



SOUTHERN NEVADA REGIONAL HOUSING AUTHORITY

ADDENDUM NO. 7, PRE-BID MINUTES AND Q & A'S

JULY 29, 2024

INVITATION FOR BIDS, IFB B24011

GC: CONSTRUCTION SERVICES – MARION D BENNETT PHASE II DEVELOPMENT

1818 BALZAR AVENUE, LAS VEGAS, NV 89106

All Proposers bidding this solicitation are hereby advised to incorporate the following changes/clarifications and related information in their proposals for the above-referenced project. All conditions described in the project SOW and Specifications shall apply in full force.

The SNRHA provided an In-Person Pre-Bid Conference on Wednesday, July 24, 2024, 10:00 AM and scheduled site visits of the following: 1818 Balzar Avenue, LV, NV 89106. This document serves as the Minutes from that conference and the following were in attendance in person and on-line:

1. Linda Simpson, SNRHA, [lsimpson@snvrha.org](mailto:lsimpson@snvrha.org)
2. Ryan Perry, SNRHA, [rperry@snvrha.org](mailto:rperry@snvrha.org)
3. Frank Stafford, SNRHA, [fstafford@snvrha.org](mailto:fstafford@snvrha.org)
4. Irma Solis, SNRHA, [isolis@snvrha.org](mailto:isolis@snvrha.org)
5. Thomas Adane, SNRHA [tadane@snvrha.org](mailto:tadane@snvrha.org)
6. Eric Gross, KME Architects, [egross@kmearchitects.com](mailto:egross@kmearchitects.com)
7. Cindy Pavon, KME Architects, [cindy@kmearchitects.com](mailto:cindy@kmearchitects.com)
8. Robert Potter, Affordable Concepts, Inc., [rpotter@acilv.com](mailto:rpotter@acilv.com)
9. Mark Orshoski, Affordable Concepts, Inc.,
10. Joseph Montijo, Cobblestone Construction, [jmontijo@cobblestoneconstruction.org](mailto:jmontijo@cobblestoneconstruction.org)
11. Mark C. Gutierrez, Kalb Industries, [markg@kalbind.com](mailto:markg@kalbind.com)
12. Brenden Graves, Kalb Industries, [brenden@kalbind.com](mailto:brenden@kalbind.com)
13. Danny Zacarias, Kalb Industries, [danny@kalbind.com](mailto:danny@kalbind.com)
14. Matt Murphy, Kalb Industries, [mattm@kalbind.com](mailto:mattm@kalbind.com)
15. Matt Morris, Rafael, [matt.morris@rafaelcompanies.com](mailto:matt.morris@rafaelcompanies.com)
16. Jose Vega, Luigz Roofers and Waterproofers Local Union 162, [jvega@rooferslocal162.com](mailto:jvega@rooferslocal162.com)
17. Jesus Loya, Luigz Roofers and Waterproofers Local Union 162, [jloya@rooferslocal162.com](mailto:jloya@rooferslocal162.com)
18. Brenda Sheedy, Renco Sales, [brenda@rencosales.com](mailto:brenda@rencosales.com)
19. Jeff Stiemsma, Eagle One Construction, [jeffis@eoc-gc.com](mailto:jeffis@eoc-gc.com)
20. Dimitri Mihaloliakos, Burke Construction, [dimitri@burkecqi.com](mailto:dimitri@burkecqi.com)
21. Mike O'Day, B & H Construction, [mike.oday@bhcnv.com](mailto:mike.oday@bhcnv.com)

Linda Simpson conducted the administrative portion of the meeting, explaining the procedures of submitting the Bid including its various due dates such as the Q & A Deadline which ends Wednesday, August 14, 2024, 10AM, and the Bid submission deadline date of Monday, August 27, 2024, 10AM. She stated site visits would follow the conference and additional site visits were available upon written request.

She stated she would be the primary contact and all questions must be provided to her via email through the Housing Agency Marketplace at [ha.economicengine.com](http://ha.economicengine.com). She would then get responses to the questions and provide them back simultaneously to all parties that are registered on the website and those who signed in on the sign-in sheet at the conference.

