

Project Summary

The following summary is a general description of the scope of work and is not intended to be an all inclusive:

1. Address water infiltration at specific areas including, but not limited to, the following:
- a. Pre-cast stone rakes

b. Pre-cast stone bands at gable ends

c. Pre-cast stone vertical joints

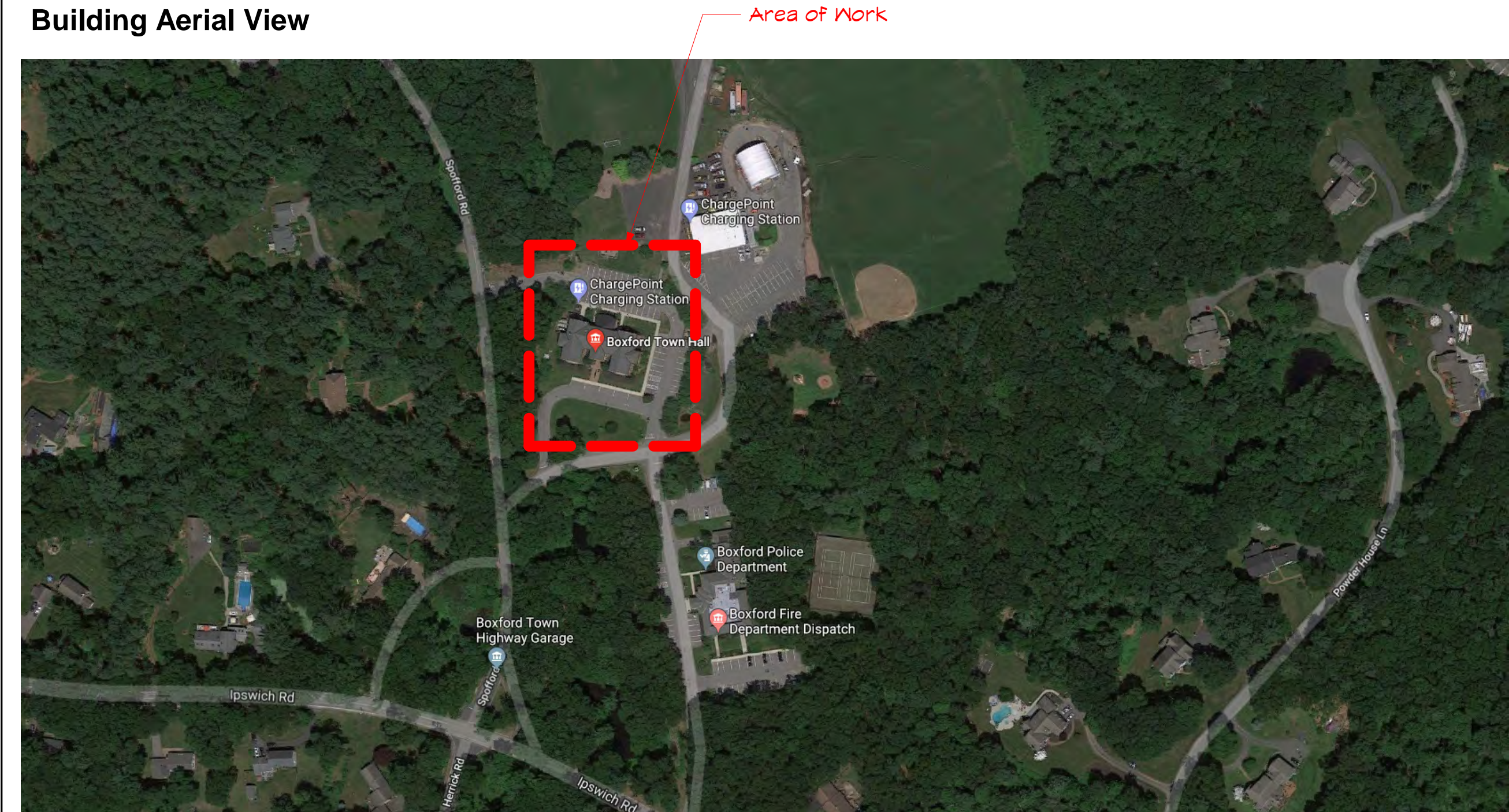
d. Pre-cast stone 'roofs' at first floor bump outs

e. Masonry gable ends

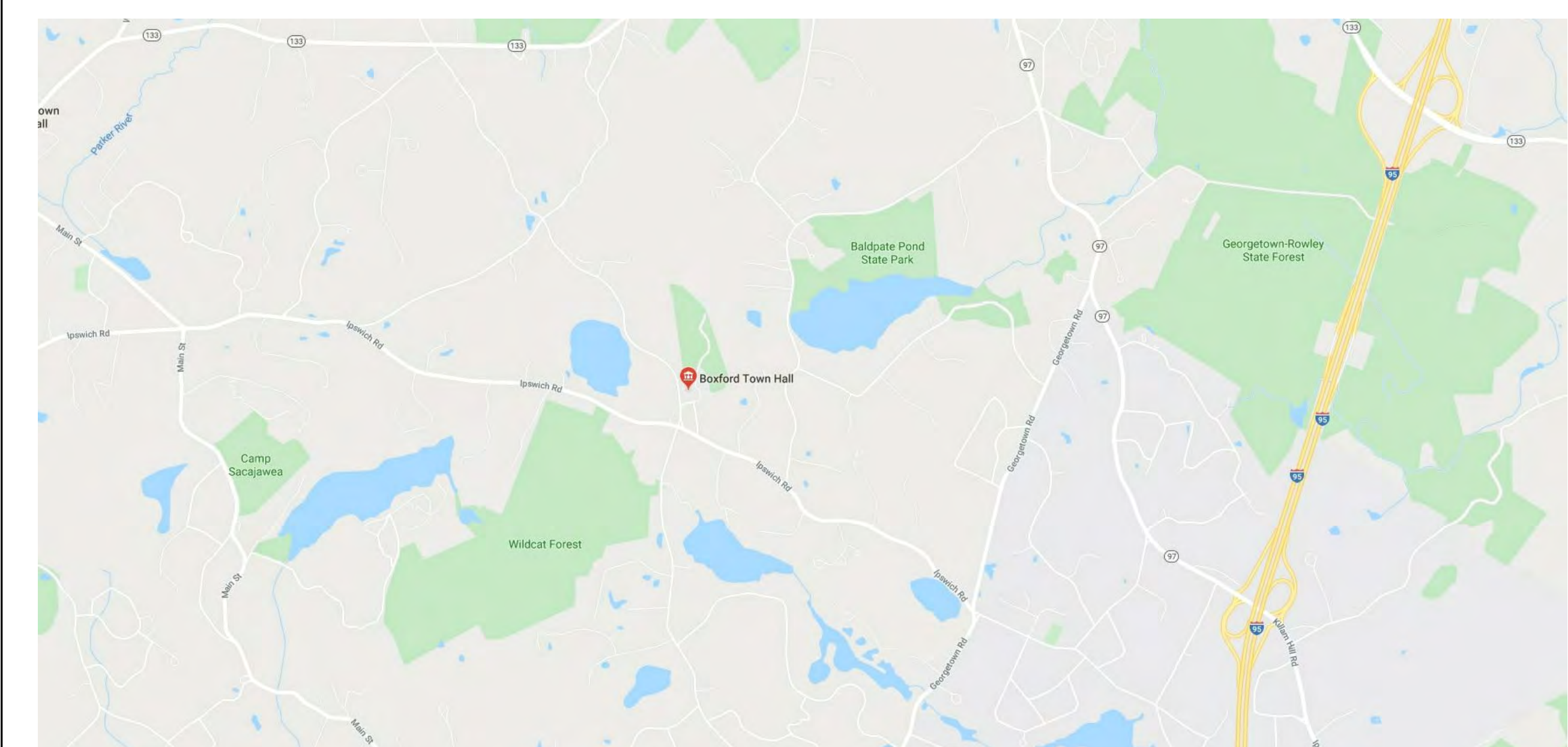
f. Second floor windows at gable ends

g. Metal roofing at roof eaves and Meeting Room roofs
2. Address site drainage issues to the east and west of the main entrance.
3. Address thermal issues at the eaves.
4. Upgrade HVAC throughout the entire building.
5. Renovate the first floor to improve the Library.

Building Aerial View



Locus Plan



Boxford Town Hall

HVAC, Exterior Repairs, Library Renovations

7 Spofford Rd, Boxford, MA 01921

7/15/2020 - Bid Set

DRAWING LIST

General Project Information		Plumbing	
G001	Title Sheet	P-1	Plumbing New Work Plans
G002	Legends, Notes, and Abbreviations	Mechanical Demolition	
Site Information		HD-1	HVAC First Floor Demolition Plan
C101	Site Plan	HD-2	HVAC 2nd Floor Demolition Plan
C101-A	Architectural Site Plan - Site Drainage	HD-3	HVAC Attic Ductwork Demolition Plan
Demolition		HD-4	HVAC Attic Piping Demolition Plan
AD111	First Floor Demolition Plan	Mechanical	
AD121	Second Floor Demolition Plan	H-0	HVAC Schedules
AD122	Second Floor Ceiling Demolition Plan	H-1	HVAC First Floor New Work Plan
Architectural		H-2	HVAC 2nd Floor New Work Plan
A111	First Floor Plan	H-3	HVAC Attic Ductwork New Work Plan
A121	Second Floor Plan	Electrical General Info	
A131	Attic Floor Plan	E0-1	Electrical Legend
A141	Roof Plan & Details	E0-2	Electrical Schedules and Power Riser
A151	First Floor Reflected Ceiling Plan	Electrical Demolition	
A152	Second Floor Reflected Ceiling Plan	ED1-0	Electrical Demolition
A201	North and South Elevation	ED2-0	Electrical 1st Floor Demolition
A202	East and West Elevation	Electrical	
A300	Exterior Building Details	E-1	Electrical New Work 1st Floor
A501	Interior Elevations and Enlarged Plans	E-2	Electrical New Work 2nd Floor
A502	Interior Elevations and Millwork	E-3	Electrical New Work Attic
A601	Partition and Door Schedules	E-4	Electrical New Work Part Plans
Fire Protection			
FP-1	Fire Protection New Work Plan		

OWNER/CLIENT

Town of Boxford

7A Spofford Road
Boxford, MA 01921

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ELECTRICAL

BLW Engineers

311 Great Road
Littleton, MA 01460
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General Notes

Project Information

- A. All work shall conform with all applicable Codes and ordinances and with accepted local standards of the trades.
- B. Only the highest quality of workmanship shall be considered acceptable and shall be firmly secured and relative to elevations and dimensions as shown in the drawings true to plumb, level, square, and line.
- C. The Contractor shall be responsible for securing all permits and approvals required for construction.
- D. Work included consists of all work shown on the drawings and in the specifications.
- E. Items noted "Not In Contract", "N.I.C.", "By [Separate] Vendor", "By [Separate] Contractor", or "By Owner" are to be neither furnished nor installed under this Contract unless noted otherwise, but are shown for informational purposes only. It is the responsibility of the Contractor to coordinate with separate vendors and contractors to complete the work of this project.
- F. If the work shown is unclear or ambiguous, the Contractor shall contact the Architect before proceeding with that aspect of work.
- G. The Contractor shall verify all conditions and dimensions in the field. The Contractor shall be expected to inspect the site for conditions affecting work and for anticipating the effects of those conditions upon his work.
- H. The Contractor shall report any and all discrepancies or omissions found in the Drawings and Specifications to the Architect. The Work affected shall not proceed until clarification is issued or permission to continue is provided.
- I. The Contractor shall not proceed with any work which he believes to be contrary to his knowledge of good construction standards and practices and shall not use any sub-standard materials.
- J. Minor details not usually shown or specified, but necessary for the proper installation or conformance with Codes or standards listed herein, shall be included in the Work.
- K. The Contractor shall place orders for all materials included in the Work by General Contractor or Subcontractor (where applicable) in time to prevent any delays in the construction schedule or completion of the Work unless noted otherwise.
- L. The Contract Documents represent the finished structure and do not indicate the methods of construction unless specifically noted otherwise. The Contractor shall supervise and direct the Work and shall be solely responsible for construction means, methods, techniques, sequences, and procedures.

Abbreviation Legend

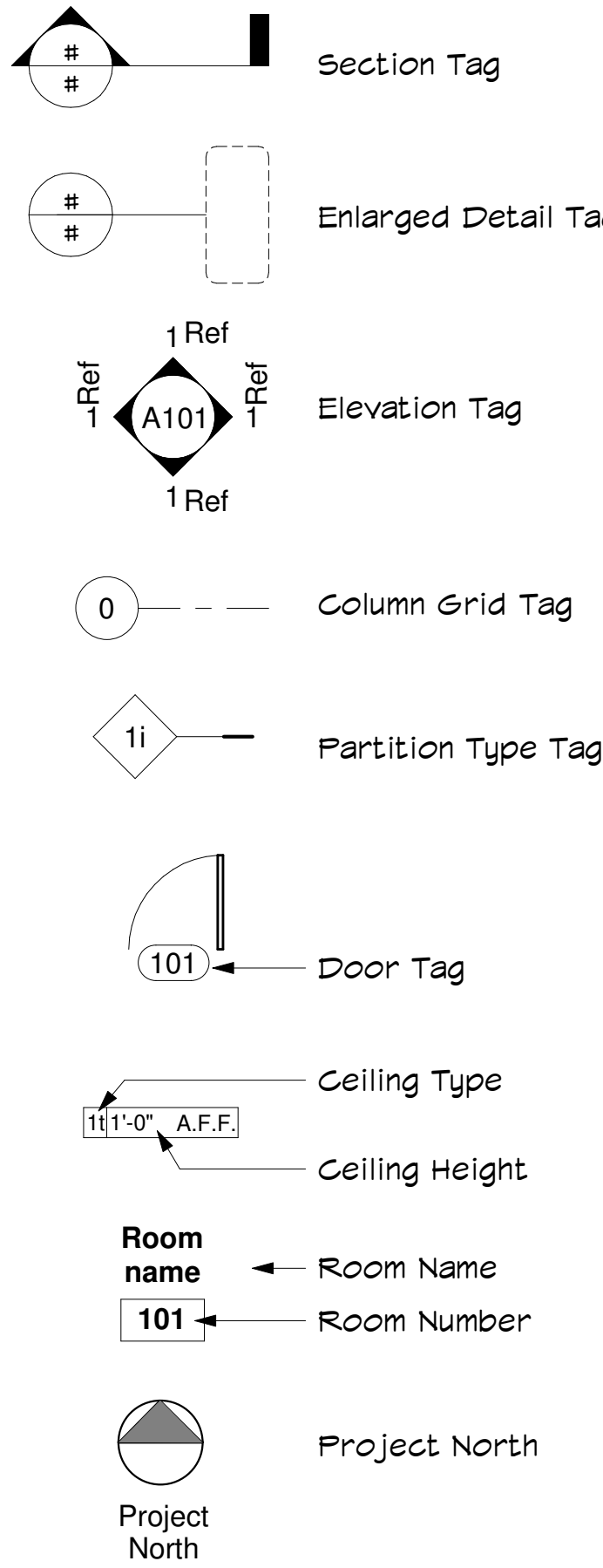
GENERAL ABBREVIATIONS:

AFF	Above Finish Floor
DS	Downspout
DWGS	Drawings
ERV	Energy Recovery Ventilator
FCU	Fan Coil Unit
FND	Foundation
FR	Fire Rated
NIC	Not in Contract
OC	On Center
PT	Pressure Treated
SAFB	Sound Attenuation Fire Batt
SATC	Suspended Acoustical Tile Clg.
T	Tempered
TBD	To be determined
TS	Transition Strip
UNO	Unless Noted Otherwise
VIF	Verify in Field

FINISHES ABBREVIATIONS:

See Finish Plan for a list of finish abbreviations.

Symbol Legend



Coordination

- A. The Contractor shall be responsible for coordinating all aspects of the Work and shall inform the Owner of his work schedule and any anticipated changes that may occur in it.
- B. Each Subcontractor shall be responsible to coordinate with the work of other Subcontractors.
- C. Each trade shall coordinate its work as is practical and will interfere as little as possible with the work of other trades and persons. It will be assumed that each trade has accepted the quality of the work of others upon which his work must be applied.
- D. The Contractor shall contact the Owner / Tenant immediately if they encounter any hazardous materials.

Dimensions, Measurements, and Layout

- A. Dimensions shall take precedence over graphic representations. Scaling of the drawings for dimensions or locations of materials or equipment is considered unacceptable.
- B. Larger scale drawings take precedence over smaller scale drawings.
- C. Notes and details on Drawings shall take precedence over General Notes and Typical Details. Written Specifications take precedence over graphic representation of materials and items as well as their locations. Should any of the detailed instructions on the drawings conflict with the notes or specifications or with each other, the strictest provision shall apply.
- D. All dimensions are to finish materials unless noted otherwise.
- E. Dimensions to side or center of doors or windows are to finish openings unless noted otherwise.
- F. The Contractor shall be responsible for locating and laying out the Work (including elevations). The Contractor shall exercise proper precaution to verify figures shown on the Drawings while laying out the Work, and be responsible for all errors resulting from failure to exercise such precaution.



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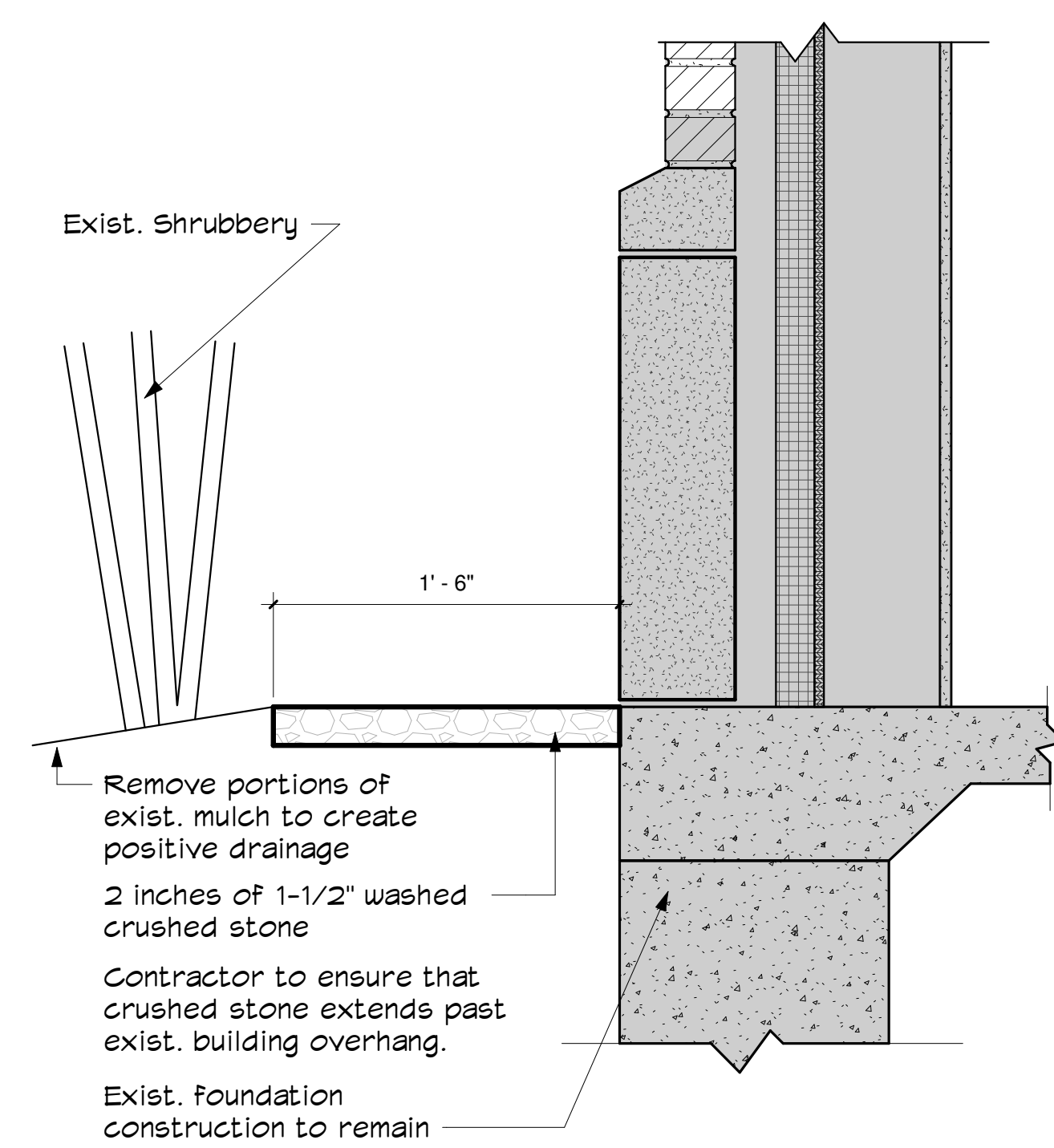
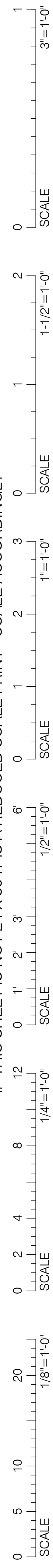
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Drawn by: IB
Check by: IB
Date: 7/15/2020
Scale: 3/16" = 1'-0"

Legends, Notes,
and
Abbreviations

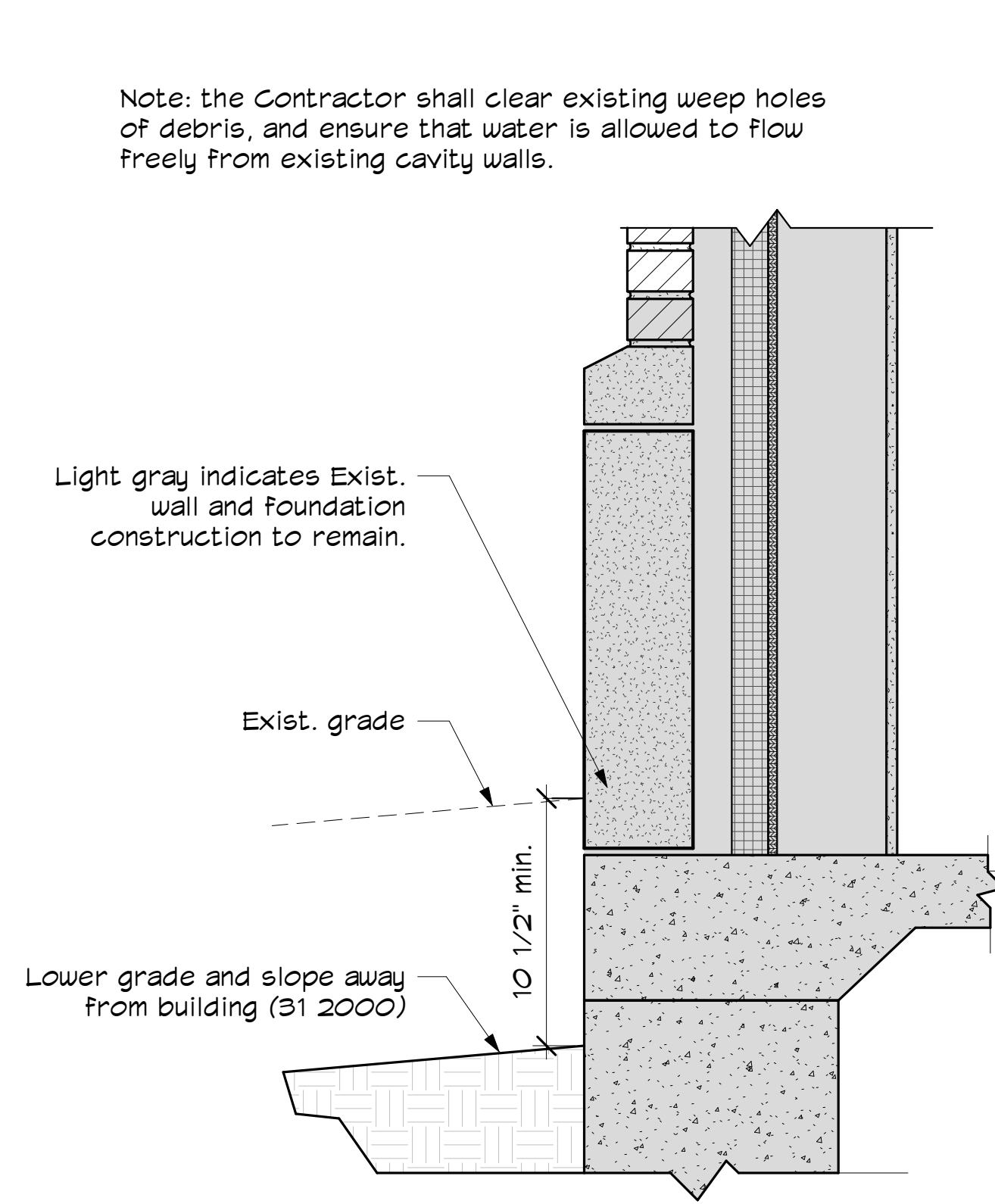
G002

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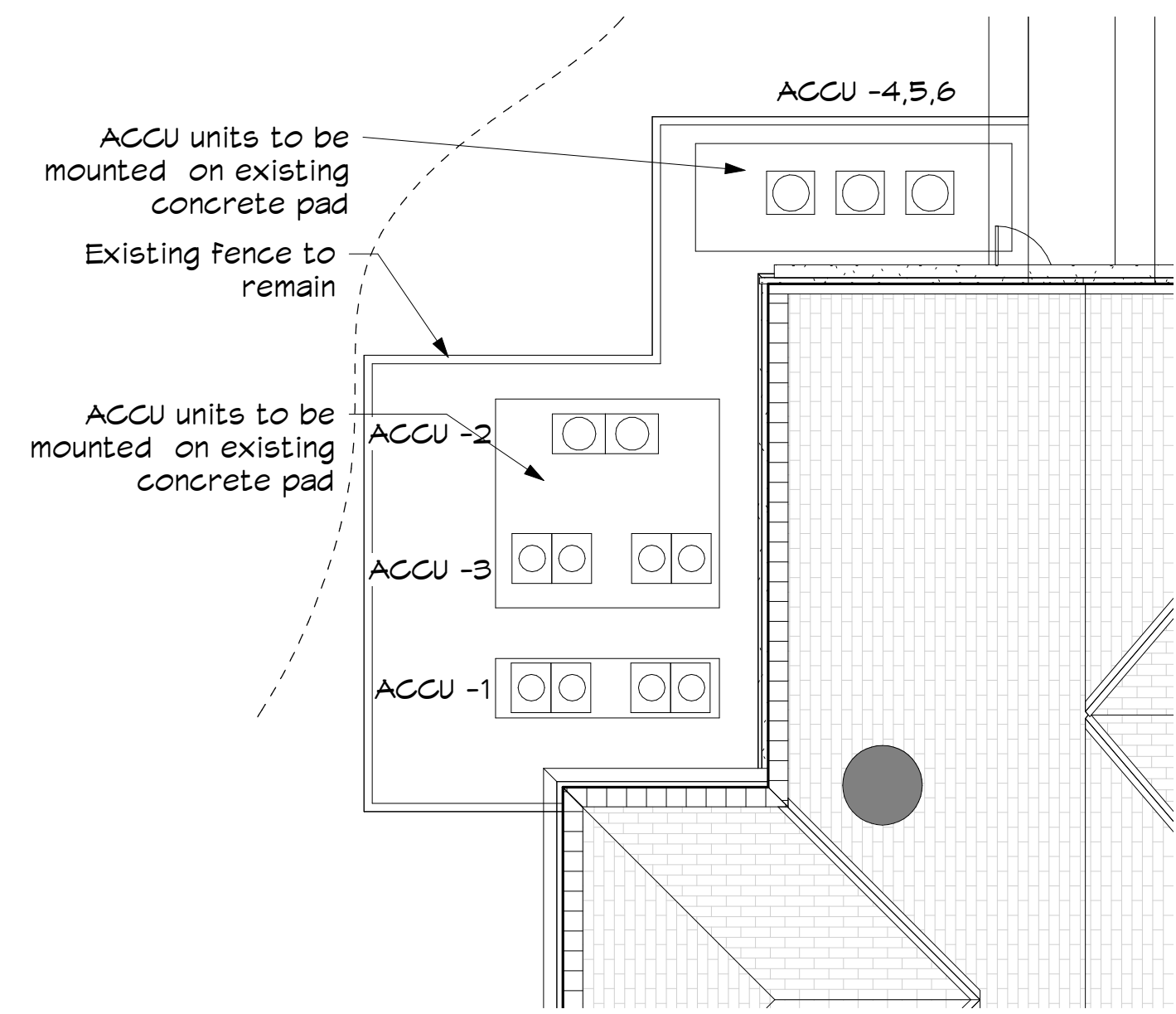
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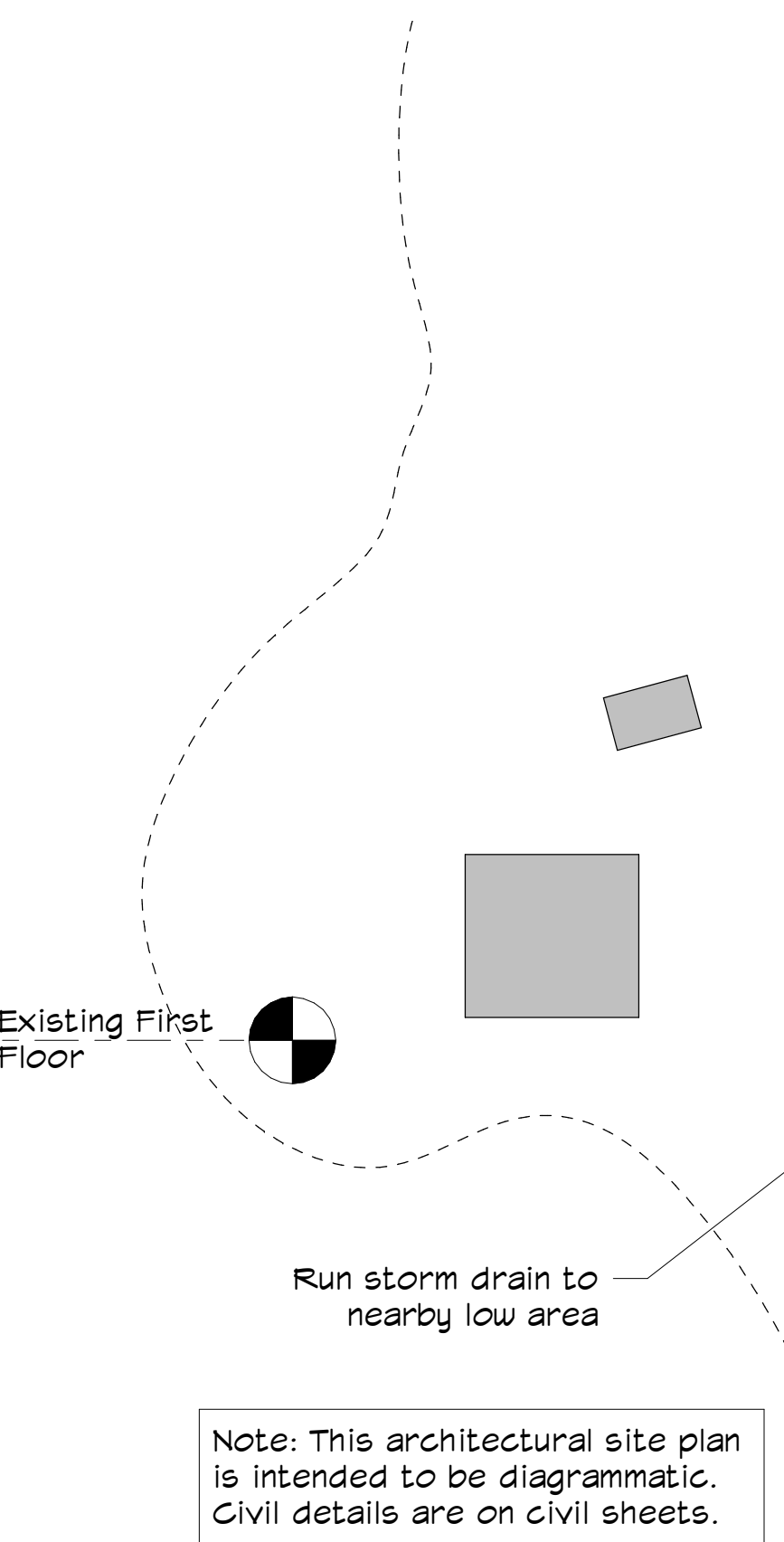
⑤ Drainage Detail
1 1/2" = 1'-0"



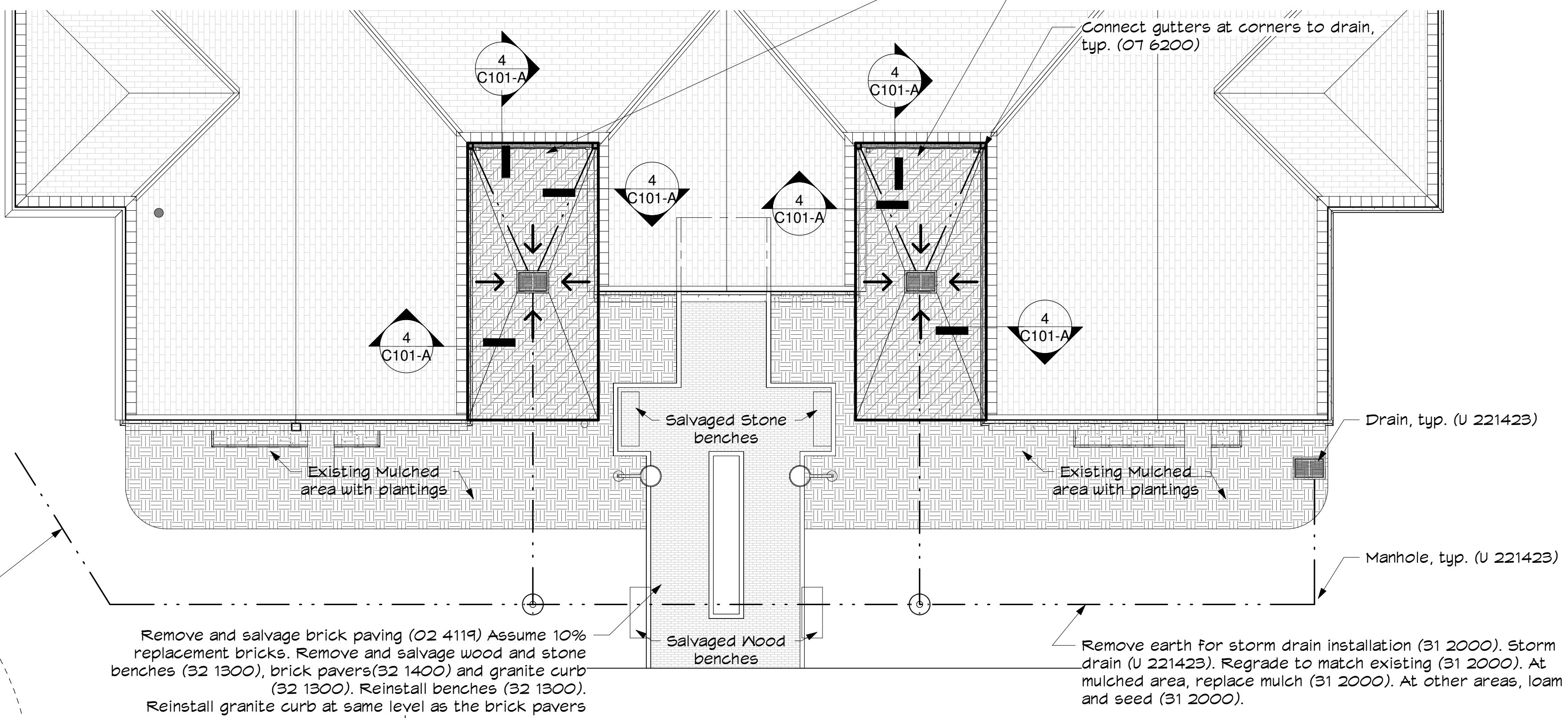
④ Detail at Lowered Grade
1 1/2" = 1'-0"



③ Detail at Exterior Mech Area
1/8" = 1'-0"



② Detail at Regraded Area
1/8" = 1'-0"



① Site Plan
1/32" = 1'-0"

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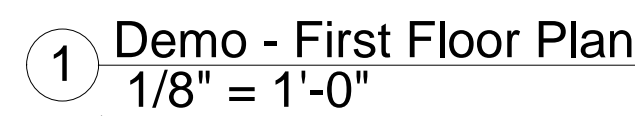
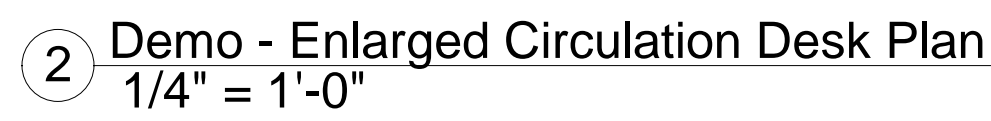
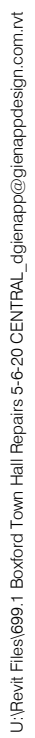
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**Architectural
Site Plan - Site
Drainage**

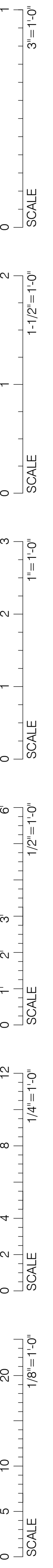
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AD111

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Ceiling Legend

Ceiling Type

11'-0" A.F.F.

Ceiling Height

If room has a ceiling tag, it indicates provide ceiling. If room does not have a ceiling tag, it indicates existing ceiling to remain.

2 x 2 Direct/indirect lay-in fixture - see electrical drawings

6" Recessed LED Can - see electrical drawings

FCU Indoor Units. See HVAC Drawings

Exit Signage; coordinate with electrical drawings

Sprinkler head. See Fire Protections drawings

Sprinkler head. See fire Protections drawings

Sprinkler head. See Fire Protections drawings

Remove, salvage, and reinstall ceiling tiles (095123) to provide access for eave insulation installation (072100)

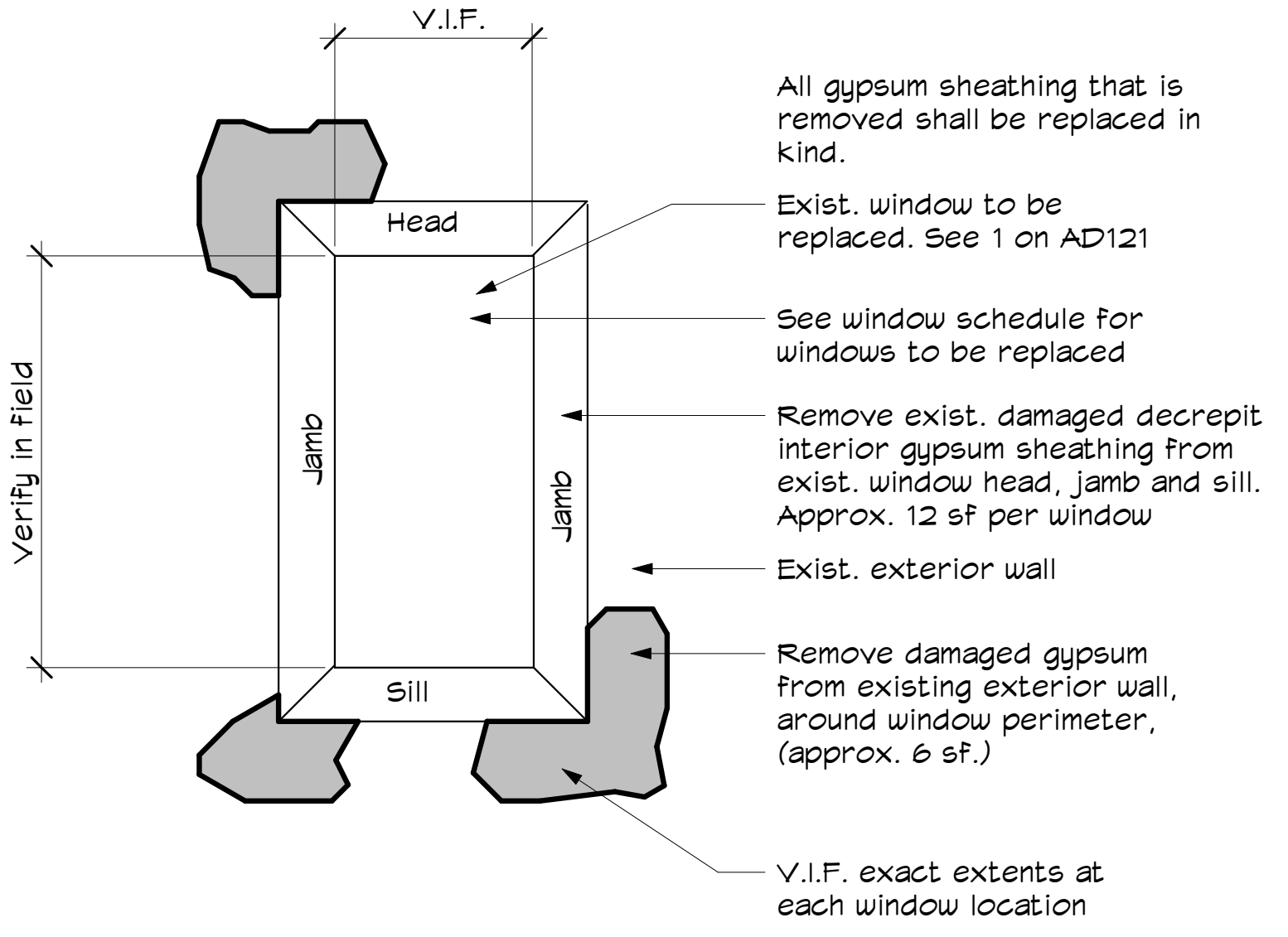
Ceiling to be removed, salvaged, and reinstalled to allow for access to roof eave work (09 5123)

Type Legend

A. 24" x 24" Suspended acoustical tile ceiling and grid

B. GNB on suspended system

Note:
For existing ceiling tiles at second floor, GC shall assume replacement of 10% of existing tiles affected by the work of this project due to damage during construction.



Demolition Legend

Item to be removed and disposed. (by 02 4119 u.n.o.)

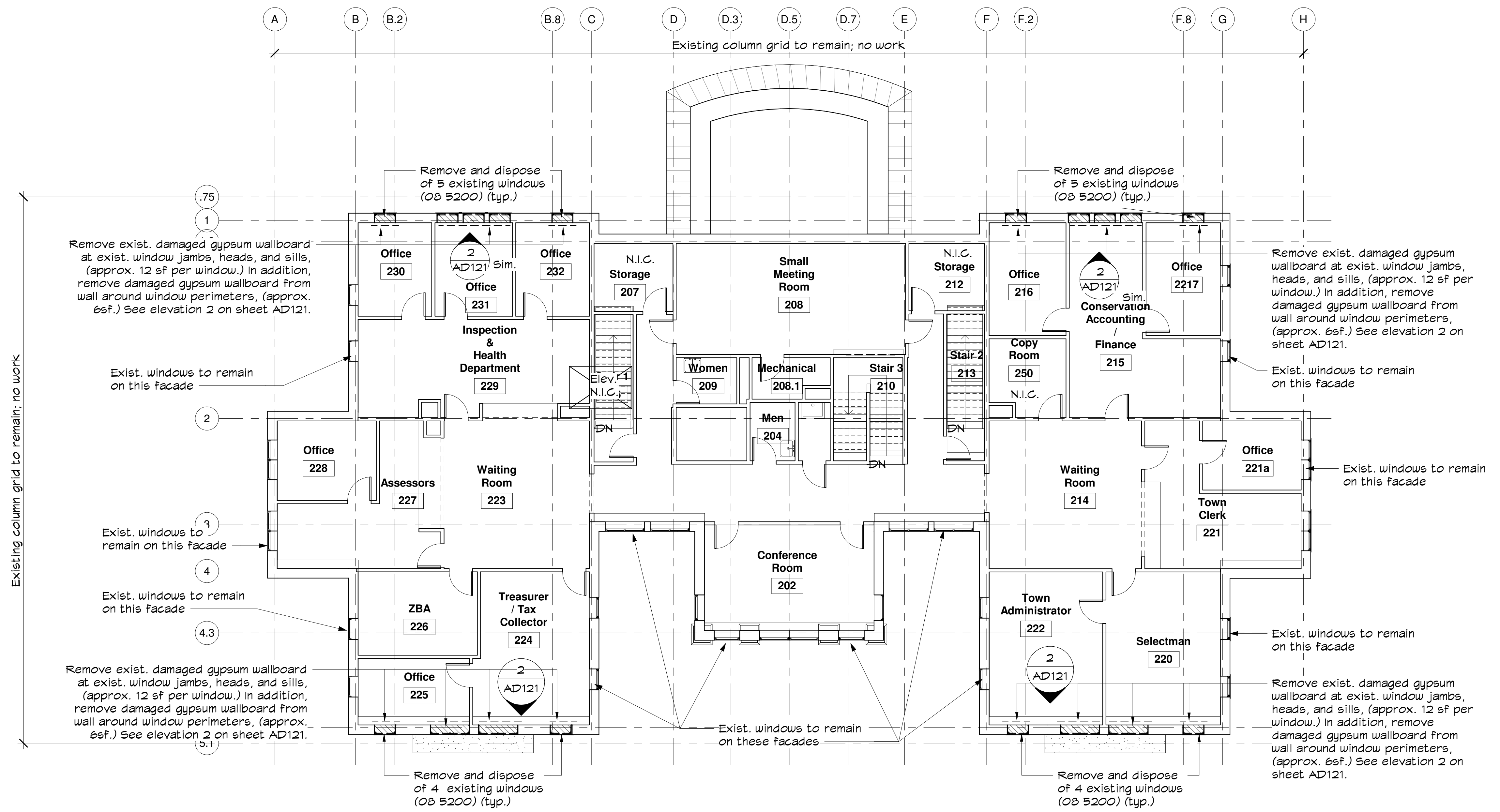
Partition to remain

Item to be removed and salvaged

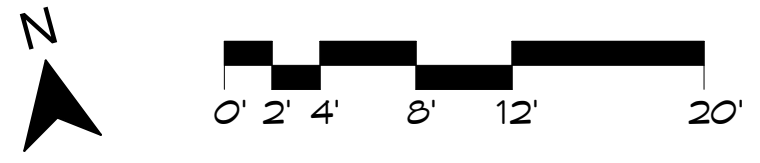
Stone floor to be removed

Note:
1. Dashed lines on demolition plans indicates items to be removed and continuous lines indicates items to remain u.n.o.
2. For RCP demolition information, see sheets A150 & A151.
3. Where flooring is shown to be removed, also remove and dispose of flooring underlayment such that the remaining surface is ready for new flooring.
4. For Roof demolition, see Sheet A141

2 GNB Demolition at Windows
1/2" = 1'-0"



1 Demo - Second Floor Plan
1/8" = 1'-0"



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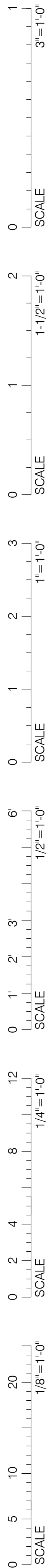
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Second Floor
Demolition Plan

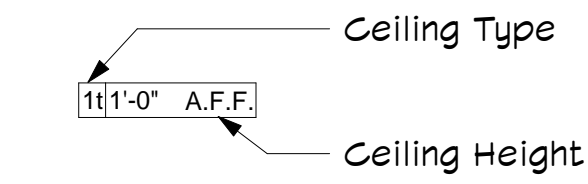
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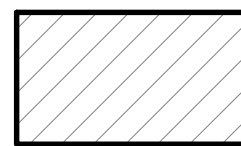
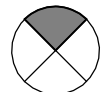
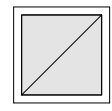
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Ceiling Legend



If room has a ceiling tag, it indicates provide ceiling. If room does not have a ceiling tag, it indicates existing ceiling to remain.

