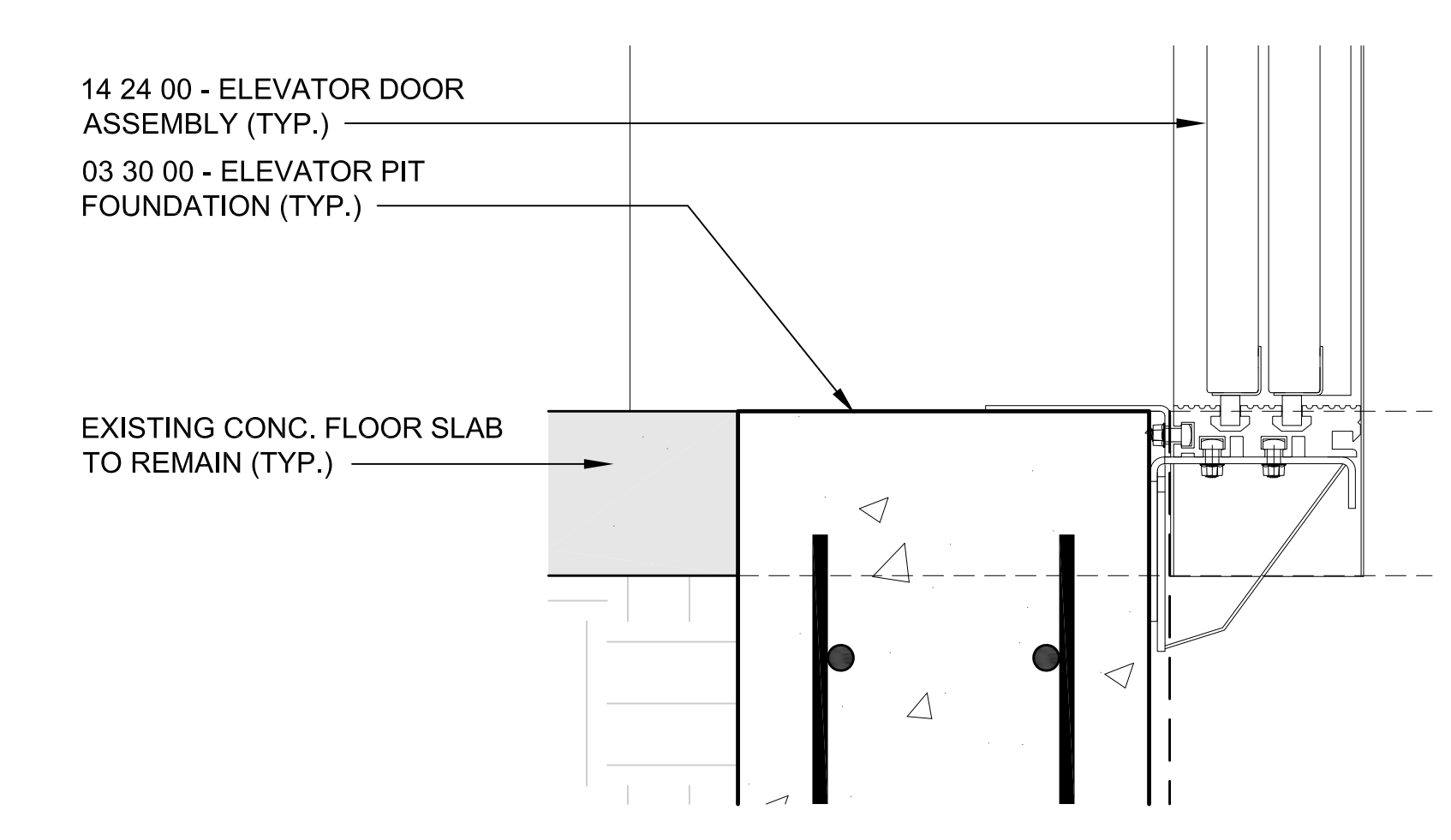
**2 ELEVATOR DOOR HEAD DETAIL**  
SCALE: 3"=1'-0"



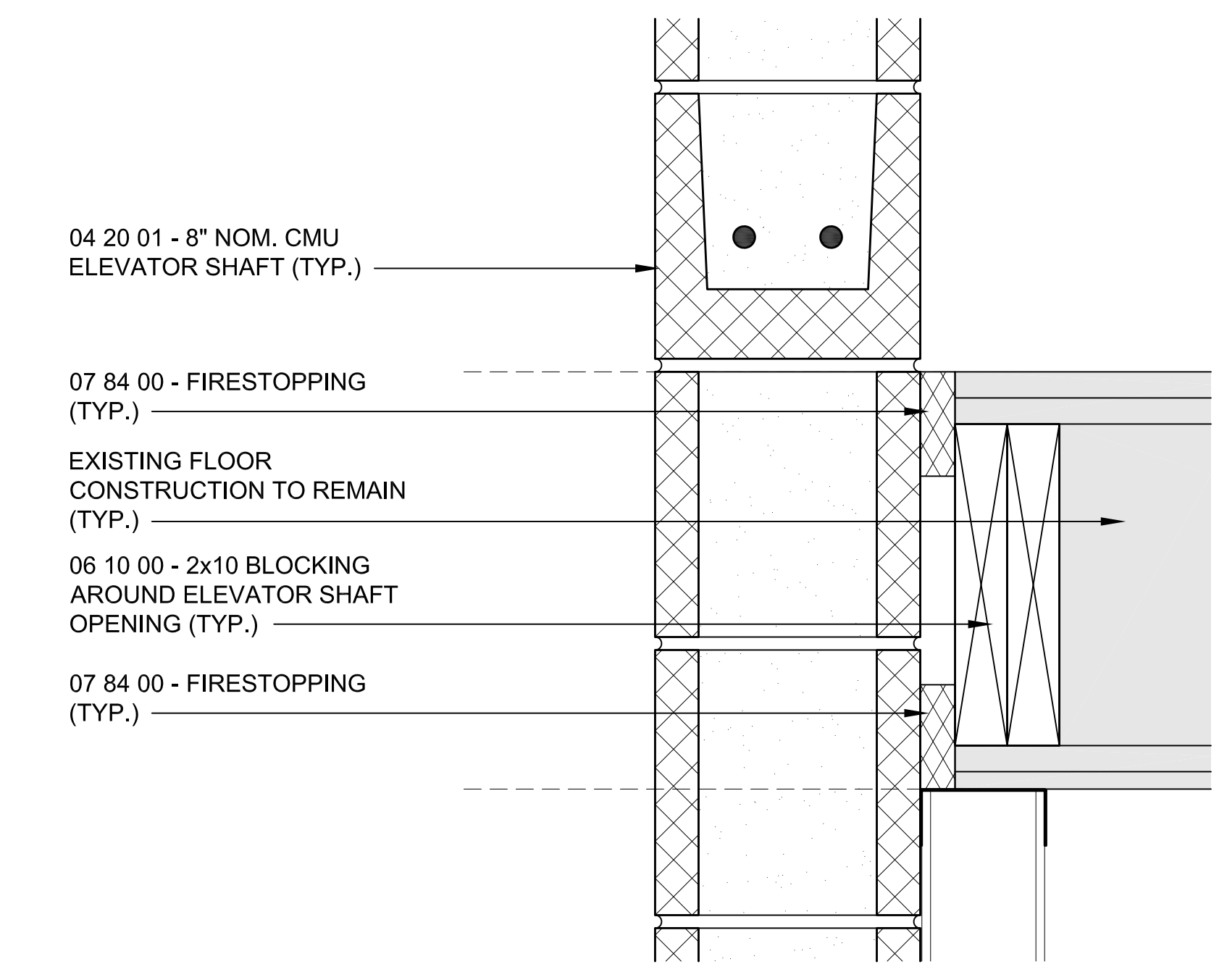
**3 ELEVATOR DOOR JAMB DETAIL**  
SCALE: 3"=1'-0"



**4 ELEVATOR DOOR THRESHOLD DETAIL**  
SCALE: 3"=1'-0"



**5 ELEVATOR DOOR THRESHOLD DETAIL**  
SCALE: 3"=1'-0"



**6 ELEVATOR SHAFT DETAIL**  
SCALE: 3"=1'-0"

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	AS NOTED
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:  
SHEET TITLE:  
**DETAILS SHEET 3**

DRAWING NO.  
**A-503**



**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

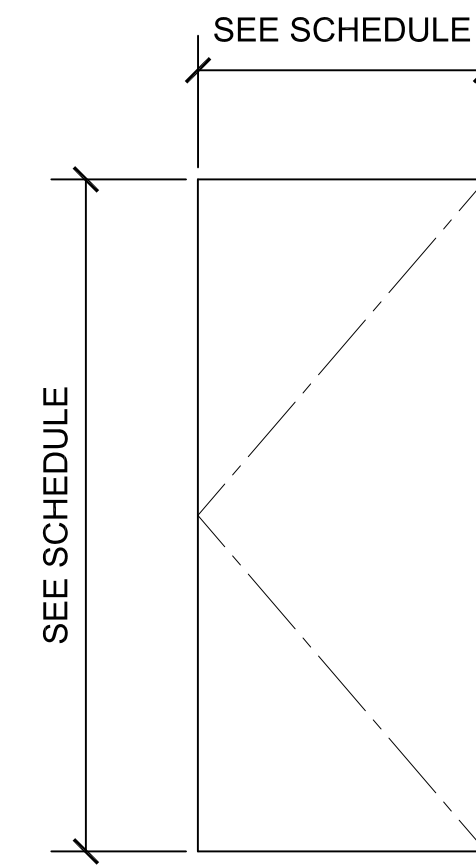
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

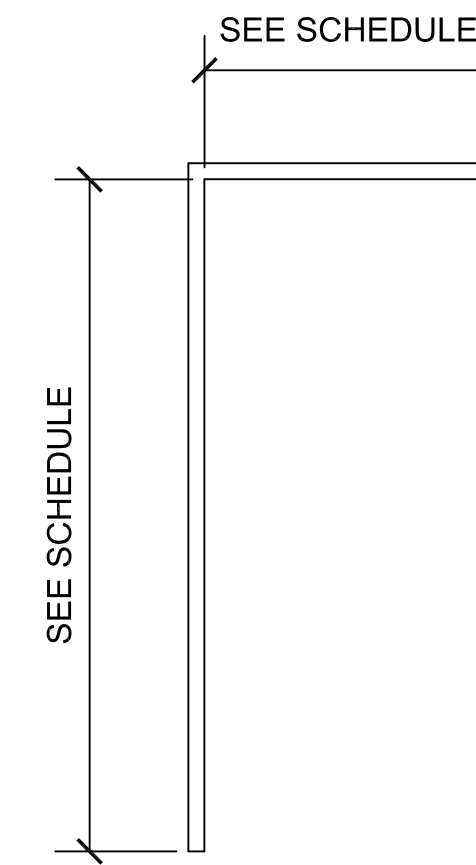
ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109

**DOOR SCHEDULE**

DOOR NO.	DOOR/CASED OPENING					FRAME			DETAILS			LABEL	HWDR SET	REMARKS	DOOR NO.
	TYPE	MATERIAL	SIZE	THICKNESS	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL				
B01	A	STEEL	3'-0"x7'-0"	1 3/4"	PAINT	1	STEEL	PAINT	3/A-504	3/A-504		B	HW-1		B01
201	A	WOOD	3'-0"x7'-0"	1 3/4"	NAT.	1	STEEL	PAINT	4/A-504	5/A-504			HW-2		201



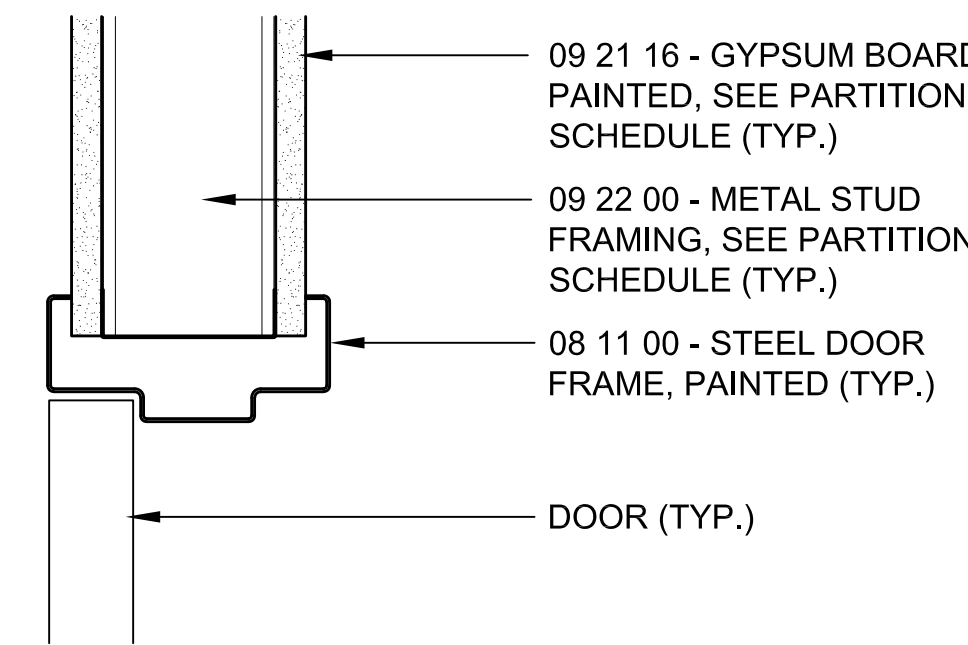
DOOR TYPE A



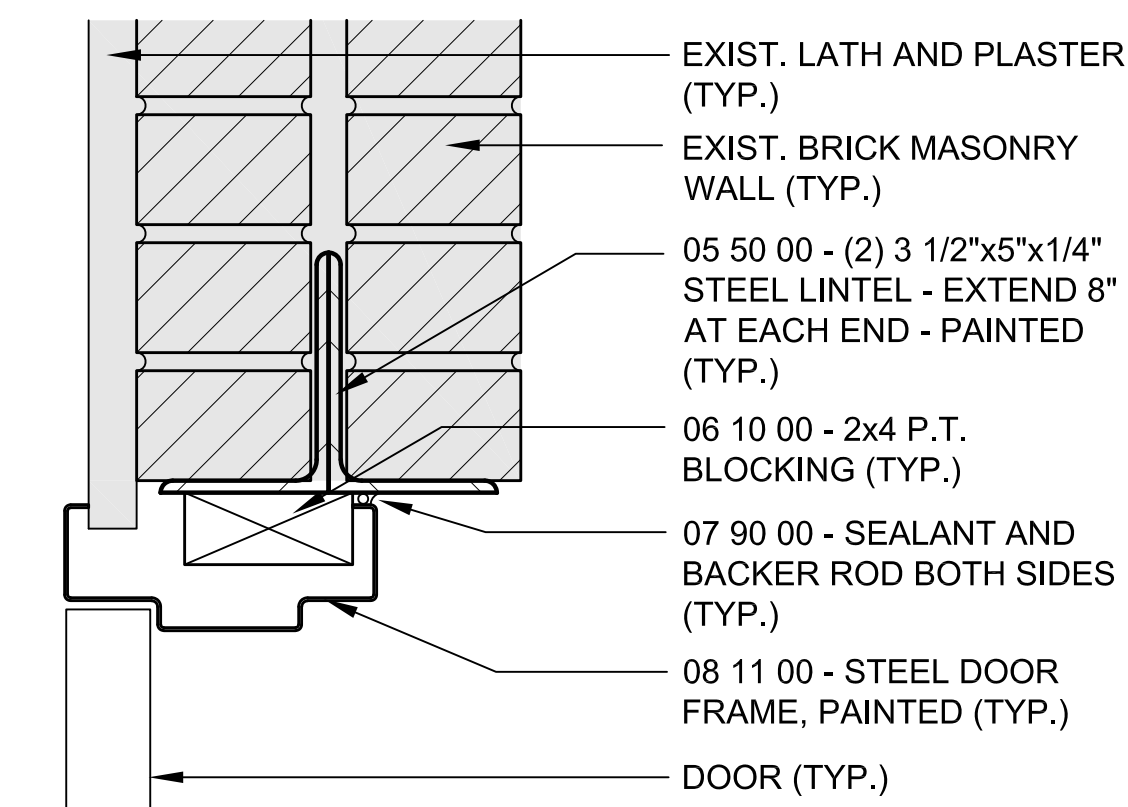
FRAME TYPE 1

**1 DOOR TYPES**  
SCALE: 1/2"=1'-0"

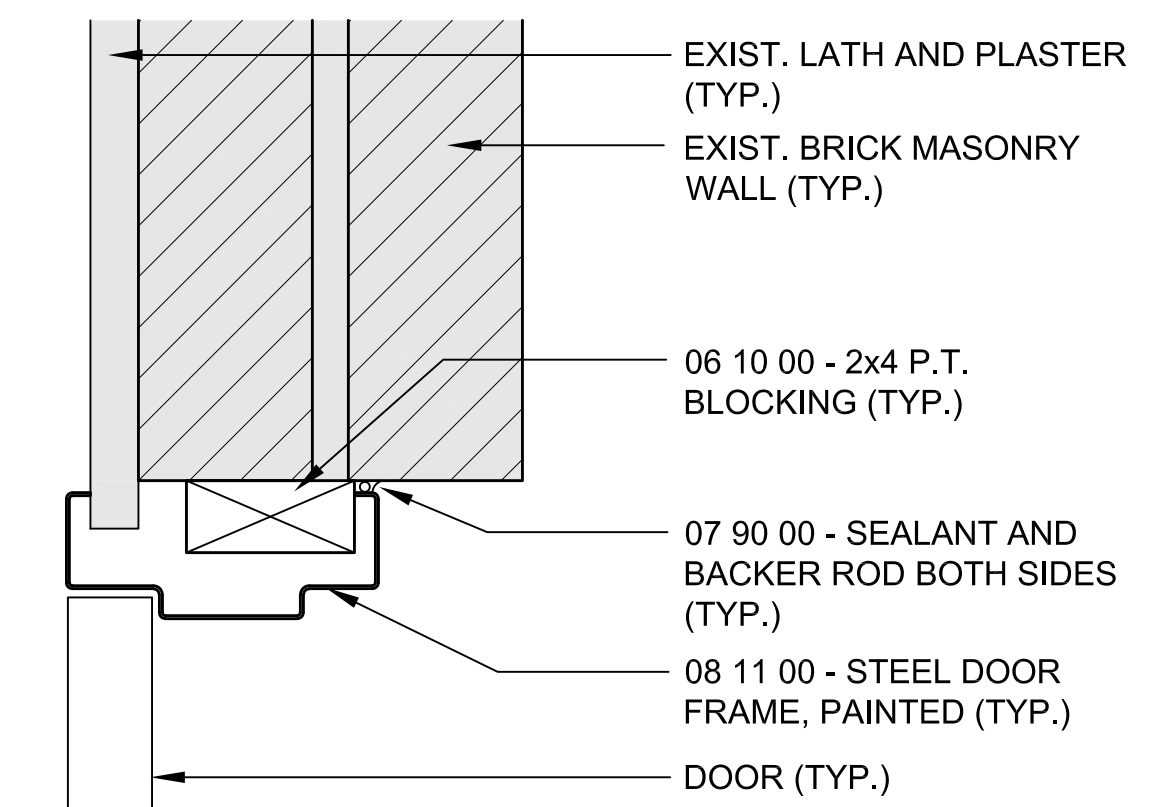
**2 FRAME TYPES**  
SCALE: 1/2"=1'-0"



**3 DOOR HEAD/JAMB GYPSUM BOARD WALL**  
SCALE: 3"=1'-0"



**4 DOOR HEAD CMU WALL**  
SCALE: 3"=1'-0"



**5 DOOR JAMB CMU WALL**  
SCALE: 3"=1'-0"

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	AS NOTED
DRAWN BY	MTV
CHECKED BY	GKY
PROJECT NO.	22009

BUILDING:

SHEET TITLE:

**DOOR SCHEDULE,  
TYPES, FRAMES  
AND DETAILS**

DRAWING NO.

**A-504**





**TOWN OF GROTON**

**PRESCOTT SCHOOL ELEVATOR INSTALLATION**

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR., ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140

STAMP

REV DATE DESCRIPTION

DATE 1/11/2023

SCALE NTS

DRAWN BY DP

CHECKED BY MS

PROJECT NO. 22009

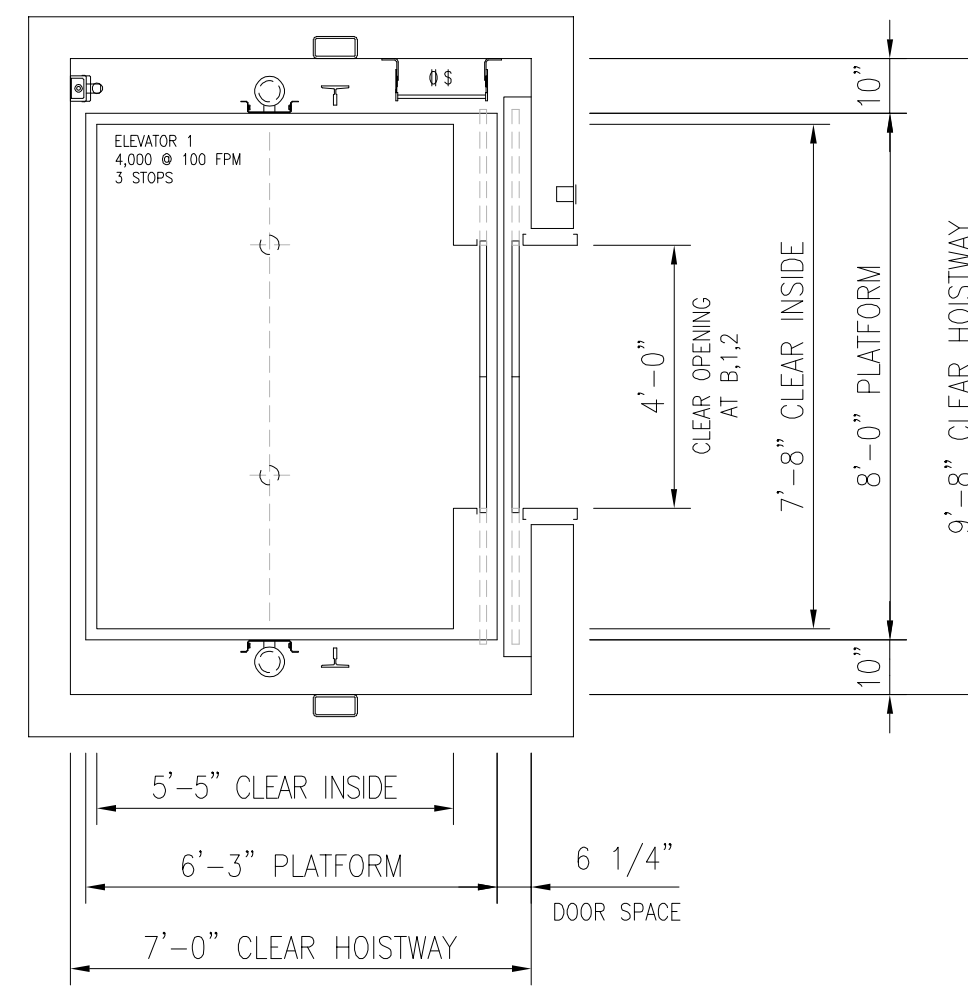
BUILDING:

SHEET TITLE:

**ELEVATOR 1  
HOISTWAY PLANS  
AND SECTION**

DRAWING NO.

**VT.01**



**2**  
ELEVATOR 1  
HOISTWAY PLAN  
SCALE: NONE  
TWIN-POST HOLELESS HYDRAULIC

RAIL FORCES MAXIMUM ON EACH GUIDE RAIL						
ELEVATOR NUMBER	ELEVATOR	1				OCcurring ON
NORMAL FORCES	R1	652 LBS				FACE OF MAIN GUIDE
	R2	457 LBS				SIDE OF MAIN GUIDE
	CAR SAFETY	N/A				FORCE TRANSMITTED TO PIT CAR SAFETY APPLICATION *
SEISMIC FORCES	CWT SAFETY	N/A				FORCE TRANSMITTED TO PIT CWT SAFETY APPLICATION *
	R1	1,957 LBS				FACE OF MAIN GUIDE **
	R2	979 LBS				SIDE OF MAIN GUIDE - LOADING OR RUNNING **
	R1	N/A				FACE OF COUNTERWEIGHT GUIDE **
	R2	N/A				SIDE OF COUNTERWEIGHT GUIDE **

BUILDING SUPPORTS TO RESIST HORIZONTAL FORCES WITH A TOTAL DEFLECTION AT POINT OF SUPPORT NOT IN EXCESS OF 1/8" DURING NORMAL CONDITIONS

\* THESE REACTIONS DO NOT OCCUR SIMULTANEOUSLY WITH PIT BUFFER REACTIONS

\*\* BUILDING SUPPORTS FOR GUIDE RAIL ATTACHMENT SHALL RESIST HORIZONTAL FORCES WITH A TOTAL DEFLECTION NOT IN EXCESS OF 1/4" BASED UPON 0.50 ACCELERATION DURING SEISMIC CONDITIONS

**5**  
ELEVATOR 1  
RAIL FORCES  
SCALE: NONE  
TWIN-POST HOLELESS HYDRAULIC

PIT REACTION TABLE	
KEY	REACTION
(A)	10,891 LBS
(B)	23,583 LBS

REACTIONS HAVE BEEN DOUBLED FOR IMPACT

**6**  
ELEVATOR 1  
PIT LOADS  
SCALE: NONE  
TWIN-POST HOLELESS HYDRAULIC

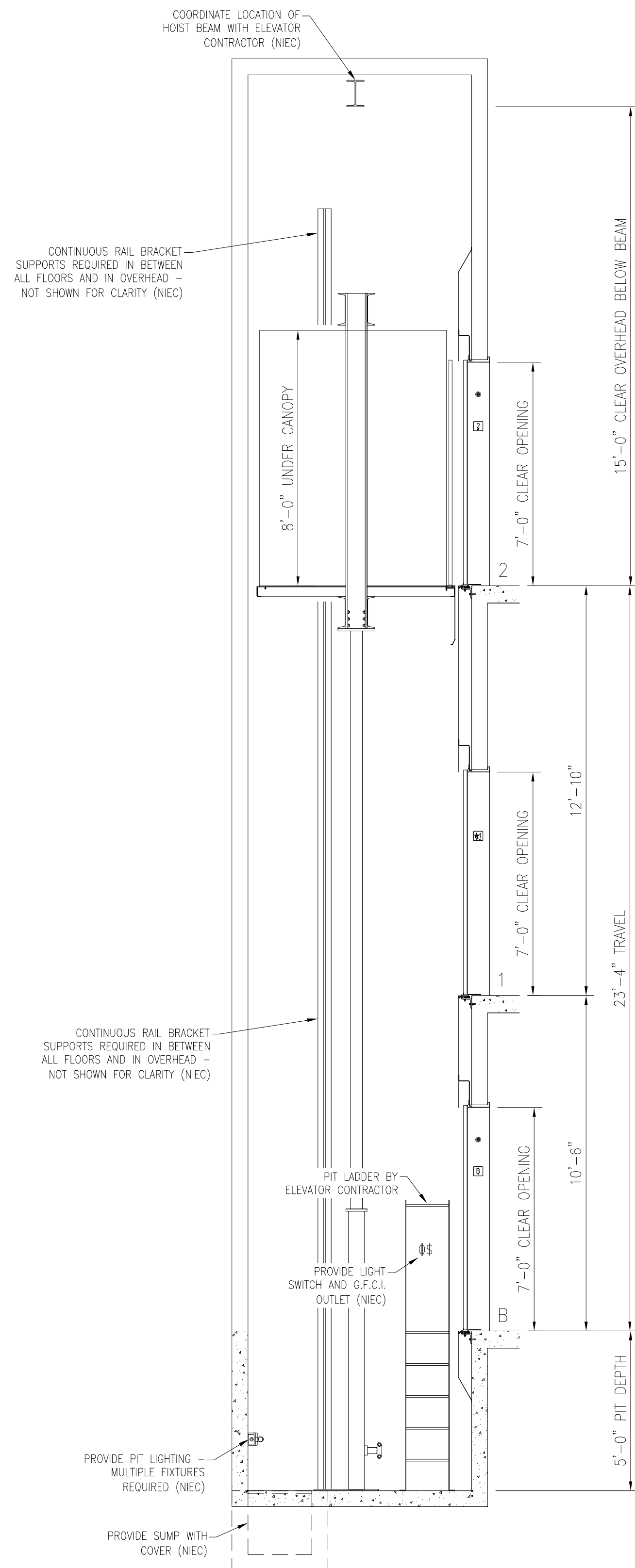
POWER REQUIREMENTS FOR REFERENCE ONLY							
POWER FEEDER REQUIREMENTS				MAIN SUPPLY: 208V / 3 PH / 60HZ			
UNIT NUMBER	CAPACITY	SPEED FPM	MOTOR HP	DRIVE HP	FULL LOAD AMPERAGE	MACHINE / CONTROL ROOM	HEAT LOADING (BTU'S / HR)
ELEVATOR 1	4,000	100	50	N/A	469	156	22,222

NOTES:

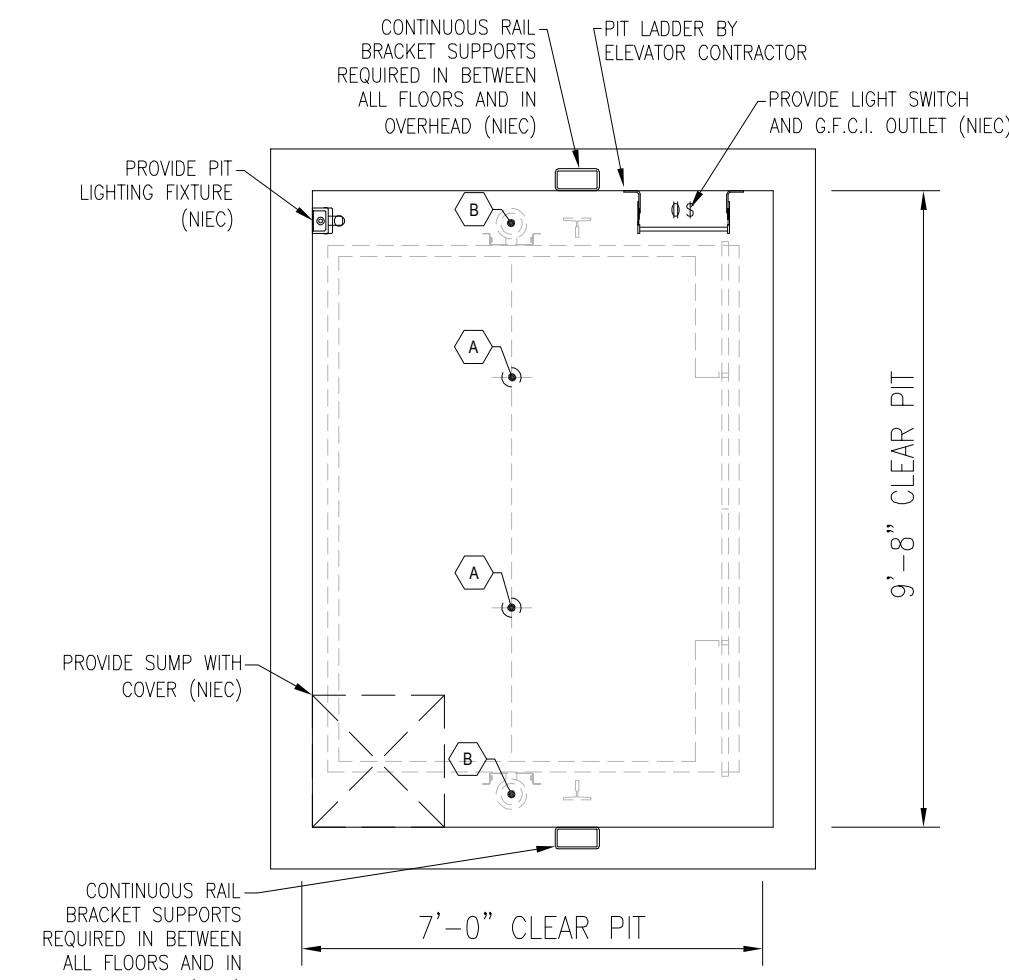
- ELECTRIC POWER AND CURRENT ARE BASED ON THREE (3) PHASE A.C. POWER SUPPLY
- MAIN POWER TO BE PROVIDED AT EACH CONTROLLER THROUGH FUSED DISCONNECTING MEANS OR CIRCUIT BREAKERS
- MAIN POWER SUPPLY DISCONNECTING MEANS TO BE SIZED TO LIMIT VOLTAGE DROP TO LESS THAN 5%
- A FOURTH WIRE IS REQUIRED FOR GROUNDING PURPOSES. THE CONDUIT CONTAINING THE POWER CABLE CANNOT BE USED AS A GROUND FOR THE SYSTEM
- PROVIDE ALL COPPER CONDUCTORS THROUGHOUT
- MACHINE ROOM TEMPERATURE TO BE MINIMUM 50 DEGREES F, MAX. 80 DEGREES F, TO BE MEASURED 6'-0" ABOVE FINISH FLOOR AT APPROXIMATE CENTER OF ROOM - RELATIVE HUMIDITY MAXIMUM 85% NON CONDENSING
- THE SELECTION OF MAIN POWER SUPPLY DISCONNECTING MEANS TO BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, SECTION 620-51, ARTICLE 430-52 (EXCEPTIONS A, B, C)
- PROVIDE LOCAL TELEPHONE SERVICE LINE TO EACH CAR CONTROLLER (IF APPLICABLE)
- PROVIDE G.F.C.I.-PROTECTED PIT, CONTROL ROOM, AND OVERHEAD OUTLETS

