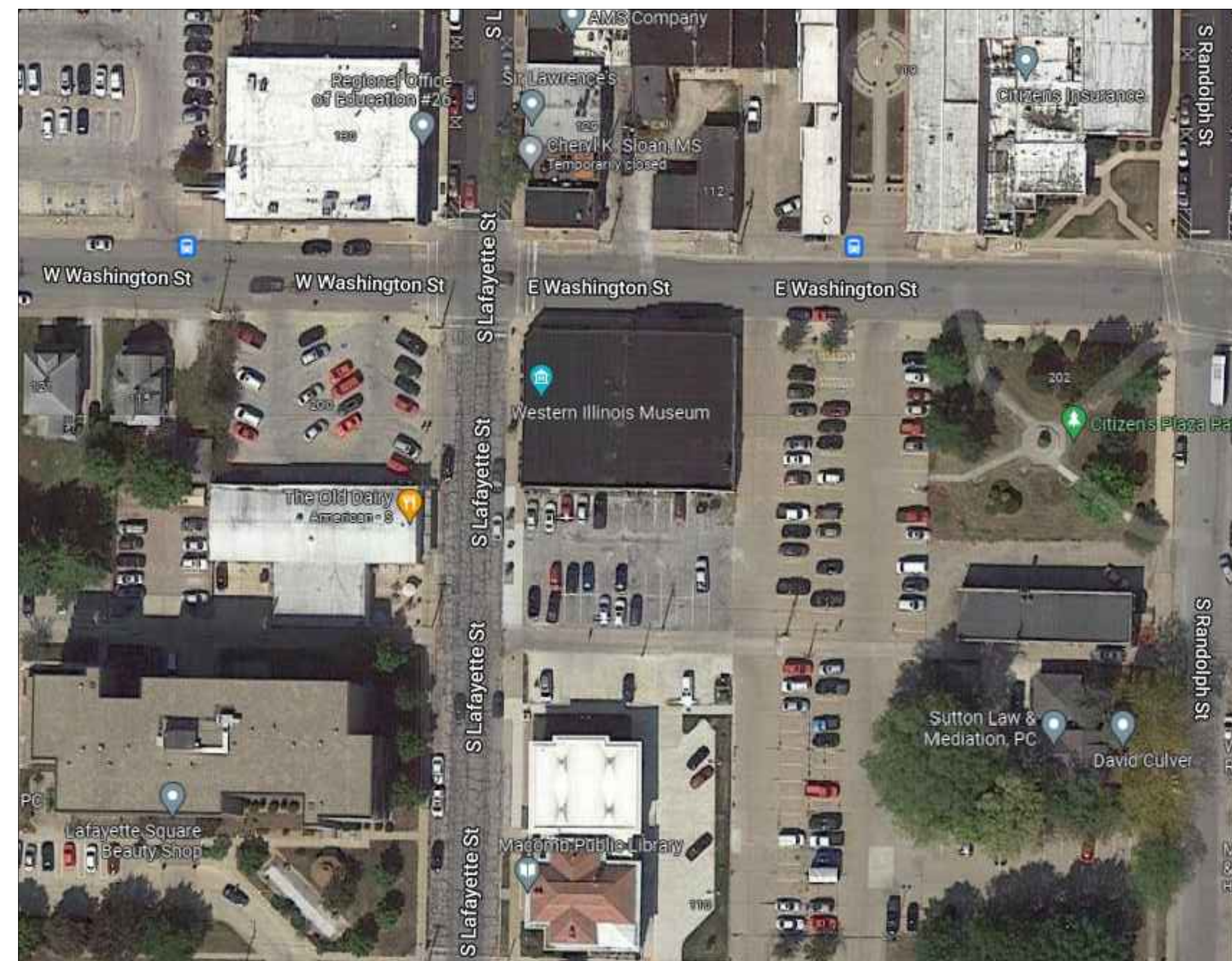


# WESTERN ILLINOIS MUSEUM

## HVAC AND PLAN UPGRADES 2022

FOR:  
 WESTERN ILLINOIS MUSEUM  
 201 S. LAFAYETTE STREET  
 MACOMB, ILLINOIS 61455

ISSUANCE:  
 JANUARY 27, 2023  
 ISSUED FOR BID




1 SITE MAP  
 G100 SCALE: NONE



**WESTERN ILLINOIS MUSEUM**  
 201 S. LAFAYETTE ST.  
 MACOMB, IL 61455

**OWNER**  
 Western Illinois Museum  
 201 S. Lafayette Street  
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REVISION		
NO.	DATE	REMARKS

Seal/Drawing Status:  
 NOT FOR CONSTRUCTION

**COVER SHEET**

PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: AS  
 CHECKED BY: HZ  
 SCALE: PER DWG

**G100**

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# ARCHITECTURAL SPECIFICATIONS

## 01045 CUTTING AND PATCHING

A. When making alterations to existing construction use materials for cutting and patching that match existing adjacent surfaces to the fullest extent possible with regard to visual effect. Use material that will result in equal-or-better performance characteristics. Restore exposed finishes of patched areas and where necessary extend finish restoration into retained adjoining work in a manner which will eliminate evidence of patching and refinishing.

## 01590 CLEAN-UP

A. Clean-Up and Debris Removal: The General Contractor shall coordinate the removal of debris with the Subcontractors and the Building Management. Premises are to be swept clean on a daily basis. General Contractors shall coordinate with Building Management regarding any Covid-related cleaning procedures.

## 02080 REMOVAL

A. The General Contractor shall coordinate the removal with the Sub-Contractors.  
 B. Before beginning the removal, check the drawings for items that are to be reused and check with the Owner for items the Owner wishes to reserve for their own salvage.  
 C. Whenever possible reuse existing items such as doors, frames, hardware, lights, exit signs, diffusers, that meet the project specifications.  
 C. In the areas of new construction, remove the walls, ceilings, floor finishes, etc. Contractors shall determine what shall be removed and what shall be retained for future use.  
 D. Contractor is responsible for complying with all applicable codes and requirements for recycling and waste removal.

## 03540 CEMENTITIOUS SELF-LEVELING OVERLAY FLOOR

A. Applicator Qualifications: Company specializing in performing the work of this section, and approved by manufacturer.  
 B. Store products in manufacturer's unopened packaging until ready for installation.  
 C. Keep dry and protect from direct sun exposure, freezing, and ambient temperature greater than 105 degrees F.  
 D. Do not install overlay until floor penetrations and peripheral work are complete.  
 E. Comply with manufacturer's written recommendations for substrate temperature and moisture content, ambient temperature and humidity, ventilation, and other conditions affecting overlay performance.  
 F. Close areas to traffic during overlay application and for time period after application recommended by manufacturer.  
 G. During the curing process, ventilate spaces to remove excess moisture.  
 H. Cementitious Overlay: Flowable, Blended cement-based, polymer-modified cementitious topping, that when mixed with water in accordance with manufacturer's directions will produce self-leveling overlayment with the following properties:  
 a. Cement: Portland cement per ASTM C150/C150M; or hydraulic or blended hydraulic cement per ASTM C219.  
 b. Compressive Strength: Minimum 4000 pounds per square inch after 28 days, tested per ASTM C109/C109M.  
 c. Flexural Strength: Minimum 1000 psi after 28 days, tested per ASTM C348.  
 d. Density: 125 pounds per cubic foot, nominal.  
 e. Final Set Time: 1-1/2 to 2 hours, maximum.  
 f. Thickness: Capable of thicknesses from feather edge to maximum 3-1/2 inch.  
 g. Surface Burning Characteristics: Flame spread/Smoke developed index of 0/0 in accordance with ASTM E84.  
 h. Aggregate: Dry, well graded, washed silica aggregate, approximately 1/8 inch in size and acceptable to overlay manufacturer.  
 i. Reinforcement: Galvanized metal lath complying with recommendations of overlay manufacturer for specific project circumstances.  
 j. Water: Potable and not detrimental to overlay mix materials.  
 k. Primer: Manufacturer's recommended type.  
 l. Joint and Crack Filler: Latex based filler, as recommended by manufacturer.  
 I. Prior to installation, verify that substrate surfaces are clean, dry, unfrozen, do not contain compounds detrimental to overlay material bond to substrate. Prepare existing concrete surfaces according to ICRI 310.2R. Remove substrate surface irregularities. Fill voids and deck joints with filler. Finish smooth. Vacuum clean surfaces. Provide clean, dry, neutral-pH substrate for underlayment application. Prime substrate in accordance with manufacturer's instructions and allow to dry.  
 J. Close floor openings. Fill all voids with self-compacting fill. Treat nonmoving substrate cracks to prevent cracks from telegraphing through overlay according to manufacturer's written recommendations. After substrate preparation, test substrate for adhesion with overlay according to manufacturer's instructions.  
 K. Install overlay in accordance with manufacturer's instructions. Protect against direct sunlight, heat, and wind; prevent rapid drying to avoid shrinkage and cracking. Do not permit traffic over unprotected floor overlay. Protect from concentrated and rolling loads for remainder of construction period.

## 05120 STRUCTURAL STEEL FRAMING

A. The steel sizes and configurations indicated on the structural drawings are conjectural. All bearing conditions and resulting spans must be field verified.  
 B. The steel support structure must be analyzed and designed by a structural engineer licensed to practice in the State of Illinois.

## 07015 ROOF PATCHING

A. Patch existing roof wherever affected by new construction as required to maintain the system weathertight and existing warranty (if any) in full force and effect.  
 B. Installer Qualifications: Company experienced in performing the type of work required in this section with minimum three years documented experience, and approved by manufacturer.  
 C. Install work only under environmental conditions recommended by the flashing material's manufacturer.  
 D. Investigate the existing roof system to determine the type of existing roofing systems to be cut and patched. For roofs under guarantee, investigate with the roofing system producer's authorized technical representative. For single ply roofs not under guarantee, investigate with a qualified technical party skilled and knowledgeable in the types of roof membranes to be cut and patched.  
 a. For roofs under warranty, use materials and techniques required to maintain existing warranty in effect. For out of warranty single ply roofs, utilize insulation and roof membrane/flashing system matching existing or as otherwise appropriate.  
 E. Preparation: Cut back insulation and roof membrane to straight line.  
 F. Installation: Cut insulation to exactly fill void to top of existing roof membrane and install in roofing cement. Provide cants and insulate curbs as required to provide sound, level substrate for flashing. Prime contact surface, as recommended by system manufacturer.  
 G. Roofs in Warranty: Install roofing system required to maintain guarantee in full force and effect.  
 H. Out of Warranty/Guaranty Single Ply Roofs: Install roofing/flashing system established to be appropriate as required to maintain roof watertight.

## 07720 ROOF ACCESSORIES

A. Access hatch and ladder.  
 a. Install in accordance with manufacturer's instructions, in manner that maintains roofing system weather-tight integrity.  
 b. Reference Standard: 29 CFR 1910.23 - Ladders current edition.  
 c. Roof Hatches: Factory-assembled aluminum frame and cover, complete with operating and release hardware.  
 1. Style: Provide flat metal covers unless otherwise indicated.  
 2. Mounting: Provide frames and curbs suitable for mounting conditions as indicated on drawings.  
 3. Thermally Broken Hatches: Provide insulation within frame and cover.  
 4. Size: Single leaf; 36 by 30 inches.  
 d. Safety Post: Provide telescoping safety post designed to serve as a handrail extending above the top rung of the hatch ladder.  
 e. Hardware: Steel, zinc coated and chromate sealed, unless otherwise indicated or required by manufacturer.  
 f. Lifting Mechanisms: Compression or torsion spring operator with shock absorbers that automatically opens upon release of latch; capable of lifting covers despite 10 psf load.  
 g. Hinges: Heavy duty pintle type. Hold open arm with vinyl-coated handle for manual release.  
 h. Latch: Upon closing, engage latch automatically and reset manual release.  
 i. Manual Release: Pull handle on interior.  
 j. Locking: Padlock hasp on interior.

## 08100 ROUGH CARPENTRY

A. Lumber for Miscellaneous Uses: Unless otherwise indicated, provide standard grade lumber for support of other work, including grounds, bucks, nailers, blocking, furring, grounds, stripping and similar members.  
 B. Plywood Backing for Electrical and Telephone Equipment: APA C-D PLUGGED INT with exterior glue, fire-retardant treated, 1/2" thick except as otherwise indicated.  
 C. Fasteners and Anchorages: Of size, type, material and finish suited to application shown. Provide metal hanger and framing anchors of size ant type recommended for intended use by manufacturer.  
 D. Fire-Retardant Treated Wood: Where wood is indicated for fire-retardant treatment comply with AWPA C20 and AWPA C27 (plywood) for treatment. Provide label from an approved agency. Redry treated lumber.  
 E. Securely attach carpentry work to substrates and supporting members using fasteners of size that will not penetrate members where opposite side will be exposed to view or receive finish materials. Install fasteners without splitting wood; fasten panel products to allow for expansion at joints unless otherwise indicated.

## 09250 GYPSUM DRYWALL

A. General Standard: GA-216 by Gypsum Association, or manufacturer's instructions (whichever is more stringent).  
 B. Metal Support Standard: ASTM C 754 and ASTM C 645  
 C. Gypsum Board Standard: ASTM C 1840 and ASTM C 36  
 D. Gypsum Backing Board for Multi-layer Applications: ASTM C 442 or A 36  
 E. Trim Accessories: Provide Mfr's. standard metal trim accessories, of the beaded type with face flanges for concealment in joint compound. Provide comer beads, L-type edge trim beads, LI-type beads, special L-kerf-type edge trim-beads, and one piece control beads.  
 F. Gypsum Board Fasteners: Type recommended by gypsum board mfg., except as otherwise indicated.  
 G. Joint Tape: ASTM c 475, paper reinforcing tape.  
 H. Joint Compound: ASTM C 476  
 I. Installation of Metal Support Systems: Do not bridge building expansions joints with support systems, frame both sides of joints with furring and other supports as indicated.  
 J. Wall/ Partition Support System:  
 a. Install steel studs with bottom and top runner tracks anchored to substrates. Isolate system from building structure to prevent transfer of loading and deflections into metal support system, both vertically and horizontally.  
 b. Frame door and other openings with studs and runners. Gauge, number and arrangement of studs to comply with manufacturer's recommendations for size of opening, weight and height of doors and stud size, unless otherwise indicated.  
 c. Install supplementary framing, runners, furring, blocking and bracing at openings end termination in gypsum drywall and where required for support of the work which cannot be adequately supported on gypsum board alone.  
 O. Drywall Installation and Finishing:  
 a. Install gypsum boards in lengths and directions which will minimize number of joints. Install walls and partitions with exposed gypsum boards vertical, joints offset on opposite sides of partitions.  
 b. Form control joints with 1/2" space between boards.  
 c. Install acoustical sealant at base of space, and apply trim accessory at face.  
 d. Acoustical Sealant: Where work is indicated as "Sound Retarding" or shown with an STC rating, apply acoustical sealant as recommended by manufacturer.  
 e. Isolate drywall work from abutting structural and masonry work; provide edge trim and acoustical sealant as recommended by manufacturer.  
 f. Screw gypsum board to metal supports.  
 g. Screw both layers to supports where double-layer work is indicated or otherwise required.  
 h. Do not bridge building expansion joints. Leave space of the width indicated between boards, and trim both edges for installation of sealant or gasket.  
 P. Drywall Finishing: Except as otherwise indicated, apply joint tape and joint compound at joints (both directions) between gypsum boards. Install compound in three coat where recommended by mfr. and apply compound at accessory flanges, penetrations, fasteners, heads and surface defect after last two coats.

## 09655 RESILIENT BASE

A. Vinyl Wall Base: FS SS-W-40 Type II.  
 B. Install resilient base in accordance with the manufacturer's instructions. Secure base to surfaces with waterproof cement; make joints light; keep top and bottom edges in firm contact with adjacent surfaces. Use longest lengths possible ; straight pieces less than 23" long are not permitted. Miter or cope inside comers and use premolded outside corner.

## 09900 PAINTING

A. Description of work: Painting and finishing of interior wall surfaces where indicated on plans and where wall finishes have been affected by construction work. Three coat finishes shall be provided in low odor, low VOC paints. Walls shall be final coat – eggshell 15-20 units @85°. All hollow metal shall be final coat semi-gloss 45-55 units @60°.  
 B. Coordination: Provide finish coats which are compatible with prime paints used. Provide barrier coats over incompatible primers where required. Notify Architect in writing of anticipated problems using specified coatings wilt! substrates primed by others.  
 C. Application: Apply painting and finishing materials in accordance with manufacturer's directions. Use applicators and techniques best suited for materials and surfaces to which applied.  
 a. Omit first coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise specified.  
 b. Apply prime coat to material which is required to be painted or finished, and which has not been prime coated by others.  
 c. Apply each material at not less than manufacturer's recommended spreading rate.

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### REVISION

NO.	DATE	REMARKS

Seal/Drawing Status:

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## ARCHITECTURAL SPECIFICATIONS

PROJECT NUMBER: 2206-01

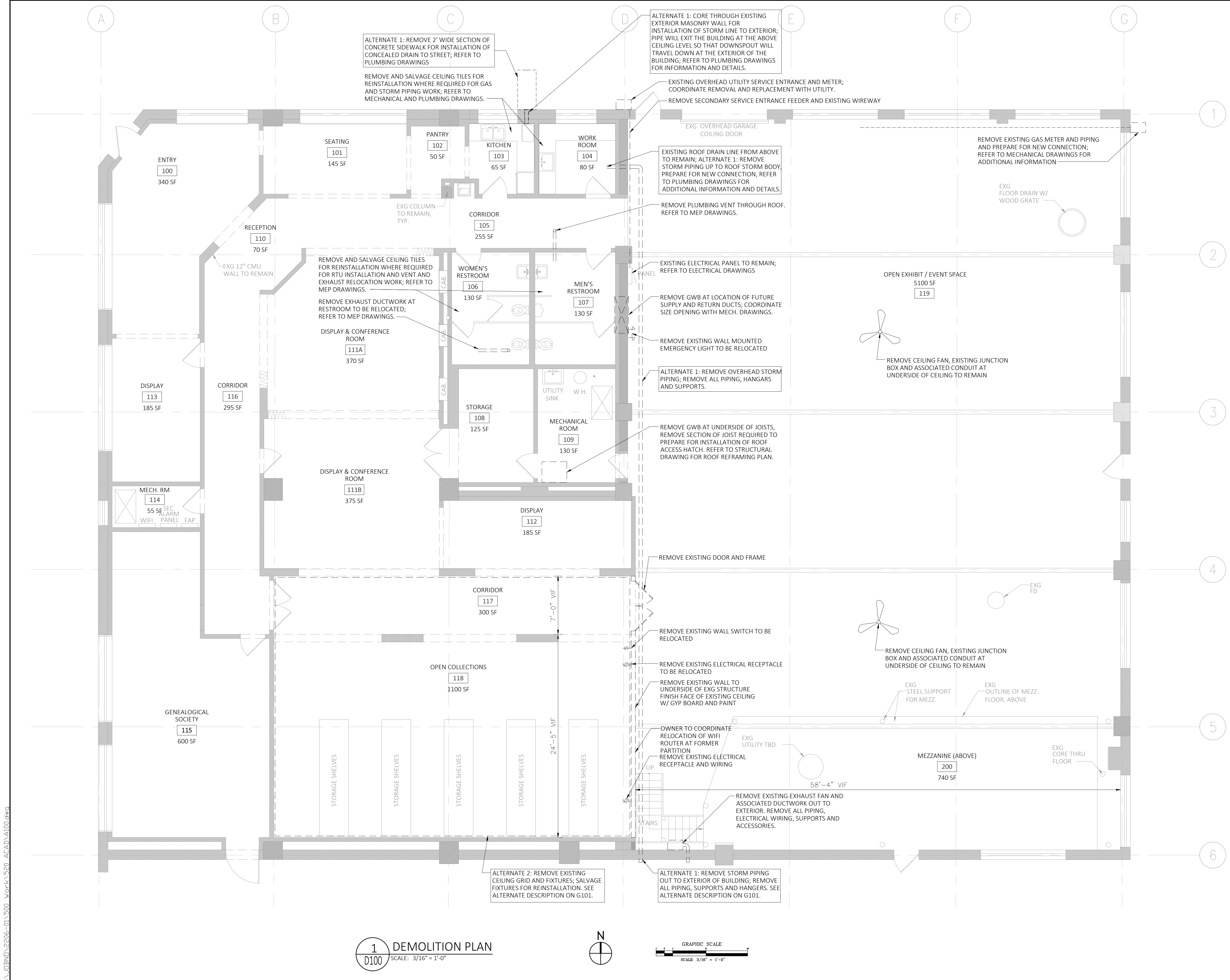
DATE: 01/27/2023

DRAWN BY: AS

CHECKED BY: HZ

SCALE: PER DWG

**G102**



**DEMOLITION LEGEND**

- EXISTING PARTITION TO REMAIN
- - - PARTITION TO BE REMOVED
- EXISTING DOOR AND FRAME TO REMAIN
- DOOR AND FRAME TO BE REMOVED

**GENERAL DEMO NOTES:**

1. DEMO SHEET D100 COVERS DEMO SCOPE FOR BOTH PLAN AND RCP WORK.
2. FURNITURE REMOVAL BY OWNER.
3. ARCHITECTURAL DRAWINGS, NOTES, AND KEYNOTES DO NOT LIMIT THE EXTENT OF THE REQUIRED DEMOLITION WORK. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED TO COMPLETE WORK INDICATED. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL ASSOCIATED WORK THAT WILL EFFECT PARTIAL/FULL REMOVAL OF WALLS/CEILING FOR ROUTING OF PIPING/CONDUIT/DEVICES.
4. SALVAGE ALL REMOVED WOOD TRIM INCLUDING WALL BASE, PICTURE RAIL, WALL TRIM, DOOR TRIM, AND WINDOW TRIM AND STORE FOR REINSTALLATION OR STORE PER MUSEUM'S INSTRUCTIONS.
5. EXISTING CONSTRUCTION SHALL BE PROTECTED AND THE CONTRACTOR SHALL BEAR RESPONSIBILITY FOR ALL DAMAGES TO EXISTING CONSTRUCTION INDICATED TO REMAIN. ITEMS DAMAGED AS A RESULT OF ANY CONTRACTOR'S WORK SHALL BE REPLACED OR REPAIRED IN FULL EXTENT BY THE CONTRACTOR.
6. IF DEMOLITION PERFORMED IS IN EXCESS OF THAT WHICH IS REQUIRED, CONTRACTOR SHALL RESTORE AFFECTED AREAS AT NO ADDITIONAL COST TO THE OWNER.
7. PROTECT ALL EXISTING ADJACENT SURFACES, ELEMENTS, DEVICES, FINISHES, ETC. TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
8. ALL DEMOLITION DEBRIS TO BE CLEARED DAILY.
9. ALL SURFACES DISTURBED OR EXPOSED DURING DEMOLITION SHALL BE REPLACED/PATCHED AND REPAIRS TO MATCH ADJACENT SURFACES.
10. CONTRACTOR TO COORDINATE WITH UTILITIES AS REQUIRED DURING DEMOLITION AND REMOVALS.
11. CONTRACTORS SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL WALL-MOUNTED ITEMS AND FIXTURES ASSOCIATED WITH THE WORK WHERE INDICATED ON THE DRAWINGS.
12. CONTRACTORS SHALL PROVIDE ADEQUATE WEATHER PROTECTIONS FOR THE BUILDING AND ITS CONTENTS DURING THE COURSE OF WORK. OPENINGS IN ANY WALL, CEILING, FLOOR, OR ROOF SHALL BE PROTECTED FROM ALL FORMS OF WEATHER OR WATER PENETRATION.
13. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING SERIES DRAWINGS FOR REQUIRED PRE-DEMOLITION SITE INVESTIGATION AND TESTING.