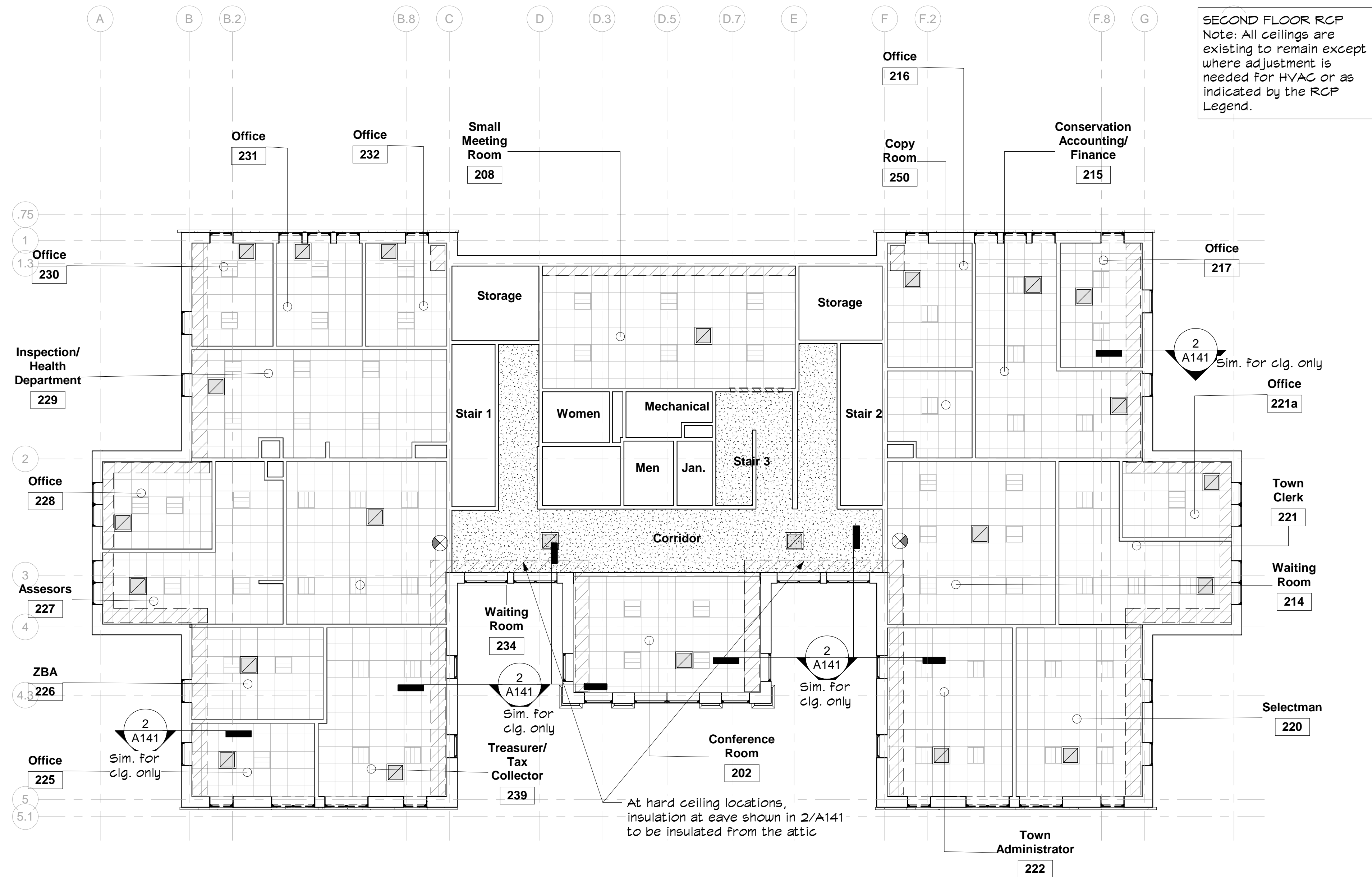


Type Legend

A. 24" x 24" Suspended acoustical tile ceiling and grid

B. GNB on suspended system

Note:
For existing ceiling tiles at second floor, GC shall assume replacement of 10% of existing tiles affected by the work of this project due to damage during construction.



1 Second Floor Ceiling Demolition Plan
1/8" = 1'-0"



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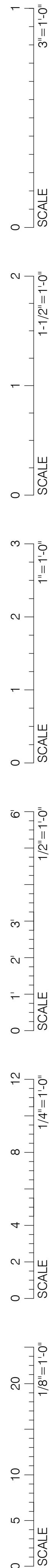
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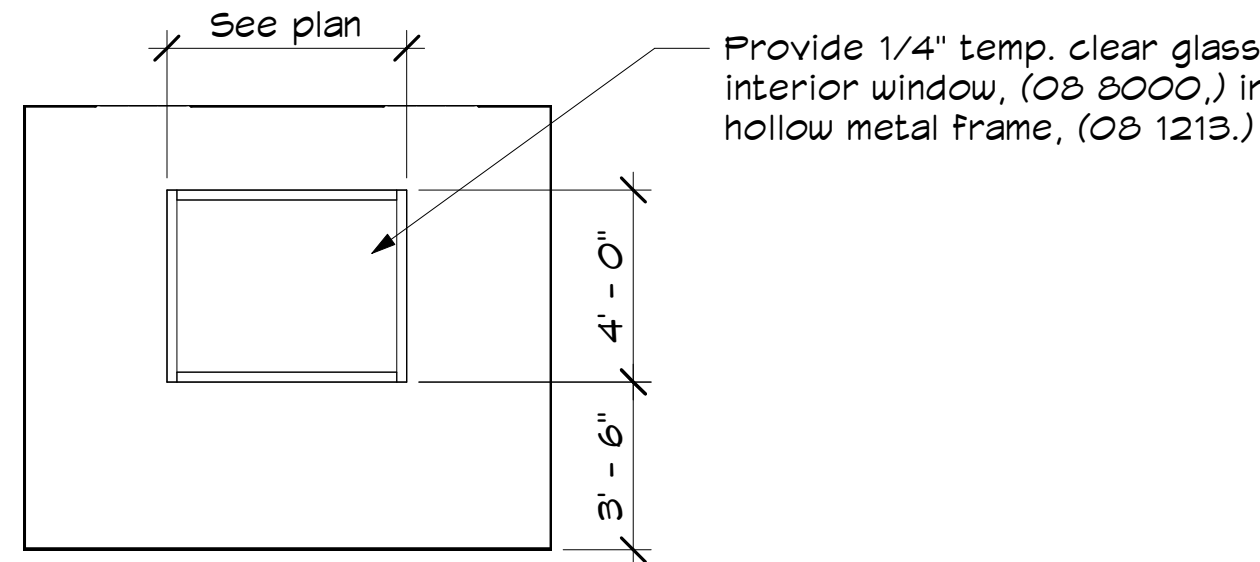
Second Floor
Ceiling
Demolition Plan

AD122

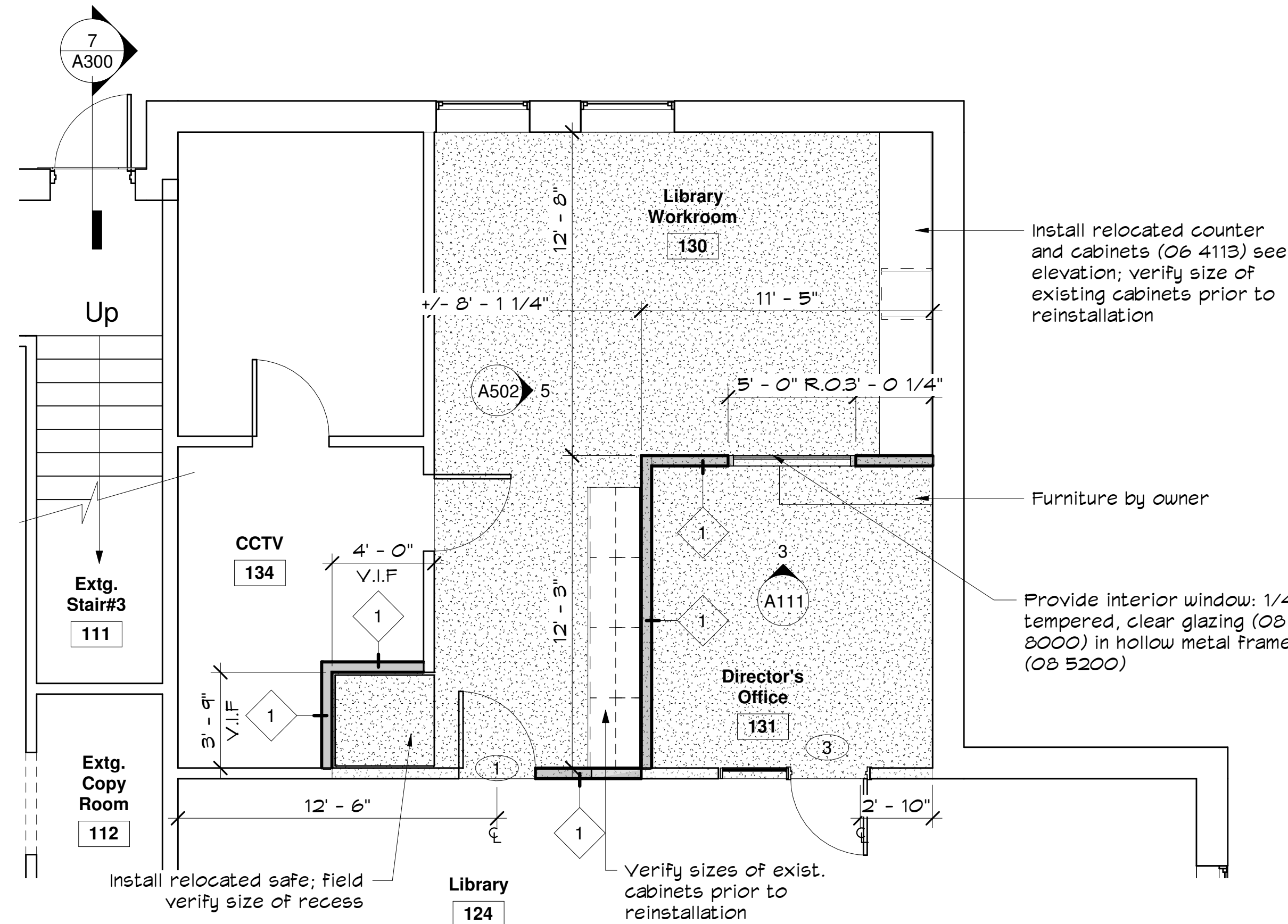
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3 Elevation at Director's Office
1/4" = 1'-0"



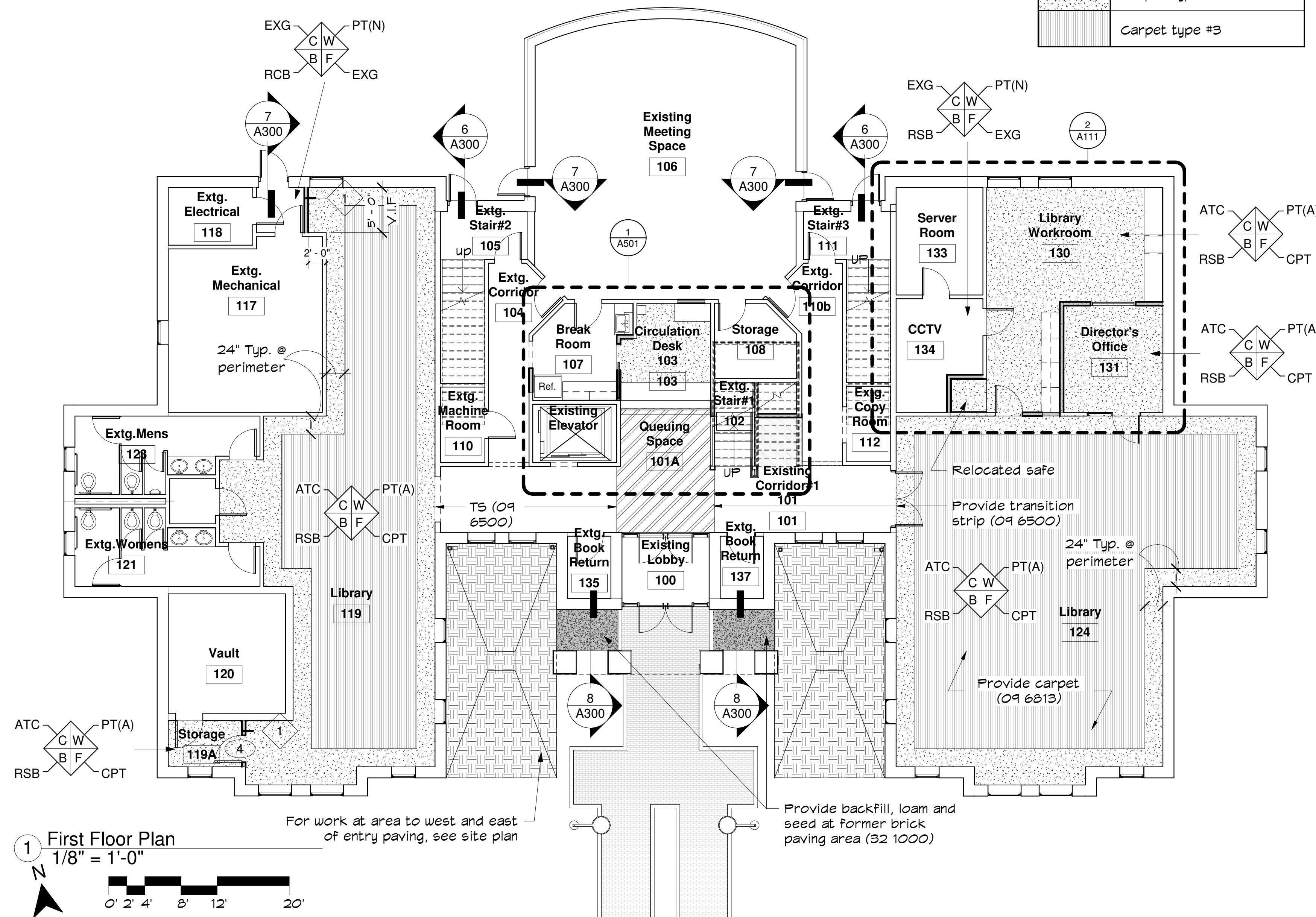
2 First Floor Plan
1/4" = 1'-0"



Finish Legend	
Ceiling Finish	Wall Finish
Base Finish	Floor Finish
Finish Abbreviations	
ATC	Acoustical tile ceiling - see RCPs
CPT	Carpet - see Flooring Legend
GWB	Gypsum white board, paint
PT(A)	Paint all walls
PT(N)	Paint new GWB and hosting wall from room corner to room corner
RCB	Resilient cove base
RSB	Resilient straight base
ST	Stain wood
WD	Wood, stain to match
Notes:	
1. See floor plan for patterns.	
2. See ceiling plan for patterns.	
3. In general, when a surface receives paint, it is intended to be from room corner to room corner.	
4. If a room does not have a finish tag (as shown above) it indicates existing to remain unless noted otherwise.	

Construction Legend	
	New Carpet
	New Partition
	Existing Partition
	New Door
	Existing Door
	Overhead Cabinet
Note:	
1. At existing partitions where an intersecting partition was removed, patch interior gypsum sheathing for seamless appearance.	
2. At windows where damaged gypsum wallboard has been removed from heads, jambs and sills, and at the walls, provide new gypsum wallboard patches and repairs.	
3. At new partitions, resurfaced partitions, 4 patched / repaired walls, heads jambs and sills, G.C. shall paint from room corner to room corner, and from finish floor to 12" above finish ceiling (09 9123)	

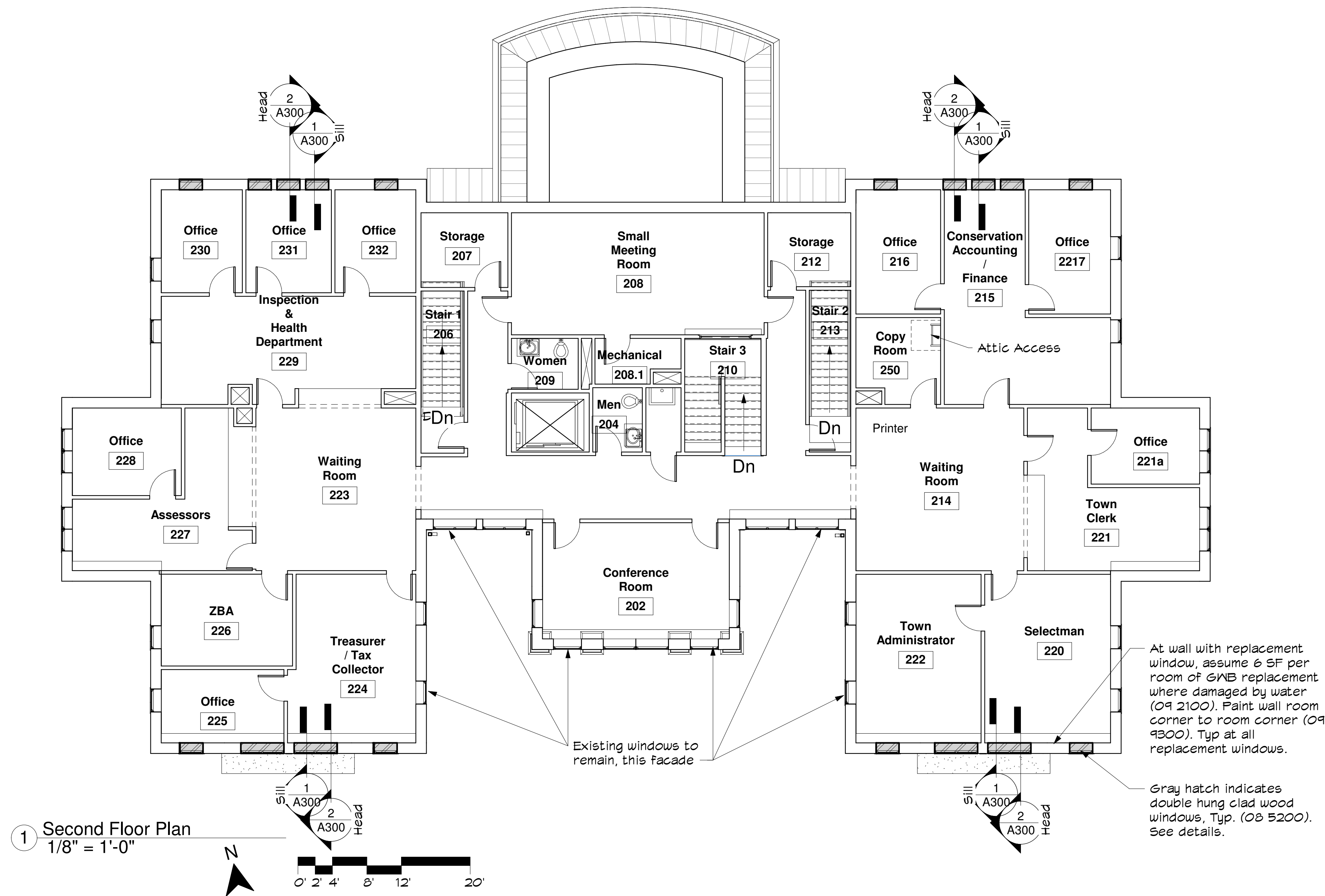
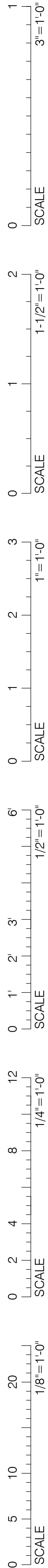
Flooring Legend	
	Carpet type #1
	Carpet type #2
	Carpet type #3



1 First Floor Plan
1/8" = 1'-0"

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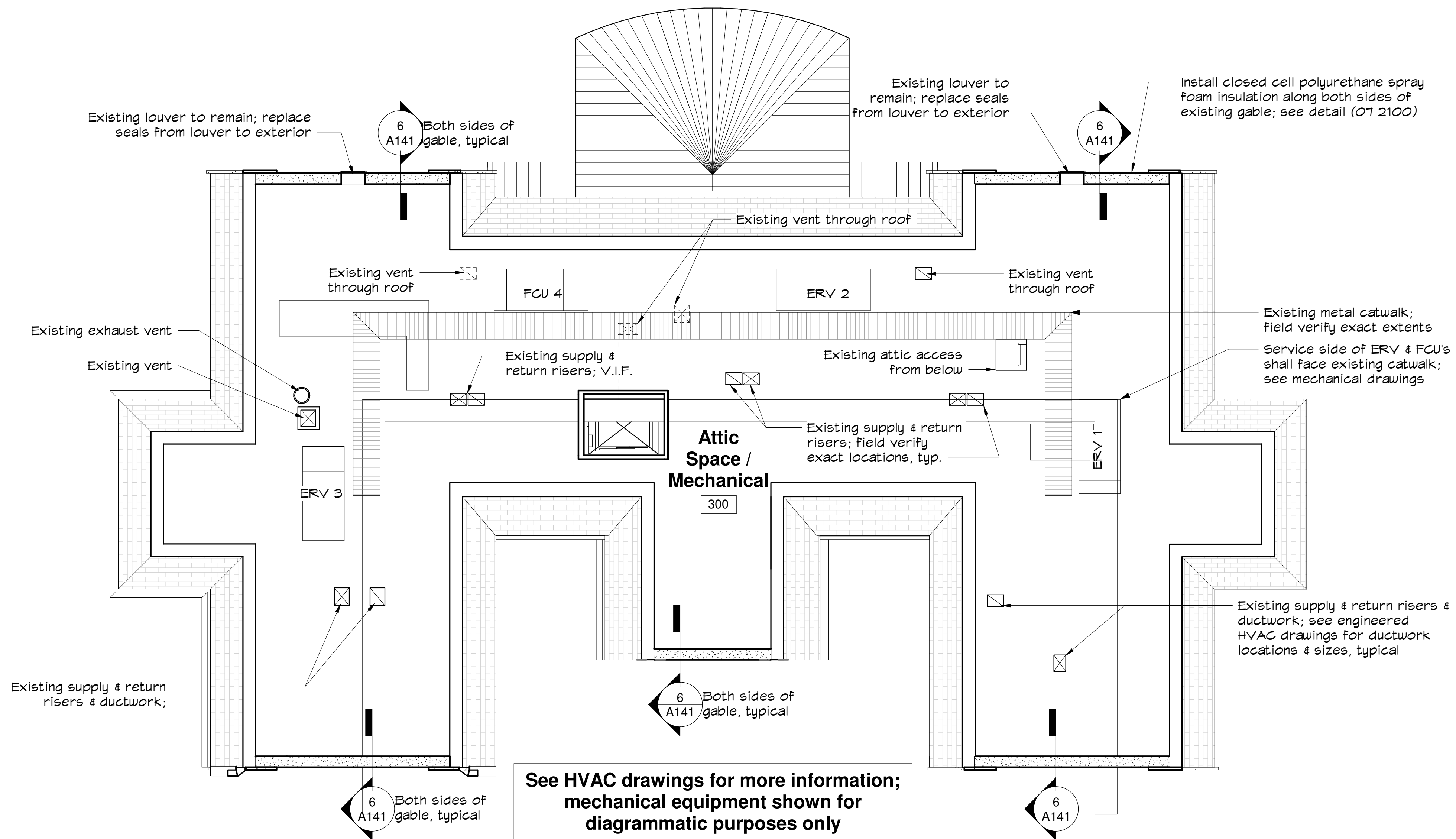
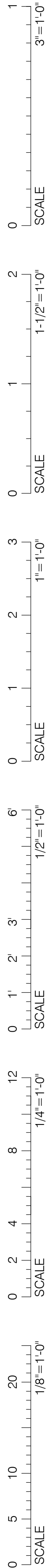
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**Second Floor
Plan**

A121

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1 Attic Floor Plan
1/8" = 1'-0"



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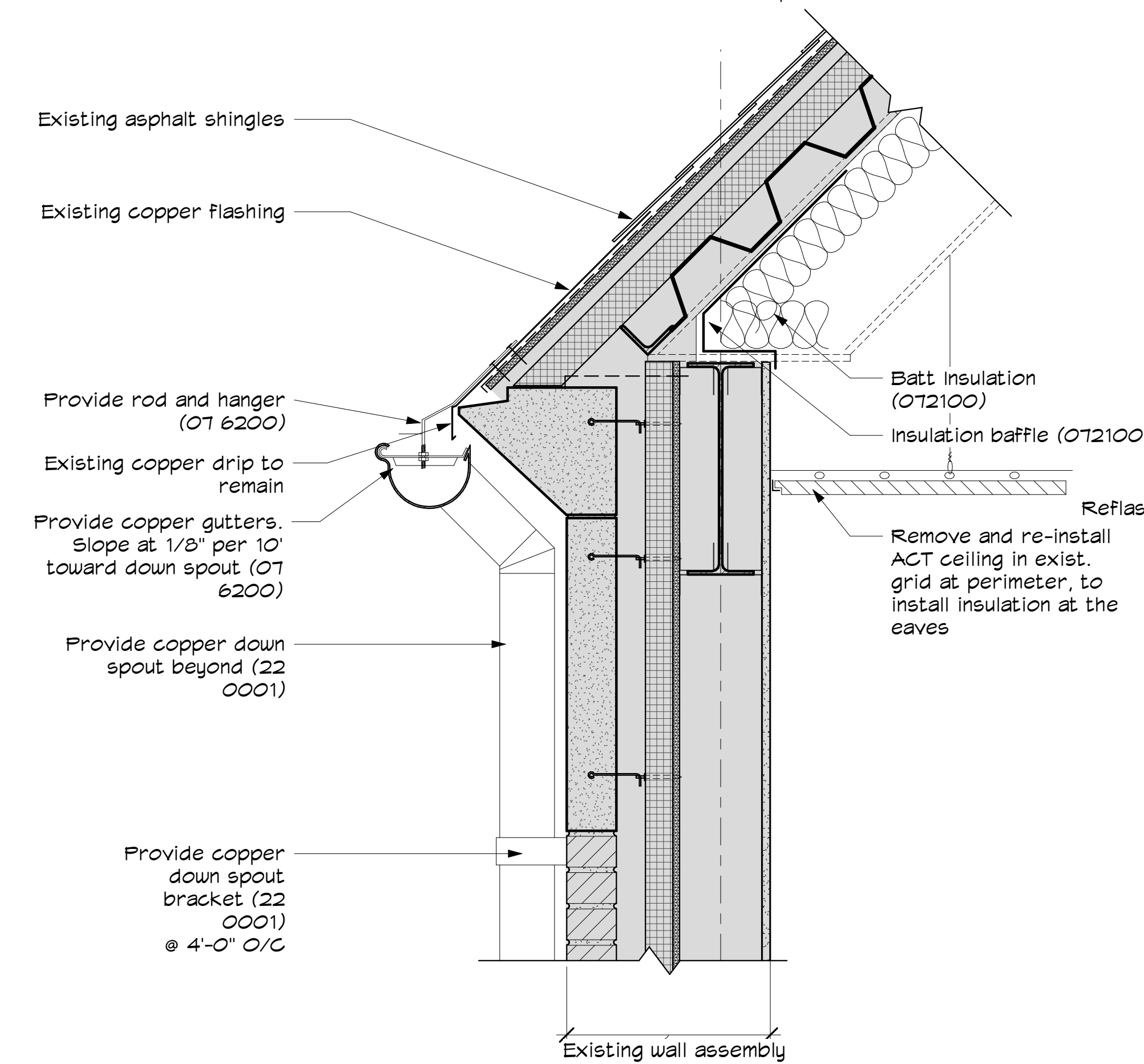
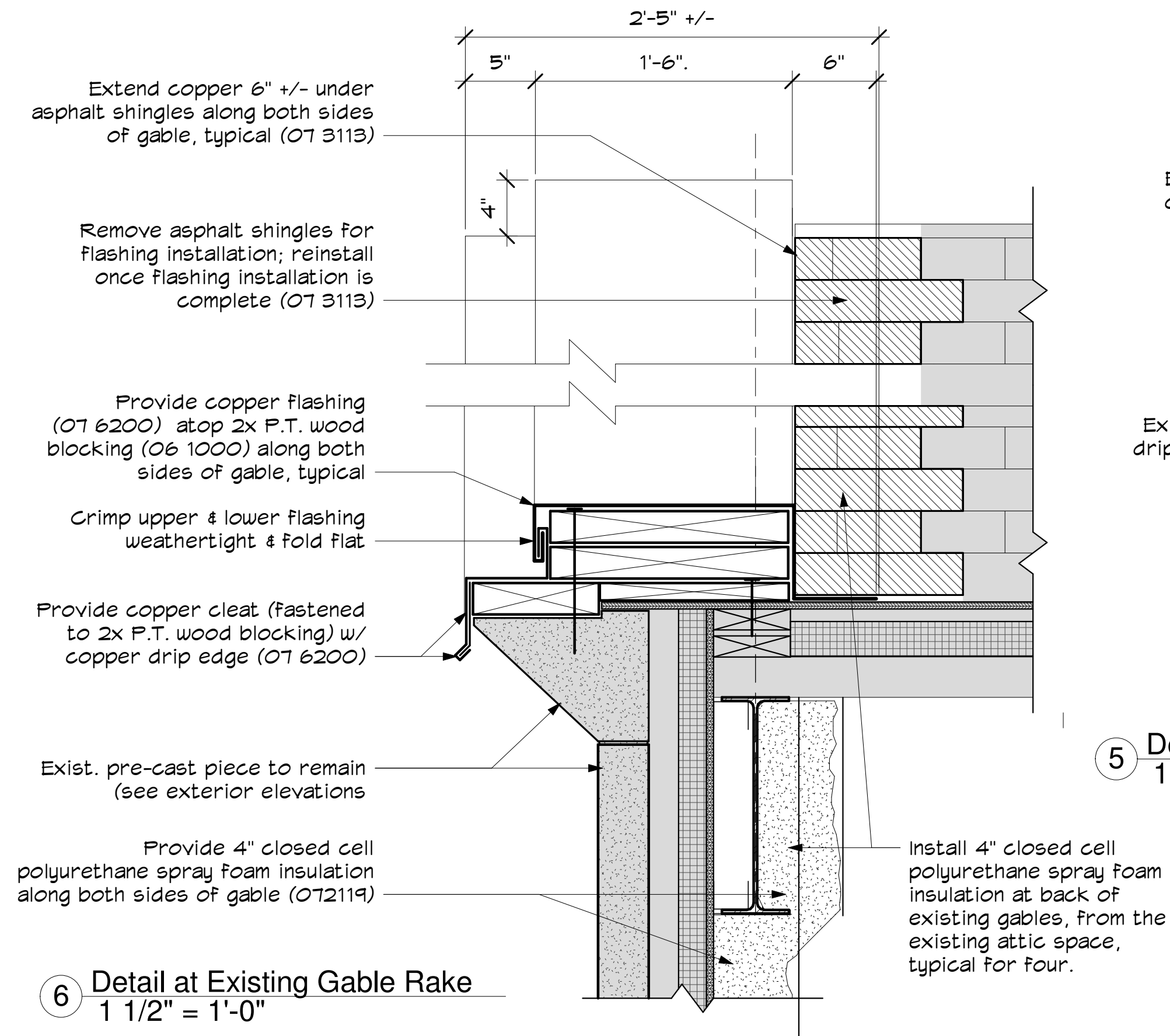
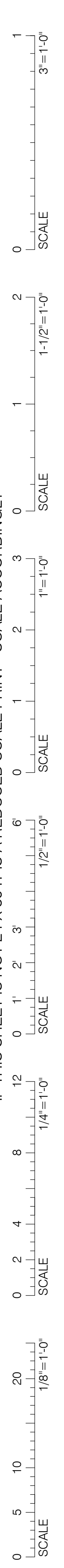
Project: 699.1
Drawn by: RK
Check by: IB
Date: 7/15/2020
Scale: 1/8" = 1'-0"

Attic Floor Plan

A131

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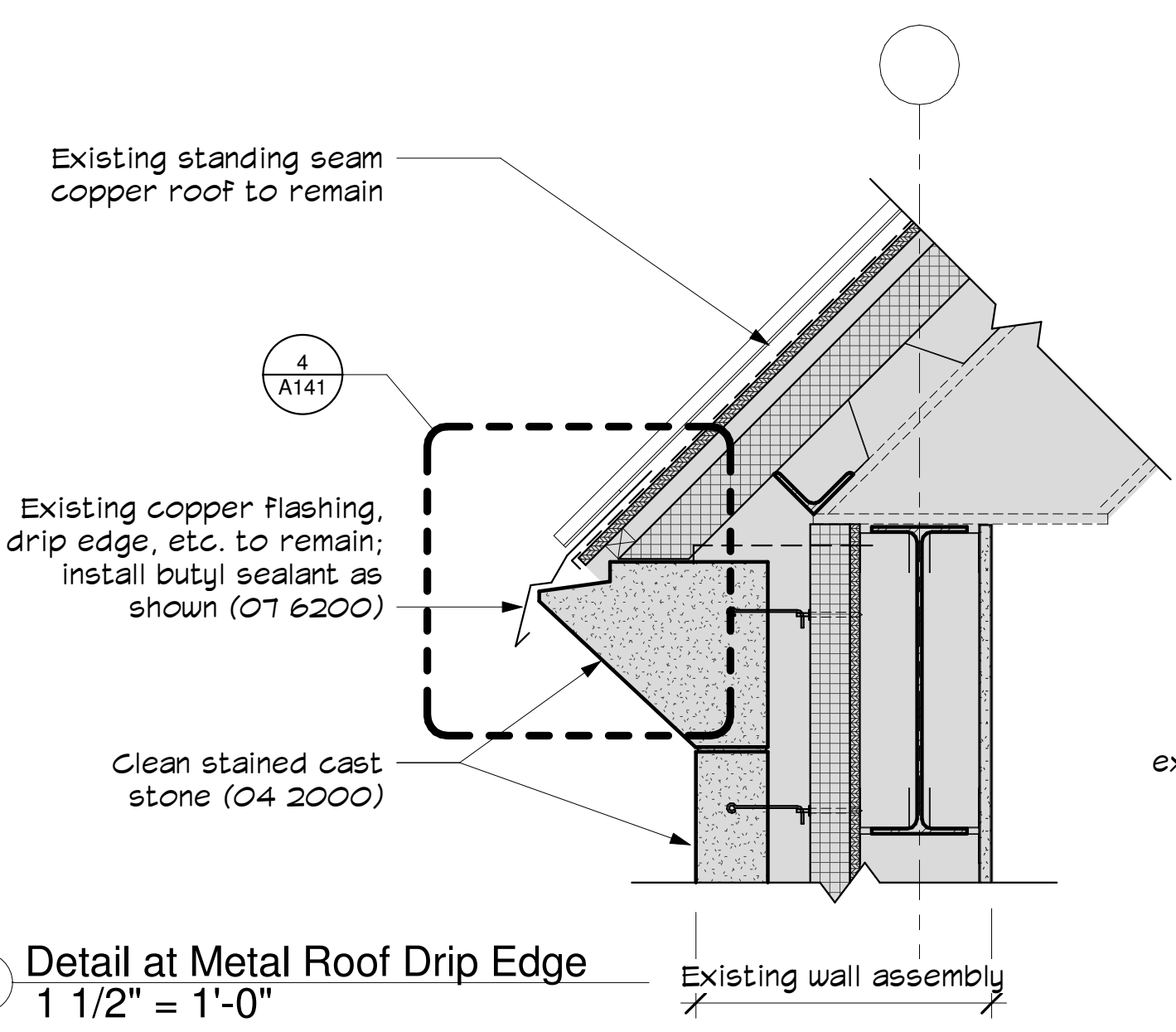
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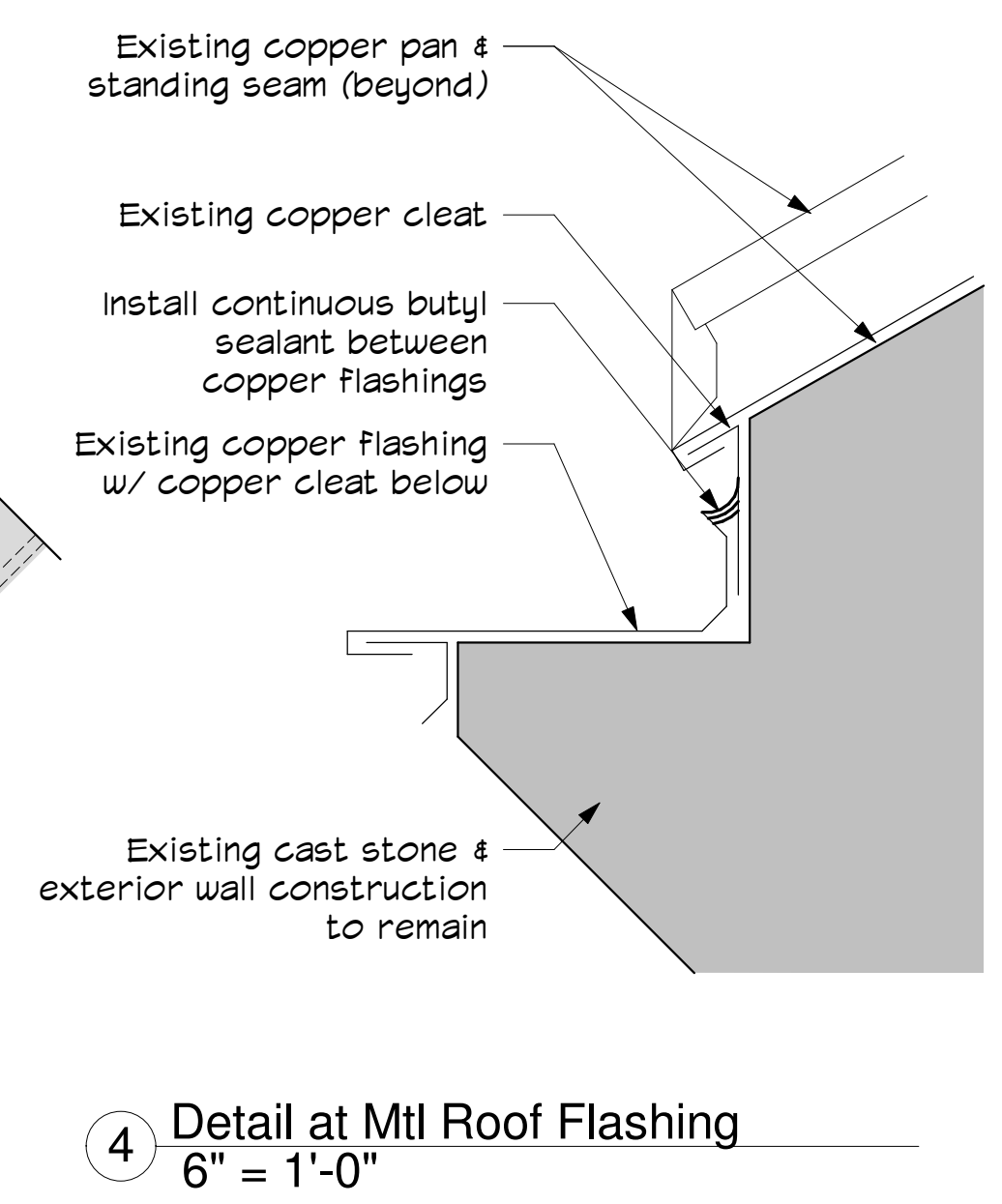
② Detail at Eave and Gutter
1 1/2" = 1'-0"

- Typical Exterior Detail Notes**
1. Light Gray "poche" indicates existing construction to remain, unless noted specifically otherwise.
 2. Paint coating shall extend from room corner to room corner, and from floor to 12" above finish ceiling (OT 9123.)
 3. For replacement of interior gypsum wallboard see detail 2 on A122.
 4. Provide backer rod and sealant at dissimilar material intersections to maintain weathertight building envelope (OT 9200.)
 5. Installed interior wood trim to match existing.

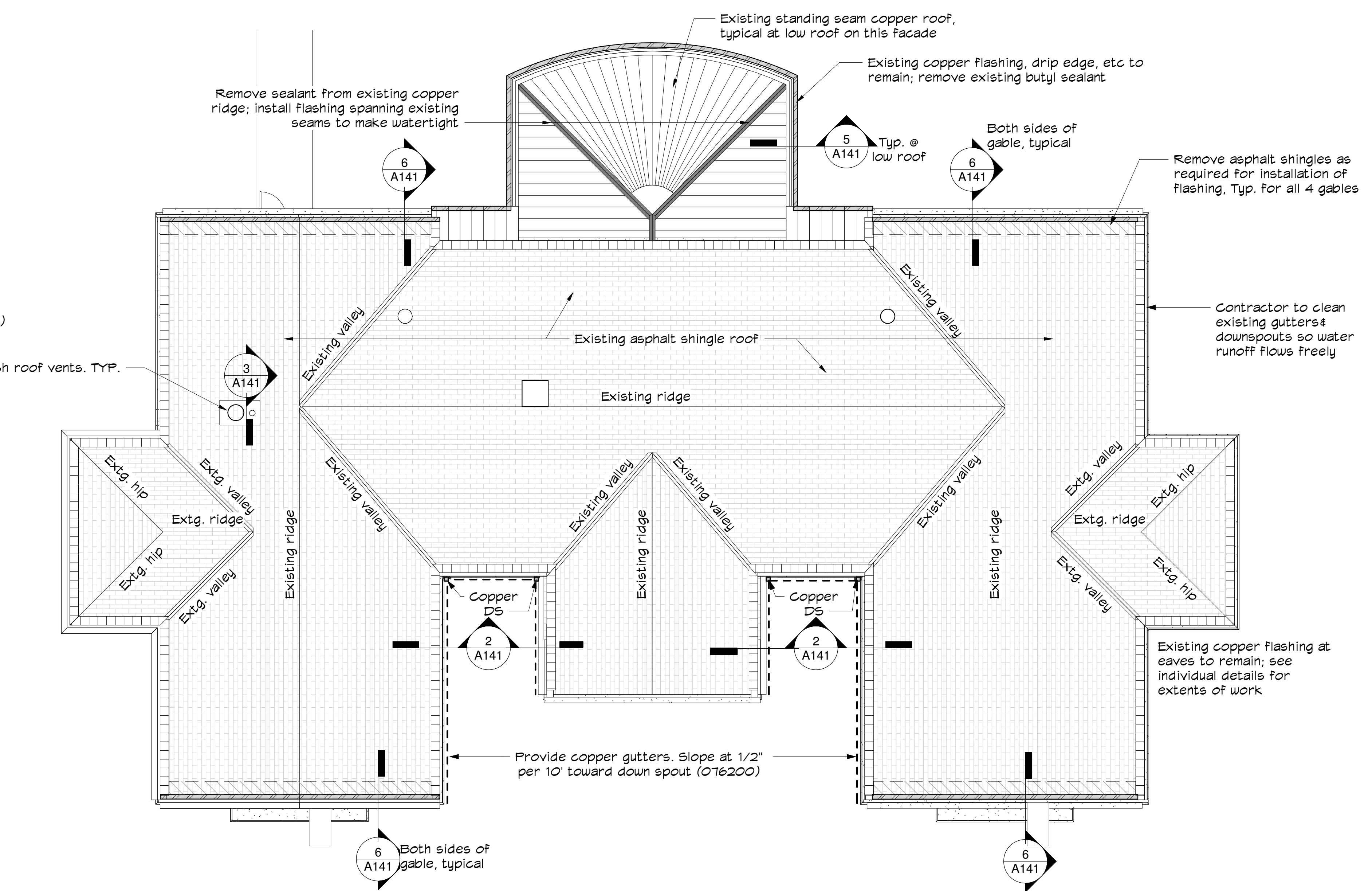
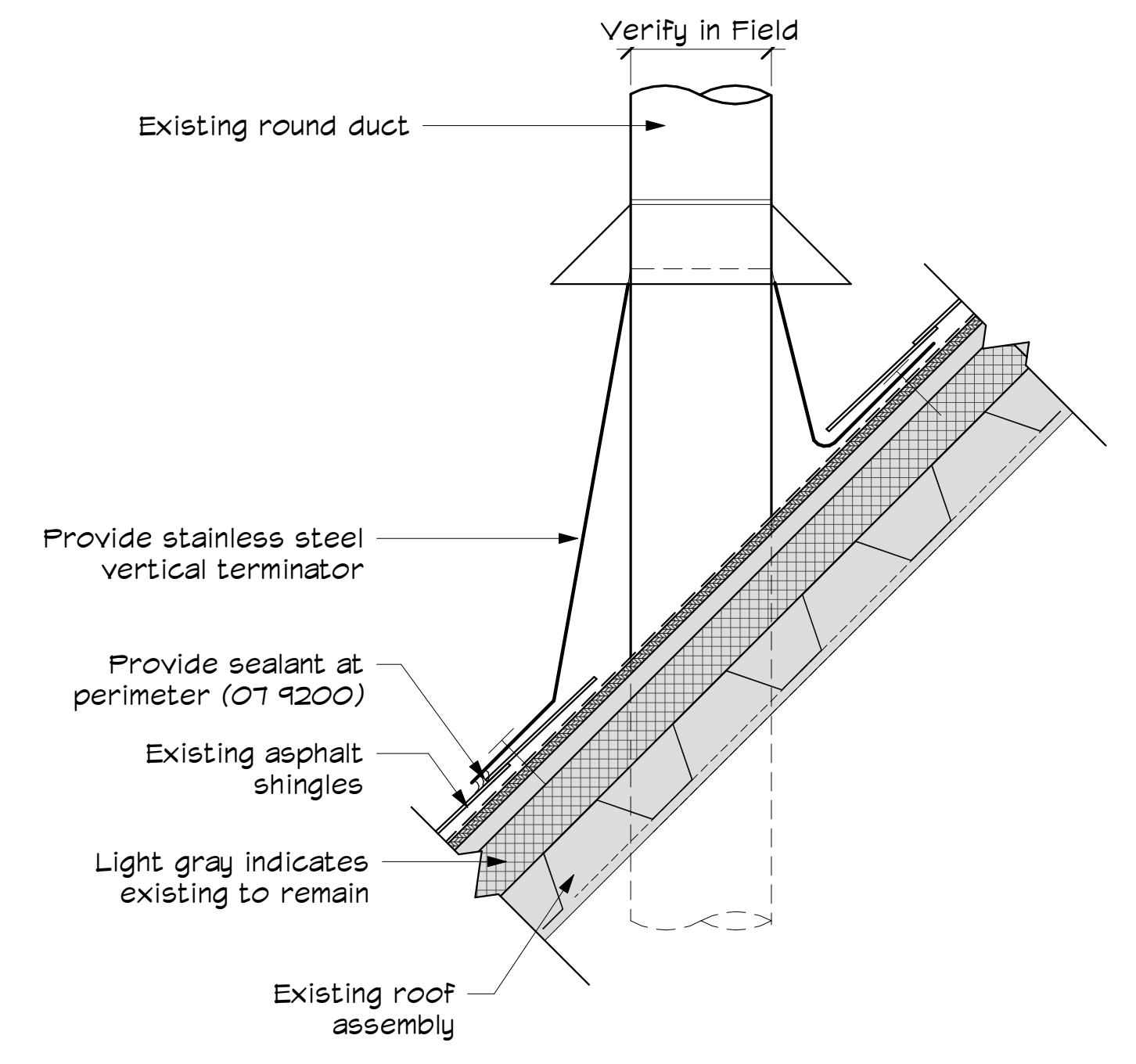
⑤ Detail at Metal Roof Drip Edge
1 1/2" = 1'-0"



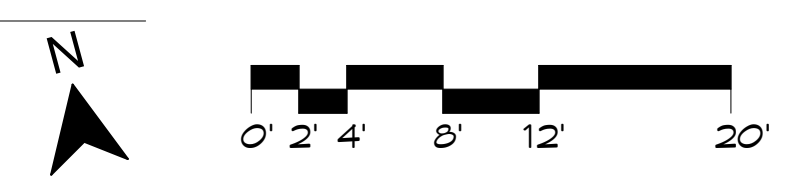
④ Detail at Mtl Roof Flashing
6" = 1'-0"



③ Detail at Roof Duct Penetration Flashing Detail
1 1/2" = 1'-0"



① Roof Plan
1/8" = 1'-0"



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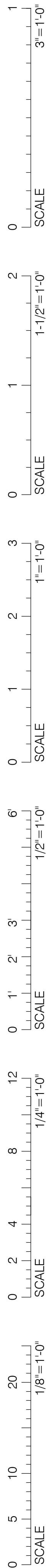
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Drawn by: RK
Check by: IB
Date: 7/15/2020
Scale: As indicated

Roof Plan & Details

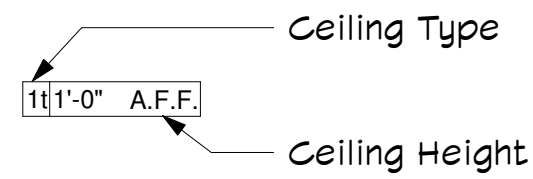
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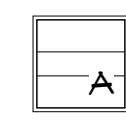


Ceiling Legend

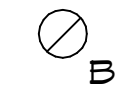


If room has a ceiling tag, it indicates provide ceiling. If room does not have a ceiling tag, it indicates existing ceiling to remain.