ADDITIONAL POWER AND DISCONNECT REQUIREMENTS IN MACHINE ROOM			
AUXILIARY SYSTEM	SUPPLY TERMINAL	SUPPLY VOLTAGE	CIRCUIT CAPACITY
CAR LIGHT AND FAN W/ LOCKABLE DISCONNECT	EACH CONTROLLER	120V / 1 PH / 60HZ	20 AMP PER CAR
SEISMIC SWITCH	EACH GROUP	120V / 1 PH / 60HZ	20 AMP PER CAR

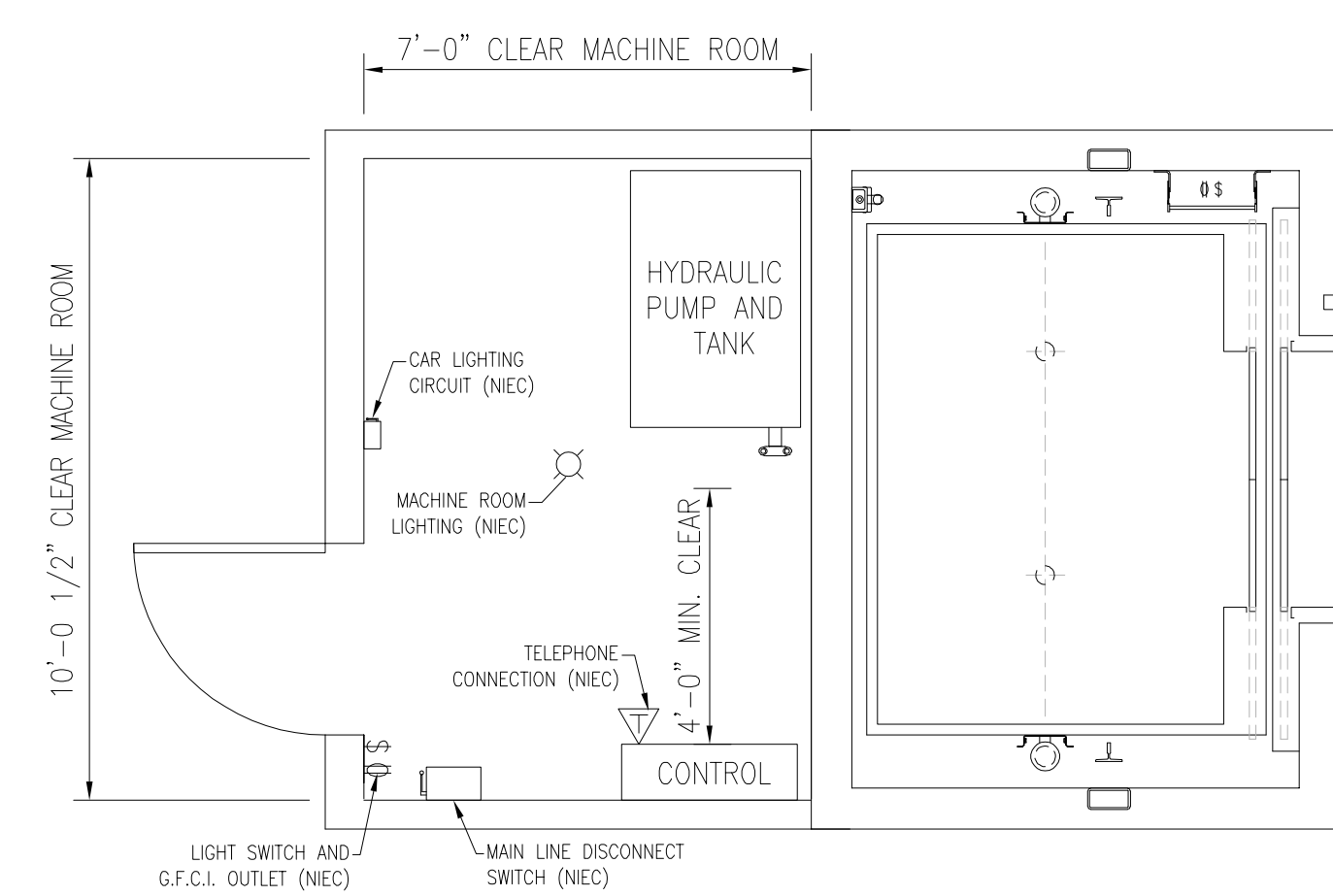
**7**  
ELEVATOR 1  
ELECTRICAL AND MECHANICAL REQUIREMENTS  
SCALE: NONE  
TWIN-POST HOLELESS HYDRAULIC



**1**  
ELEVATOR 1  
SECTION VIEW  
SCALE: NONE  
TWIN-POST HOLELESS HYDRAULIC



**3**  
ELEVATOR 1  
PIT PLAN  
SCALE: NONE  
TWIN-POST HOLELESS HYDRAULIC



**4**  
ELEVATOR 1  
MACHINE ROOM PLAN  
SCALE: NONE  
TWIN-POST HOLELESS HYDRAULIC  
MACHINE ROOM LOCATED AT BASEMENT LEVEL



TOWN OF GROTON

PRESCOTT SCHOOL  
ELEVATOR INSTALLATION

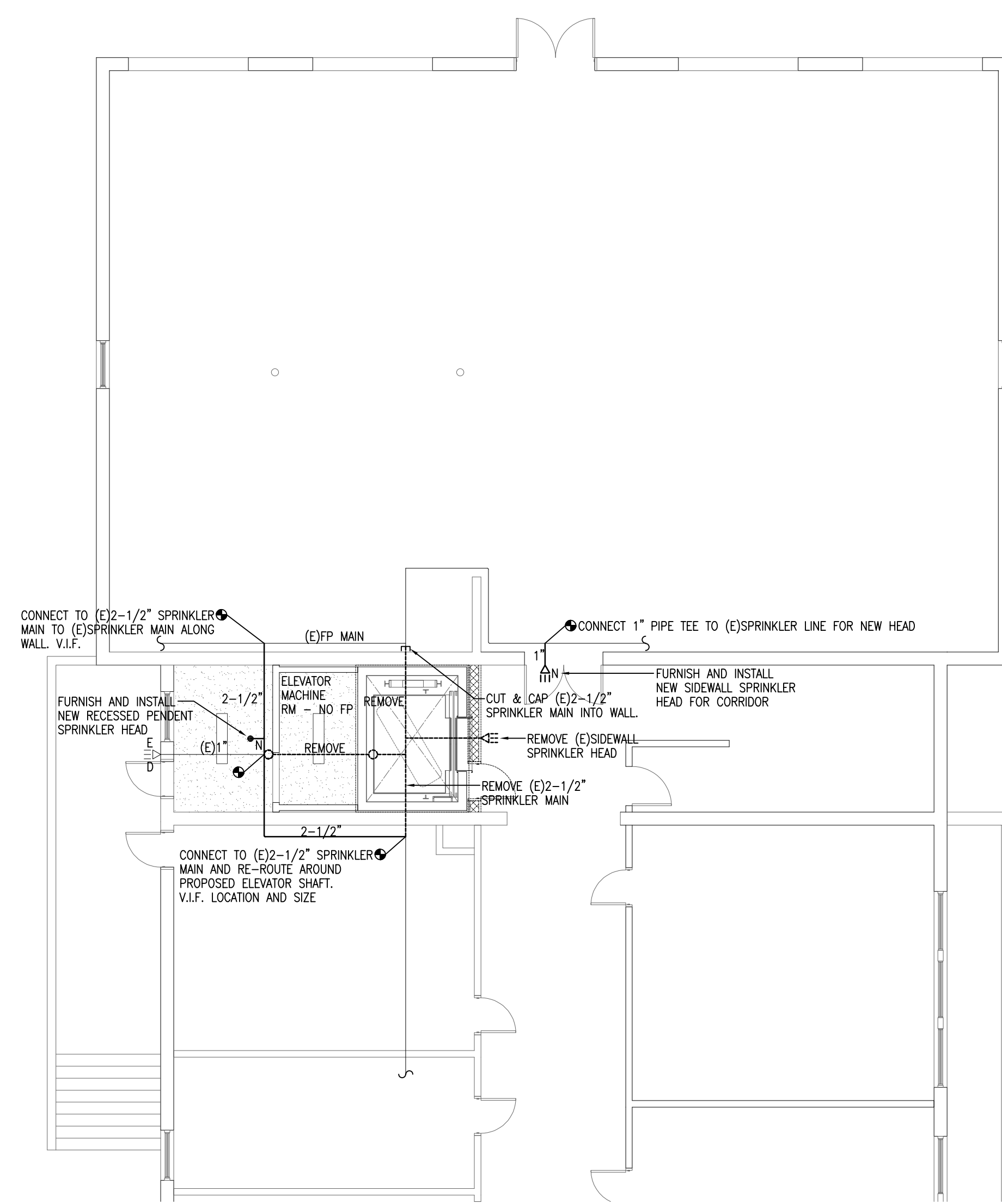
OWNER:  
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GROTON, MA 01450

ARCHITECT:  
HELENE · KARL  
Architects, Inc.  
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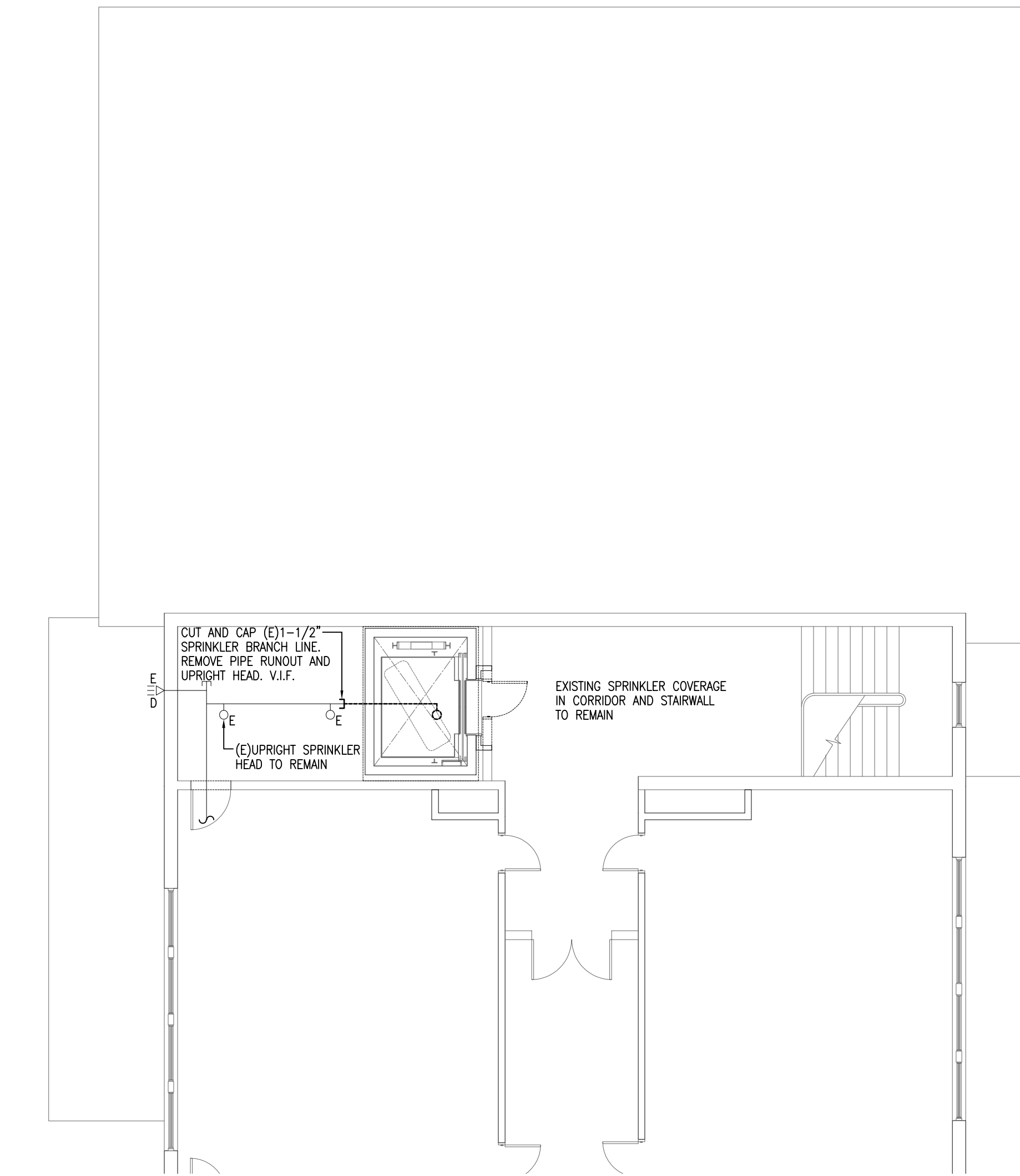
MECHANICAL ENGINEER:  
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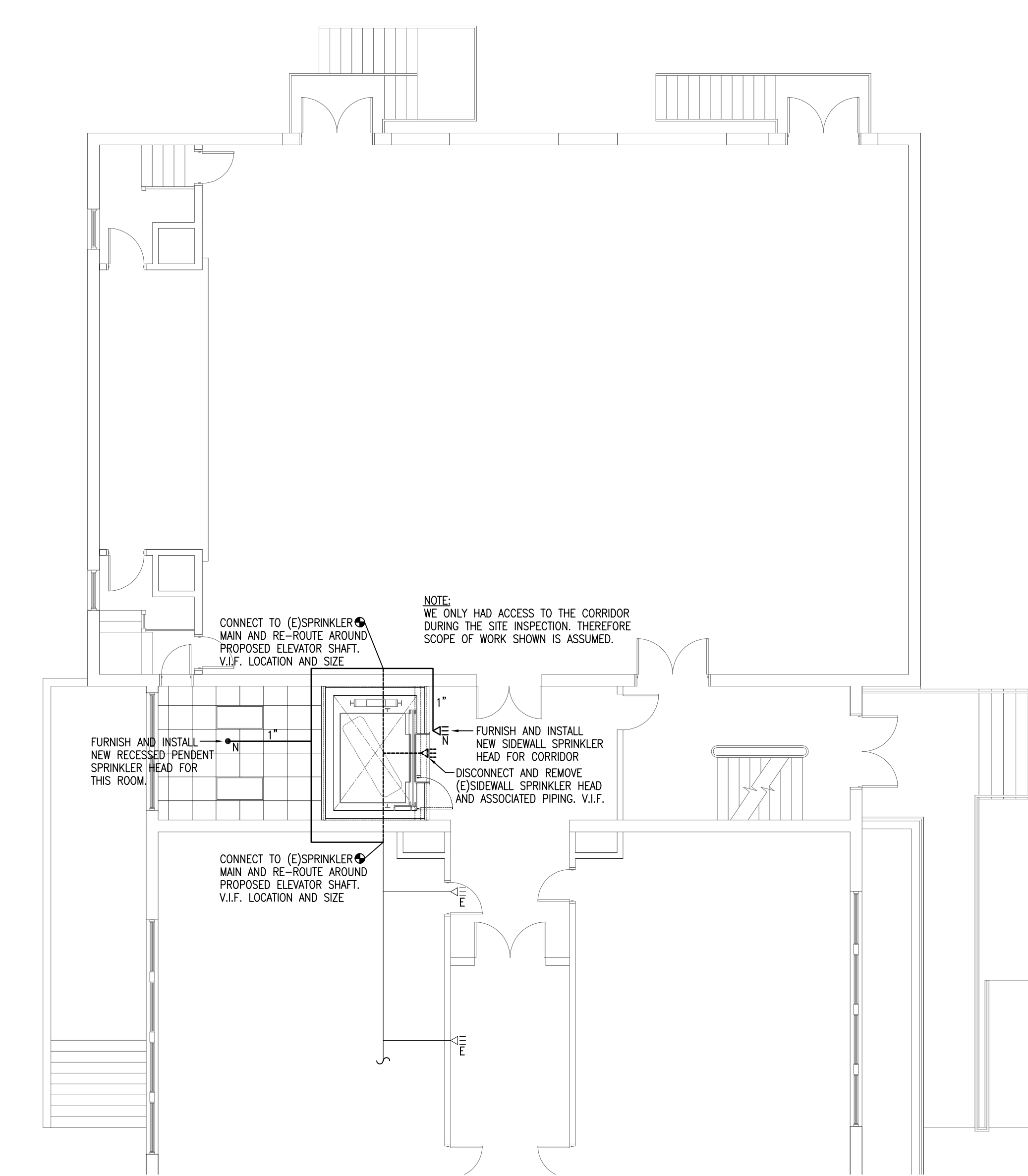
ELEVATOR CONSULTANT:  
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10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



1 BASEMENT FIRE PROTECTION PLAN  
SCALE: 1/8"=1'-0"



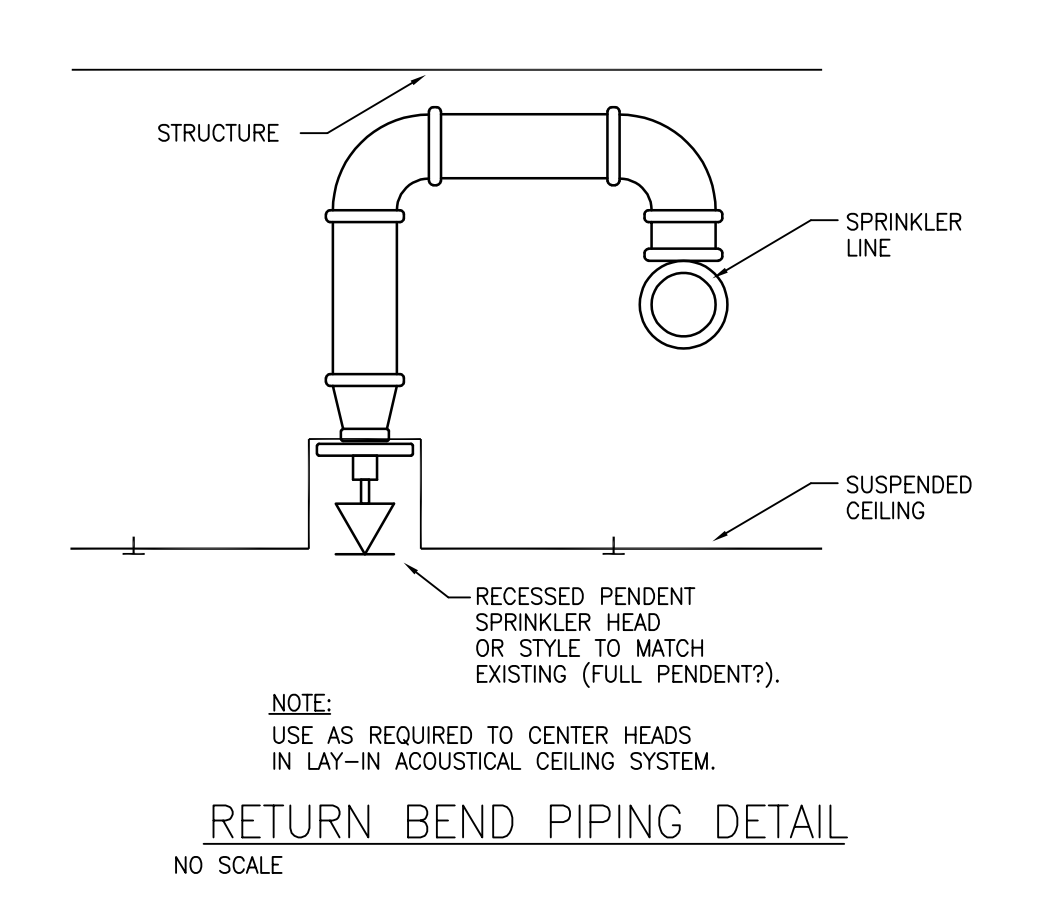
3 SECOND FLOOR FIRE PROTECTION PLAN  
SCALE: 1/8"=1'-0"



2 FIRST FLOOR FIRE PROTECTION PLAN  
SCALE: 1/8"=1'-0"

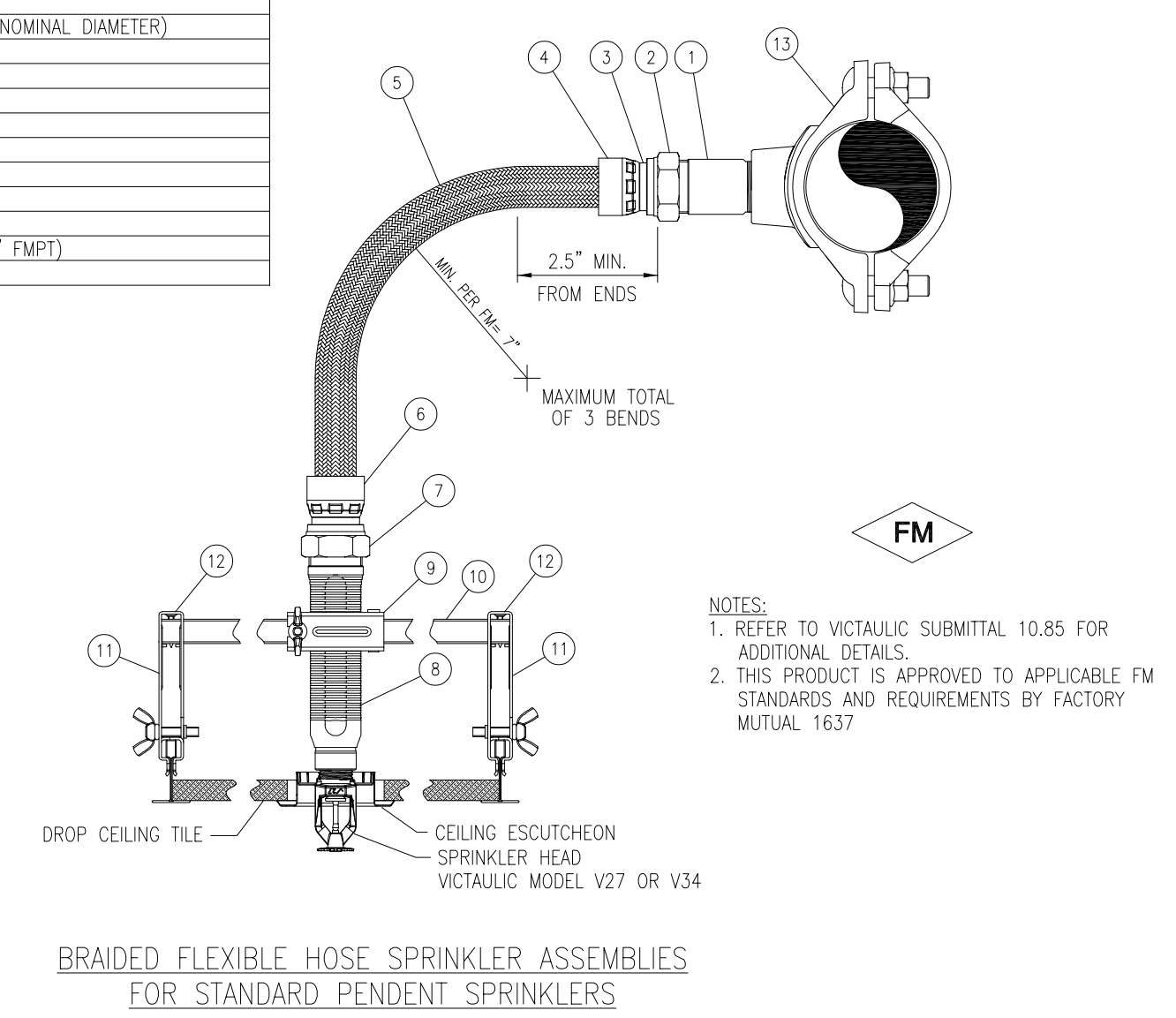
- LEGEND**
- SPRINKLER SYSTEM PIPING TO BE REMOVED
  - DISCONNECT AND REMOVE EXISTING UPRIGHT SPRINKLER HEAD
  - ◄ DISCONNECT AND REMOVE EXISTING SIDEWALL SPRINKLER HEAD
  - EXISTING WET SPRINKLER SYSTEM PIPING TO REMAIN
  - E EXISTING UPRIGHT SPRINKLER HEAD TO REMAIN
  - ◄ E EXISTING SIDEWALL SPRINKLER HEAD TO REMAIN
  - E EXISTING DRY SIDEWALL SPRINKLER HEAD TO REMAIN
  - PROPOSED WET SPRINKLER SYSTEM PIPING
  - N PROPOSED RECESSED PENDENT SPRINKLER HEAD
  - ◄ N PROPOSED HORIZONTAL SIDEWALL SPRINKLER HEAD
  - CONNECT NEW TO EXISTING
  - V.I.F. VERIFY IN FIELD
  - (E) EXISTING
  - FP FIRE PROTECTION

- FIRE PROTECTION GENERAL NOTES:**
- A SET OF WORKING DRAWINGS SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO SUBMISSION TO THE ARCHITECT. VERIFY WITH THE GROTON F.D. IF HYDRAULIC CALCULATIONS ARE REQUIRED FOR THE LIMITED SCOPE OF WORK.
  - DOCUMENTS SHALL BE PREPARED AND THE SYSTEM FURNISHED AND INSTALLED PURSUANT TO THE REQUIREMENTS OF NFPA 13 AND ALL OTHER APPLICABLE STATE AND LOCAL CODES.
  - THE EXISTING BUILDING IS FULLY SPRINKLERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING THE EXISTING SYSTEM AS REQUIRED INCLUDING INSTALLATION OF NEW HEADS IN THE NEW CEILING SYSTEM. THIS CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL ASSOCIATED DEMOLITION AND/OR ISOLATION OF THE EXISTING SYSTEM WHERE REQUIRED. NO ABANDONED SPRINKLER PIPING SHALL REMAIN. DRAIN AND REFILL THE SYSTEM AS REQUIRED.
  - RECESSED PENDENT SPRINKLER HEADS SHALL BE CENTERED IN CEILING TILES. SPRINKLER HEAD COULD BE OFF CENTERED TO MEET CODE (I.E. 9" FROM ONE WALL) FOR SMALL ROOMS SHOWN.
  - SPRINKLER HEADS SHALL BE ORDINARY TEMPERATURE CLASSIFICATION OF THE STYLE AND TYPE TO MATCH EXISTING. HEADS SHALL BE QUICK RESPONSE TYPE UNLESS INSTALLED IN AN AREA WHERE EXISTING STANDARD RESPONSE HEADS ARE INSTALLED. THEN STANDARD RESPONSE HEADS SHALL BE USED.
  - ALL PIPING LESS THAN 1-1/2" IN DIAMETER SHALL BE SCHEDULE 40. PIPING LARGER THAN 1-1/2" SHALL BE SCHEDULE 10. F-I-T TYPE FITTING SHALL NOT BE ALLOWED.
  - SUBMIT SIX COPIES OF SHOP DRAWINGS AND PRODUCT DATA TO ARCHITECT FOR APPROVAL. SUBMIT ON SPRINKLER HEADS, PIPING, HANGERS AND FITTINGS ALONG WITH THE PLANS AND HYDRAULIC CALCULATIONS (IF REQUIRED).
  - COORDINATE ALL SHUT-DOWNS OF SPRINKLER SYSTEM WITH OWNER.