She further mentioned that there is an Insurance Requirement to this project and it could be found within the Solicitation document and that it was the Contractors' **sole responsibility to review the entire** solicitation document, including all Attachments. Additionally, she mentioned that this is a Davis Bacon/Certified Payroll and Section 3 Project where Irma Solis would be discussing Davis Bacon and Diamonique Robinson, who was not available, Frank Stafford agreed to explain Section 3. Further, a 5% Bid Bond is required if the total bid amount exceeds 100K is due with the bid submission and a 100% Payment and Performance Bond is due on all contracts exceeding \$100K.

She also stated there was a two-step submission process and to use Attachment A, Proposal Submittal Checklist as a guide in putting your proposal package together. It was preferred that the appropriate-sized binders or folders be used with 10 extending tabs containing the appropriate information for each tab, which could be found at Section 3.5.1 of the Solicitation document. Two copies are required; one marked Original and the other Copy. The Bid submission must be sealed in an envelope or packet with the return address and the mail to address of the Southern Nevada Regional Housing Authority. The second part of the submission is one electronic copy of your costs which is input online at [ha.economicengine.com](http://ha.economicengine.com). Providing one without the other will deem your submittal non-responsive. The contract award will go to the lowest, responsive, responsible bidder for the entire project.

She introduced Irma Solis, Mod/Dev, who explain the Davis Bacon and Certified Payroll; she stated that if a job they had was not already included in Wage Decision, they could solicit HUD to include it. She also stated that the wages could exceed the Davis Bacon Wage Decision, however, it could not be lower than the Wage Decision. Finally, the Davis Bacon Key Points and the Decision can be found within the solicitation document and to contact her for any questions they may have.

Frank Stafford, SNRHA Mod/Dev Director, explained Section 3 requirement. He mentioned to them that the Section 3 Program was a required program by HUD and that all we ask if there was a need for employment opportunities, we ask that the SNRHA gets the first look, meeting the **Contractor's** eligibility requirements. There are forms included within the solicitation document for their completion and return with their Bid submittal. He also explained the SNRHA's Section 3 Business as it pertains to contract awards.

Thomas Ardane, SNRHA Construction Inspector stated that he would be interviewing construction trade workers and laborers using HUD 11 form and follow up with progress and inspections.

Eric Gross, KME Architects, stated the original Marion Bennett project included 2 phases of construction, with Phase 1 being completed in 2009. At that time Phase 2 was designed, but not permitted or completed. This project is to complete the Phase 2 project with current updates to building codes and material selection. The project is a ground-up building of 59 units and amenity spaces. The design intent is to make the exterior of the new Phase 2 building to match the Phase 1 building in appearance. Updates to building codes, energy requirements, and layouts are necessary, but the intent is to aesthetically make the 2 buildings match.

We are still in the building permitting process and overall utility design. Since the utility designs are not documented or completed, we are adding a contingency of \$1,500,000 for all unknown utilities to be installed. This does not include any and all utilities that are already included within the contract drawings at this time, or within future addenda. We will also issue an addenda on the corrections of the building department comments already provided at time of bid.

SITE VISIT FOLLOWED Pre-Bid Conference and Site Visit adjourned at 11:45AM

## IFB B24011 BENNETT PHASE II PRE-BID MINS AND Q&A'S

1. Project Manual Page 11 30 13 – 2 Section 2.01 Products notes that there is a Residential Appliance Schedule. There is no appliance schedule attached.
  - a. Can you provide an Appliance Schedule with product numbers? **Provided a style for the appliances in the attached email. The selected appliances on the attached email are all gas and shall only be used to see the overall style that the Housing Authority wishes to use. The selected appliances shall meet all of the requirements listed on the contract drawings, including selection of electric appliances only, no gas shall be accepted.**
  - b. Do you have a preferred residential appliance installer? **See attached sample for expected style of appliances.** While the samples are GE appliances, alternates may be proposed for review and approval. Alternates may include but are not limited to Whirlpool and LG. Supplier and installer per contractor.
2. Page A6.53 Detail 2 "Lobby E1" notes for a "MAIL" sign. Are there any specs on it? Will it be illuminated? Size? **Sign shall be 12" tall 626 finish signage with standoffs attached to the wall above the mailboxes.**
3. Page A6.53 has Mailboxes under the Mail Sign. Is there a spec on the mailbox? Do you have a preferred contractor for mailboxes? **Contractor to provide the minimum USPS requirements for number and sizes of mailboxes and parcel boxes for the Phase II building, recessed within the wall cavity as shown and required per manufacturer requirements. Style shall be 626 finish or approved equivalent. Labeling of mailbox shall be per unit numbering, and all ADA boxes, and at minimum 5% of all parcel boxes, shall fall within the approved ADA reach ranges per ANSI, UFAS and authority having jurisdiction requirements.**
4. Pool tables are listed as CFCI. Is there a product spec/number for the pool tables?
  - a. Will the two social rooms on the third floor also receive a pool table? **This will be a marble topped and green felt standard pool table to be purchased and installed by contractor.**
5. Will we need to provide any of the weights for the weight room? Or will those fall under the owner's scope of work. **This shall be owner furnished and installed.**