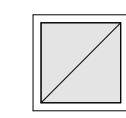
If the height is listed as "Existing", it indicates the new ceiling should be at the same height as the existing ceiling.



2 x 2 Direct/indirect lay-in fixture - see electrical drawings



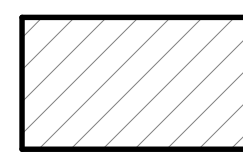
6" Recessed LED Can - see electrical drawings



FCU Indoor Units. See HVAC Drawings



Sprinkler head. See Fire Protections drawings



Remove, salvage, and reinstall ceiling tiles (095123) to provide access for eave insulation installation (072100)



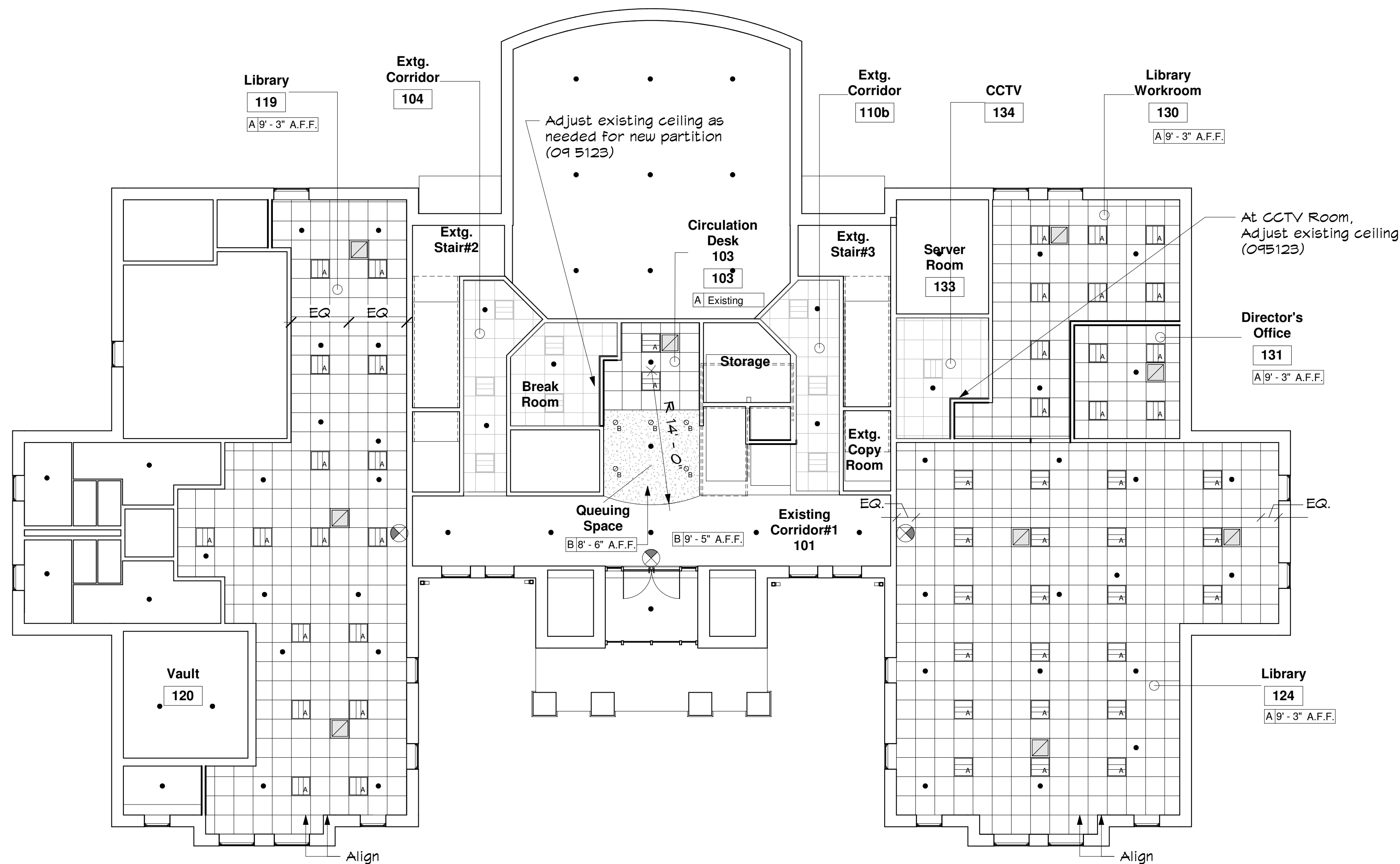
Ceiling to be removed, salvaged, and reinstalled to allow for access to roof eave work (095123)

Type Legend

A. 24" x 24" Suspended acoustical tile ceiling and grid

B. GNB on suspended system

Note:
For existing ceiling tiles at second floor, GC shall assume replacement of 10% of existing tiles affected by the work of this project due to damage during construction.



1 First Floor Reflected Ceiling Plan
1/8" = 1'-0"



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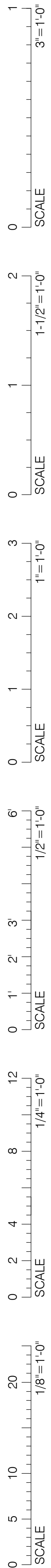
Project: 699.1
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First Floor
Reflected
Ceiling Plan

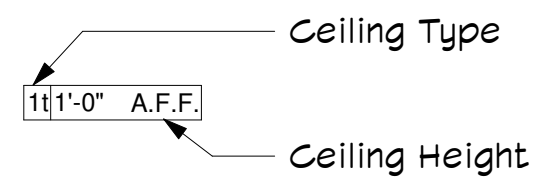
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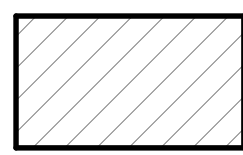
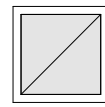
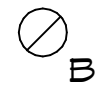
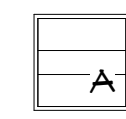


Ceiling Legend



If room has a ceiling tag, it indicates provide ceiling. If room does not have a ceiling tag, it indicates existing ceiling to remain.

If the height is listed as "Existing", it indicates the new ceiling should be at the same height as the existing ceiling.

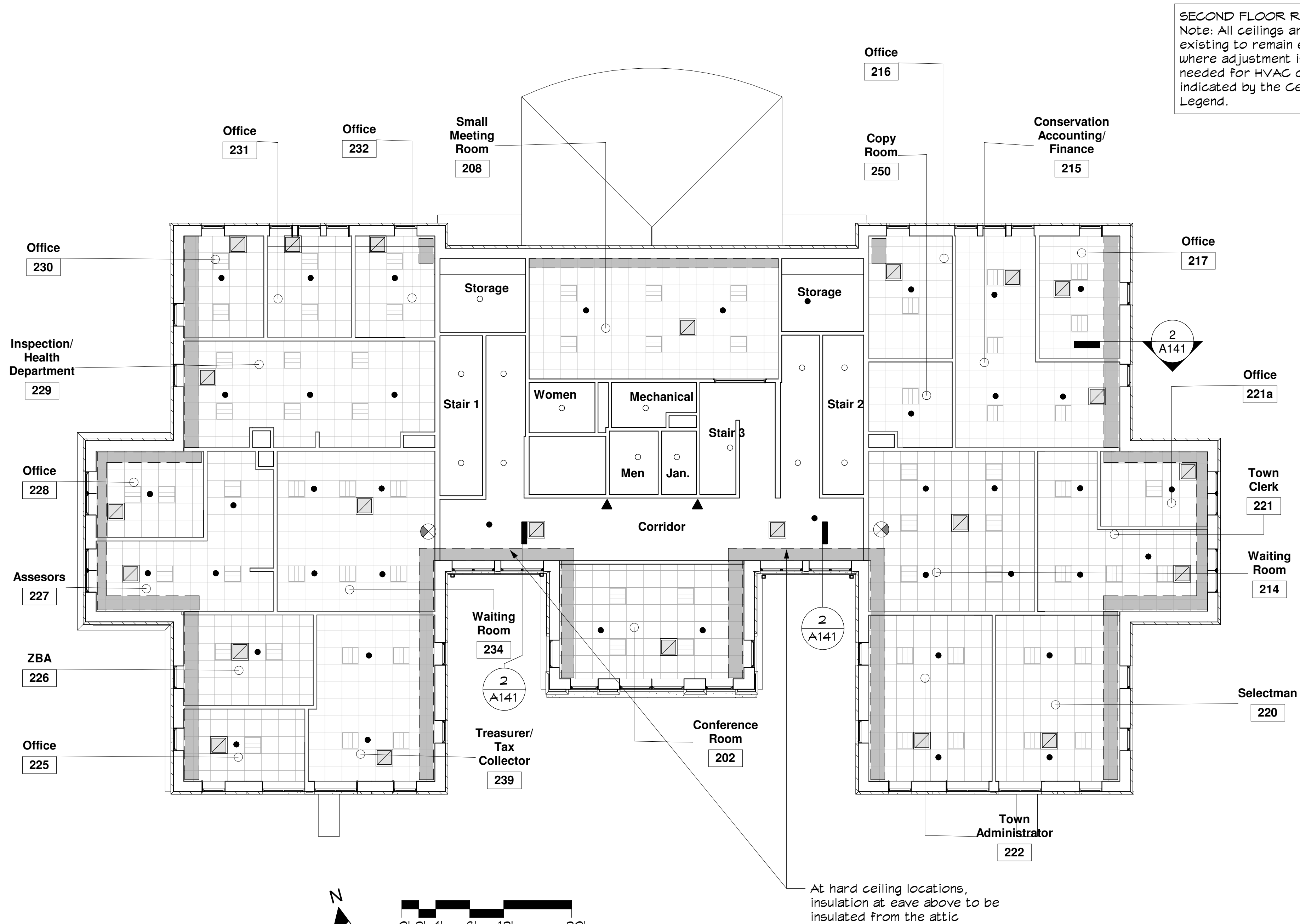


Type Legend

A. 24" x 24" Suspended acoustical tile ceiling and grid

B. GNB on suspended system

Note:
For existing ceiling tiles at second floor, GC shall assume replacement of 10% of existing tiles affected by the work of this project due to damage during construction.



① Second Floor Reflected Ceiling Plan
1/8" = 1'-0"



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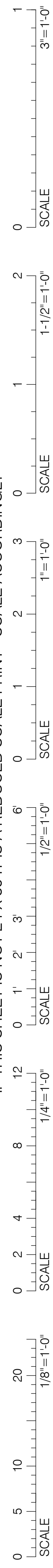
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Check by: IB
Date: 7/15/2020
Scale: As indicated

Second Floor
Reflected
Ceiling Plan

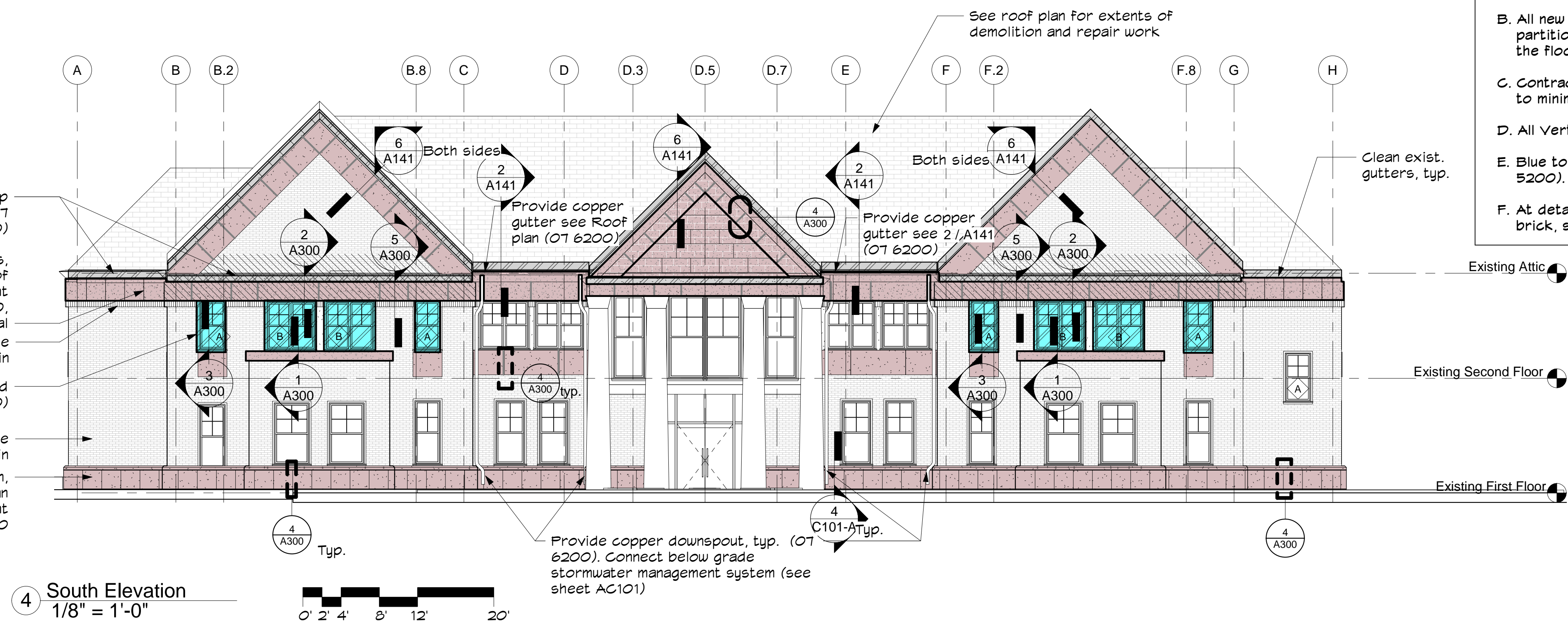
A152

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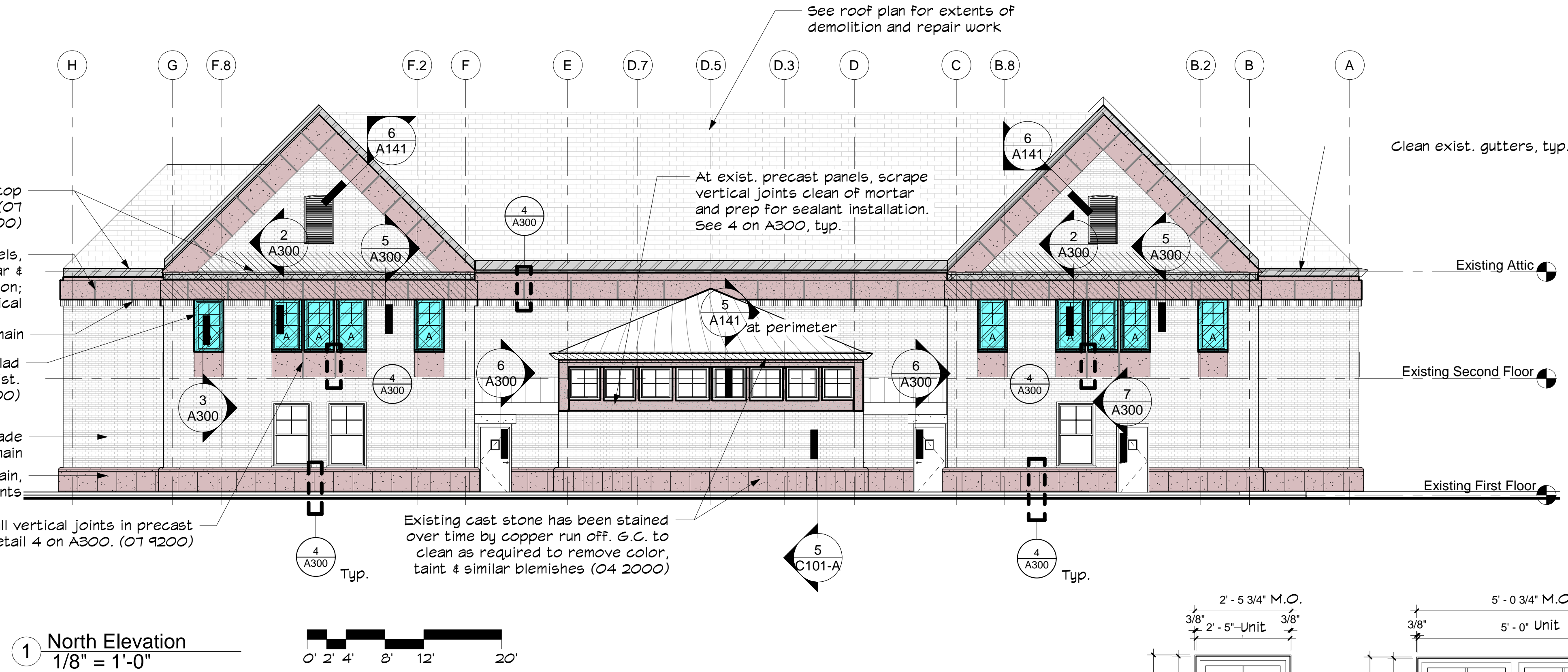


Typical Elevation Notes:
Provide copper flashing at top of precast concrete lintels. (07 6200)
At existing precast panels, scrape vertical joints clean of mortar & prep for sealant installation; see 4A on A300, typical
Existing brick soldier course to remain
Provide double-hung clad wood windows in exist. openings (08 5200)
Existing veneer brick facade to remain
Existing stone base to remain, scrape all vertical joints and clean of mortar and prep for sealant installation. See 4 on A300



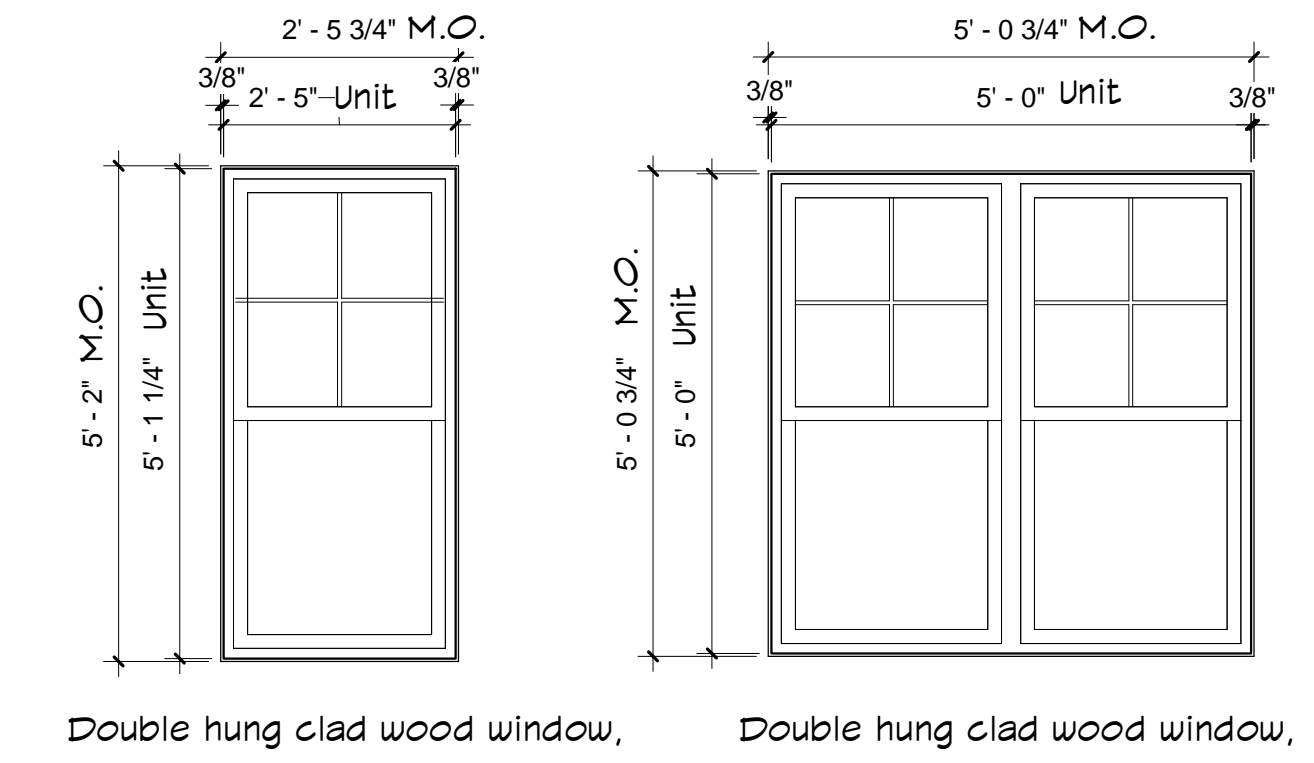
4 South Elevation
1/8" = 1'-0"

Typical Elevation Notes:
Provide copper flashing at top of precast concrete lintels. (07 6200)
At existing precast panels, scrape joints clean of mortar & prep for sealant installation; see 4 on A300, typical
Existing brick soldier course to remain
Provide double-hung clad wood windows in exist. openings (08 5200)
Existing veneer brick facade to remain
Existing stone base to remain, Scrape all joints
Provide sealant at all vertical joints in precast stone. See detail 4 on A300. (07 9200)

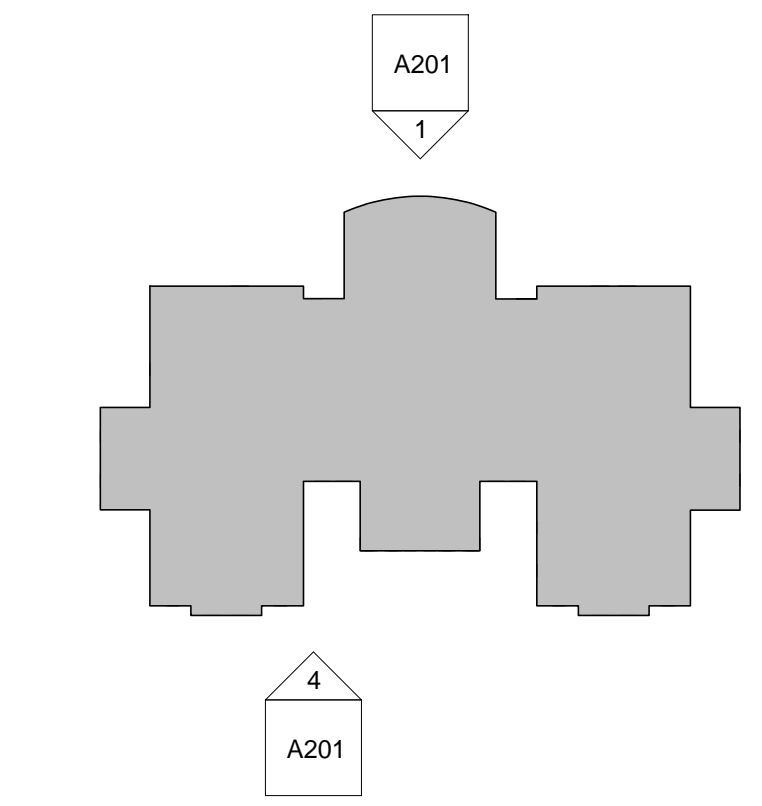


1 North Elevation
1/8" = 1'-0"

Typical Window Notes:
1. Provide windows to match existing exterior cladding type and color. Also match interior wood species, stain and finish. Hardware to match exist. type and finish
2. Field verify size of existing masonry openings, taking into account backer rod, sealant and full window perimeter.
3. Provide full size insect screens.



3 Window Types
1/2" = 1'-0"



A Key Plan

General Elevation Notes

- A. All exterior masonry, precast concrete, etc. to be cleaned. Keep masonry cleaned during renovations (04 2000).
- B. All new partitions, resurfaced partitions, and patched/repaired partitions to be painted from room corner to room corner, and from the floor to 12" above ceilings (09 9123).
- C. Contractor shall schedule window removal and replacement with owner to minimize the time where temporary protection is needed.
- D. All Vertical joints at precast panels to be caulked (07 9200). 4/A300
- E. Blue tone hatch indicates new double hung clad wood windows (08 5200). See window schedule.
- F. At detail 5/A300, G.C. to carefully & cleanly remove existing veneer brick, salvaging for reinstallation

Elevation Legend

- Salvage and reinstall existing pre-cast panels
- Existing pre-cast panels to remain in place; provide backer rod and sealant at all vertical joints; see note "D" and detail 4 on A300.
- Install windows in exist. masonry openings. See window types below.

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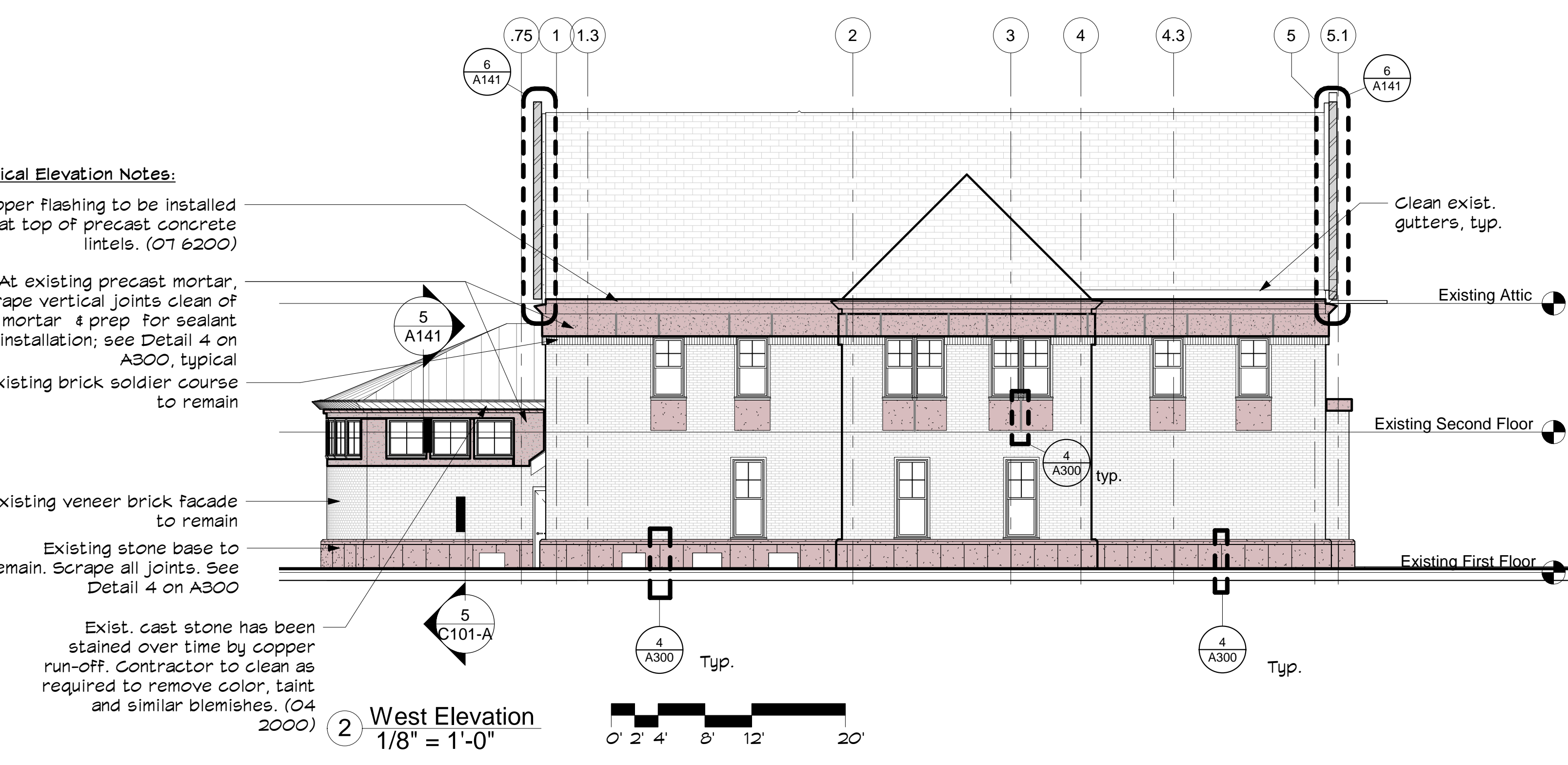
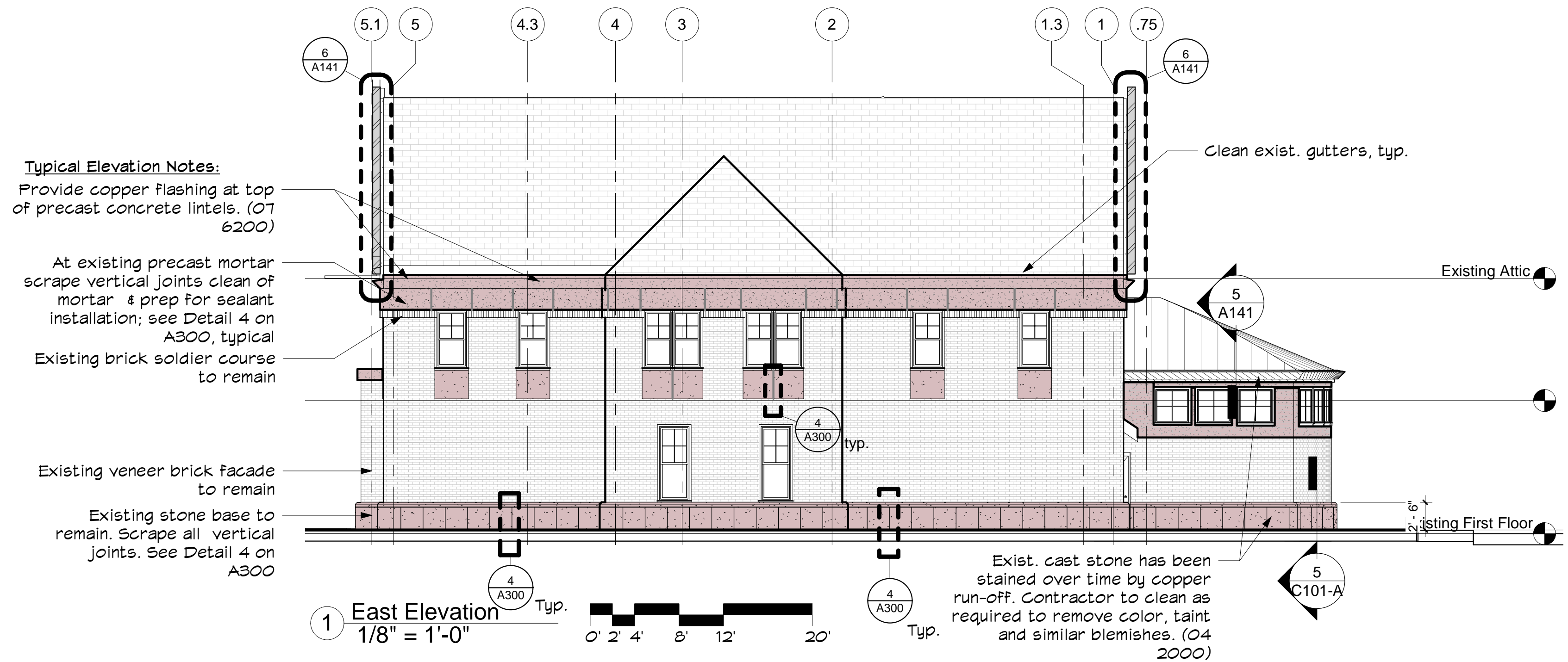
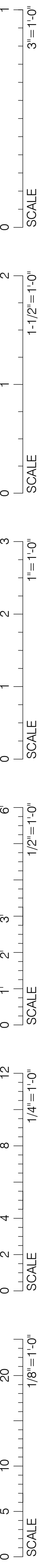
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Check by: IB
Date: 7/15/2020
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North and
South Elevation

A201

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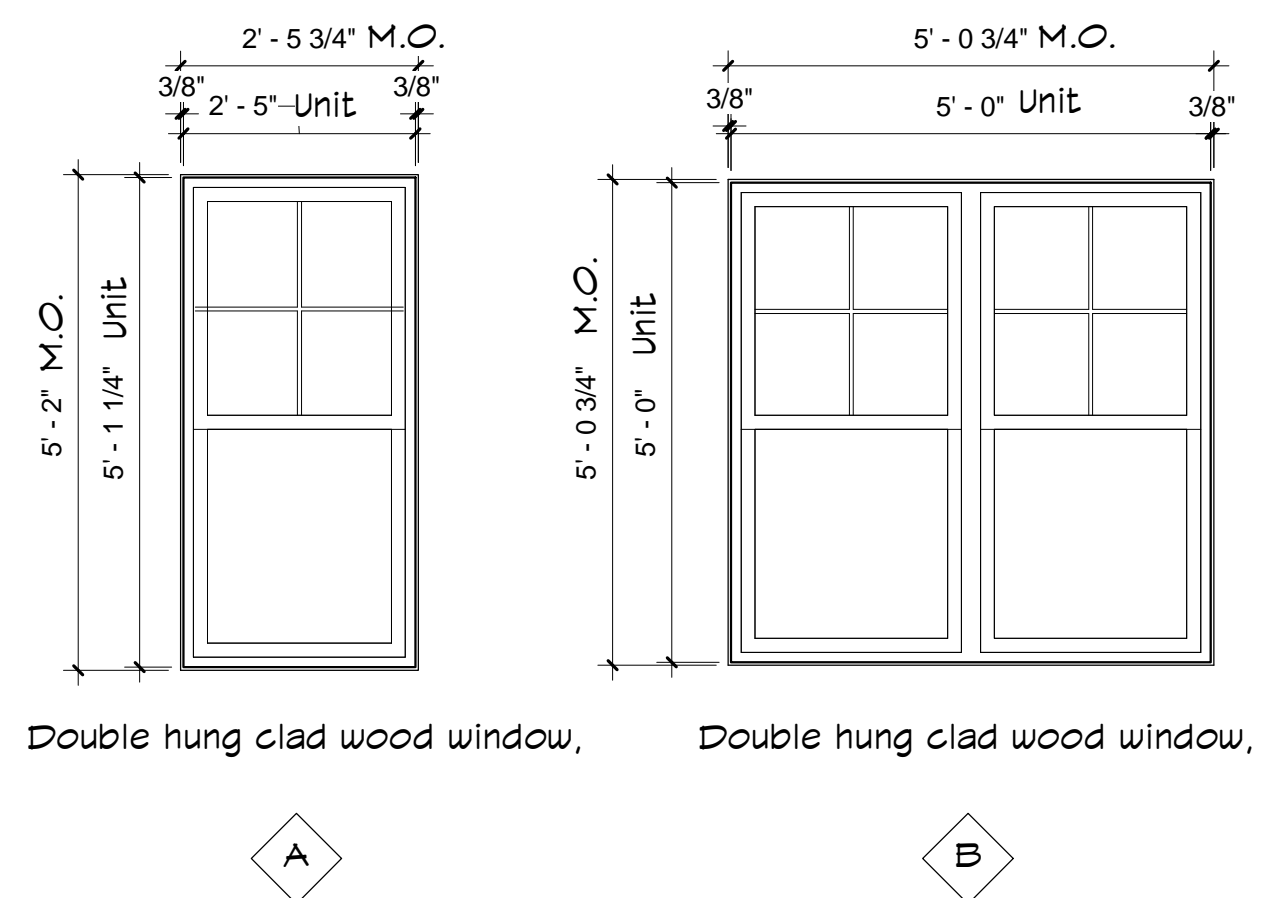


- General Elevation Notes**
- A. All exterior masonry, precast concrete, etc. to be cleaned. Keep masonry cleaned during renovations (04 2000).
 - B. All new partitions, resurfaced partitions, and patched/repaired partitions to be painted from room corner to room corner, and from the floor to 12" above ceilings (09 9123).
 - C. Contractor shall schedule window removal and replacement with owner to minimize the time where temporary protection is needed.
 - D. All Vertical joints at precast panels to be caulked (07 9200). 4/A300
 - E. Blue tone hatch indicates new double hung clad wood windows (08 5200). See window schedule.
 - F. At detail 5/A300, G.C. to carefully & cleanly remove existing veneer brick, salvaging for reinstallation

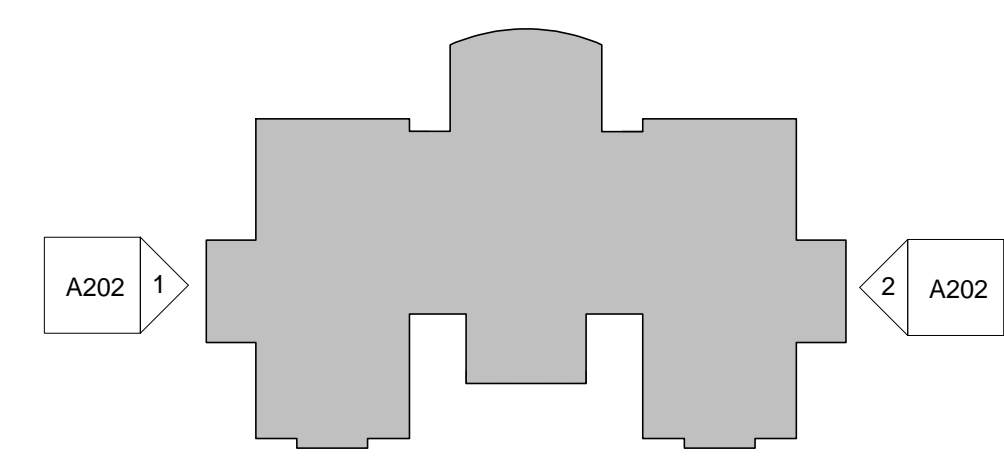
Elevation Legend

- Salvage and reinstall existing pre-cast panels
- Existing pre-cast panels to remain in place; provide backer rod and sealant at all vertical joints; see note "D" and detail 4 on A300.

Install windows in exist. masonry openings. See window types below.



- Window Types**
1/2" = 1'-0"
- Typical Window Notes:**
- Provide windows to match existing exterior cladding type and color. Also match interior wood species, stain and finish. Hardware to match exist. type and finish
 - Field verify size of existing masonry openings, taking into account backer rod, sealant and full window perimeter.
 - Provide full size insect screens.



Key Plan

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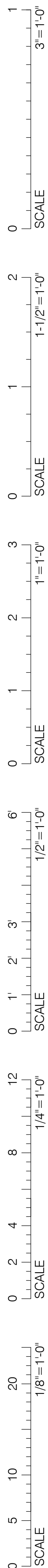
Project: 699.1
Drawn by: RK
Check by: IB
Date: 7/15/2020
Scale: As indicated

East and West Elevation

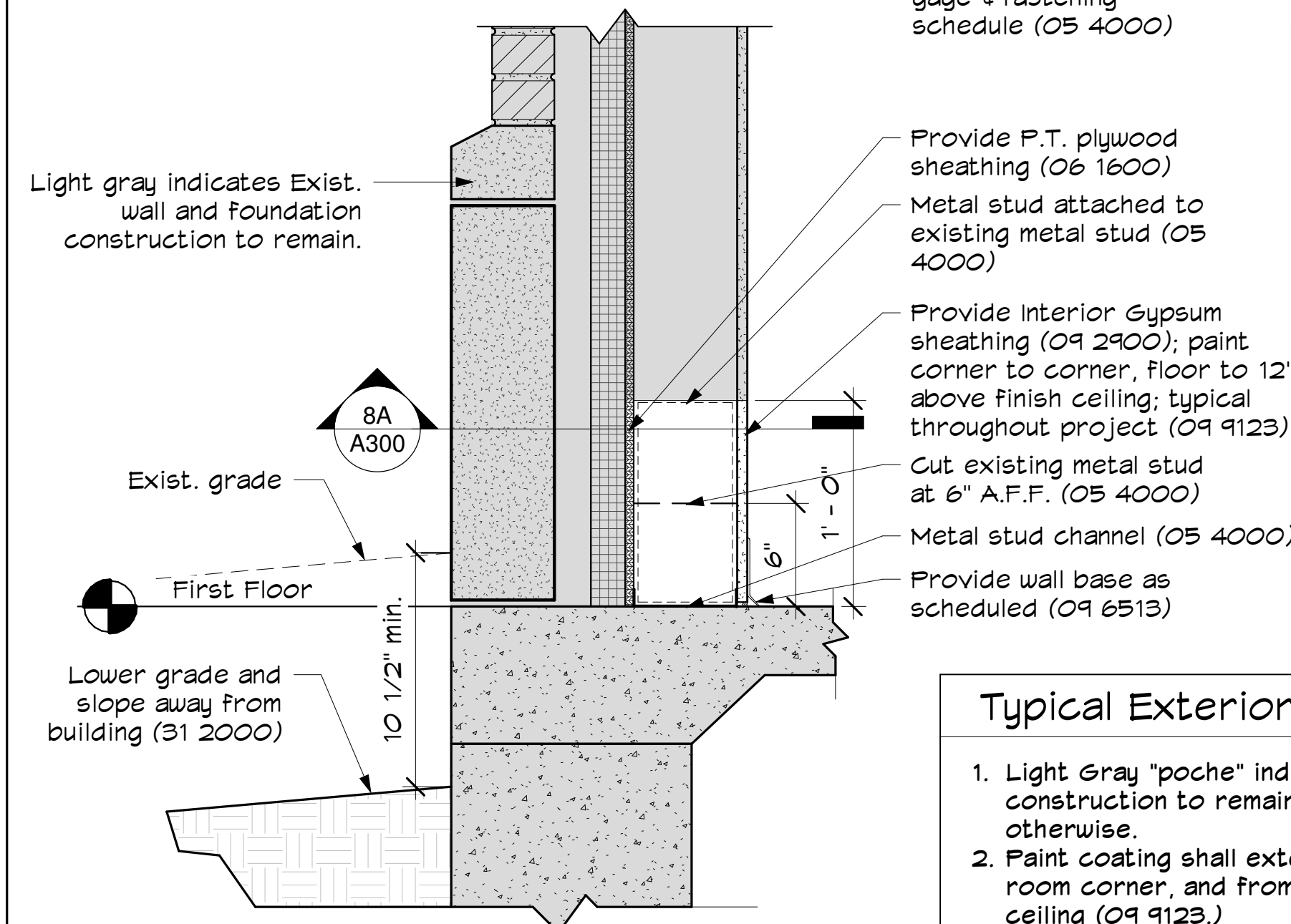
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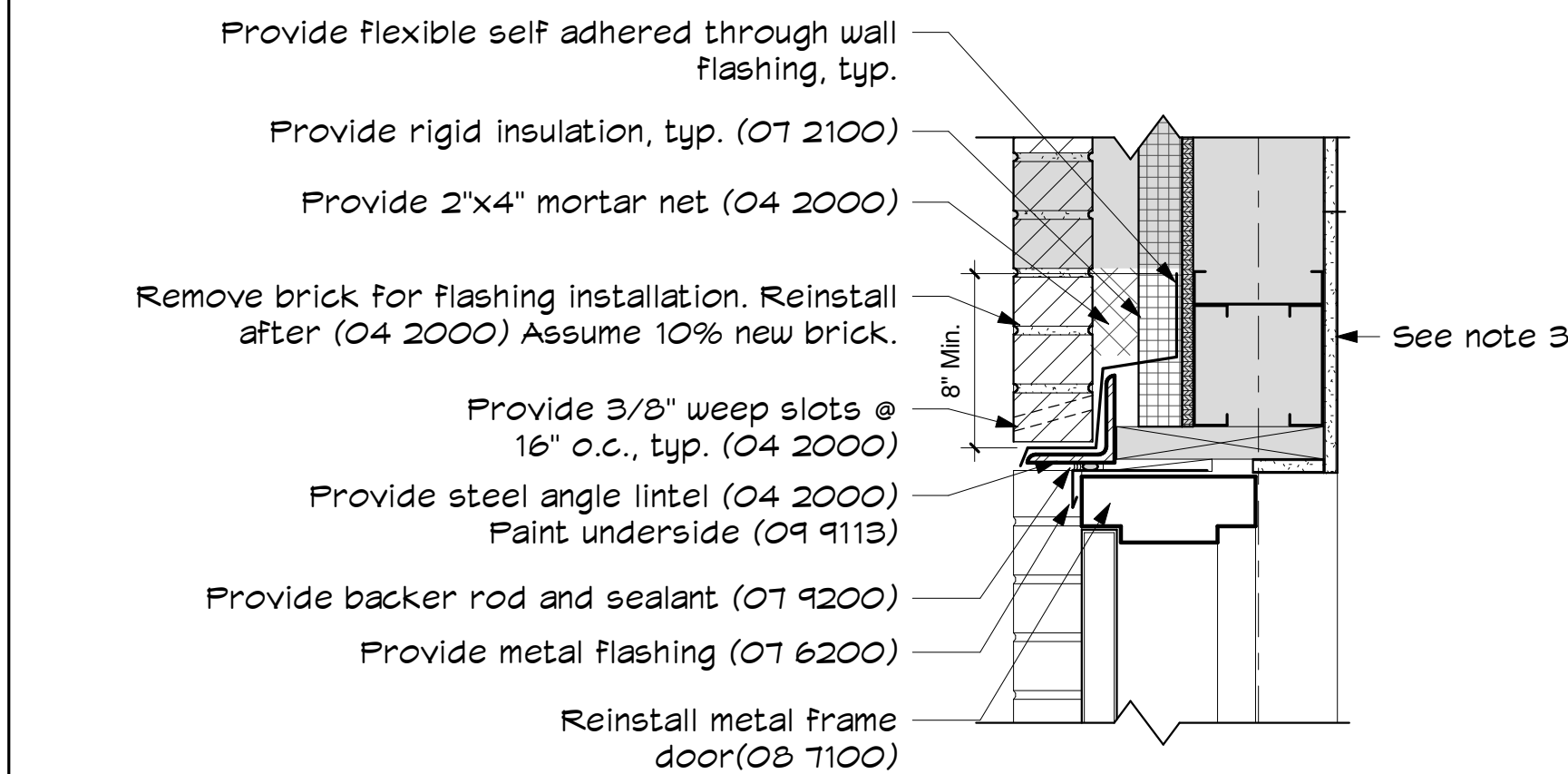
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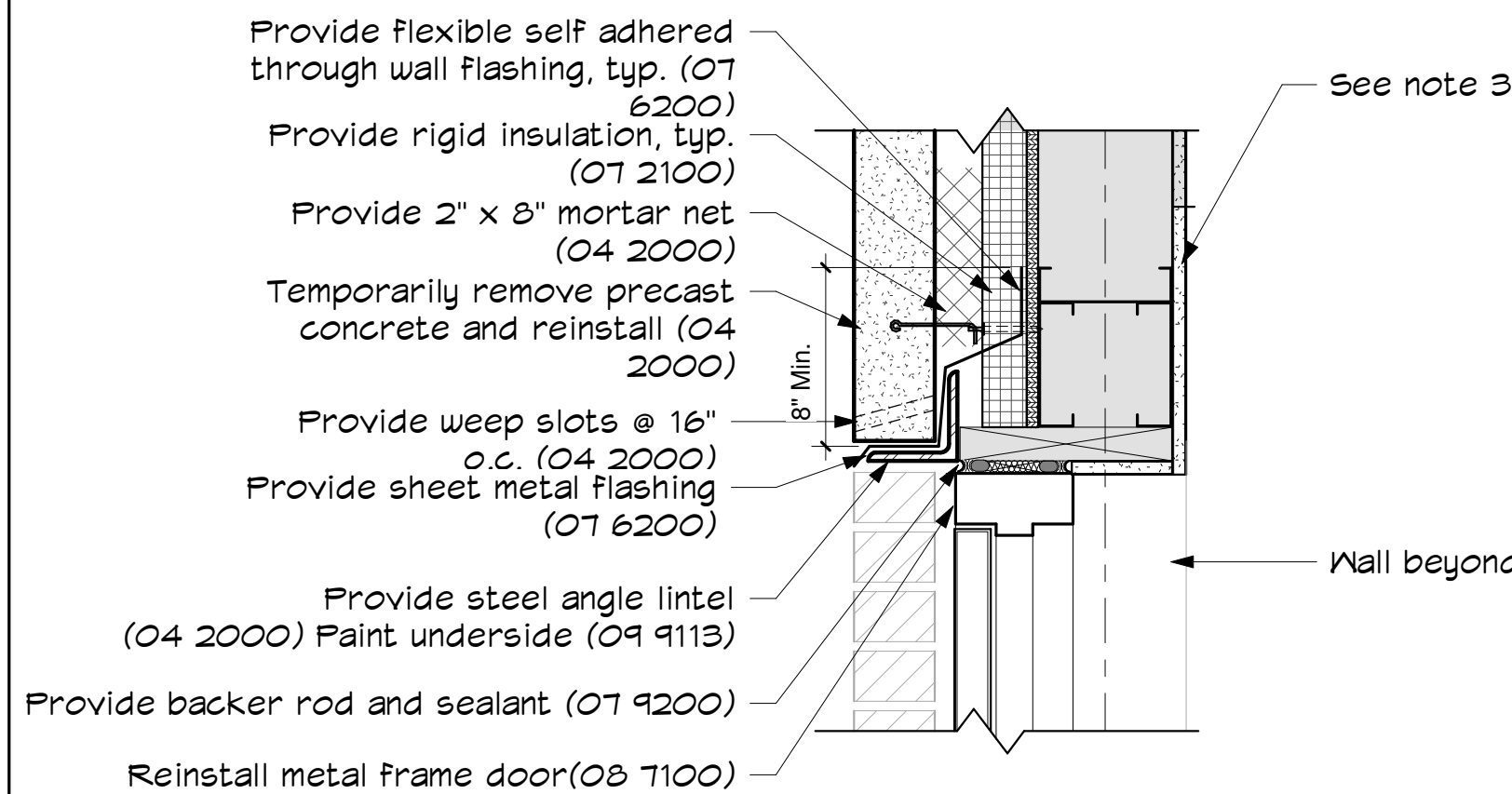
8A Plan View
1 1/2" = 1'-0"