**PRODUCT LEGEND**

1	1" NIPPLE (ONLY)
2	NUT
3	ADAPTER RING
4	COLLAR
5	304 STAINLESS STEEL FLEXIBLE BRAIDED HOSE (1" NOMINAL DIAMETER) (LENGTHS AVAILABLE 31', 48', 60', & 72')
6	COLLAR
7	NUT
8	REDUCING OUTLET (AVAILABLE 1/2" OR 3/4" FMPT)
9	CENTER BRACKET ASSEMBLY
10	SQUARE BAR (AVAILABLE IN 24" AND 48" LENGTHS)
11	END BRACKET ASSEMBLY
12	SHEET METAL SCREW
13	1/32" MECHANICAL-T OUTLET STYLE 922 FIRELOCK (1" FMPT)



STAMP

REV	DATE	DESCRIPTION

DATE 1/11/23  
SCALE 1/8" = 1'-0"  
DRAWN BY CDR  
CHECKED BY KRS  
PROJECT NO. 22009

BUILDING:

SHEET TITLE:  
BASEMENT, FIRST AND SECOND FLOOR FIRE PROTECTION PLANS

DRAWING NO.  
FP-101



TOWN OF GROTON

PRESCOTT SCHOOL ELEVATOR INSTALLATION

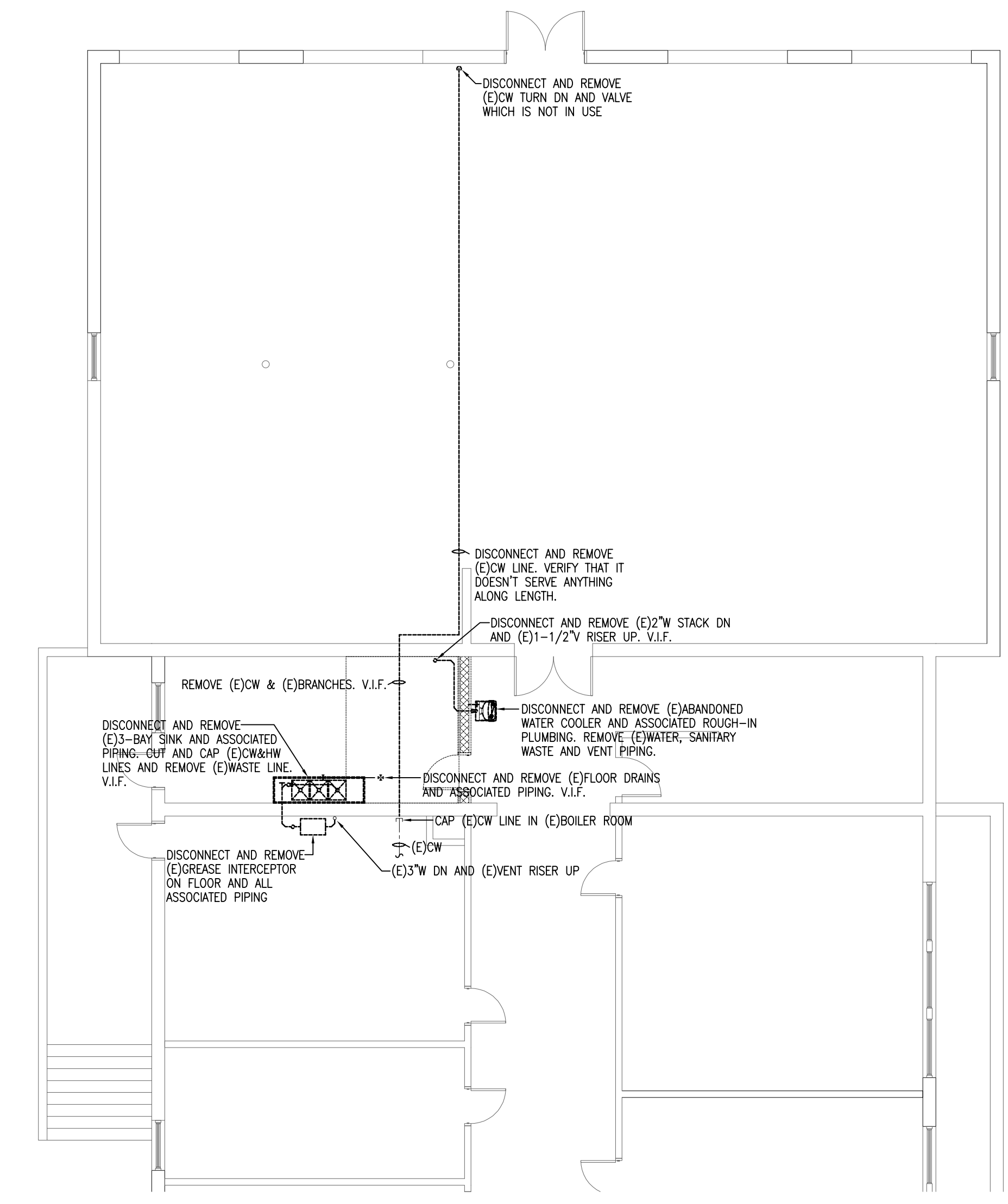
OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

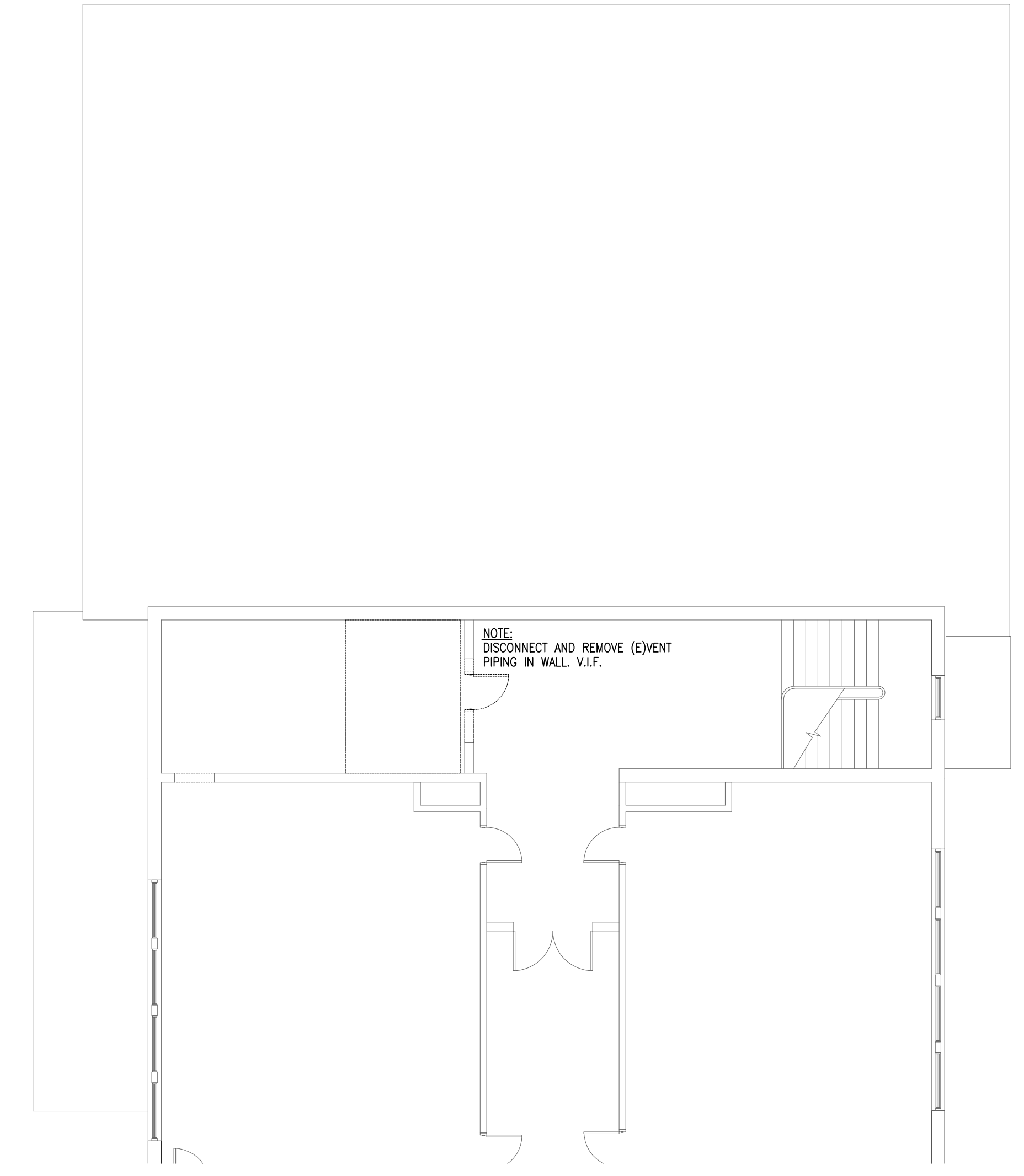
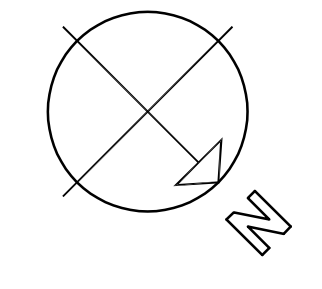
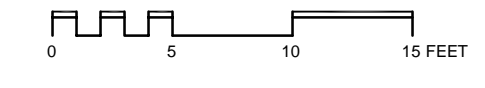
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

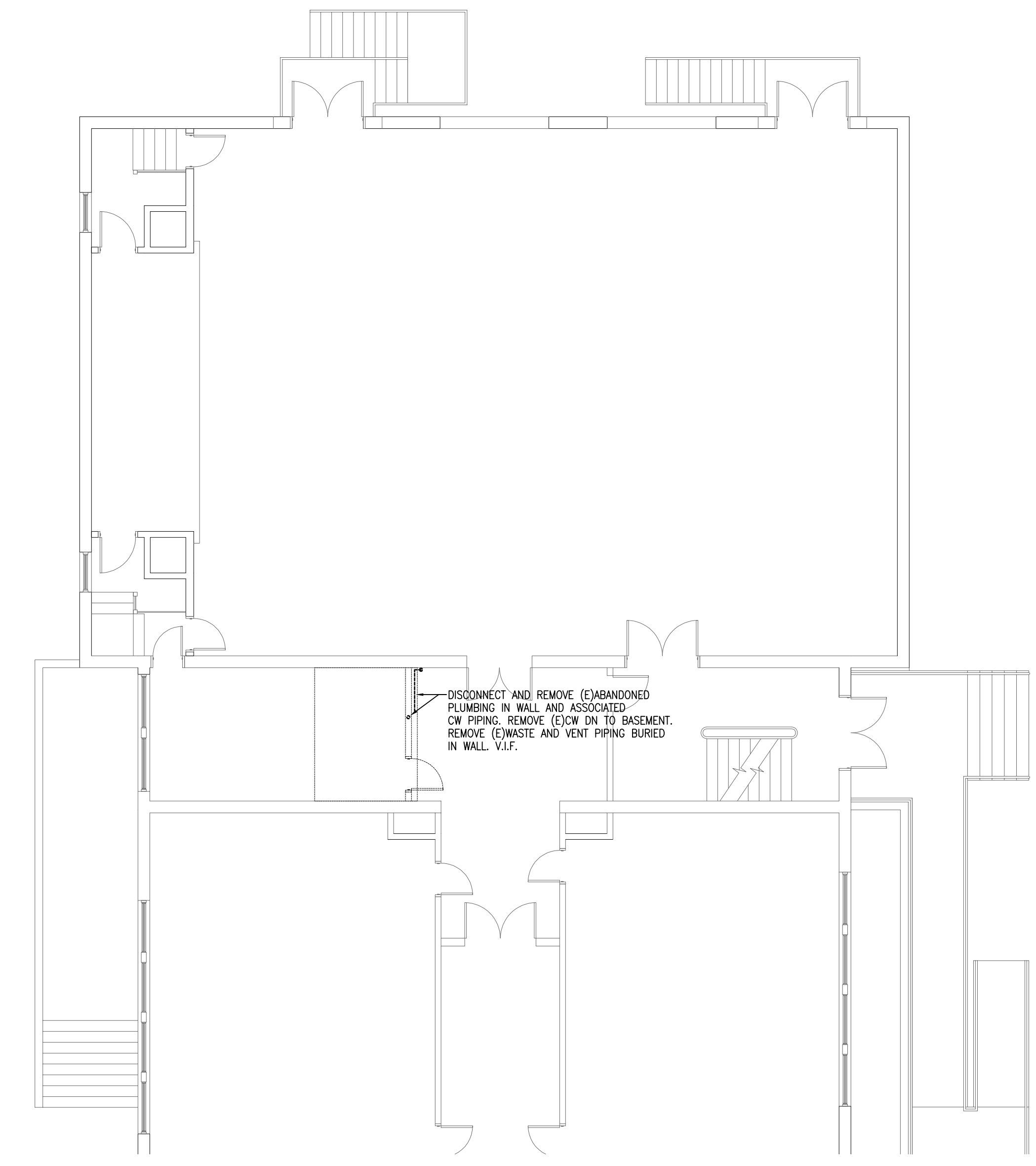
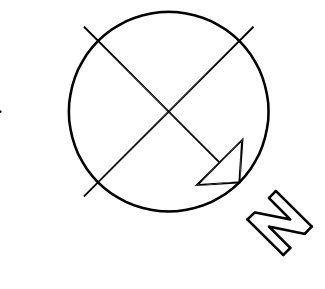
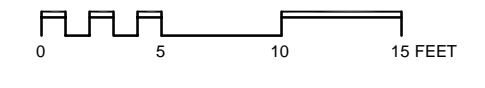
ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



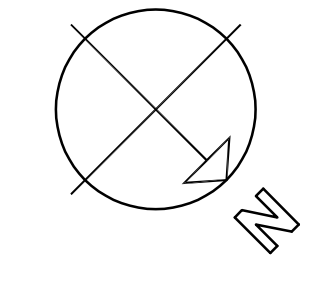
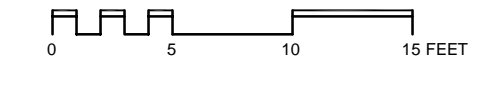
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SCALE: 1/8"=1'-0"



3 PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN  
SCALE: 1/8"=1'-0"



2 PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN  
SCALE: 1/8"=1'-0"



STAMP

REV DATE DESCRIPTION

DATE 1/11/23  
SCALE 1/8" = 1'-0"  
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CHECKED BY KRS  
PROJECT NO. 22009

BUILDING:

SHEET TITLE:

BASEMENT, FIRST AND SECOND FLOOR PLUMBING DEMOLITION PLANS

DRAWING NO.

P-101





**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

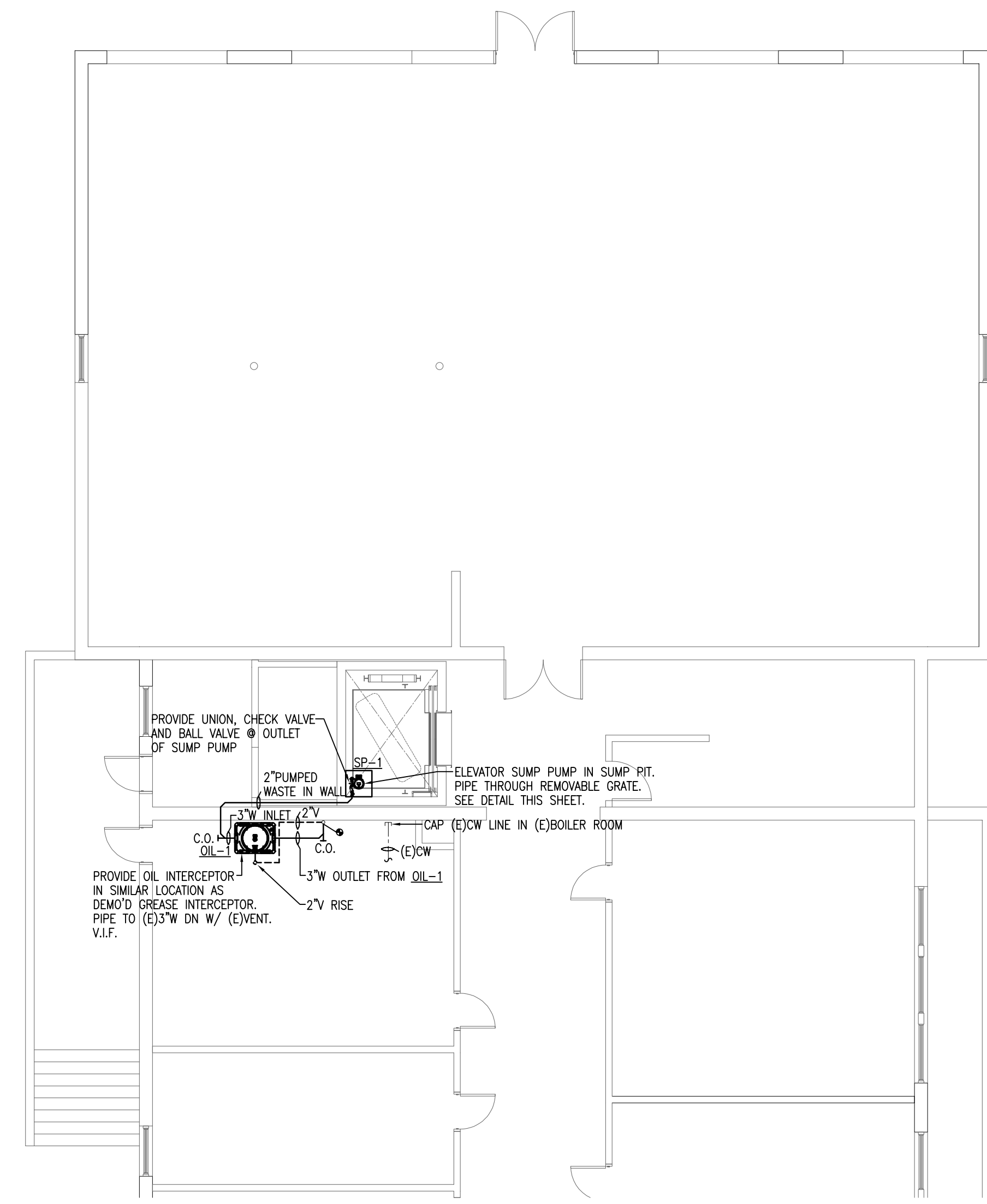
OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

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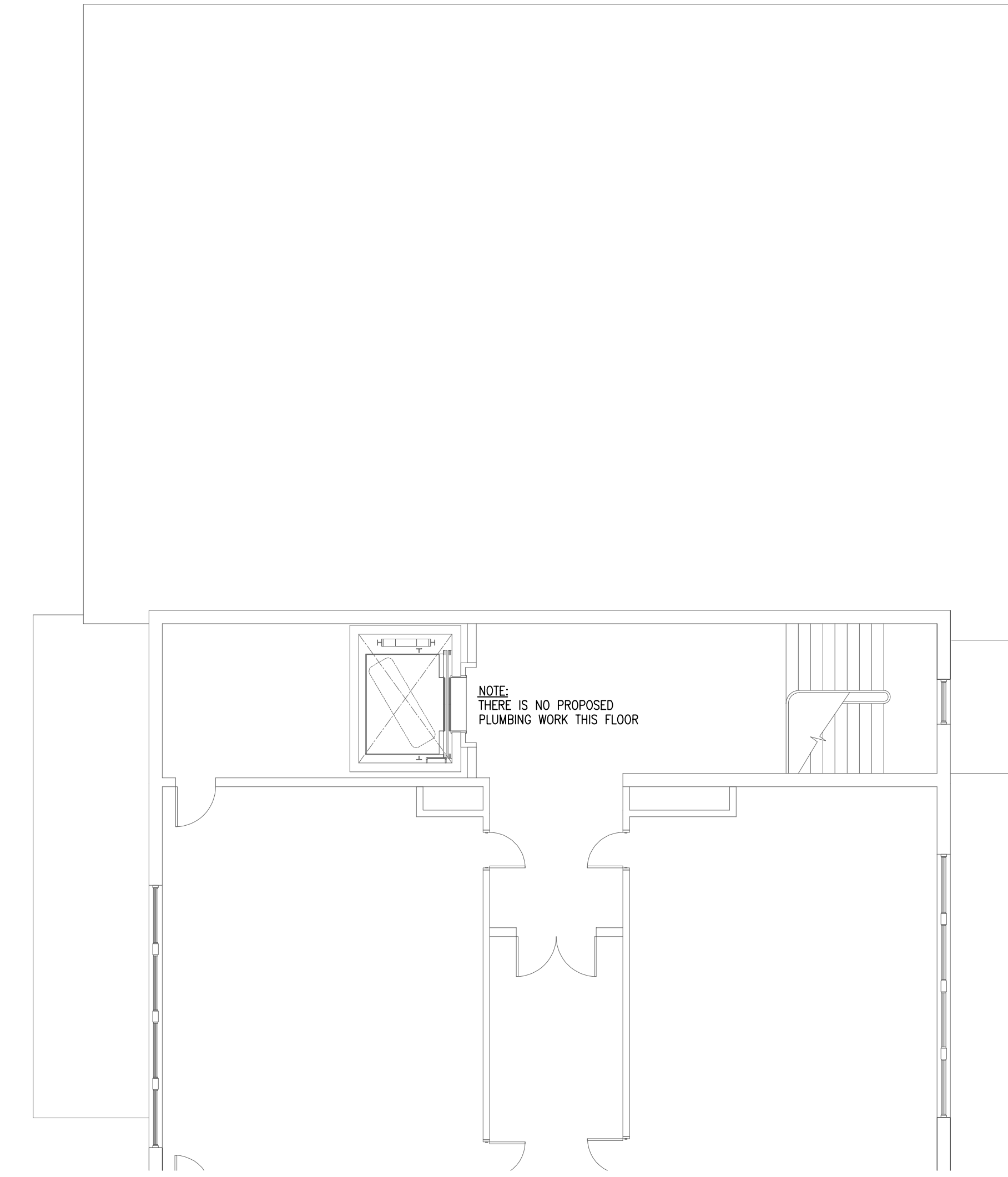
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

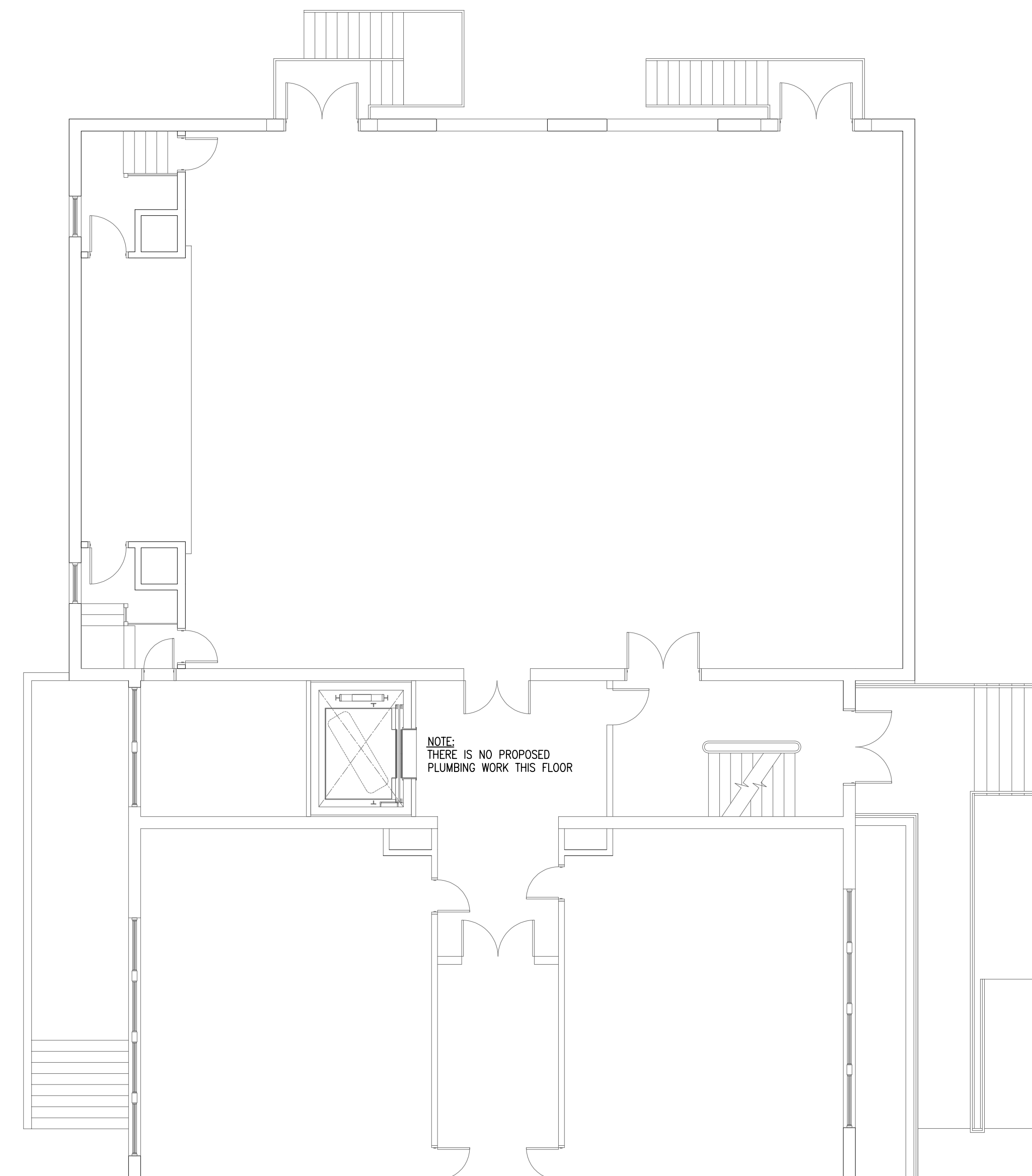
ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



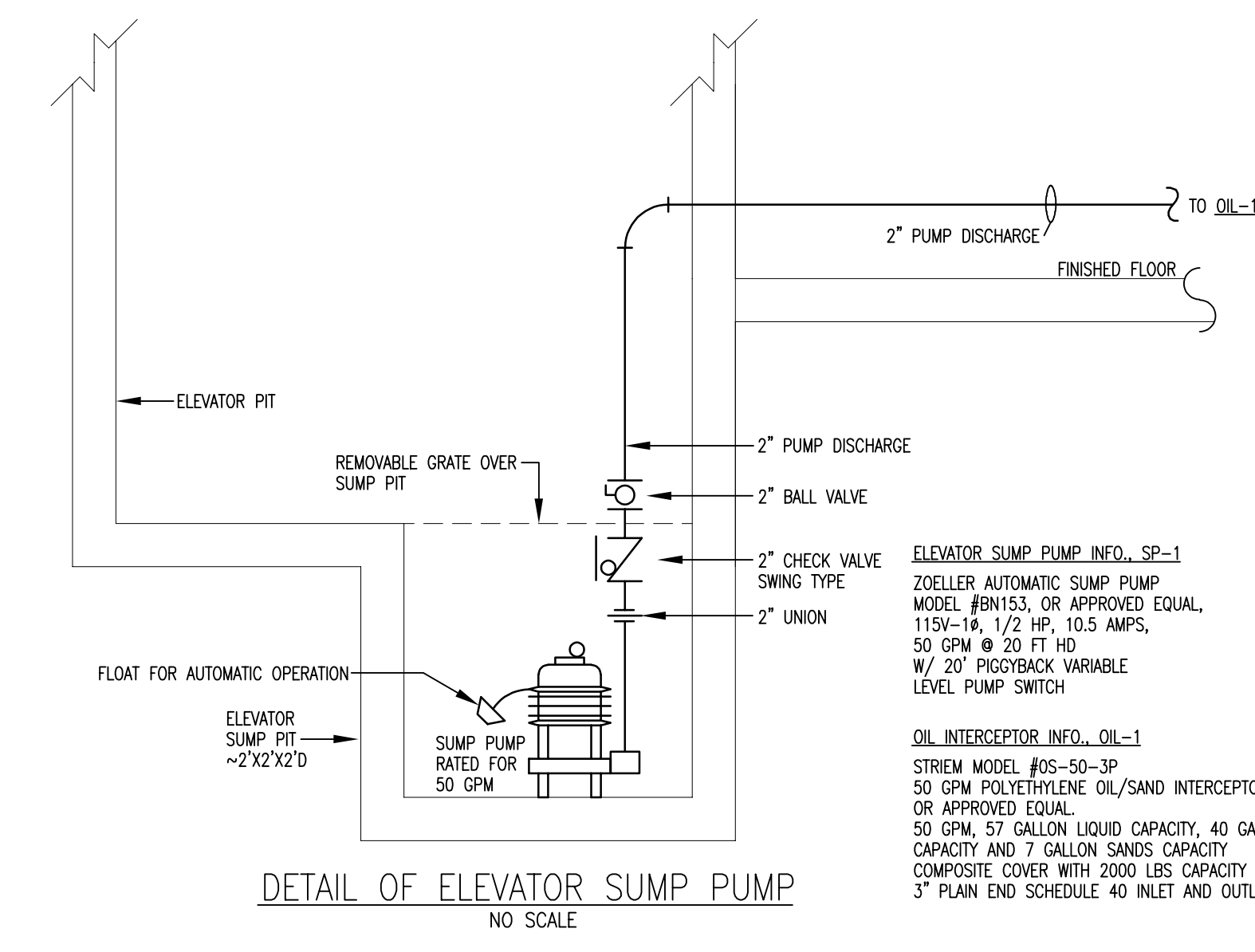
1 PARTIAL BASEMENT PROPOSED PLUMBING PLAN  
SCALE: 1/8"=1'-0"



3 PARTIAL SECOND FLOOR PROPOSED PLUMBING PLAN  
SCALE: 1/8"=1'-0"



2 PARTIAL FIRST FLOOR PROPOSED PLUMBING PLAN  
SCALE: 1/8"=1'-0"



LEGEND	
-----	PIPING/FIXTURES TO BE DEMOLISHED & REMOVED
----	EXISTING COLD WATER PIPING - (CW)
- - - -	SANITARY WASTE PIPING (W)
- · - · -	SANITARY VENT PIPING (V)
---	CLEANOUT - (C.O.)
— —	PIPE UP
— —	PIPE DOWN
(O)	BALL VALVE
(V)	CHECK VALVE
(U)	PIPE UNION
(E)	EXISTING
F.D.	FLOOR DRAIN
●	CONNECT NEW TO EXISTING
OL-1	PLUMBING EQUIPMENT CALLOUT
V.I.F.	VERIFY IN FIELD

STAMP

REV	DATE	DESCRIPTION

BUILDING:  
SHEET TITLE:  
**BASEMENT, FIRST AND  
SECOND FLOOR  
PROPOSED PLUMBING  
PLANS**



**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

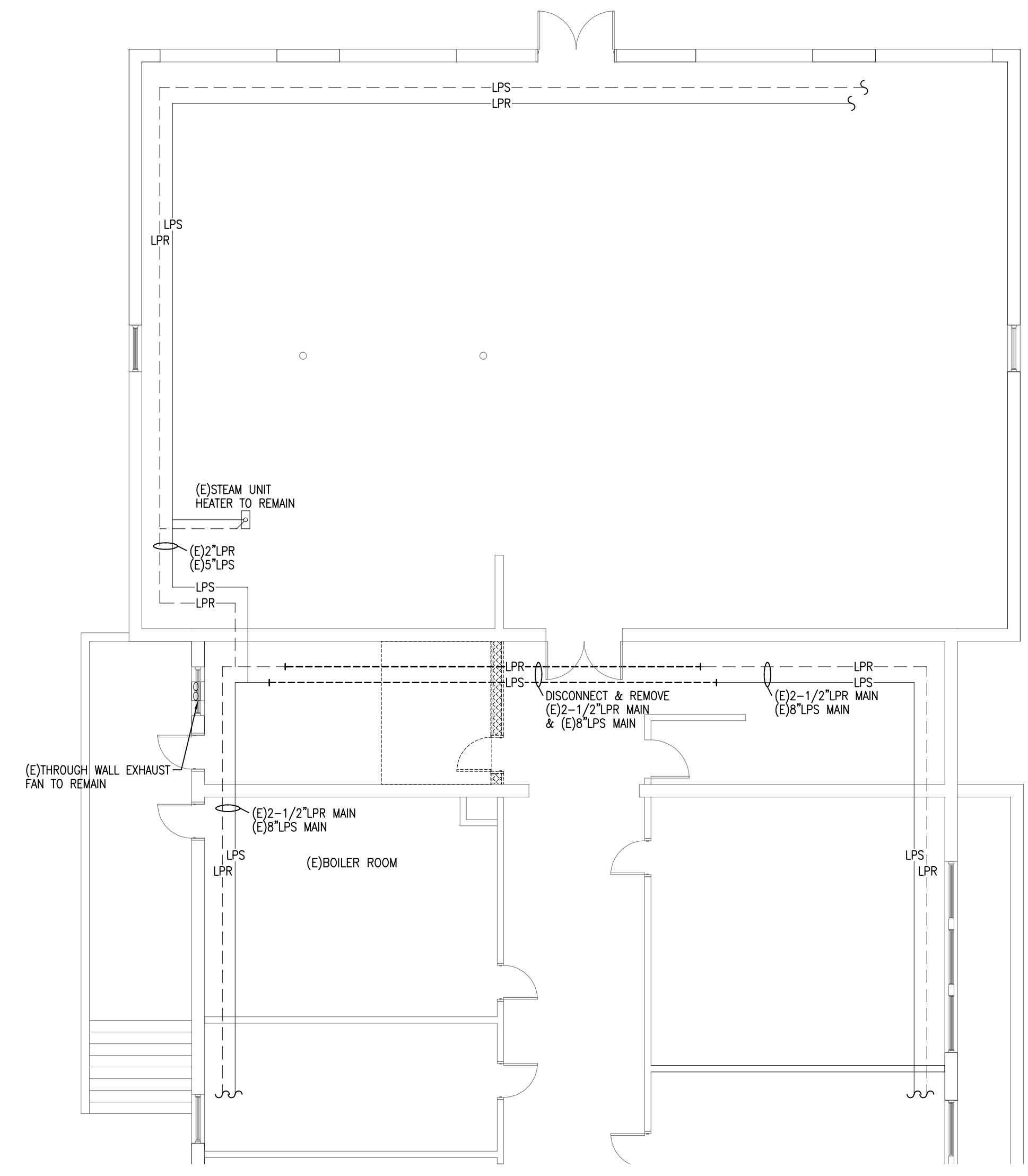
OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