6. On Architectural Plans, Keynote 09-11 "Pavers over Pli-Deck System over deck sheathing.
- a. Is there a spec on the pli-deck system? **Pli-Deck system no longer required. Utilize the following for all balconies throughout. Tapered foam for drainage with rigid backing with 1" concrete with fiber additive over the 2x8 wood joists.** Third floor balconies accessible to residents and guests at all corners to utilize the same stamped pattern and colored concrete color as the entrance. Unit balconies to have uncolored sealed concrete finish. Balconies located on the first floor shall be slab on grade, sloped for drainage, uncolored and sealed.
  - b. Will the pli-deck system to come from "Pli-Deck Waterproofing Solutions"? **No longer applicable.**
  - c. Is there a product number on the Paver that will be placed over the pli-deck system? **No longer applicable.**
  - d. Is there a preferred contractor for this? **Per contractor.**
  - e. Will the two terrace's #332 & #333 receive pavers over pli-deck? **See above description.**

7. Will all Special Inspections and Test be by the Owner? Page G0.00 Responsibility Matrix notes that only the Civil Portion of Special Inspection will be the GC.

**All third party inspections to be handled by Housing Authority provided third party inspector.**

8. Architectural Page A2.11 Elevator Detail 1/A5.05 wall Type 800 & 801 and Keynotes 04-01 call for a CMU 1 HR Rated Wall. But Structural Sheet S2 Detail 11/SD.11 indicates a Concrete Pit with Wall Framing by Others. Please confirm whether it will be Concrete or CMU.

**Basis of Design shall be Concrete Pit per structural with CMU wall as shaft above slab on grade.**

9. Is there a Basis of Design for the Elevator? A preferred contractor/brand?

**Basis of Design listed on sheet A5.05. All relevant information listed in the Elevator General Notes.**

10. Is there a spec on the Roof Tile? Plans only note to match existing.

Contractor to match size, shape, style and color as Phase 1. Contractor to utilize Energy Star roof tiles or approved equivalent rating.

11. Project Manual Page 06 10 00 – 1 Section 1.02.B.1 Notes that the related section includes Section 02 41 00 – Selective Demolition. There is no Selective Demo Section in the Project Manual. Please confirm if this will be part of the scope of work.

Selective Demolition occurs at the exterior fencing and existing asphalt per the contract documents. Spec section of selective demolition will not be required.

12. Project Manual Section 07 84 00 – 1 1.02 Related Sections notes sections 22 10 05 – Plumbing Piping, 23 21 13 – Hydronic Piping, 26 05 00 – Common Work Results for Electrical, 27 10 00 – Structured Cabling. These sections are not in the project manual. Are there any pages for these sections?

All related information provided on the drawings. These spec sections shall not be required and can be removed from the related sections in section 07 84 00.

13. Subs Ask: For the Storage Overhead Door, the details have information for a Sectional Door and a Rolling Steel Door. A9.01 Detail 17 and 19 are details for Rolling Doors and A9.01 Detail 18 is for a Sectional Door.

Please confirm whether it should be a Sectional or Rolling Door.

Rolling Door.

14. Based on Existing Site Conditions there is graffiti on the Screen Walls. Will the painting of the Existing Screen Walls be part of our scope of work?

The graffiti removal and painting should be included in their scope.