8 Detail at Replacement Metal Stud Wall
1 1/2" = 1'-0"



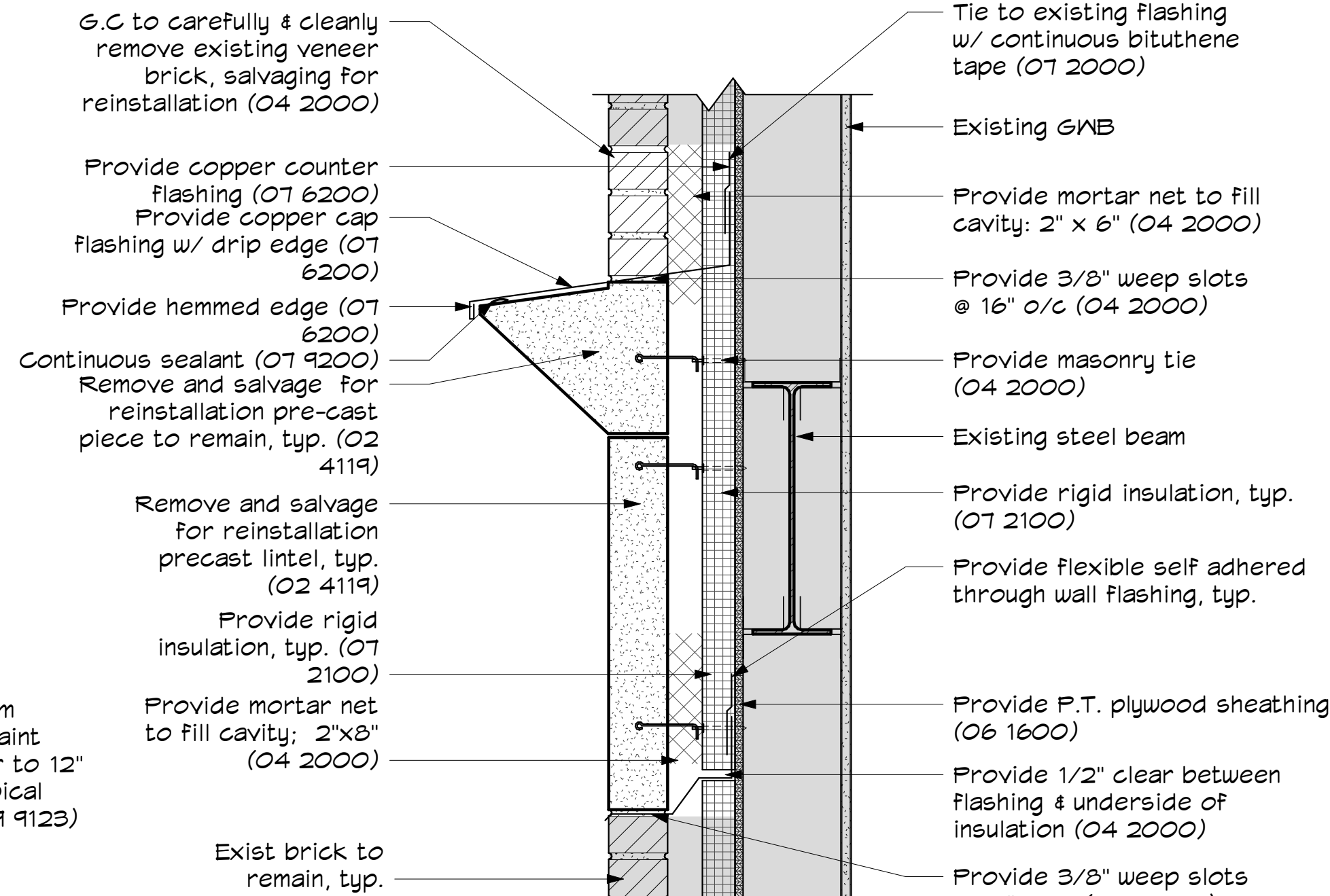
7 Detail at Exterior Door Head
1 1/2" = 1'-0"



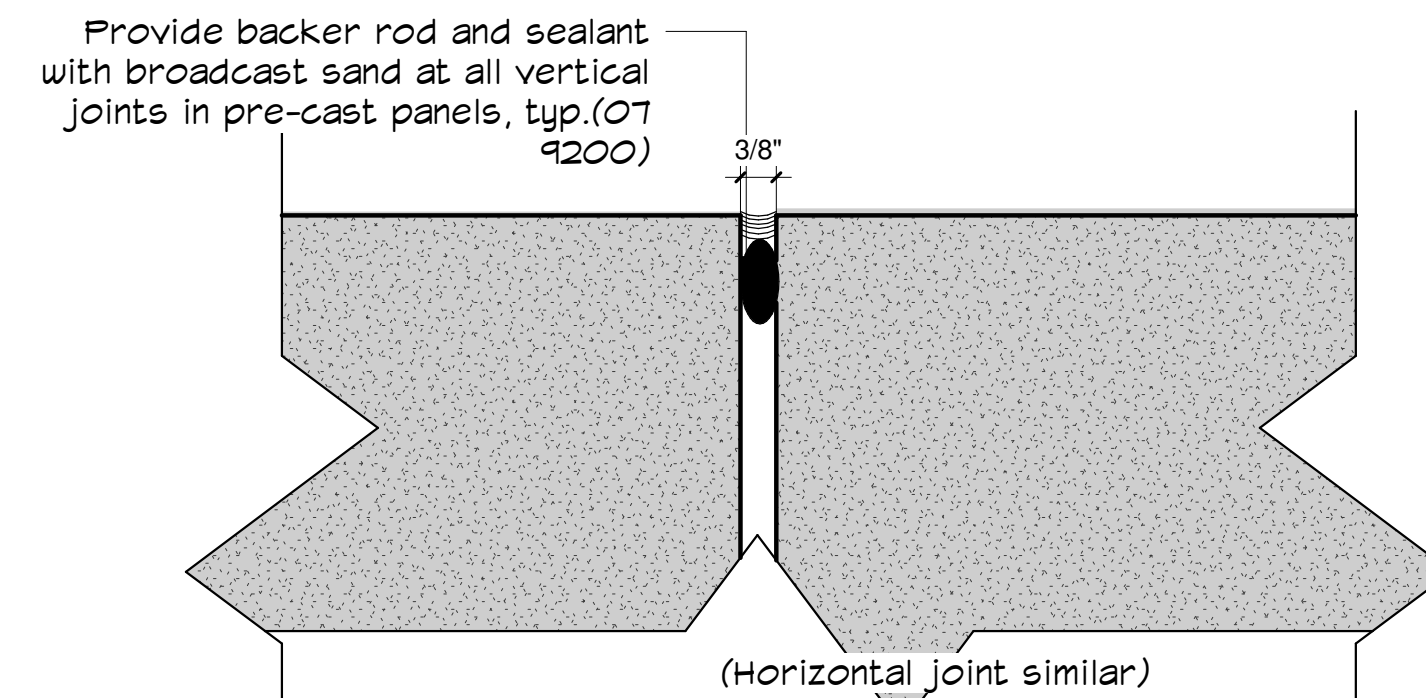
6 Detail at Exterior Door Head- Precast
1 1/2" = 1'-0"

Typical Exterior Detail Notes

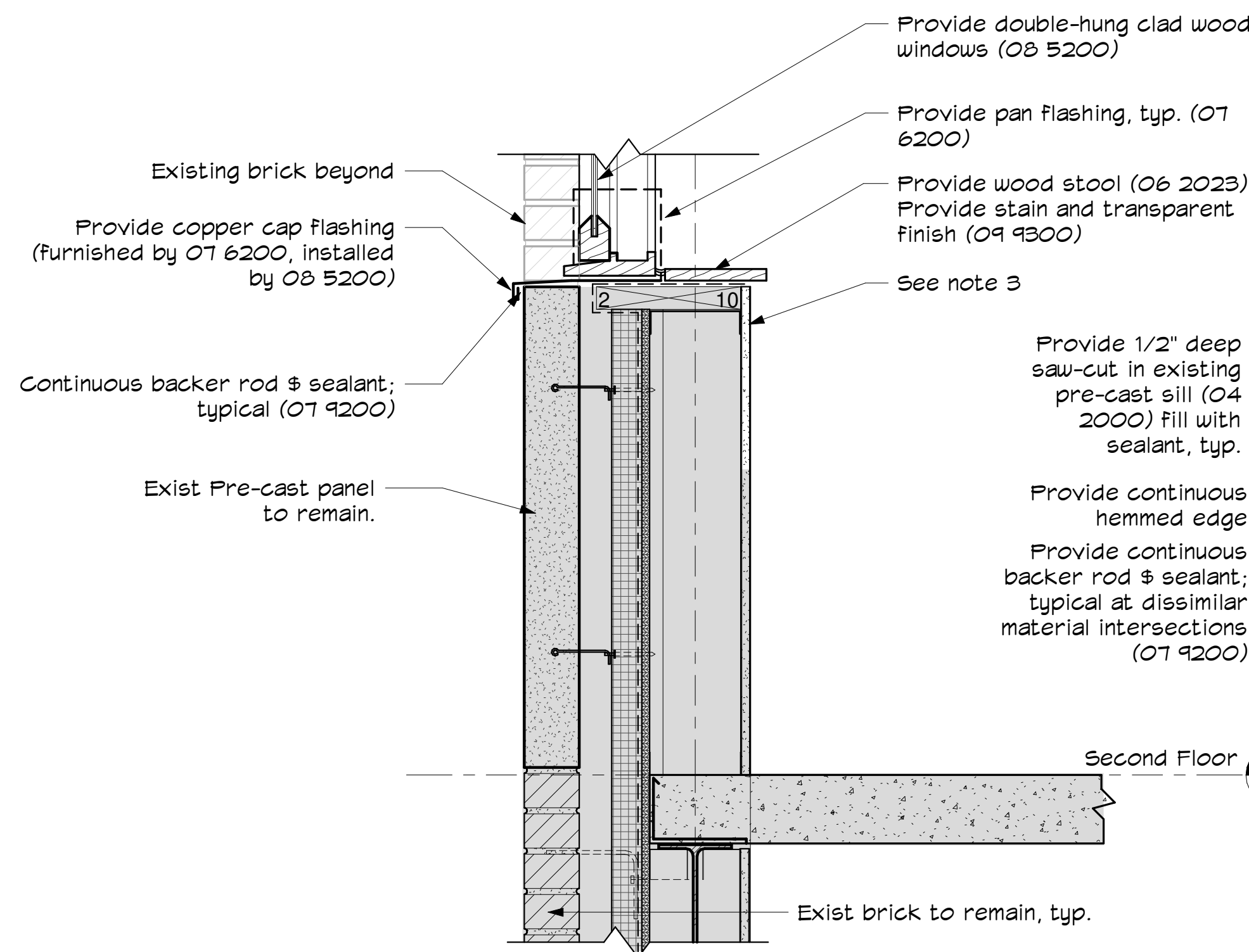
1. Light Gray "poche" indicates existing construction to remain, unless noted specifically otherwise.
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3. For replacement of interior gypsum wallboard see detail 2 on A122.
4. Provide backer rod and sealant at dissimilar material intersections to maintain weathertight building envelope (07 9200.)
5. Installed interior wood trim to match existing.



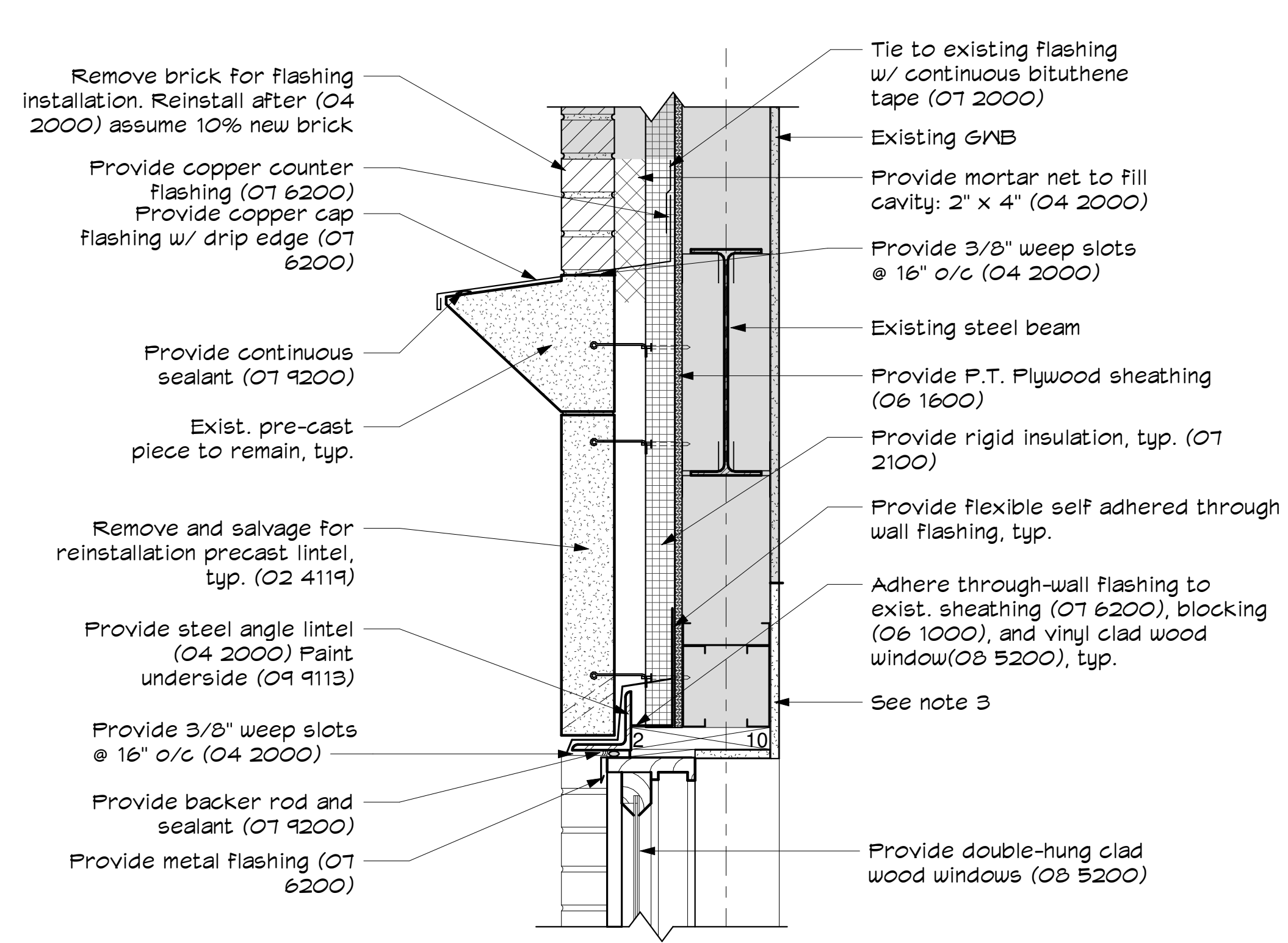
5 Detail at Cornice
1 1/2" = 1'-0"



4 Vertical Joint Detail
6" = 1'-0"



3 Detail at Window Sill
1 1/2" = 1'-0"

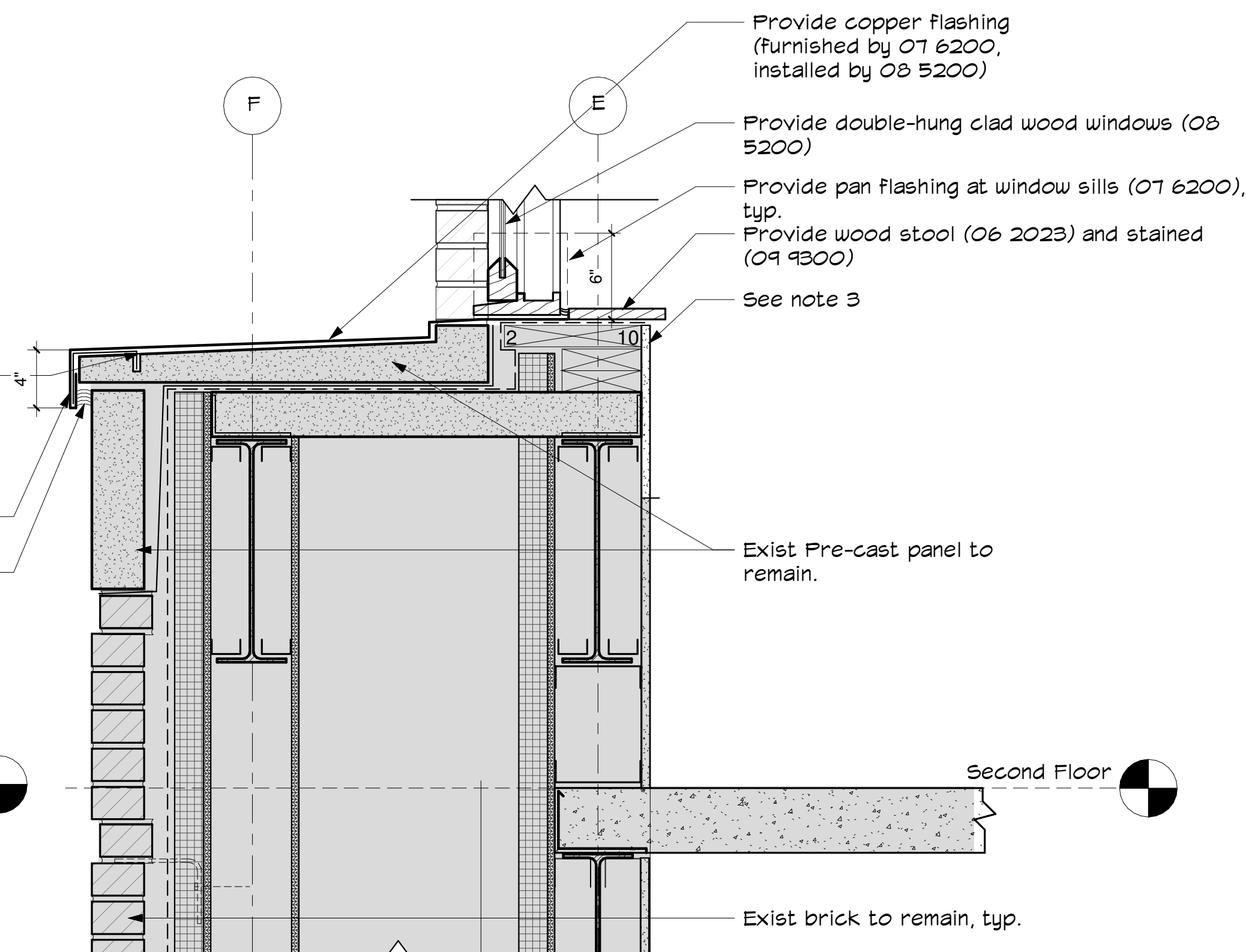


2 Detail at Cornice and Window Head
1 1/2" = 1'-0"

Lintel Schedule

MASONRY OPENING	LINTEL SIZE
UP TO 3'-0"	L 3 1/2" X 3 1/2" X 5/16"
3'-1" TO 4'-6"	L 4" X 3 1/2" X 5/16" (4" leg vertical)
4'-7" TO 6'-0"	L 5" X 3 1/2" X 5/16" (5" leg vertical)
6'-1" TO 8'-0"	L 6" X 3 1/2" X 5/16" (6" leg vertical)

1. Provide metal lintels over all openings except where lintel blocks are provided and except where called for in the drawings.
2. Provide one angle for each 4" of wall thickness. For 6" walls, provide tee or built-up section with properties equal to or greater than 1 1/2 times the angle properties for a 4" wall thickness.
3. Provide 8" of bearing each end of all lintels.
4. Lintels shall be galvanized.



1 Detail at Window Sill Above Precast Concrete Projected Bay
1 1/2" = 1'-0"

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Exterior
Building Details

A300

Match existing wood wall —
base, wood trim and wall rail
throughout lobby (06 2023)

⑤ Existing Entry Lobby
1/2" = 1'-0"

④ Existing Break Room #107
1/2" = 1'-0"

Remove and salvage
(2) 36" upper wall
cabinets for relocation to
library workroom.
see plan 1 / A111 (06 4113)

Remove and relocate electrical outlets - see electrical drawings (26 0001).

Plumbing lines to
kitchenette sink to be
relocated - see plumbing
drawings (22 0001).

Remove and salvage for relocation
base cabinets, countertop, and
backsplash (O6 4113) see 1 / A501

— Dashed line indicates existing plumbing line to be relocated.

- Remove and dispose 12" wall and base cabinet (O2 4119)

③ Elevation at Stairs Corridor
 $1/4" = 1'-0"$

Architectural elevation drawing of the Boxford Town Hall Library facade. The drawing shows a central entrance with a sign that reads "BOXFORD TOWN HALL" above the door and "LIBRARY" on the wall to the right. To the left of the entrance is an elevator labeled "Elev." with an arrow pointing left. To the right of the entrance is a set of stairs. The drawing includes several callouts with arrows pointing to specific areas, indicating proposed improvements:

- Provide wood paneling at accent wall to match existing (06 2023)
- Install salvaged signage in relocated location (10 1400)
- Provide GWB (09 2900, and Faint (09 9123)
- Open Beyond
- Provide signage (10 1400)
- 6 A502
- Sim
- Provide wood chair rail and wood base to match existing (06 2023)
- Provide wood bench (06 2023)
- Provide wood trim and base throughout reception area and desk to match existing u.n.c. (09 9123, 09 9300)

② Elevation at Lobby
 $\frac{1}{4}'' = 1'-0''$

This detailed floor plan illustrates the layout of the Existing Dining Area, including the Break Room, Circulation Desk 103, Queuing Space, and Existing Corridor #1. The plan includes various annotations for equipment, materials, and dimensions.

Break Room: Located on the left side, it features a relocated existing fridge to remain and salvaged base cabinets, countertop, and backslash (06 4113). Dimensions include 3'-3 1/2" and 6'-0".

Circulation Desk 103: A central area with a desk and various equipment. It includes a computer, pencil drawer, B/B/F, and a solid gray transaction counter (06 2023). Dimensions include 2'-11", 1'-3", and 1'-3".

Queuing Space: Located below the Circulation Desk, it features a solid gray transaction counter (06 2023) and a top @ 36" AFF. Dimensions include 1'-7" and 2'-0".

Existing Corridor #1 101: Located at the bottom, it includes a wood bench and a GNB soffit. Dimensions include 2'-0" and 1'-7".

Other Areas: The plan also shows a Storage area, a Relocated existing fridge to remain, and a Break Room. Various equipment and materials are indicated, including A601, A502, A501, and A500.

① Enlarged Plan at Lobby
1/2" = 1'-0"

1. See floor plan for patterns.
2. See ceiling plan for patterns.
3. In general, when a surface receives paint, it is intended to be from room corner to room corner.
4. If a room does not have a finish tag (as shown above) it indicates existing to remain unless noted otherwise.



Boxford Town Hall
HVAC, Exterior Repairs, Library
Renovations
7 Spofford Rd, Boxford, MA 01921

Plot Date: 7/15/2020 2:58:35 PM

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No.	Date	Description
A	7/15/2020	Bid Set

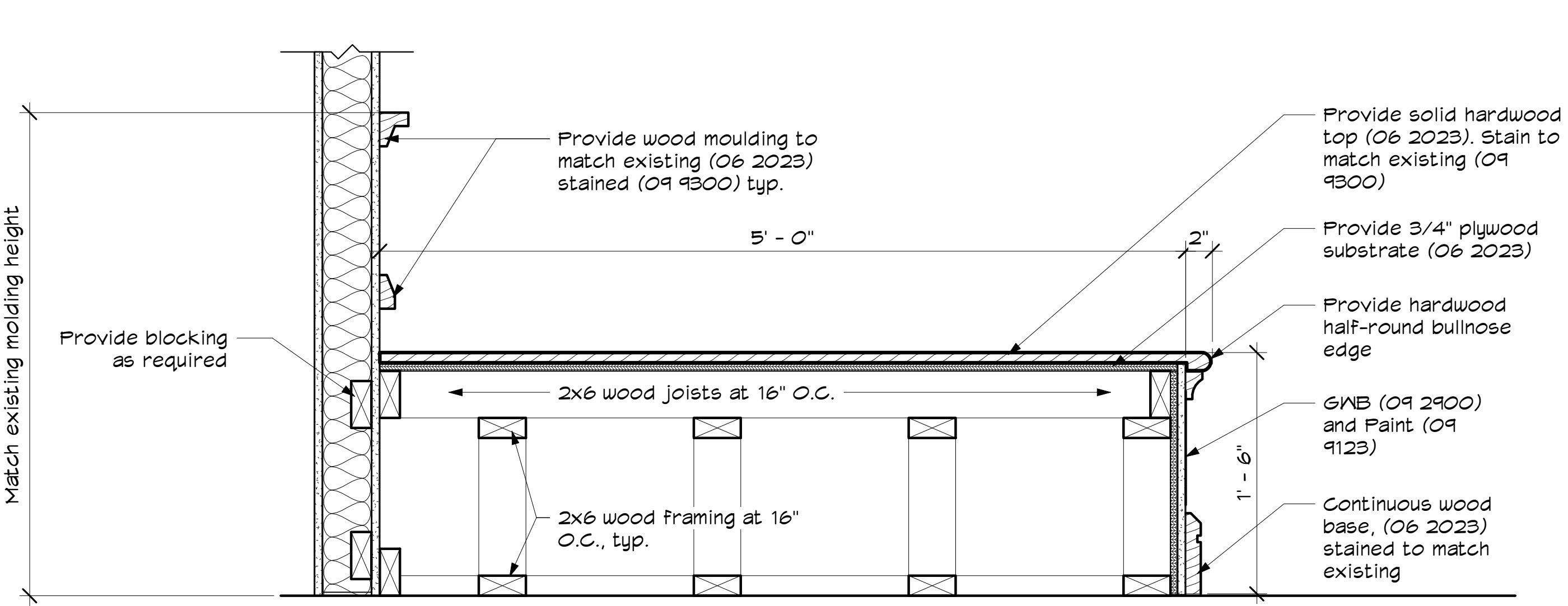
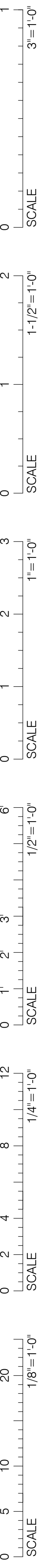
Project: 699.1
 Drawn by: RK
 Check by: IB
 Date: 7/15/2020
 Scale: As indicated

Interior
Elevations and
Enlarged Plans

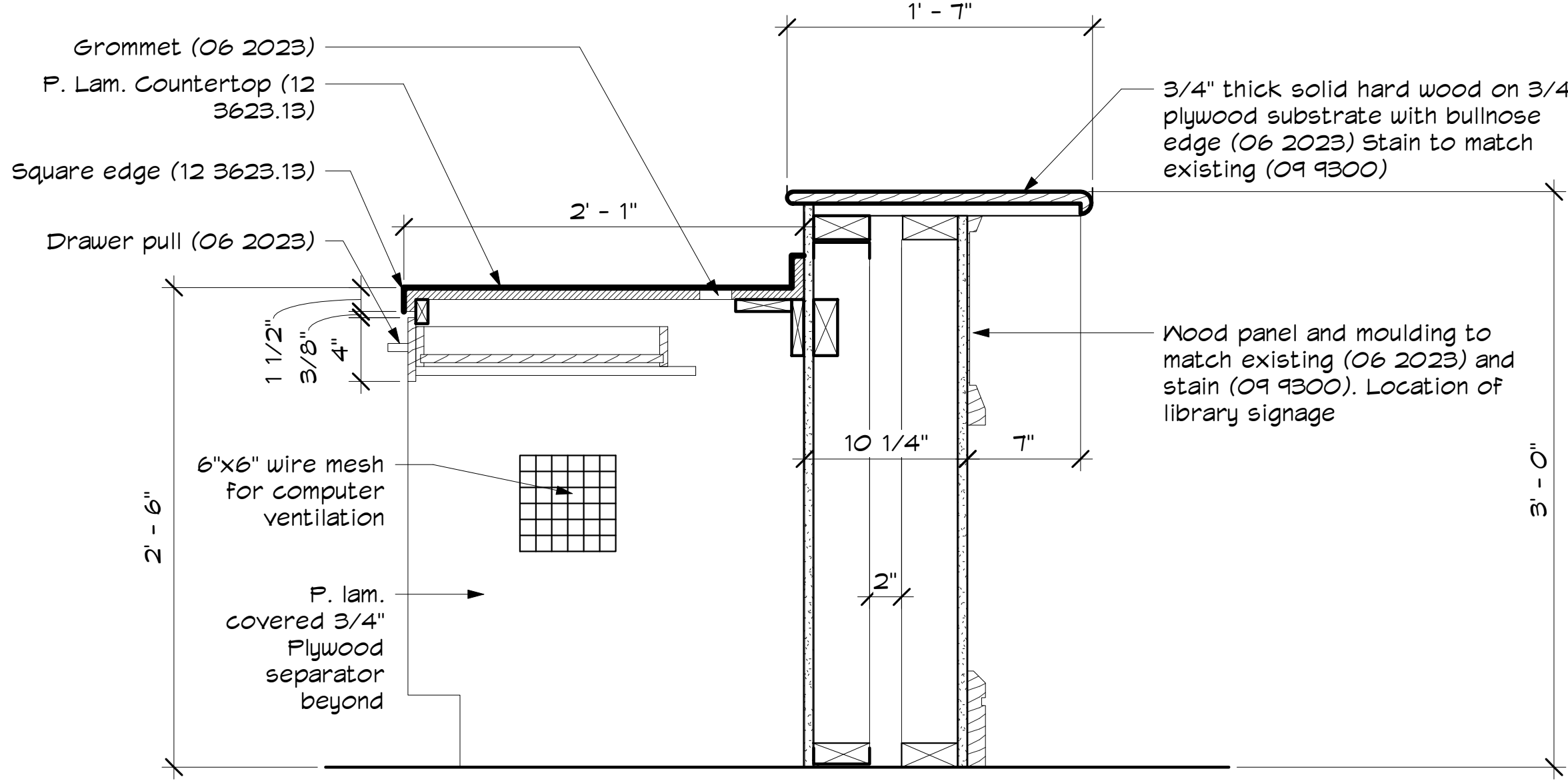
A501

U:\Bent Plans\6991 Boxford Town Hall Repairs 5-6-20\CENTRAL_gienapp\3\gienappdesign.com.rvt

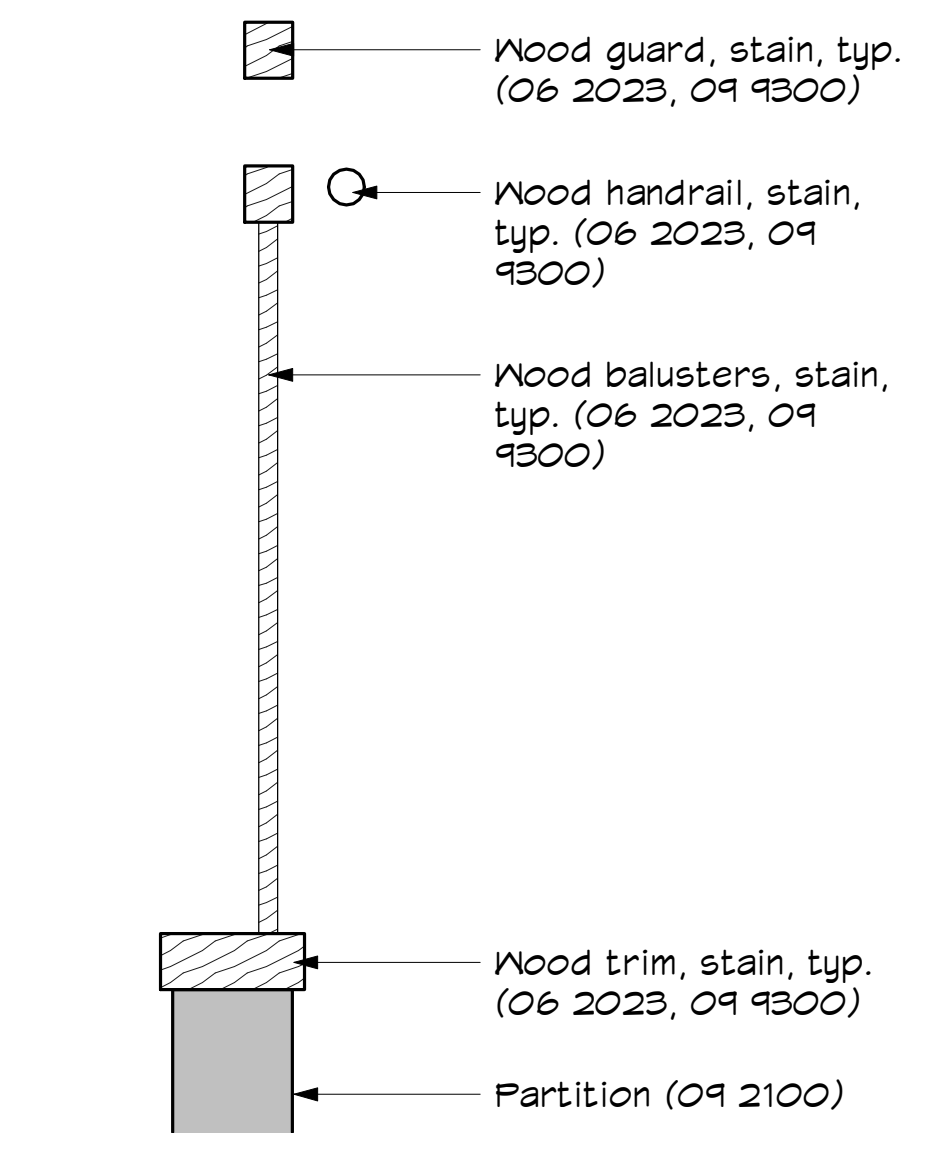
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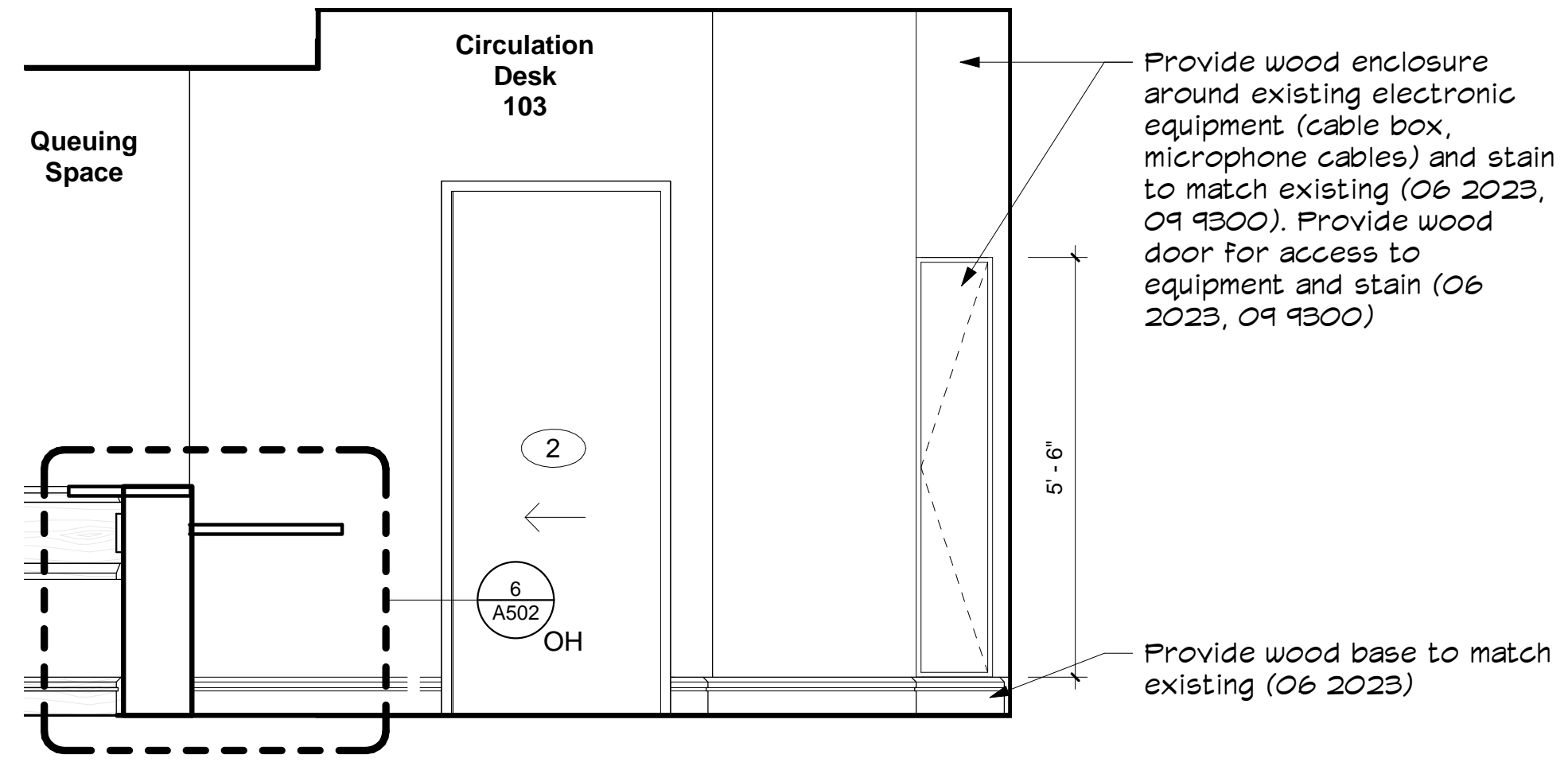
8 Detail at Wood Bench
1 1/2" = 1'-0"



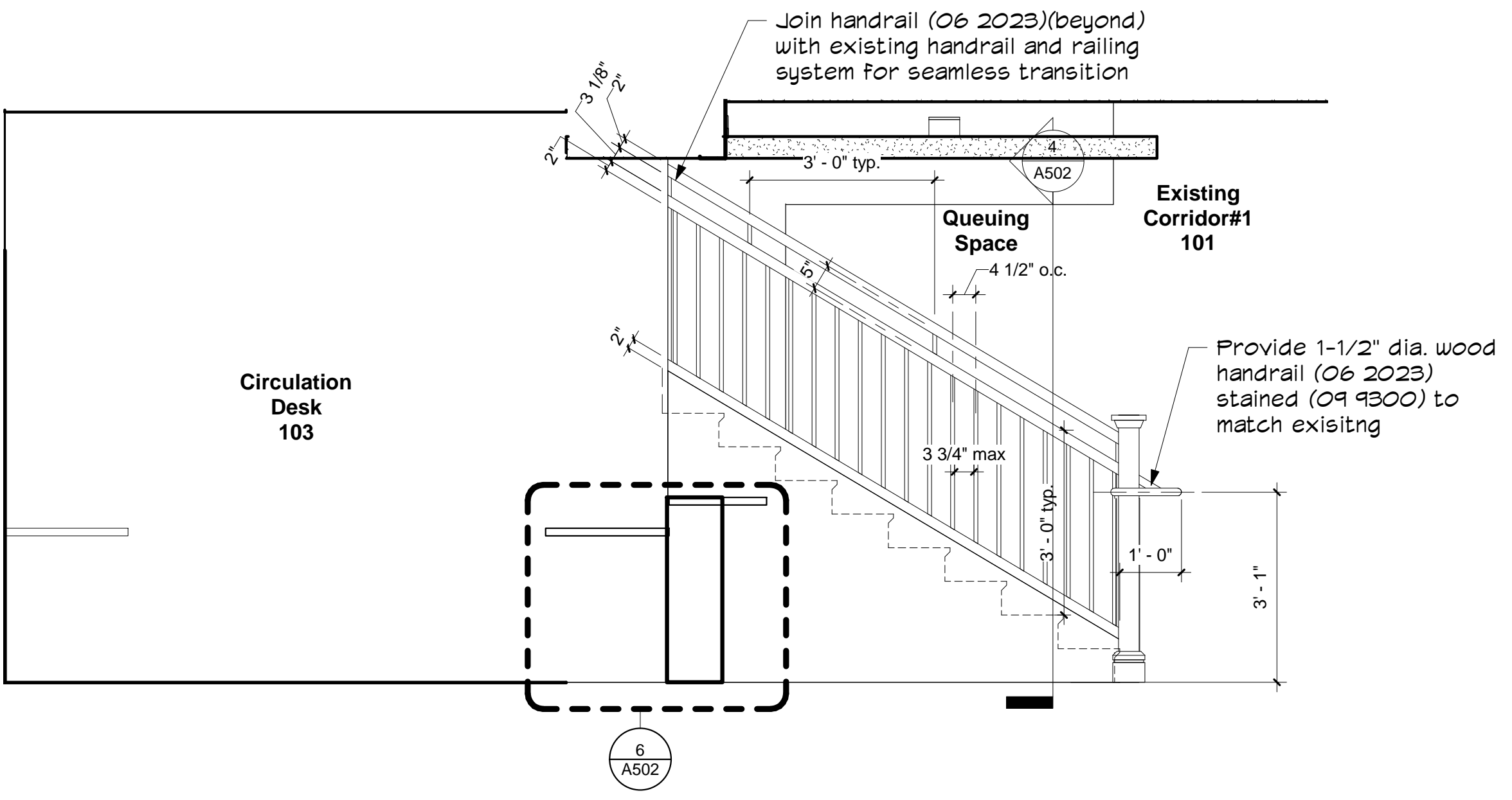
6 Circulation Desk Section
1 1/2" = 1'-0"



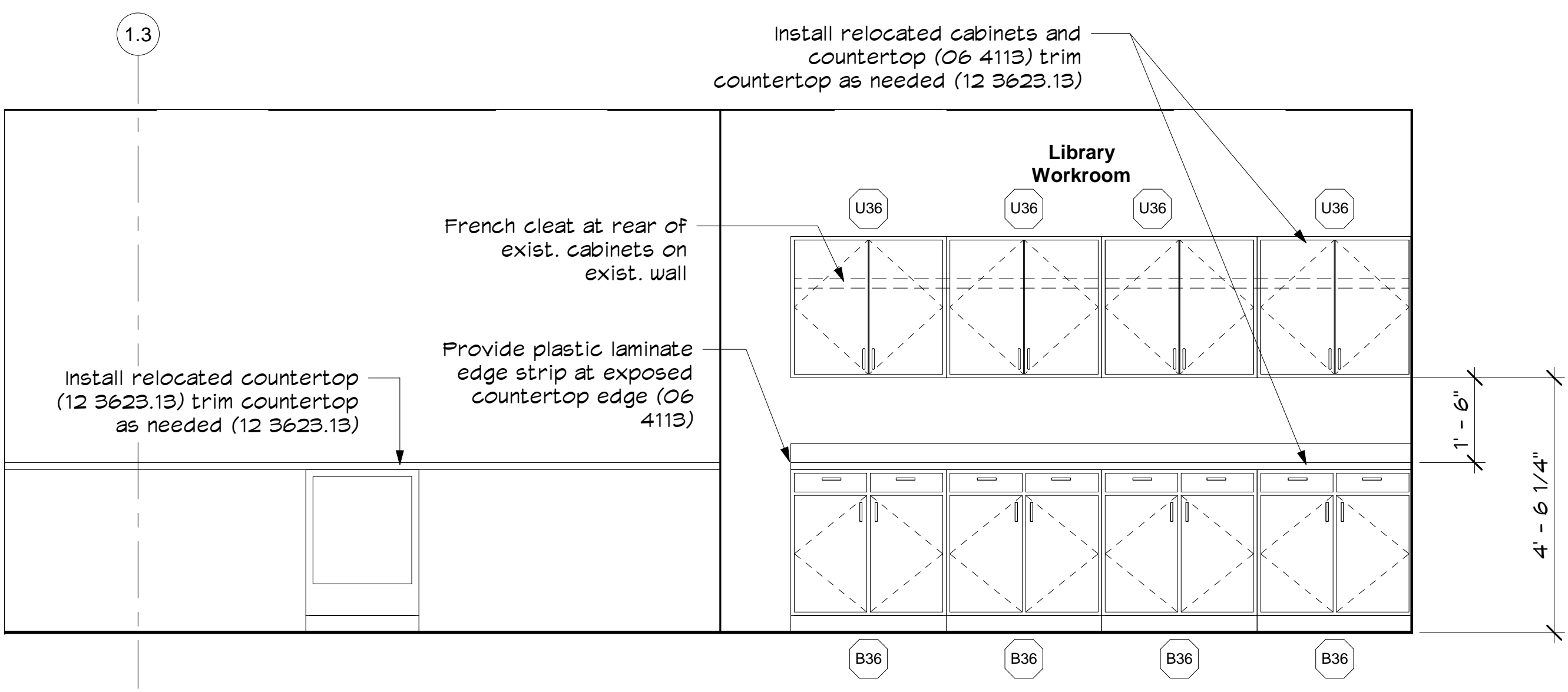
4 Handrail and Guard
1 1/2" = 1'-0"



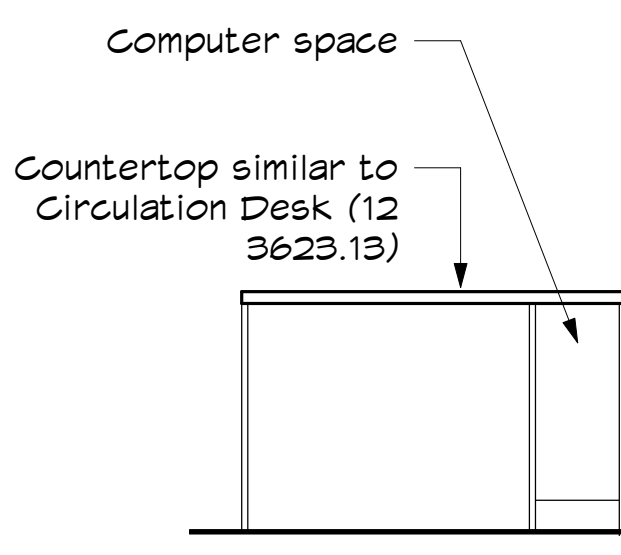
3 Circulation Desk West Elevation
1 1/2" = 1'-0"