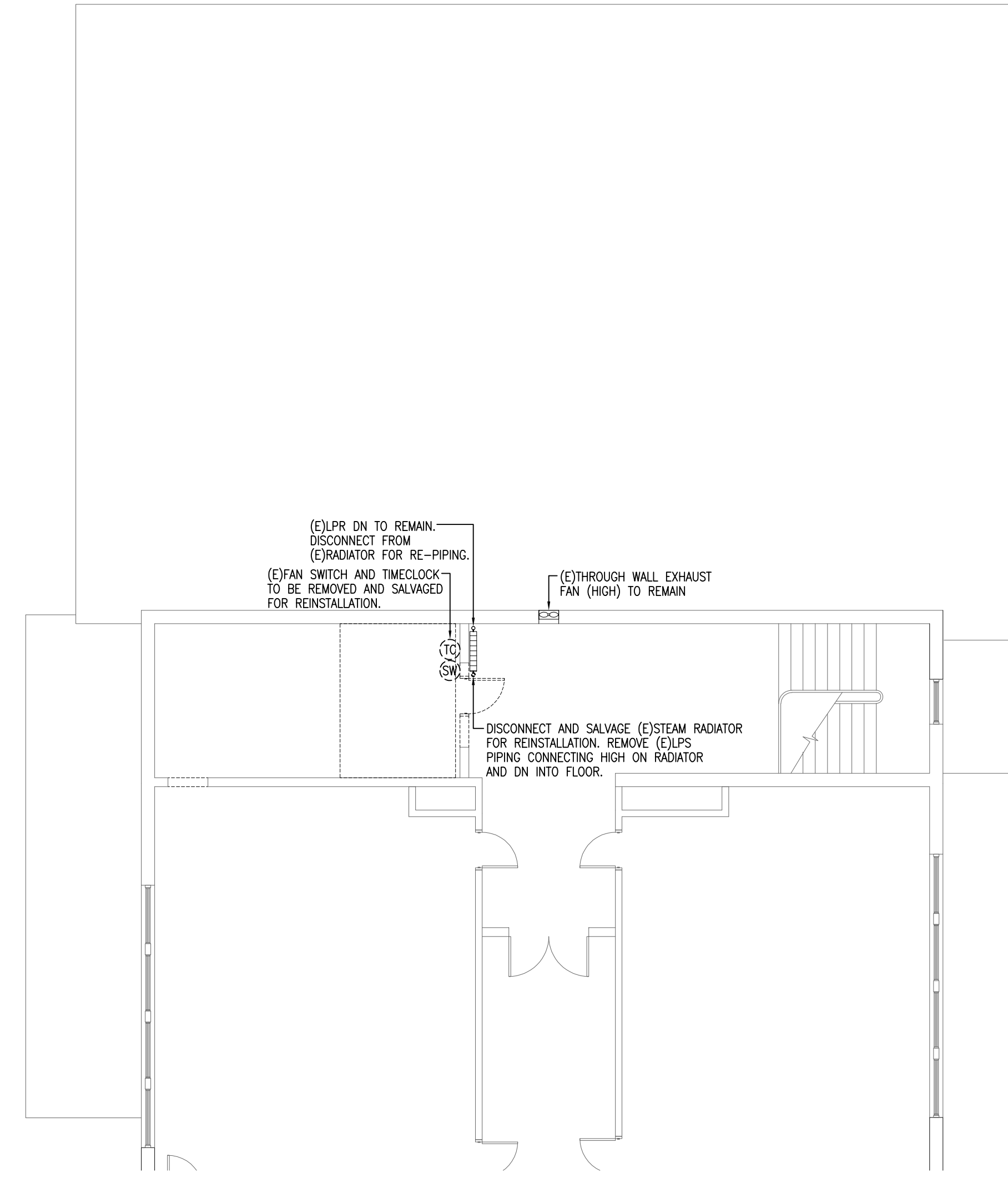
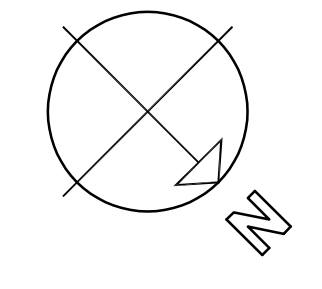
MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

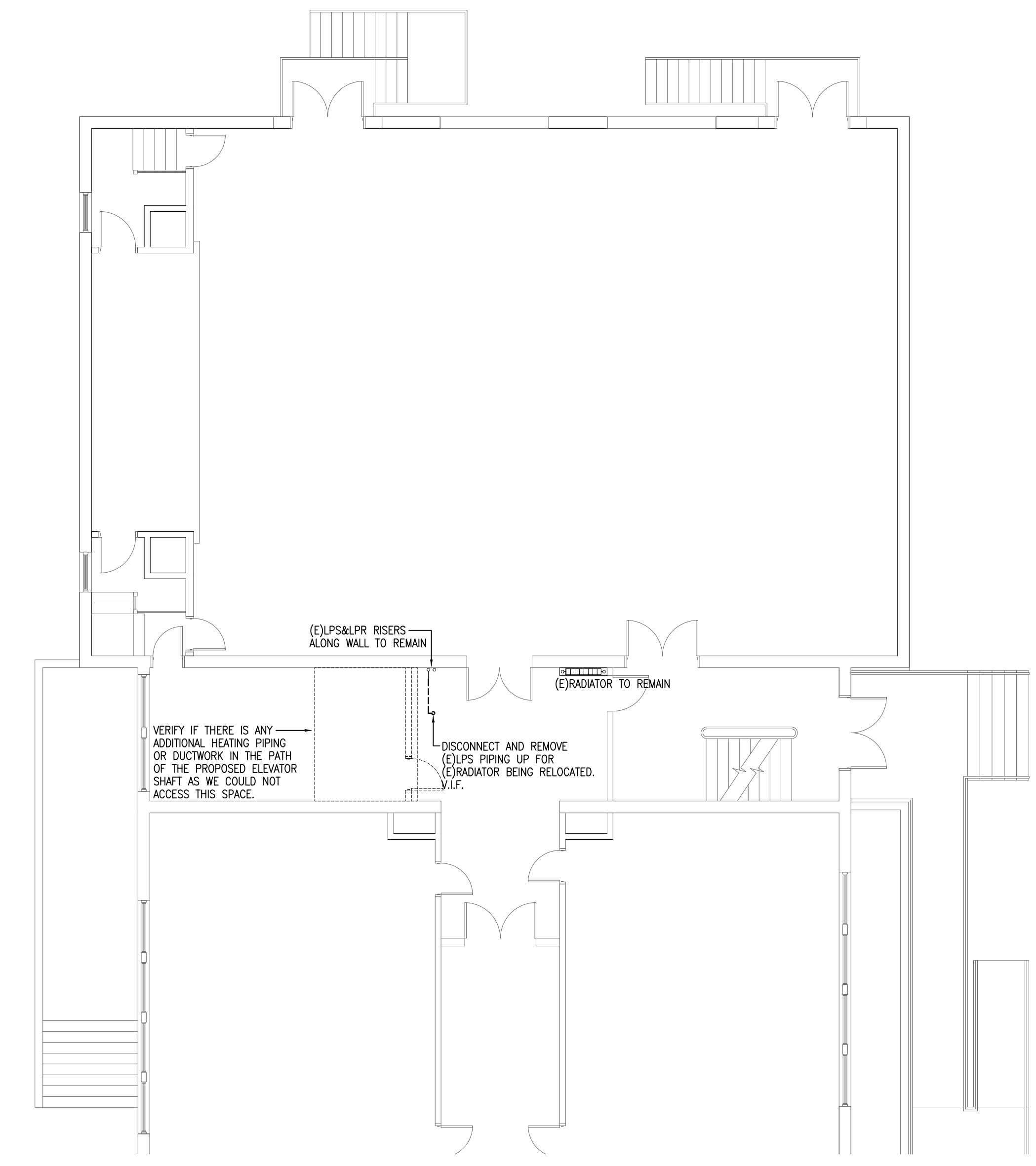
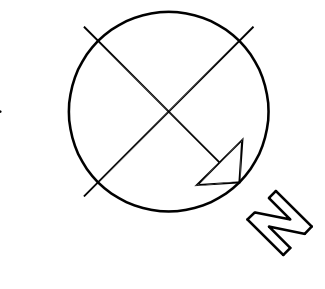
ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
10 POST OFFICE SQUARE, SUITE 725  
BOSTON, MA 02109



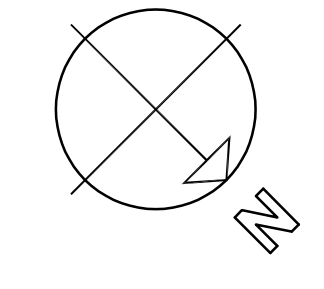
**1 PARTIAL BASEMENT HVAC DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



**3 PARTIAL SECOND FLOOR HVAC DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



**2 PARTIAL FIRST FLOOR HVAC DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/8" = 1'-0"
DRAWN BY	CDR
CHECKED BY	KRS
PROJECT NO.	22009

BUILDING:  
SHEET TITLE:  
**BASEMENT, FIRST AND  
SECOND FLOOR HVAC  
DEMOLITION PLANS**

DRAWING NO.  
**H-101**



TOWN OF GROTON

PRESCOTT SCHOOL ELEVATOR INSTALLATION

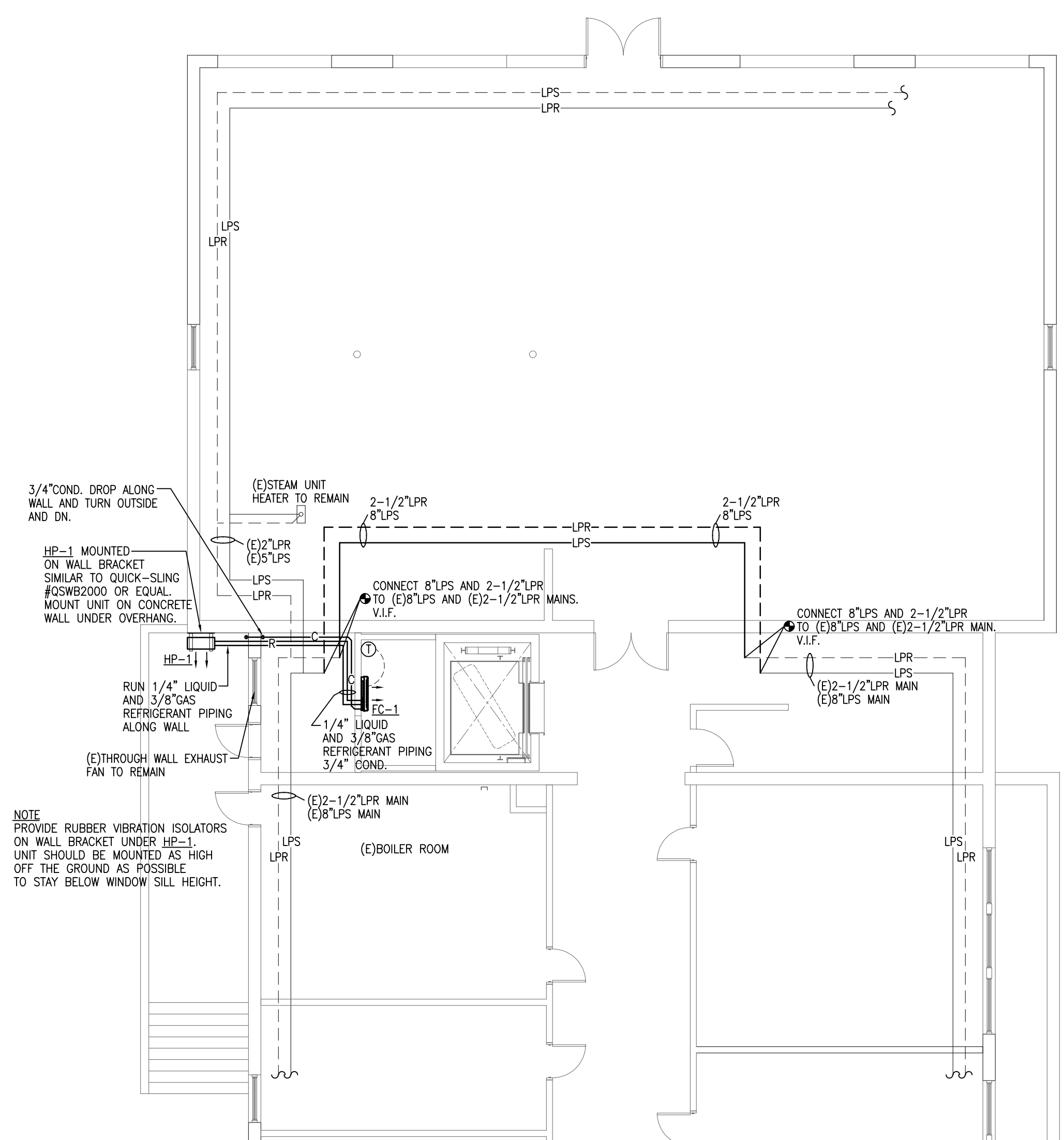
OWNER: TOWN OF GROTON 145 MAIN STREET GROTON, MA 01450

ARCHITECT: HELENE KARL Architects, Inc. 61 Skyfields Drive, Groton, Massachusetts 01450

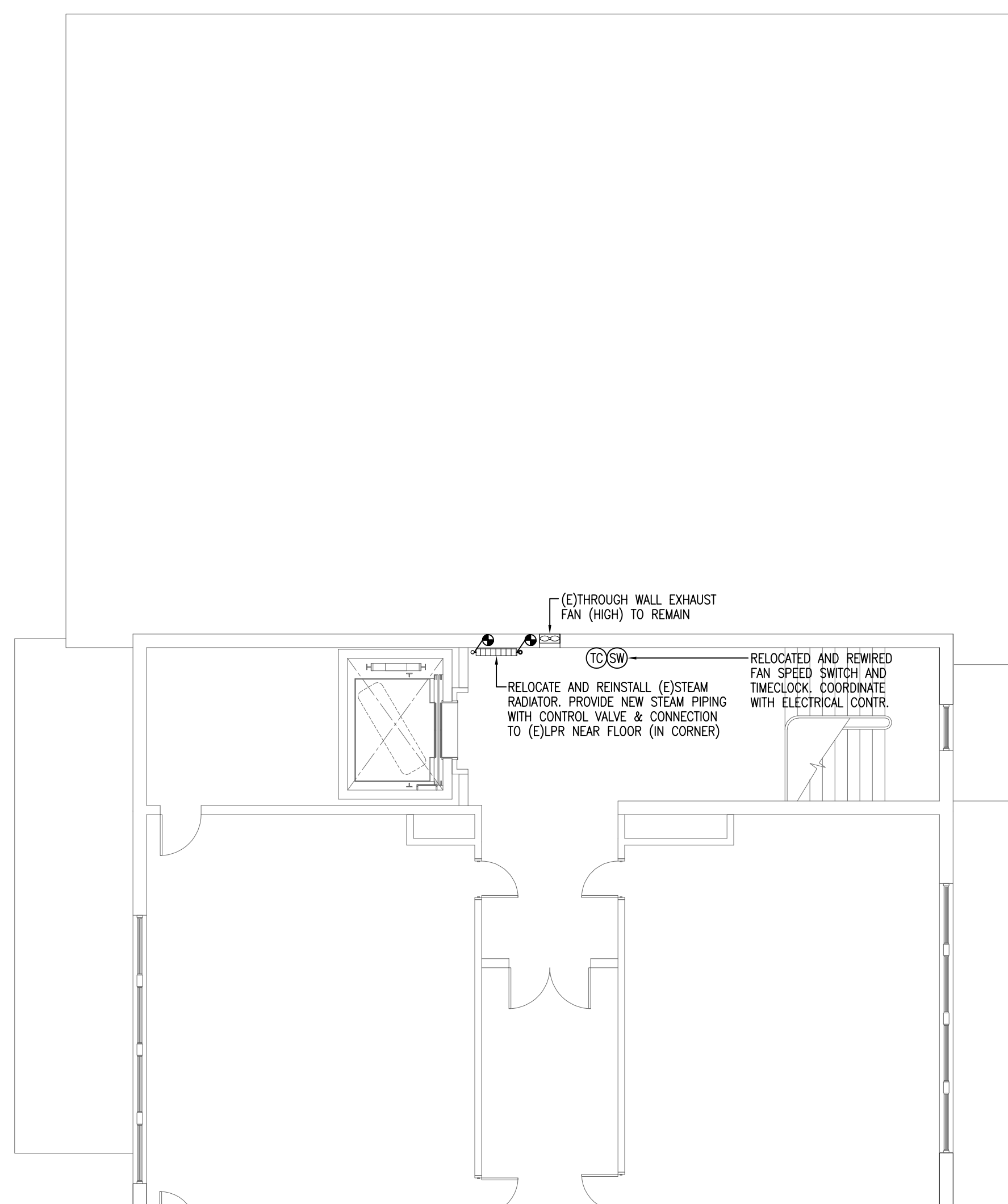
MECHANICAL ENGINEER: SEAMAN ENGINEERING CORP. 22 WEST STREET, UNIT C MILLBURY, MA 01527

ELECTRICAL ENGINEER: JOHN J. MURPHY, JR. ELECTRICAL CONSTRUCTION AND ENGINEERING, INC. 379 LIBERTY STREET ROCKLAND, MA 02370

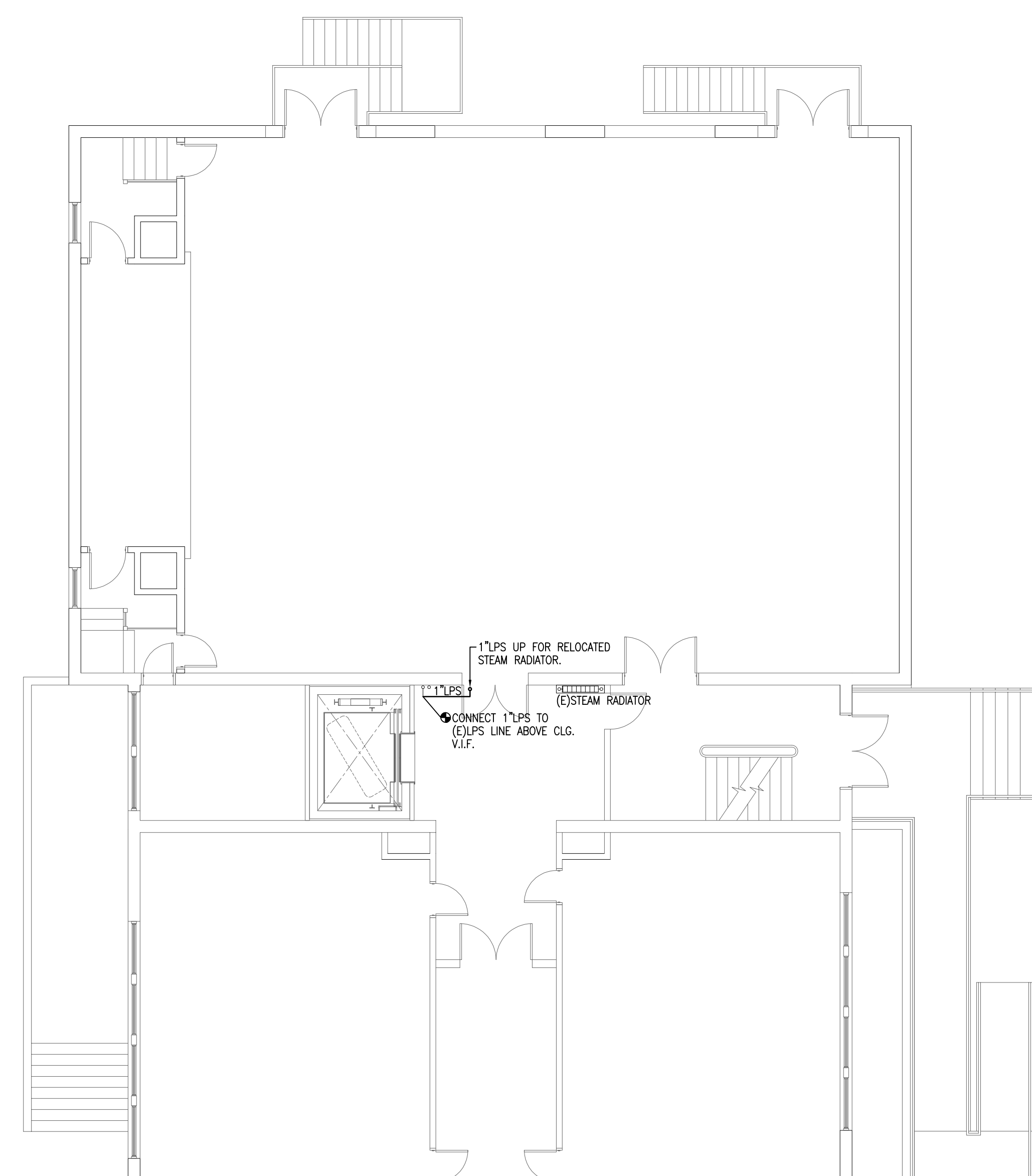
ELEVATOR CONSULTANT: SYSKA HENNESSY GROUP, INC. 10 POST OFFICE SQUARE, SUITE 725 BOSTON, MA 02109



1 PARTIAL BASEMENT PROPOSED HVAC PLAN SCALE: 1/8"=1'-0"



3 PARTIAL SECOND FLOOR PROPOSED HVAC PLAN SCALE: 1/8"=1'-0"



2 PARTIAL FIRST FLOOR PROPOSED HVAC PLAN SCALE: 1/8"=1'-0"

SYMBOLS LEGEND

- EXISTING LOW PRESSURE STEAM CONDENSATE RETURN PIPING TO BE REMOVED (LPR)
EXISTING LOW PRESSURE STEAM PIPING TO BE REMOVED (LPS)
EXISTING LOW PRESSURE STEAM CONDENSATE RETURN PIPING TO REMAIN (LPR)
EXISTING LOW PRESSURE STEAM PIPING TO REMAIN (LPS)
PROPOSED LOW PRESSURE STEAM PIPING (LPS)
PROPOSED REFRIGERANT PIPING
PROPOSED CONDENSATE DRAIN PIPING (C)
PIPING RISER UP
PIPING DROP DN
EXISTING STEAM RADIATOR
EXISTING EXHAUST FAN
WALL MOUNTED FAN COIL UNIT
OUTDOOR HEAT PUMP UNIT
PROGRAMMABLE THERMOSTAT
TIMECLOCK - BEING RELOCATED
FAN SWITCH - BEING RELOCATED
EQUIPMENT CALLOUT
CONNECT NEW TO EXISTING
EXISTING
V.I.F.
MCA
MFA
CFM

EQUIPMENT NOTES:

FC-1/HP-1 1-TON DUCTLESS SPLIT HEAT PUMP SYSTEM
208 VOLT-1PH-60HZ, MCA=8.7, MFA=15
SEER = 19, EER = 12.5, HSPF = 10.0, COP = 3.8
MAX. PIPING LENGTH = 65.6 FT, MAX. HEIGHT DIFFERENCE = 49 FT.
INDOOR HIGH-WALL FAN COIL/ evaporator
DAKIN MODEL #FTX12AXXU, 22 LBS
436/316/247/210 CFM @ HI, MED, LO AND SUPER LO SPEEDS
10,000 BTUH TOTAL, 9,000 BTUH SENSIBLE COOLING CAPACITY
13,500 BTUH HEATING CAPACITY @ 47F, 8,600 BTUH HEATING CAPACITY @ 17F
208 VOLT-1PH-60 HZ, POWERED THROUGH CONDENSING UNIT
PROVIDE HARD-WIRED PROGRAMMABLE THERMOSTAT, NOT WIRELESS.
3/8" SUCTION, 1/4" LIQUID REFRIG. CONNECTIONS.
OUTDOOR HEAT PUMP UNIT: DAKIN MODEL #RX12AXXU
AIRFLOW = 1-21 CFM, WEIGHT = 64 LBS
208 VOLT-1PH-60HZ, RL4-ES3
PROVIDE DISCONNECT SWITCH
PROVIDE WALL MOUNTED UNIT SUPPORT SIMILAR TO QUICK-SLING OR EQUAL MOUNT UNIT 24" ABOVE FINISHED GRADE.

Table with columns: REV, DATE, DESCRIPTION

Table with columns: DATE, SCALE, DRAWN BY, CHECKED BY, PROJECT NO.

BUILDING: SHEET TITLE: BASEMENT, FIRST AND SECOND FLOOR PROPOSED HVAC PLANS

DRAWING NO. H-102





# TOWN OF GROTON

## PRESCOTT SCHOOL ELEVATOR INSTALLATION

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

MECHANICAL ENGINEER:  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
JOHN J. MURPHY, JR., ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	NTS
DRAWN BY	MTG
CHECKED BY	JJM
PROJECT NO.	22009

BUILDING:  
SHEET TITLE:  
**ELECTRICAL LEGEND**

DRAWING NO.  
**E-001**

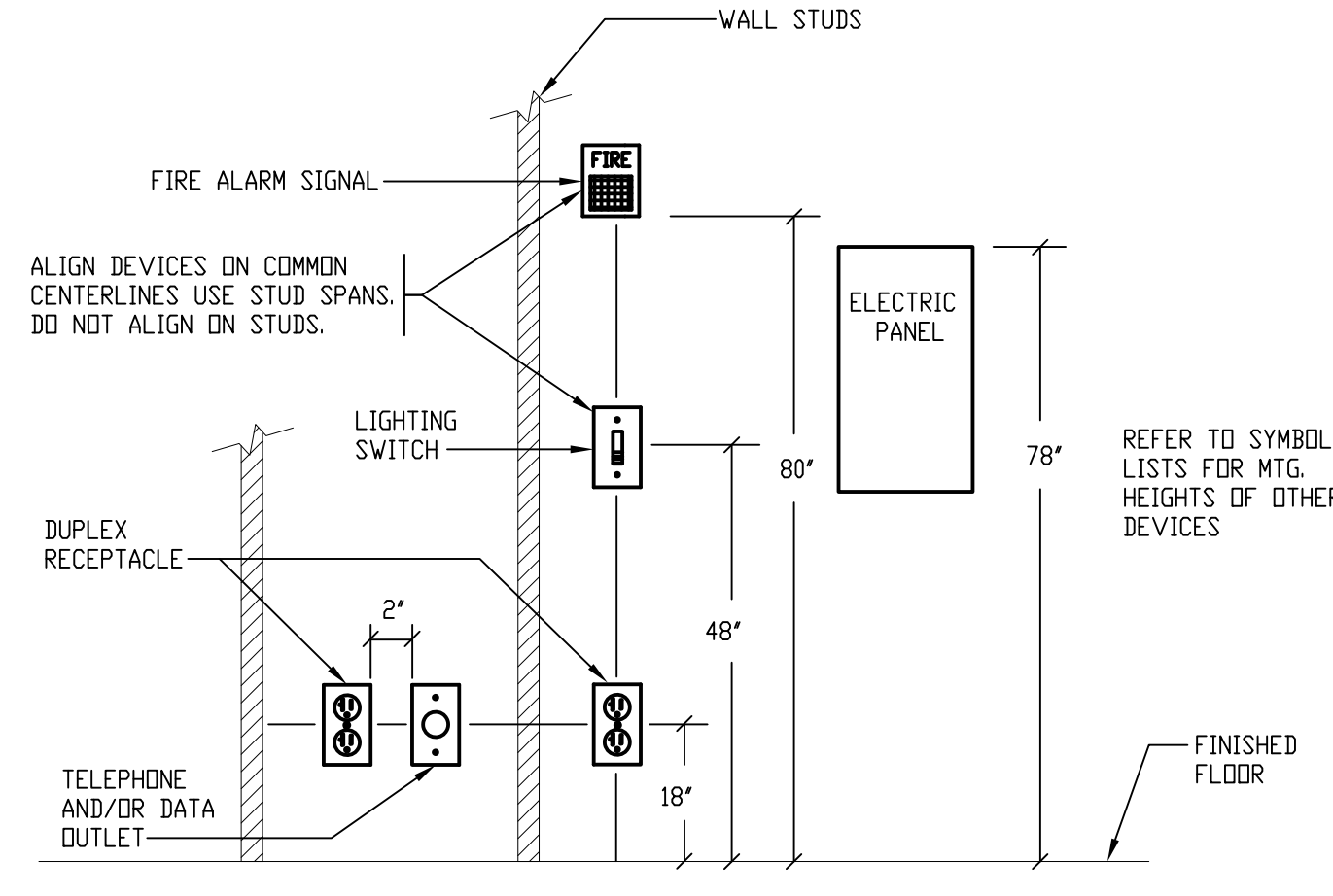
### LIGHTING FIXTURE SCHEDULE

ALL FIXTURES SHALL BE FURNISHED COMPLETE WITH ALL HARDWARE, LAMPS, HANGERS, FITTING, ETC., FOR A COMPLETE AND PROPER INSTALLATION.

TYPE	MANUFACTURER	CATALOG NO.	MTG.	MTG HEIGHT	VOLTAGE	INPUT WATTS	LUMENS	LAMPS			REMARKS
								No.	WATTAGE	TYPE	
F14	TCP	TCPGPS4U2DAB035K	S	120	32	-	4,200	-	-	LED	
F4	UTOPIA	TRY-24-36LED-35K-UNV-GR	S	120	32	-	4,200	-	-	LED	

#### LIGHTING FIXTURE GENERAL NOTES:

- ALL BALLASTS SHALL BE OF THE ENERGY SAVINGS, HIGH POWER FACTOR TYPE, AND THD LESS THAN 10%.
- FURNISH FIXTURES WITH ALL REQUIRED MOUNTING HARDWARE. WHERE RECESSED LIGHTING FIXTURES ARE TO BE INSTALLED IN PLASTER, ACUSTIC TILE OR GYPSUM BOARD, PLASTER FRAMES, FINISH TRIM, FITTINGS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED TO MEET THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AT EACH LOCATION.
- ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH THE REQUIRED LAMPS AND SHALL BE RATED 120-VOLTS UNLESS OTHERWISE NOTED. LAMPS SHALL BE SP35 (4500K) UNLESS OTHERWISE NOTED.
- SINGLE OR DOUBLE FACE AS REQUIRED, REFER TO FLOOR PLANS. MOUNT ON CEILING UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- ALL SHOWER FIXTURES ARE TO BE WIRED THRU GFI RECEPTACLE.



1 TYPICAL DEVICE MOUNTING DETAIL  
SCALE: NTS

- NOTES:
- MOUNTING HEIGHTS CONFORM TO THE AMERICAN DISABILITIES ACT (ADA). FAILURE TO MEET THESE MINIMUM HEIGHTS SHALL RESULT IN REINSTALLATION OF DEVICES, BOXES, AND WIRING.
  - ALL MOUNTING HEIGHTS FOR HANDICAP ACCESS SHALL NOT EXCEED THAT FOR FORWARD REACH FROM A WHEELCHAIR (48" AFF.). THIS APPLIES TO ALL SWITCHES, AREA OF RESCUE PHONES, INTERCOMS (521CMR, 6.5).
  - ALL OUTLETS SHALL BE PLACED A MINIMUM OF 18" AWAY FROM INSIDE CORNERS (521CMR, 9.5.6).

### EXISTING EQUIPMENT

DOTTED DENOTES EXISTING EQUIPMENT.

- X EXISTING EQUIPMENT TO BE REMOVED AND CIRCUIT PULLED BACK TO NEXT ACTIVE OUTLET/BACK TO PANEL.
- XM EXISTING EQUIPMENT TO REMAIN.
- XR EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED.
- XL NEW LOCATION OF RELOCATED EXISTING EQUIPMENT.
- XN EXISTING EQUIPMENT TO BE REMOVED AND NEW EQUIPMENT TO BE INSTALLED IN SAME LOCATION.

### SITE SYMBOLS

- POLE MOUNTED LIGHTING FIXTURE - SINGLE HEAD
- POLE MOUNTED LIGHTING FIXTURE - DOUBLE HEAD
- EH ELECTRIC MANHOLE
- TH TELEPHONE MANHOLE
- HH HAND HOLE

### MISCELLANEOUS

- SSA SOUND SYSTEM AMPLIFIER
- CR CARD READER
- ES ELECTRIC DOOR STRIKE
- RTB REQUEST TO EXIT
- PS POWER SUPPLY
- EP PUSH PLATE

### MECHANICAL EQUIPMENT

- JUNCTION BOX - SIZE AS REQUIRED.
- JUNCTION BOX - WITH FLEXIBLE CONNECTION TO EQUIPMENT.
- Mechanical damper with thermal switch furnish and install by electrical contractor.
- MOTOR - NUMERAL INDICATES HORSEPOWER
- NEMA 3R HEAVY DUTY DISCONNECT SWITCH FUSED DISCONNECT SWITCH
- UNFUSED DISCONNECT SWITCH
- INDICATES TIME DELAY FUSE SIZE.
- INDICATES SAFETY SWITCH SIZE
- MAGNETIC MOTOR STARTER.
- COMBINATION FUSED DISCONNECT AND MOTOR STARTER.
- HORSEPOWER RATED THERMAL SWITCH WITH PILOT LIGHT
- MECHANICAL TAG REFER TO MECHANICAL SCHEDULE FOR EXACT EQUIPMENT TYPE, DESIGNATION, AND SPECIFICATIONS. ALL EQUIPMENT TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.