15. Also to note, there is existing asphalt on site, should the demo and re-pour of asphalt be part of our scope of work? Or will the demo be done by Owner, and GC will only re-pour?

Existing asphalt to be modified for the new parking lot layouts and will be the responsibility of the GC. Should existing slopes not meet current civil drawings, regrading will be required.

16. Page S1.1 Footing and Pier Schedule notes for Footing Marks (F1 & F2). Please provide the location of F1 & F2 on the Foundation Plan.

Schedule states that not all footings listed may be utilized within the project. F1 and F2 footings may not be used in the project. See foundation plan for all footings.

17. Is there a product specification for the Rolling Garage Door at the Storage Room? Any specific Manufacture? Only size is specified. Non-electric, manual opening overhead rolling door.

18. RFI Description, Specification References & Drawing References 1. Is there a product spec for the Hearing Aid Devices? A product spec for the Hearing-Impaired Doorbell on Page E0.04?

Please see the attached pdf for a sample package of hearing-impaired devices approved for other SNRHA properties.

19. Page A2.20 Computer Room 203 shows a Desk. Will the desk be CFCI?

The furniture would be owner furniture and owner installed.

20. Is there a spec/product number for the Washer and Dryer?

These will be procured by the housing authority after project completion. Contractor shall install all connections required for OFOI washer and dryer.

21. Is there a spec/product number for the Dishwasher? No dishwashers called out on the plans.

22. Will there be a detail on the Catwalk on the Structural Plans?

Catwalk information provided on S4. Contractor to provide all trusses as part of the deferred submittal package. Ensure that catwalk meets the heights of the doors leading to roof deck, which shall be 8" from the top of the roofing membrane.

23. The Additional Clauses and Requirements note that the project will be Tax Exempt. Please confirm if this project will be Tax Exempt.

Yes, this project will be Tax Exempt. The SNRHA is a government agency and therefore do not pay sales taxes.

24. Per Addendum 5 Question 8 Response, the Basis of Design will be a Concrete Pit with CMU Wall as Shaft above Slab on Grade.

a. Please provide structural details for CMU Wall.

**CMU wall information provided on sheet SD-5. Part of addendum information based on building department comments.**

b. Please provide a spec on the CMU Color and Preferred Manufacture.

**Color to be standard gray, manufacturer to meet structural requirements provided.**

25. Will there be any sort of "OCIP" required? Owner-Controlled Insurance Program? Frank

26. Page A9.10 Window Schedule notes for Windows 15, 21, 22, 23, and 38. On the Window Types section there is no measurement or callout for the mentioned windows.

a. Is there a spec/detail for Windows 15, 21, 22, 23, 38?

**Windows 15, 21 and 23 are not in the project. These shall be removed from the scope of work. Window 22 is 29" wide x 53" tall, fixed vinyl window. Window 38 is 29" wide x 42" tall, fixed vinyl window.**

b. Windows 15, 21, and 23 are not shown on the Elevations. Please confirm the locations.

**Windows 15, 21 and 23 are not in the project. These shall be removed from the scope of work.**

27. Page A9.20 calls for SC-1. Is there a spec on this? The Addendum 5 Question 6a Response only notes for uncolored sealed concrete. Is there a thickness on the concrete that will be poured on the unit balcony?

**Penetrating Sealer to be provided over standard gray uncolored concrete.**

28. Also to note, at the Third Floor Balcony Addendum 5 calls for stamped pattern and colored concrete. This would also apply to the Entrances. There is no specification for this on the plans. Please confirm what color and pattern will apply to the Third Floor Terrace and Main Entrances.

**Colors and patterns to closely match the entrance to the Phase 1 existing building on site.**

29. Addendum 5 Question 4a response was unclear. Will the two social rooms on the third floor also require a pool table?

These will not require a pool table.

30. Subs Ask: Is there a specific system for the interior aluminum storefronts located on A9.11, or is it fine if we quote it with a 2"x4 1/2" offset glazed system for 1/4" glass?

Contractor to use storefront glazing with a minimum STC rating of 40;

31. Subs Ask: is there a basis of design or specific system for the biparting sliding entry door marked as door #101 on A9.00?