**ARCHITECTURAL DEMO LEGEND:**

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- D. DISMANTLE: TO DISASSEMBLE OR DETACH AN ITEM FROM A SURFACE USING SMALL HAND-TOOLS AND SMALL ONE-HAND POWER TOOLS, TAKING EXTREME CARE TO PROTECT AND PRESERVE SURFACES; DISPOSING OF ITEMS UNLESS INDICATED TO BE SALVAGED OR REINSTALLED.
- E. SALVAGE: TO PROTECT REMOVED OR DISMANTLED ITEMS AND EITHER LEAVE IN PLACE WITH PROTECTION OR DELIVER THEM TO THE OWNER, AS STATED ON PLANS.

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REVISION		
NO.	DATE	REMARKS

Seal/Drawing Status:  
**NOT FOR CONSTRUCTION**

**DEMOLITION PLAN**

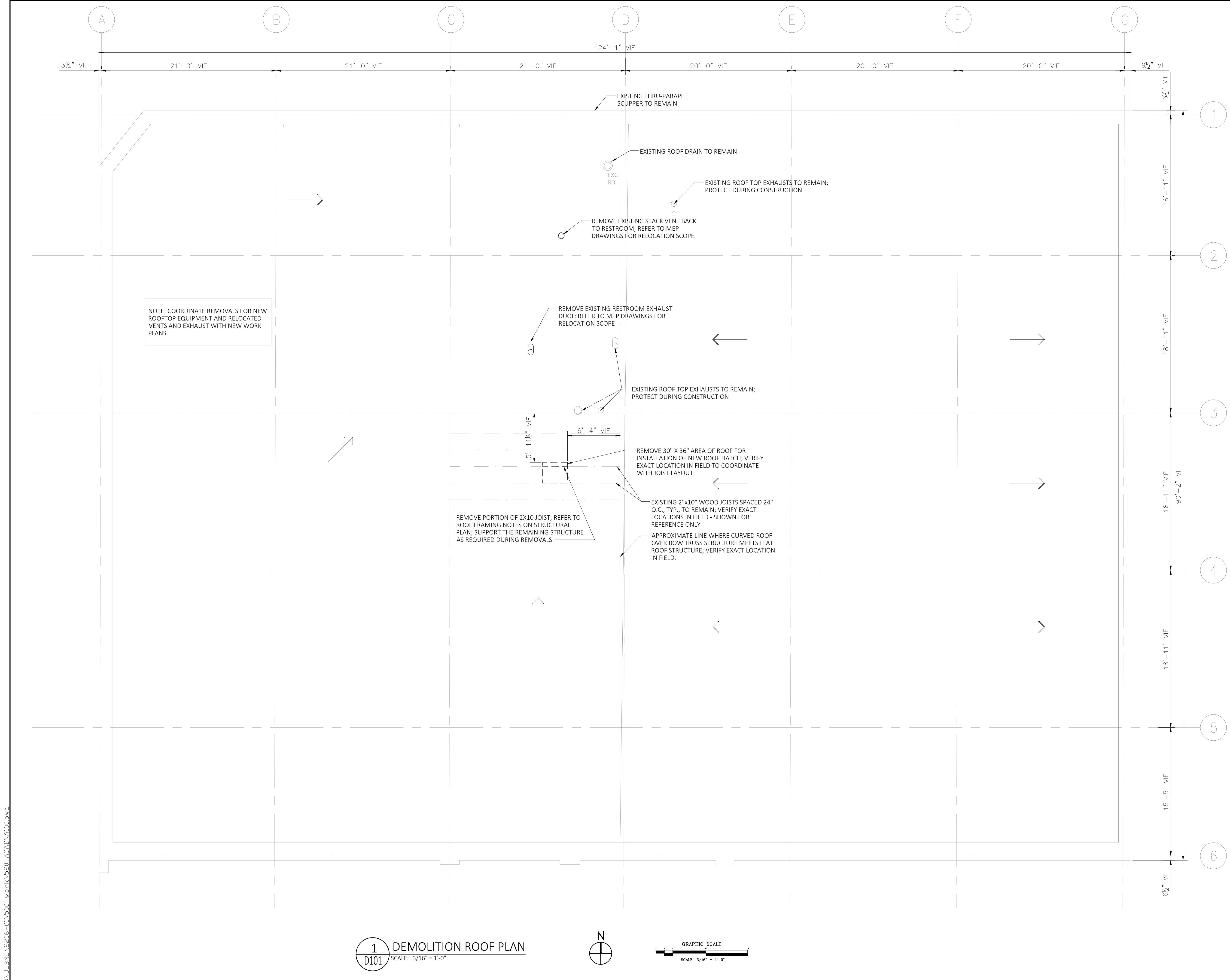
PROJECT NUMBER: 2206-01  
DATE: 01/27/2023  
DRAWN BY: AS  
CHECKED BY: HZ  
SCALE: PER DWG

**D100**

**1 DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"



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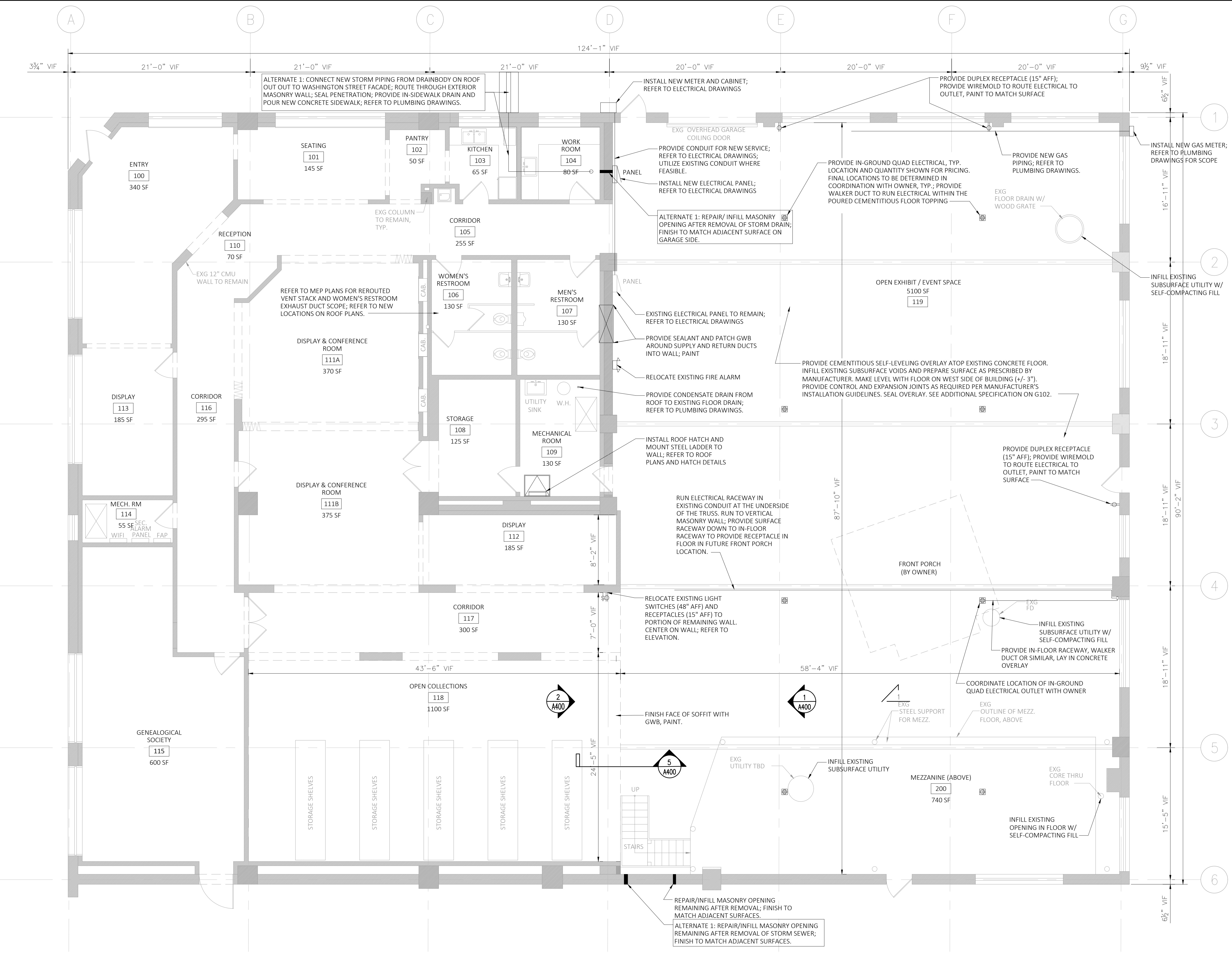
**DEMOLITION ROOF PLAN**

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DATE: 01/27/2023  
DRAWN BY: AS  
CHECKED BY: HZ  
SCALE: PER DWG

**D101**

**1 DEMOLITION ROOF PLAN**  
SCALE: 3/16" = 1'-0"





**PLAN LEGEND**

EXISTING PARTITION

**GENERAL PLAN NOTES:**

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR WORK AT CEILINGS.
- ARCHITECTURAL DRAWINGS, NOTES, AND KEYNOTES DO NOT LIMIT THE EXTENT OF THE REQUIRED DEMOLITION WORK. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED TO COMPLETE WORK INDICATED. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL ASSOCIATED WORK THAT WILL EFFECT PARTIAL/FULL REMOVAL OF WALLS/CEILINGS FOR ROUTING OF PIPING/CONDUIT/DEVICES.
- ALL EXISTING CONSTRUCTION SHALL BE PROTECTED AND THE CONTRACTOR SHALL BEAR RESPONSIBILITY FOR ALL DAMAGES TO EXISTING CONSTRUCTION INDICATED TO REMAIN. ITEMS DAMAGED AS A RESULT OF ANY CONTRACTOR'S WORK SHALL BE REPLACED OR REPAIRED IN FULL EXTENT BY THE CONTRACTOR.
- IF DEMOLITION PERFORMED IS IN EXCESS OF THAT WHICH IS REQUIRED, CONTRACTOR SHALL RESTORE AFFECTED AREAS AT NO ADDITIONAL COST TO THE USING AGENCY.
- PROTECT ALL EXISTING ADJACENT SURFACES, ELEMENTS, DEVICES, FINISHES, ETC. TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- ALL DEMOLITION DEBRIS TO BE CLEARED DAILY.
- ALL SURFACES DISTURBED OR EXPOSED DURING DEMOLITION SHALL BE REPLACED/ PATCHED AND REPAIRS TO MATCH ADJACENT SURFACES.
- CONTRACTOR TO COORDINATE WITH UTILITIES AS REQ'D. DURING DEMOLITION AND REMOVALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL WALL-MOUNTED ITEMS AND FIXTURES ASSOCIATED WITH THE WORK WHERE INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTIONS FOR THE BUILDING AND ITS CONTENTS DURING THE COURSE OF WORK. OPENINGS IN ANY WALL, CEILING, FLOOR, OR ROOF SHALL BE PROTECTED FROM ALL FORMS OF WEATHER OR WATER PENETRATION.

**INVESTIGATION NOTES:**

- CONTRACTOR TO VERIFY LOCATIONS OF ANY S SUBSURFACE AND/OR ABANDONED PENETRATIONS OR OPENINGS IN THE FORMER GARAGE FLOOR. INFILL ALL VOIDS IN FLOOR W/ SELF-COMPACTING FILL PRIOR TO INSTALLATION OF CEMENTITIOUS SELF-LEVELING OVERLAY FLOOR.
- CONTRACTOR TO INVESTIGATE LOCATIONS OF EXISTING OVERHEAD MECHANICAL, ELECTRICAL, AND PLUMBING INFRASTRUCTURE AND ROUTE NEW EQUIPMENT AROUND EXISTING TO THE EXTENT POSSIBLE.

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NO.	DATE	REMARKS

Seal/Drawing Status:  
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**FLOOR PLAN**

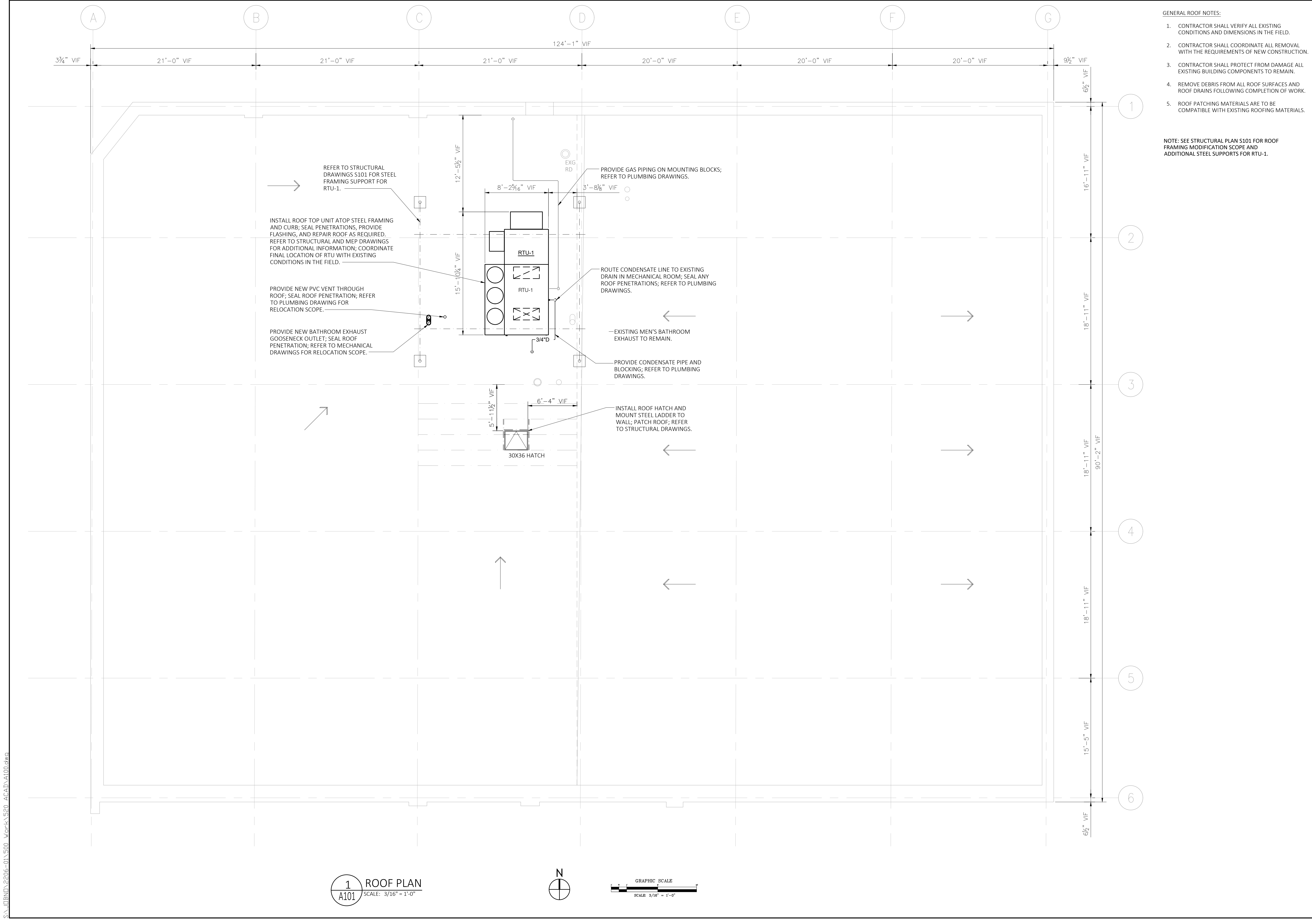
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DATE: 01/27/2023  
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SCALE: PER DWG

**A100**

**1 FLOOR PLAN**  
SCALE: 3/16" = 1'-0"



S:\JOB\2206-01\A100.dwg



- GENERAL ROOF NOTES:
1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.
  2. CONTRACTOR SHALL COORDINATE ALL REMOVAL WITH THE REQUIREMENTS OF NEW CONSTRUCTION.
  3. CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING BUILDING COMPONENTS TO REMAIN.
  4. REMOVE DEBRIS FROM ALL ROOF SURFACES AND ROOF DRAINS FOLLOWING COMPLETION OF WORK.
  5. ROOF PATCHING MATERIALS ARE TO BE COMPATIBLE WITH EXISTING ROOFING MATERIALS.

NOTE: SEE STRUCTURAL PLAN S101 FOR ROOF FRAMING MODIFICATION SCOPE AND ADDITIONAL STEEL SUPPORTS FOR RTU-1.

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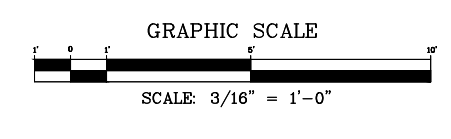
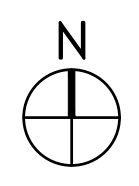
Seal/Drawing Status:  
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**ROOF PLAN**

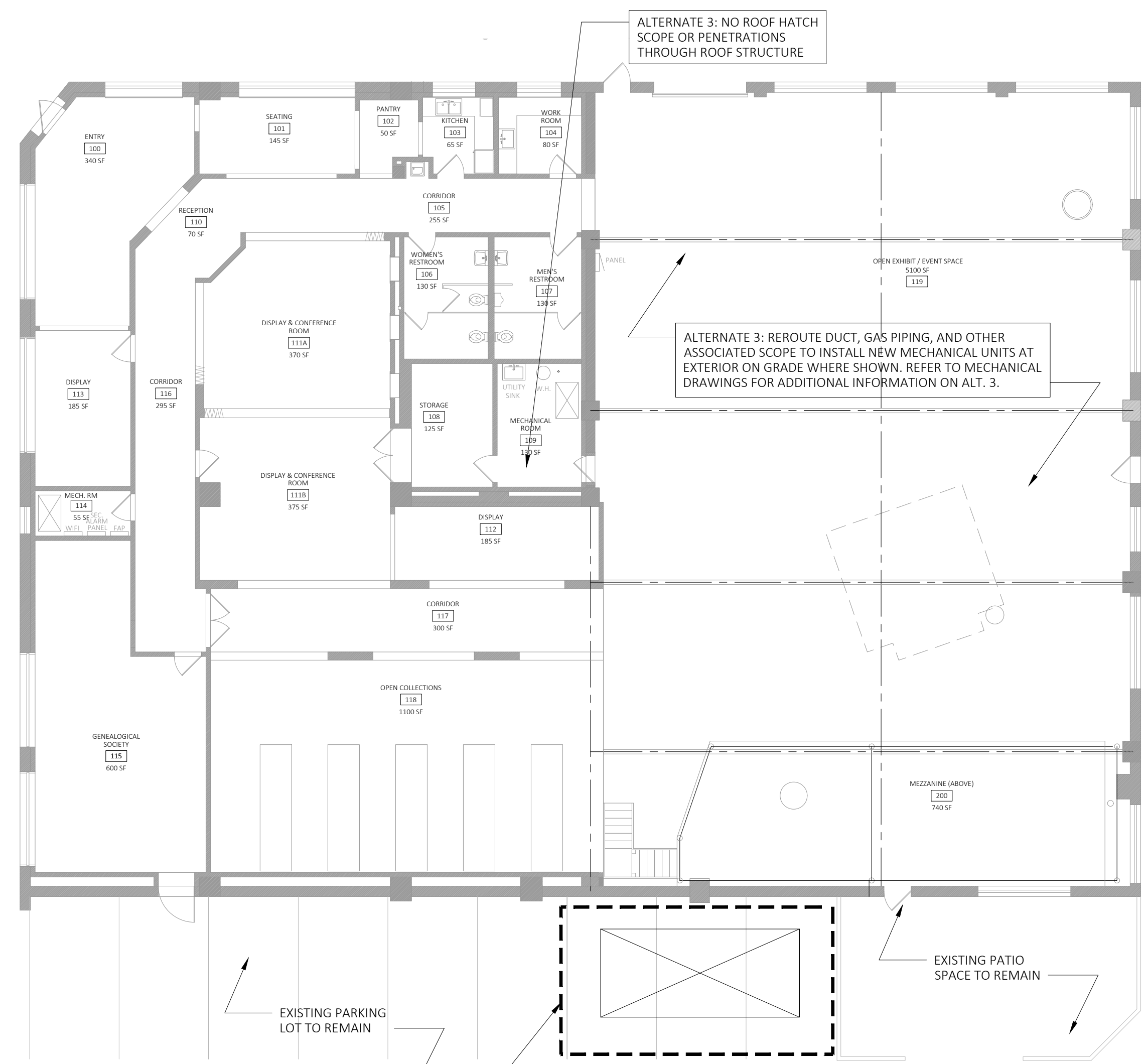
PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: AS  
 CHECKED BY: HZ  
 SCALE: PER DWG