### POWER

- 120/208 VOLT, 3 PHASE, 4 WIRE PANELBOARD. (SURFACE MOUNTED)
- 120/208 VOLT, 3 PHASE, 4 WIRE PANELBOARD. (RECESSED)
- METER
- AUTOMATIC TRANSFER SWITCH
- SERVICE GROUND
- GROUND BAR
- CIRCUIT BREAKER
- SURGE PROTECTION DEVICE

### RECEPTACLES (MOUNTED 18" AFF. TO Ⓠ - UNLD)

- 20AMP, 120VOLT SINGLE RECEPTACLE
- 20AMP, 120VOLT DUPLEX OUTLET; "C" INDICATES MTD. @ 42" AFF. OR ABOVE COUNTER.
- 20AMP, 120VOLT DOUBLE DUPLEX OUTLET. "C" INDICATES MTD. 42" AFF. OR ABOVE COUNTER.
- 20AMP, 120VOLT DUPLEX OUTLET; "TR" INDICATES TAMPER RESISTANT
- 20AMP, 120VOLT DUPLEX - GROUND FAULT INTERRUPTER TYPE MTD. 42" UP OR ABOVE COUNTER, "WFP" INDICATES GFCI WITH WEATHER PROOF COVER MTD. 18" UP.
- SPECIAL PURPOSE OUTLET - RATING AS INDICATED SPECIAL PURPOSE RECEPTACLE SCHEDULE
- POWER POLE
- FLEXIBLE CONNECTION
- CONTROL PANEL

### FIRE ALARM SYSTEM

- MANUAL PULL STATION - MTD 48" AFF TO CENTERLINE
- AUDIO/VISUAL SIGNAL - MTD 80" AFF TO CENTERLINE SHALL ALSO MEET ADA REQUIREMENTS
- VISUAL ONLY SIGNAL - MTD 80" AFF TO CENTERLINE SHALL ALSO MEET ADA REQUIREMENTS
- COMBINATION CEILING MOUNTED PHOTOELECTRIC SMOKE/CARBON MONOXIDE DETECTOR
- CEILING MOUNTED PHOTOELECTRIC SMOKE DETECTOR
- ELEVATOR RECALL SMOKE DETECTOR
- THERMAL DETECTOR - 135°F FIXED TEMPERATURE AND RATE OF RISE.
- THERMAL DETECTOR - 200°F FIXED TEMPERATURE
- REMOTE ALARM INDICATOR
- KEY OPERATED REMOTE TEST STATION WITH LED.
- MONITOR MODULE
- ISOLATION MODULE
- CONTROL MODULE
- FIRE ALARM CONTROL PANEL
- FIRE ALARM TERMINAL CABINET
- FIRE ALARM POWER SUPPLY
- FIRE ALARM ANNUNCIATOR
- BI-DIRECTIONAL AMPLIFIER
- KNOX BOX
- RADIO BOX
- MASTER BOX
- RED FIRE ALARM BEACON
- TRANSPONDER
- CARBON MONOXIDE DETECTOR
- AREA OF REFUGE PHONE
- BI-DIRECTIONAL ANTENNA. AH INDICATES THE ANTENNA NUMBER

### LOW TENSION EQUIPMENT

- WALL MOUNTED TELEPHONE OUTLET @ 18" AFF. WITH ONE CAT 6 CABLE IN 3/4" CONDUIT SLEEVE TURNED OUT ABOVE NEAREST ACCESSIBLE HUNG CEILING. "W" INDICATES 60" AFF.
- COMBINATION TELEPHONE/DATA OUTLET @ 18" AFF. WITH 2 CAT 6 CABLES IN 3/4" CONDUIT SLEEVE TURNED OUT ABOVE NEAREST ACCESSIBLE HUNG CEILING
- COMBINATION TELEPHONE/DATA OUTLET @ 18" AFF. - SAME DETAIL AS REGULAR TELEPHONE OUTLET. 1 INDICATES QUANTITY OF TELEPHONE JACKS. 2 INDICATES TWO QUANTITY OF DATA JACKS.
- WALL MOUNTED DATA OUTLET @ 18" AFF. WITH ONE CAT 6 CABLE IN 3/4" CONDUIT TURNED OUT ABOVE NEAREST ACCESSIBLE HUNG CEILING.

### LIGHTING FIXTURES

(REFER TO SCHEDULE FOR TYPE AND MOUNTING)

- FLUORESCENT LIGHT FIXTURE.
- FIXTURE ON "CONSTANT" - DM' NITE LIGHT CIRCUIT.
- EXIT SIGN. CONNECT TO AREA LIGHTING CIRCUIT (CONSTANT DM)
- 12V EMERGENCY BATTERY UNIT AS SPECIFIED ON DRAWING. CONNECT TO AREA LIGHTING CIRCUIT (CONSTANT DM)
- INCANDESCENT FLUORESCENT OR H.I.D. LIGHT FIXTURE.
- WALL MOUNTED FIXTURE
- REMOTE MOUNTED EMERGENCY FIXTURE.
- FIXTURE KEYING SYSTEM A1 = FIXTURE TYPE  
32= CIRCUIT #  
b= SWITCH CONTROL.

### SWITCHES (TYPICALLY MTD 48" AFF - UNLD)

- S SINGLE POLE SWITCH.
- S<sub>3</sub> THREE-WAY SWITCH.
- S<sub>2</sub> SINGLE POLE SWITCH AND PILOT LIGHT.
- S<sub>4</sub> FOUR-WAY SWITCH.
- S<sub>1</sub> DIMMER SWITCH ROTARY TYPE - 600 WATTS UNLD.
- S<sub>1a</sub> ACUITY CONTROLS WSX-D DIMMING OCCUPANCY WALL SENSOR (PIR) WITH ADAPTIVE DAYLIGHT HARVESTING. EQUAL TO WSX-PDT-D-SA. COORDINATE SET POINTS FOR DAYLIGHT HARVESTING WITH THIRD PARTY COMMISSIONING AGENT.
- S<sub>1c</sub> KEY SWITCH
- S<sub>1b</sub> WATT STOPPER DUAL TECHNOLOGY WALL SWITCHES SENSORS EQUAL TO DW-100.
- S<sub>1b</sub> WATT STOPPER BI-LEVEL SWITCH MODEL # DSW-200 DUAL TECHNOLOGY "a"-type DESIGNATES SWITCH CONTROL.
- S<sub>1b</sub> ACUITY CONTROLS WSX-D DIMMING OCCUPANCY WALL SENSOR (PIR) WITH ADAPTIVE DAYLIGHT HARVESTING. EQUAL TO WSX-PDT-D-SA. COORDINATE SET POINTS FOR DAYLIGHT HARVESTING WITH THIRD PARTY COMMISSIONING AGENT.
- S<sub>1b</sub> ACUITY CONTROLS WSX-D DIMMING OCCUPANCY WALL SENSOR (PIR) WITH ADAPTIVE DAYLIGHT HARVESTING. EQUAL TO WSX-PDT-D-SA. COORDINATE SET POINTS FOR DAYLIGHT HARVESTING WITH THIRD PARTY COMMISSIONING AGENT.
- S<sub>1b</sub> CEILING MOUNTED MOTION DETECTOR DT-300 DUAL TECHNOLOGY.
- S<sub>1b</sub> WATT STOPPER DUAL TECHNOLOGY CEILING/ WALL SENSOR. EQUAL TO MODEL # DT-200
- S<sub>1b</sub> STOP/START PUSH BUTTON STATION WITH PILOT LIGHT - FLUSH MOUNTED.
- RELAY LIGHTING RELAYS SWITCH FOR NORMAL TO EMERGENCY POWER.

### WIRE AND RACEWAYS

- WIRING AND RACEWAY - NO. OF DIAGONAL LINES INDICATES NO. #12 AWG. ABSENCE OF LINES INDICATES 2 #12 AWG - UNLESS NOTED OTHERWISE. "G" INDICATES INSULATED GROUND WIRE.
- HOME RUN TO PANEL - NO. OF ARROWS INDICATES NO. OF 20AMP/1 POLE CIRCUITS TO PANEL - UNLESS NOTED OTHERWISE.
- EMERGENCY ONLY WIRING - MIN. 2#10 AWG HOME RUN TO EMERG. BATTERY IN SEPARATE 1/2" CONDUIT
- NORMAL EMERGENCY WIRING - MIN. 2#10 AWG TO RUN IN SEPARATE 1/2" CONDUIT.
- LV LOW VOLTAGE SWITCHING SYSTEM WIRING.
- P UNDERGROUND PRIMARY ELECTRIC SERVICE
- S UNDERGROUND SECONDARY ELECTRIC SERVICE
- T UNDERGROUND TELEPHONE SERVICE
- CTV UNDERGROUND CABLE TV SERVICE
- UFA UNDERGROUND FIRE ALARM SERVICE

### ABBREVIATIONS

A AMPERES OR ANTENNA	ENF ENTRANCE FACILITY	MTR MOTOR	BUSBAR
ADA AMERICANS WITH DISABILITIES ACT	EDLR END OF LINE RESISTOR	NAC NOTIFICATION APPLIANCE CIRCUITS	TMCB THERMAL MAGNETIC CIRCUIT BREAKER
AFF ABOVE FINISH FLOOR	EQ EQUAL	NC NORMALLY CLOSED	TMCB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
AFG ABOVE FINISH GRADE	EVC ELECTRIC WATER COOLER	NEC NATIONAL ELECTRIC CODE	TR TAMPER RESISTANT
AHJ AUTHORITY HAVING JURISDICTION	EX EXISTING	NEMA NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION	TELRM TELECOMMUNICATIONS ROOM
AIC AMPERE INTERRUPTING CAPACITY	F FUSE	NFPA NATIONAL FIRE PROTECTION ASSOCIATION	UG UNDERGROUND
AL ALUMINUM	F&I FURNISHED AND INSTALLED	FA FIRE ALARM	UL UNDERWRITERS LABORATORIES
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	FD FIRE DEPARTMENT	FLA FULL LOAD AMPERES	UNLD UNLESS NOTED OTHERWISE
ARCH ARCHITECT	FLA FULL LOAD AMPERES	FMC FLEXIBLE METAL CONDUIT	V VOLT
ATC AUTOMATIC TEMPERATURE CONTROL	FT FEET	GC GENERAL CONTRACTOR	VAV VARIABLE AIR VOLUME BOX
AWG AMERICAN WIRE GAUGE	GFCI GROUND FAULT INTERRUPTER	HAL HEAVY LIGHT	VD VOLTAGE DROP
BFG BELOW FINISH GRADE	HBL HEAVY LIGHT	HVA HAND OFF, AUTOMATIC SWITCH	VFD VARIABLE FREQUENCY DRIVE
BLDG BUILDING	HVAC HEATING, VENTILATION, AND AIR CONDITIONING CONTRACTOR	IBC INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	VV WIRELESS ACCESS POINT
C CONDUIT	IEEC INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	INT INITIATING DEVICE CIRCUITS	W WITH
CB CIRCUIT BREAKER	IBC INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	INT INTERLOCK	WG WIRE GUARD
CKT CIRCUIT	INT INTERLOCK	ISc SHORT CIRCUIT CURRENT	WM WIRE MILD
CLF CURRENT LIMITING FUSE	ISc SHORT CIRCUIT CURRENT	KAIC THOUSAND AMPERE INTERRUPTING CAPACITY	WPR WEATHER PROOF TRANSFORMER
CLG CEILING	KAIC THOUSAND AMPERE INTERRUPTING CAPACITY	KCMIL THOUSAND CIRCULAR MILS	Δ DELTA
CO CARBON MONOXIDE	KCMIL THOUSAND CIRCULAR MILS	KVA KILOVOLT AMPERES	Y WYE
CU COPPER	KVA KILOVOLT AMPERES	KW KILLOWATTS	∅ PHASE
DIA DIAMETER	KW KILLOWATTS	MC METAL CLAD CABLE	
DN DOWN	MC METAL CLAD CABLE	MCB MAIN CIRCUIT BREAKER	
DWG DRAWING	MCB MAIN CIRCUIT BREAKER	MH MOUNTING HEIGHT	
EBB ELECTRIC BASEBOARD HEATER. COORDINATE OVCURRENT DEVICE AND WIRE SIZES W/ MECHANICAL EQUIPMENT NAMEPLATE DATA.	MH MOUNTING HEIGHT	MLD MAIN LOGS ONLY	
E.C. ELECTRICAL CONTRACTOR	MLD MAIN LOGS ONLY		
EF EXHAUST FAN			
EM EMERGENCY			
ENT ELECTRICAL METALLIC TUBING			



**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

**OWNER:**  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

**ARCHITECT:**  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

**MECHANICAL ENGINEER:**  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

**ELECTRICAL ENGINEER:**  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

**ELEVATOR CONSULTANT:**  
SYSKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140

STAMP

REV	DATE	DESCRIPTION

DATE 1/11/23

SCALE 1/8" = 1'-0"

DRAWN BY MTG

CHECKED BY JJM

PROJECT NO. 22009

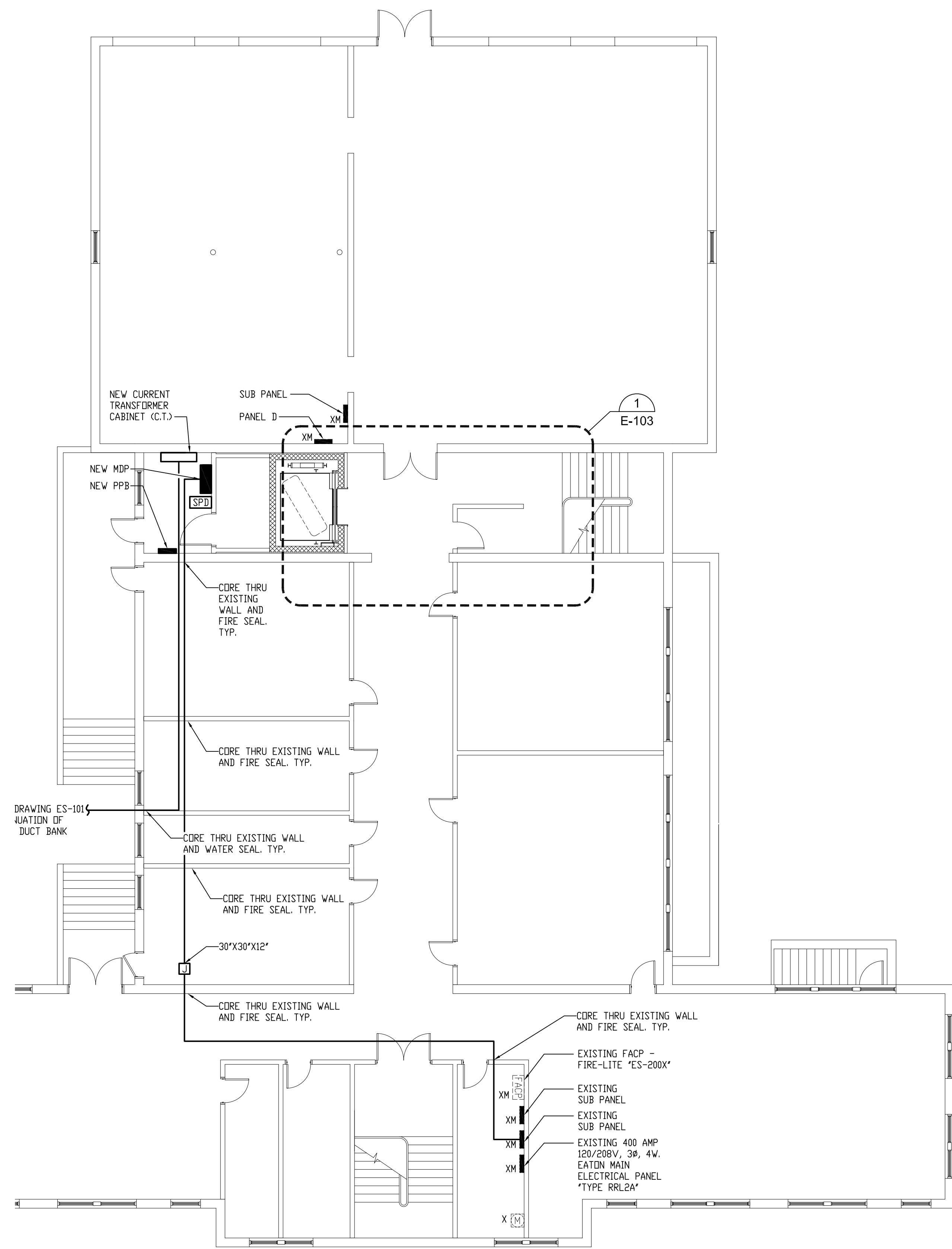
BUILDING:

SHEET TITLE:

**ELECTRICAL BASEMENT AND FIRST FLOOR POWER PLANS**

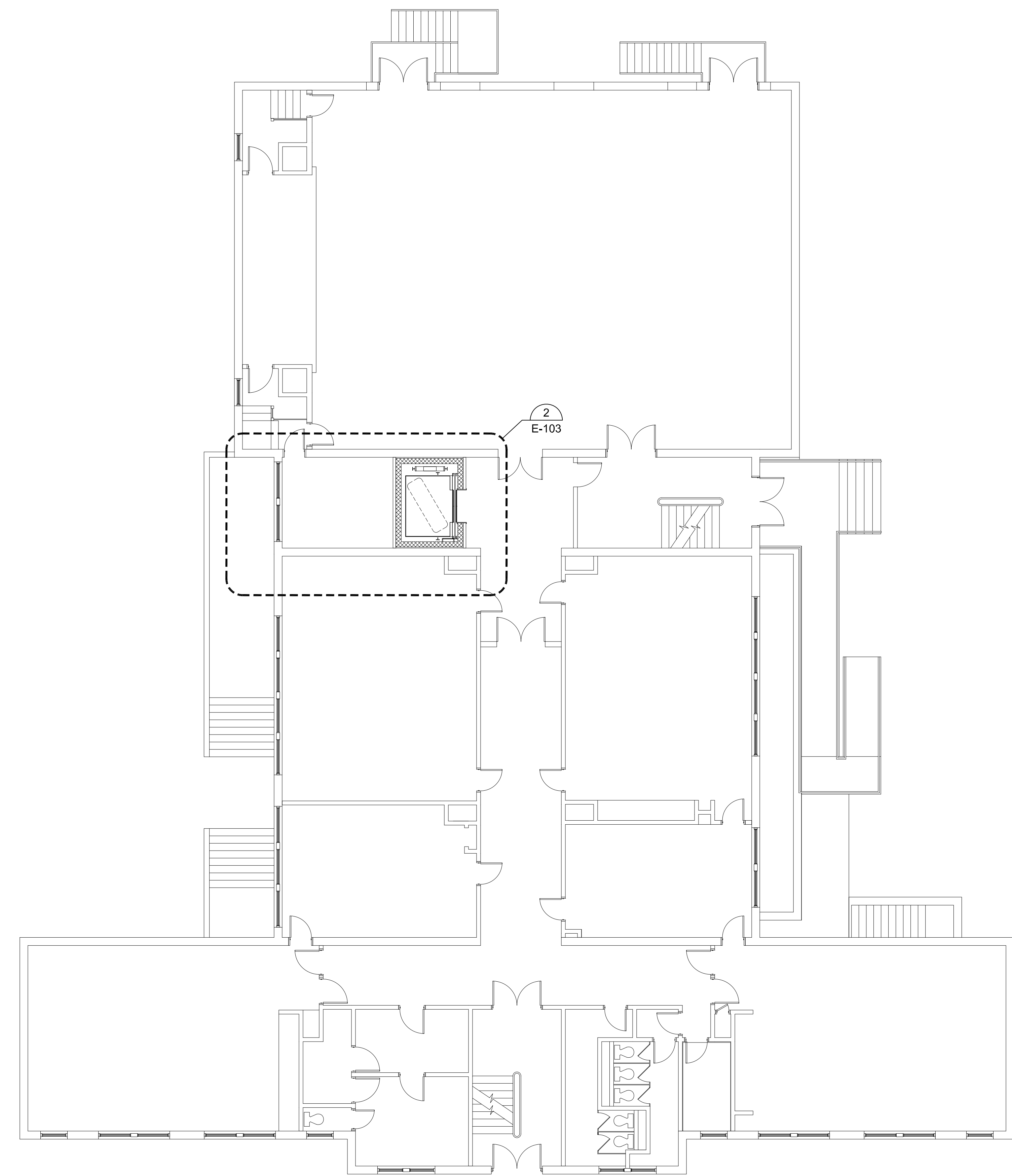
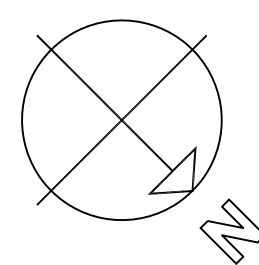
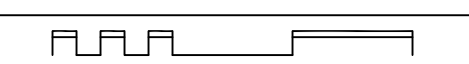
DRAWING NO.

**E-002**



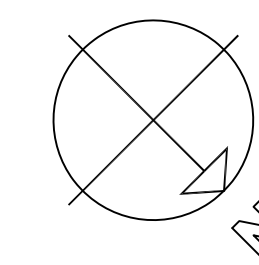
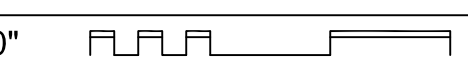
**1 ELECTRICAL BASEMENT FLOOR POWER PLAN**

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



**2 ELECTRICAL FIRST FLOOR POWER PLAN**

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



**BRANCH CIRCUIT NOTES**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT W/ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 982 CONDUCTIVITY, COPPER MINIMUM #12 AVG SIZE, THIN/THIN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- REFER TO FIRE PROTECTION PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL FLOW SWITCHES, TAMPER SWITCHES, ETC.



**TOWN OF GROTON**

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ELEVATOR INSTALLATION**

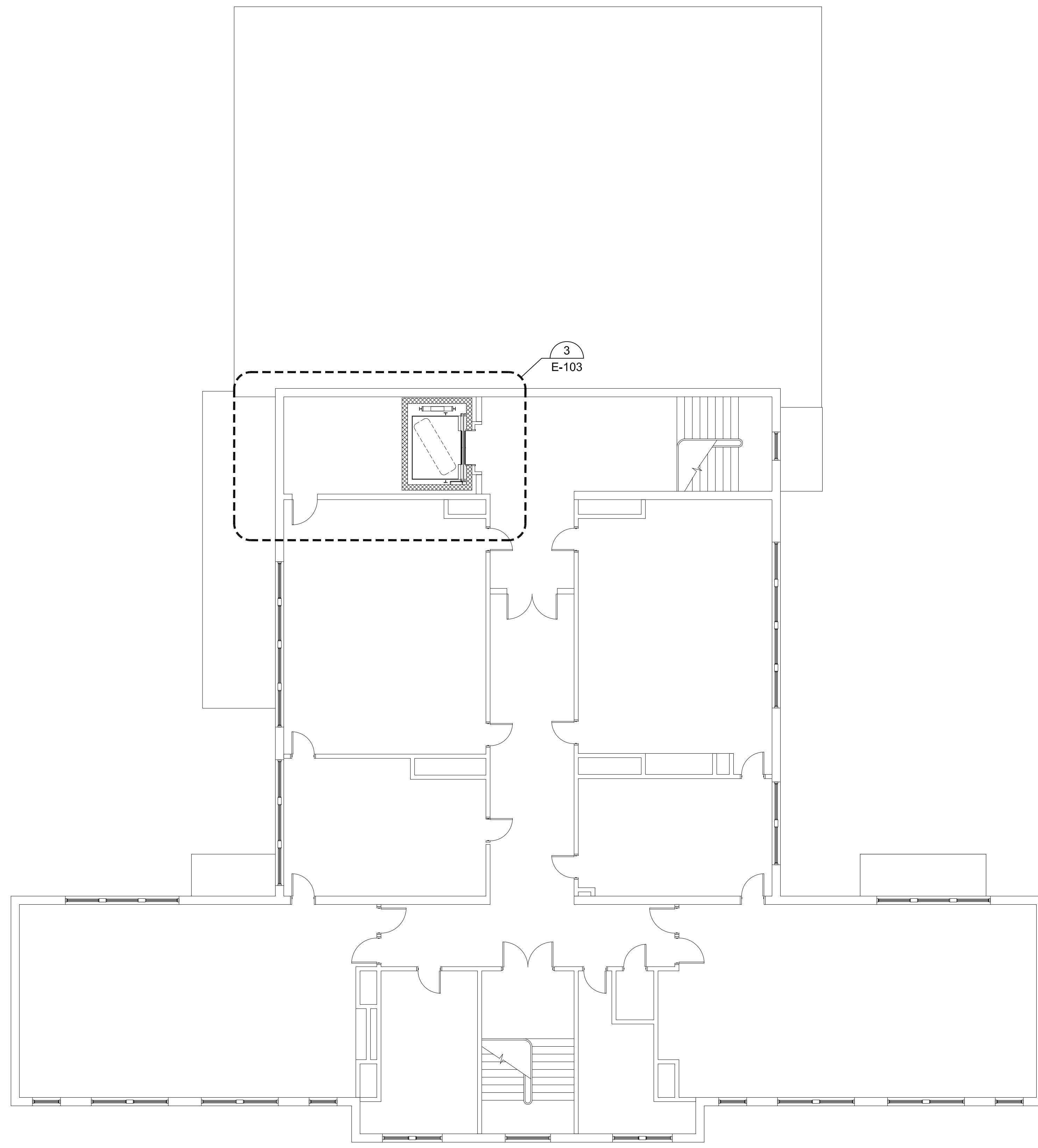
**OWNER:**  
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**ARCHITECT:**  
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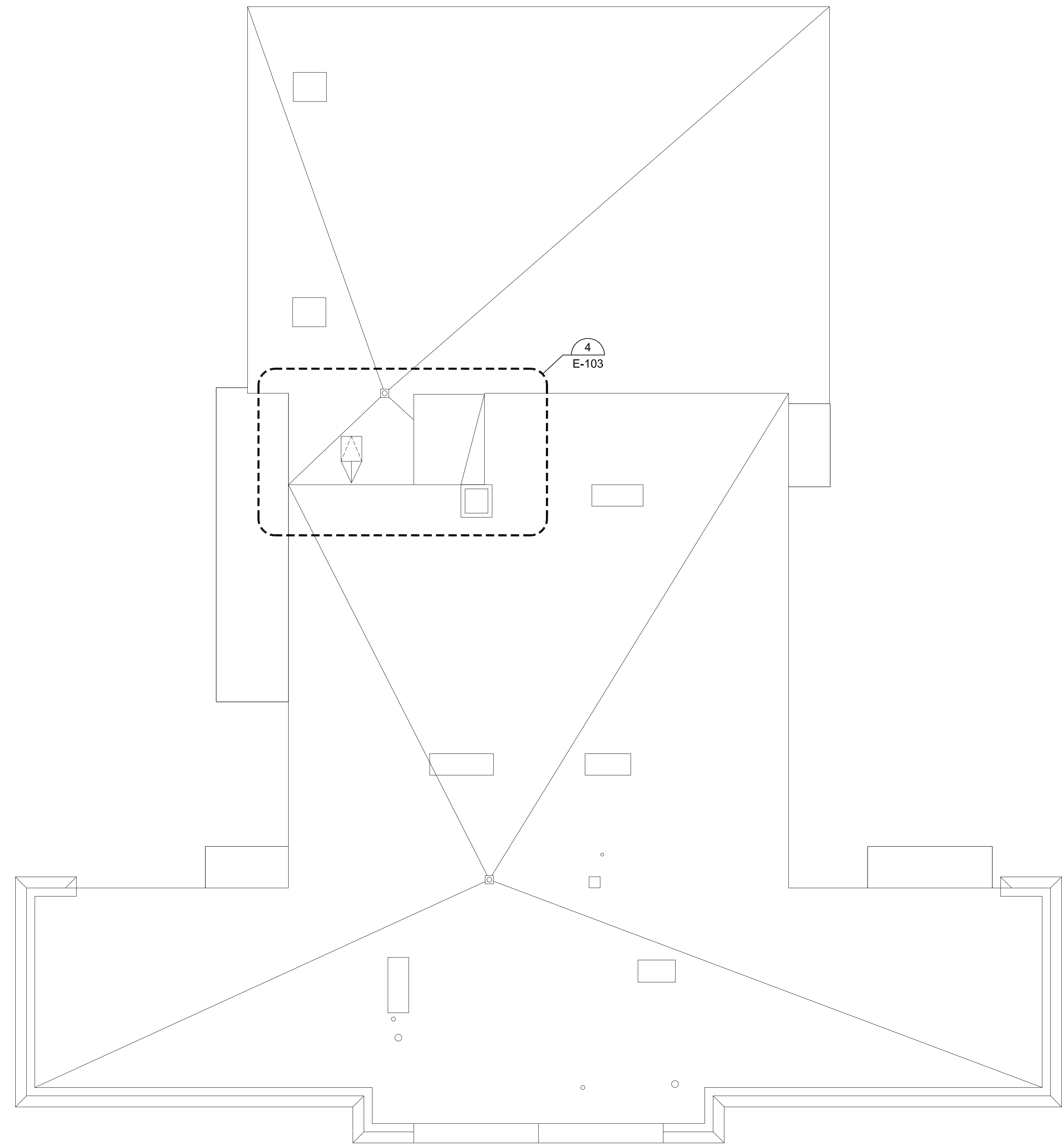
**MECHANICAL ENGINEER:**  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

**ELECTRICAL ENGINEER:**  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
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**ELEVATOR CONSULTANT:**  
SYSKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140



**1** **ELECTRICAL SECOND FLOOR POWER PLAN**  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET



**2** **ELECTRICAL ROOF POWER PLAN**  
SCALE: 1/8"=1'-0"  
0 5 10 15 FEET

**BRANCH CIRCUIT NOTES**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT W/ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 982 CONDUCTIVITY, COPPER MINIMUM #12 AVG SIZE, THIN/THIN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/8" = 1'-0"
DRAWN BY	MTG
CHECKED BY	JJM
PROJECT NO.	22009