Contractor to meet the IECC requirements, egress width, and fire department requirements for operations and egress. Frame colors to match the windows of the exterior.

32. Subs Ask: What color is the anodized finish going to be for the aluminum storefront?

Standard anodized aluminum.

33. Subs Ask: For the aluminum storefront doors identified on A9.00 are there any specific hardware sets for the doors or could we proceed with the manufacturer's standard grade 1 hardware? Storefront Door "1" does not note a hardware set on the schedule.

We can use the manufacturer's standards for that door, as long as they meet all ADA requirements for the operations and egress.

34. Subs Ask: On page A9.11, there is no window elevation for door #303 identified on A9.00. Is the elevation for this door #303 going to be like the window elevation for door #302 as well as the same finish?

Yes, these will have the same elevation. An error occurrence in the schedule to provide different heights. Door heights to be 7'-10" in height.



35. Subs Ask: As a standard the structural plans override the architectural plans unless specified. On stairwells 2 & 3, the architectural plan shows a conventual stacked roof, vaulted ceilings and arched openings. The upper openings are taller than the lower bearing point. This Works.

The Structural Plans show flat roof trusses with a 26'-10" plate height. With trusses there's no room for the upper arched openings. There's no call-out for rafter sizes, the details would be different and stud lengths would change. This is also the same at the north and south entry.

Ultimately, which information is to be used? Architecturals or Structural?

36. Will the closets receive any shelves. See Attached for Reference.

Closets to receive a standard shelf and closet rod. Note that the ADA units will have the closet rod and shelf installed at a lower elevation to meet all ADA requirements.

37. Based on the plans the unit schedule is incorrect. Please see attached for unit types per floor ??? First Floor : 1A – 7 Units; 1B – 7 Units; 1C – 1 Unit; 2D – 3 units; 2E – 1 Unit  
Second Floor: 1A – 10 Units; 1B – 7 Units; 1C – 1 Unit ; 2D – 3 Units; 2E – 1 Unit  
Third Floor: 1A – 10 Units; 1B – 5 Units; 1C – 1 Unit; 2D – 2 Units; 2E – 0 Unit

This is correct, 27 total 1A units, 19 total 1B units, 3 total 1C units, 8 total 2D units, and 2 total 2E units.

**This Addendum is provided to you as a courtesy. It is the contractor's sole responsibility to review and retrieve all Addenda from SNRHA's websites at [ha.economicengine.com](http://ha.economicengine.com) and/or <https://www.snvrha.org> and make the appropriate adjustments to your Proposal Submittal if necessary.**

Thank you for your time and consideration in providing a bid for these services.

END

# Push Buttons

## Push Button Plate

### 147 Series

The Edwards 147-10 Push Button Plate is a stainless steel faceplate, and is used with the catalog series 620 Push Buttons (purchased separately) to form a convenient station that provides a means of activating a hotel room annunciator for the hearing impaired. Designed for single gang mounting.

#### Features and Specifications

- Used as a switch plate outside hotel rooms accessible to the hearing impaired
- Stainless steel faceplate
- Suitable for use with 620 Series push button
- Supplied as part of the 7005-G5 Hotel Room Annunciator



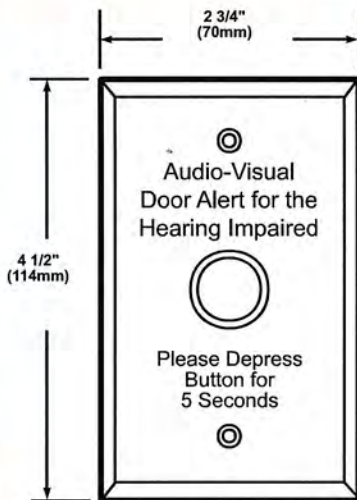
NOTE: Shown with 620 push button, not included.

#### Ordering Information

Description	Cat. No.	For Use With
Single Gang Push Button Plate	147-10	7005-G5 Hotel Room Annunciator Kit

#### Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
147-10	0.12	0.15



All strobes related to the doorbell to be clear lenses.

All strobes related to fire alarm devices to be red.