**A101**

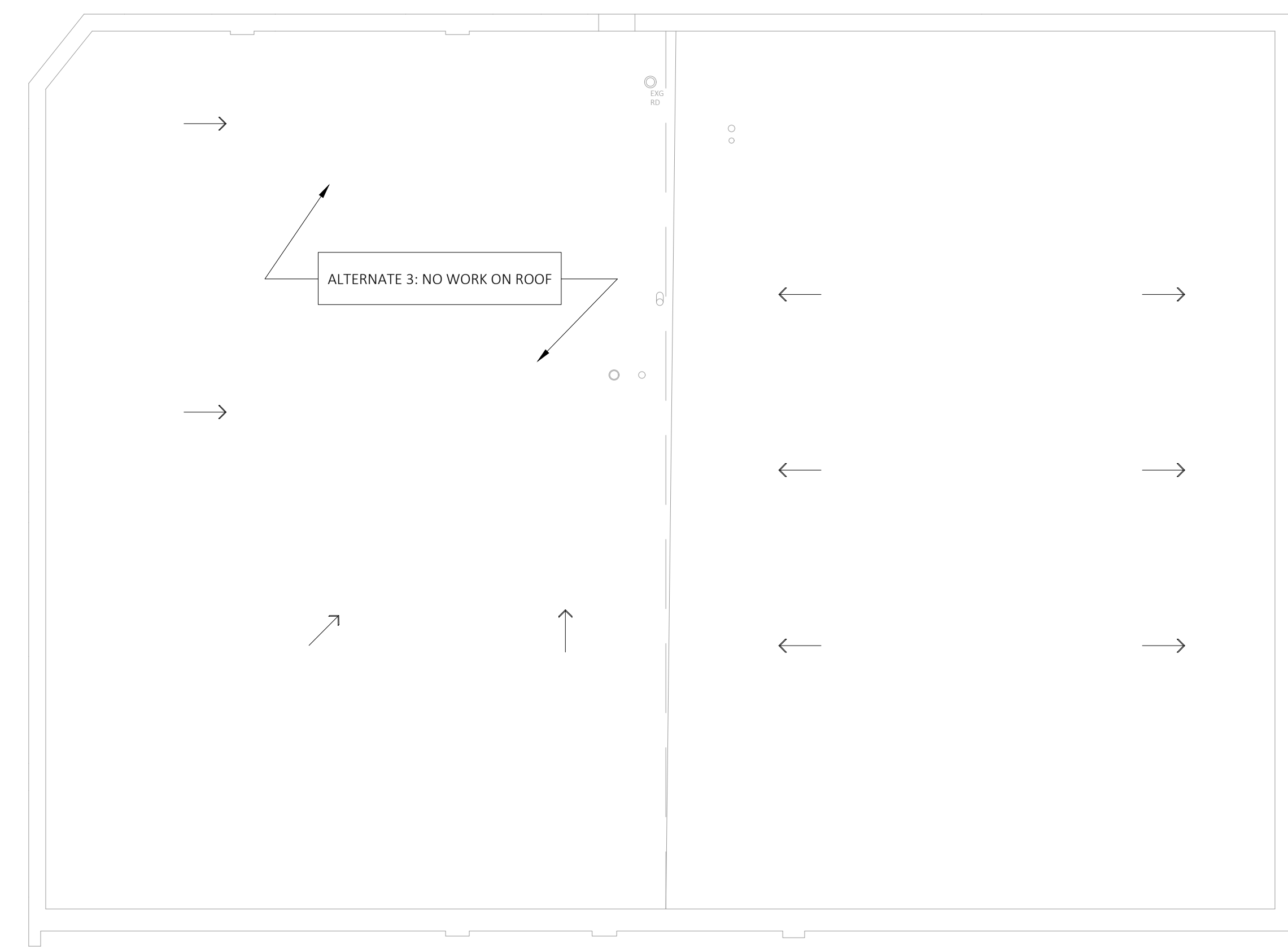
**1 ROOF PLAN**  
 SCALE: 3/16" = 1'-0"



S:\JOB\2206-01\A100.dwg



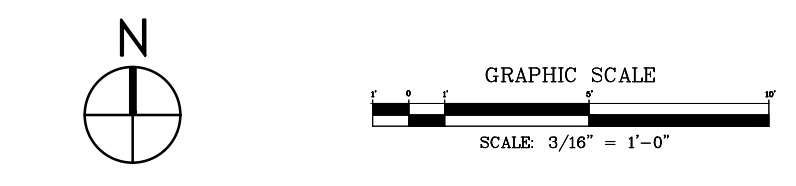
**1 FLOOR PLAN - ALT. 3**  
 A102 SCALE: 3/16" = 1'-0"



**2 ROOF PLAN - ALT. 3**  
 A102 SCALE: 3/16" = 1'-0"



**3 SOUTH ELEVATION PHOTO REFERENCE - ALT. 3**  
 A102 SCALE: 3/16" = 1'-0"



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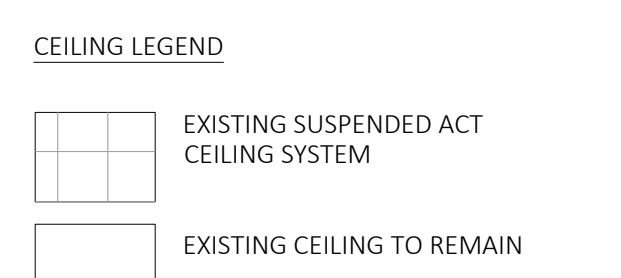
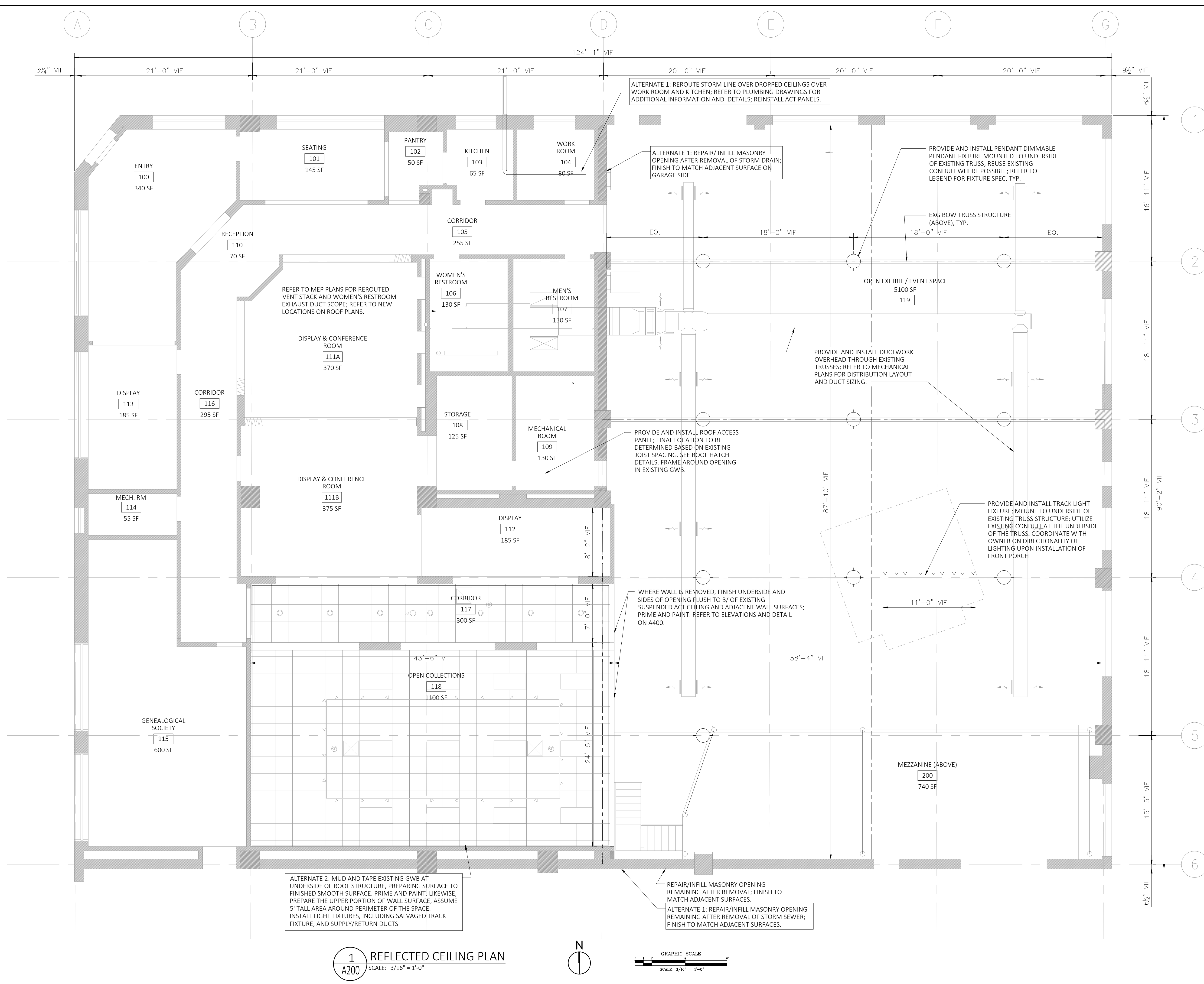
**ALTERNATE 3 PLANS**

PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
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 SCALE: PER DWG

**A102**

S:\JOB\2206-01\A102.dwg





- GENERAL RCP NOTES**
- COORDINATE ALL WORK WITH MEP DRAWINGS.
  - ALL LIGHT FIXTURES AND MISC. EQUIPMENT ON CEILING ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED; PROTECT DURING CONSTRUCTION AND ANY CEILING TILE REPLACEMENT WORK.

- NEW LIGHT FIXTURE LEGEND:**
- NEW PENDANT MOUNTED TO UNDERSIDE OF TRUSS, PROVIDE BARNLIGHT ELECTRIC COMPANY ORIGINAL WAREHOUSE PENDANT LIGHT, BLE-C-WH520-300-SBK-105-NA-E26, OR EQUAL. LIGHTS TO BE DIMMABLE.
  - NEW TRACK LIGHT MOUNTED TO UNDERSIDE OF TRUSS, PROVIDE LITHONIA LIGHTING MESH BACK TRACK KIT LTKMSBK WITH NINE (9) MR16GU10 LED LAMPS IN BLACK, OR EQUAL. LIGHTS TO BE DIMMABLE.

NOTE: ALL CEILING MOUNTED FIXTURES AND EQUIPMENT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. CAREFULLY REMOVE, SALVAGE, AND REINSTALL WHERE NECESSARY TO COMPLETE SCOPE OF WORK. REVIEW ALTERNATE 2 SCOPE AND PROVIDE PRICING.

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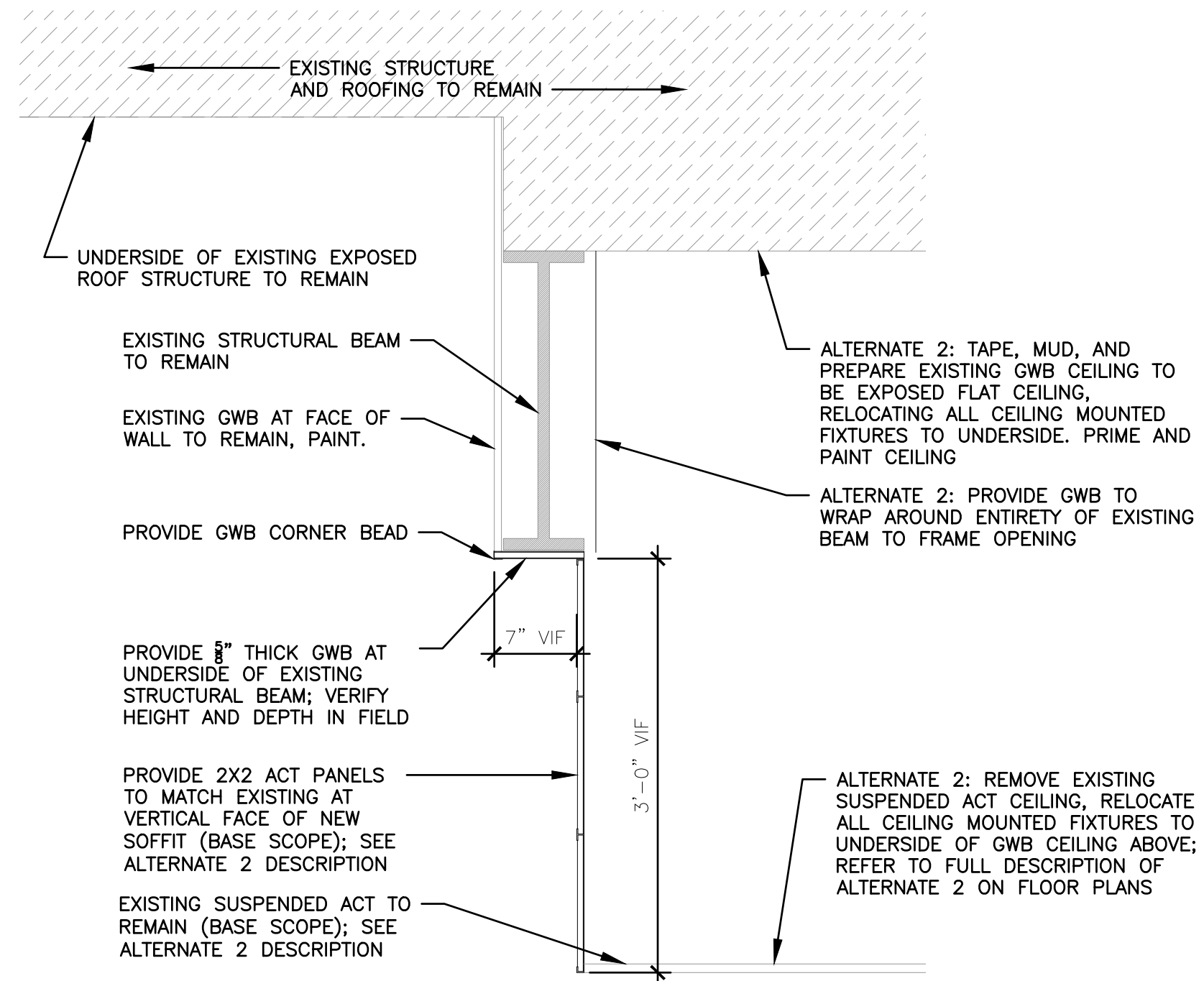
Seal/Drawing Status:  
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**REFLECTED CEILING PLAN**

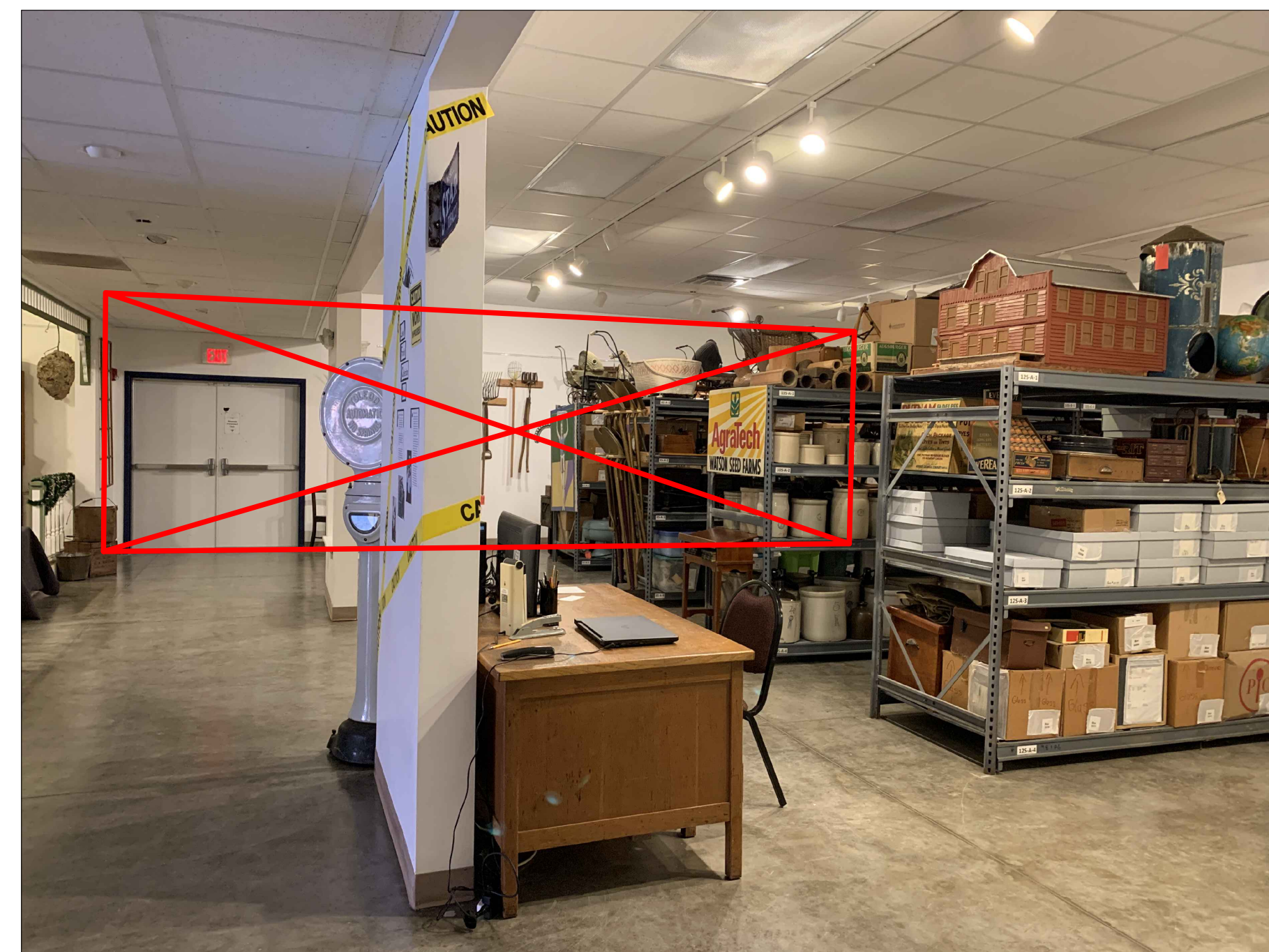
PROJECT NUMBER: 2206-01  
DATE: 01/27/2023  
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CHECKED BY: HZ  
SCALE: PER DWG

**A200**

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5 SECTION THRU NEW OPENING - BASE SCOPE  
A400 SCALE: 1/4" = 1'-0"

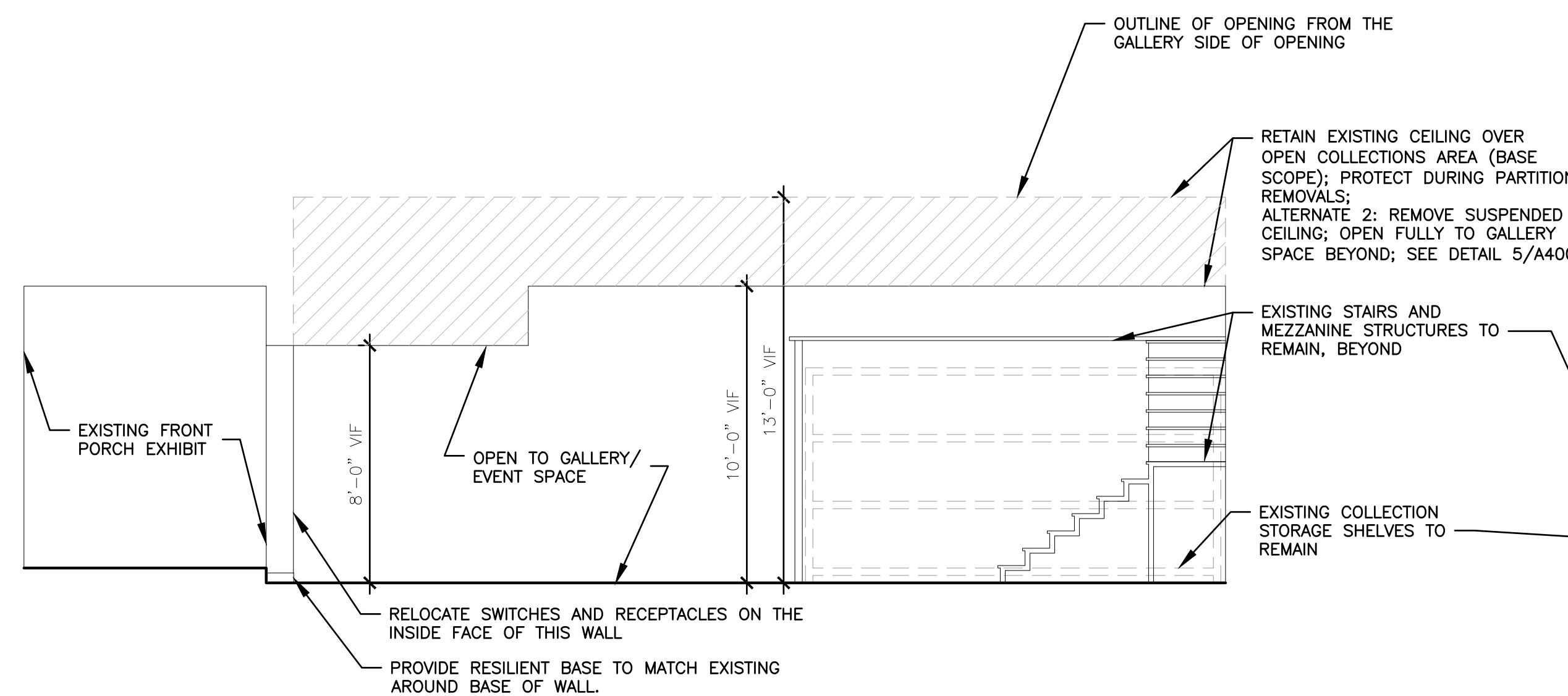


4 ELEVATION AT NEW OPENING - FROM WEST  
A400 SCALE: 1/4" = 1'-0"

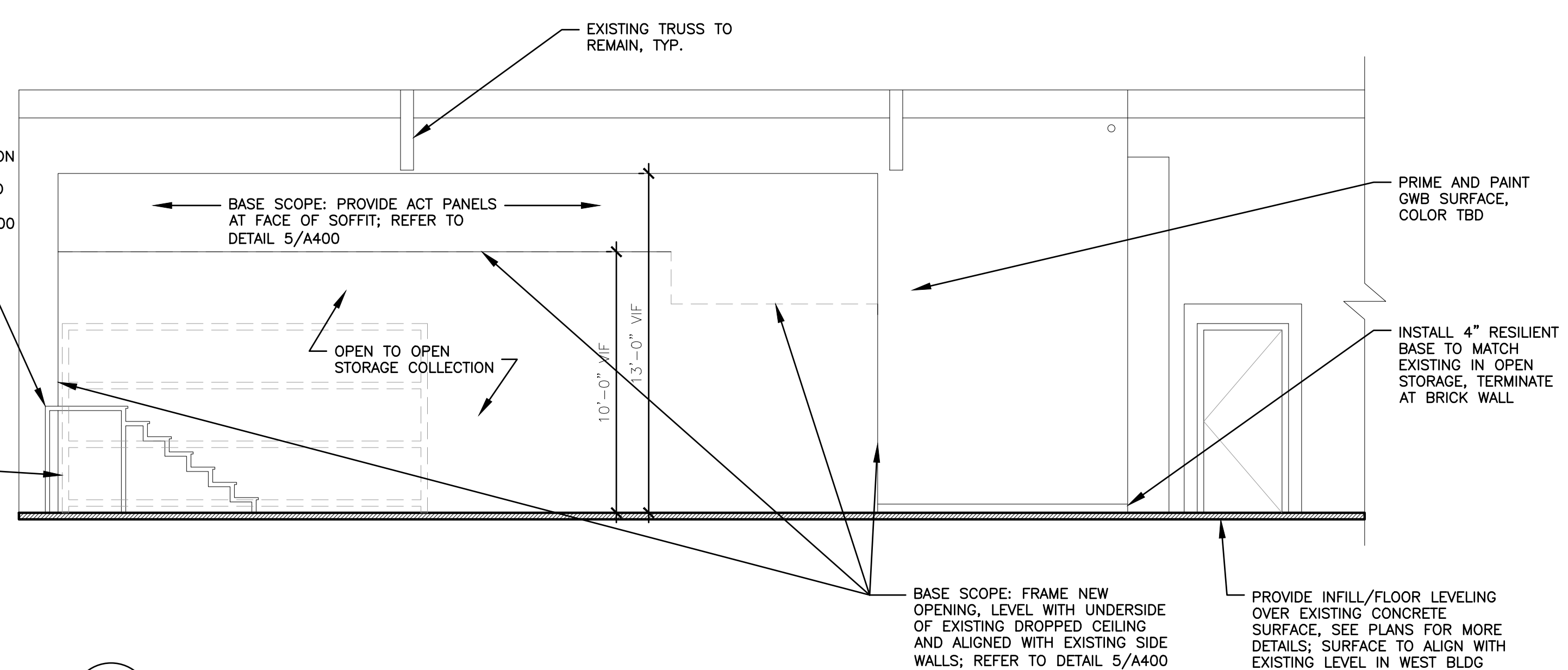


3 ELEVATION AT NEW OPENING - FROM EAST  
A400 SCALE: 1/4" = 1'-0"

BASE SCOPE: EXISTING STORM DRAIN TO REMAIN; ALTERNATE 1: REMOVE AND REROUTE EXISTING STORM; REFER TO PLANS FOR SCOPE.