**BUILDING:**  
**SHEET TITLE:**  
**ELECTRICAL SECOND FLOOR AND ROOF POWER PLANS**

**DRAWING NO.**  
**E-003**





**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

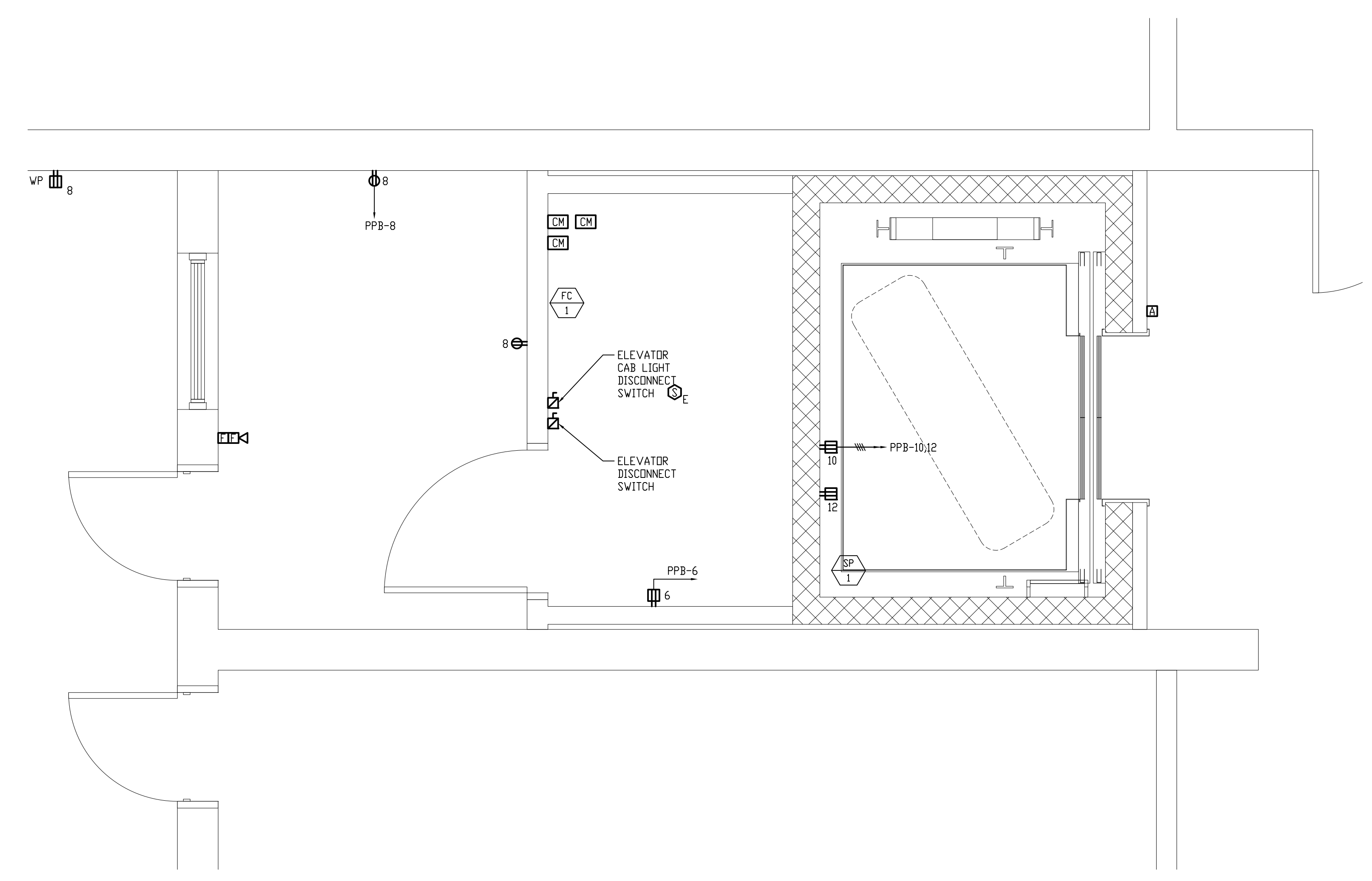
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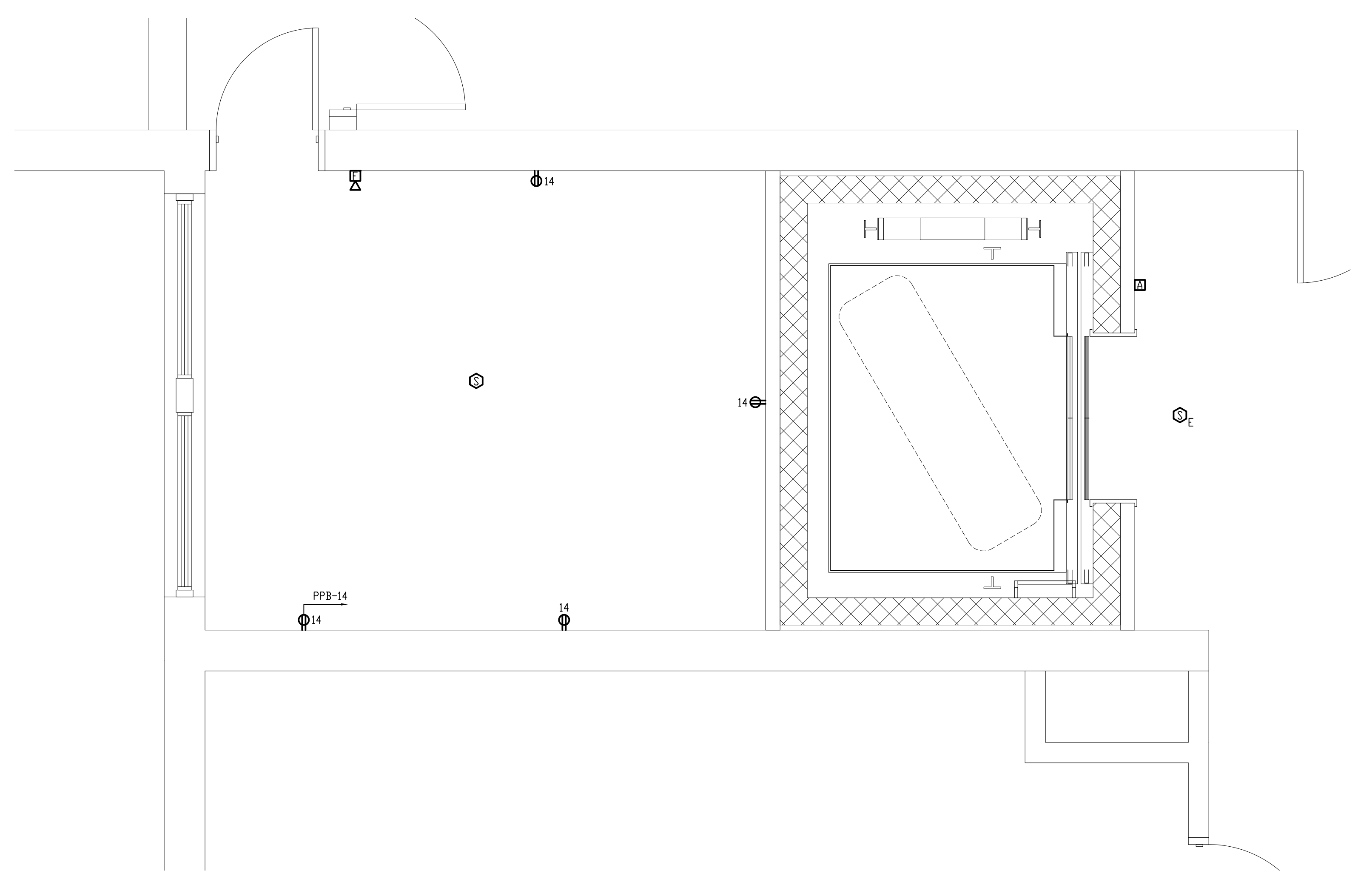
MECHANICAL ENGINEER:  
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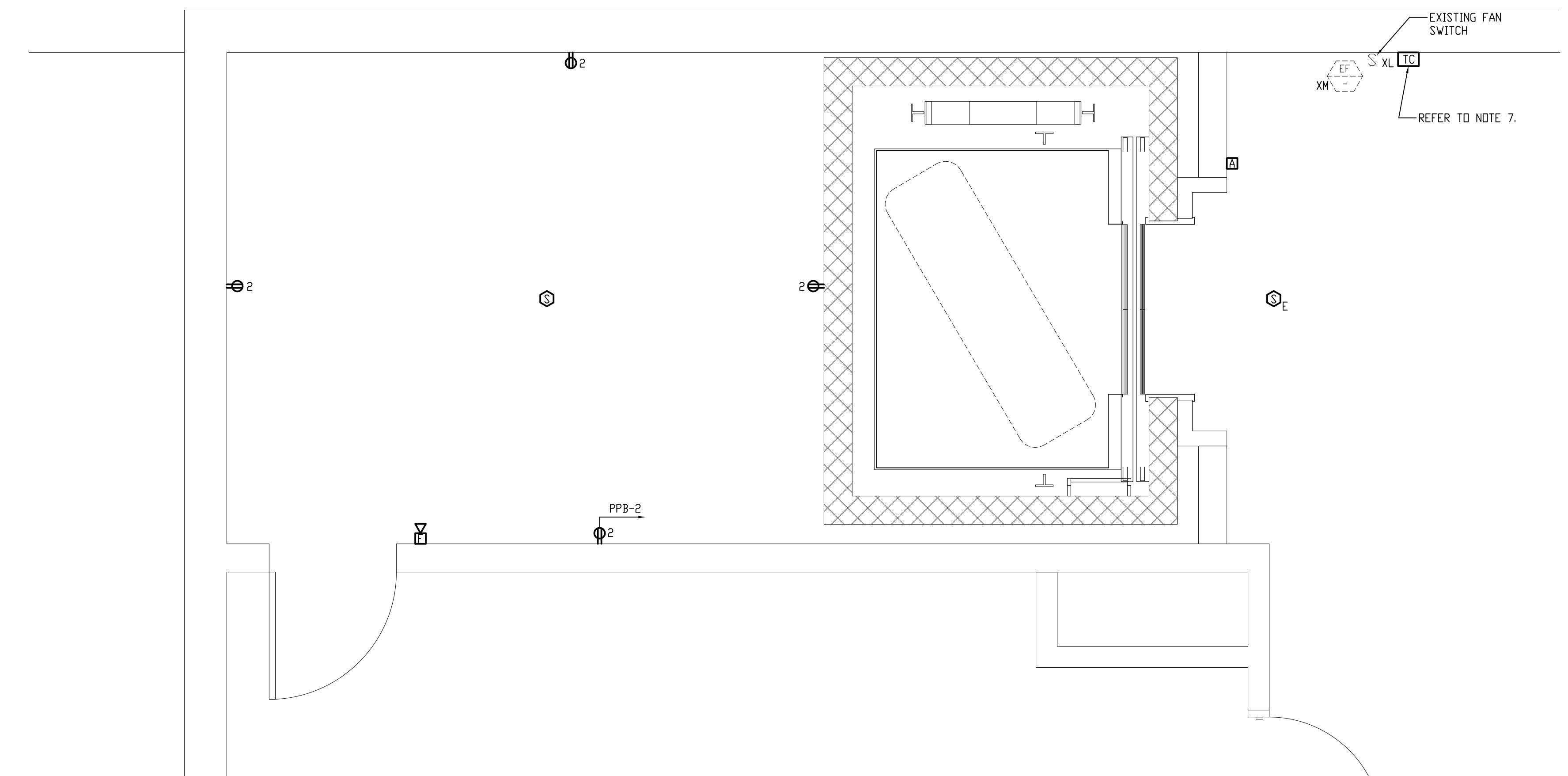
ELEVATOR CONSULTANT:  
SYSKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140



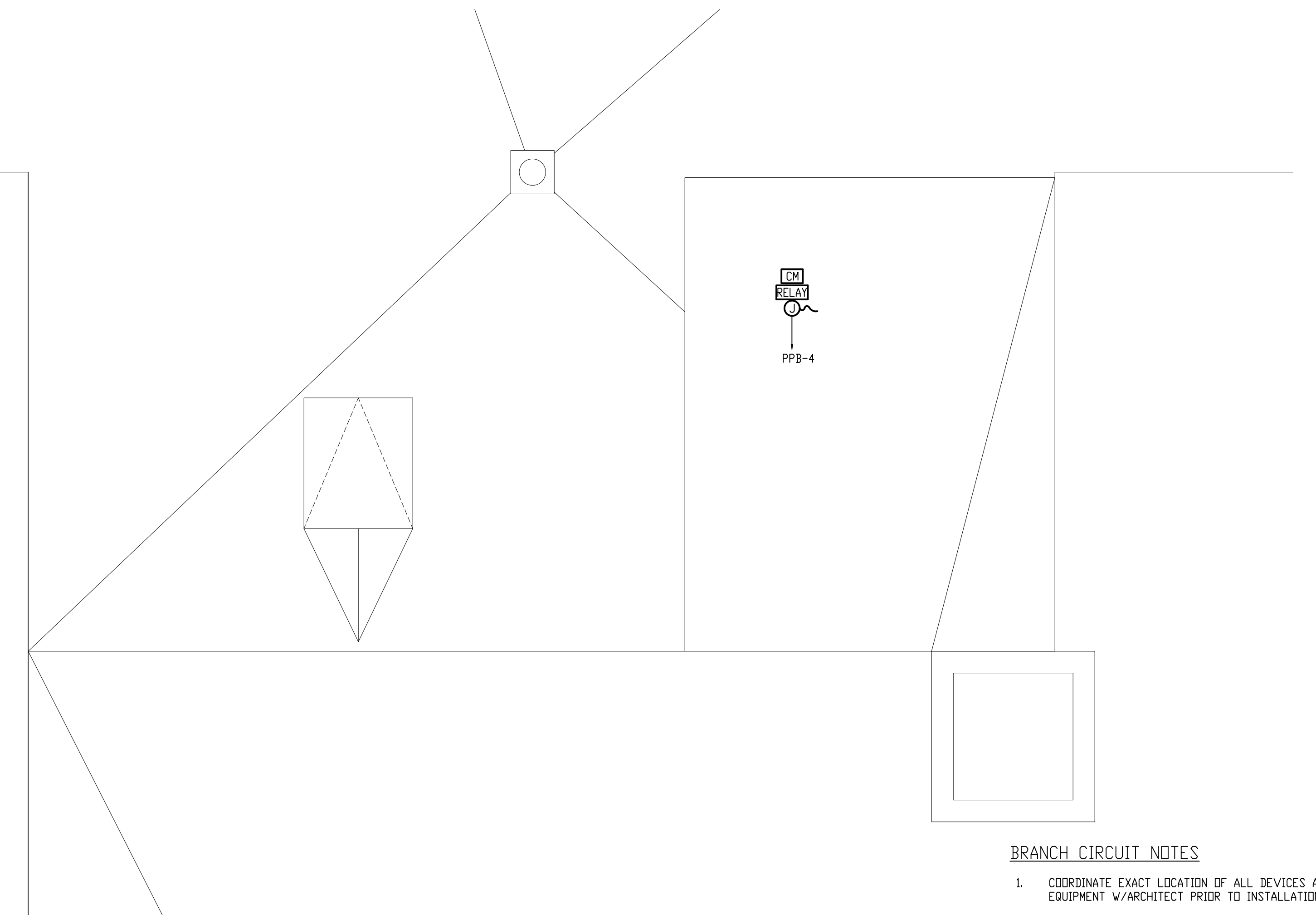
**1 ELECTRICAL ENLARGED  
BASEMENT POWER PLAN**  
SCALE: 1/2"=1'-0"  
0 1 2 4 FEET



**2 ELECTRICAL ENLARGED FIRST  
FLOOR POWER PLAN**  
SCALE: 1/2"=1'-0"  
0 1 2 4 FEET



**3 ELECTRICAL ENLARGED SECOND  
FLOOR POWER PLAN**  
SCALE: 1/2"=1'-0"  
0 1 2 4 FEET



**4 ELECTRICAL ENLARGED  
ROOF POWER PLAN**  
SCALE: 1/2"=1'-0"  
0 1 2 4 FEET

**BRANCH CIRCUIT NOTES**

- COORDINATE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT W/ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL PLANS FOR ANY CHANGES AND FOR EXACT LOCATION OF ALL HVAC EQUIPMENT.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 90% CONDUCTIVITY, COPPER MINIMUM #12 AVG SIZE, THIN/THIN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- E.C. IS TO PROVIDE TIME CLOCK FOR EXISTING EXHAUST FAN. E.C. IS TO COORDINATE WITH HVAC INSTALLER REGARDING WHAT THE HOURS OF OPERATION OF THE EXHAUST FAN.

STAMP

REV	DATE	DESCRIPTION

DATE 1/11/23

SCALE 1/2" = 1'-0"

DRAWN BY MTG

CHECKED BY JJM

PROJECT NO. 22009

BUILDING:

SHEET TITLE:

**ELECTRICAL ENLARGED FLOOR  
POWER PLANS**

DRAWING NO.

**E-101**



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ELEVATOR INSTALLATION**

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ROCKLAND, MA 02370

**ELEVATOR CONSULTANT:**  
SYSKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/2" = 1'-0"
DRAWN BY	MTG
CHECKED BY	JJM
PROJECT NO.	22009

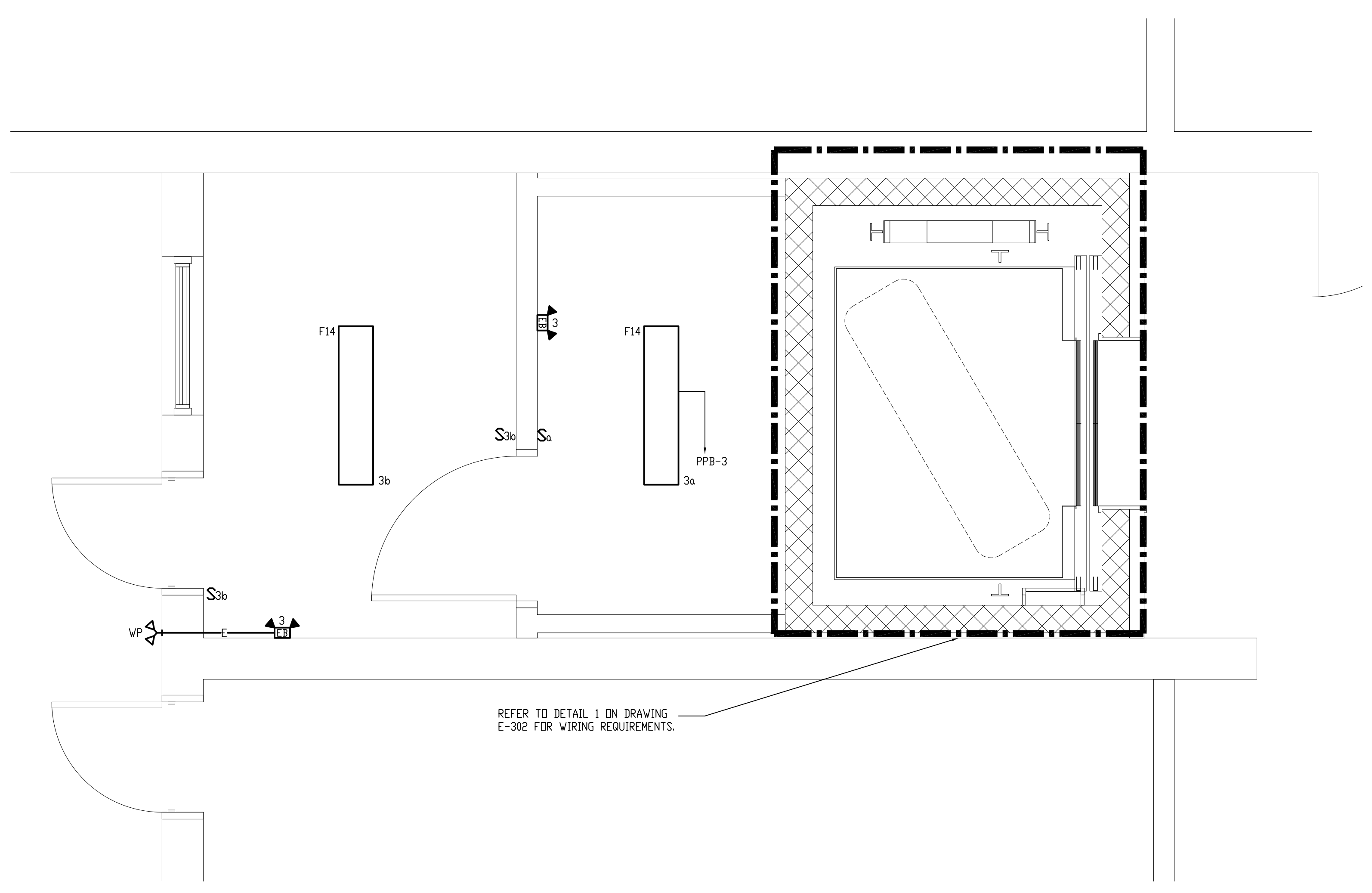
BUILDING:

SHEET TITLE:

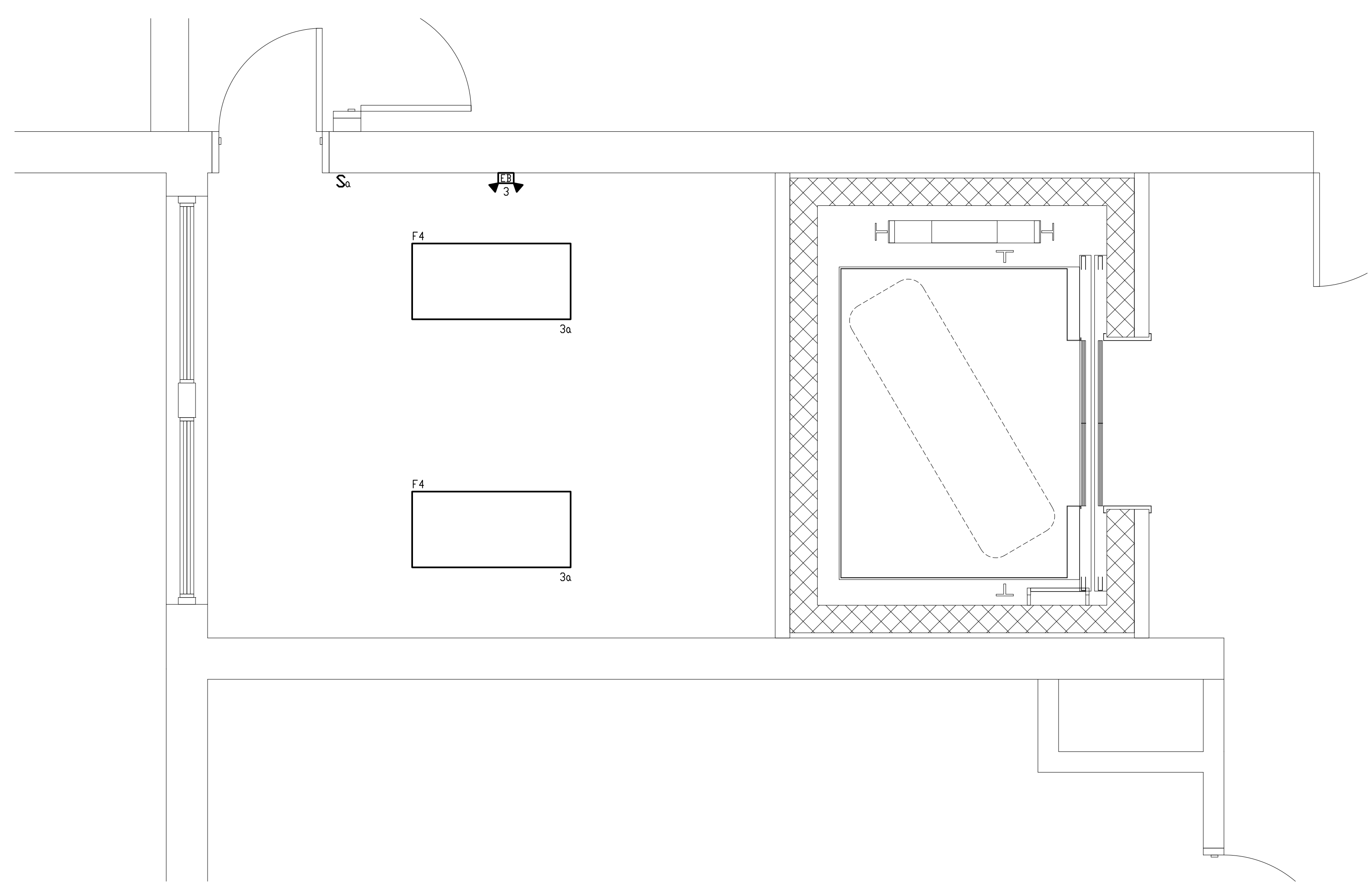
**ELECTRICAL ENLARGED FLOOR LIGHTING PLANS**

DRAWING NO.

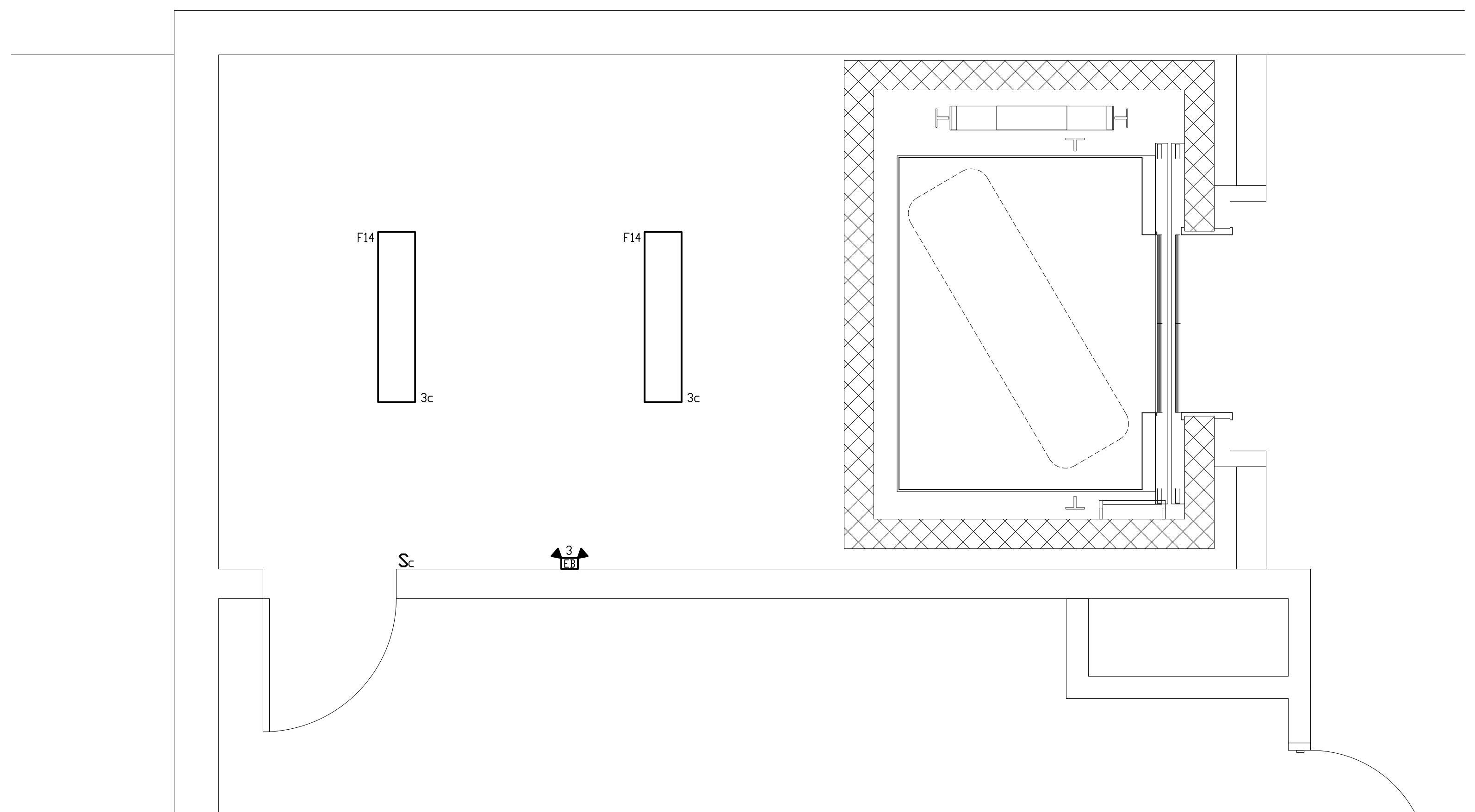
**E-201**



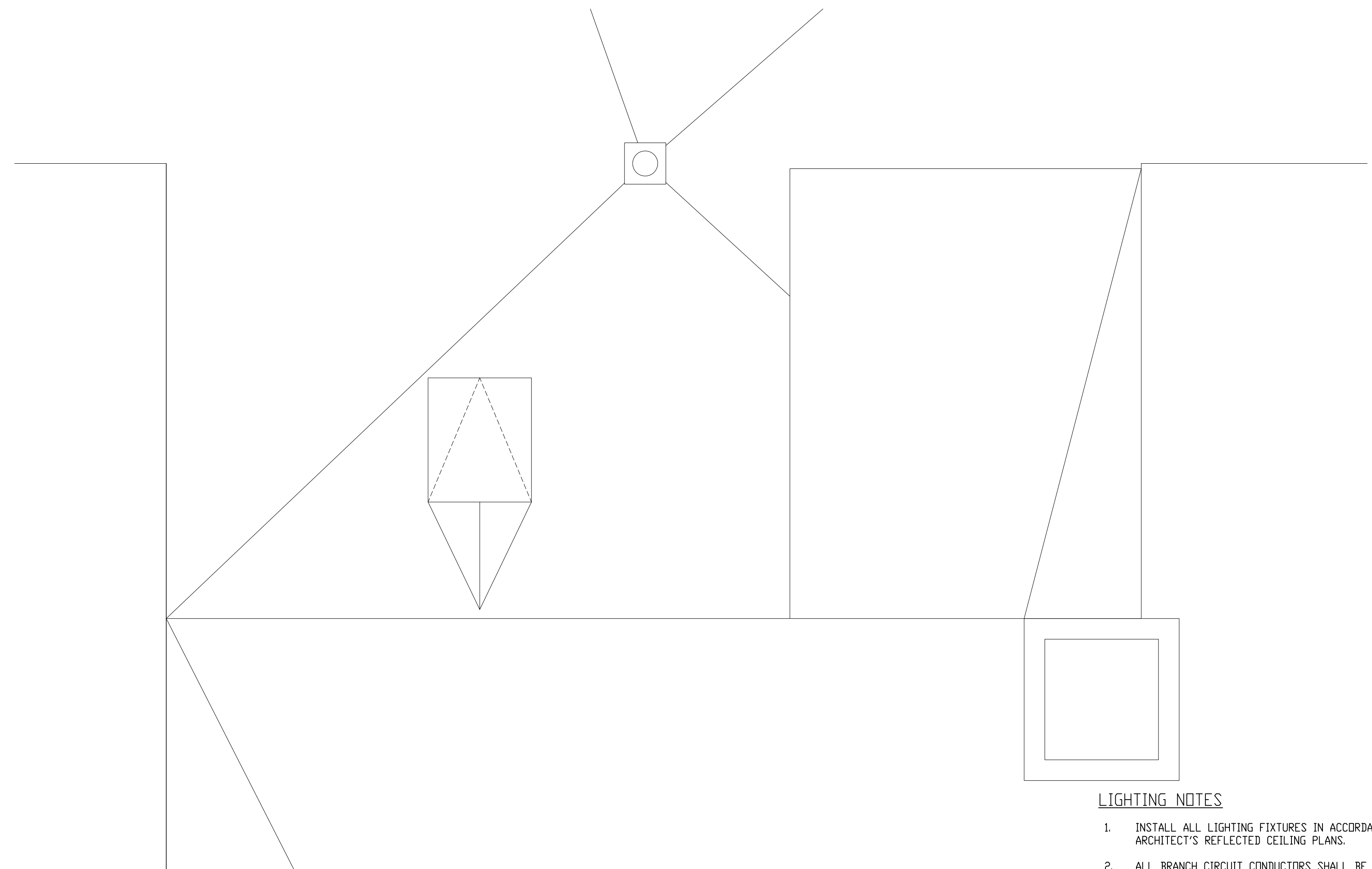
**1 ELECTRICAL ENLARGED BASEMENT LIGHTING PLAN**  
SCALE: 1/2"=1'-0"



**2 ELECTRICAL ENLARGED FIRST FLOOR LIGHTING PLAN**  
SCALE: 1/2"=1'-0"



**3 ELECTRICAL ENLARGED SECOND FLOOR LIGHTING PLAN**  
SCALE: 1/2"=1'-0"



**4 ELECTRICAL ENLARGED ROOF LIGHTING PLAN**  
SCALE: 1/2"=1'-0"

REFER TO DETAIL 1 ON DRAWING E-302 FOR WIRING REQUIREMENTS.

**LIGHTING NOTES**

- INSTALL ALL LIGHTING FIXTURES IN ACCORDANCE WITH ARCHITECT'S REFLECTED CEILING PLANS.
- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE MC 90% CONDUCTIVITY, COPPER MINIMUM #12 AVG SIZE, THW/THHN INSULATION, 600 VOLTS RATED UNLESS OTHERWISE NOTED.
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL FIXTURES INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- CONNECT ALL EMERGENCY BATTERY UNITS (EBU) AND EXIT SIGNS TO CIRCUIT NUMBERS AS SHOWN ON DRAWING. CONNECT ALL EBS AND EXIT SIGNS TO NON-SWITCHED CIRCUIT (CONSTANT DN).