CALL FOR ASSISTANCE 6

# Hotel Room Annunciator CFA Series

The Edwards 7005-G5 24 volt Hotel Room Annunciator is for use in hotel rooms and other areas designed to assist those with audible, visual, or physical impairments. The kit consists of a 6536-G5 horn/strobe for audible and visual signaling, a 620 push button, a 147-10 mounting plate, and a 592 transformer. Each component may also be ordered individually.

## 6536-G5 Horn/Strobe

The 6536-G5 Horn/Strobe is designed for use in a single gang 2" (51mm) x 4" (102mm) box located over the door. Each unit contains an audible horn signal which generates an 82 dBA sound pressure level at 10 ft. and a 50 cd strobe.

## 592 Transformer

The Edwards 592 transformer is used to power the horn/strobe. It is equipped with a grounding wire and is suitable for installation in both plastic and metal boxes.

## 620 Push Button

The 620 push button station provides call activation when installed in the 147-10 mounting plate (page 6-10). The plate has a stainless steel face. The switch is momentary.

## Features and Specifications

- Kit includes 6536-G5 Horn/Strobe, 592 Transformer and 620 Push Button
- Neutral white color
- Fits single gang box
- 92dB buzzer at 1 meter/82dB at 10ft.
- UL 1638 listed - Horn/Strobe



## Ordering Information

Description	Cat. No.	Transformer		Horn/Strobe Current	Lens Color	dBA at 1m/10ft.	Strobe Candela
		Primary	Secondary				
Call for Assistance Kit	7005-G5	120V AC	24V AC	0.175 A @ 24V AC <sup>1</sup> 0.125 A @ 24V DC	Clear	92/82	50
	7005A-G5	120V AC	24V AC	0.175 A @ 24V AC <sup>1</sup> 0.125 A @ 24V DC	Amber	92/82	40
	7005B-G5	120V AC	24V AC	0.175 A @ 24V AC <sup>1</sup> 0.125 A @ 24V DC	Blue	92/82	17
	7005G-G5	120V AC	24V AC	0.175 A @ 24V AC <sup>1</sup> 0.125 A @ 24V DC	Green	92/82	29
	7005R-G5	120V AC	24V AC	0.175 A @ 24V AC <sup>1</sup> 0.125 A @ 24V DC	Red	92/82	25

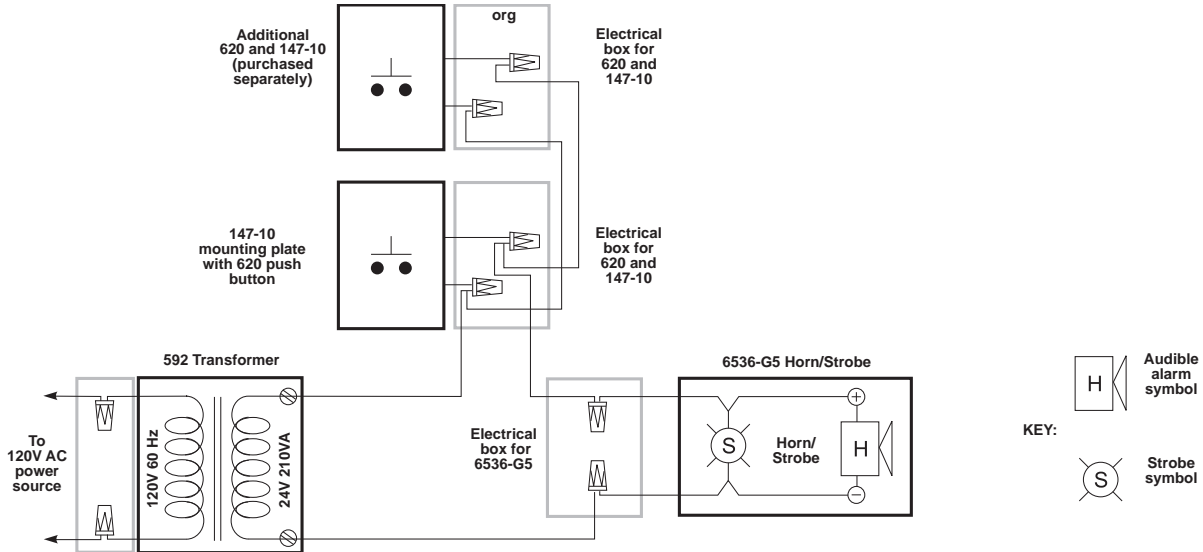
<sup>1</sup>AC voltage frequency is 50/60 Hz