2 ELEVATION AT NEW OPENING - FROM WEST  
A400 SCALE: 1/4" = 1'-0"



1 ELEVATION AT NEW OPENING - FROM EAST  
A400 SCALE: 1/4" = 1'-0"

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INTERIOR ELEVATIONS

PROJECT NUMBER: 2206-01  
DATE: 01/27/2023  
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A400

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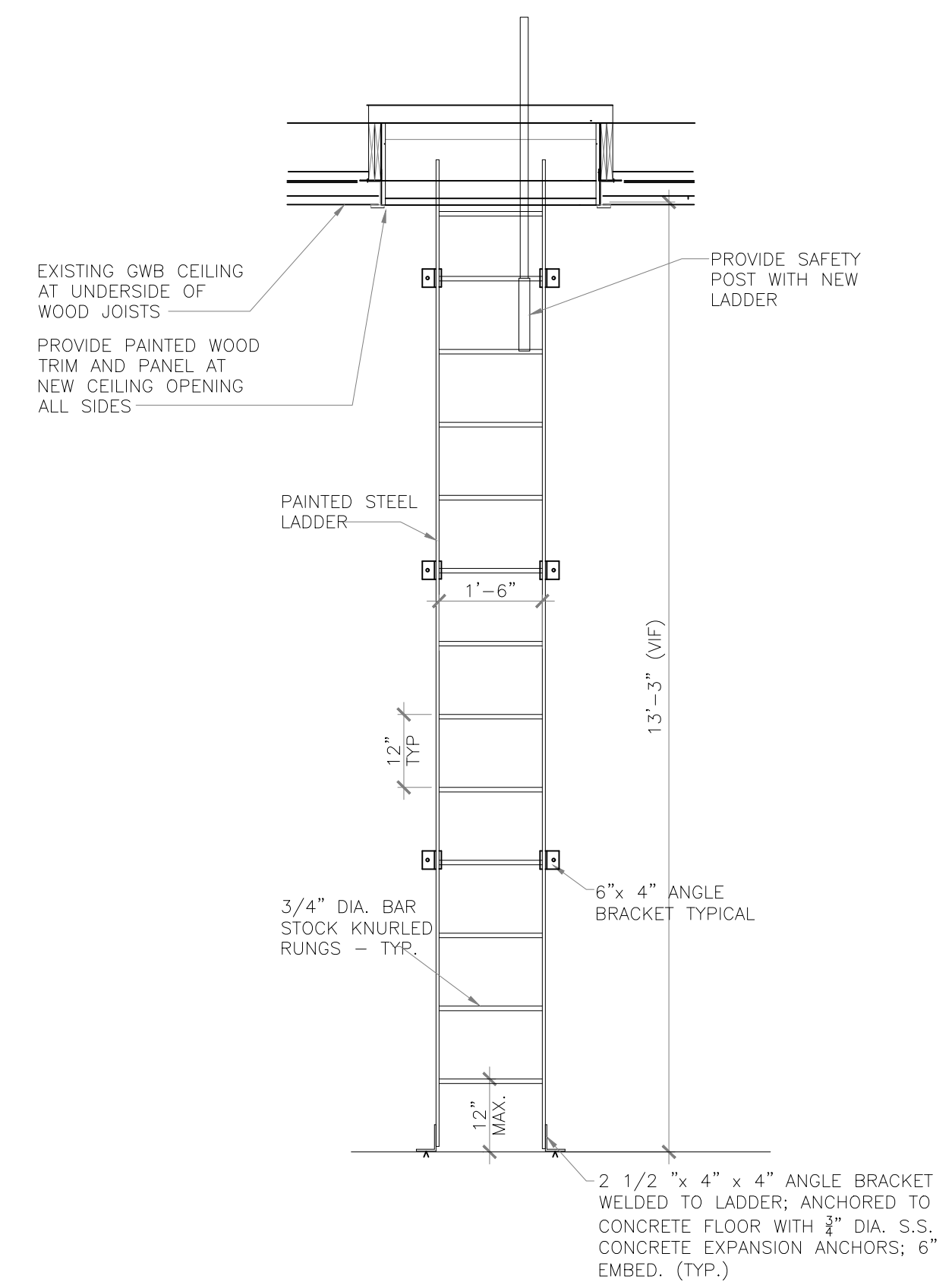
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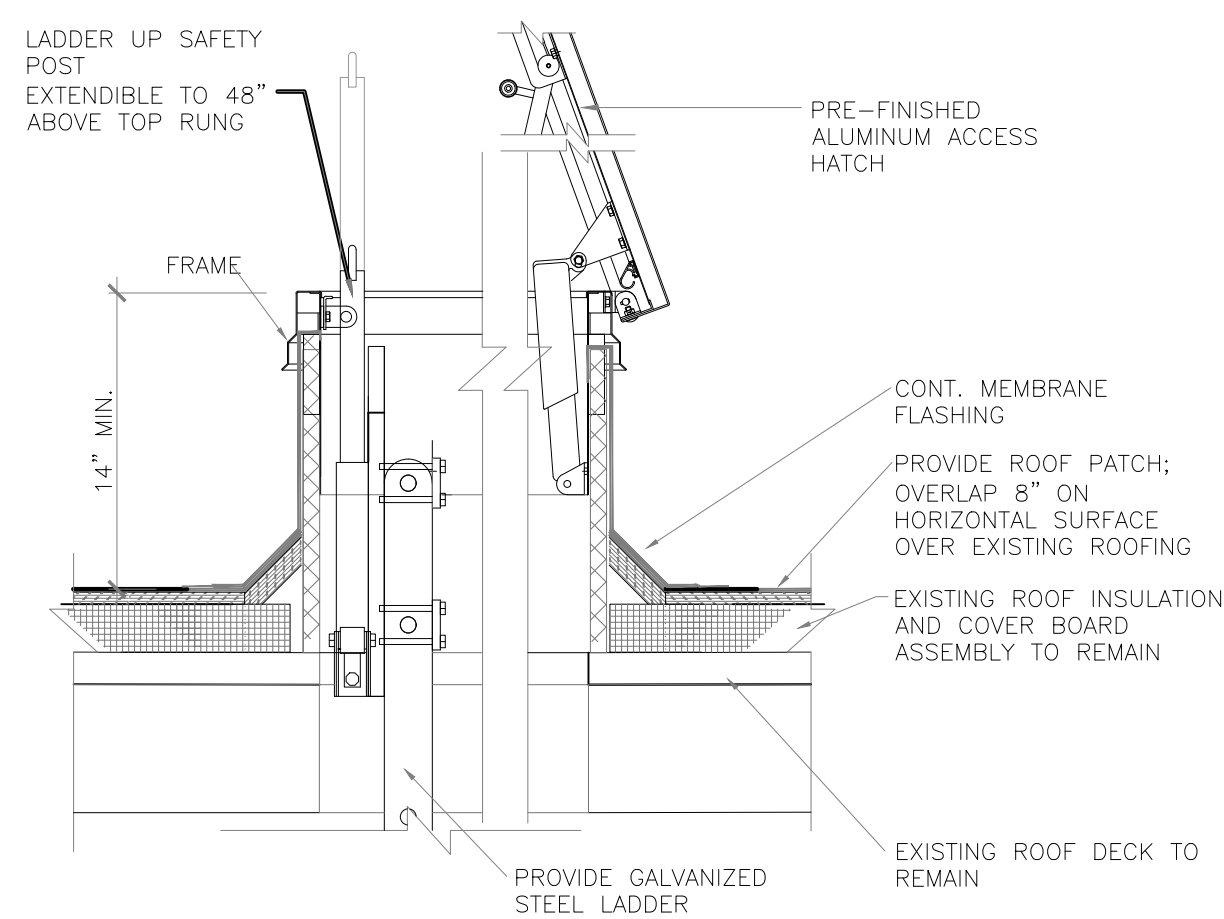
**DETAILS**

PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
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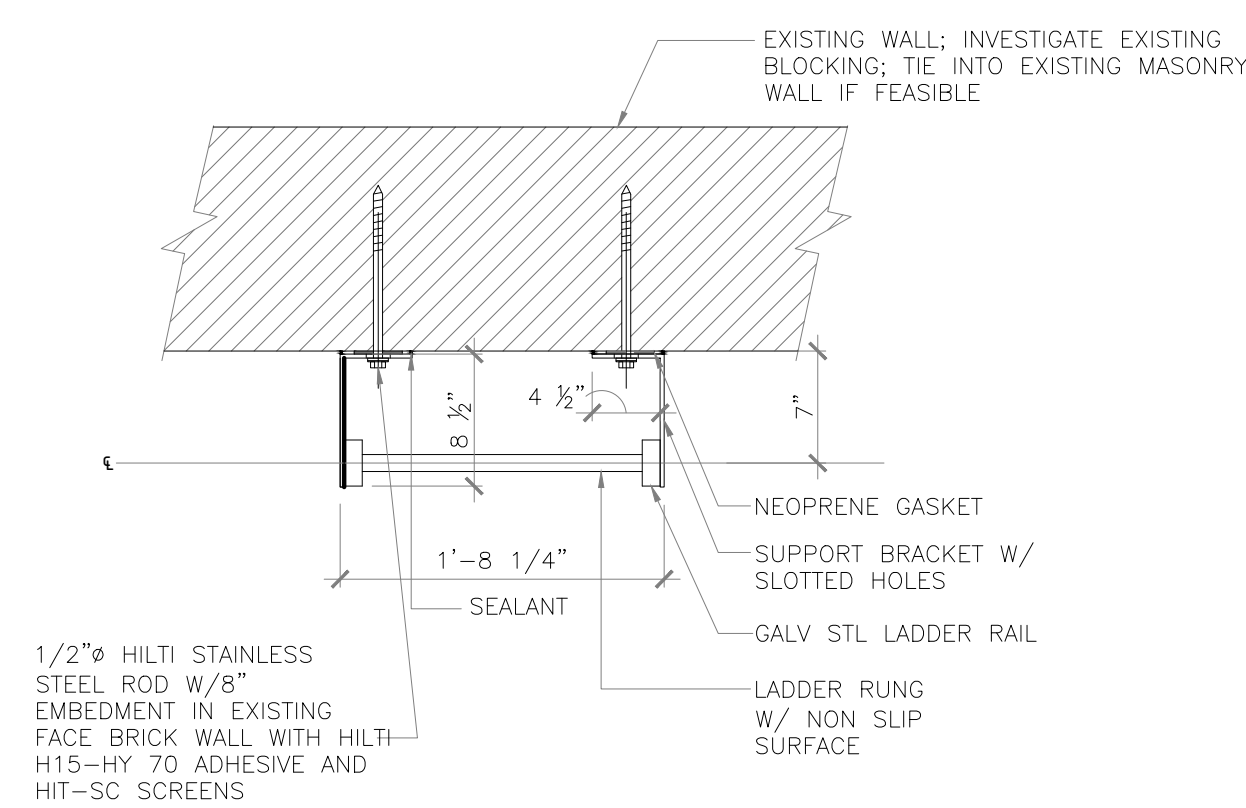
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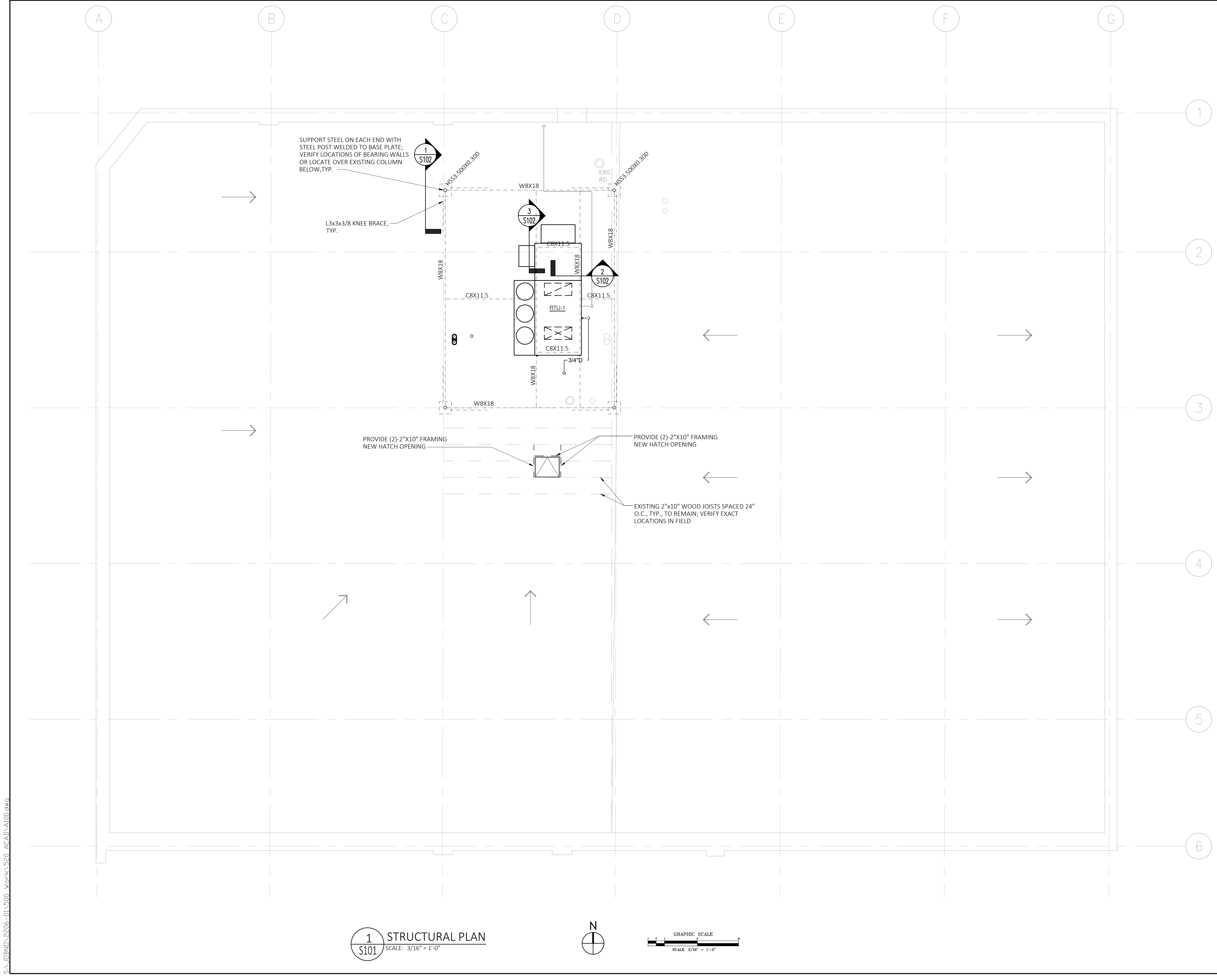
**1 ROOF ACCESS ELEVATION AND SECTION**  
 SCALE: 1/2" = 1'-0"



**2 HATCH DETAIL SECTION**  
 SCALE: 1" = 1'-0"



**3 ROOF LADDER PLAN**  
 SCALE: 1" = 1'-0"



- GENERAL ROOF NOTES:**
1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.
  2. CONTRACTOR SHALL COORDINATE ALL REMOVAL WITH THE REQUIREMENTS OF NEW CONSTRUCTION.
  3. CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING BUILDING COMPONENTS TO REMAIN.
  4. REMOVE DEBRIS FROM ALL ROOF SURFACES AND ROOF DRAINS FOLLOWING COMPLETION OF WORK.
  5. ROOF PATCHING MATERIALS ARE TO BE COMPATIBLE WITH EXISTING ROOFING MATERIALS.

- STEEL SUPPORT NOTES:**
1. THE STEEL SIZES AND CONFIGURATIONS INDICATED ON THE STRUCTURAL DRAWINGS ARE CONJECTURAL. ALL BEARING CONDITIONS AND RESULTING SPANS MUST BE FIELD VERIFIED.
  2. THE STEEL SUPPORT STRUCTURE MUST BE ANALYZED AND DESIGNED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ILLINOIS. ASSURE THAT ALL LOADS ARE CARRIED TO THE FOUNDATION.
  3. ALL STEEL TO BE HOT DIP GALVANIZED, G90.

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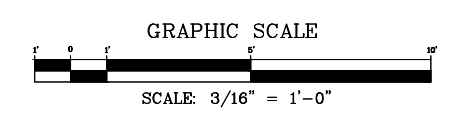
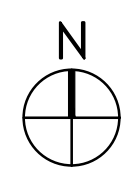
Seal/Drawing Status:  
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**STRUCTURAL PLAN**

PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: AS  
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 SCALE: PER DWG

**S101**

**1** STRUCTURAL PLAN  
 SCALE: 3/16" = 1'-0"



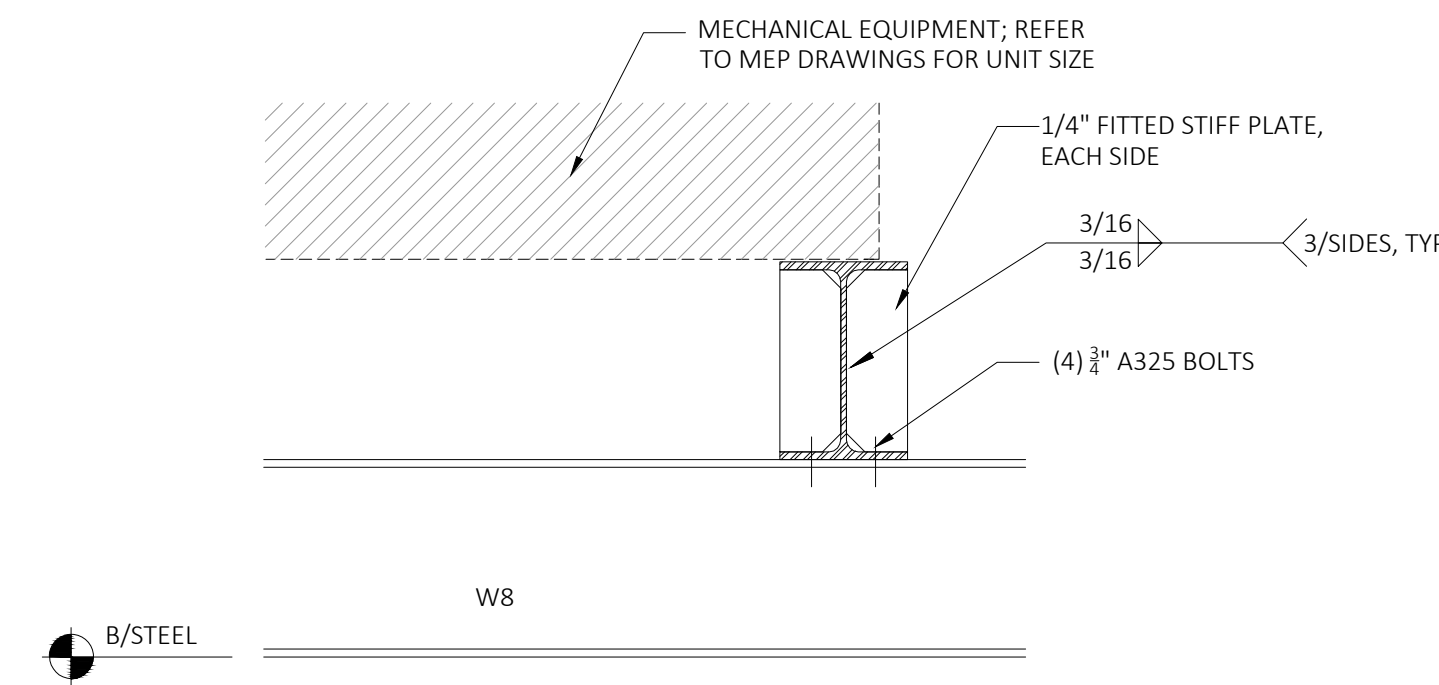
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GENERAL ROOF NOTES:

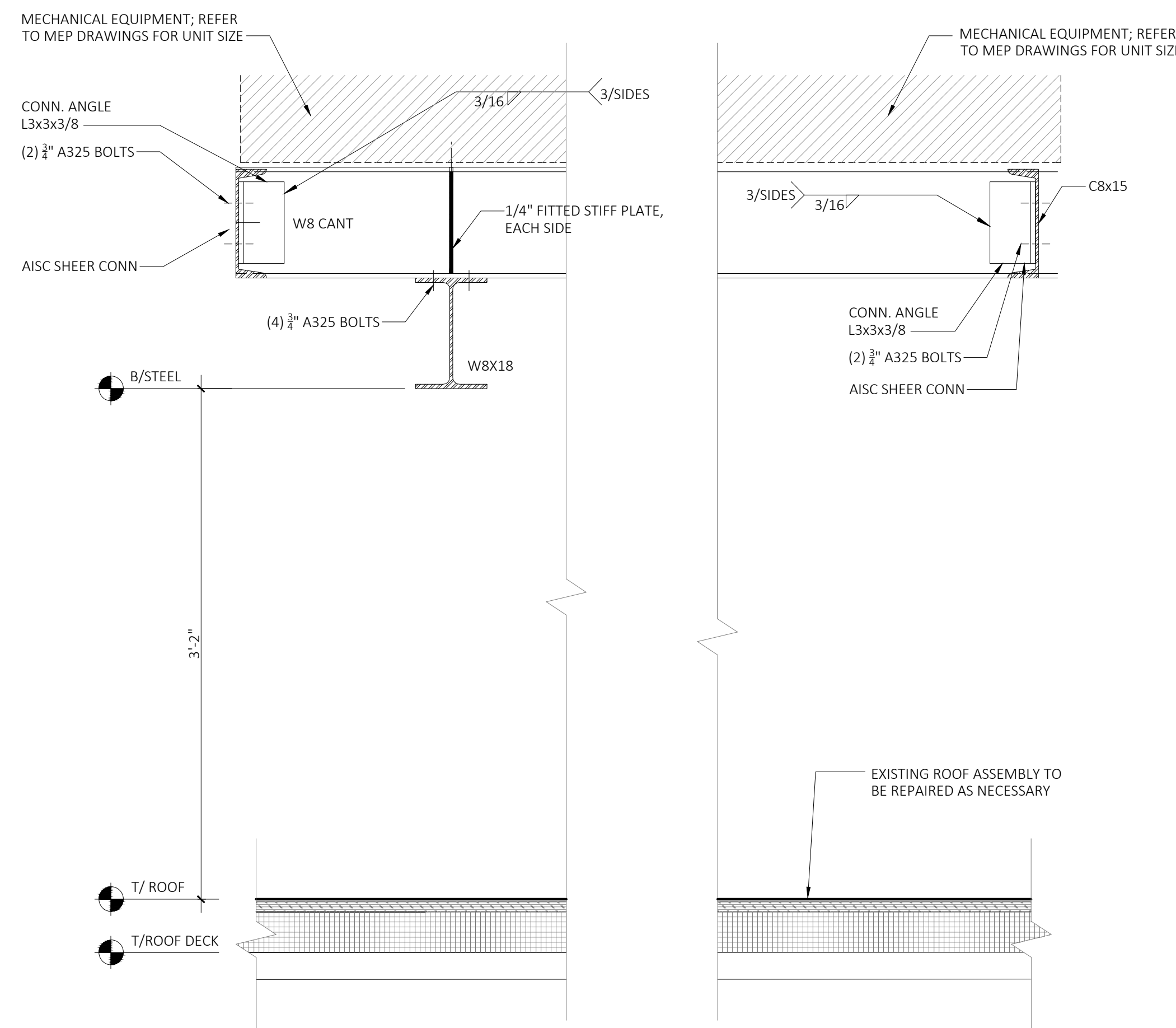
1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.
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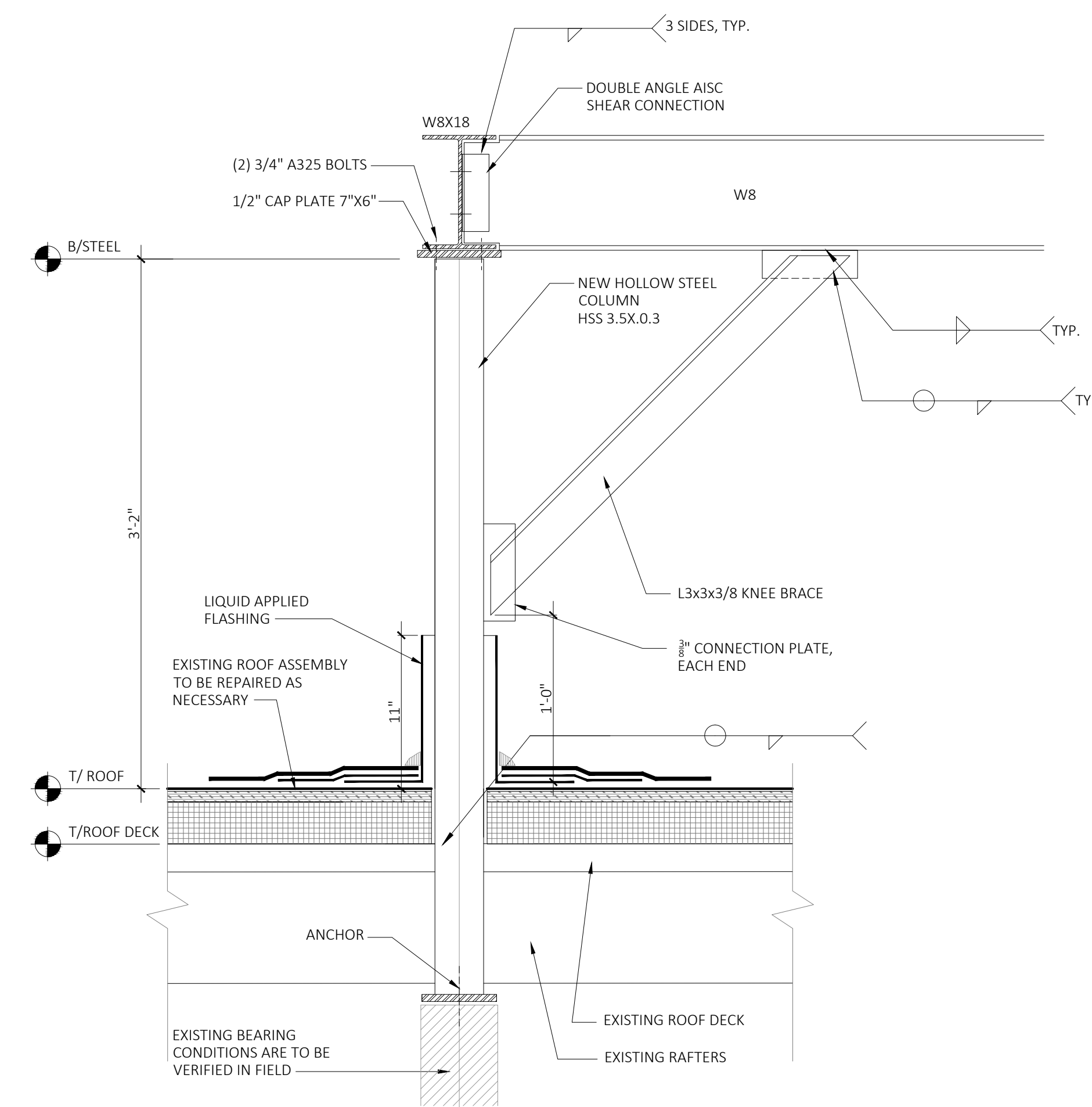
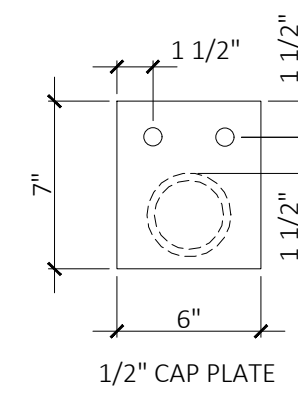
1. THE STEEL SIZES AND CONFIGURATIONS INDICATED ON THE STRUCTURAL DRAWINGS ARE CONJECTURAL. ALL BEARING CONDITIONS AND RESULTING SPANS MUST BE FIELD VERIFIED.
2. THE STEEL SUPPORT STRUCTURE MUST BE ANALYZED AND DESIGNED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ILLINOIS. ASSURE THAT ALL LOADS ARE CARRIED TO THE FOUNDATION.
3. ALL STEEL TO BE HOT DIP GALVANIZED, G90.



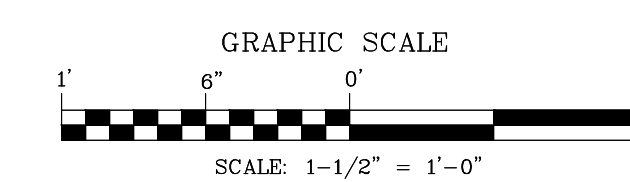
3 SECTION AT RTU  
S102 SCALE: 1 1/2" = 1'-0"



2 SECTION AT RTU  
S102 SCALE: 1 1/2" = 1'-0"



1 SECTION AT STEEL SUPPORT  
S102 SCALE: 1 1/2" = 1'-0"



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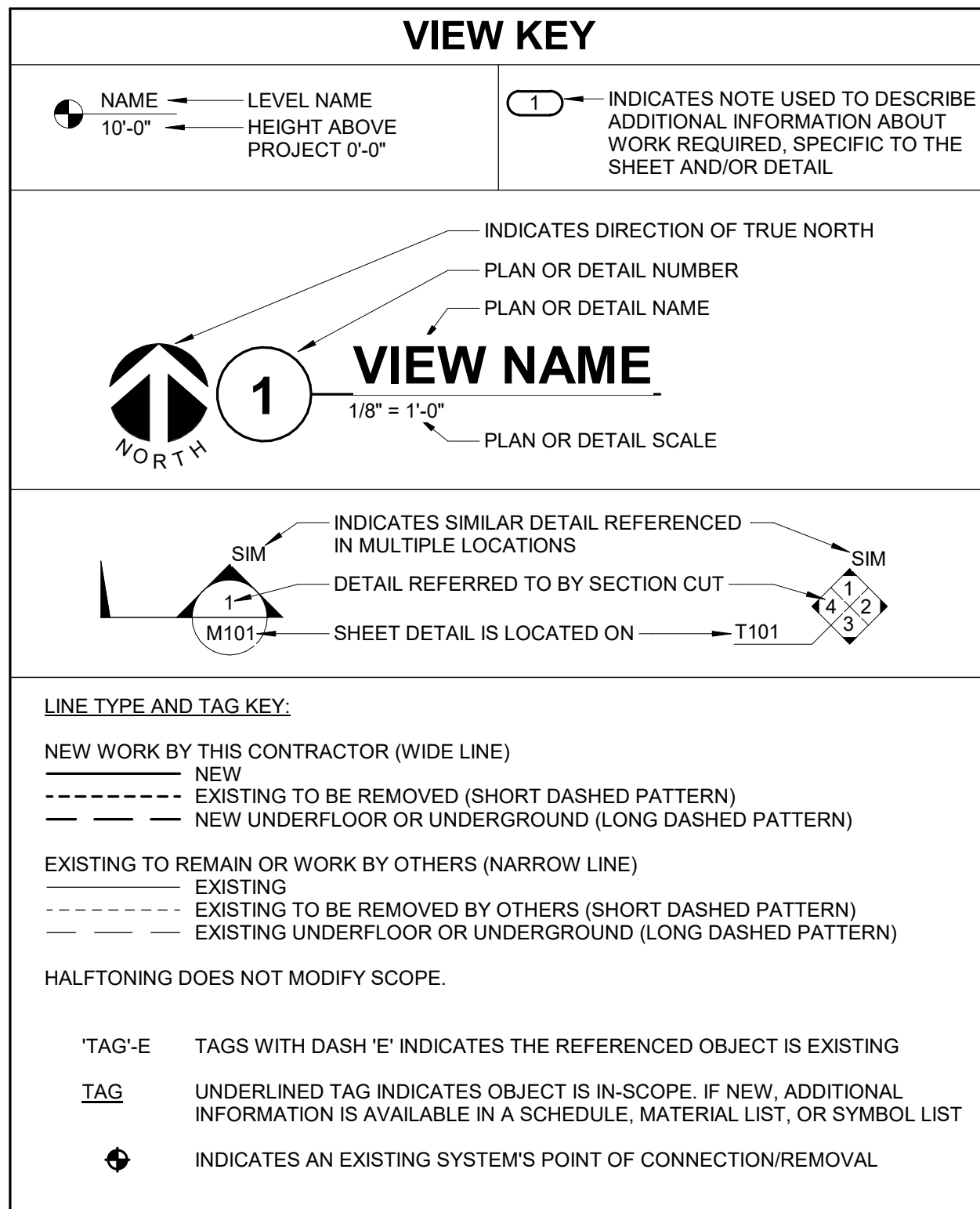
REVISION		
NO.	DATE	REMARKS

Seal/Drawing Status:  
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**STRUCTURAL DETAILS**

PROJECT NUMBER: 2206-01  
DATE: 01/27/2023  
DRAWN BY: AS  
CHECKED BY: HZ  
SCALE: PER DWG

**S102**



### APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2018 EDITION
FIRE CODE:	IFC 2018 EDITION
PLUMBING CODE:	ILLINOIS PLUMBING CODE
MECHANICAL CODE:	IMC 2018 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 CURRENT EDITION
ENERGY CONSERVATION CODE:	IECC 2018
LOCAL BUILDING CODE:	CURRENT EDITION

### CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
E.C.	ELECTRICAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR

### CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	MATT SNYDER
MECHANICAL	ERIC BUSCH
ELECTRICAL	ADAM BROCKMAN

### MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DRAIN - PLUMBING
	NATURAL GAS
	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
	METER
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	AIRFLOW MEASUREMENT SYMBOL
	XX - AHU SYMBOL
	Y - SEQUENTIAL NUMBER
	NORMAL CLOSED CONTACT
	NORMAL OPEN CONTACT
	MONITOR SWITCH
	DIFFERENTIAL PRESSURE SENSOR

### MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
E	EXISTING
FCO	FLOOR CLEANOUT
RA	RETURN AIR
SA	SUPPLY AIR
TYP	TYPICAL

### MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
  - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
  - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
  - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
  - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
  - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
  - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
  - CALLK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
  - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATER TIGHT.
  - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
  - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
  - MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
  - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
  - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

### PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACT 9.3874
- EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
- P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

### MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
  - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
  - FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
  - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
  - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

### VENTILATION GENERAL NOTES:

- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

### MECHANICAL SHEET INDEX

M002	MECHANICAL COVERSHEET
M101	FLOOR PLAN DEMOLITION - MECHANICAL
M211	FLOOR PLAN - VENTILATION
M221	ROOF PLAN - VENTILATION
M400	MECHANICAL DETAILS
M600	MECHANICAL SCHEDULES
P211	FLOOR PLAN - PLUMBING
P221	ROOF PLAN - PLUMBING
GRAND TOTAL: 8	

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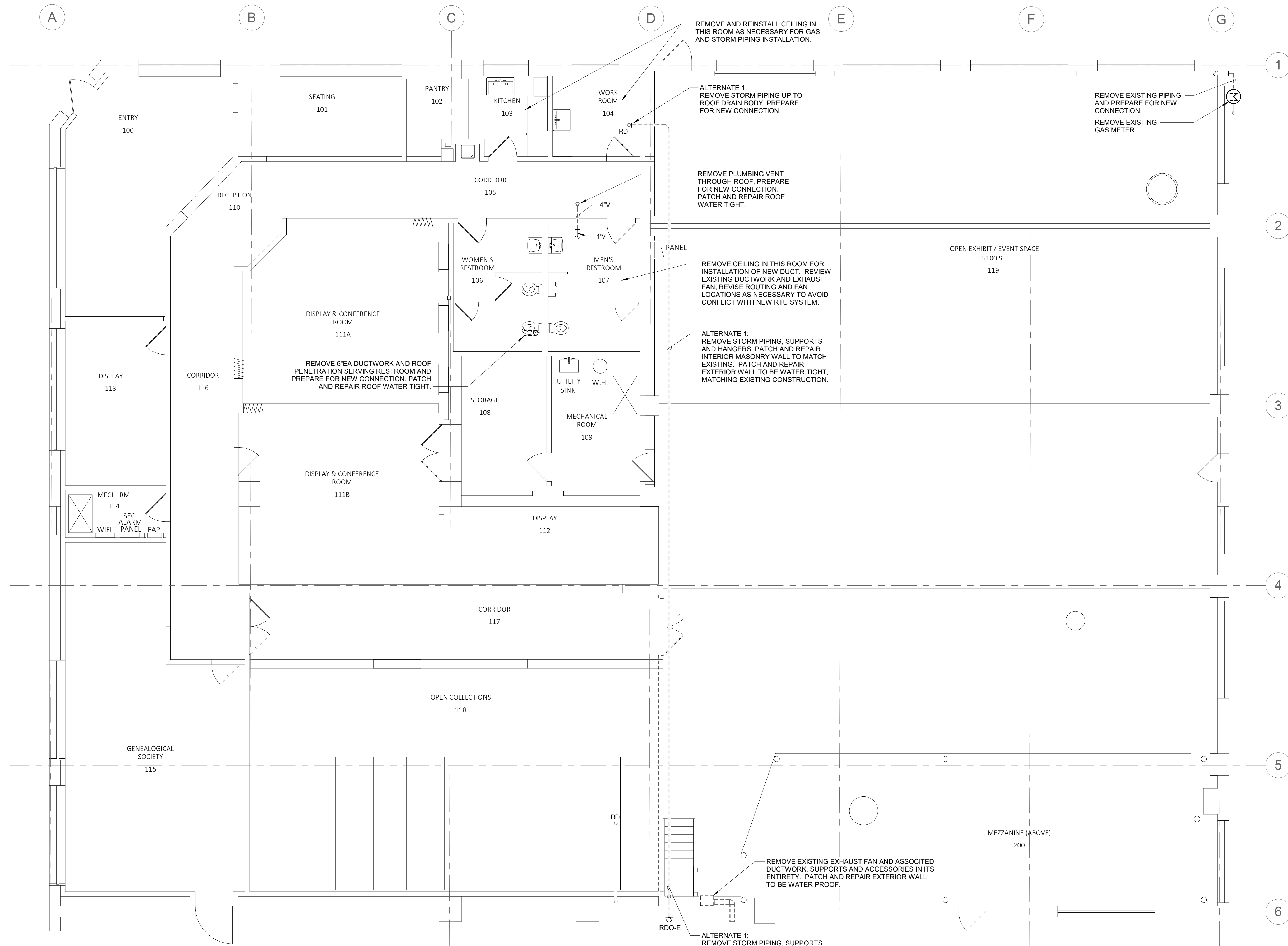
Seal/Drawing Status:  
**Not For Construction**  
Sheet Name  
**MECHANICAL COVERSHEET**

PROJECT NUMBER: 2206-01  
DATE: 01/27/2023  
DRAWN BY: Author  
CHECKED BY: Checker  
SCALE: As indicated

# M002

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REMOVE AND REINSTALL CEILING IN THIS ROOM AS NECESSARY FOR GAS AND STORM PIPING INSTALLATION.

ALTERNATE 1: REMOVE STORM PIPING UP TO ROOF DRAIN BODY. PREPARE FOR NEW CONNECTION.

REMOVE EXISTING PIPING AND PREPARE FOR NEW CONNECTION.  
REMOVE EXISTING GAS METER.

REMOVE PLUMBING VENT THROUGH ROOF. PREPARE FOR NEW CONNECTION. PATCH AND REPAIR ROOF WATER TIGHT.

REMOVE CEILING IN THIS ROOM FOR INSTALLATION OF NEW DUCT. REVIEW EXISTING DUCTWORK AND EXHAUST FAN. REVISE ROUTING AND FAN LOCATIONS AS NECESSARY TO AVOID CONFLICT WITH NEW RTU SYSTEM.

ALTERNATE 1: REMOVE STORM PIPING, SUPPORTS AND HANGERS. PATCH AND REPAIR INTERIOR MASONRY WALL TO MATCH EXISTING. PATCH AND REPAIR EXTERIOR WALL TO BE WATER TIGHT, MATCHING EXISTING CONSTRUCTION.

REMOVE 6" EA DUCTWORK AND ROOF PENETRATION SERVING RESTROOM AND PREPARE FOR NEW CONNECTION. PATCH AND REPAIR ROOF WATER TIGHT.

REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK, SUPPORTS AND ACCESSORIES IN ITS ENTIRETY. PATCH AND REPAIR EXTERIOR WALL TO BE WATER PROOF.

ALTERNATE 1: REMOVE STORM PIPING, SUPPORTS AND HANGERS. PATCH AND REPAIR EXTERIOR WALL TO BE WATER TIGHT, MATCHING EXISTING CONSTRUCTION.

NOTE: MECHANICAL CONTRACTOR SHALL PROVIDE FINAL DESIGN BUILD DRAWINGS FOR MECHANICAL SYSTEM AND ROUTING TO AOR FOR REVIEW

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**Sheet Name**  
FLOOR PLAN  
DEMOLITION -  
MECHANICAL

PROJECT NUMBER: 2206-01

DATE: 01/27/2023

DRAWN BY: Author

CHECKED BY: Checker

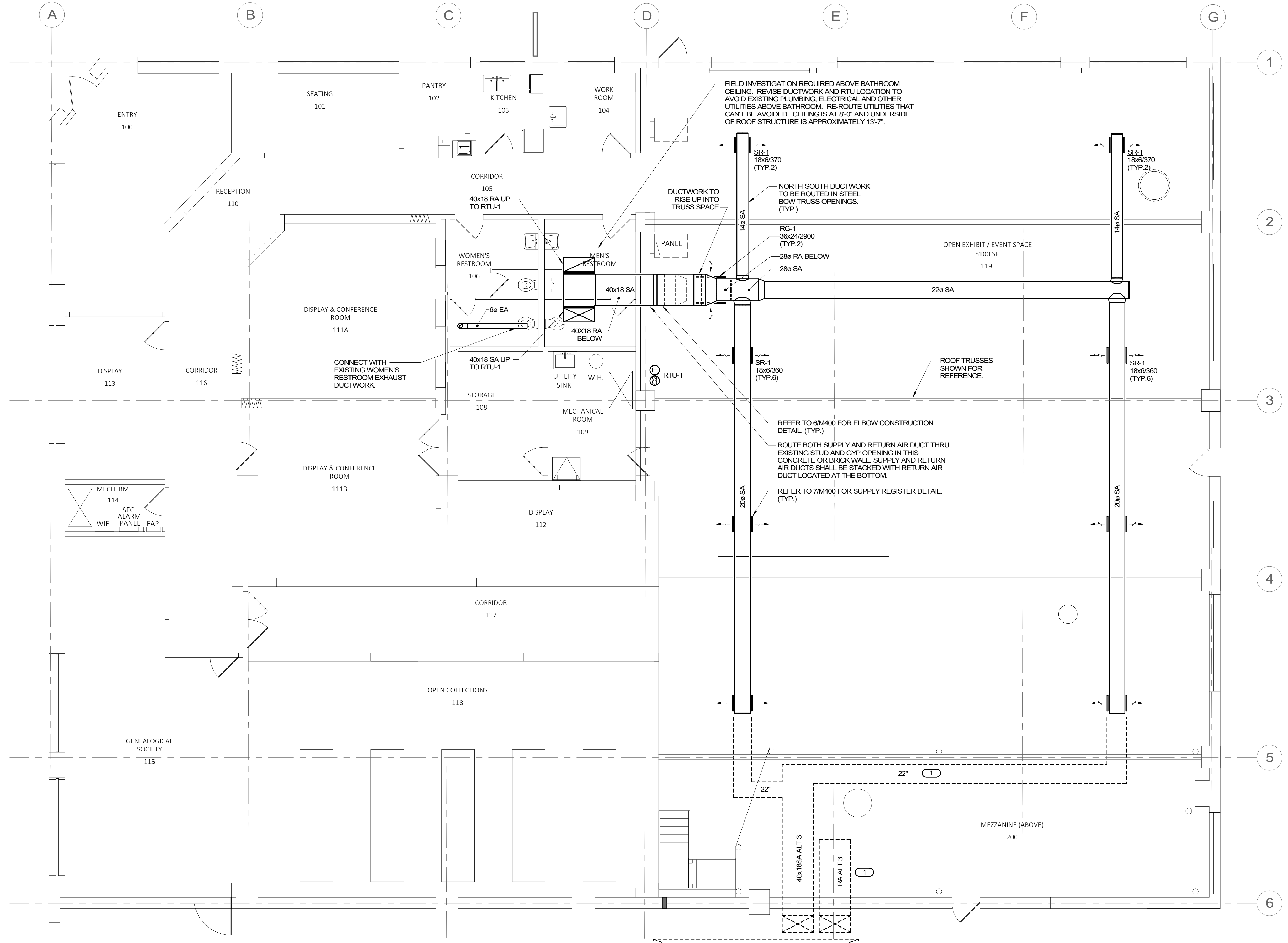
SCALE: 3/16" = 1'-0"

**M101**

**1 FLOOR PLAN DEMOLITION - MECHANICAL**  
3/16" = 1'-0"



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- KEYNOTES: #**
- ALTERNATE 3, PROVIDE ALTERNATE PRICING FOR THE FOLLOWING SCOPE MODIFICATION:
    - LOCATE AIR HANDLING UNIT ON GRADE IN LIEU OF ROOF. MODIFY RTU-1 FOR SIDE DUCT CONNECTIONS. CONCRETE HOUSEKEEPING PAD AND SCREENING ENCLOSURE BY G.C. REFER TO A201 FOR LOCATION DETAILS.
    - REVISE DUCTWORK AS INDICATED BY DASHED LINEWORK.
    - REMOVE ALL MECHANICAL AND PLUMBING SCOPE ASSOCIATED WITH THE ROOF AND RESTROOMS.
    - REVISE ROUTE OF GAS PIPING ON P211 AND P221 TO ROUTE INSIDE BUILDING OVER TO NEW AHU LOCATION.