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**ELECTRICAL ENGINEER:**  
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CONSTRUCTION AND ENGINEERING, INC.  
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ROCKLAND, MA 02370

**ELEVATOR CONSULTANT:**  
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CAMBRIDGE, MA 02140

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REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/8" = 1'-0"
DRAWN BY	MTG
CHECKED BY	JJM
PROJECT NO.	22009

**BUILDING:**  
**SHEET TITLE:**  
**ELECTRICAL RISER DIAGRAM AND SCHEDULES**

**DRAWING NO.**  
**E-301**

FEEDER SIZE SCHEDULE		(COPPER CONDUCTORS)	
FEEDER SYMBOL	CONDUCTORS (3 PHASE, 3 WIRE) WITH GROUND	RACEWAY SIZE CONDUIT	NOMINAL AMPERE RATING
60	3#4 & 1#0G.	1"	60
60N	4#4 & 1#0G.	1 1/4"	60
70	3#4 & 1#0G.	1"	70
70N	4#4 & 1#0G.	1 1/4"	70
100	3#1 & 1#0G.	1 1/2"	100
100N	4#1 & 1#0G.	1 1/2"	100
125	3#1/0 & 1#6G.	1 1/2"	125
125N	4#1/0 & 1#6G.	2"	125
150	3#1/0 & 1#6G.	1 1/2"	150
150N	4#1/0 & 1#6G.	2"	150
175	3#2/0 & 1#6G.	2"	175
175N	4#2/0 & 1#6G.	2"	175
200	3#3/0 & 1#6G.	2"	200
200N	4#3/0 & 1#6G.	2"	200
225	3#4/0 & 1#4G.	2"	225
225N	4#4/0 & 1#4G.	2 1/2"	225
250	3#250KCMIL & 1#4G.	2 1/2"	250
250N	4#250KCMIL & 1#4G.	3"	250
300	3#250KCMIL & 1#4G.	3"	300
300N	4#250KCMIL & 1#4G.	3"	300
350	3#500KCMIL & 1#3G.	3 1/2"	350
350N	4#500KCMIL & 1#3G.	4"	350
400	3#600KCMIL & 1#3G.	3 1/2"	400
400N	4#600KCMIL & 1#3G.	4"	400
500	6#250KCMIL & 2#2G.	2-2 1/2"	500
500N	8#250KCMIL & 2#2G.	2-3"	500
600	6#250KCMIL & 2#1G.	2-3"	600
600N	8#250KCMIL & 2#1G.	2-3"	600
800	6#600KCMIL & 2#1/0G.	2-3 1/2"	800
800N	8#600KCMIL & 2#1/0G.	2-4"	800
1000	9#400KCMIL & 3#2/0G.	3-3"	1000
1000N	12#400KCMIL & 3#2/0G.	3-3"	1000

1,000 AMPS MCB, 120/208V, 3Ø, 4W, 42KAIC MAIN SWITCHBOARD "MDP"						
OVER CURRENT DEVICES			CIRCUIT	FEEDER SIZE	COND. SIZE	REMARKS
Nº.	TRIP	FRAME				
1	30	100	SPD	3#10-#10G	1/2"	
2	400	400	BACK FEED EXISTING SERVICE	600N		
3	200	200	PANEL PPB	600N		
4	150	200	ELEVATOR (50 HP)	450N		
5	200	200	FUTURE PPI			
6	200	200	FUTURE PPI			
7	-	200	SPACE			
8	-	200	SPACE			
9	-	200	SPACE			

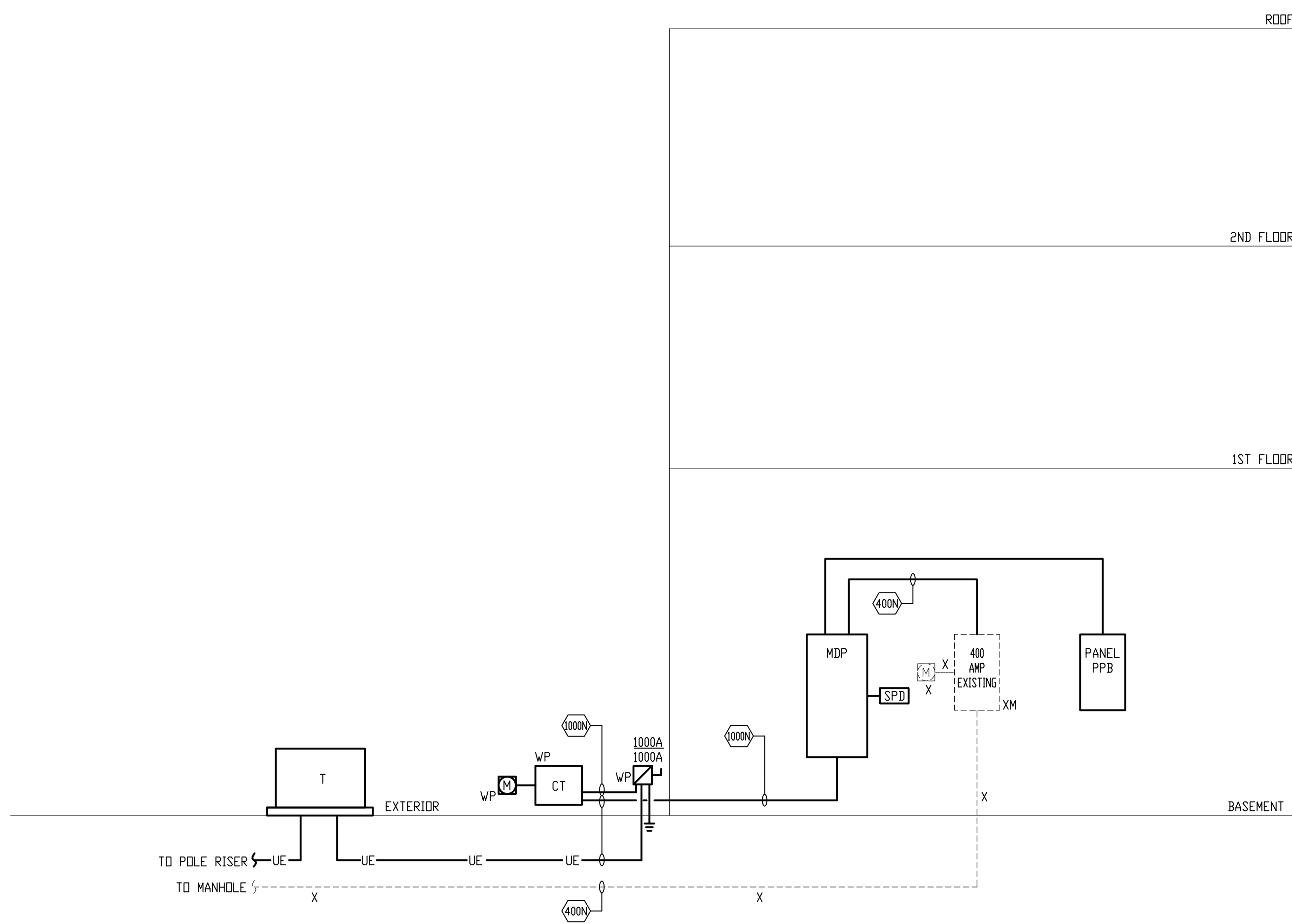
GROUNDING REQUIREMENTS		
EQUIPMENT	WIRE SIZE	LOCATION
GROUND RODS (QTY. 2)	#6 COPPER	MAIN SERVICE
WATER PIPE	3/0 COPPER	MAIN SERVICE
BUILDING STEEL	N/A	MAIN SERVICE
CONCRETE ENCASED ELECTRODE	#4	MAIN SERVICE

120/208V, 3Ø, 4W PANEL SCHEDULE																										
PANEL NO.	LOCATION	MTG	MAIN BUS AMPS	MAIN CB	KAIC RATING	BRANCH CKT BREAKER (AMPS). KAIC RATING OF THE BRANCH C.B.'S WILL MATCH KAIC RATING OF PANEL															TOTAL POLES	OTHERS				
						1 POLE					2 POLE					3 POLE										
PPB	BASEMENT	S	200	200	42	15	20	30	40	50	60	15	20	30	40	50	60	15	20	30	40	50	60	100	42	

- NOTES:  
1. BRANCH CIRCUIT BREAKERS KAIC SHALL MATCH THE KAIC RATING OF THE PANEL BOARD.

MECHANICAL EQUIPMENT SCHEDULE																											
EQUIP. TAG	EQUIPMENT	CHARACTERISTICS	VOLTS	MCA	PH.	PANEL	CKT. BRK.	FUSE	FEEDER	CONNECTION												REMARKS					
										1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	
FC 1	FAN COIL		208	8.7	1	PPB	20/2	15	2#12 & #12 G 1/2" EMT																		POWERED VIA THE CONDENSING UNIT (HP-1)
HP 1	HEAT PUMP		208	8.7	1	PPB	20/2	15	2#12 & #12 G 1/2" EMT																		
SP 1	SUMP PUMP	1/2 HP	120	12.25	1	PPB	20/1		2#12 & #12 G 1/2" EMT																		

- MECHANICAL EQUIPMENT SCHEDULE NOTES:  
1. STARTERS (FVNR, VFD, RVNR, ETC.) SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTORS AND WIRED BY ELECTRICAL CONTRACTOR FOR EXACT LOCATIONS REFER TO MECHANICAL DRAWINGS.  
2. E.C. SHALL COORDINATE FUSE SIZE AND OVERCURRENT PROTECTION FOR ALL MECHANICAL EQUIPMENT W/ MANUFACTURER'S RECOMMENDATIONS.  
3. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR AND WIRED BY E.C.



1. POWER RISER DIAGRAM

- SCALE: NTS
- NOTES:  
1. E.C. TO PROVIDE ARC FLASH LABEL IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) SECTION 110.16  
2. COORDINATE SHORT CIRCUIT RATING OF ELECTRICAL EQUIPMENT WITH LOCAL UTILITY.  
3. PROVIDE LABEL ON ELECTRICAL SERVICE PANEL OF AVAILABLE FAULT CURRENT PER ARTICLE 110.24 IN THE 2023 NATIONAL ELECTRICAL CODE. COORDINATE THIS WITH LOCAL UTILITY COMPANY.  
4. PROVIDE SURGE SUPPRESSORS FOR ALL NEW ELECTRIC PANELS AND THE MAIN SERVICE WIRE PER MANUFACTURER'S RECOMMENDATIONS.  
5. E.C. IS TO VERIFY HOT OR COLD METER SEQUENCE WITH THE UTILITY.  
6. PROVIDE COORDINATION STUDY PRIOR TO SUBMITTING ELECTRICAL SHOP DRAWINGS. THE COORDINATION STUDY WILL BE REJECTED UNTIL THE ENTIRE SYSTEM IS PROVEN TO BE COORDINATED. ANY ISSUES WITH CIRCUIT BREAKERS NOT BEING COORDINATED WILL RESULT IN REJECTION OF ALL THE SHOP DRAWINGS.  
7. E.C. IS TO SEPARATE THE NEUTRAL AND GROUNDS WITHIN THE EXISTING 400 AMP PANEL. 400 AMP PANEL IS A CUTLER HAMMER (PRL2A) WITH ADJUSTABLE MAIN CIRCUIT BREAKER.





**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

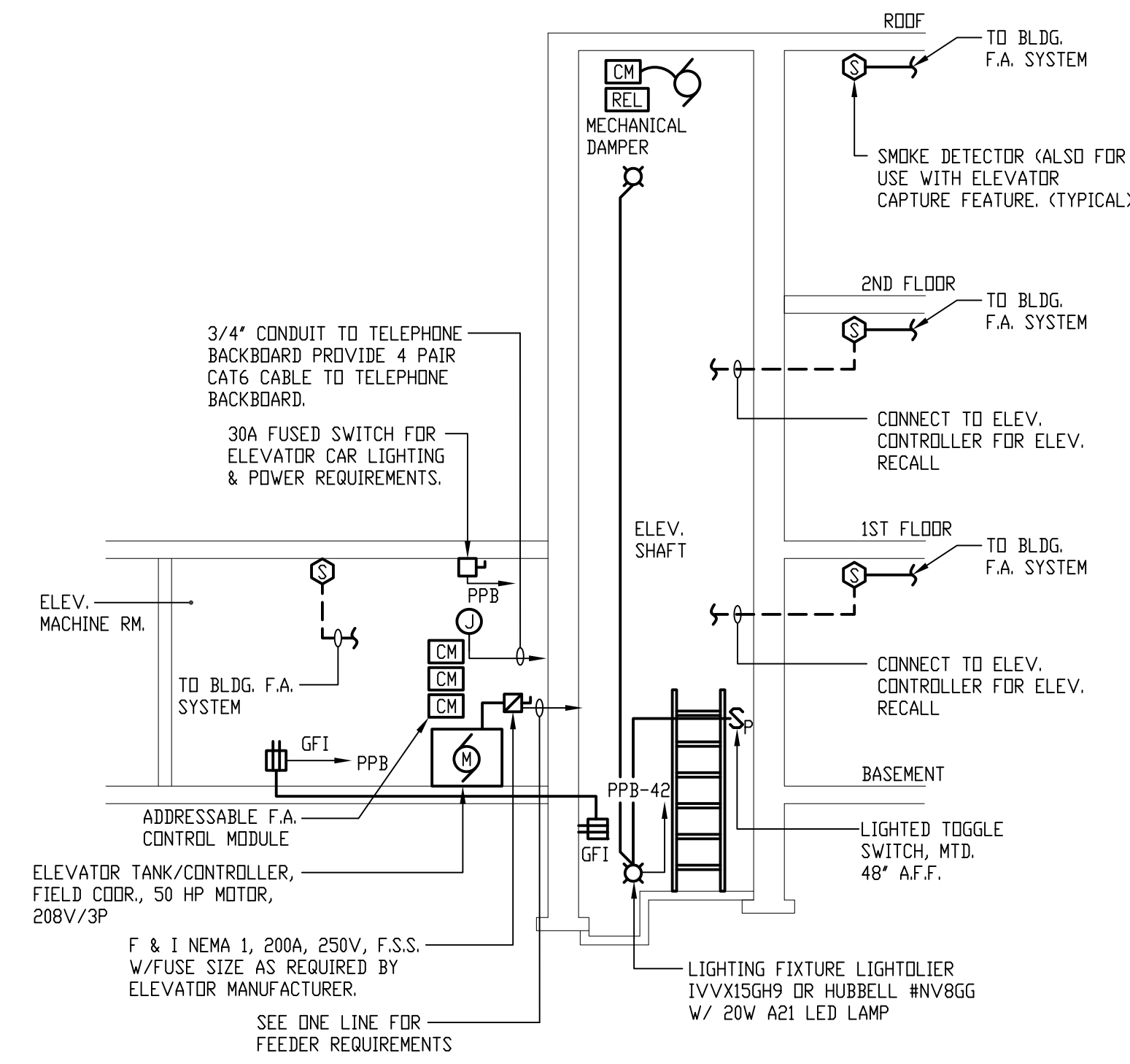
**OWNER:**  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

**ARCHITECT:**  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

**MECHANICAL ENGINEER:**  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

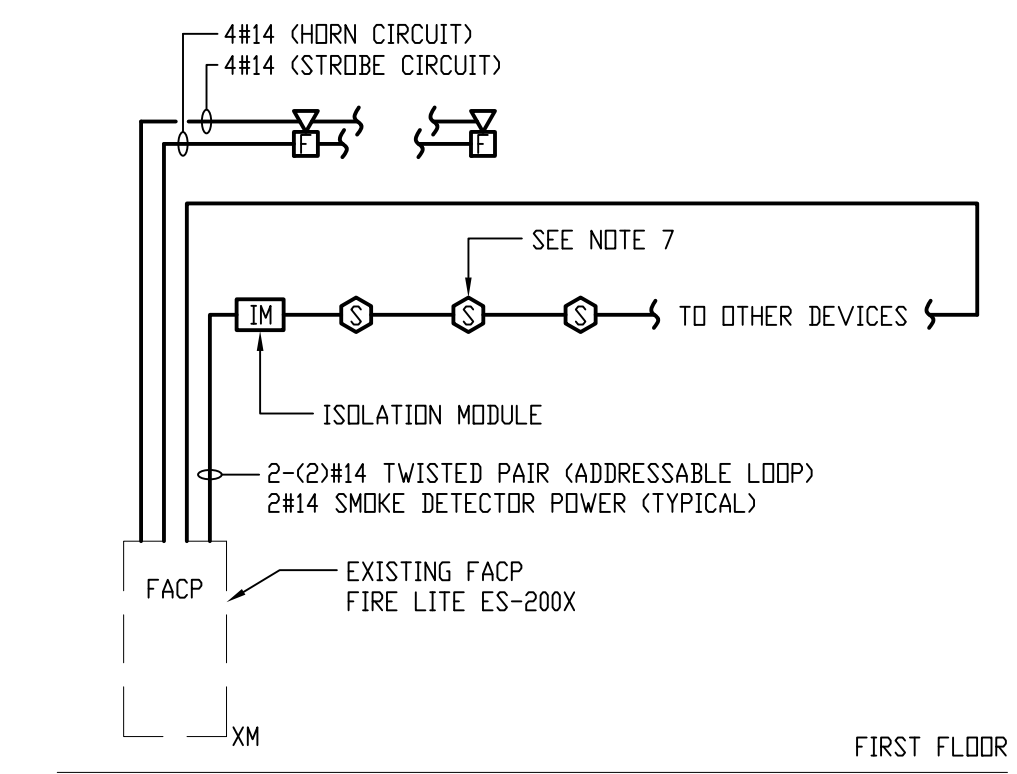
**ELECTRICAL ENGINEER:**  
JOHN J. MURPHY, JR., ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

**ELEVATOR CONSULTANT:**  
SYSKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140



**TYPICAL NEW ELEVATOR SHAFT  
AND MACHINE ROOM DETAIL**

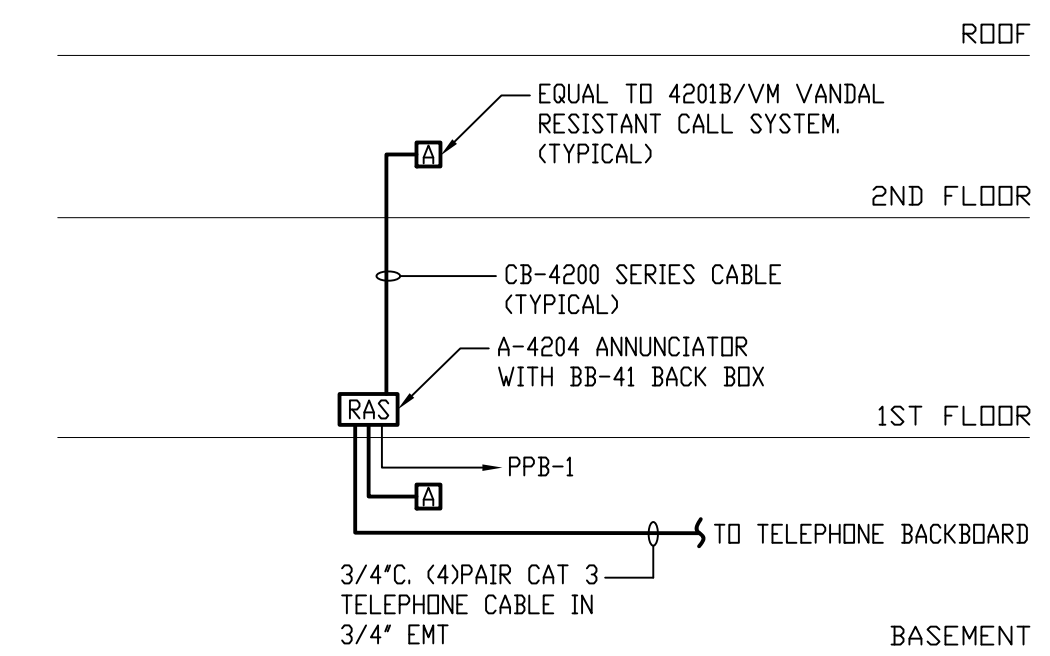
① SCALE: NTS



**PARTIAL FIRE ALARM  
RISER DIAGRAM**

② SCALE: NTS

- NOTES:**
- E.C. SHALL REFER TO SPECIFICATIONS AND DRAWINGS FOR QUANTITY OF DEVICES, SPARE CAPACITY, PARTS, ETC. RISER DEPICTS BASIC SYSTEM ONLY.
  - E.C. TO PROGRAM EXISTING FACP FOR NEW INITIATING DEVICES THAT ARE TO BE ADDED AS PART OF THE PROJECT.
  - E.C. TO VERIFY EXISTING HORN/STROBE CIRCUIT CAPACITY FOR NEW AUDIO/ VISUAL DEVICES. PROVIDE ADA POWER SUPPLY SHOULD THE FACP HORN/STROBE CIRCUIT CANNOT SUPPORT NEW DEVICES.
  - REFER TO FLOOR PLAN FOR EXACT QUANTITY OF DEVICES THAT ARE TO BE INSTALLED. RISER DOES NOT DEPICT EXACT QUANTITY OF DEVICES TO BE INSTALLED.
  - E.C. IS TO UPDATE EXISTING ONE-LINE RISER FOR ADDITIONAL DEVICES THAT WERE ADDED AS PART OF THIS PROJECT.
  - E.C. IS TO UPDATE EXISTING BATTERY CALCULATIONS FOR ALL NEW DEVICES THAT WERE ADDED AS PART OF THIS PROJECT.
  - E.C. TO CAPTURE EXISTING ADDRESSABLE LOOP IN THE FACP. EXTEND IN TO THE PROJECT AREA.



**RESCUE ASSISTANCE SYSTEM**

③ SCALE: NTS

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	AS NOTED
DRAWN BY	MTG
CHECKED BY	JJM
PROJECT NO.	22009

BUILDING:

SHEET TITLE:

**ELECTRICAL  
DETAILS**

DRAWING NO.

**E-302**



**TOWN OF GROTON**

**PRESCOTT SCHOOL  
ELEVATOR INSTALLATION**

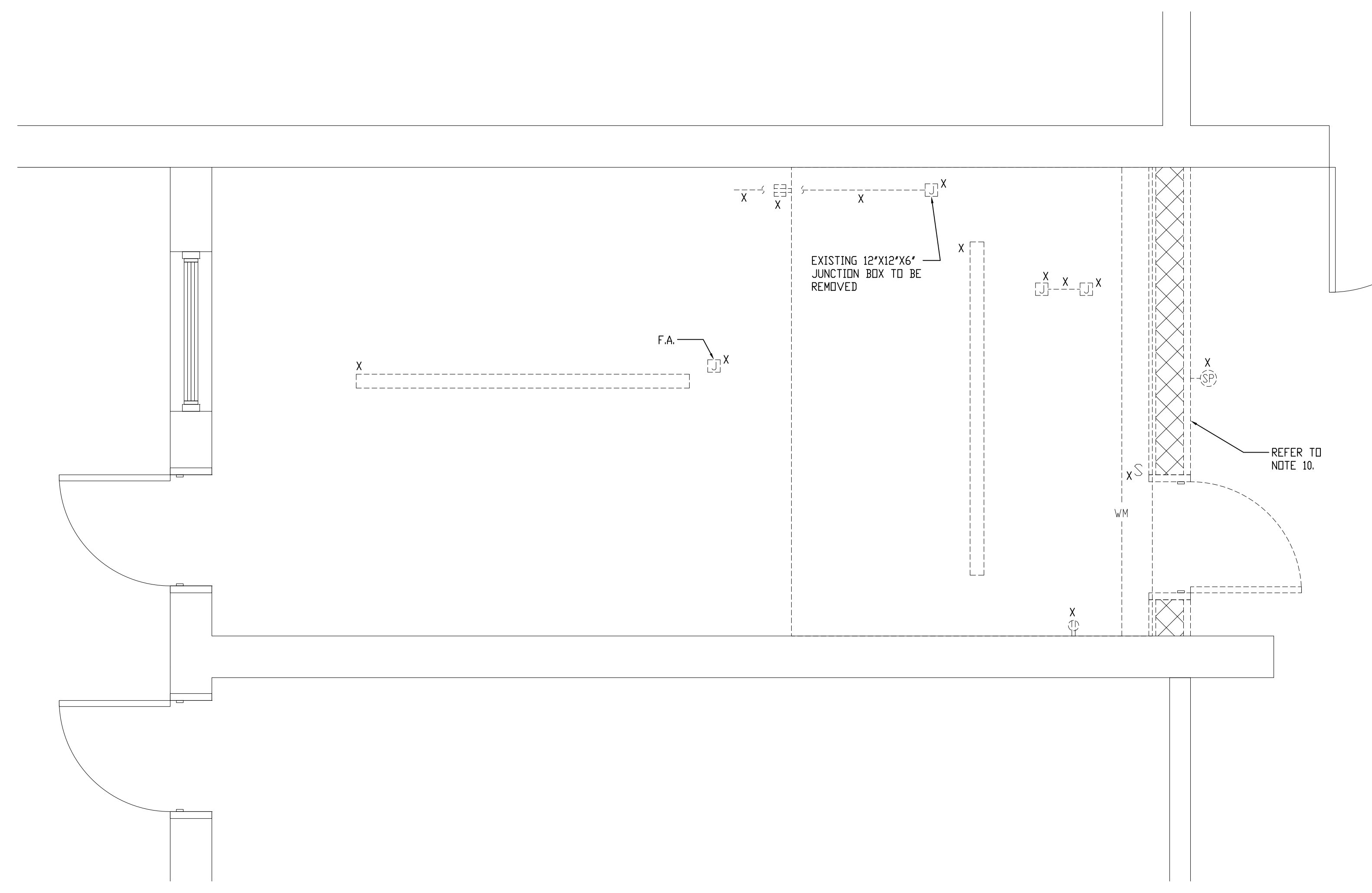
**OWNER:**  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

**ARCHITECT:**  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

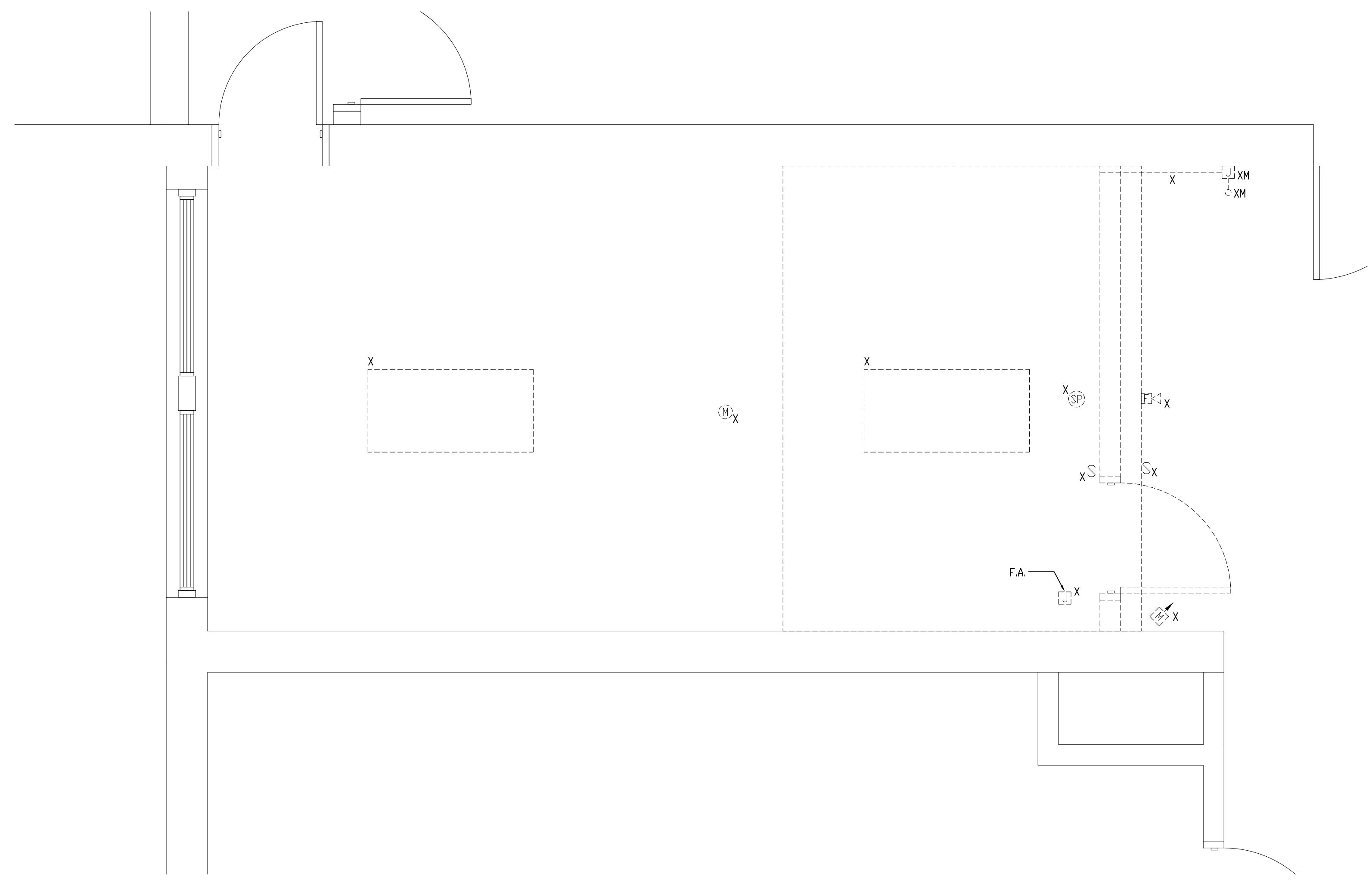
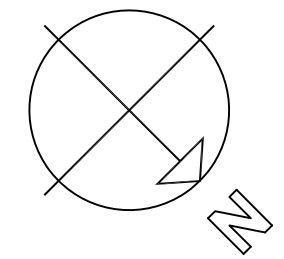
**MECHANICAL ENGINEER:**  
SEAMAN ENGINEERING CORP.  
22 WEST STREET, UNIT C  
MILLBURY, MA 01527

**ELECTRICAL ENGINEER:**  
JOHN J. MURPHY, JR. ELECTRICAL  
CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

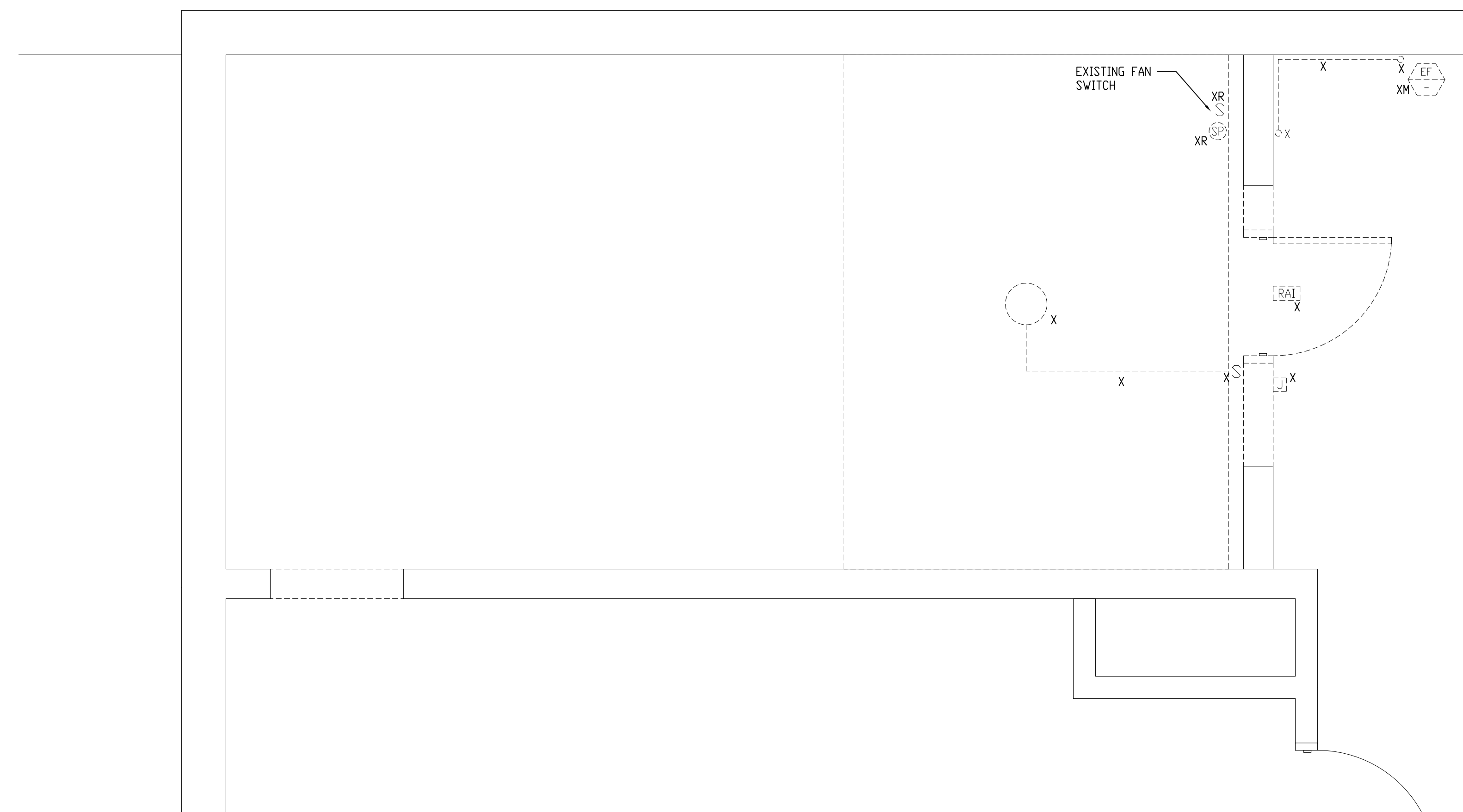
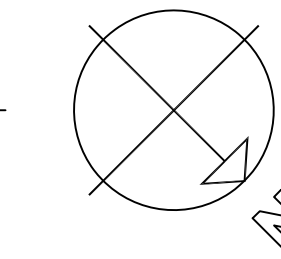
**ELEVATOR CONSULTANT:**  
SYSKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140