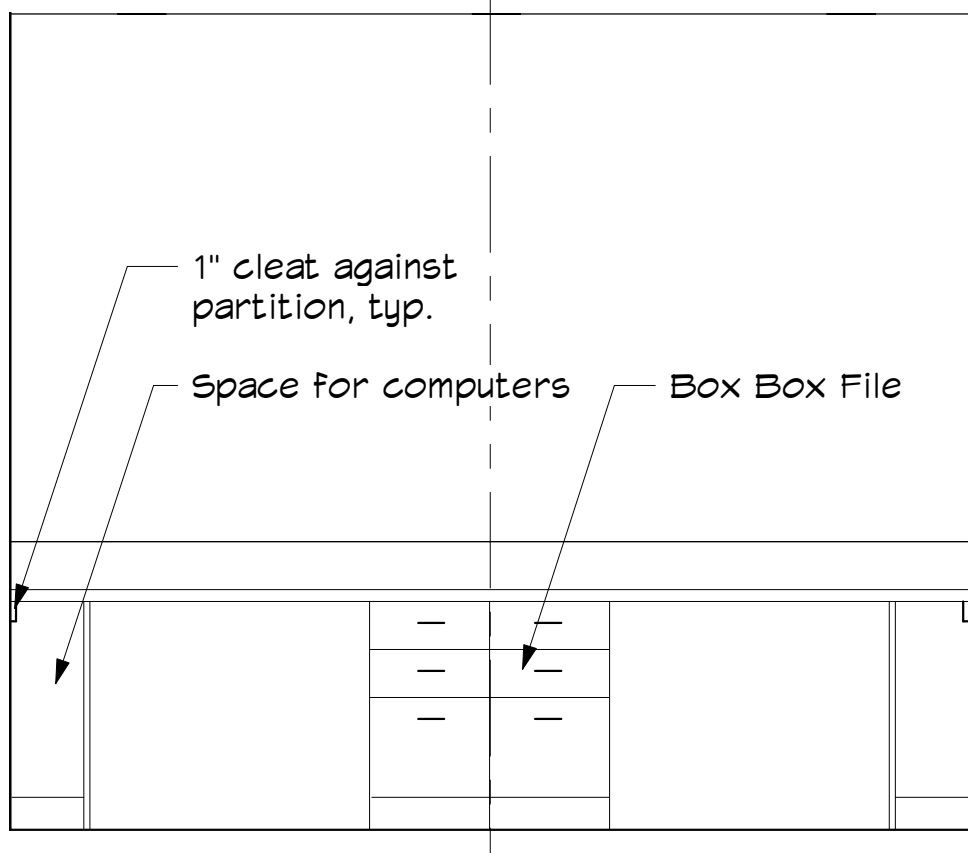
7 Interior Elevation at Stairwell
1/2" = 1'-0"



5 Library Workroom Cabinet Elevation II
1/2" = 1'-0"



2 Back Circulation Desk
1/2" = 1'-0"



1 Circulation Desk
1/2" = 1'-0"



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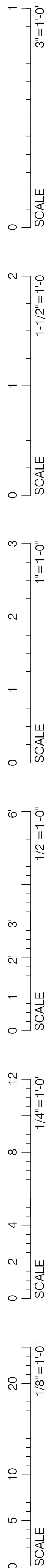
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No. Date A 7/15/2020	Description Bid Set
Project: 699.1 Drawn by: RK Check by: IB Date: 7/15/2020 Scale: As indicated	

Interior Elevations and Millwork

A502

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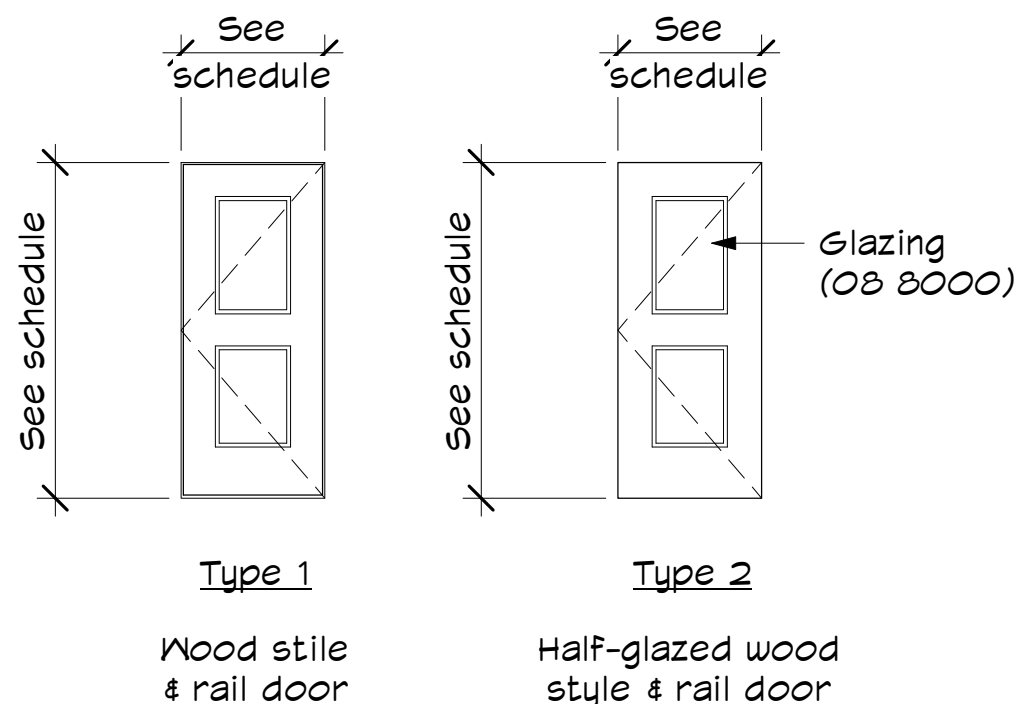
PARTITION SCHEDULE 1i

	<p>Description</p> <ul style="list-style-type: none">3-5/8" metal stud @ 16" o.c.5/8" GNB each sideSAFB <p>1</p> <ul style="list-style-type: none">Height: 6" above ceiling		<p>Description</p> <ul style="list-style-type: none">3-5/8" metal stud @ 16" o.c.5/8" GNB one side onlySAFB <p>2</p> <ul style="list-style-type: none">Height: To bottom of structure		<p>Description</p> <ul style="list-style-type: none">5/8" GNB one sideSAFB <p>3a</p> <ul style="list-style-type: none">Height: To bottom of structure
	<p>1a</p> <ul style="list-style-type: none">5/8" MR GNB each sideSAFBHeight: to underside of structure		<p>2a</p> <ul style="list-style-type: none">Height: 6" above ceiling		
	<p>1b</p> <ul style="list-style-type: none">3-5/8" metal stud @ 16" o.c.5/8" MR GNB each side - to underside of structureSAFB		<p>2b</p> <ul style="list-style-type: none">5/8" MR GNB one side onlyHeight: To bottom of structure.		
	<p>1c</p> <ul style="list-style-type: none">5/8" MR GNB each sideSAFBHeight: To underside of structure		<p>Description</p> <ul style="list-style-type: none">3-5/8" metal stud @ 16" o.c.1/2" GNB each sideSAFB <p>4</p> <ul style="list-style-type: none">Height: 24" landscape partition under deskGNB curved to match desk		
	<p>1d</p> <ul style="list-style-type: none">6" metal stud @ 16" o.c.		<p>4a</p> <ul style="list-style-type: none">(1) 5/8" GNB each side		
	<p>1e</p> <ul style="list-style-type: none">Height: to ceiling				

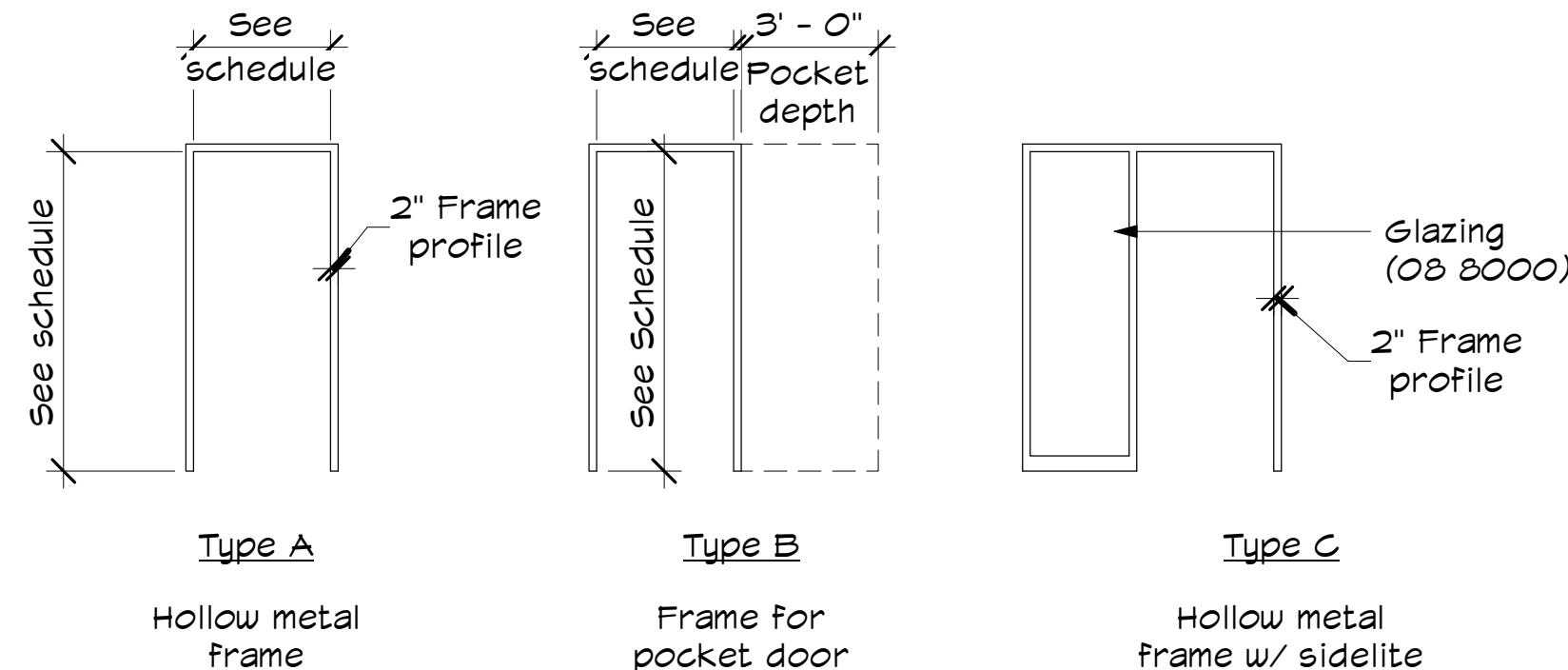
General Partition Notes::

- Where partition appears to extend an existing partition, align the face of GNB with the existing GNB for a smooth surface unless noted otherwise.
- All new partitions are to have acoustical sealant as shown on detail
- For better sound isolation, stagger electrical boxes in the partition to avoid being back to back. Where possible, place electrical boxes in different stud cavities.

DOOR TYPES (08 1433)



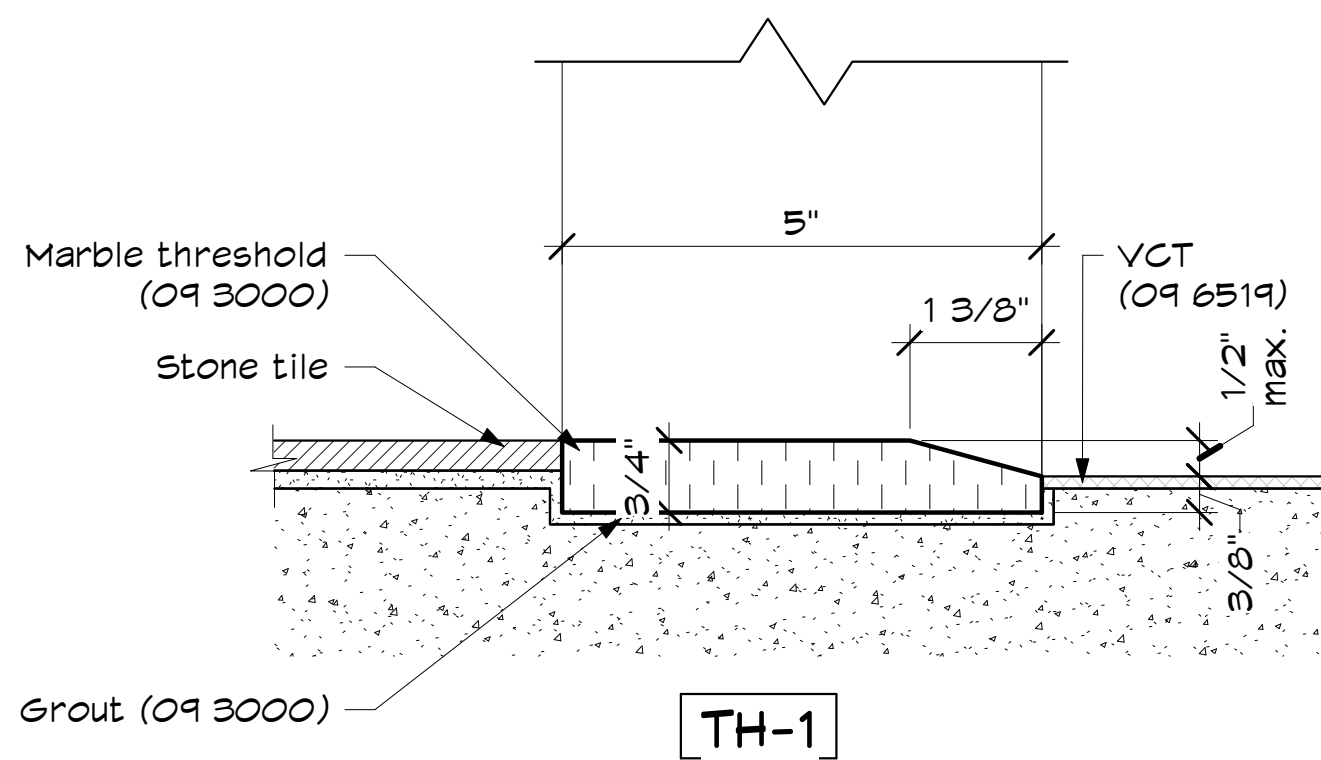
FRAME TYPES (08 1113)



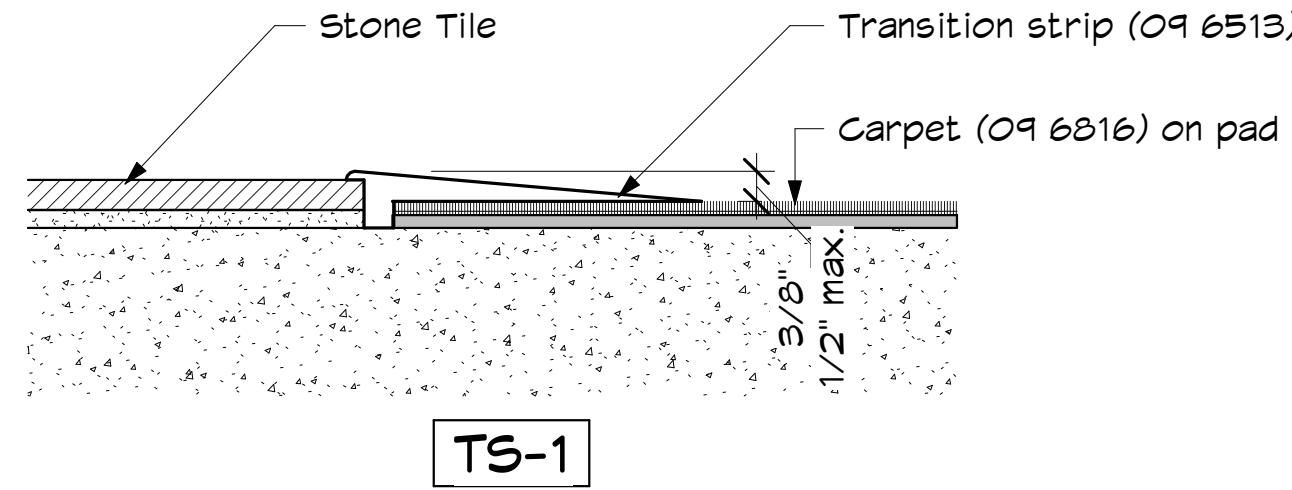
Note: Contractor to match existing wood trim detail at metal door frames

Door Schedule

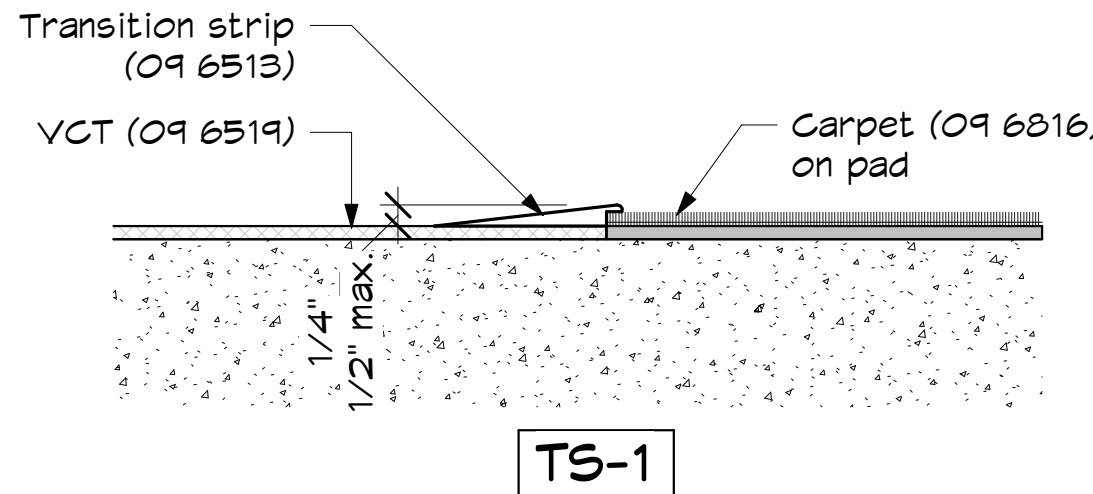
No.	Room Number and Name	Door Type	Door Size		Door Material	Door Finish	Frame Type	Frame		Details			Comments
			Height	Width				Mat.	Finish	Head	Jamb	Sill	
New Construction													
1	Library Workroom (#130)	A	7' - 0"	3' - 0"	SCND	Stain	Type A	H.M.	Painted				
2	Breakroom (#107)	A	7' - 0"	3' - 0"	SCND	Stain	Type B	H.M.	Painted				
3	Director's Office (#131)		7' - 0"	3' - 0"	SCND	Stain	Type C	H.M.	Painted				
4	Storage (#6)	A	7' - 0"	3' - 0"	SCND	Stain	Type A	H.M.	Painted				
5			0"	0"									
6			7' - 0"	2' - 6"									



1 Threshold - Stone Tile to VCT 6" = 1'-0"



2 Transition Strip - Stone Tile to Carpet 6" = 1'-0"



3 Transition Strip - VCT to Carpet 6" = 1'-0"

Plot Date: 7/14/2020 5:38:47 PM

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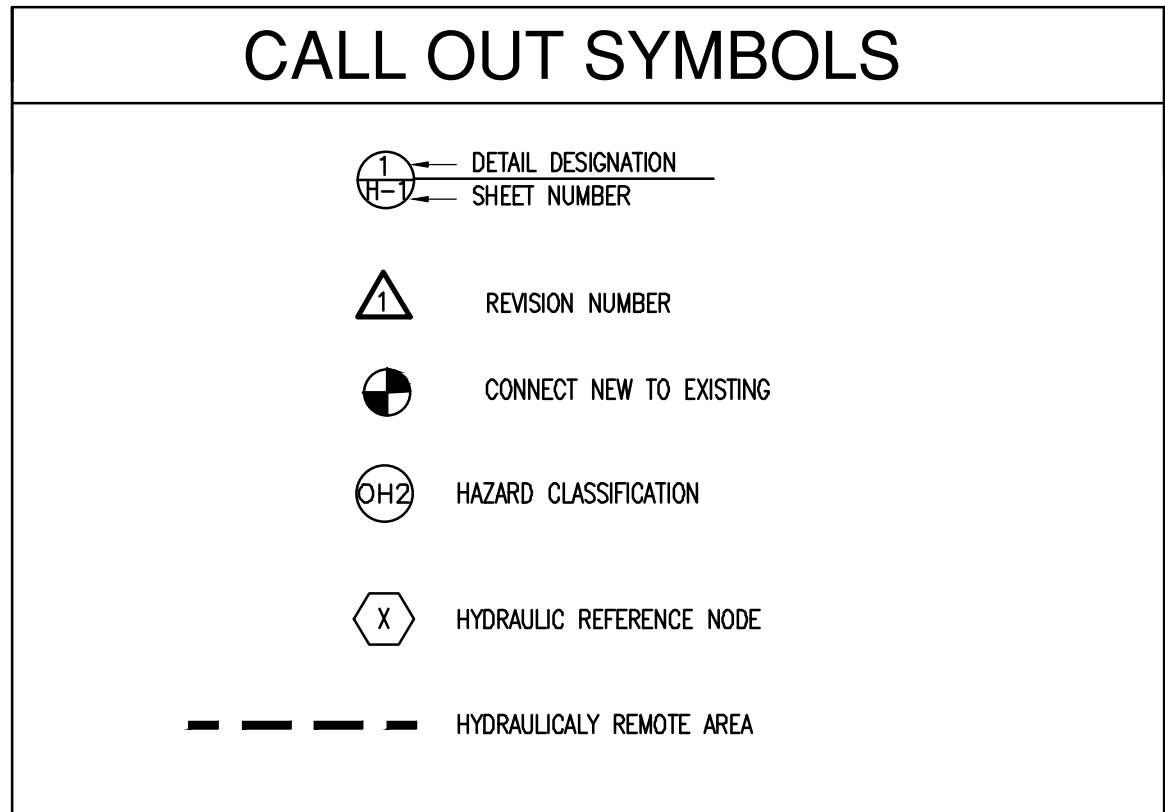
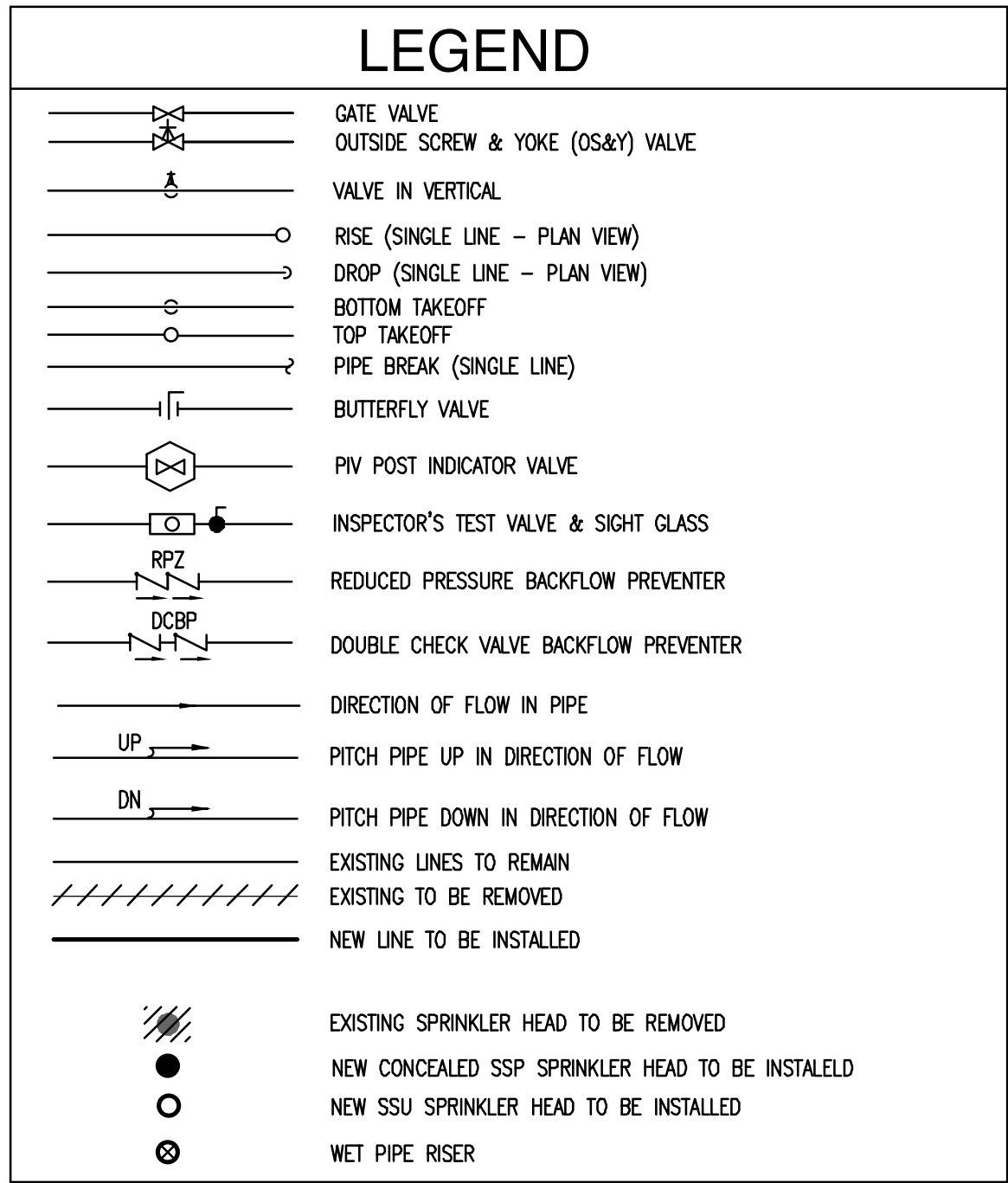
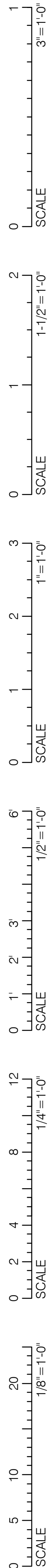
No. Date Description
A 7/15/2020 Bid Set

Project: 699.1
Drawn by: RK
Check by: IB
Date: 7/15/2020
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Partition and
Door Schedules

A601

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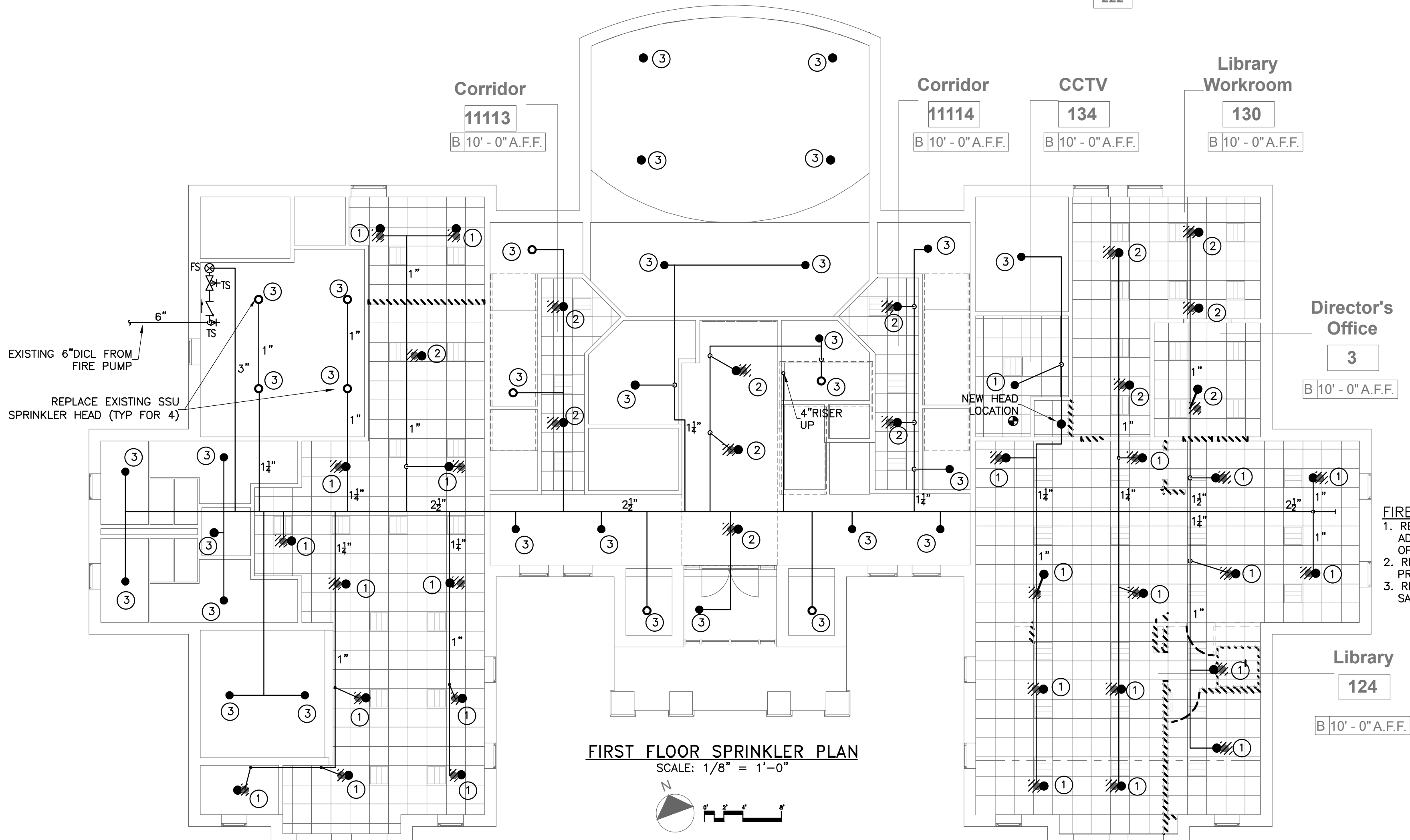
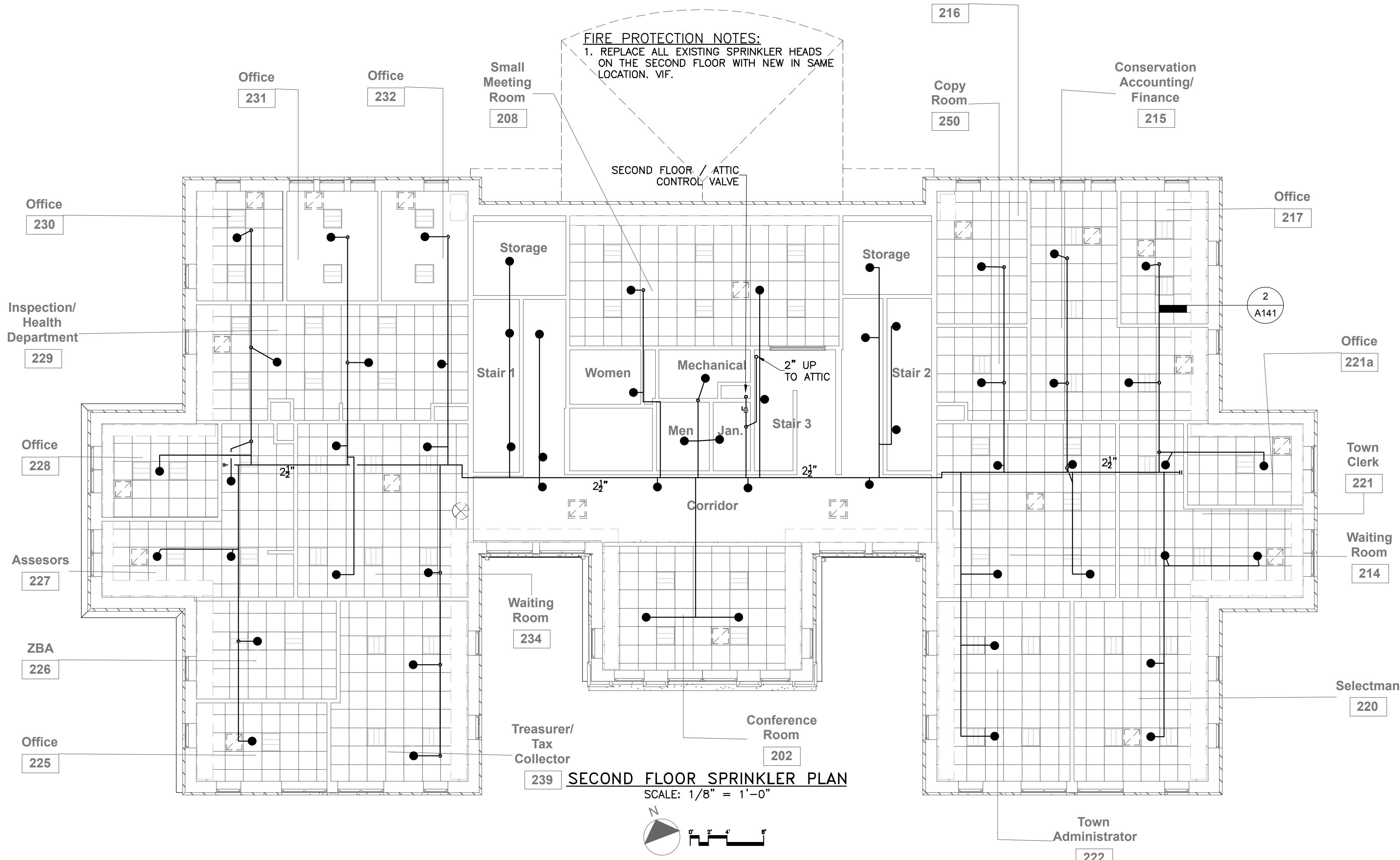


SPRINKLER SCHEDULE & LEGEND						
SYMBOL	MFR	MODEL No.	THREAD	K	TEMP	FINISH
	VIKING	VK3001, QRES, SSU	1/2"	5.6	155°	BRASS
	VIKING	VK462 CONCEALED PEND, SSP, QRES	1/2"	5.6	135°/155°	WHITE

NOTES: 1. COORDINATE FINISHES WITH ARCHITECT
2. VERIFY EXACT STYLE & LOCATION OF ALL HEADS IN FIELD.

FIRE PROTECTION GENERAL NOTES:

- ALL PIPING SHOWN IS DIAGRAMMATIC ONLY, EXACT LOCATION TO BE DETERMINED IN THE FIELD.
- CONTRACTOR SHALL REVIEW ALL CIVIL, STRUCTURAL, ARCHITECTURAL, HVAC AND PLUMBING DRAWINGS TO BE FAMILIAR WITH THE DETAILS OF CONSTRUCTION IN ADDITION TO COORDINATING WITH THE OTHER TRADES TO ELIMINATE CONFLICTS PRIOR TO INSTALLATION.
- REQUIRED FIRE RESISTANCE OF ALL FLOORS AND WALLS SHALL BE MAINTAINED WHERE PENETRATIONS OCCUR. FIRESTOPPING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL FIRE PROTECTION WORK SHALL BE IN ACCORDANCE WITH MASSACHUSETTS STATE BUILDING CODE, NINTH EDITION, CHAPTER 9, INCLUDING ALL PERTINENT NFPA REFERENCED STANDARDS AS ADOPTED.
- SLOPE ALL PIPING TO A PITCH OF 1/4" IN TEN FEET. PROVIDE ADDITIONAL AUXILIARY DRAINS AS REQUIRED.
- COORDINATE ALL SHUT-DOWNS WITH AND PROVIDE FIRE WATCHES AS REQUIRED BY THE TOWN OF BOXFORD AND THE BOXFORD FIRE DEPARTMENT.
- PERFORM AN INTERNAL PIPE INSPECTION PER NFPA-25, 2018 CH 14, IN THE PRESENCE OF THE ENGINEER. VIDEO RECORD THE INSPECTION AND PROVIDE TO OWNER.



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Boxford Town Hall
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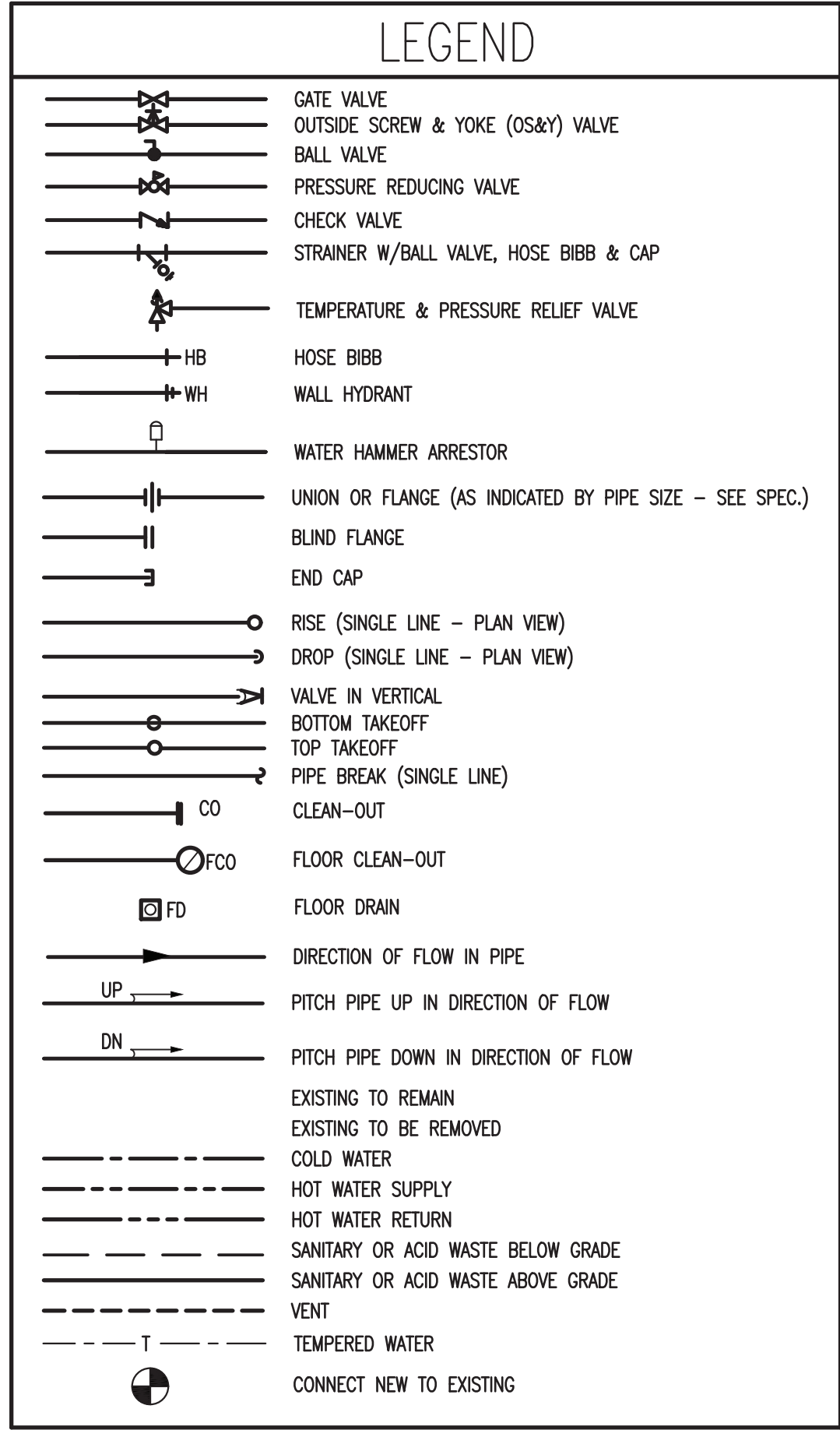
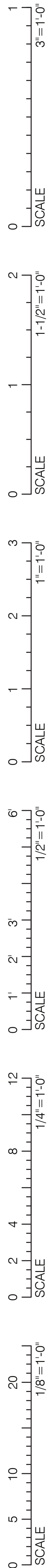
No.	Date	Description
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Drawn by:	JRW
Check by:	JRW
Date:	7/15/2020
Scale:	AS NOTED

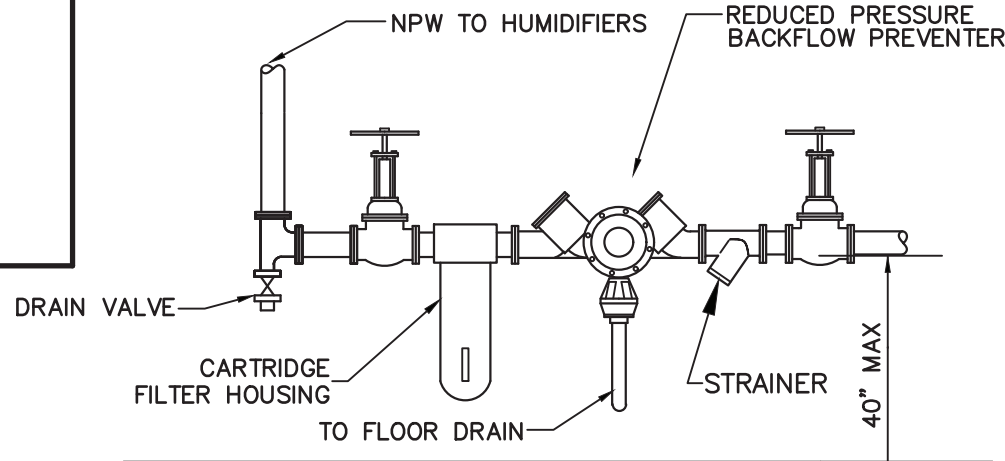
**FIRE PROTECTION
NEW WORK
PLANS**

FP-1

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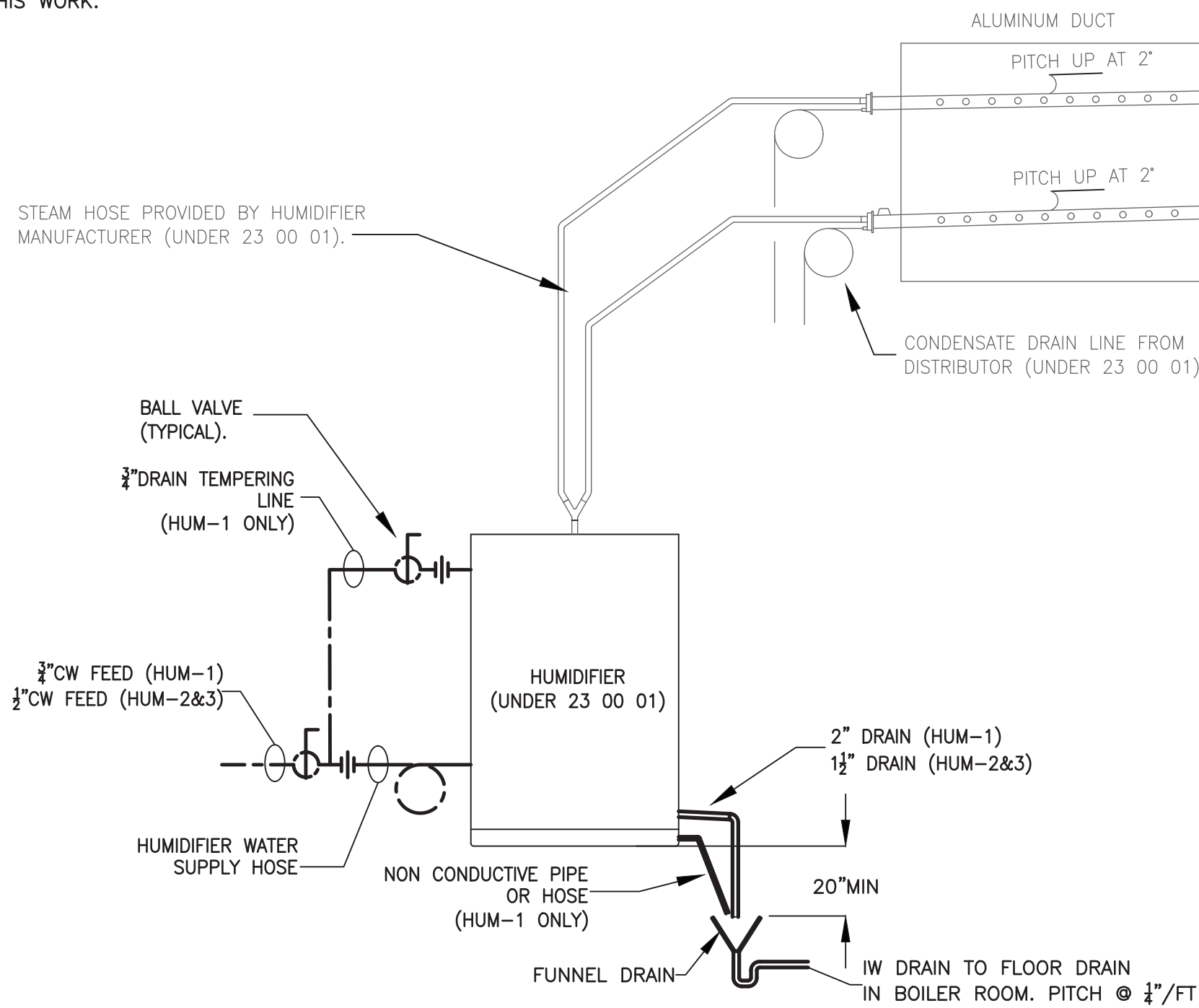
ABBREVIATIONS	
AFF	ABOVE FINISH FLOOR
ARCH	ARCHITECT
BLDG	BUILDING
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CW	COLD WATER
CTE	CONNECT TO EXISTING
CONT	CONTINUATION
DIA	DIAMETER
DWG	DRAWING
FD	FLOOR DRAIN
FLR	FLOOR
FCO	FLOOR CLEANOUT
INV	INVERT
HC	HANDICAPPED
HW	HOT WATER
NTS	NOT TO SCALE
NPC	NON-POTABLE COLD WATER
NPH	NON-POTABLE HOT WATER
NPR	NON-POTABLE HOT WATER RECIRC
SA	SHOCK ABSORBER
SAN	SANITARY WASTE
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF



BACKFLOW PREVENTER DETAIL
NOT TO SCALE

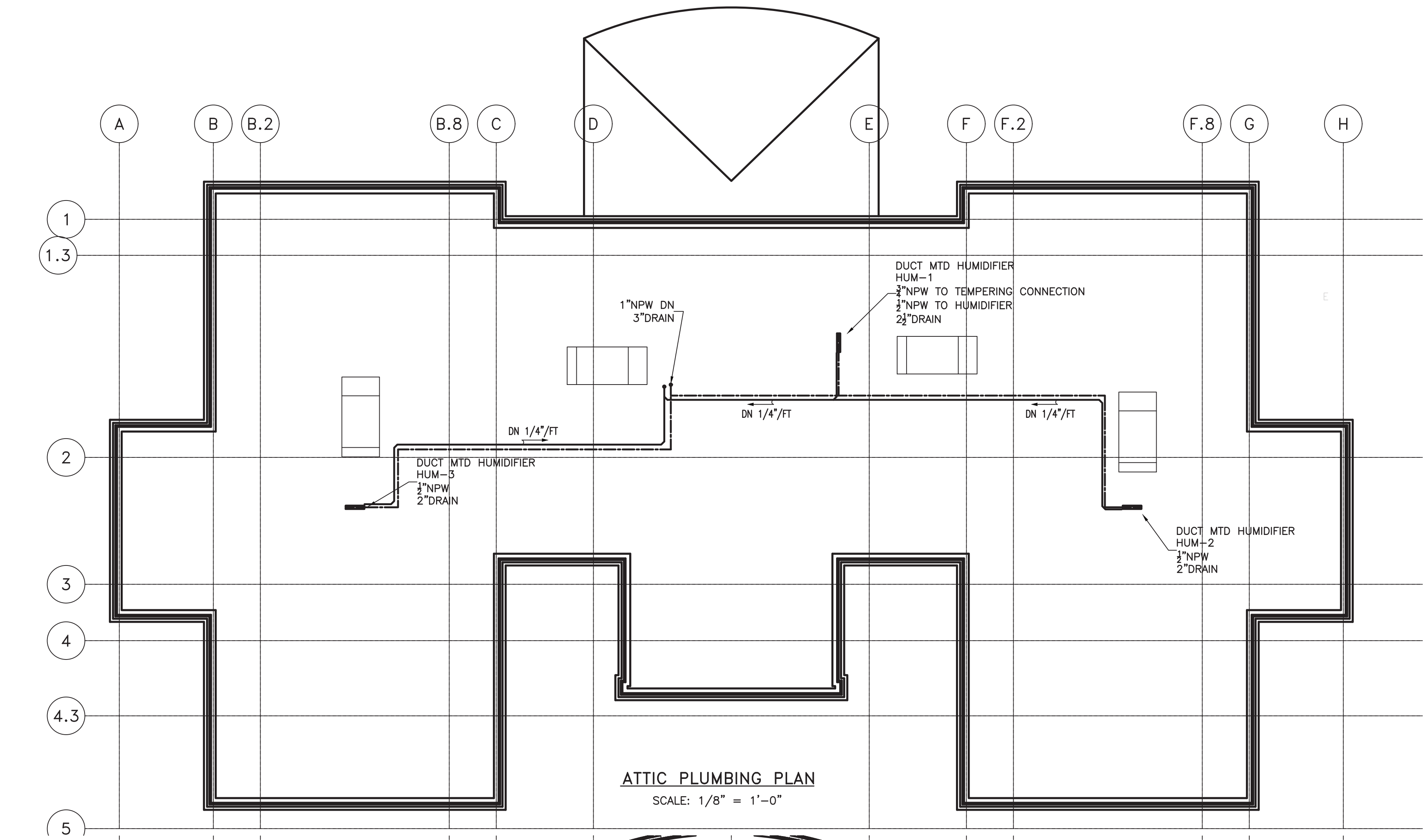
PLUMBING GENERAL NOTES:

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2. CONTRACTOR SHALL REVIEW ALL CIVIL, STRUCTURAL, ARCHITECTURAL, HVAC AND FIRE PROTECTION DRAWINGS TO BE FAMILIAR WITH THE DETAILS OF CONSTRUCTION IN ADDITION TO COORDINATING WITH THE OTHER TRADES TO ELIMINATE CONFLICTS PRIOR TO INSTALLATION.
3. ALL PIPING IN FINISHED AREAS SHALL BE RUN CONCEALED.
4. ALL PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE.
5. RUN WATER PIPING ON THE WARM SIDE OF INSULATION WHEN DROPS ARE REQUIRED ON EXTERIOR WALLS.
6. PROVIDE DRAW-OFFS AT ALL LOW POINTS OF THE SYSTEMS. PROVIDE HOSE END VACUUM BREAKER ON ALL LOW POINT DRAW-OFF VALVES.
7. PLUMBING CONTRACTOR SHALL FURNISH, MAINTAIN AND INSTALL ALL SCAFFOLDING, HOISTING EQUIPMENT, ETC., NECESSARY FOR THE INSTALLATION OF HIS WORK.