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**Sheet Name**  
**FLOOR PLAN - VENTILATION**

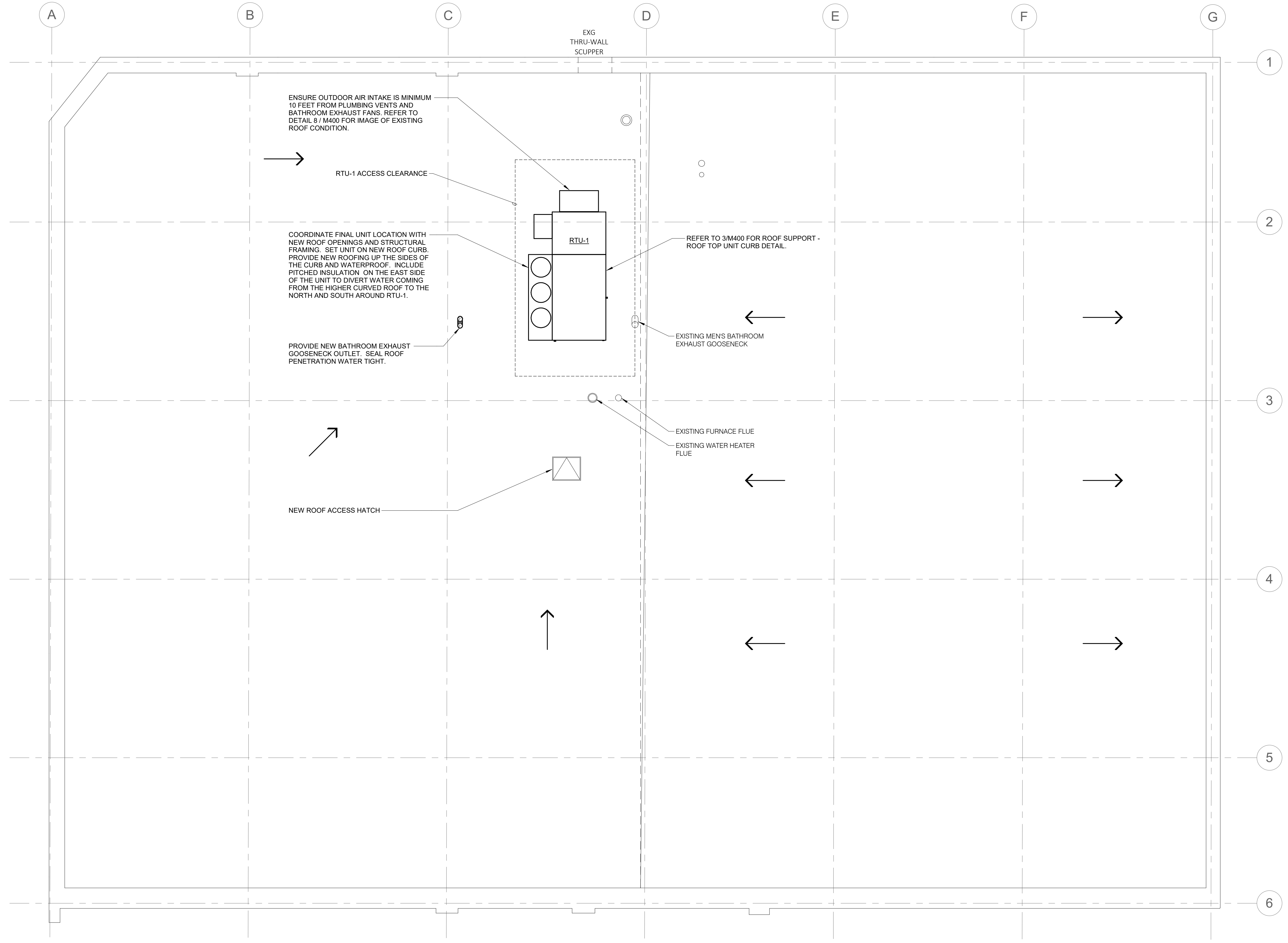
PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: Author  
 CHECKED BY: Checker  
 SCALE: 3/16" = 1'-0"

**M211**

**1 FLOOR PLAN - VENTILATION**  
 3/16" = 1'-0"

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NO.	DATE	REMARKS

Seal/Drawing Status:

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Sheet Name  
**ROOF PLAN - VENTILATION**

PROJECT NUMBER: 2206-01  
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 CHECKED BY: Checker  
 SCALE: 3/16" = 1'-0"

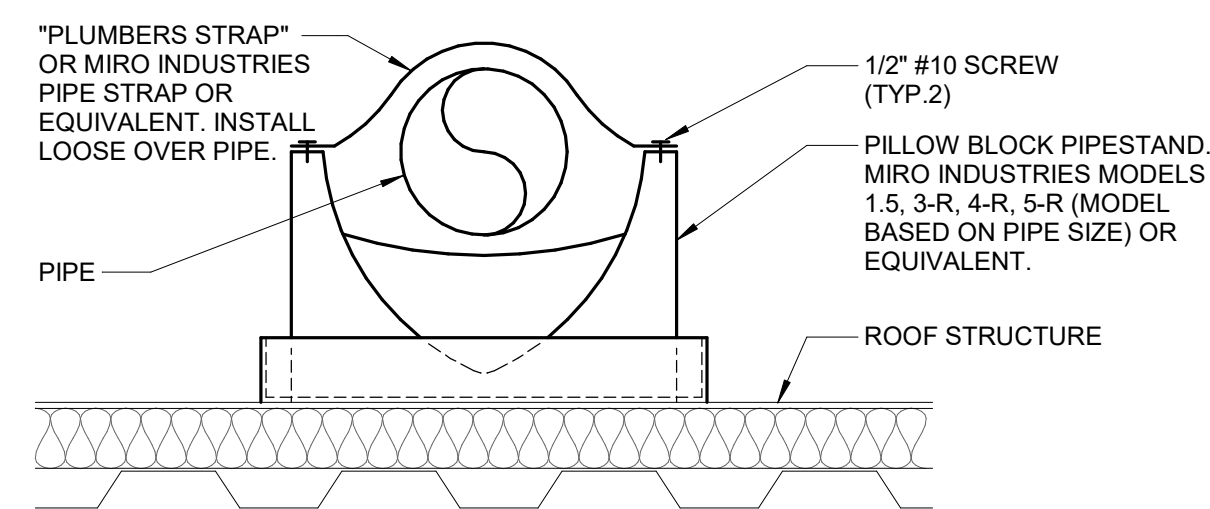
**M221**

**1 ROOF PLAN - MECHANICAL**  
 3/16" = 1'-0"

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REF. SCALE IN INCHES PROJECT #22001384.00

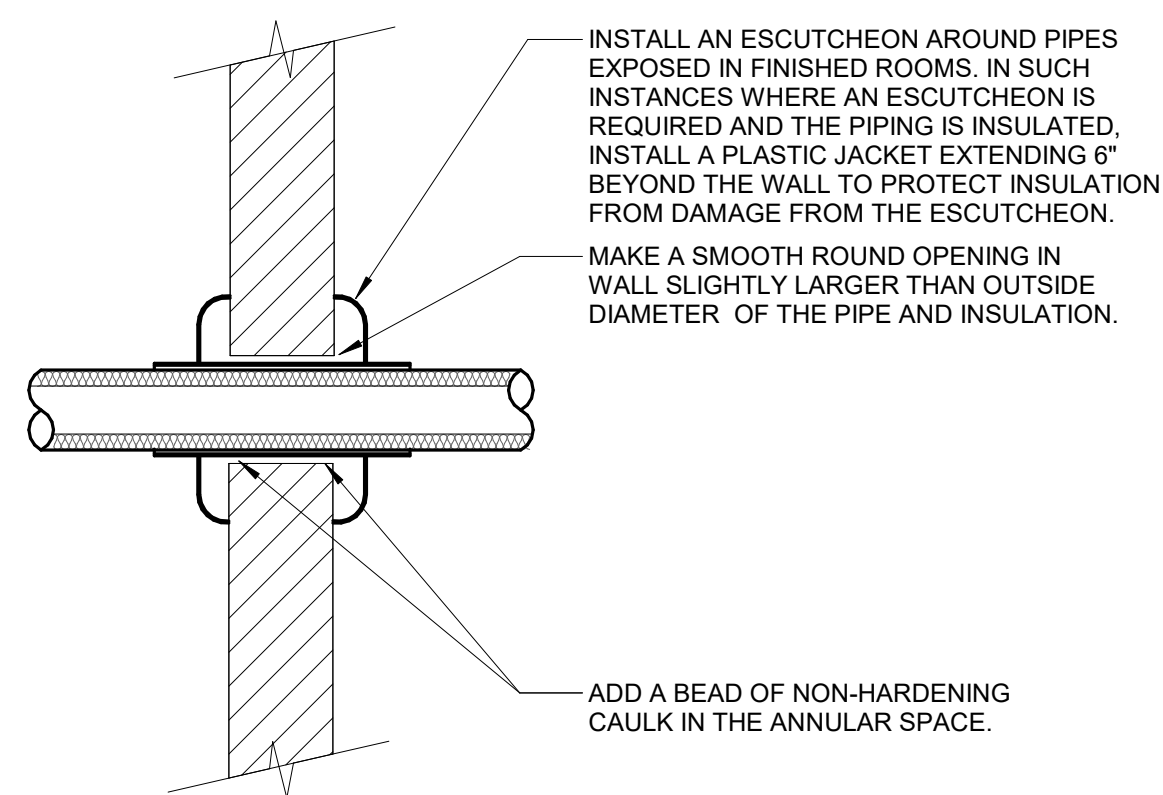


**NOTES:**

1. SPACE STANDS AS REQUIRED TO MEET MANUFACTURER'S RATED CAPACITIES.
2. COORDINATE PIPESTAND LOCATIONS WITH G.C.
3. PROVIDE EPDM PAD TO PROTECT ROOF IF REQUIRED BY ROOFING MANUFACTURER.
4. MIRO INDUSTRIES (800)768-6978.

**1 ROOF SUPPORT - EXPOSED PIPING PILLOW BLOCK**

NO SCALE

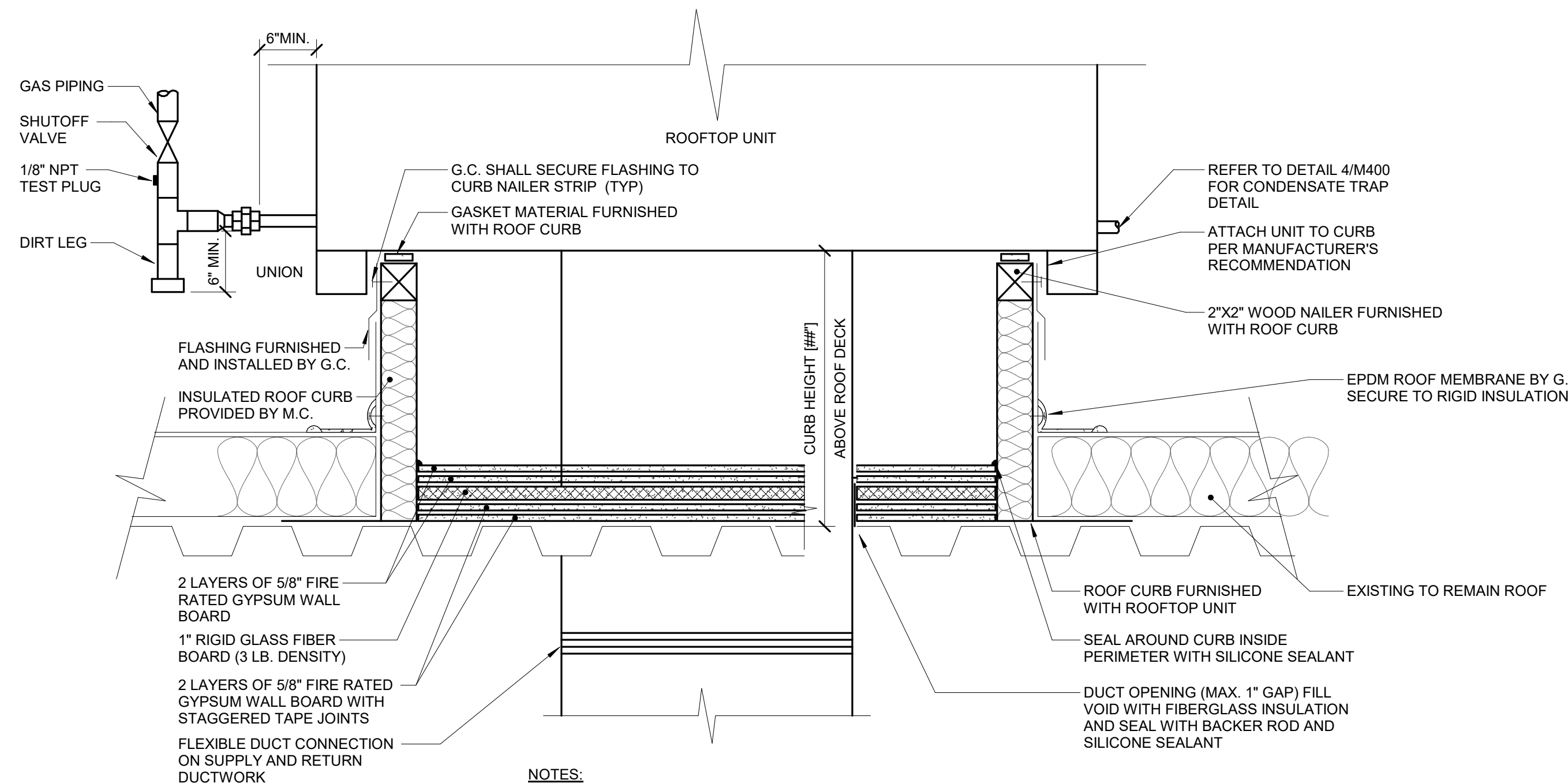


**NOTES:**

1. THIS DETAIL APPLIES TO ALL PIPES. THE INTENTION IS TO CONTINUE THE INSULATION AND VAPOR BARRIER THROUGH ALL PENETRATIONS. PERMIT THERMAL EXPANSION WITHOUT DAMAGING INSULATION, AND TO SEAL AIRTIGHT AROUND INSULATED AND UNINSULATED PIPES FOR NOISE TRANSMISSION CONTROL.
2. SEE SPECIFICATION SECTIONS (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR ADDITIONAL INFORMATION.
3. FLOOR OPENINGS ARE SIMILAR. SEE SPECIFICATION SECTION (SECTION 22 05 29 - PLUMBING, SECTION 23 05 29 - HVAC) FOR DIFFERENCES BETWEEN FLOOR AND WALL PENETRATIONS.

**2 WALL PENETRATION - NON-FIRE RATED**

NO SCALE



**NOTES:**

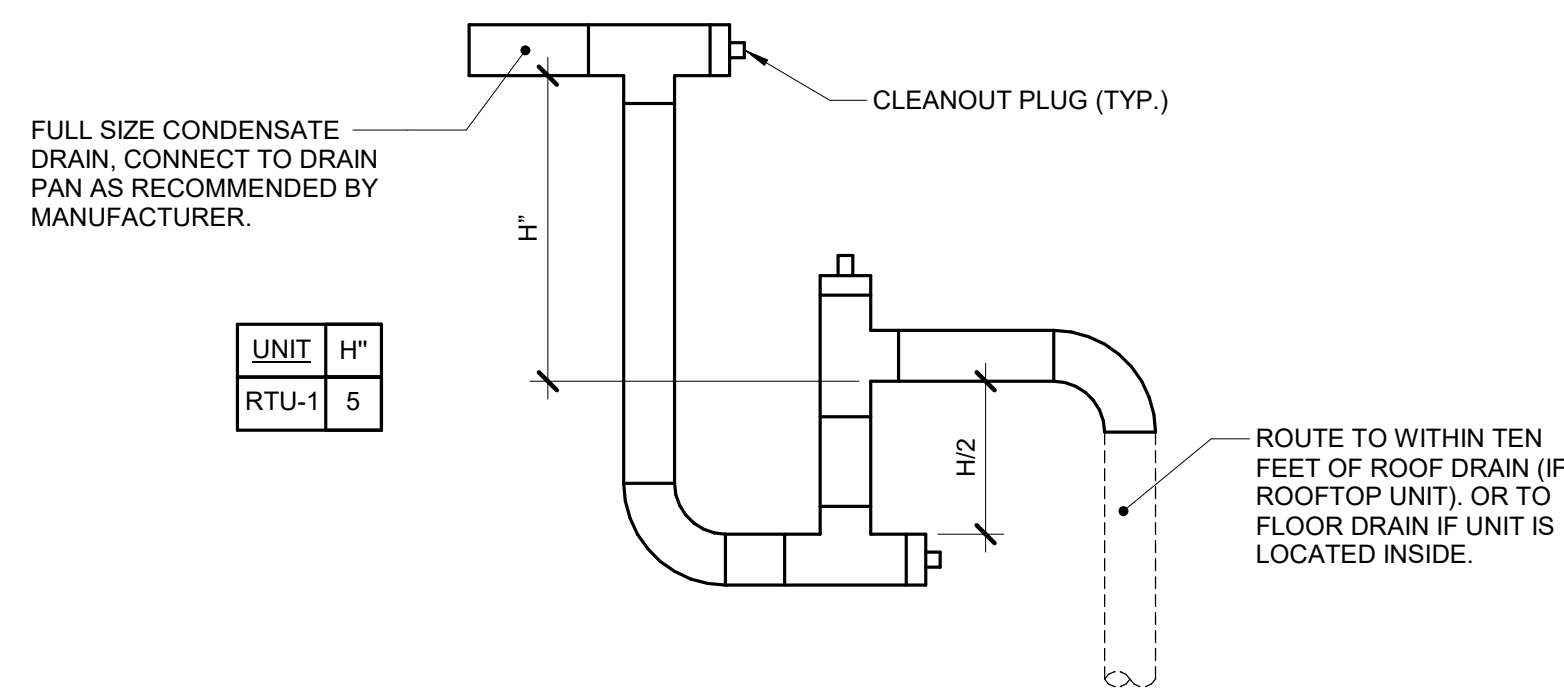
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.
2. ROOF CURB SHALL BE INSTALLED PER ROOF CURB MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12\"/>

**NOTE:**

REFER TO STRUCTURAL SHEET S101 FOR STEEL SUPPORT DIAGRAM AT RTU-1; RTU-1 SHALL BE SUPPORTED BY ADDITIONAL FRAMING ABOVE THE ROOF THAT MAY AFFECT THE DETAIL SHOWN HERE.