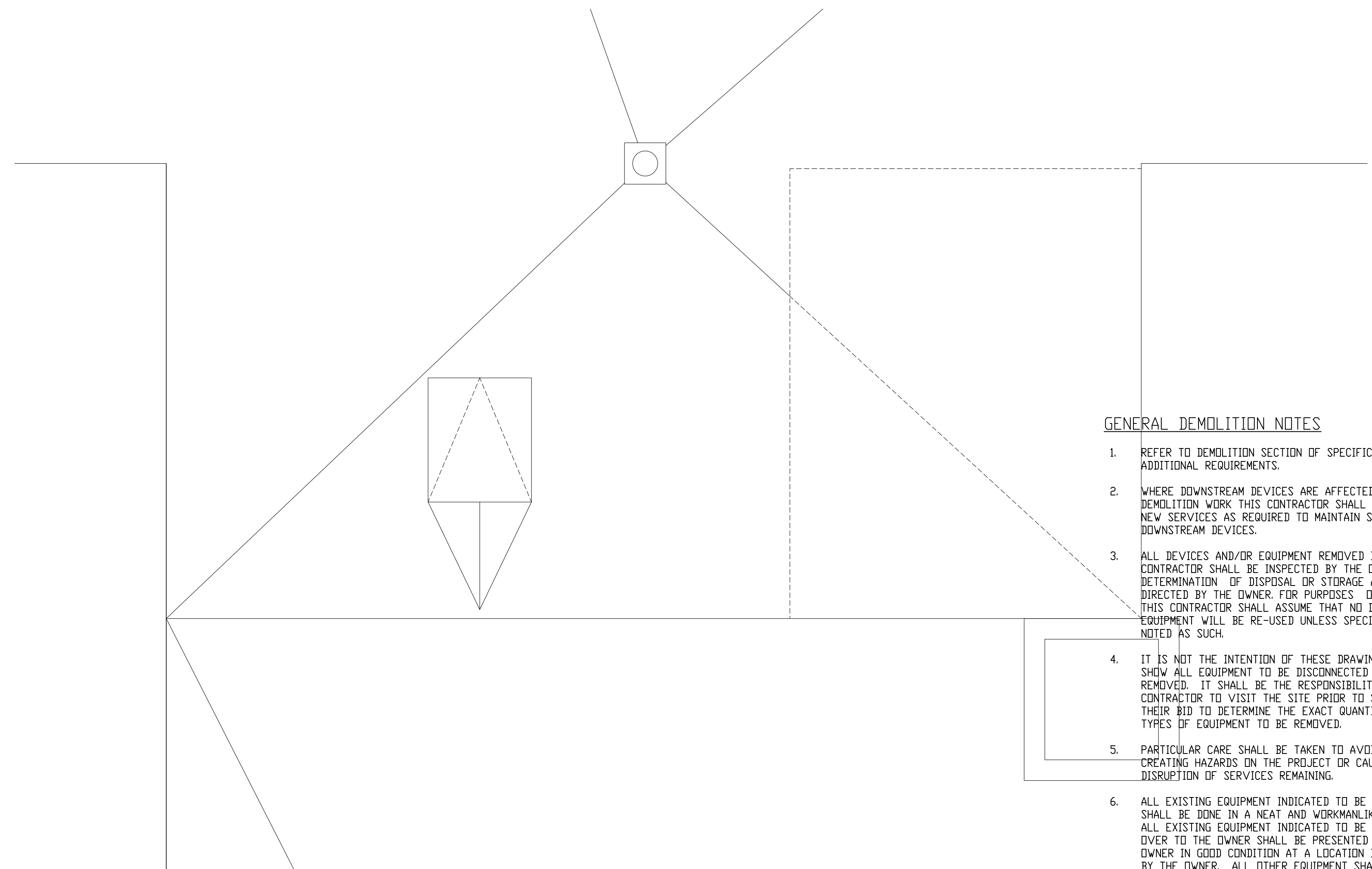
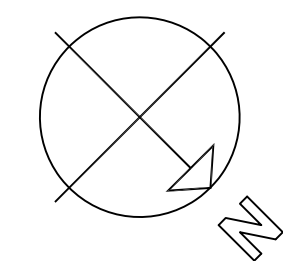
**1 ELECTRICAL ENLARGED  
BASEMENT DEMOLITION PLAN**  
SCALE: 1/2"=1'-0"



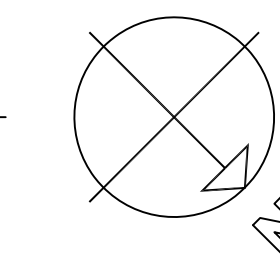
**2 ELECTRICAL ENLARGED FIRST  
FLOOR DEMOLITION PLAN**  
SCALE: 1/2"=1'-0"



**3 ELECTRICAL ENLARGED SECOND  
FLOOR DEMOLITION PLAN**  
SCALE: 1/2"=1'-0"



**4 ELECTRICAL ENLARGED  
ROOF DEMOLITION PLAN**  
SCALE: 1/2"=1'-0"



**GENERAL DEMOLITION NOTES**

- REFER TO DEMOLITION SECTION OF SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- WHERE DOWNSTREAM DEVICES ARE AFFECTED BY THE DEMOLITION WORK THIS CONTRACTOR SHALL PROVIDE NEW SERVICES AS REQUIRED TO MAINTAIN SUCH DOWNSTREAM DEVICES.
- ALL DEVICES AND/OR EQUIPMENT REMOVED BY THIS CONTRACTOR SHALL BE INSPECTED BY THE OWNER FOR DETERMINATION OF DISPOSAL OR STORAGE AS DIRECTED BY THE OWNER. FOR PURPOSES OF PRICING THIS CONTRACTOR SHALL ASSUME THAT NO DEVICE OR EQUIPMENT WILL BE RE-USED UNLESS SPECIFICALLY NOTED AS SUCH.
- IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL EQUIPMENT TO BE DISCONNECTED AND/OR REMOVED. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING THEIR BID TO DETERMINE THE EXACT QUANTITY AND TYPES OF EQUIPMENT TO BE REMOVED.
- PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARDS ON THE PROJECT OR CAUSING DISRUPTION OF SERVICES REMAINING.
- ALL EXISTING EQUIPMENT INDICATED TO BE REMOVED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ALL EXISTING EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE PRESENTED TO THE OWNER IN GOOD CONDITION AT A LOCATION DESIGNATED BY THE OWNER. ALL OTHER EQUIPMENT SHALL BE REMOVED FROM THE SITE.
- REMOVE ALL ABANDONED CONDUCTORS AND EQUIPMENT NOT BUILT INTO THE BUILDING. CONSTRUCTION WHERE CEILING AND WALLS ARE REMOVED, ABANDONED WIRING SHALL BE REMOVED, AND ENDS OF LIVE SERVICES TO BE DISCONNECTED AND CUT-OFF.
- ABANDONED ELEMENTS BUILT INTO WALLS SHALL BE MARKED "ABANDONED".
- REFER TO MECHANICAL DEMOLITION PLAN FOR EXACT LOCATION AND QUANTITY OF EQUIPMENT BEING REMOVED.
- E.C. IS TO COORDINATE WITH THE G.C. ON PROTECTING THE EXISTING FEEDER, CONDUIT, TEL/DATA, AND OTHER CONDUITS ALONG.

STAMP

REV	DATE	DESCRIPTION

DATE	1/11/23
SCALE	1/2" = 1'-0"
DRAWN BY	MTG
CHECKED BY	JJM
PROJECT NO.	22009

BUILDING:

SHEET TITLE:  
**ELECTRICAL ENLARGED FLOOR  
DEMOLITION PLANS**

DRAWING NO.  
**ED-101**



TOWN OF  
GROTON

PRESCOTT SCHOOL  
ELEVATOR INSTALLATION

OWNER:  
TOWN OF GROTON  
145 MAIN STREET  
GROTON, MA 01450

ARCHITECT:  
**HELENE · KARL**  
Architects, Inc.  
61 Skyfields Drive, Groton, Massachusetts 01450

MECHANICAL ENGINEER:  
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22 WEST STREET, UNIT C  
MILLBURY, MA 01527

ELECTRICAL ENGINEER:  
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CONSTRUCTION AND ENGINEERING, INC.  
379 LIBERTY STREET  
ROCKLAND, MA 02370

ELEVATOR CONSULTANT:  
SYKA HENNESSY GROUP, INC.  
2067 MASSACHUSETTS AVE, 5TH FLOOR  
CAMBRIDGE, MA 02140

STAMP

REV DATE DESCRIPTION

DATE 1/11/23

SCALE 1"=20'-0"

DRAWN BY MTG

CHECKED BY JJM

PROJECT NO. 22009

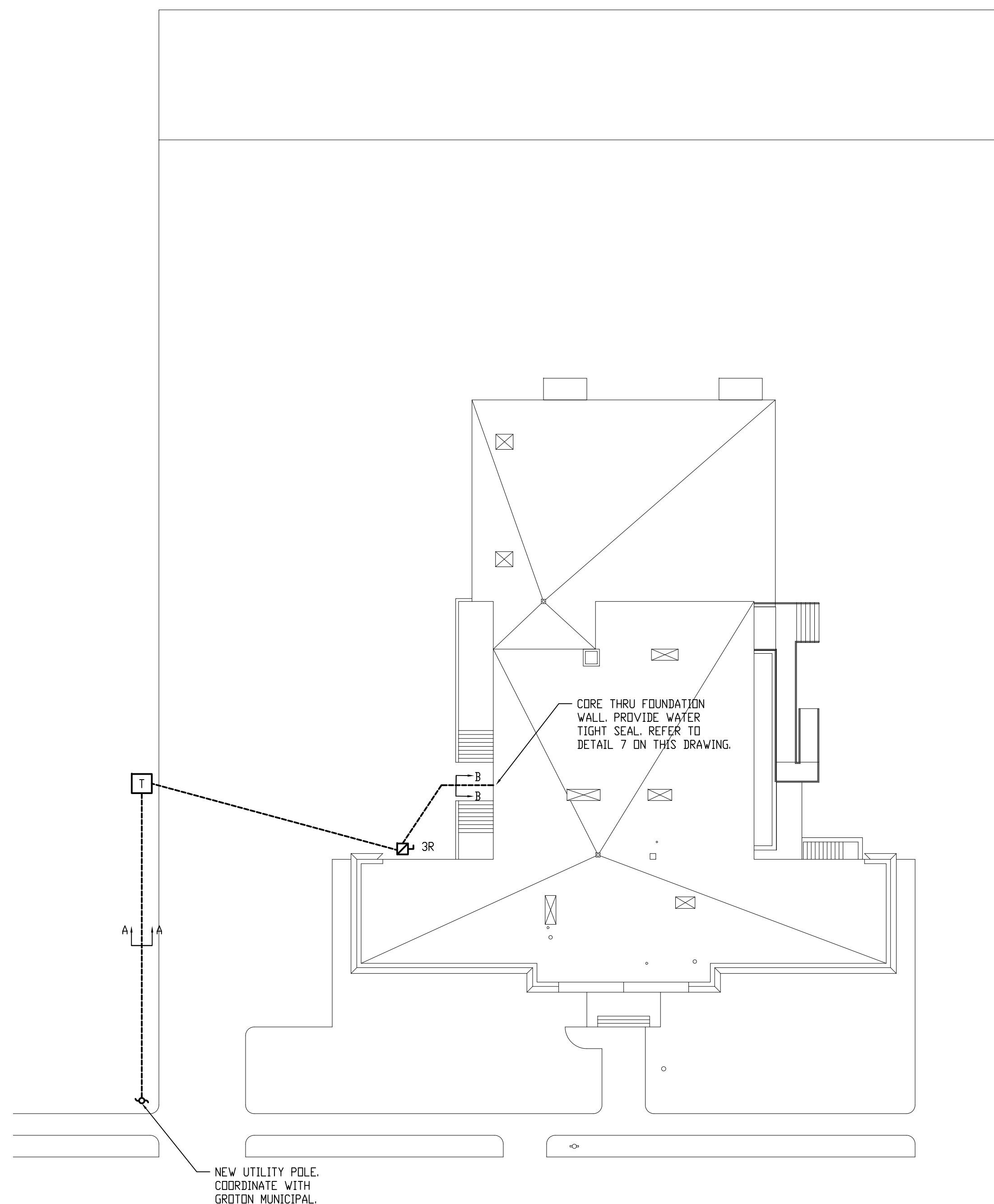
BUILDING:

SHEET TITLE:

ELECTRICAL  
SITE PLAN  
AND  
DETAILS

DRAWING NO.

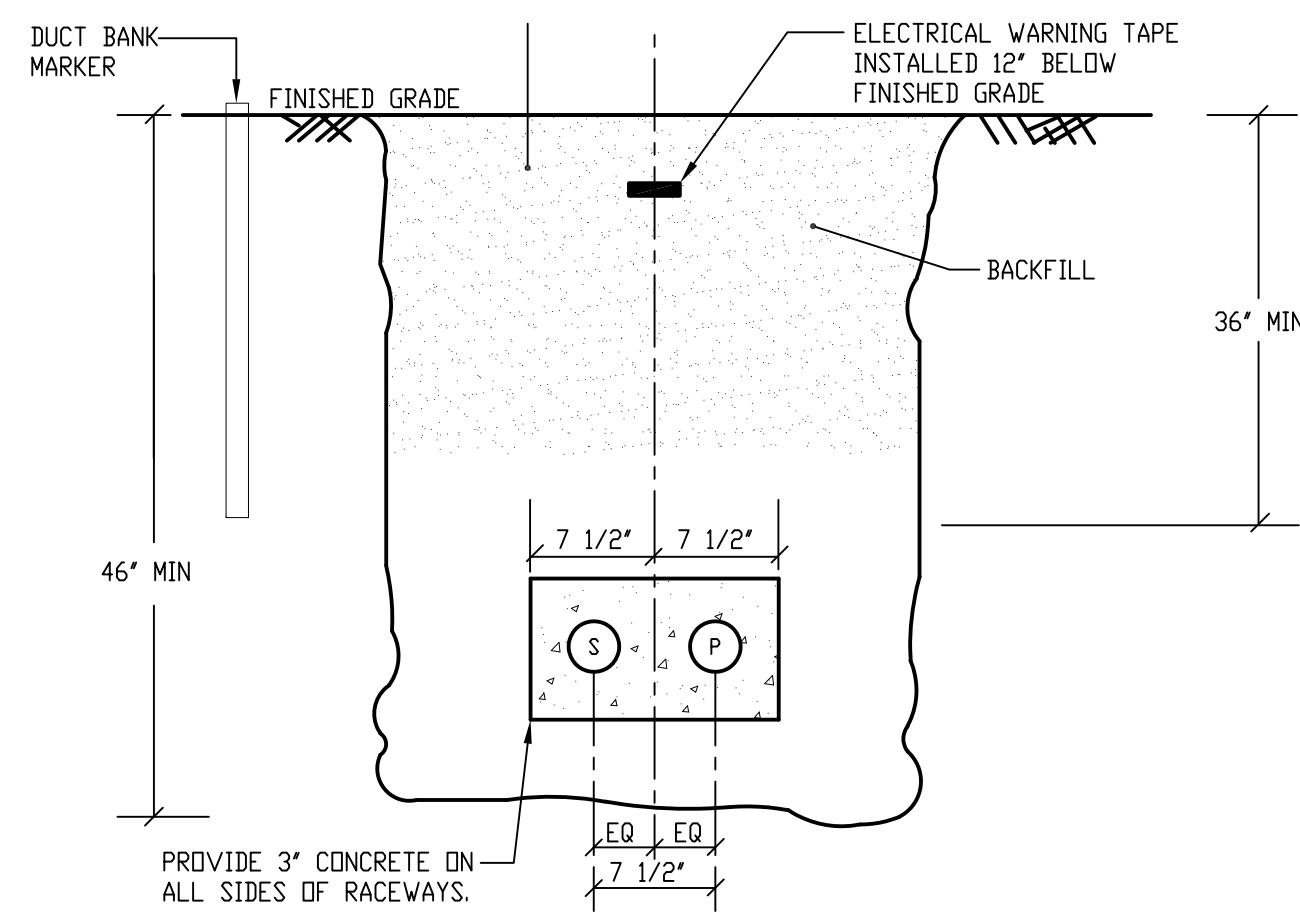
ES-101



1 ELECTRICAL SITE PLAN  
SCALE: 1/2"

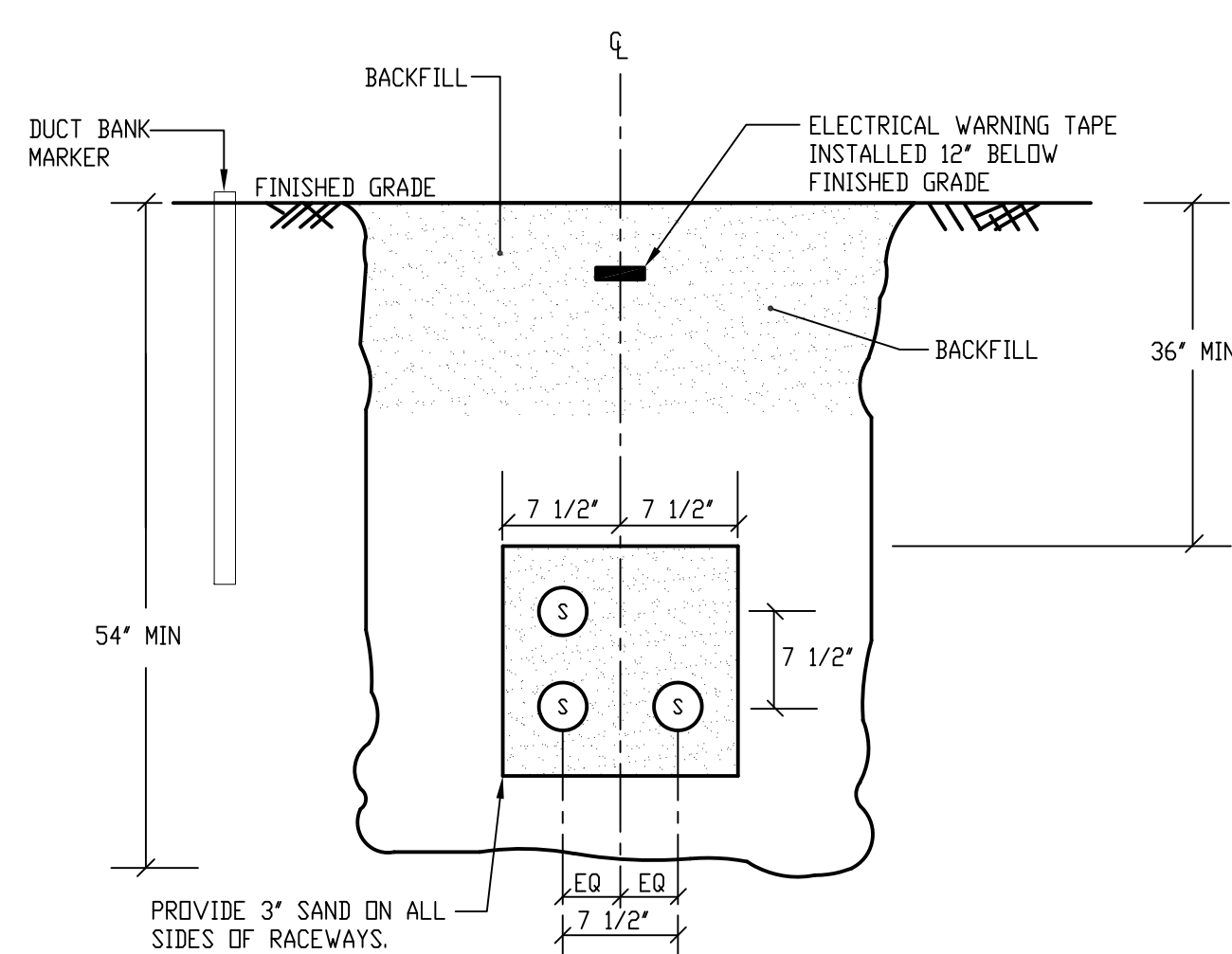
NOTES:

1. E.C. IS TO CALL DIG SAFE FOR THE UTILITIES AND HIRE A THIRD PARTY LOCATING SERVICES FOR LOCATING OTHER WIRING AND SERVICES ON THE SITE. ALSO CALL THE LOCAL DPW, WATER DEPARTMENT, AND SEWER PRIOR TO EXCAVATING. ALL DIG SAFE MARKERS AND OTHER LOCATION MARKERS ARE TO BE VIDED TAPED FOR FUTURE REFERENCES.
2. PROVIDE PAD LOCK FOR MAIN DISCONNECT ON THE BUILDING LOCK THE DISCONNECT SWITCH TO ON POSITION.



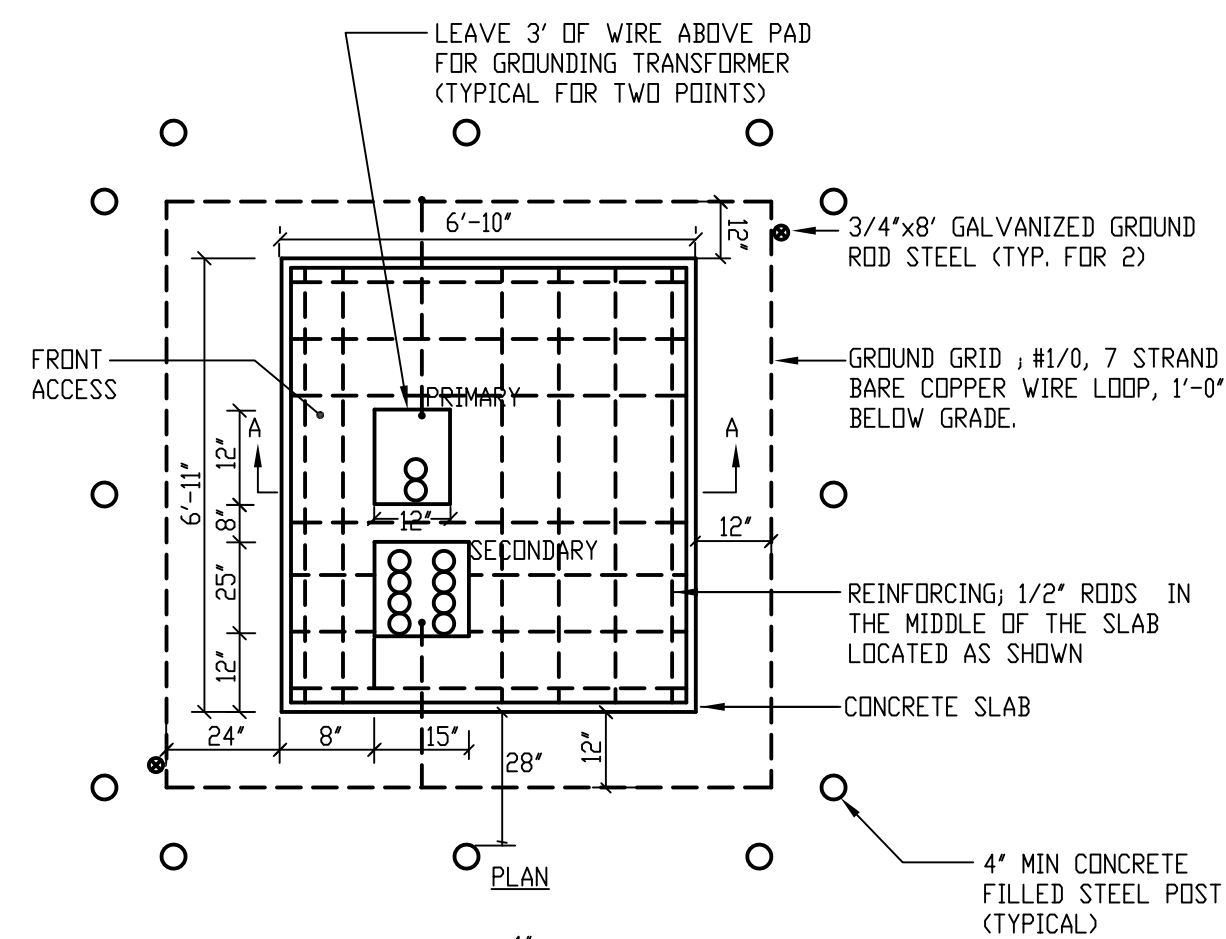
2 DUCT BANK SECTION A-A  
SCALE: NTS

- P 4" PRIM. ELEC. - SCHED 40 PVC
- S 4" SPARE - SCHED 40 PVC



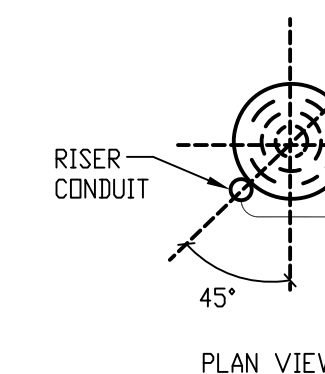
3 DUCT BANK SECTION B-B  
SCALE: NTS

- S 4" SECONDARY - SCHED 40 PVC



4 PADMOUNTED TRANSFORMER  
FOUNDATION DETAIL  
SCALE: NTS

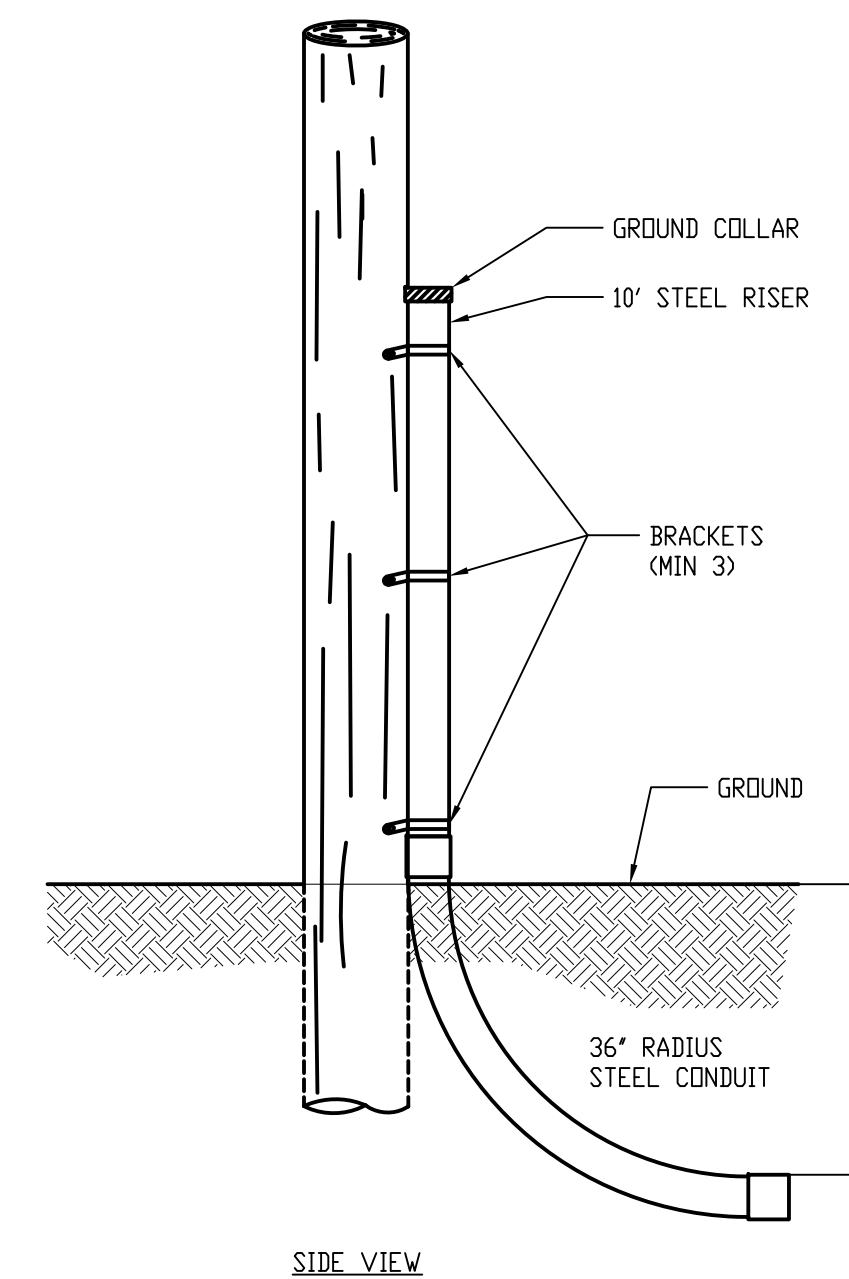
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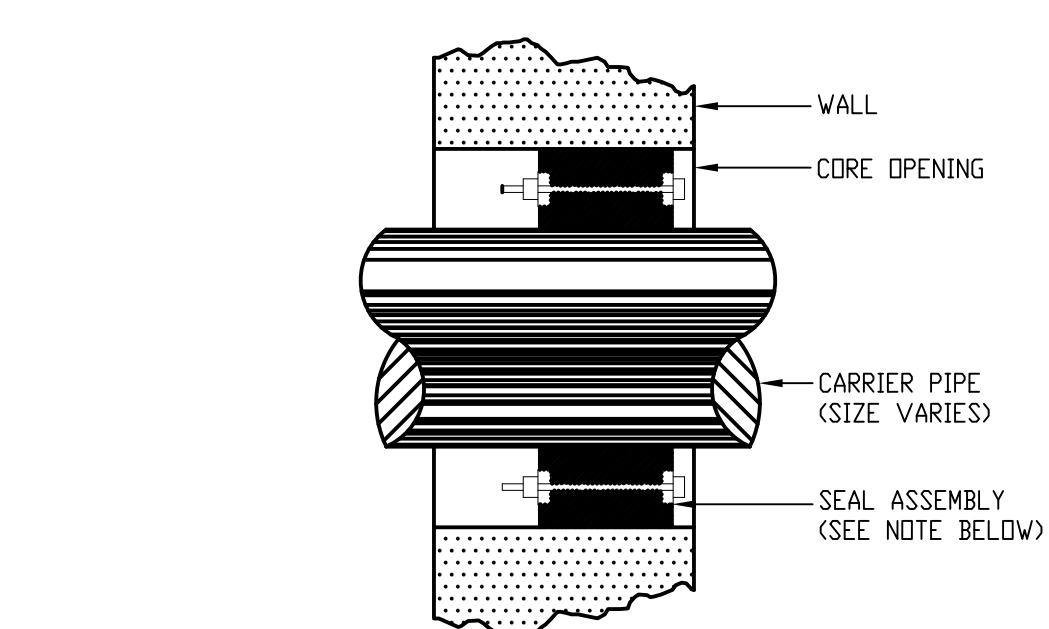
5 PRIMARY CONDUIT INSTALLATION  
ON RISER POLES  
SCALE: NTS

NOTES:

1. U-GUARD
2. GALVANIZED STEEL CONDUIT AND BEND ARE TO BE USED, THEY SHALL BE GROUNDED BY BINDING TO AN APPROVED U-BOLT TYPE GROUND CLAMP 6"(150MM) FROM TOP OF THE CONDUIT. A 24" CONDUCTOR SHALL BE PROVIDED TO EXTEND TO THE COMPANY GROUNDING CONDUCTOR. THE CONDUCTOR SHALL BE SIZED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE ARTICLE 250, BUT IN NO CASE SHALL IT BE SMALLER THAN #4 AVG COPPER. RECOMMENDED USE OF CORROSION RESISTANT BEND IN LOCATIONS SUBJECT TO HIGHWAY SALTING.
3. GALVANIZED STEEL CONDUIT, GALVANIZED STEEL SWEEP, ATTACHMENT CLAMPS, GROUNDING CLAMP AND 24" GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED BY E.C. NORMALLY, THE CONDUIT SHALL RISE ON THE SIDE OF THE POLE AWAY FROM TRAFFIC UP TO 8' TO 11'. CONSULT EVERSOURCE FOR PROPER LOCATION ON POLE.
4. PIPE STRAPS, INSTALL AT NOT MORE THAN 30" INTERVALS.
5. THE CONDUIT BURIAL DEPTH SHALL BE 30" MINIMUM.



6 PRIMARY CONDUIT INSTALLATION  
ON RISER POLES  
SCALE: NTS



NOTES: SEAL ASSEMBLY SHALL BE MODULAR MECHANICAL TYPE CONSISTING OF INTERLOCKING RUBBER LINKS SHAPED TO CONTINUOUSLY FILL IN THE ANNUAL SPACE BETWEEN PIPE & WALL OPENING. PRESSURE PLATES SHALL BE DELRIN PLASTIC BOLTS & NUTS SHALL BE 304 STAINLESS STEEL. SEALING ELEMENT SHALL BE EPDM RUBBER

7 WATERTIGHT SLEEVES (WTS)  
CORE PENETRATION (TYPICAL)  
SCALE: NTS

SCALE: NTS