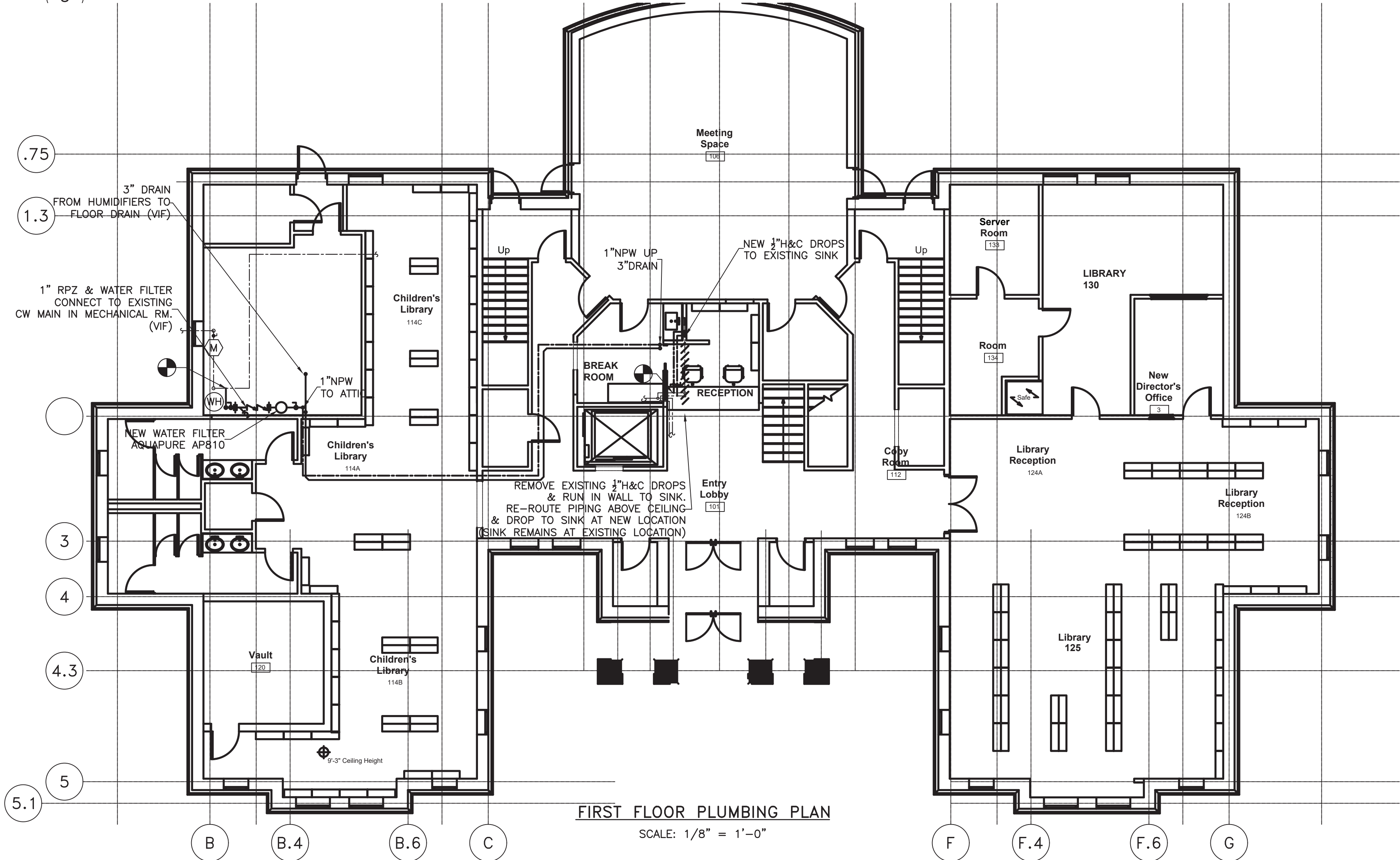
DUCT MOUNTED HUMIDIFIER SCHEMATIC

— NO SCALE —



ATTIC PLUMBING PLAN

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

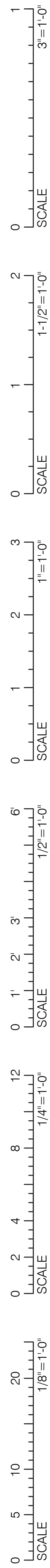


FIRST FLOOR PLUMBING PLAN

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

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DEMOLITION NOTES

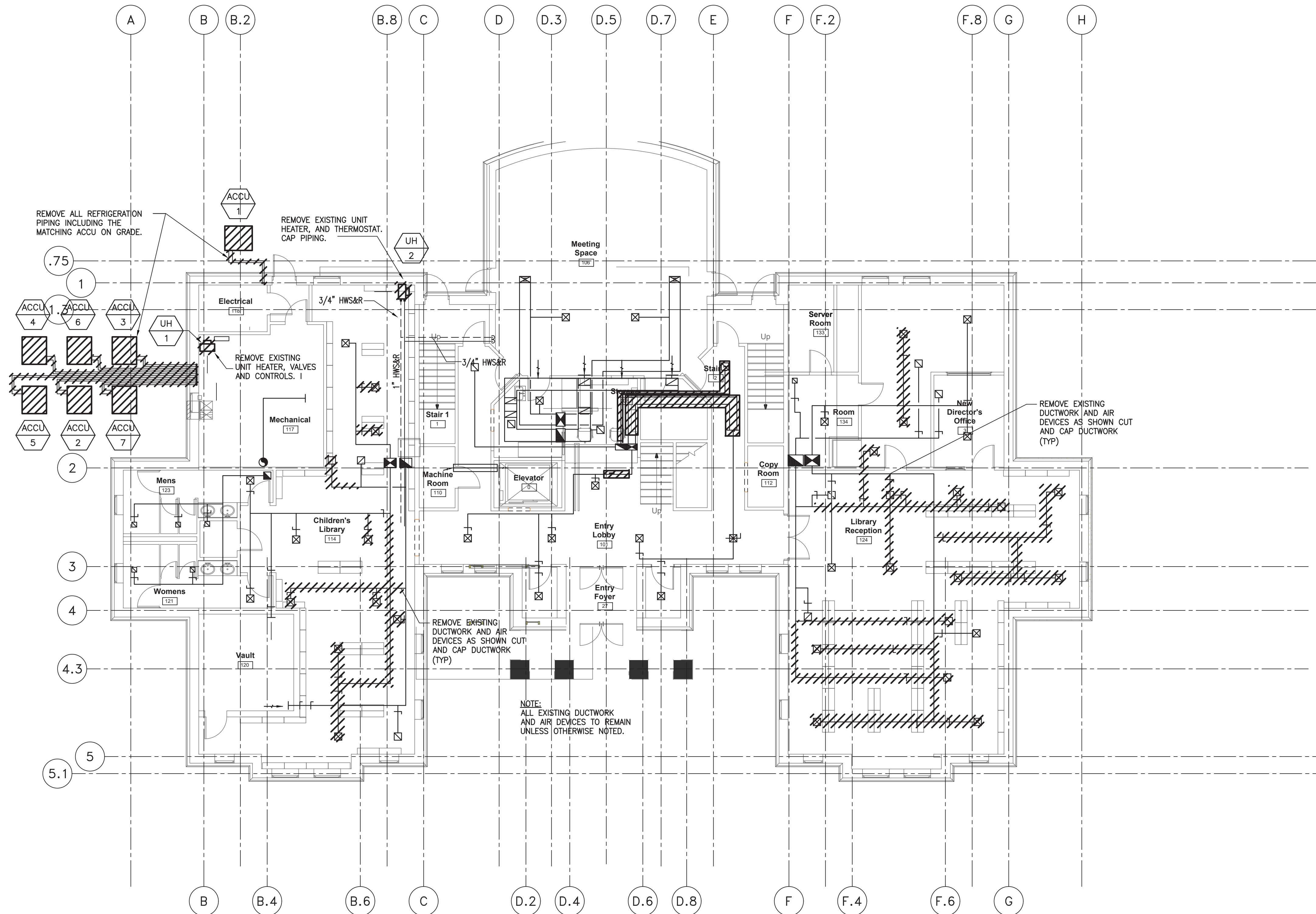
THE LIMITED DEMOLITION SCOPE OF WORK IS TO REMOVE SEVEN EXISTING AIR COOLED CONDENSING UNITS, REFRIGERANT PIPING, THERMOSTATS, DUCTWORK, REGISTERS GRILLS AND DIFFUSERS, INSULATION, AND ASSOCIATED CONTROL WIRING.

MECHANICAL EQUIPMENT, DUCTWORK, PIPING, INSULATION AND CONTROLS SHALL BE REMOVED AS SHOWN. ALL EXISTING HANGERS, HARDWARE, AND VIBRATION ISOLATORS TO BE REMOVED.

ALL SEVEN CONDENSING UNITS NOTED TO BE REMOVED SHALL BE PUMPED DOWN AND THE REFRIGERANT STORED IN TANKS SPECIFICALLY DESIGNED AND LABELED FOR THE REFRIGERANT. THE REFRIGERANT TANKS SHALL THEN BE TURNED OVER TO THE OWNER OR REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES, AT THE DISCRETION OF THE OWNER.

WHERE EQUIPMENT ELECTRICALLY DISCONNECTED FROM POWER SOURCE, THE POWER SOURCE SHALL BE SAFELY TERMINATED IN ACCORDANCE WITH STATE AND LOCAL CODES BY A LICENSED ELECTRICIAN.

DEMOLISHED AND REMOVED PIPING, DUCTWORK, CONTROLS, INSULATION, AND ASSOCIATED EQUIPMENT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN COMPLIANCE WITH THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, FEDERAL STATE AND LOCAL CODES.



MECHANICAL FIRST FLOOR DEMOLITION PLAN

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



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7 Spofford Rd, Buxford, MA 01921

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No.	Date	Description
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Drawn by:	TMM
Check by:	LTC
Date:	07/15/2020
Scale:	AS NOTED

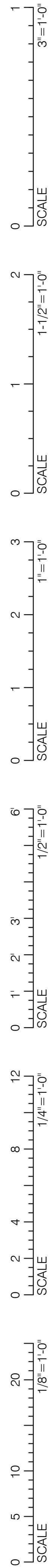
HVAC
FIRST FLOOR
DEMOLITION
PLAN

HD-1

NE
Northeast Engineering & Commissioning
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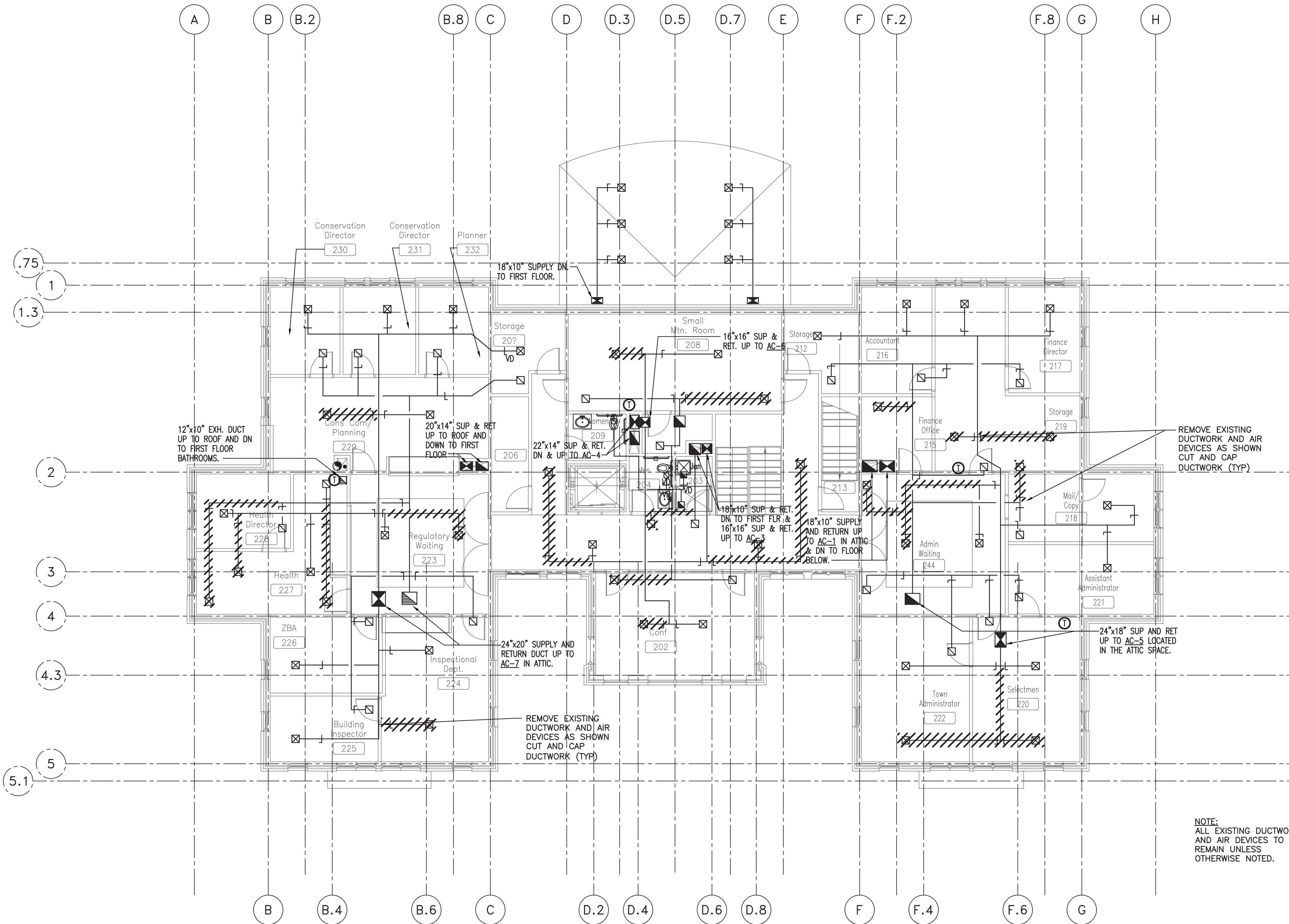
DEMOLITION NOTES

THE LIMITED DEMOLITION SCOPE OF WORK IS TO REMOVE SEVEN EXISTING AIR COOLED CONDENSING UNITS, REFRIGERANT PIPING, THERMOSTATS, DUCTWORK, REGISTERS GRILLS AND DIFFUSERS, INSULATION, AND ASSOCIATED CONTROL WIRING.

MECHANICAL EQUIPMENT, DUCTWORK, PIPING, INSULATION AND CONTROLS SHALL BE REMOVED AS SHOWN. ALL EXISTING HANGERS, HARDWARE, AND VIBRATION ISOLATORS TO BE REMOVED.

WHERE EQUIPMENT ELECTRICALLY DISCONNECTED FROM POWER SOURCE, THE POWER SOURCE SHALL BE SAFELY TERMINATED IN ACCORDANCE WITH STATE AND LOCAL CODES BY A LICENSED ELECTRICIAN.

DEMOLISHED AND REMOVED PIPING, DUCTWORK, CONTROLS, INSULATION, AND ASSOCIATED EQUIPMENT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN COMPLIANCE WITH THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, FEDERAL STATE AND LOCAL CODES.



MECHANICAL SECOND FLOOR DEMOLITION PLAN

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

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Plot Date: 3/12/2020 10:20:04 AM

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No.	Date	Description
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Project:	699.1
Drawn by:	TMM
Check by:	LTC
Date:	07/15/2020
Scale:	AS NOTED

HVAC
2ND FLOOR
DEMOLITION
PLAN

HD-2



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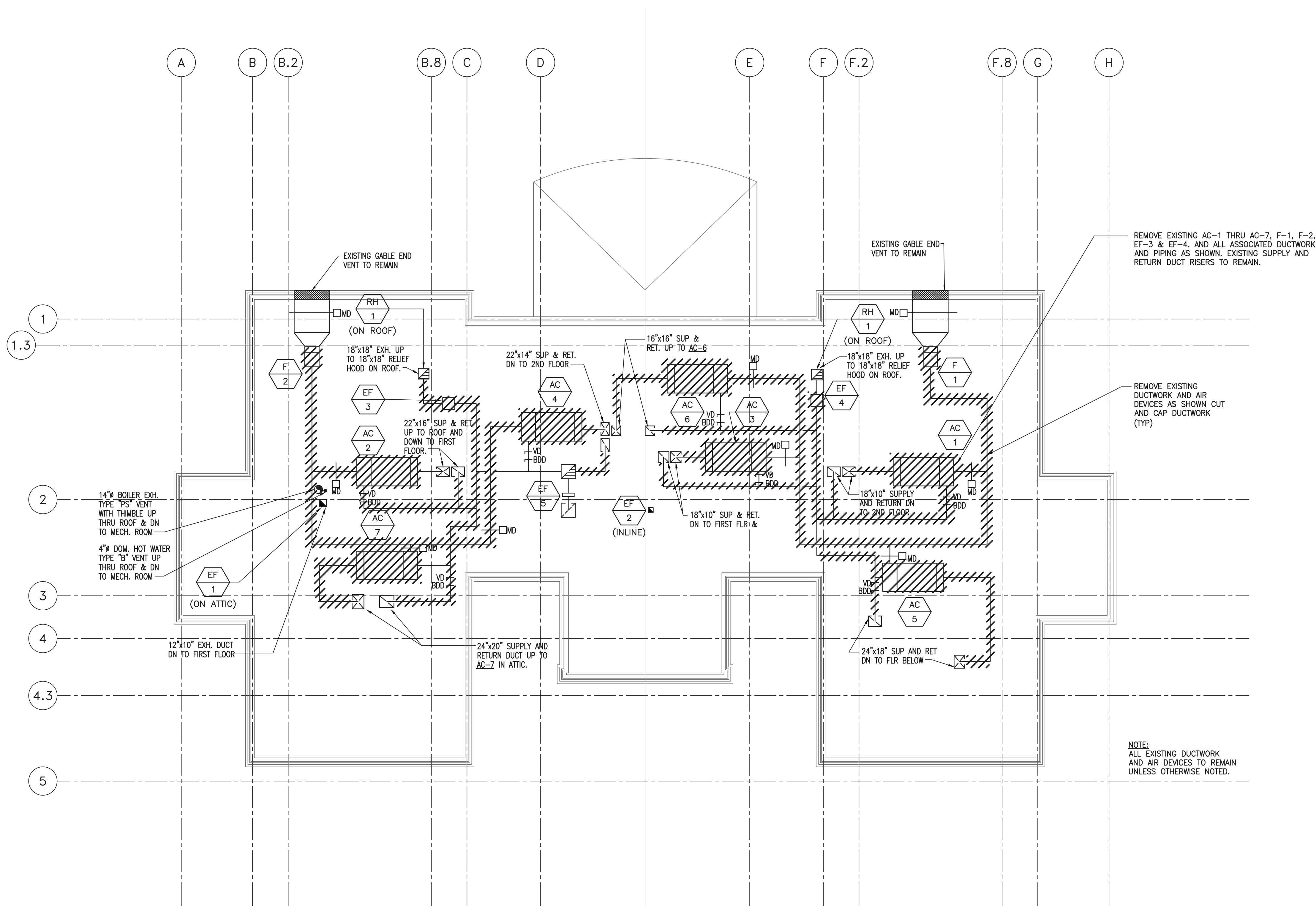
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HVAC ATTIC DUCTWORK DEMOLITION PLAN

HD-3



NOTE:
ALL EXISTING DUCTWORK
AND AIR DEVICES TO REMAIN
UNLESS OTHERWISE NOTED.

MECHANICAL LOWER ATTIC DUCTWORK DEMOLITION PLAN

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



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DEMOLITION NOTES

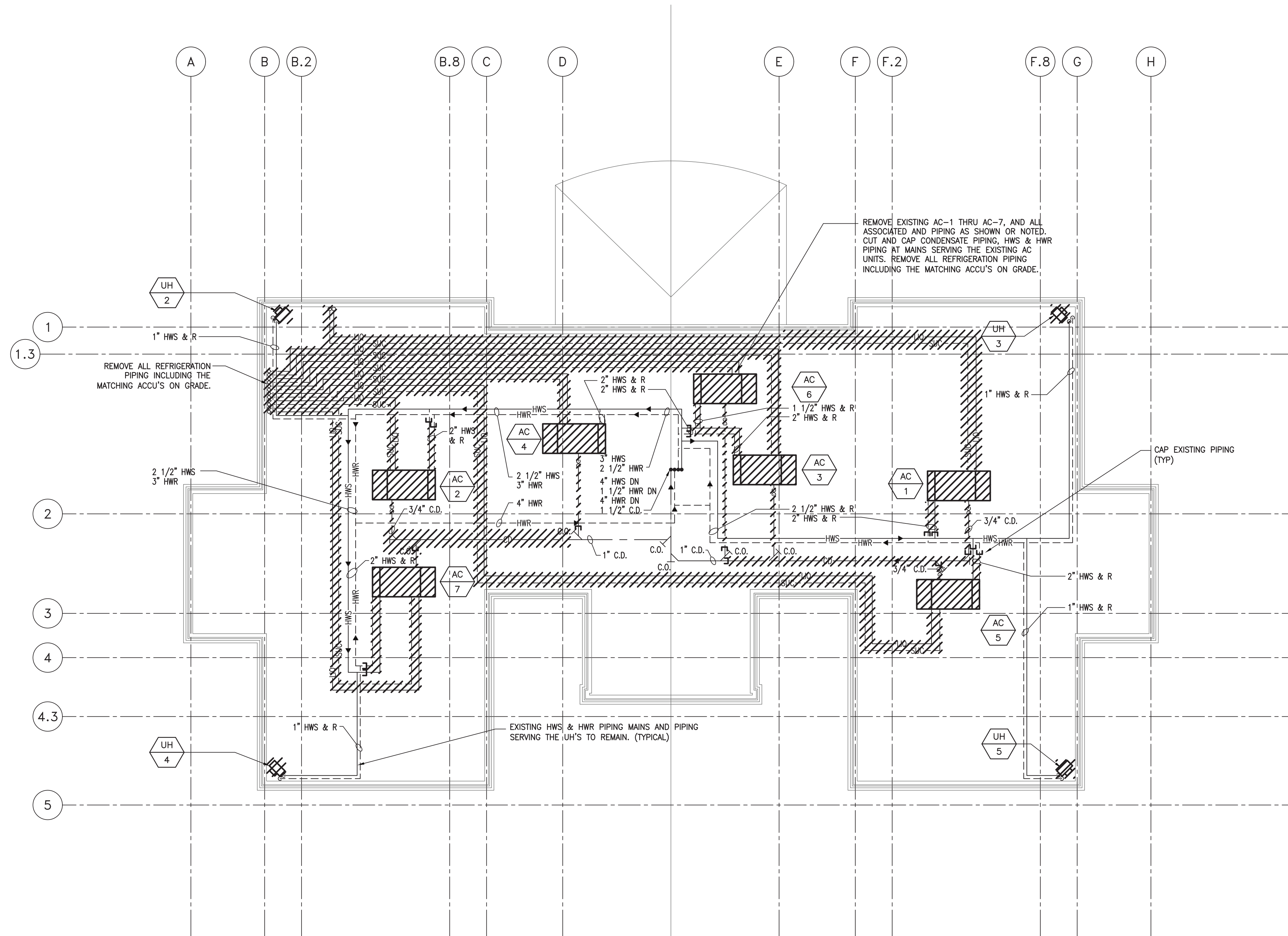
THE LIMITED DEMOLITION SCOPE OF WORK IS TO REMOVE THE SEVEN EXISTING AIR CONDITIONING UNITS, FOUR EXISTING HOT WATER UNIT HEATERS, REFRIGERANT PIPING, THERMOSTATS, DUCTWORK, INSULATION, AND ASSOCIATED CONTROL WIRING.

MECHANICAL EQUIPMENT, DUCTWORK, PIPING, INSULATION AND CONTROLS SHALL BE REMOVED IN AS SHOWN. ALL EXISTING HANGERS, HARDWARE AND VIBRATION ISOLATORS TO BE REMOVED.

WHERE EQUIPMENT ELECTRICALLY DISCONNECTED FROM POWER SOURCE, THE POWER SOURCE SHALL BE SAFELY TERMINATED IN ACCORDANCE WITH STATE AND LOCAL CODES BY A LICENSED ELECTRICIAN.

DEMOLISHED AND REMOVED PIPING, DUCTWORK, CONTROLS, INSULATION, AND ASSOCIATED EQUIPMENT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN COMPLIANCE WITH THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, FEDERAL STATE AND LOCAL CODES.

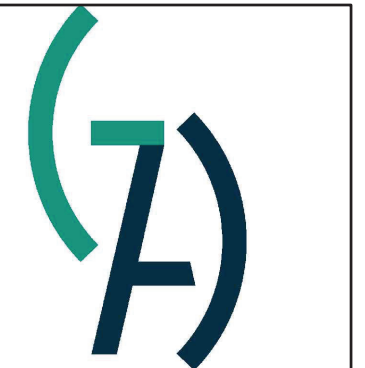
WHEN REMOVED THE SEVEN EXISTING AIR HANDLING UNITS CARE SHALL BE TAKEN TO BE SURE EACH REFRIGERANT SYSTEM IS PUMPED DOWN AND THE REFRIGERANT STORED IN TANKS SPECIFICALLY DESIGNED AND LABELED FOR THE REFRIGERANT. THE REFRIGERANT TANKS SHALL THEN BE TURNED OVER TO THE OWNER OR REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES, AT THE DISCRETION OF THE OWNER.



MECHANICAL LOWER ATTIC PIPING DEMOLITION PLAN

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

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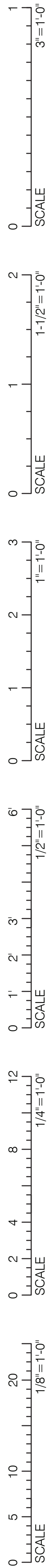
Project:	699.1
Drawn by:	TMM
Check by:	LTC
Date:	07/15/2020
Scale:	AS NOTED

HVAC ATTIC
PIPING
DEMOLITION
PLAN

HD-4

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DIFFUSER SIZING

0 TO 125 CFM 6X6 WITH 6" ROUND NECK

126 TO 175 CFM 9X9 WITH 6" ROUND NECK

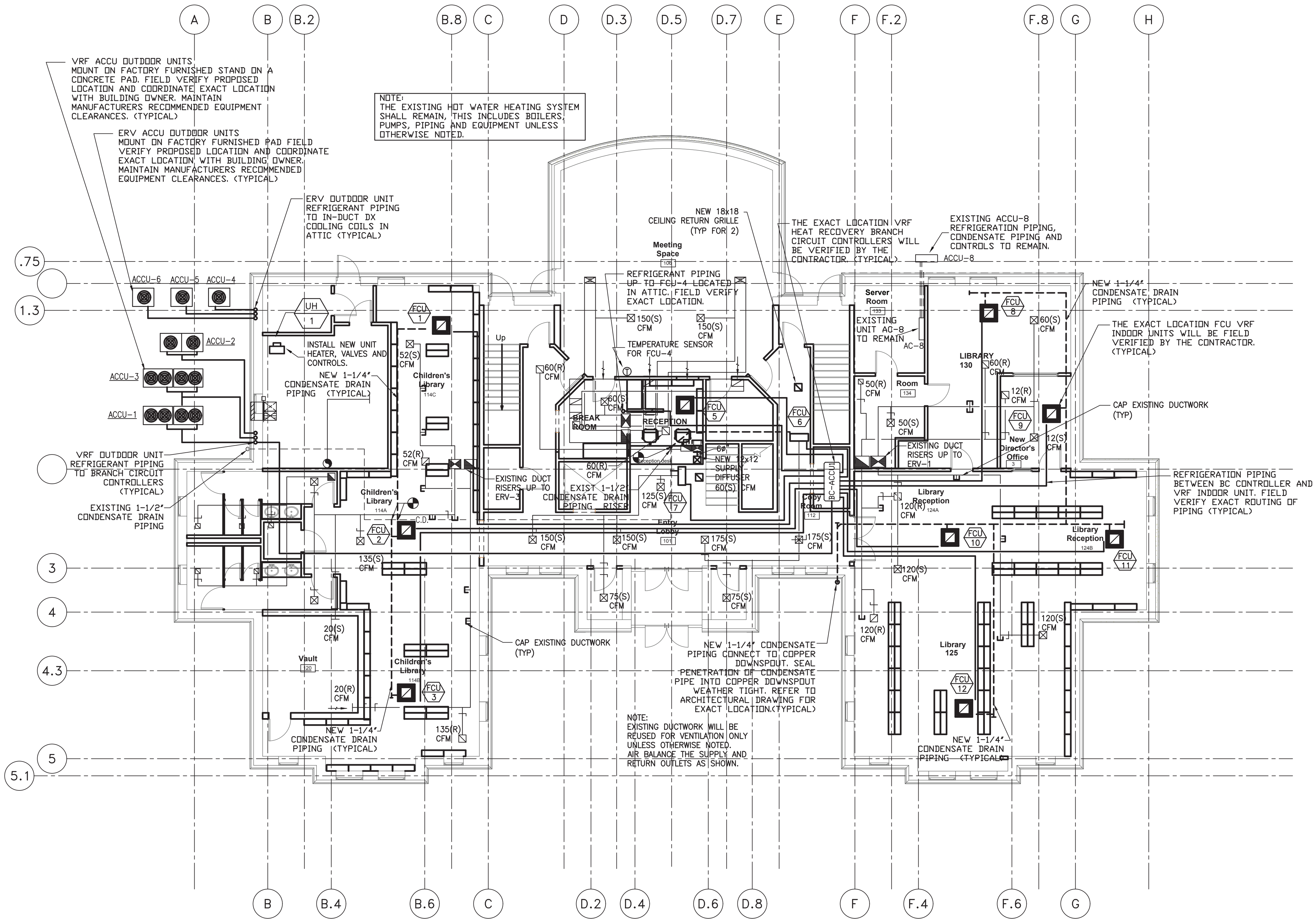
PATCH EXISTING DUCT OPENING AND INSTALL NEW DIFFUSER DROP.

RETURN/EXHAUST REGISTER SIZING

0 TO 150 CFM 6X6 WITH 6" ROUND NECK

151 TO 300 CFM 8X8 WITH 8" ROUND NECK

PATCH EXISTING DUCT OPENING AND INSTALL NEW REGISTER DROP.



MECHANICAL FIRST FLOOR NEW WORK PLAN

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

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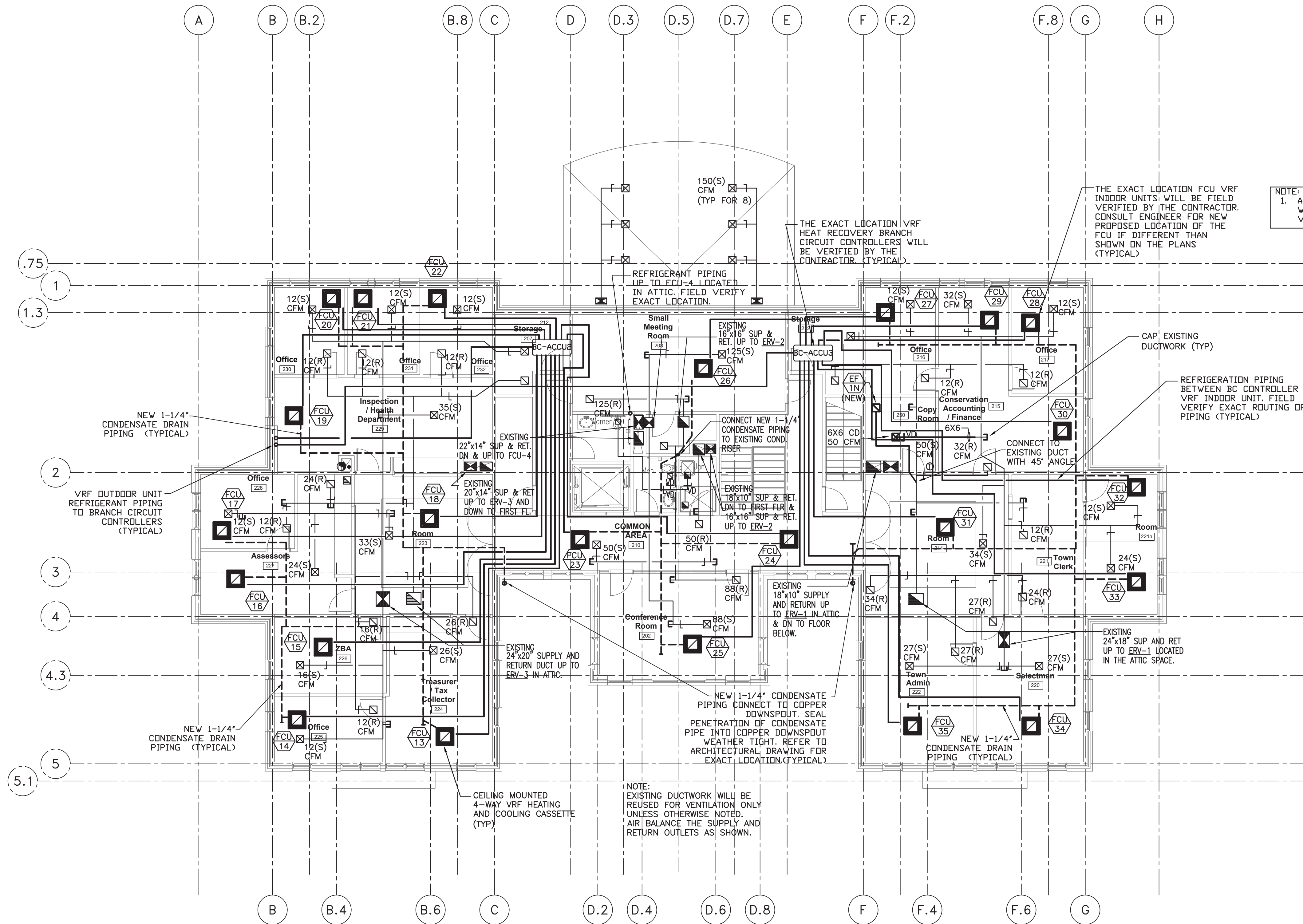
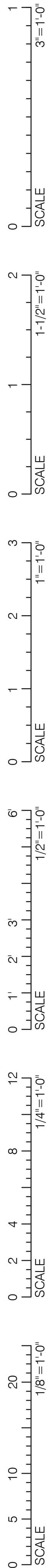
Project:	699.1
Drawn by:	TMM
Check by:	LTC
Date:	07/15/2020
Scale:	AS NOTED

HVAC
FIRST FLOOR
NEW WORK
PLAN

H-1

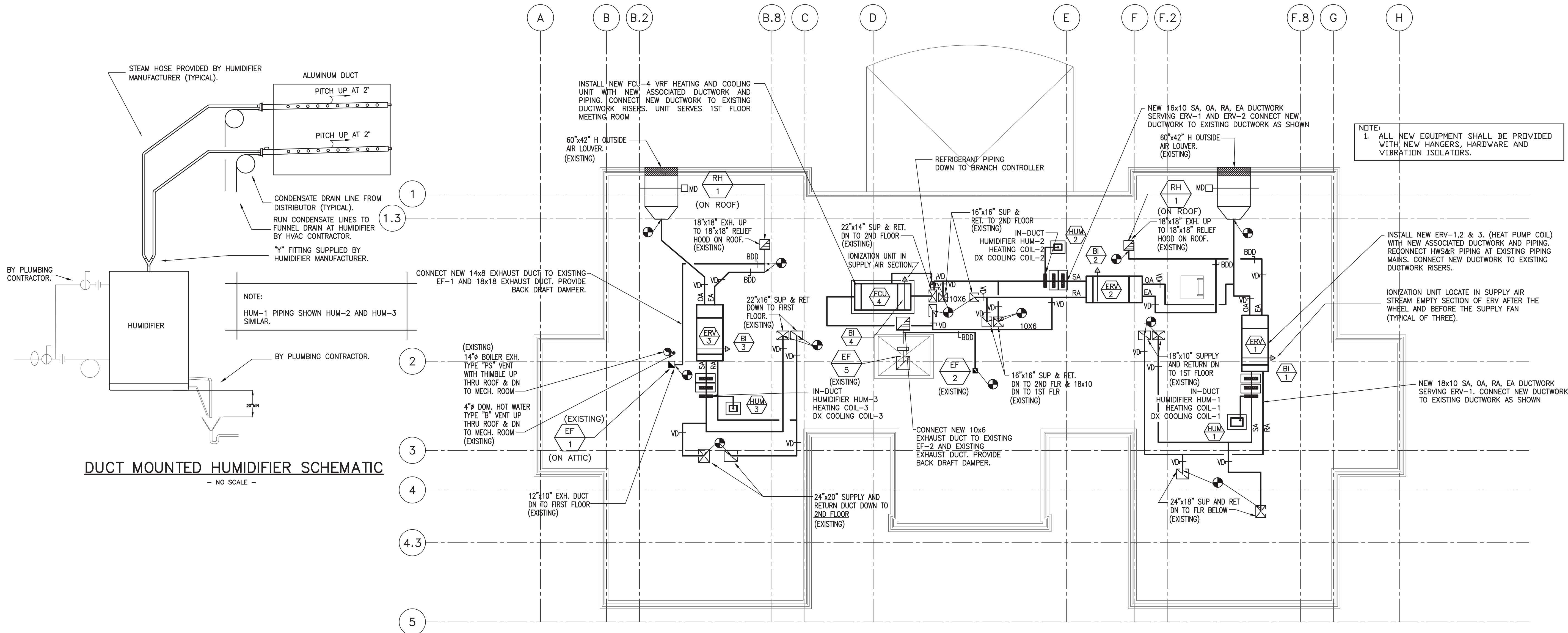
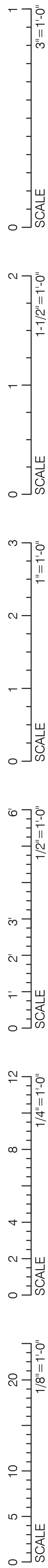
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MECHANICAL LOWER ATTIC NEW DUCTWORK PLAN

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

HEAT RECOVERY UNIT SCHEDULE

TAG No.	MANUFACTURER MODEL No.	SUPPLY FAN DATA				EXHAUST FAN DATA												WHEEL PERFORMANCE HEATING																DUCT MOUNTED HEATING COIL					
		CFM	ESP(IN)	BHP	HP	OUTDOOR AIR				EXHAUST AIR				EFFECTIVENESS	OUTDOOR AIR				EXHAUST AIR				EFFECTIVENESS	AIR DATA				HOT WATERHEATING CAPACITY											
						CFM	ESP(IN)	BHP	HP	EAT °F	DB °F	WB °F	LAT °F		EAT °F	DB °F	WB °F	LAT °F	EAT °F	DB °F	WB °F	LAT °F		EAT °F	DB °F	WB °F	CFM	EAT °F	LAT °F	INPUT MBH	OUTPUT MBH	EW7/LWT							
ERV-1	KILMOR EVO-S 0130	1100	XX	---	XX	1050	1.0	---	XX	0.0	-0.3	53.3	46.8	12.3	12.0	68.0	55.0	78.35	91.0	73.0	75.8	65.4	87.6	70.7	71.6	62.3	78.28	1100	50.00	75.00	29.82	---	180/160						
ERV-2	KILMOR EVO-S 0080	900	XX	---	XX	900	1.0	---	XX	0.0	-0.3	50.8	44.3	16.5	16.2			76.50				76.5	66.4	86.8	69.8			74.60	900	53.00		21.47	---						
ERV-3	↓	↓			↓	↓	↓		↓			↓	↓	↓	↓	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓	---	↓					

MATCH LINE

DUCT MOUNTED REFRIGERANT COOLING														FILTERS	
REFRIGERANT	AIR DATA		COOLING (MBH)		FACE VEL.	ROWS	FINS/FT	AIR PRESSURE DROP INCHES	ELECTRICAL DATA				OUTDOOR AIR	EXHAUST AIR	
	EAT °F	LAT °F	TOTAL	SENSIBLE					VOLTS	PH	MCA	MOP			
R 410A	76.0 DB 66.0 WB	58.75 DB 56.76 WB	31.83	20.84	470	4	72	0.364	208	3	10.97	14.48	MERV 8 + MERV 13	MERV 11	
	77.0 DB 67.0 WB	58.07 DB 56.38 WB	30.19	18.72	385			0.265			28.02	38.93			
↓															

NOTE:
PROVIDE UNIT WITH RETICULATION SECTION, DEFROST CYCLE, VFD'S FOR SUPPLY AND EXHAUST FANS WITH 0 TO 10 VOLT SENSORS, LOW LEAKAGE INTAKE AND EXHAUST DAMPERS, DIRTY FILTER SENSOR, SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
ENERGY RECOVERY VENTILATORS SHALL BE SUITABLE FOR USE WITH STAND ALONE CONTROLS. CONTROLS FURNISHED AND INSTALLED BY THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR.

BIPOLAR IONIZATION AIR PURIFICATION SYSTEM SCHEDULE

UNIT No.	MANUFACTURER & MODEL No.	ION OUTPUT PER INCH OF BAR	ELECTRICAL CHARACTERISTICS			TEMPERATURE RANGE °F	TEMPERATURE RANGE °F	HUMIDITY RANGE % RH	REMARKS
			VOLT	PH	AMPS				
BI-1	GPS-IMOD 24	> 140M IONS/CC/SEC	120	1	0.12	-40 TO 200	-40 TO 200	0 TO 100	OUTPUT BAR LENGTHS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
BI-2									
BI-3									
BI-4									

AIR COOLED CONDENSING UNIT

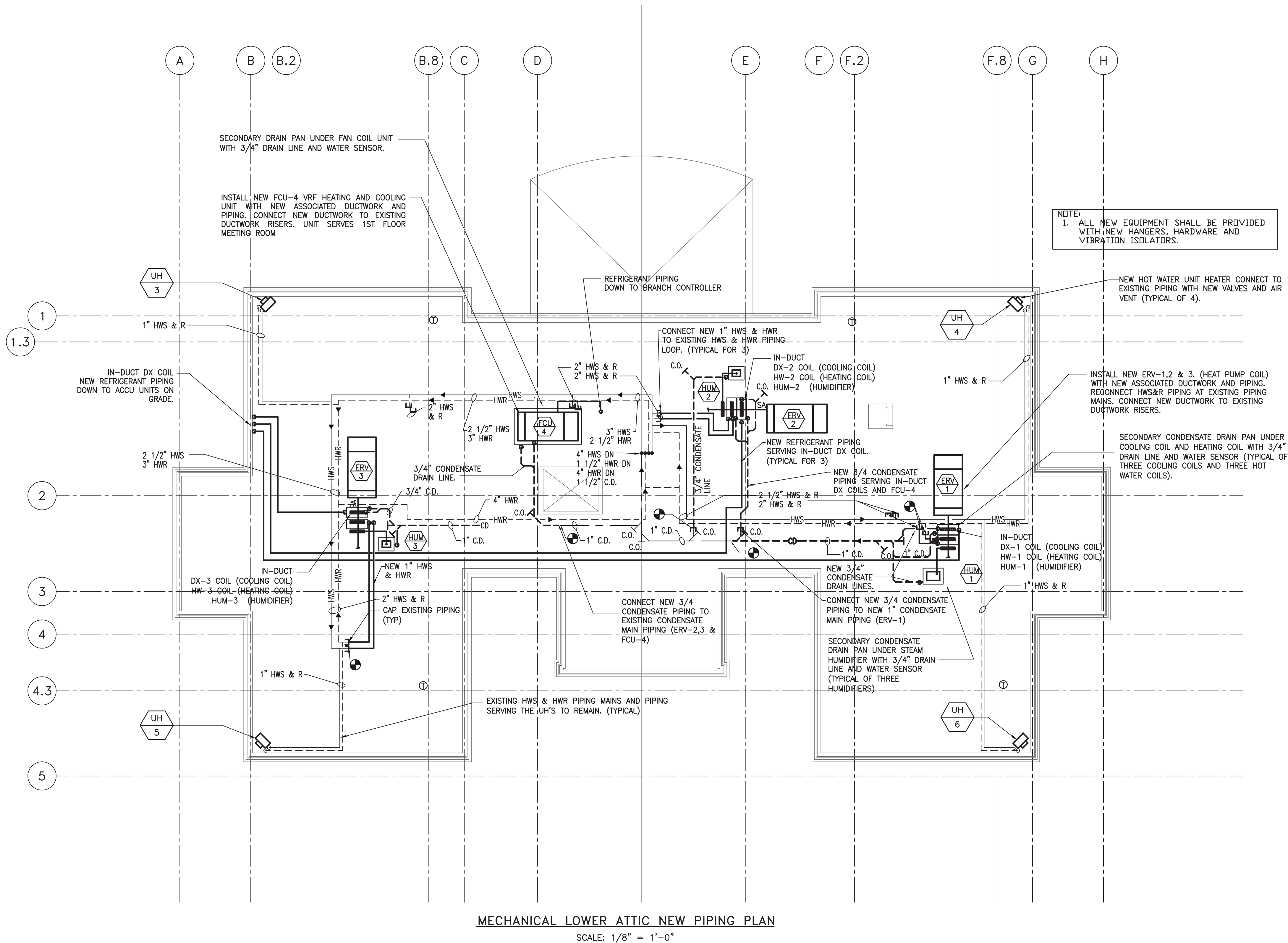
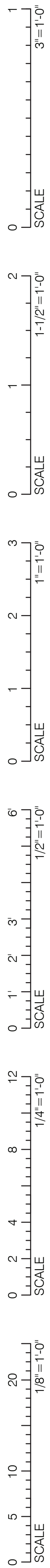
UNIT No.	MANUFACTURER & MODEL No.	COOLING CAP (MBH)	OAT°F	ELECTRICAL CHARACTERISTICS				COND FAN RLA	COND FAN LRA	COMP RLA	COMP LRA	REMARKS
				VOLT	PH	MCA	MOP					
ACCU-4	TRANE 4TTR3018H1000N	31.83	95	208/230	1	12	20	0.60	----	9	63	
ACCU-5		30.19							----			
ACCU-6									----			

NOTE:
CONDENSING UNITS SHALL BE PROVIDED WITH LOW AMBIENT COOLING USING THERMAL EXPANSION VALVE AND EVAPORATOR DEFROST CONTROL.