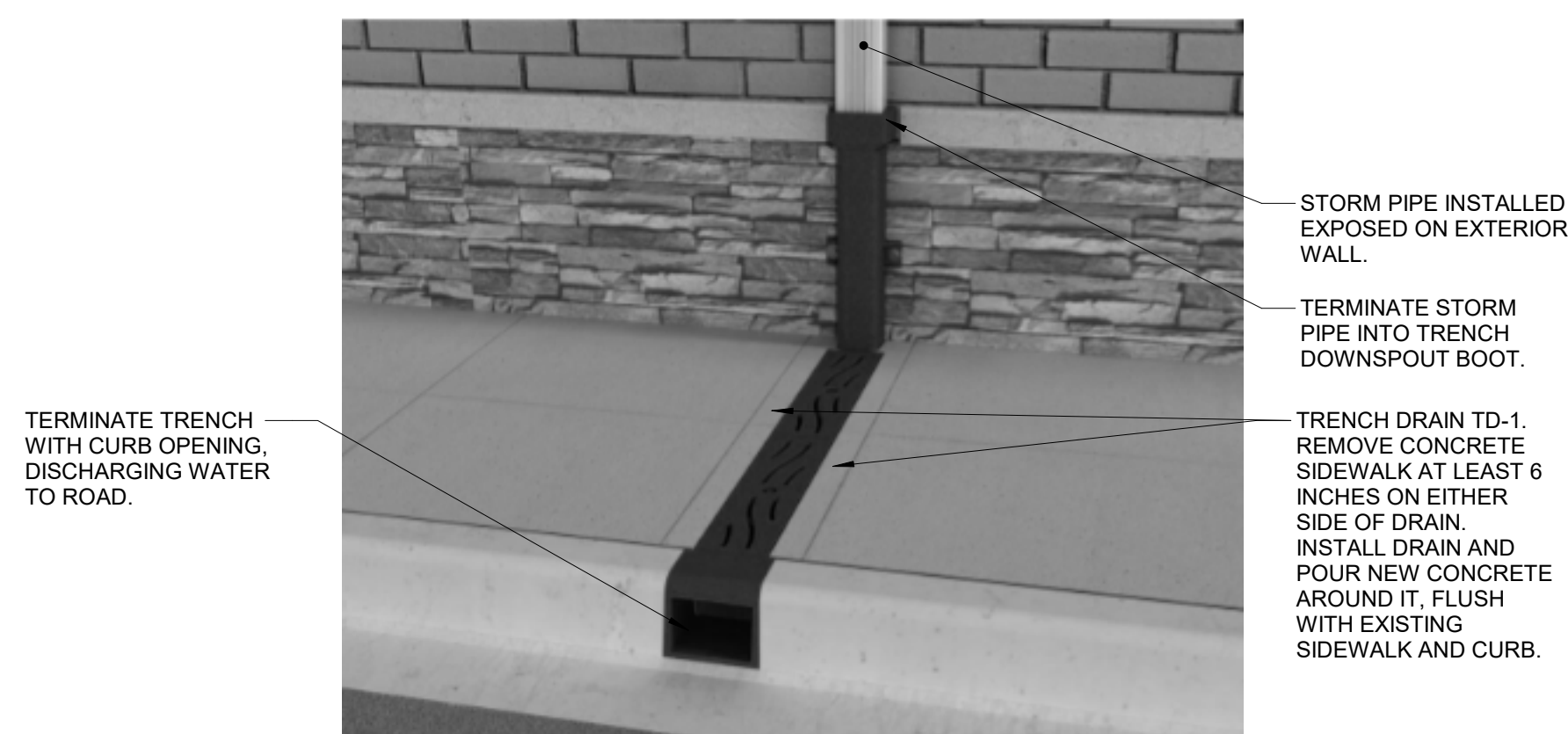
**3 ROOF SUPPORT - ROOF TOP UNIT CURB**

NO SCALE



**4 CONDENSATE TRAP DETAIL (DRAW-THROUGH)**

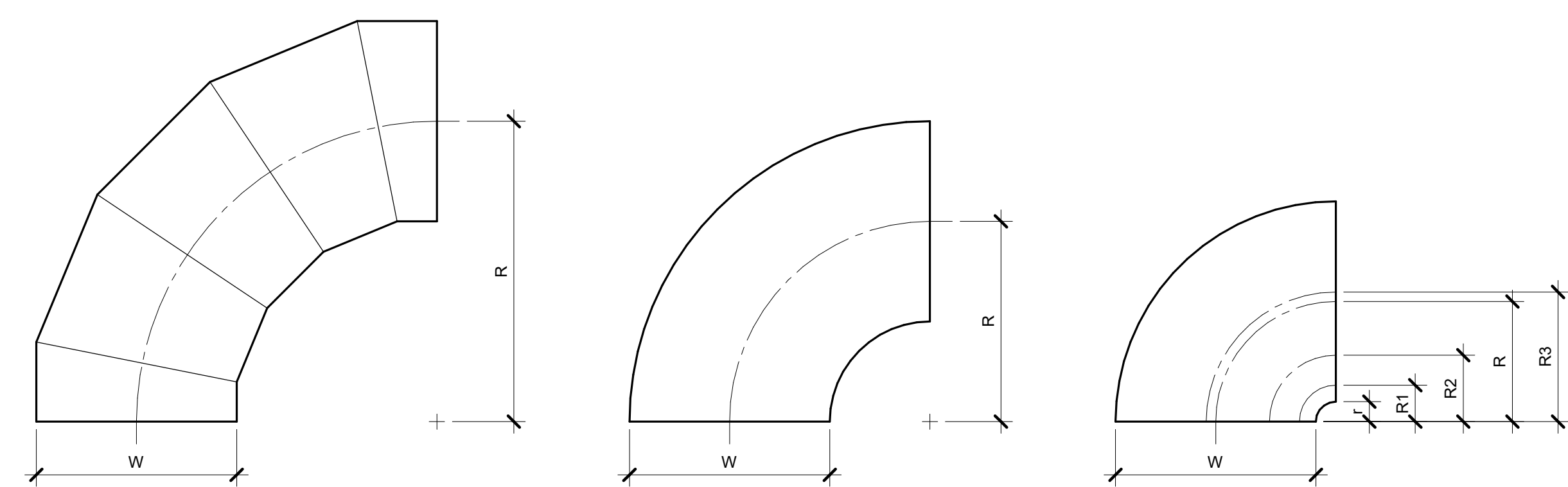
NO SCALE



NOTES: INCLUDE WITH ALTERNATE 1.

**5 TRENCH DRAIN AT SIDEWALK DETAIL**

NO SCALE

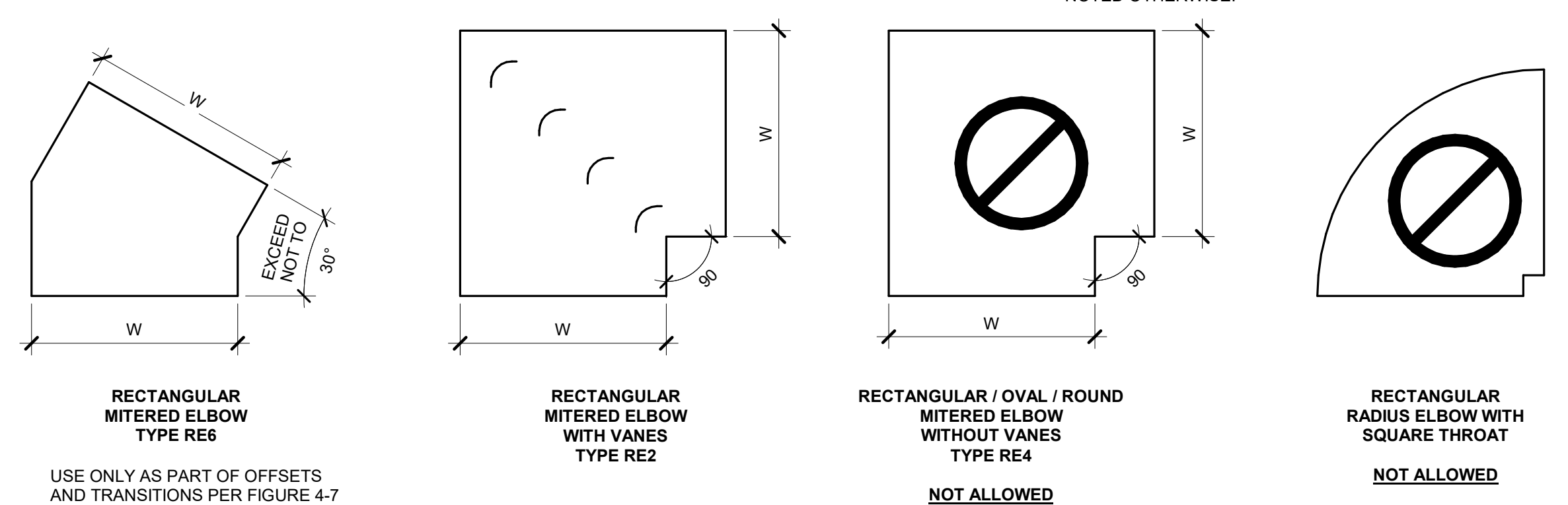


OVAL / ROUND RADIUS ELBOW SMOOTH OR 5 GORE (MINIMUM) R/W = 1.5 (MINIMUM) TYPE RE0

RECTANGULAR RADIUS ELBOW WITH VANES TYPE RE1 R/W = 1.0 (MINIMUM) R/W < 1.0 SHALL BE TYPE RE3

RECTANGULAR RADIUS ELBOW WITH VANES TYPE RE3

REFER TO SMACNA HVAC SYSTEMS DUCT DESIGN MANUAL, FOURTH EDITION, SECTION 5.14 "SPLITTER VANES" AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS, THIRD EDITION, FIGURES 4-2 AND 4-9 AND CHARTS 4-1 AND 4-1M. ELBOW SHALL HAVE THREE SPLITTER VANES AND r/W = 0.10 (R/W = 0.60) UNLESS NOTED OTHERWISE.



RECTANGULAR MITERED ELBOW TYPE RE6

RECTANGULAR MITERED ELBOW WITH VANES TYPE RE2

RECTANGULAR / OVAL / ROUND MITERED ELBOW WITHOUT VANES TYPE RE4 NOT ALLOWED

RECTANGULAR RADIUS ELBOW WITH SQUARE THROAT NOT ALLOWED

**NOTES:**

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

**6 ELBOW CONSTRUCTION**

NO SCALE



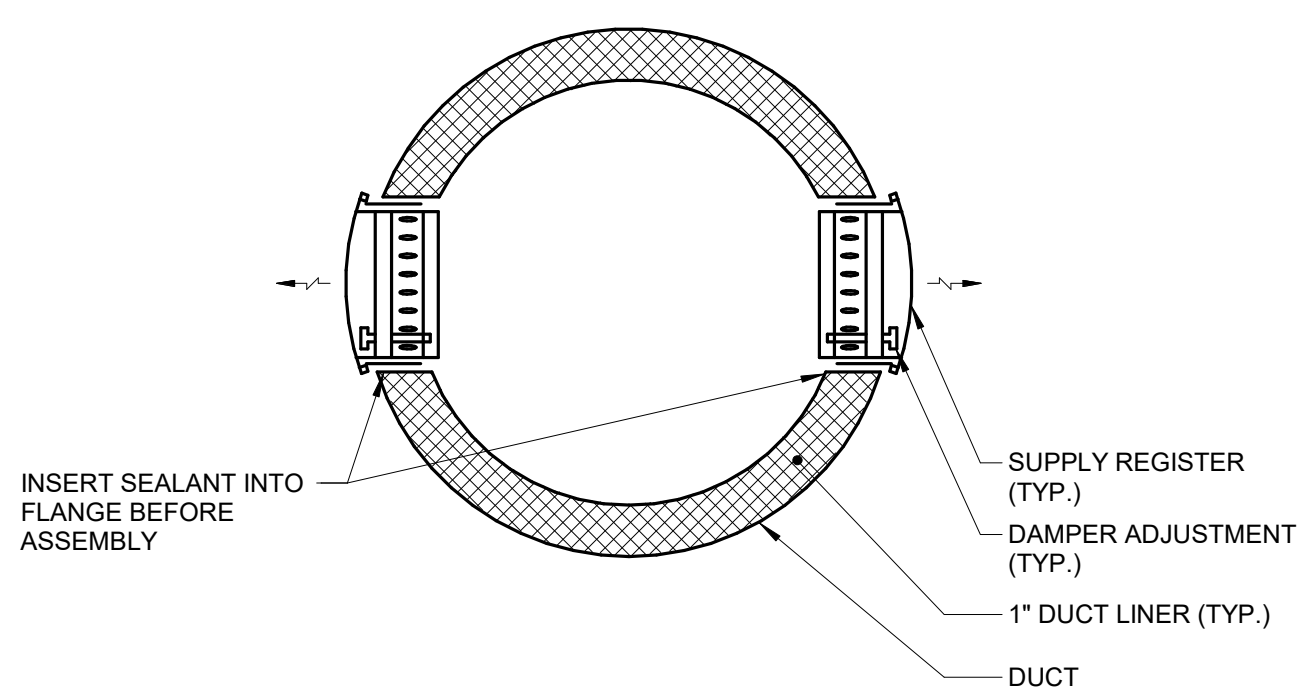
NOTES: IMAGE OF EXISTING ROOF CONDITION PROVIDED FOR REFERENCE

BATHROOM EXHAUST GOOSENECK TO BE RELOCATED.

PLUMBING VENT TO BE RELOCATED.

**8 ROOF VIEW**

NO SCALE



**7 SUPPLY REGISTER DETAIL**

NO SCALE

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NO.	DATE	REMARKS

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Sheet Name  
**MECHANICAL**  
DETAILS

PROJECT NUMBER: 2206-01

DATE: 01/27/2023

DRAWN BY: Author

CHECKED BY: Checker

SCALE: 12" = 1'-0"

**M400**

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**PACKAGED ROOFTOP UNIT SCHEDULE – GAS-DX**

NOTES:  
 1. POWER EXHAUST POWERED SEPARATELY.  
 2. TOTAL OPERATING WEIGHT INCLUDES UNIT, CURB, ACCESSORIES AND UNIT MOUNTED POWER EXHAUST. DUCT MOUNTED ACCESSORIES AND EQUIPMENT ARE NOT INCLUDED. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED DUE TO ROOFTOP UNIT HEAVIER THAN THE BASIS OF DESIGN AT NO ADDITIONAL COST.  
 3. PROVIDE SHAFT GROUNDING IF REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.  
 4. LAT LISTED IS AT LEAVING SIDE OF COOLING COIL.  
 5. PROVIDE PACKAGED ROOFTOP UNIT CONTROLS WITH UNIT BY MANUFACTURER. WIRE THERMOSTAT AS SHOWN ON FLOOR PLAN TO UNIT CONTROLS. NO EXISTING OR NEW BUILDING WIDE CONTROL SYSTEM.

TAG NAME	AREA SERVED	NOMINAL TONS	MINIMUM OUTSIDE AIR (CFM)	SUPPLY FAN (NOTE 3)							UNIT ELECTRICAL DATA			COOLING COIL - DX							HEATING - GAS							POWERED EXHAUST (NOTE 1 AND 3)					MAX DIMENSIONS			WEIGHT (NOTE 2)	MANUFACTURER	MODEL	NOTES					
				NO. OF FANS	CFM TOTAL	EXT. S.P. IN W.C.	R.P.M.	BHP EACH	MHP EACH	VOLTAGE	PHASES	MCA	MOCP	DISCONNECT(S)			EAT DB °F	EAT WB °F	LAT DB °F (NOTE 4)	LAT WB °F (NOTE 4)	SENSIBLE MBH	TOTAL MBH	AMB TEMP °F	MIN EFF AFUE	MIN INPUT MBH	MIN OUTPUT MBH	TURN DOWNSTEPS	FUEL PRESSURE PSI	SEER (EER)	FILTER TYPE	NO. OF FANS	CFM TOTAL	EXT. S.P. IN W.C.	RPM	BHP EACH	MHP EACH				CURB TYPE (NOTE G)	LENGTH	WIDTH	HEIGHT	UNIT WEIGHT
														BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)																												
RTU-1	OPEN EXHIBIT/EVENT SPACE	15	1600	1	5800	2.0	1718	5.4	7.5	208	3	111	150	MFR	NF	MFR	75.8	63.3	51.8	51.5	152	200	95	80	300	240	12.1	7	11.3	D	1	5,800	0.5	1396	2.84	9	MFR	163	98	76	4405	VALENT	VXE	

**ENERGY RECOVERY SCHEDULE**

NOTES:  
 1. ENERGY RECOVERY IS REQUESTED BY OWNER. CONFIRM IN CD PHASE WHETHER TO INCLUDE ENERGY RECOVERY COMPONENTS WITHIN RTU BASED ON COST. OWNER MAY ELECT TO OMIT ENERGY RECOVERY REQUIREMENT AT THAT TIME.

AIR HANDLING UNIT TAG NAME	OUTSIDE/SUPPLY AIR STREAM										RETURN/EXHAUST AIR STREAM										RECOVERED SUMMER MBH		RECOVERED WINTER MBH		ELECTRICAL		NOTES
	CFM	SUMMER				WINTER				APD	CFM	SUMMER				WINTER				APD	RECOVERED SUMMER MBH	RECOVERED WINTER MBH	BY (NOTE A)	CONTROLLER/STARTER			
		EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F			EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F								
RTU-1	1,600	95	78	77.7	65.5	-20	-20.6	57.2	46.9	0.25	1,600	75	62.4	91.9	75.5	72	55.7	-3.4	-3.4	0.25	81.36	133.402	MFR	MFR			

**AIR TERMINAL SCHEDULE**

NOTES:  
 1. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.  
 2. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.  
 3. PROVIDE AIR SCOOP DAMPER ACCESSIBLE FROM GRILLE FACE FOR VOLUME ADJUSTMENT.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
RG-1	INLET + 2	PERFORATED FACE	1 1/4"	ALUMINUM	WHITE	NO	TITUS	S8F	
SR-1	INLET + 2	DOUBLE DEFLECTION	1 3/8"	ALUMINUM	WHITE	YES	TITUS	S300F	NOTE 3

**PLUMBING MATERIAL LIST**

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
TD-1	TRENCH DRAIN SYSTEM DESIGNED FOR INSTALLATION BELOW SIDEWALK WITH CURB OUTLET. ALL COMPONENTS TO BE POWDER COATED COLOR MATCHING EXISTING WINDOW TRIM.  CAST IRON DOWNSPOUT BOOT. E66 SERIES, 6"X6" TOP BELL, 24" LENGTH WITH T-08C CONNECTION SIZE.  8"X6" STEEL TRENCH PAN WITH ANCHORING ANGLES AND CONTINUOUS 6" WIDE CAST IRON GRATE. STAINLESS STEEL GRATE SECURITY BOLTS. GRATE STYLE: CONTINUUM WITH 1/4" OPENINGS. EVERGRATE T-08C.  GREY IRON CURB OPENING. EVERGRATE C-846T.	EVERGRATE (T-08 SERIES) OR EQUAL.

**SCHEDULE GENERAL NOTES:**

- A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:  
MFR = MANUFACTURER  
EC = ELECTRICAL CONTRACTOR.
- B. DISCONNECT TYPE:  
F = FUSED  
NF = NON-FUSED
- C. CONTROLLER STARTER TYPE:  
FV = FULL VOLTAGE  
VFD = VARIABLE FREQUENCY DRIVE
- D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE. WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.
- E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.
- F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
- G. CURB TYPE:  
MFR = STANDARD CURB BY MANUFACTURER  
GC = BY GENERAL CONTRACTOR

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Sheet Name  
**MECHANICAL SCHEDULES**

PROJECT NUMBER: 2206-01

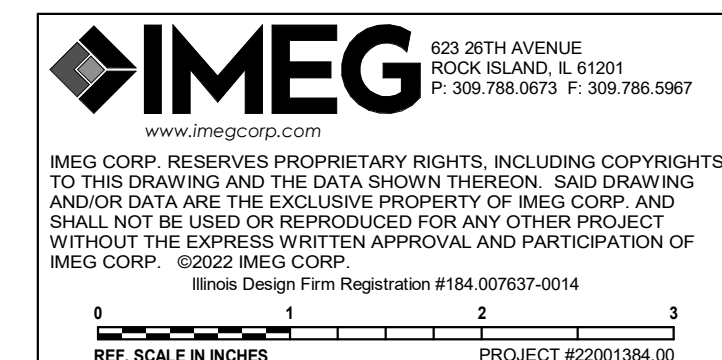
DATE: 01/27/2023

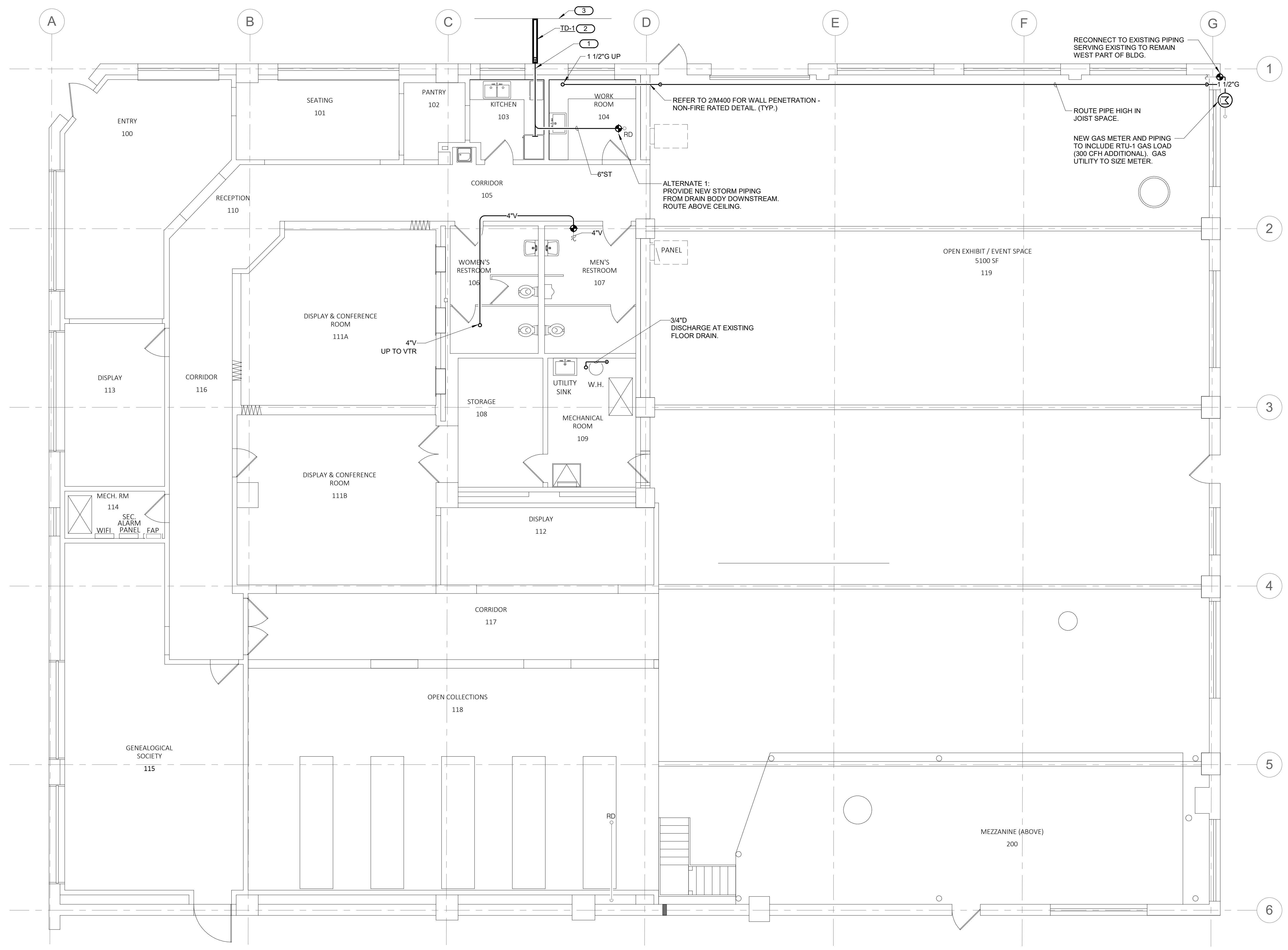
DRAWN BY: Author

CHECKED BY: Checker

SCALE:

**M600**





- KEYNOTES:** (#)
- ALTERNATE 1, PROVIDE NEW HOLE IN EXTERIOR WALL, SEAL PENETRATION WATER TIGHT. ROUTE 6\"/>

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NO.	DATE	REMARKS

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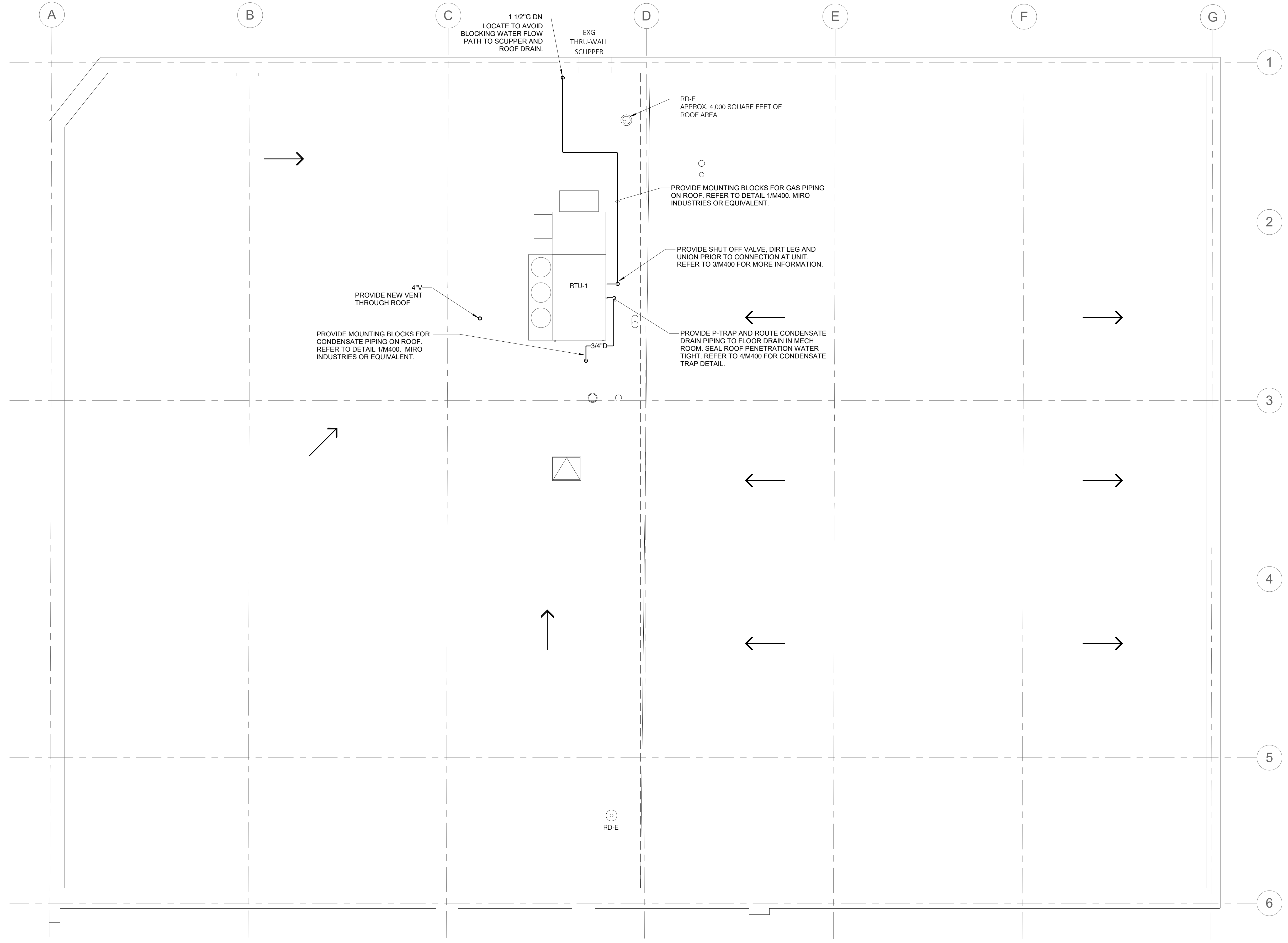
**Sheet Name**  
**FLOOR PLAN - PLUMBING**

PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: Author  
 CHECKED BY: Checker  
 SCALE: 3/16" = 1'-0"

**P211**

**1 FLOOR PLAN - PLUMBING**  
 3/16" = 1'-0"

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**1 ROOF PLAN - PLUMBING**  
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 NORTH

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REVISION		
NO.	DATE	REMARKS

Seal/Drawing Status:

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**Sheet Name**  
**ROOF PLAN - PLUMBING**

PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: Author  
 CHECKED BY: Checker  
 SCALE: 3/16" = 1'-0"

**P221**

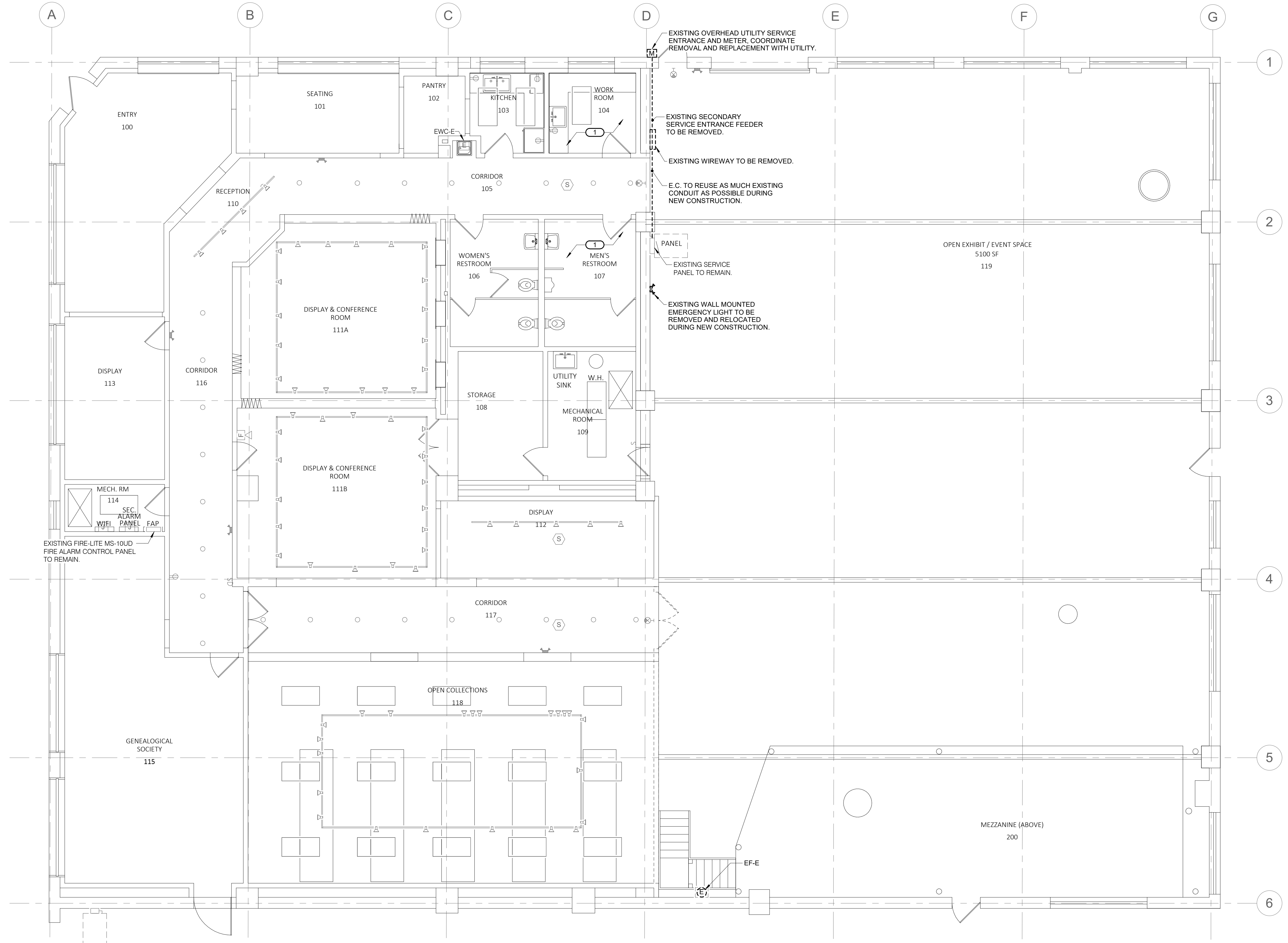


**SHEET NOTES:**

1. THERE ARE TWO ALTERNATE BIDS WHICH ARE PART OF THE PROJECT. E.C TO REVIEW ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK REQUIRED.

**KEYNOTES: ( # )**

1. E.C TO COORDINATE WITH M.C. THE REMOVAL OF ALL LUMINAIRES AND ELECTRICAL DEVICES AS REQUIRED FOR THE INSTALLATION OF NEW DUCTWORK IN THIS AREA.



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Sheet Name  
**FLOOR PLAN DEMOLITION - ELECTRICAL**  
 PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: ADABRO  
 CHECKED BY: Checker  
 SCALE: 3/16" = 1'-0"

**E101**

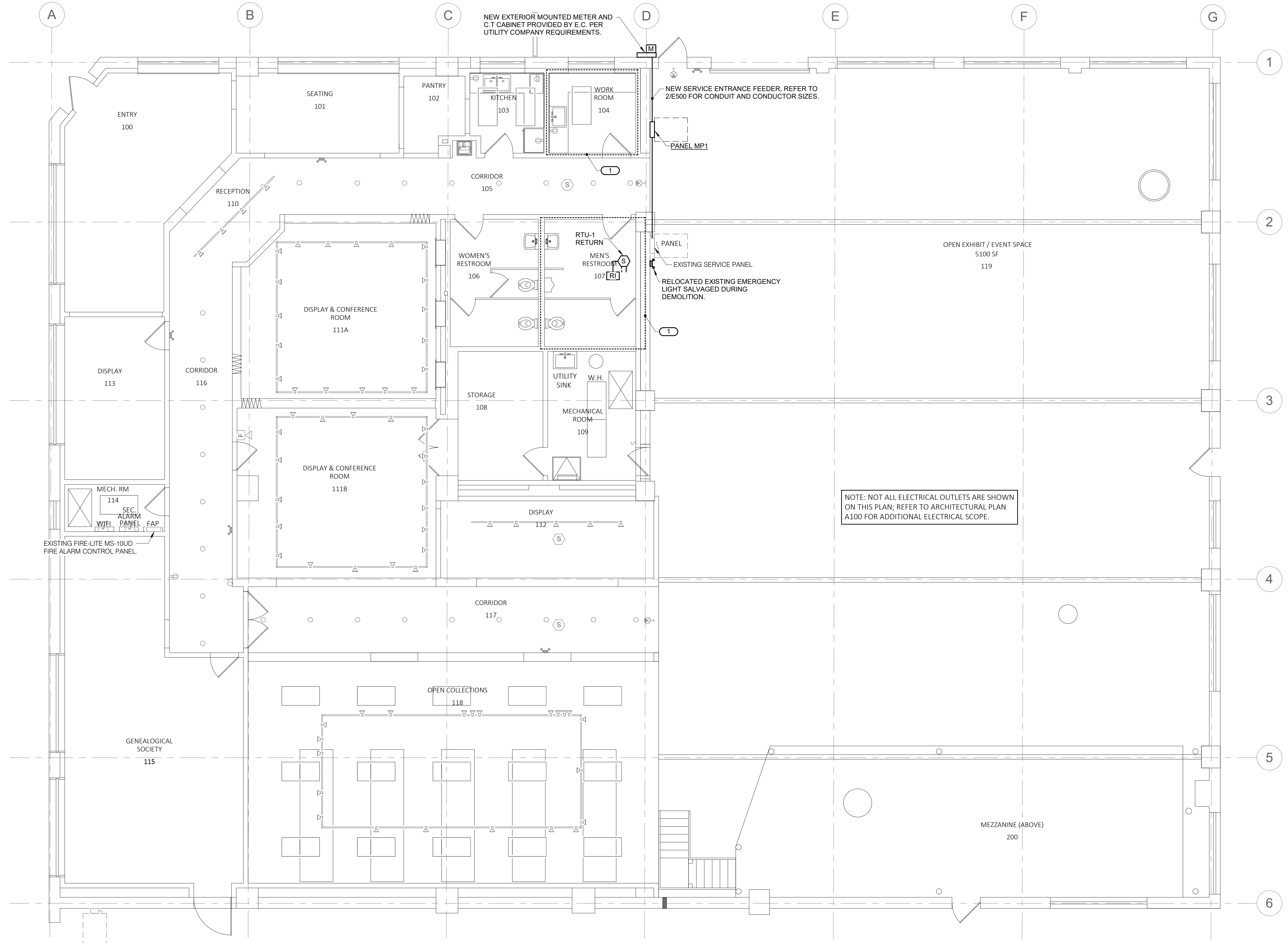
**1 FLOOR PLAN DEMOLITION - ELECTRICAL**  
 3/16" = 1'-0"

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REF. SCALE IN INCHES PROJECT #22061384.00





- SHEET NOTES:**
- THERE ARE TWO ALTERNATE BIDS WHICH ARE PART OF THE PROJECT. E.C. TO REVIEW ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK REQUIRED.
  - EXTEND EXISTING ADDRESSABLE FIRE ALARM WIRING AS REQUIRED FOR NEW DEVICES. PROVIDE ALL NECESSARY PROGRAMMING.
- KEYNOTES: (#)**
- E.C. TO COORDINATE WITH M.C THE INSTALLATION OF NEW DUCTS IN OUTLINED AREA. E.C. TO RELOCATE CONDUITS AND ELECTRICAL EQUIPMENT AS REQUIRED FOR THE INSTALLATION OF NEW DUCTS AND EQUIPMENT. E.C TO REINSTALL LUMINAIRES AND DEVICES AFTER WORK IS COMPLETED.

NOTE: NOT ALL ELECTRICAL OUTLETS ARE SHOWN ON THIS PLAN; REFER TO ARCHITECTURAL PLAN A100 FOR ADDITIONAL ELECTRICAL SCOPE.

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**REVISION**

NO.	DATE	REMARKS

Seal/Drawing Status:

**Not For Construction**

**Sheet Name**  
**FLOOR PLAN - ELECTRICAL**

PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: ADABRO  
 CHECKED BY: Checker  
 SCALE: 3/16" = 1'-0"

**E221**

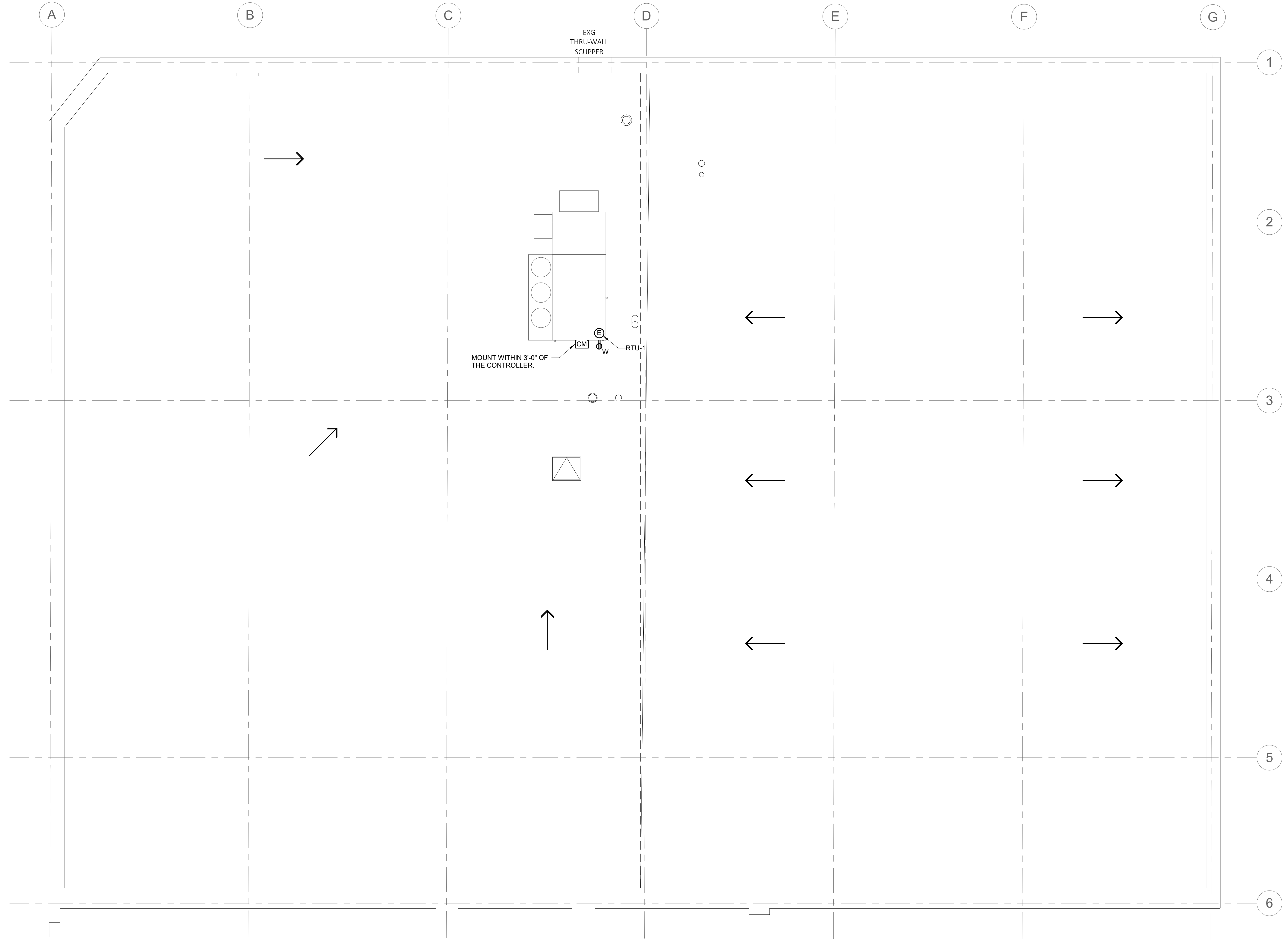
**1 FLOOR PLAN - ELECTRICAL**  
 3/16" = 1'-0"

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 REF. SCALE IN INCHES PROJECT #22001384.00



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2. EXTEND EXISTING ADDRESSABLE FIRE ALARM WIRING AS REQUIRED FOR NEW DEVICES. PROVIDE ALL NECESSARY PROGRAMMING.



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**REVISION**

NO.	DATE	REMARKS

Seal/Drawing Status:

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**Sheet Name**  
**ROOF PLAN - ELECTRICAL**

PROJECT NUMBER: 2206-01  
 DATE: 01/27/2023  
 DRAWN BY: Author  
 CHECKED BY: Checker  
 SCALE: 3/16" = 1'-0"

**E241**

**1 ROOF PLAN - ELECTRICAL**  
 3/16" = 1'-0"



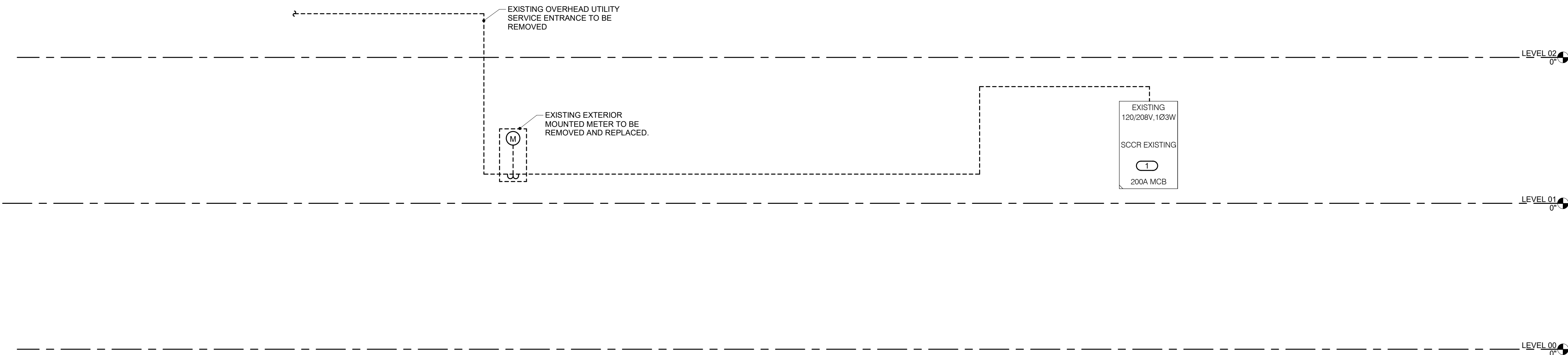
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**SHEET NOTES:**

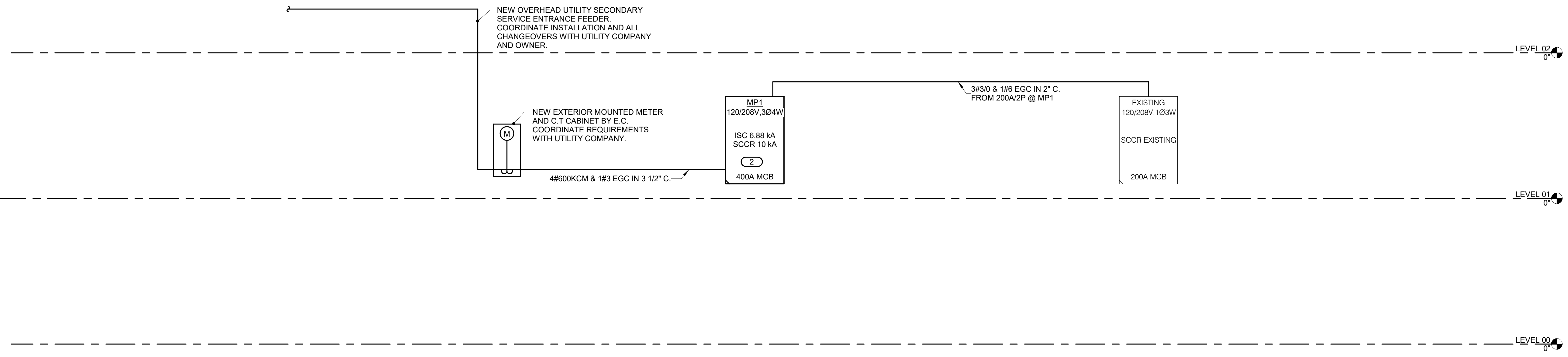
1. THERE ARE TWO ALTERNATE BIDS WHICH ARE PART OF THE PROJECT. E.C. TO REVIEW ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK REQUIRED.

**KEYNOTES: (#)**

1. E.C. TO REMOVE EXISTING NEUTRAL-GROUND BOND IN PANEL AND RELOCATE TO NEW SERVICE ENTRANCE PANEL. REFER TO 1/E221 FOR NEW LOCATION.
2. REFER TO 1/E000 FOR SERVICE ENTRANCE GROUNDING DETAIL.



**1 ELECTRICAL RISER DIAGRAM - DEMO**  
12" = 1'-0"



**2 ELECTRICAL RISER DIAGRAM - NEW**  
12" = 1'-0"

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**Sheet Name**  
**ELECTRICAL DIAGRAMS**

PROJECT NUMBER: 2206-01  
DATE: 01/27/2023  
DRAWN BY: ADABRO  
CHECKED BY: Checker  
SCALE: 12" = 1'-0"

**E500**