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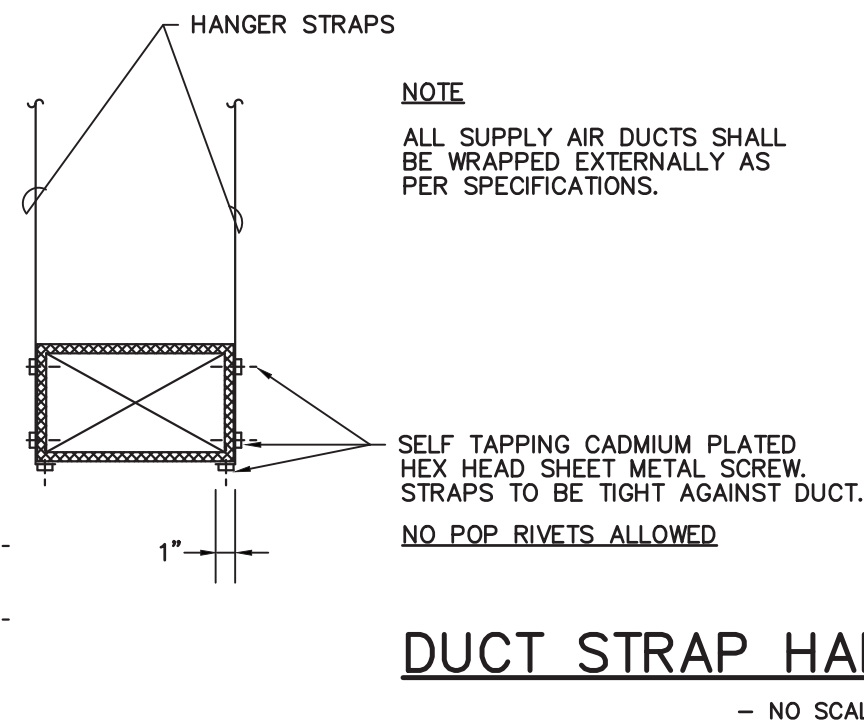
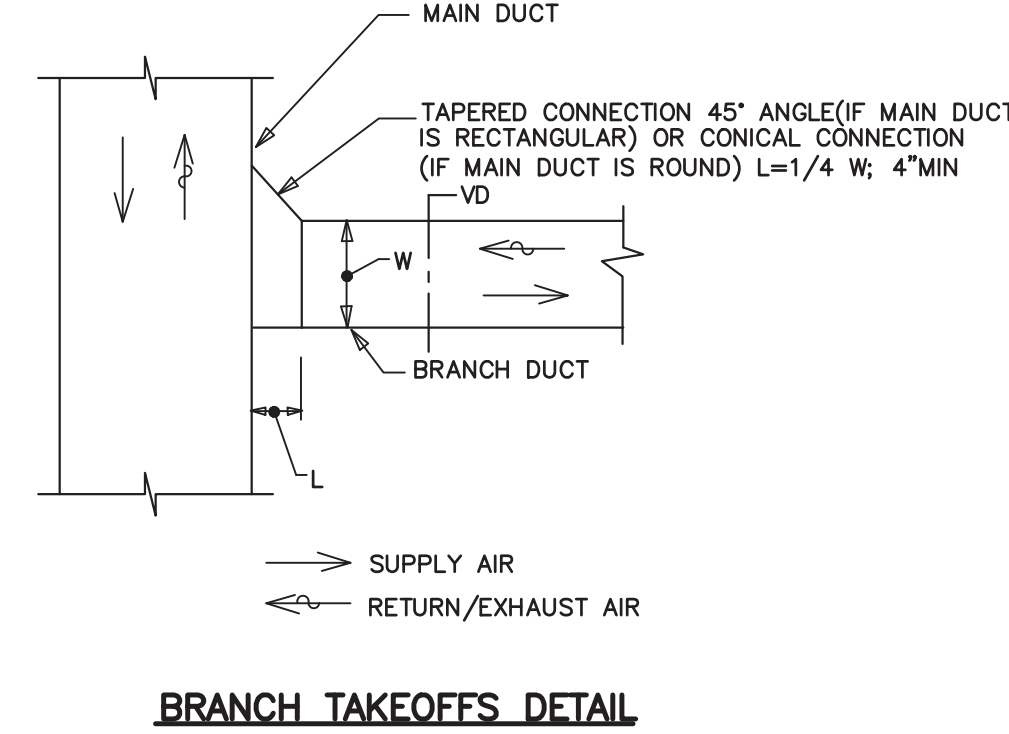
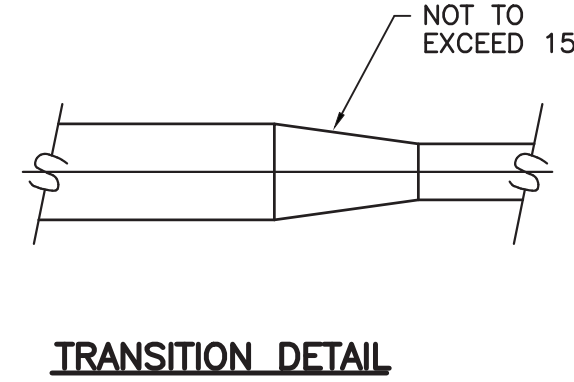
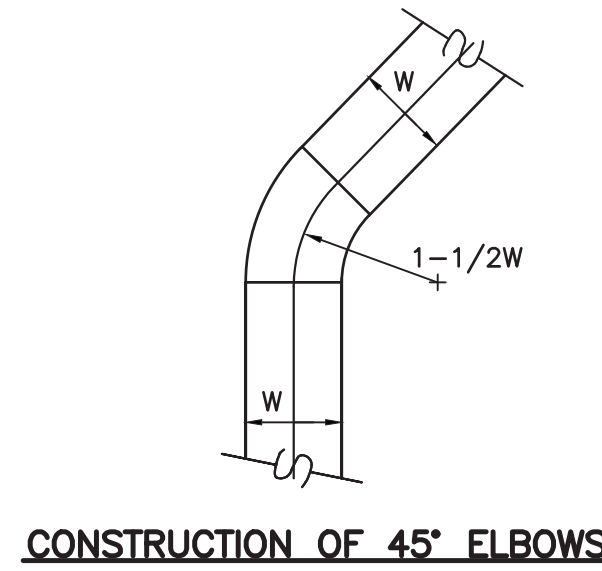
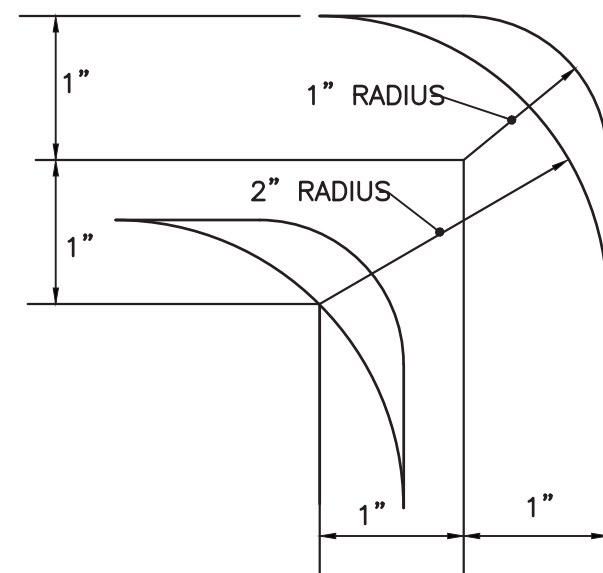
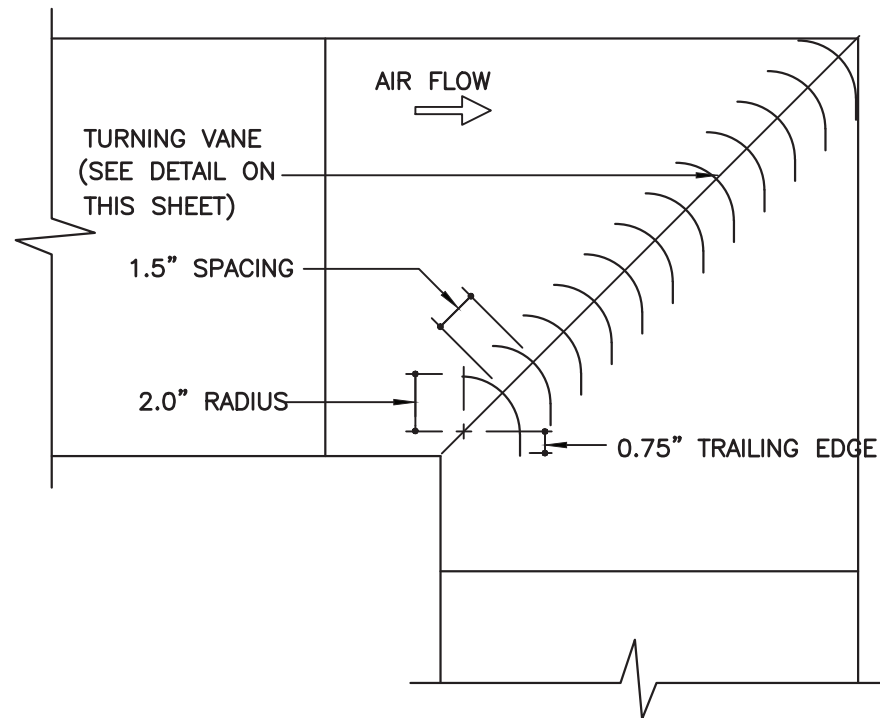
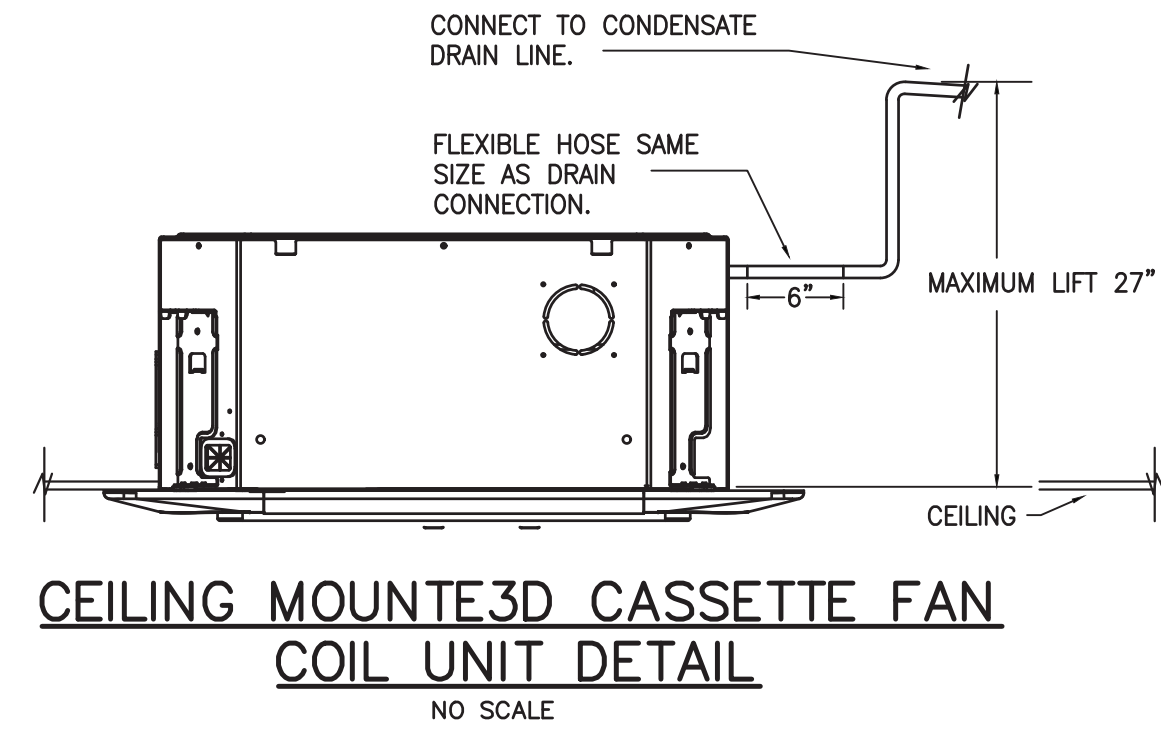
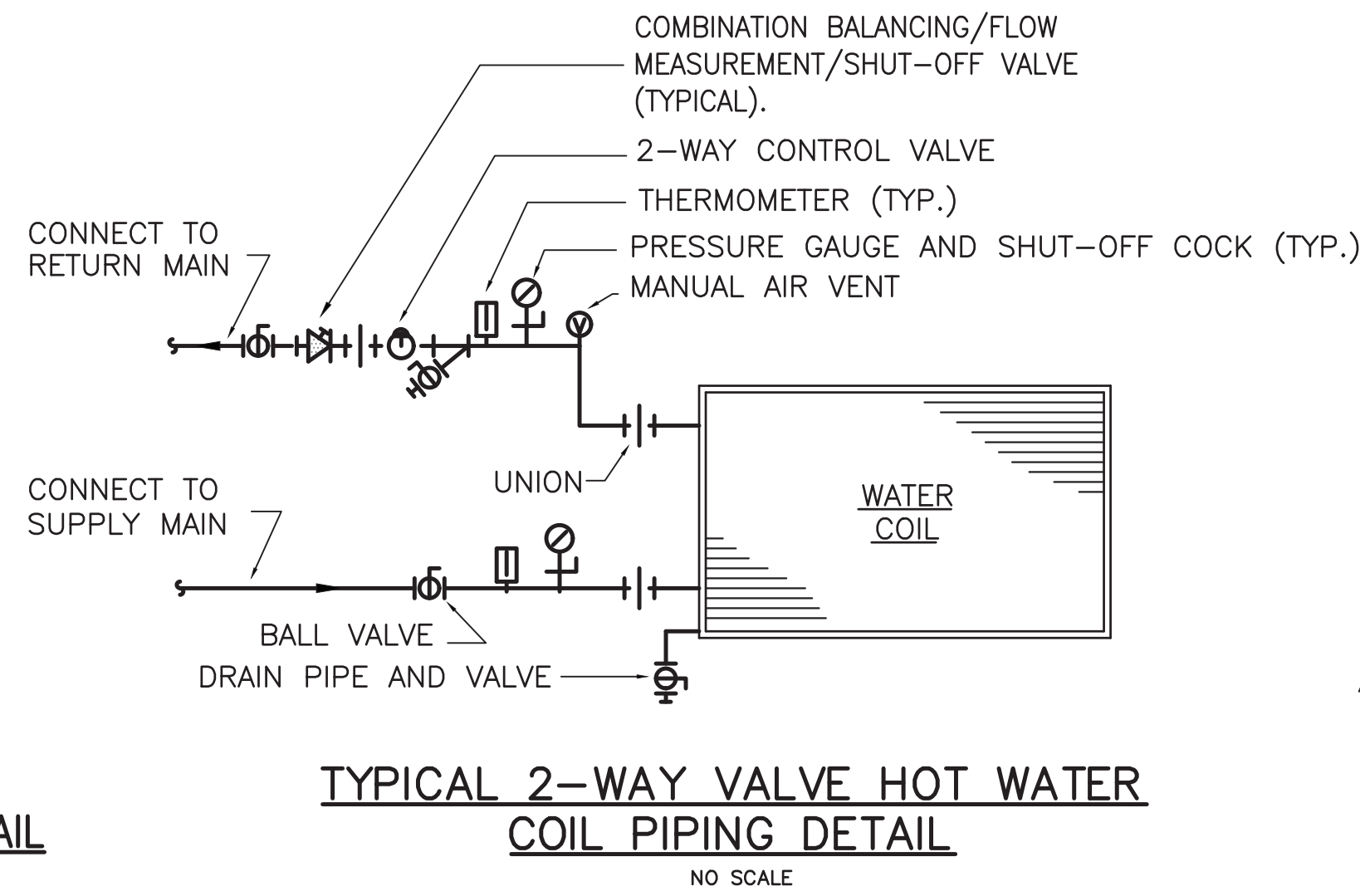
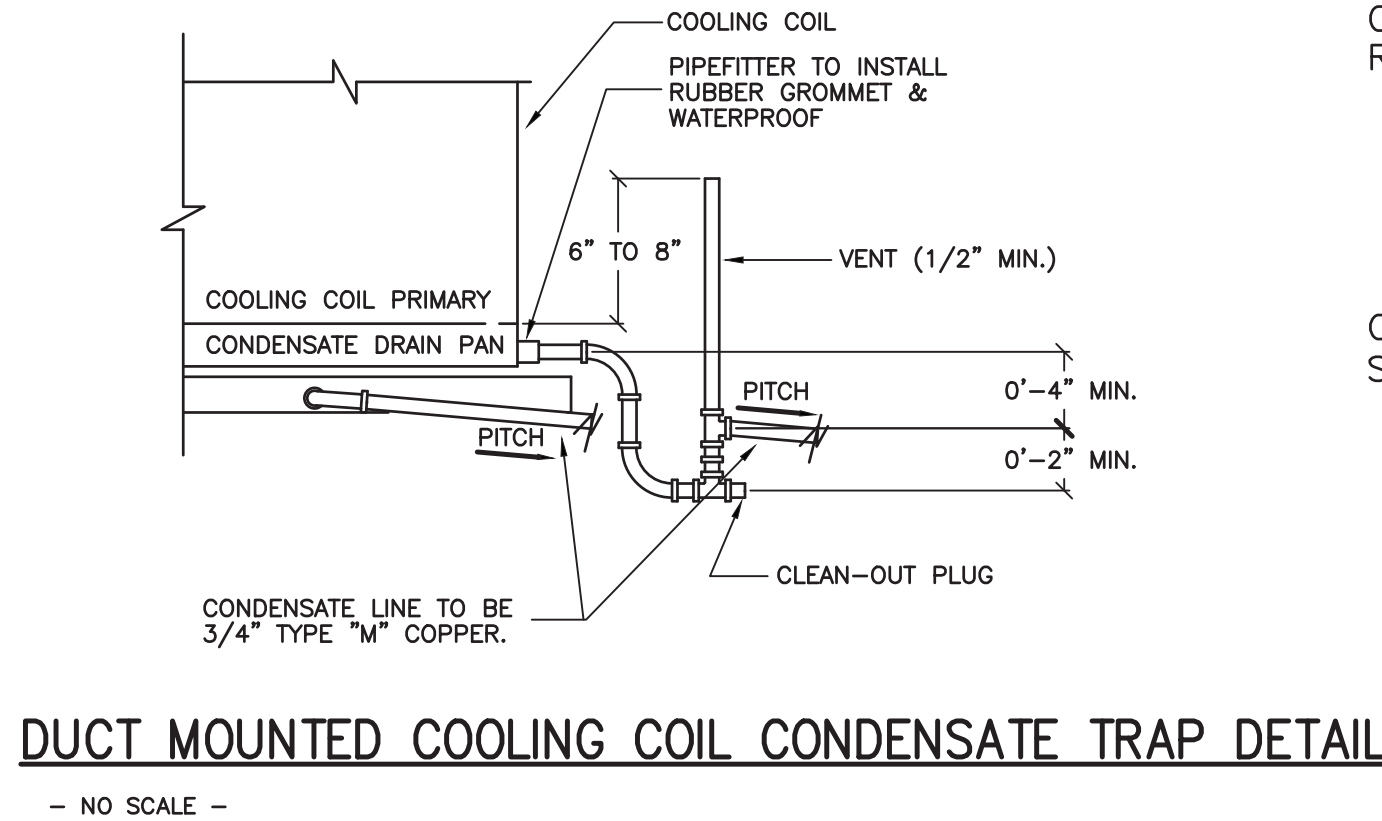
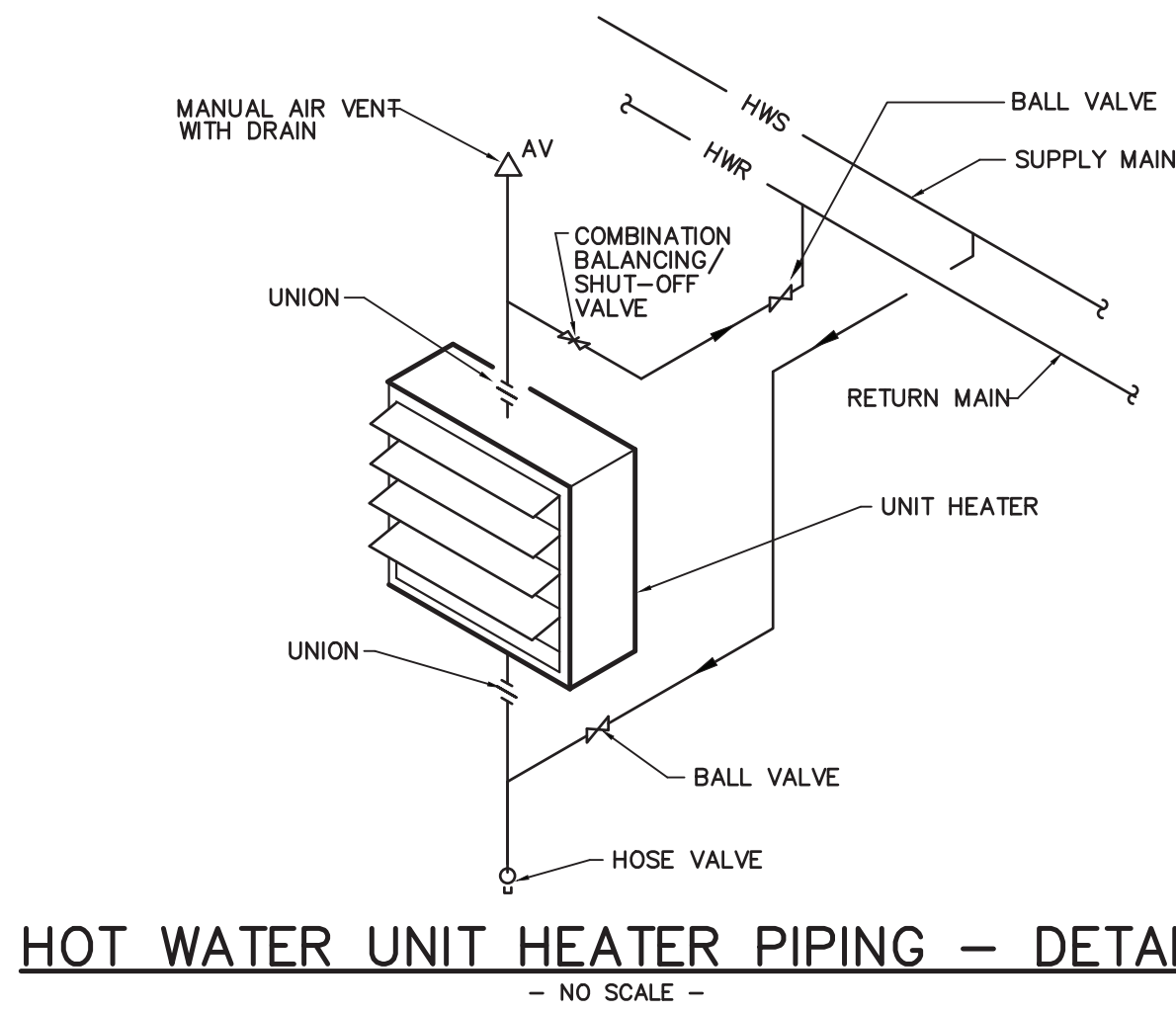
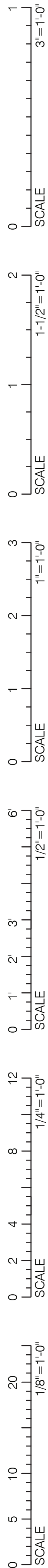
No.	Date	Description
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HVAC ATTIC
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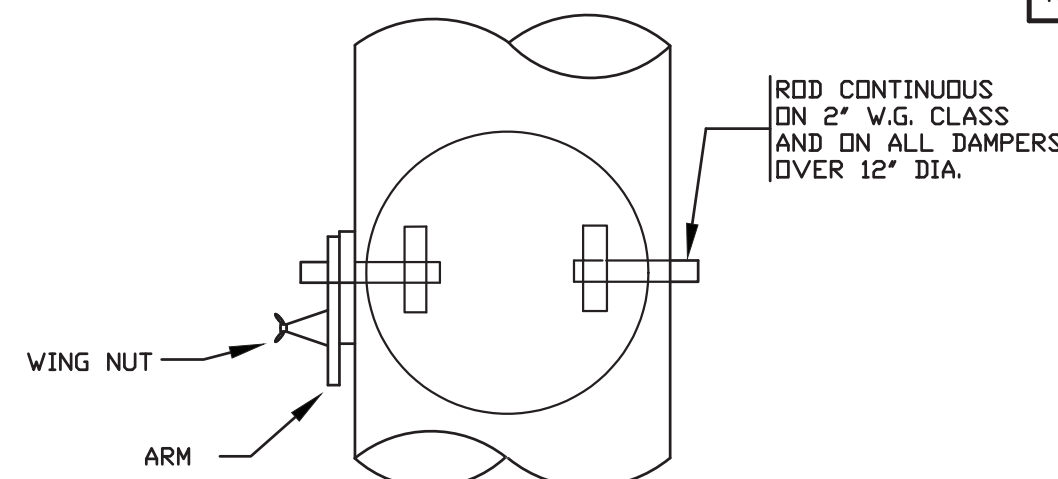
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HANGER SIZES FOR RECTANGULAR DUCT		
LONGEST DIM. OF DUCT	HANGER STRAPS	MAXIMUM SPACING
UP THRU 60"	1" X 18 GA.	10'-0"
61" THRU 96"	1-1/2" X 18 GA.	8'-0"

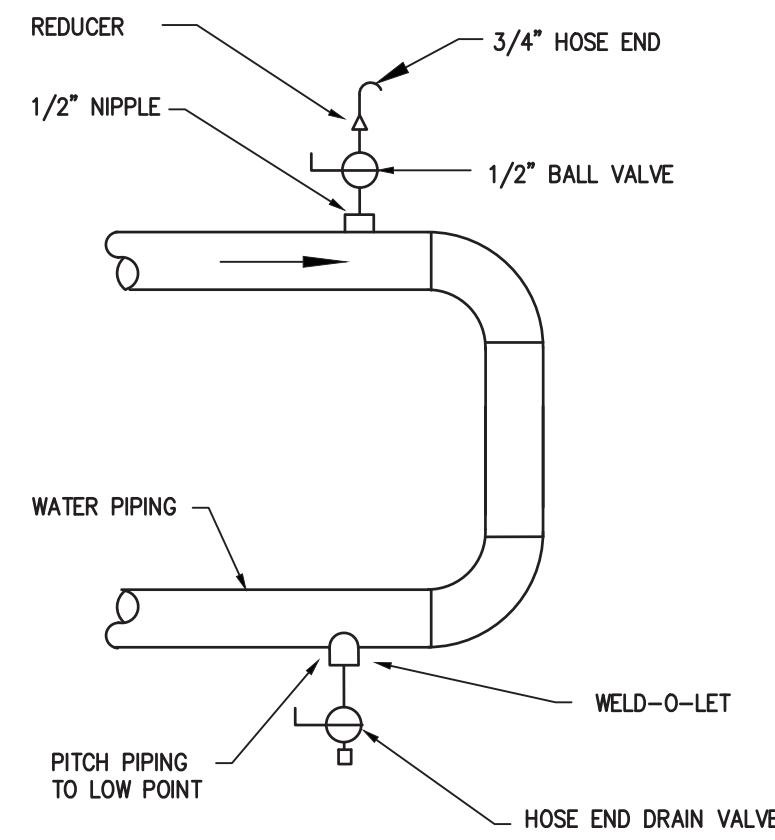
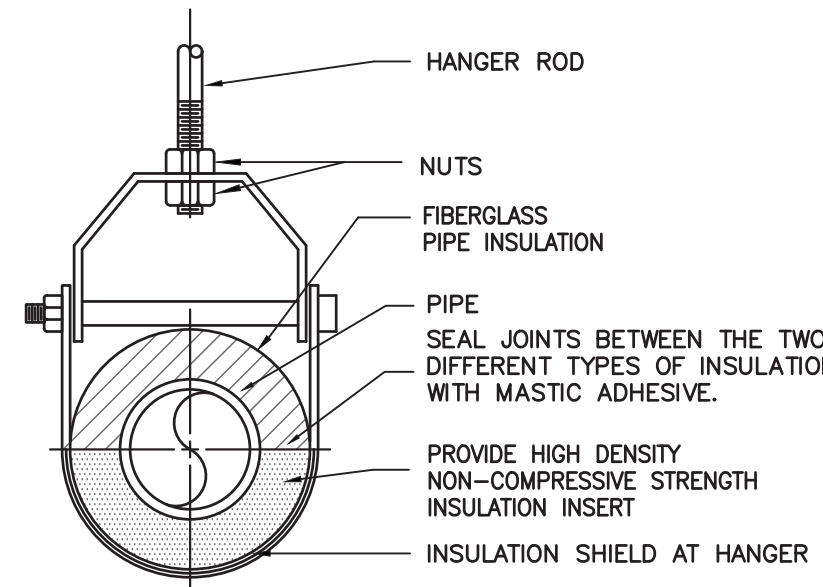
DUCT CONSTRUCTION DETAILS

- NO SCALE -

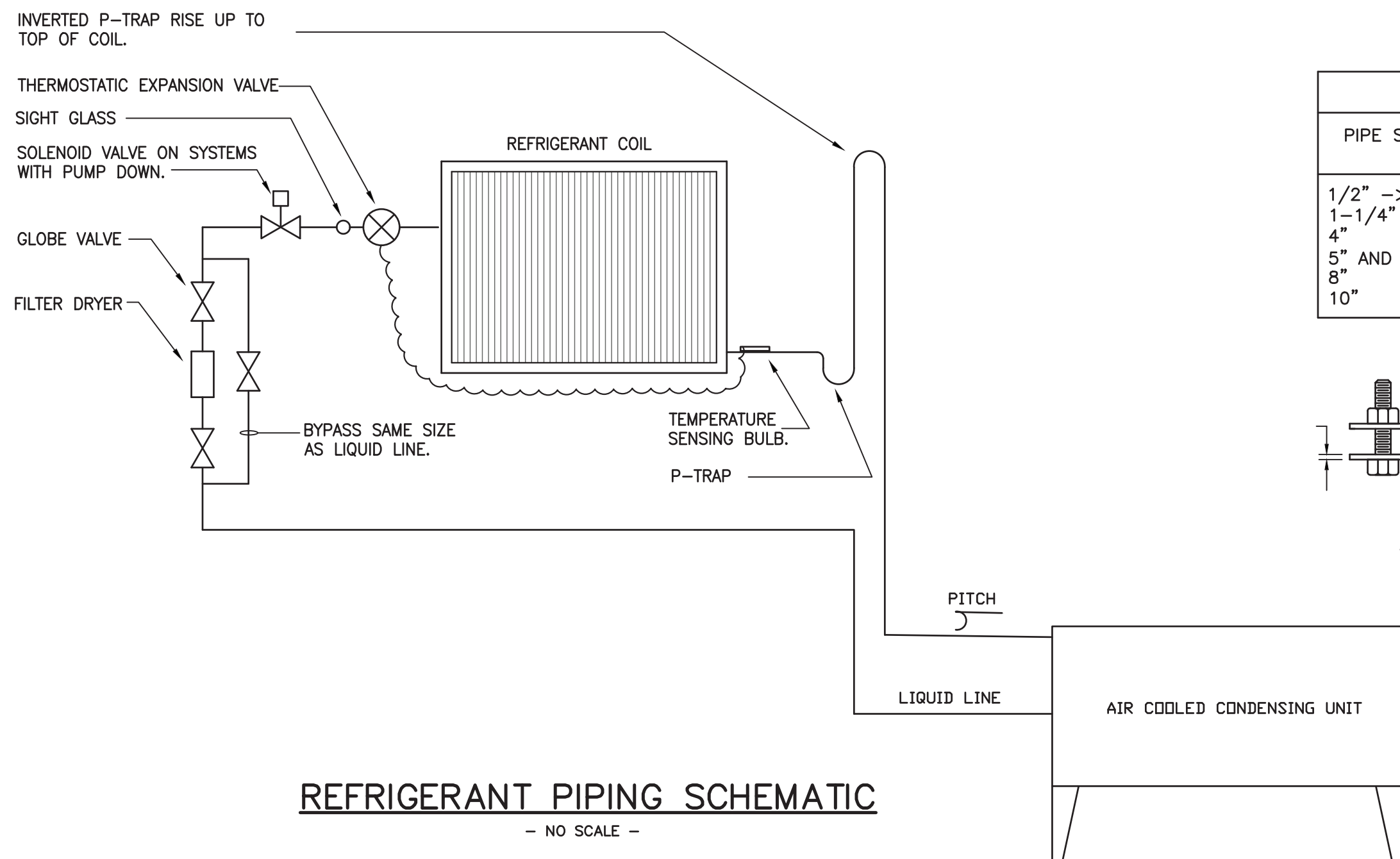


MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET													
NOM. SIZE	THRU 3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	14"
PIPE	7 FT.	7	7	9	10	11	12	14	14	14	20	20	20
TUBING	5 FT.	6	7	8	8	9	10	12	12	14	16	-	-

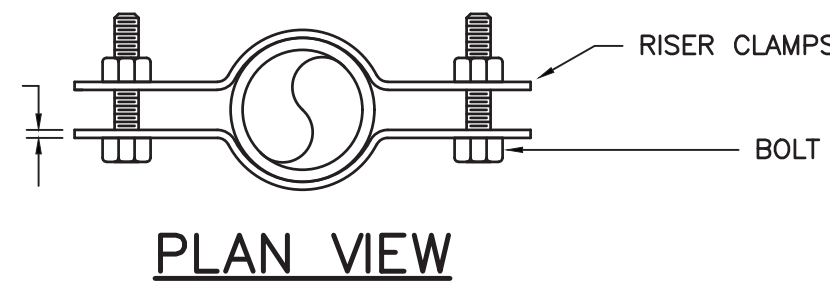
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



- NOTES:
1. VENT ALL HIGH POINTS AS INDICATED ABOVE.
 2. PIPE DISCHARGE TO DRAIN.

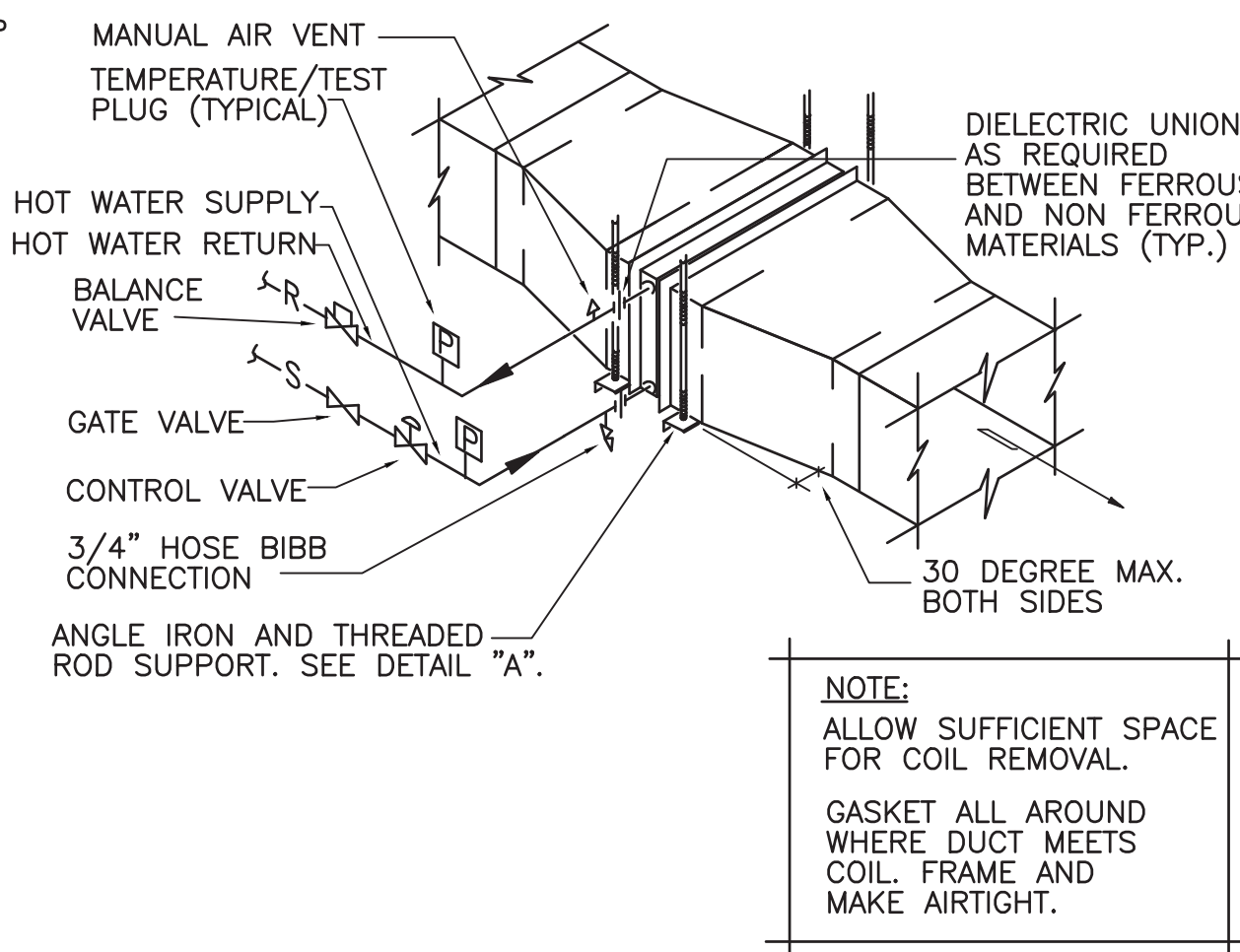
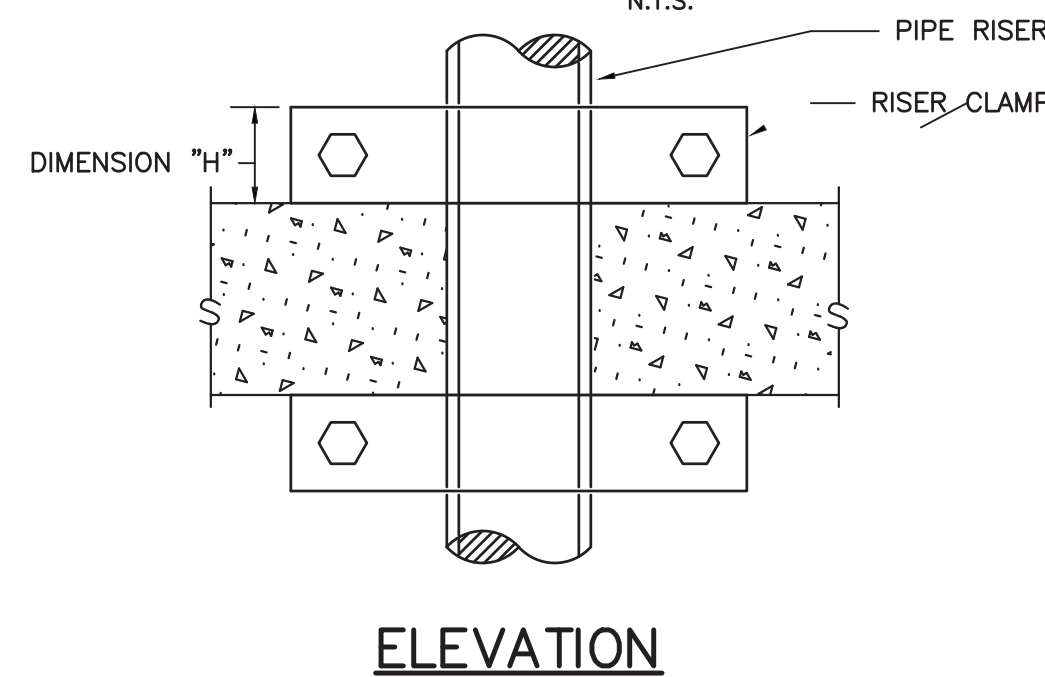


RISER CLAMP DATA		
PIPE SIZE	BOLT DIA.	CLAMP SIZE H x t
1/2" -> 1"	3/8"	1-1/4" x 3/16"
1-1/4" -> 3"	3/8"	1-1/4" x 1/4"
4"	1/2"	1-1/2" x 1/4"
5" AND 6"	5/8"	2" x 1/4"
8"	5/8"	2 x 3/8"
10"	5/8"	2" x 1/2"



RISER CLAMP DETAIL

-NO SCALE-



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GENERAL SPECIFICATIONS

- CONDITIONS OF THE CONTRACT AND DIVISION 1, GENERAL REQUIREMENTS APPLY TO WORK SHOWN ON THESE DRAWINGS. EXAMINE DRAWINGS AND OTHER SPECIFICATIONS FOR REQUIREMENTS THAT AFFECT WORK SHOWN ON THESE DRAWINGS.
- PROVIDE ITEMS REFERRED TO IN SINGULAR NUMBER IN CONTRACT DOCUMENTS IN QUANTITIES NECESSARY TO COMPLETE WORK.
- VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED. REPORT ADVERSE CONDITIONS IN WRITING TO ARCHITECT. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS INCLUDING PREPARATORY WORK DONE BY OTHERS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT AS SHOWN ON DRAWINGS. COORDINATE ELECTRICAL WORK WITH WORK SHOWN ON THESE DRAWINGS.
- GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
- PERFORM WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION.
- MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CSM APPROVED FOR INTENDED SERVICE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE.
- MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE, CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUESTIONS FOR PAYMENT ARE SUBMITTED.
- GUARANTEE WORK IN WRITING FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER.
- SUBMIT GUARANTEE TO ARCHITECT BEFORE FINAL PAYMENT. STATEMENT OF GUARANTEE REQUIREMENTS SHALL NOT BE INTERPRETED TO LIMIT OWNER'S RIGHTS UNDER LAW AND THIS CONTRACT.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT SHOWN ON PLANS, AND VICE VERSA, AS IF EXPRESSLY REQUIRED ON BOTH.
- UTILIZE MOLDED CASE CIRCUIT BREAKERS. MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AMPS SYMMETRICAL AT 240 VOLTS, AND 14,000 AMPS SYMMETRICAL AT 480 VOLTS.
- ADDRESS QUESTIONS REGARDING DRAWINGS TO ARCHITECT IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, ARCHITECT INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
- ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE.
- ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE.
- LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL DRAWINGS.
- ALL RACEWAY RUNNING THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
- CONDUIT HOMERUNS SHOWN ON THE DRAWING WITH MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL NOT INSTALL MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS DONE SO STRICTLY BY THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE STATE.
- THE ELECTRICAL CONTRACTOR SHALL CONSULT AND COOPERATE WITH CONTRACTORS OF OTHER TRADES TO AVOID ANY INTERFERENCE IN THE INSTALLATION OF THEIR RESPECTIVE EQUIPMENT. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT
- BRANCH CIRCUIT WIRING MAY NOT BE SHOWN GRAPHICALLY ON DRAWINGS AND MAY BE INDICATED BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT INDICATED GRAPHICALLY. PHASE BALANCE ALL PANELBOARDS IN FIELD. CIRCUIT NUMBERS ARE DIAGRAMMATIC, UTILIZE AVAILABLE SPACE OR PROVIDE ADDITIONAL BREAKERS AND PANELBOARDS AS NECESSARY.
- ALL NEW WIRING SHALL BE TYPE THHN/THWN RATED 75-90°C, 600V. WET-DRY LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG SOLID COPPER. BRANCH CIRCUITS LONGER THAN 150 FEET FOR 120 VOLTS OR 250 FEET FOR 277 VOLTS SHALL BE AT LEAST NO. 10 AWG FROM PANEL TO LAST OUTLET.
- ALL NEW EXPOSED INTERIOR WIRING ABOVE 8'-0" NOT EXPOSED TO DAMAGE SHALL BE INSTALLED IN ELECTRIC METALLIC TUBING. ALL WIRING IN CONCRETE SLABS OR EXPOSED IN ROOM BELOW 8'-0" OR EXPOSED TO DAMAGE SHALL BE INSTALLED IN RIGID STEEL CONDUIT. EXTERIOR WIRING SHALL BE IN GALVANIZED RIGID METALLIC CONDUIT.
- INTERRUPTIONS TO EXISTING ELECTRIC SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE ARCHITECT OR OWNER. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS, TWENTY-FOUR (24) HOUR NOTICE IS REQUIRED.
- ALL GROUNDING SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE STATE OF MASSACHUSETTS.
- ALL FIREPROOFING FOR ELECTRICAL PENETRATIONS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- SYSTEM FEEDERS AND BRANCH CIRCUITS THAT PASS THROUGH ALTERED AREAS AND SERVE OTHER AREAS SHALL BE MAINTAINED.
- PROVIDE NEW TYPED IDENTIFICATION DIRECTORY IN PANELBOARDS INDICATING CIRCUIT FUNCTION OR EQUIPMENT SERVED. LABEL ALL ELECTRICAL PANELS, DISCONNECT SWITCHES AND OTHER EQUIPMENT WITH ENGRAVED VINYL PLATES. NAMEPLATE LETTERING SHALL BE 1/4" MINIMUM.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY (HD). SIDE OPERATED WITH INTERLOCKING COVER, G.E., SQUARE "D", CUTLER HAMMER OR SIEMENS OR EQUAL.
- ALL WIRING (LOW VOLTAGE, TEL/DATA, FIRE ALARM, POWER BRANCH CIRCUIT) SHALL BE PLENUM RATED; NO EXCEPTIONS. NON-PLENUM RATED CABLES OF ANY KIND SHALL NOT BE PROVIDED.
- PROVIDE UL LISTED MOLDABLE PUTTY PADS TO SEAL ANNULAR SPACES/PENETRATIONS AROUND ALL JUNCTION BOXES.

POWER NOTES

- ALL CONDUIT, WIRING AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST STANDARDS OF THE NATIONAL & STATE ELECTRICAL CODES AND ANY APPLICABLE LOCAL REGULATIONS.
- ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN. ALL CONDUIT RUNS SHALL BE RIGIDLY SUPPORTED.
- NO CONDUIT SMALLER THAN 3/4 INCH ELECTRICAL TRADE SIZE SHALL BE USED, UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT TO MAKE INSTALLATION COMPLETE IN EVERY DETAIL UNDER THIS CONTRACT WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS.
- WIRING DEVICES SHALL BE TAMPER RESISTANT GRADE IN ACCORDANCE WITH NEC ARTICLE 406.11 AND ASSEMBLY SUBSETS LISTED IN 518.2, 20 AMP, WITH SMOOTH NYLON DEVICE PLATES AS MANUFACTURED BY HUBBELL, OR EQUAL. COLOR TO MATCH EXISTING OR AS APPROVED BY ARCHITECT.
- CONDUCTORS AND CABLE SHALL BE MINIMUM #12 AWG, 600 VOLT, COPPER WITH TYPE THHN/THWN INSULATION. PROVIDE SEPARATE GREEN GROUND IN ALL FEEDERS. WIRE SIZE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. COLOR CODE CONDUCTORS BLACK, RED, BLUE, WITH WHITE NEUTRAL AND GREEN GROUND EXCEPT AS NOTED FOR 120 VOLT
- MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - CONVENIENCE RECEPTACLE (GENERAL), 1'-6" FROM FLOOR TO CENTERLINE.
 - CONVENIENCE RECEPTACLE (OFFICE), 1'-6" FROM FLOOR TO CENTERLINE.
 - TELEPHONE OUTLETS, 1'-6" FROM FLOOR TO CENTERLINE.
- PROVIDE SEPARATE HOT, GROUND AND NEUTRAL CONDUCTOR FOR ALL CIRCUITS CONNECTED TO ARC-FAULT CIRCUIT BREAKERS.

GENERAL NOTES

- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES.
- ALL FLOOR, MASONRY WALLS AND STRUCTURAL CEILING PENETRATIONS SHALL BE SLEEVED.
- PROVIDE FIRE/MOISTURE SEAL FOR WALL, FLOOR OR CEILING PENETRATIONS.
- DO NOT LAY CABLES OR RACEWAY ON, OR SUPPORT FROM SUSPENDED CEILING OR PIPING AND DUCTWORK.
- OUTLET BOXES SHALL BE MOUNTED FLUSH. CONDUIT SHALL BE RUN CONCEALED. WHERE WALLS ARE BLOCK, DEVICES AND WIRING SHALL BE SURFACE MOUNTED. PROVIDE WIREMOLD OR EQUAL TO SURFACE MOUNTED RACEWAY WITH FINISHED BOXES.
- ALL WIRING WITHIN UTILITY CLOSETS MAY BE IN SURFACE MOUNTED CONDUIT. EMT MAY BE UTILIZED.
- FLEXIBLE CONDUIT CONNECTIONS SHALL BE A MAXIMUM OF 6'-0".
- MC TYPE CONDUCTOR WITH INTEGRAL GROUND WIRE MAY BE UTILIZED FOR POWER AND LIGHTING CIRCUITS. MC CABLE SHALL BE UTILIZED ONLY WHERE COMPLETELY CONCEALED.
- STEEL OR FIRE-RATED ELECTRICAL BOXES (SWITCHES, OUTLETS, JUNCTION BOXES, ETC.) SHALL BE PROVIDED AND INSTALLED IN ALL FIRE RATED ASSEMBLIES AS IN ACCORDANCE WITH BUILDING AND ELECTRICAL CODES. UL LISTED MOLDABLE PUTTY PADS OR FIREBLOCK/SPRAY FOAM INSULATE SHALL BE USED TO SEAL ALL ANNULAR SPACES/PENETRATIONS AROUND OUTLET BOXES. FIRE RATED ASSEMBLIES INCLUDE EXTERIOR WALLS, FIRE-RATED WALLS, FLOOR/CEILING ASSEMBLIES AND ROOF/CEILING ASSEMBLIES.

DEMOLITION NOTES

- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE FULL EXTENT OF THE SCOPE OF DEMOLITION. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE HVAC, PLUMBING AND FIRE PROTECTION PLANS. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THE ARCHITECTURAL DEMOLITION LIMITS TO FULLY COMPLY WITH VARIOUS REQUIREMENTS DEFINED BY THESE NOTES.
- THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BIDS TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED DURING THE EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE BUT NOT BE LIMITED TO DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO REMAIN OR TO BE SALVAGED.
- THE ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN PANELBOARDS IDENTIFIED FOR REMOVAL SHALL BE TRACED AND LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED.
- THE ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH CIRCUITS, FEEDERS AND SYSTEM COMPONENTS, WHICH ARE TO REMAIN WITHIN THE AREA OF DEMOLITION SCOPE. THERE SHALL BE NO INTERRUPTION OF SERVICE TO ANY AREA OUTSIDE THE SCOPE LIMITS WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE. EXISTING EQUIPMENT TO REMAIN SHALL BE LEFT IN A CODE COMPLIANT MANNER.
- THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE. RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE FOR PATCHING BY OTHERS. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.
- THE ELECTRICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). TEMPORARILY SUPPORTED ITEMS SHALL BE PERMANENTLY SUPPORTED AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.
- ALL REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL RETAINED ITEMS PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. REUSE OF EXISTING FIRE ALARM SYSTEM RACEWAYS SHALL NOT BE ALLOWED. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION. DEMOLITION OF THE EXISTING SYSTEM SHALL NOT COMMENCE UNTIL THE NEW SYSTEM HAS BEEN COMPLETELY INSTALLED, TESTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ALL DEMOLITION SCOPE ASSOCIATED WITH LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO TELEPHONE, DATA, SECURITY, PAGING, CCTV, ETC. SHALL BE INCLUDED IN THIS CONTRACT.
- REMOVED FLUORESCENT AND HID LAMPS AND BATTERIES SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFF'S PRIOR TO APPLICATION FOR FINAL PAYMENT.
- ALL BALLAST IN LIGHTING FIXTURES TO BE DISPOSED SHALL BE VERIFIED TO BE PCB FREE. ALL BALLAST MANUFACTURED PRIOR TO 1979 AND NOT LABELED AS PCB FREE SHALL BE CONSIDERED TO CONTAIN PCBs. PROVIDE WRITTEN VERIFICATION TO THE OWNER'S REPRESENTATIVE THAT CONFIRMS PCB FREE WASTE. WHERE PCB FREE WASTE CANNOT BE VERIFIED, BALLAST SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE, WITH PCB COMPONENTS ELIMINATED BY A HIGH TEMPERATURE INCINERATION. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFF'S PRIOR TO APPLICATION FOR FINAL PAYMENT. ALL HANDLING SHALL CONFORM TO EPA REQUIREMENTS. PROVIDE BREAKOUT COST FOR THIS SCOPE.

ABBREVIATIONS

A/AMP	AMPERE	IMC	INTERMEDIATE METALLIC CONDUIT
AC	ALTERNATING CURRENT	JB	JUNCTION BOX
AF	AMPERE FRAME	KVA	KILOVOLT-AMPERE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFG	ABOVE FINISHED GRADE	LITG	LIGHTING
AC	AMPERE INTERRUPTING CAPACITY	PHR	POWER
AL	ALUMINUM	MCS	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MEC	MASSACHUSETTS ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	MTO	MOUNTING
C	CONDUIT	MTD	MOUNTED
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CU	COPPER	NS	NON-SYSTEM
CL	CENTERLINE	NTS	NOT TO SCALE
DC	DIRECT CURRENT	No., #	NUMBER
DE	DUAL ELEMENT	PC	PLUMBING CONTRACTOR
DWG	DRAWING	PPM	REVOLUTIONS PER MINUTE
EC	ELECTRICAL CONTRACTOR	RMS	ROOT MEAN SQUARE VALUE
EMH	ELECTRICAL MAN-HOLE	RGS	RIGID STEEL CONDUIT
EW	ELECTRIC WATER COOLER	SF	SQUARE FOOT
ELMT	ELECTRIC METALLIC CONDUIT	SN	SOLID NEUTRAL
FLMT	FLEXIBLE LIQUID TIGHT METALLIC TUBING	ST	SHUT TRIP CIRCUIT BREAKER
GC	GENERAL CONTRACTOR	SWBD	SWITCHBOARD
GND	GROUND	TYP	TYPICAL
GF	GROUND FAULT CIRCUIT BREAKER	V	VOLTS
GFI	GROUND FAULT INTERRUPTING	VA	VOLT-AMPERE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	WP	WEATHERPROOF

LIGHTING NOTES

- ALL CONDUIT, FIXTURES AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN.
- ALL LIGHTING FIXTURE SPACING DIMENSIONS AND MOUNTING HEIGHTS ARE RECOMMENDED LOCATIONS. SLIGHT VARIATIONS WHERE NECESSARY TO AVOID INTERFERENCE SHALL BE DETERMINED IN THE FIELD.
- MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
 - LIGHT SWITCHES, 4'-0" FROM FLOOR TO CENTERLINE.
 - LIGHTING PANELBOARDS, 6'-0" FROM FLOOR TO TOP
 - LIGHT FIXTURES -- SEE LIGHTING FIXTURE SCHEDULE, MOUNTING HEIGHT OF FIXTURE IS MEASURED TO BOTTOM OF REFLECTOR.
- WHERE REQUIRED, ADDITIONAL SUPPORT STEEL FOR THE LIGHTING INSTALLATION SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEISMIC RESTRAINTS SHALL BE INCLUDED AS PER STATE BUILDING CODE.
- PROVIDE SEPARATE UN-SWITCHED NEUTRAL TO ALL EXIT SIGNS, EMERGENCY BATTERY UNITS AND EMERGENCY LIGHT FIXTURES CONTAINING EMERGENCY PACKS OR BALLASTS.
- FOR RENOVATION PROJECTS, PROVIDE NEW BRANCH CIRCUITRY BETWEEN ALL NEW FIXTURES BEING PROVIDED, UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL EXISTING FIXTURES TO REMAIN SHALL BE CLEANED AND RE-LAMPED.
- FIRE-RATED BOXES/ENCLOSURES FOR RECESSED LIGHTING FIXTURES SHALL BE PROVIDED AND INSTALLED IN FIRE-RATED ASSEMBLIES AS IN ACCORDANCE WITH BUILDING AND ELECTRICAL CODES. FIRE-RATED ASSEMBLIES INCLUDE: FIRE-RATED WALLS, FLOOR/CEILING ASSEMBLIES AND ROOF/CEILING ASSEMBLIES. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE-RATED ASSEMBLIES.

BRANCH CIRCUIT AND FEEDER SYMBOLS

- BRANCH CIRCUIT OR FEEDER CONCEALED UNLESS OTHERWISE NOTED. BRANCH CIRCUIT DIAGONAL LINES INDICATE NUMBER OF CONDUCTORS. GROUND WIRE(S) NOT INDICATED. MINIMUM SIZE CONDUCTOR #12 AWG AND 3/4" CONDUIT, UNLESS OTHERWISE NOTED
- 4#1#6G-1½"C INDICATES (3) #1 AWG(PHASE), (1)#1 AWG(NEUTRAL), (1) #6 GROUND IN A 1-1/2" CONDUIT
- PP1-1 20A/1P HOMERUN TO PANELBOARD "P1" CIRCUIT NUMBER 1. DIAGONAL LINES INDICATE (1) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERSTOOD.
- PP1-1,3 20A/1P HOMERUN TO PANELBOARD "P1" CIRCUIT NUMBER 1 & 3. DIAGONAL LINES INDICATE (2) PHASE AND (2) NEUTRAL CONDUCTOR. (2) GROUNDING CONDUCTOR UNDERSTOOD.

SWITCHING SYMBOLS

- S_o SINGLE POLE SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, "o" DENOTES FIXTURE SWITCH CONTROL
- S₃ THREE WAY SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, "o" DENOTES FIXTURE SWITCH CONTROL
- S₄ FOUR WAY SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, "o" DENOTES FIXTURE SWITCH CONTROL
- S_M MANUAL MOTOR STARTER, RATED 20A, 250V, COORDINATE MOUNTING HEIGHT IN FIELD, MOUNTING HEIGHT SHALL NOT EXCEED 6'-7" AFF

LIGHTING FIXTURE SYMBOLS

- A LIGHTING FIXTURE, CEILING/SURFACE/RECESSED/PENDANT OR WALL MOUNTED. "A" DENOTES LIGHTING FIXTURE TYPE (SEE FIXTURE SCHEDULE), "2" DENOTES CIRCUIT NUMBER, "o" DENOTES SWITCH CONTROL
- B LIGHT FIXTURE, CEILING/SURFACE/RECESSED OR PENDANT MOUNTED. "B" DENOTES LIGHTING FIXTURE TYPE. "4" DENOTES CIRCUIT NUMBER, "o" DENOTES SWITCH CONTROL
- LIGHTING FIXTURE CONNECTED TO THE EMERGENCY GENERATOR, OR CONTAINS AN EMERGENCY BALLAST. SEE LIGHTING NOTE 5.
- EXIT SIGN, SHADED REGION INDICATES FACE

EXISTING EQUIPMENT DESIGNATIONS

- X EXISTING TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS AND LABEL BREAKER AS SPARE
- XM EXISTING TO REMAIN.
- XN EXISTING EQUIPMENT TO BE REPLACED WITH NEW. CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT.
- XR EXISTING EQUIPMENT TO BE RELOCATED. JUNCTION AND EXTEND EXISTING CONDUIT AND CONDUCTORS.
- XL NEW LOCATION FOR EXISTING EQUIPMENT. JUNCTION AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED.

OCCUPANCY SENSORS

- WALL MOUNTED OCCUPANCY SENSOR, 180°, 300SF COVERAGE (20" X 25"), PHILIPS LIGHTING CONTROLS No. ITS2U-COLOR OR EQUAL
- CEILING MOUNTED OCCUPANCY SENSOR, 360° TWO-SIDED, 1950SF COVERAGE (50" DIAMETER), PHILIPS LIGHTING CONTROLS No. ITSCS (FOR PARTIAL COVERAGE APPLICATIONS, A PROVIDED MASK CAN BE TRIMMED TO ADJUST COVERAGE) OR EQUAL
- COVERAGE DIMENSIONS APPLY TO DEVICE BEING CENTERED. ACTUAL COVERAGE'S CAN VARY ON THE SHAPE AND USE OF APPLICABLE SPACE. COVERAGE MAY BE REDUCED IF DEVICE IS MOUNTED GREATER THAN 12 FEET HIGH. SENSORS REQUIRE RELAY PACKS, PHILIPS LIGHTING CONTROLS No. ITSRRP1U (SINGLE CIRCUIT), ITSRRP2 (TWO CIRCUIT) OR ITSRRP4 (FOUR CIRCUIT).

MISCELLANEOUS

- MECHANICAL EQUIPMENT TAG, REFER TO MECHANICAL SCHEDULE



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RECEPTACLES AND OUTLETS

- 5 DUPLEX CONVENIENCE TAMPER RESISTANT RECEPTACLE OUTLET, GROUNDING TYPE, RATED 20A, 125V TYPE. "5" DENOTES CIRCUIT NUMBER, MOUNTING HEIGHT 18" TO CENTERLINE AFF
- GROUND FAULT INTERRUPTING OUTLET, RATED 20A, 125V RECEPTACLE, MOUNTING HEIGHT 18" TO CENTERLINE AFF
- DUPLEX CONVENIENCE TAMPER RESISTANT OUTLET, MOUNTING HEIGHT 42" TO CENTERLINE AFF OR 6" ABOVE COUNTER TOP
- GROUND FAULT DUPLEX RECEPTACLE, MOUNTING HEIGHT 42" TO CENTERLINE AFF OR MOUNTED 6" ABOVE COUNTER TOP
- DOUBLE DUPLEX CONVENIENCE OUTLET, MOUNTING HEIGHT 18" TO CENTERLINE AFF
- JUNCTION BOX, COORDINATE MOUNTING HEIGHT WITH ARCHITECT, "F" INDICATES FAN RATED JUNCTION BOX
- FLOOR MOUNTED DUPLEX RECEPTACLE, UTILIZE BRASS COVERPLATE
- TELEPHONE/COMPUTER OR DATA OUTLET (RJ45), FLUSH MOUNTING 18" TO CENTERLINE AFF WITH SINGLE GANG BACK BOX AND COVER PLATE
- FLOOR MOUNTED COMMUNICATIONS OUTLET (RJ45), UTILIZE BRASS COVERPLATE
- DUPLEX CONVENIENCE RECEPTACLE OUTLET FOR MICROWAVE, TV, ETC., COORDINATE MOUNTING HEIGHT WITH ARCHITECT
- POWER POLE
- INDICATES 4"x4" BOX WITH 1" CONDUIT TO ABOVE HUNG CEILING WITH PULL WIRE

MOTOR AND CONTROLS

- 1.5 MOTOR, NUMERAL INDICATES HORSEPOWER
- 3R DISCONNECT SWITCH, NON-FUSIBLE TYPE, RATED 30A/3P, IN NEMA TYPE "1" ENCLOSURE, UNLESS OTHERWISE NOTED. "3R" DENOTES NEMA TYPE ENCLOSURE
- 30A/20A DISCONNECT SWITCH, FUSED TYPE, RATED 30A, 20A FUSE, 3 POLE IN NEMA TYPE "1" ENCLOSURE, UNLESS OTHERWISE NOTED

PANELBOARD AND TERMINAL CABINET

- 120/208VOLT LIGHTING OR POWER PANEL, SURFACE MOUNTED
- 277/480VOLT DISTRIBUTION PANEL, SURFACE MOUNTED
- TELEPHONE TERMINAL 4"x8" 3/4" PLYWOOD BACKBOARD, PAINTED BLACK
- TRANSFORMER, DRY TYPE

FIRE ALARM SYSTEM

- 15 AUDIBLE/VISUAL DEVICE, TOP OF DEVICE MOUNTED NOT LESS THAN 90" AFF AND NOT LESS THAN 6" BELOW FINISHED CEILING
- 15 VISUAL DEVICE, ENTIRE LENS MOUNTED NOT LESS THAN 80" AFF AND NOT MORE THAN 96" AFF
- D,R SMOKE DETECTOR, "D" INDICATES DUCT MOUNTED SMOKE DETECTOR, "R" INDICATES ELEVATOR RECALL, "NS" INDICATES NON-SYSTEM



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No.	Date	Description
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Project: 20049
Drawn by: SWD
Check by: JP
Date: 07/15/2020
Scale:

ELECTRICAL
LEGEND

E0-1

BID SET
07/15/2020

IF THIS SHEET IS NOT 24 X 36 IT IS A REDUCED SCALE PRINT - SCALE ACCORDINGLY



EXISTING PANEL 'MP2A', 225 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE & GND													
INTERRUPTING CAPACITY:			10,000 AMPS RMS SYM			MAIN: 225A M.C.B.			MOUNTING: SURFACE				
LOAD DESCRIPTION		CB	CIRC NO.	KVA LOAD						CIRC NO.	CB	LOAD DESCRIPTION	
				A	B	C	A	B	C				
ERV-1	20A/3P		1	1.32			1.32			2	20A/3P	ERV-2	
			3		1.32			1.32		4			
			5			1.32			1.32	6			
ERV-3	20A/3P		7	1.32			1.00			8	20A/3P	HUM-3	
			9		1.32			1.00		10			
			11			1.32			1.00	12			
HUM-1	20A/3P		13	1.00						14	15A/3P	SPARE	
			15		1.00					16			
			17			1.00				18			
HUM-2	20A/3P		19	1.00						20	20A/1P	EXISTING	
			21		1.00					22			
			23			1.00				24			
EXISTING	20A/1P		25							26	20A/1P	EXISTING	
FCU-4	20A/2P		27		0.10					28	20A/1P	EXISTING	
			29			0.10				30	20A/1P	EXISTING	
PHASE A		6.96	KVA	TOTAL LOAD 21.08 KVA						NOTES:			
PHASE B		7.06	KVA										
PHASE C		7.06	KVA										
* - DENOTES NEW CIRCUIT BREAKER. REMOVE EXISTING TURN OVER TO OWNER AND PROVIDE NEW AS INDICATED													

EXISTING PANEL 'MP2B', 225 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE & GND																
INTERRUPTING CAPACITY:			10,000 AMPS RMS SYM			MAIN: 225A M.C.B.			MOUNTING: SURFACE							
LOAD DESCRIPTION		CB	CIRC NO.	KVA LOAD						CIRC NO.	CB	LOAD DESCRIPTION				
			1	A	B	C	A	B	C							
BI-1, BI-2, BI-3, BI-4		20A/1P	1	0.50				0.20			2	20A/2P	BC-2 AND BC-3			
ATTIC RECEPTACLES		20A/1P	3		0.36				0.20		4					
SPARE		20A/1P	5								6	20A/1P	SPARE			
			7								8					
SPARE		30A/3P	9								10	30A/3P	SPARE			
			11								12					
EXISTING		20A/1P	13								14	20A/1P	EXISTING			
EXISTING		20A/1P	15								16	20A/1P	EXISTING			
		20A/1P	17								18		SPARE			
EXISTING		20A/1P	19					0.25			20					
EXISTING		20A/1P	21						0.25		22	20A/2P	FCU-32,33,34,35			
FCU-18,19,20,21,22		20A/2P	23			0.15				0.25	24					
			25	0.15				0.25			26	20A/2P	FCU-28,29,30,31			
FCU-13,14,15,16,17		20A/2P	27		0.20				0.25		28					
			29			0.20				0.25	30	20A/2P	FCU-23,24,25,26,27			
PHASE A		1.35	KVA	TOTAL LOAD 3.46 kVA						NOTES:						
PHASE B		1.26	KVA													
PHASE C		0.85	KVA													
* - DENOTES NEW CIRCUIT BREAKER. REMOVE EXISTING TURN OVER TO OWNER AND PROVIDE NEW AS INDICATED																

EXISTING PANEL 'PP1B', 225 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE & GND												
INTERRUPTING CAPACITY:			10,000 AMPS RMS SYM			MAIN: 100A M.C.B.			MOUNTING: SURFACE			
LOAD DESCRIPTION	CB	CIRC NO.	KVA LOAD						CIRC NO.	CB	LOAD DESCRIPTION	
			A	B	C	A	B	C				
EXISTING	20A/1P	43							44	20A/1P	EXISTING	
EXISTING	20A/1P	45							46	20A/1P	EXISTING	
EXISTING	20A/1P	47							48	20A/1P	EXISTING	
EXISTING	20A/1P	49							50	20A/1P	EXISTING	
EXISTING	20A/1P	51							52	20A/1P	EXISTING	
EXISTING	20A/1P	53							54	20A/1P	EXISTING	
EXISTING	20A/1P	55							56	20A/1P	EXISTING	
EXISTING	20A/1P	57							58	20A/1P	EXISTING	
EXISTING	20A/1P	59							60	20A/1P	EXISTING	
EXISTING	20A/1P	61							62	20A/1P	EXISTING	
EXISTING	20A/1P	63							64	20A/1P	SPARE	
ACCU-4	20A/2P	65			1.25				66	20A/1P	EXISTING	
		67	1.25						68	20A/1P	SPARE	
ACCU-5	20A/2P	69		1.25					70	20A/1P	SPARE	
		71			1.25				72	20A/1P	SPARE	
BC-1	20A/2P	73	0.10			1.25			74	20A/2P	ACCU-6	
		75		0.10			1.25		76			
FCU-7,8,9,10,11,12	20A/2P	77			0.39				78	20A/1P	EXISTING	
		79	0.39						80	20A/1P	EXISTING	
FCU-1,2,3,5,6	20A/2P	81		0.30					82	20A/1P	EXISTING	
		83			0.30				84	20A/1P	EXISTING	
PHASE A	2.99	KVA	TOTAL LOAD 9.08 KVA						NOTES:			
PHASE B	2.90	KVA										
PHASE C	3.19	KVA										
* - DENOTES NEW CIRCUIT BREAKER. REMOVE EXISTING TURN OVER TO OWNER AND PROVIDE NEW AS INDICATED												

PANEL 'MP1C', 250 AMP, 120/208 VOLT, 3-PHASE, 4-WIRE & GND													
INTERRUPTING CAPACITY:			10,000 AMPS RMS SYM			MAIN: 250A M.C.B.			MOUNTING: SURFACE				
LOAD DESCRIPTION		CB	CIRC NO.	A	B	C	KVA LOAD	A	B	C	CIRC NO.	CB	LOAD DESCRIPTION
ACCU-1 (SECTION-1)	60A/3P	1	4.92				4.92	4.92			2	60A/3P	ACCU-3 (SECTION-1)
		3		4.92					4				
		5			4.92			4.92	6				
ACCU-1 (SECTION-2)	60A/3P	7	3.72				3.72				8	60A/3P	ACCU-3 (SECTION-2)
		9		3.72			3.72		10				
		11			3.72			3.72	12				
ACCU-2	90A/3P	13	6.84								14		SPACE
		15		6.84					16				
		17			6.84				18				
SPACE		19							20		SPACE		
SPACE		21							22		SPACE		
SPACE		23							24		SPACE		
SPACE		25							26		SPACE		
EXTERIOR RECEPTACLE	20A/1P	27		0.18							28		SPACE
UH-1	20A/1P	29			0.20						30		SPACE
PHASE A		24.12	KVA	TOTAL LOAD 72.74 KVA						NOTES:			
PHASE B		24.30	KVA										
PHASE C		24.32	KVA										

LIGHTING FIXTURE SCHEDULE					
FIXTURE TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	LAMPS		
			No.	WATTAGE	VOLTAGE
A	2X2 LED BASKET TYPE GRID FIXTURE	LITHONIA 2BLT2-33L-ADP-MVOLT-EZ1-LP835	-	26	LED MVOLT
AE	2X2 LED BASKET TYPE GRID FIXTURE WITH EMERGENCY	LITHONIA 2BLT2-33L-ADP-MVOLT-EZ1-LP835-EL14L	-	26	LED MVOLT
B	DOWNLIGHT				LED MVOLT
⊗	LED EXIT SIGN, SINGLE FACE, BATTERY BACK-UP, CEILING OR WALL MOUNTED	LITHONIA LQM-S-W-3R-120/277-ELN	-	4	LED 120/277
⊕	LED EXIT SIGN, DOUBLE FACE, BATTERY BACK-UP, CEILING OR WALL MOUNTED	LITHONIA LQM-S-W-3R-120/277-ELN	-	4	LED 120/277

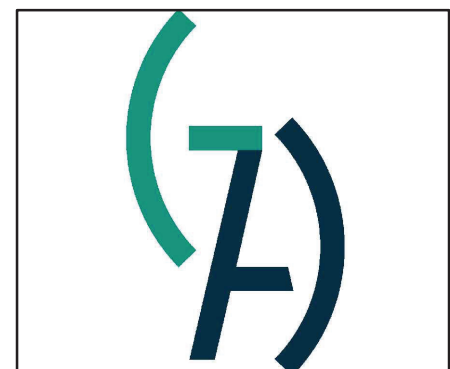
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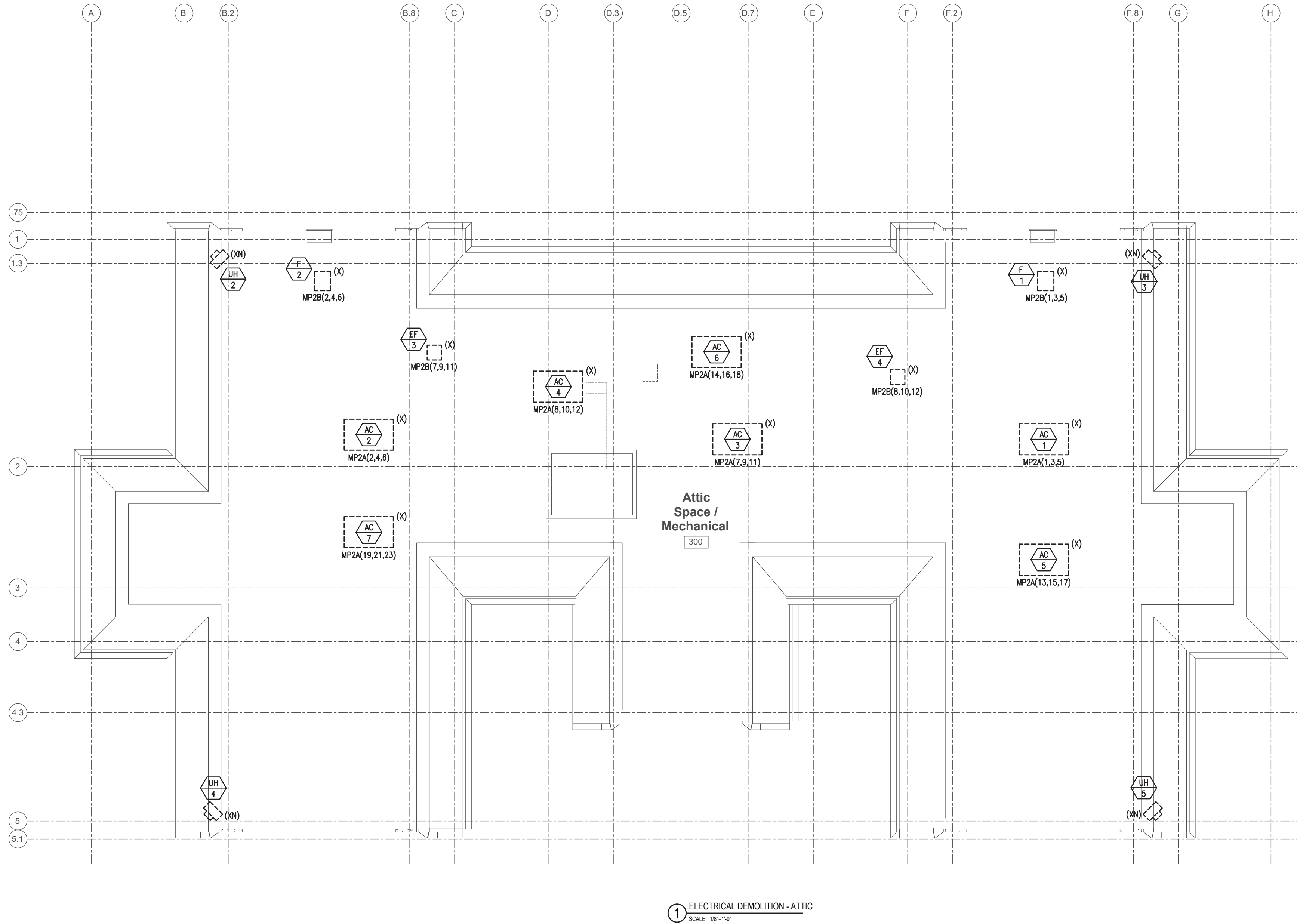
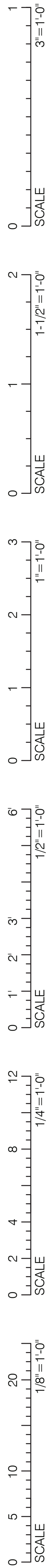
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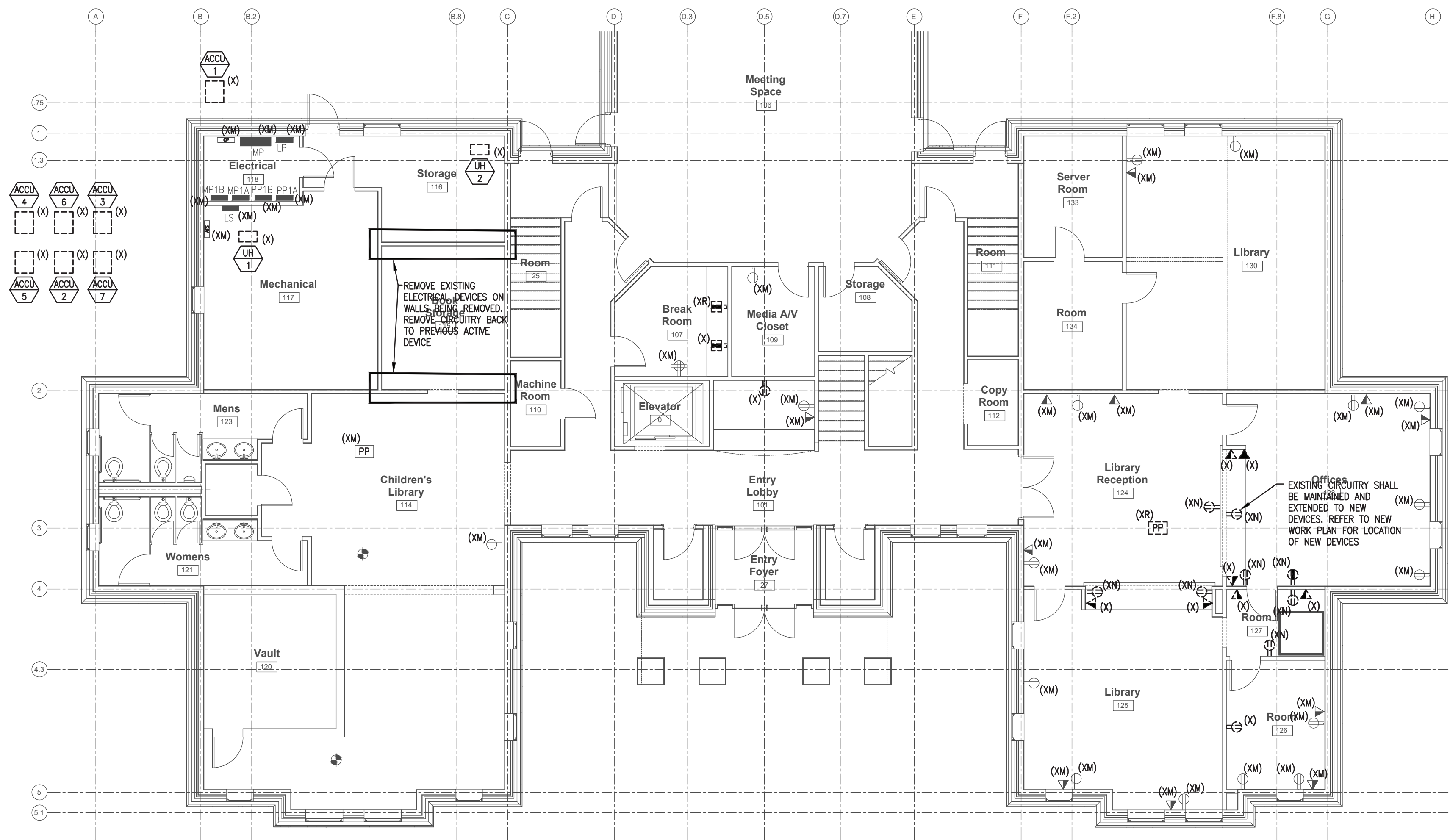
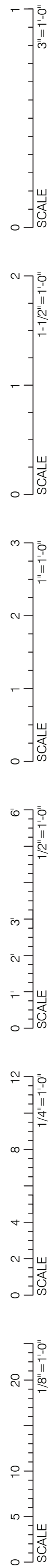
ELECTRICAL
DEMOLITION

ED1-0

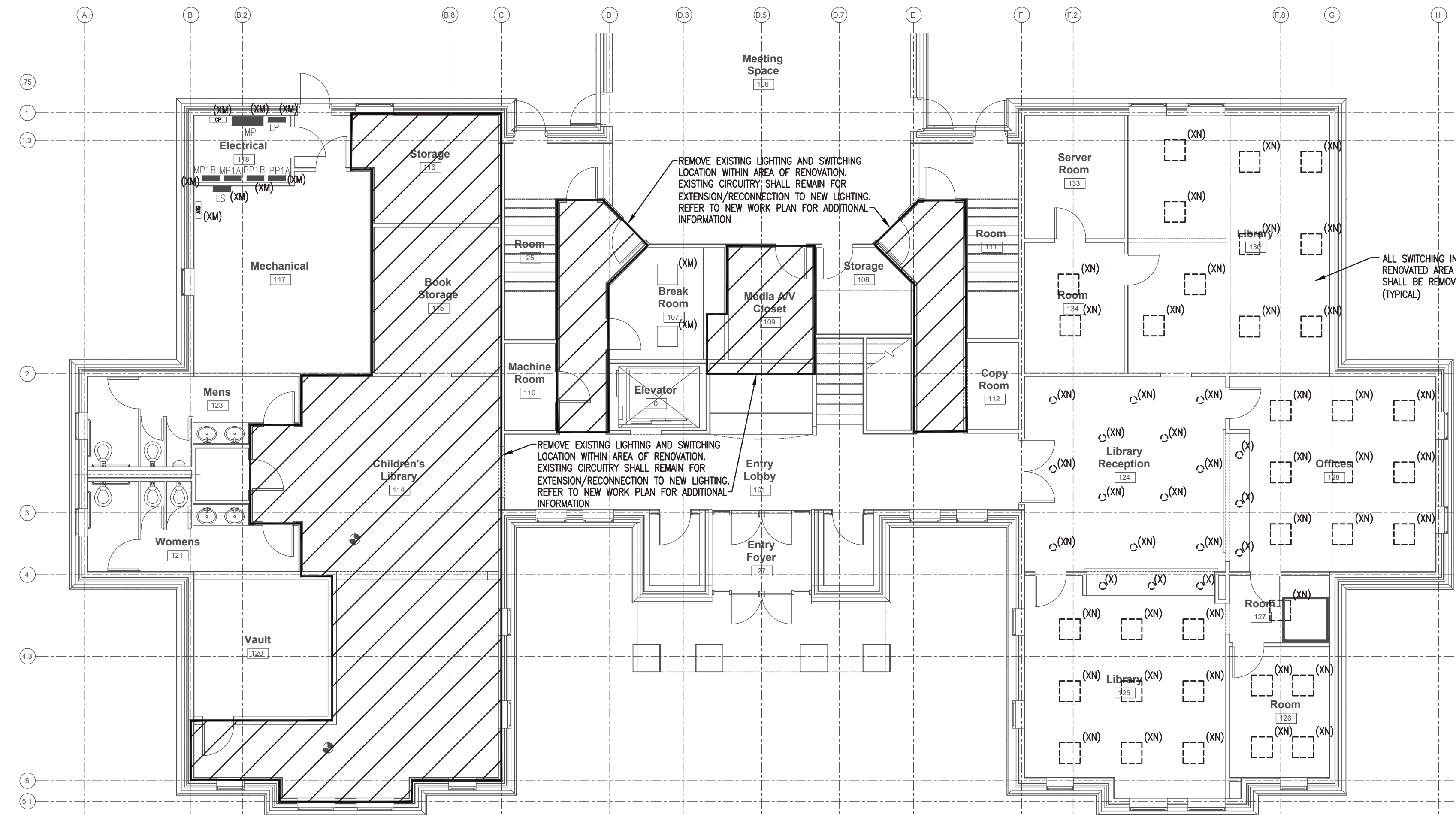
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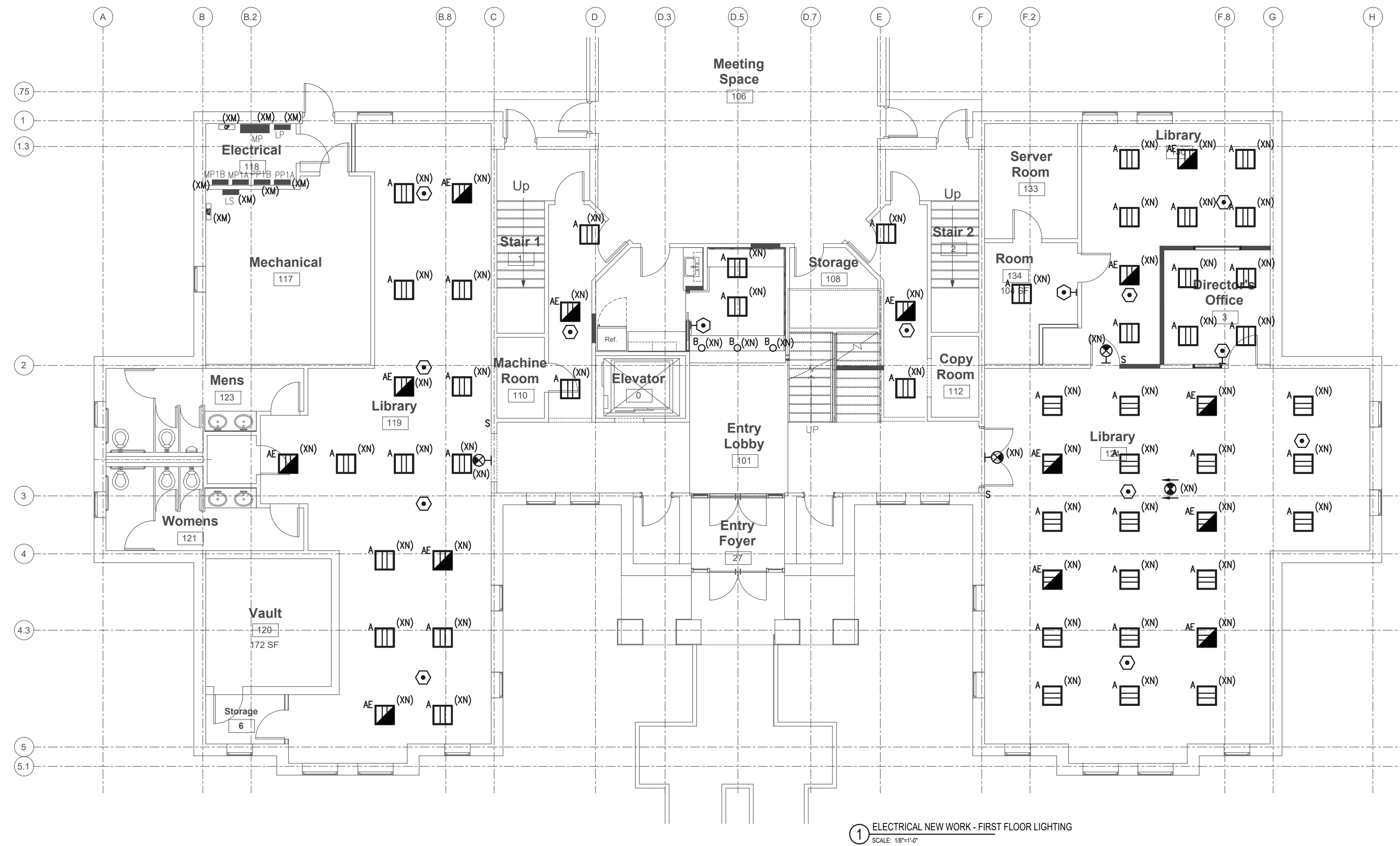
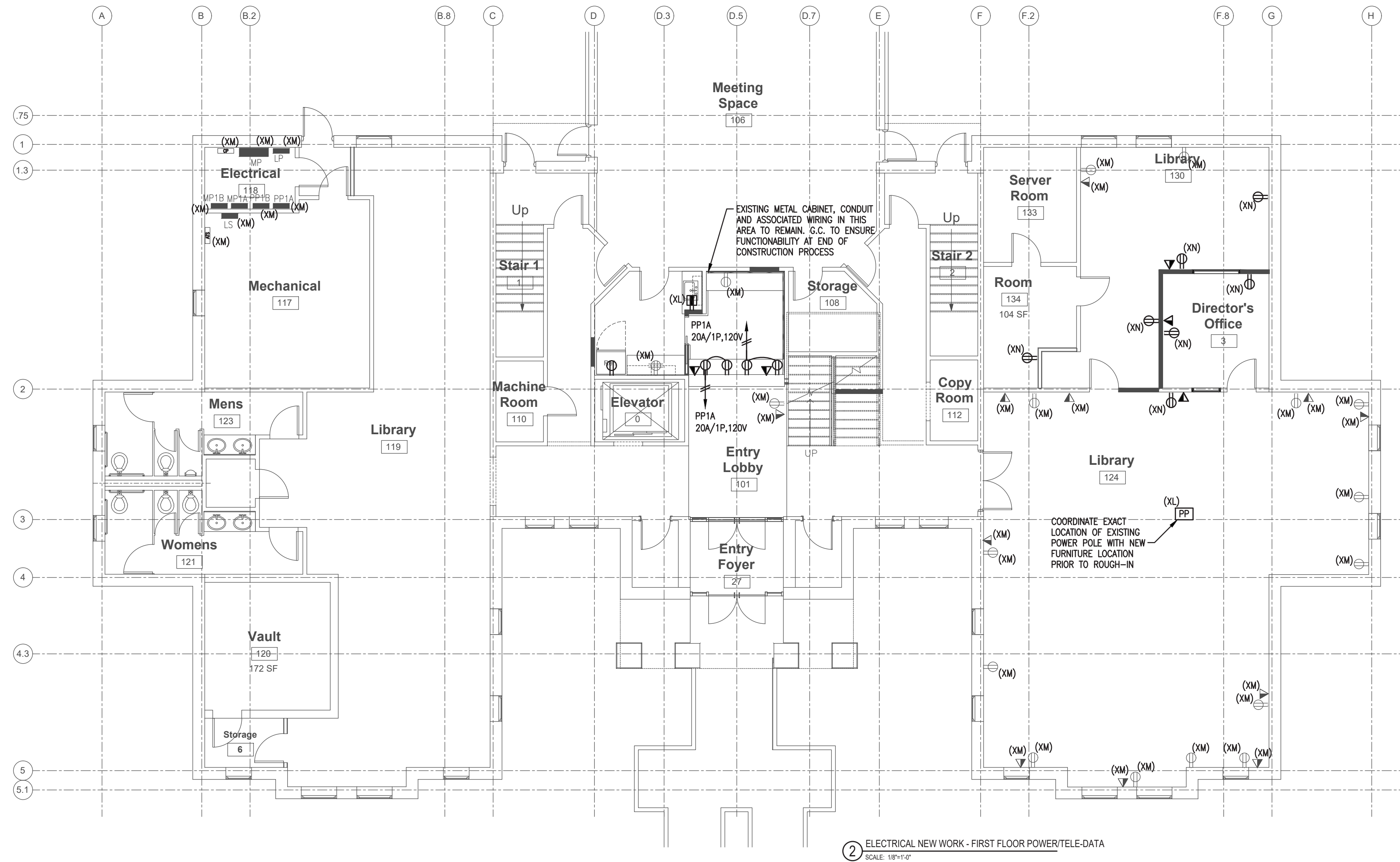


2 ELECTRICAL DEMOLITION - 1ST FLOOR POWER/TELE-DATA
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ELECTRICAL
NEW WORK
PLANS

E-1

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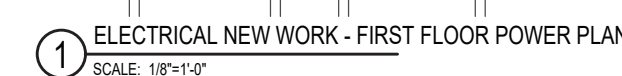
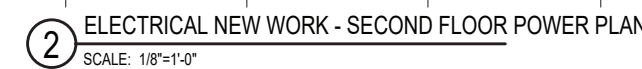


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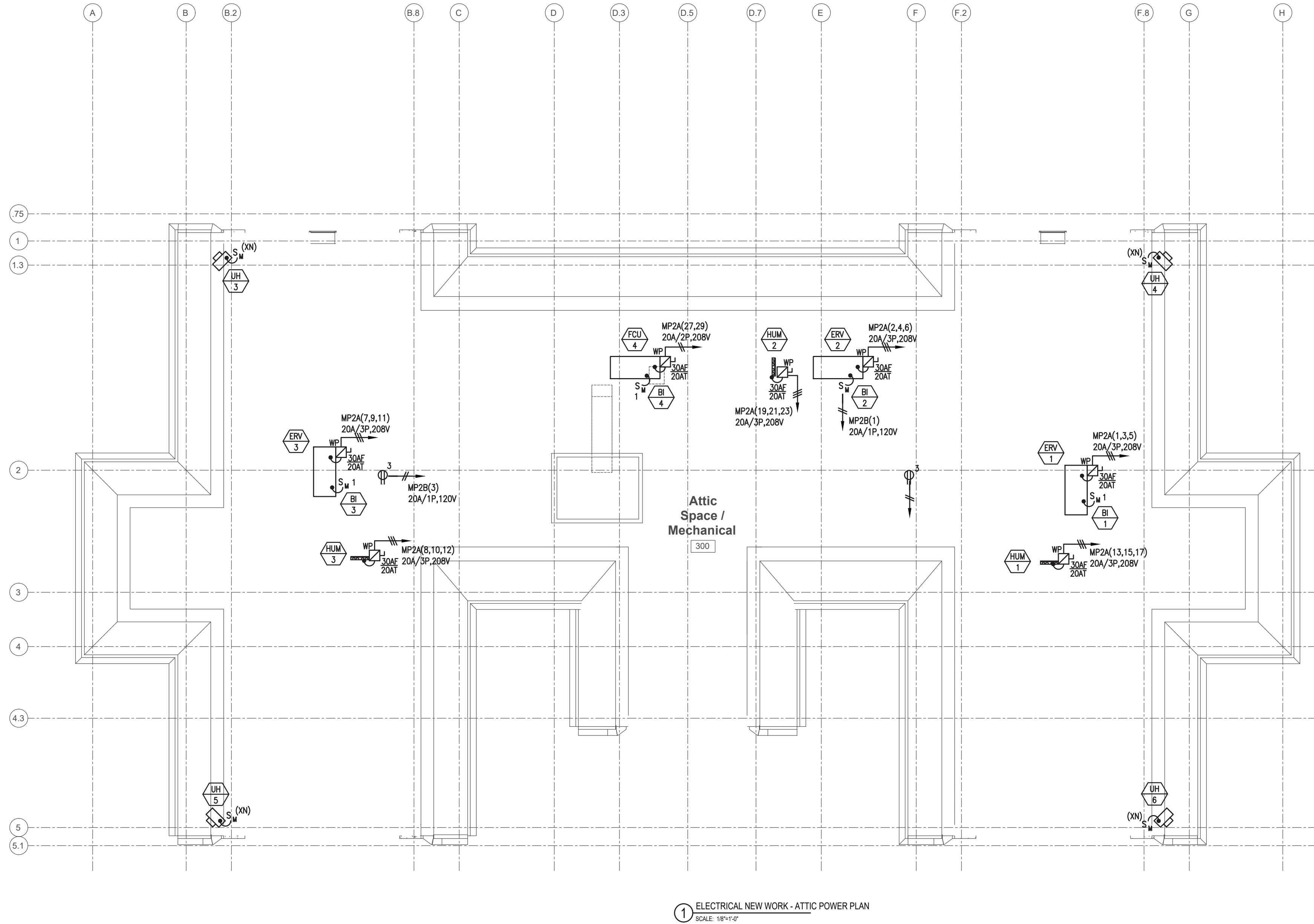
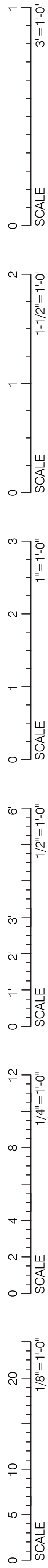
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1 ELECTRICAL NEW WORK - ATTIC POWER PLAN
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ELECTRICAL
NEW WORK
ATTIC

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