# Hotel Room Annunciator CFA Series

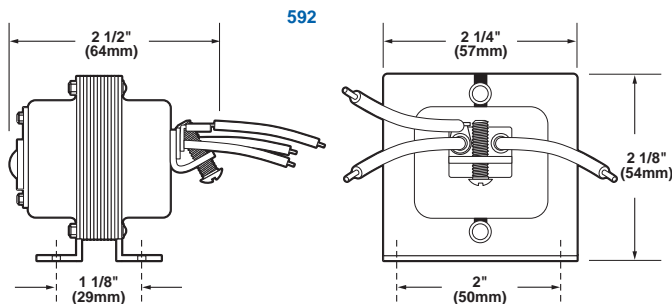
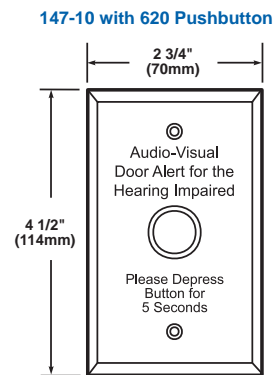
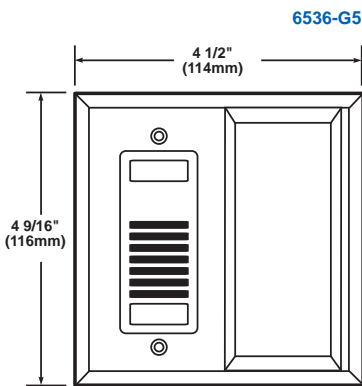
## Technical Information

### Connecting 7005-G5 Hotel Room Annunciator



## Weights and Dimensions

Cat. No.	Approx. Net Weight (lb.)	Approx. Shipping Weight (lb.)
7005-G5	1.46	1.66
7005A-G5	1.46	1.66
7005B-G5	1.46	1.66
7005G-G5	1.46	1.66
7005R-G5	1.46	1.66





# Indoor Selectable-Output Strobes and Horn Strobes for Ceiling Applications

*SpectrAlert® Advance audible visible notification products are rich with features guaranteed to cut installation times and maximize profits.*



## Features

- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings on ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- Universal mounting plate for ceiling units
- Mounting plate shorting spring feature checks wiring continuity before device installation
- Electrically Compatible with legacy SpectrAlert devices
- Compatible with MDL3 sync module
- Listed for ceiling or wall mounting

**The SpectrAlert Advance series** offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, ceiling-mount strobes and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature a plug-in design with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation, SpectrAlert Advance utilizes a universal mounting plate so you can mount them to a wide array of back boxes. With an onboard shorting spring, installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to a suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with three volume selections.

## Agency Listings



S4011 (chimes, horn strobes, horns)  
S5512 (strobes)



3023572



MEA452-05-E



7125-1653-0186 (indoor strobes)  
7125-1653-0188 (horn strobes,  
chime strobes)  
7135-1653-0189 (horns, chimes)

# SpectrAlert Advance Specifications

## Architect/Engineer Specifications

### General

SpectrAlert Advance strobes and horn strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 17/8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

### Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model \_\_\_\_\_ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

### Horn Strobe Combination

The horn strobe shall be a System Sensor SpectrAlert Advance Model \_\_\_\_\_ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn strobe models shall operate on a coded or non-coded power supply.

### Synchronization Module

The module shall be a System Sensor Sync•Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4 11/16 × 4 11/16 × 2 1/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

## Physical/Electrical Specifications

<b>Standard Operating Temperature</b>	32°F to 120°F (0°C to 49°C)
<b>Humidity Range</b>	10 to 93% non-condensing
<b>Strobe Flash Rate</b>	1 flash per second
<b>Nominal Voltage</b>	Regulated 12 DC/FWR or regulated 24 DC/FWR <sup>1</sup>
<b>Operating Voltage Range<sup>2</sup></b>	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
<b>Operating Voltage Range (MDL3)</b>	8.5 to 17.5V (12 V nominal) or 16.5 to 33 V (24V nominal)
<b>Input Terminal Wire Gauge</b>	12 to 18 AWG
<b>Ceiling-Mount Dimensions (including lens)</b>	6.8" diameter × 2.5" high (173 mm diameter × 64 mm high)
<b>Ceiling-Mount Surface Mount Back Box Skirt Dimensions (SBB CR, SBBCW)</b>	6.9" diameter × 3.4" high (175 mm diameter × 86 mm high)

### Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

## UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)					
	Candela	8–17.5 Volts		16–33 Volts	
		DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	NA	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15–115 cd)									
DC Input	8–17.5 Volts		16–33 Volts		30	75	95	110	115
	15	15/75	15	15/75					
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-Temporal High	141	152	91	100	116	176	201	221	229
Non-Temporal Medium	133	145	75	85	102	163	187	207	216
Non-Temporal Low	131	144	68	79	96	156	182	201	210
<b>FWR Input</b>									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211

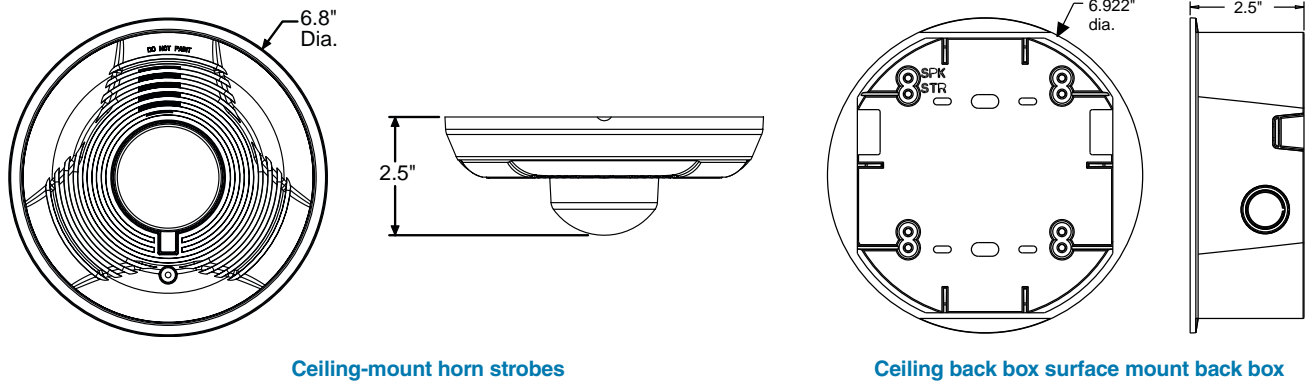
UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135–185 cd)									
DC Input	16–33 Volts				FWR Input	16–33 Volts			
	135	150	177	185		135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

## Horn Strobe Tones and Sound Output Data

Horn Strobe Output (dBA)										
Switch Position	Sound Pattern	dB	8–17.5 Volts		16–33 Volts		24-Volt Nominal			
			DC	FWR	DC	FWR	Reverberant		Anechoic	
			DC	FWR	DC	FWR	DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7†	Coded	High	82	82	88	88	93	92	101	101
8†	Coded	Medium	78	78	85	85	90	90	97	98
9†	Coded	Low	75	75	81	81	88	85	96	92

†Settings 7, 8, and 9 are not available on 2-wire horn strobes.

## SpectrAlert Advance Dimensions



## SpectrAlert Advance Ordering Information

Model	Description
<b>Ceiling Horn Strobes</b>	
PC2R	2-Wire Horn Strobe, Standard cd, Red
PC2R-P	2-Wire Horn Strobe, Standard cd, Red, Plain (no "FIRE") marking
PC2RH	2-Wire Horn Strobe, High cd, Red
PC2W	2-Wire Horn Strobe, Standard cd, White
PC2W-P	2-Wire Horn Strobe, Standard cd, White, Plain (no "FIRE") marking
PC2W-SP	2-Wire Horn Strobe, Standard cd, White, "Fuego" marking
PC2WH	2-Wire Horn Strobe, High cd, White
PC2WH-P	2-Wire Horn Strobe, High cd, White, Plain (no "FIRE") marking
PC2WH-SP	2-Wire Horn Strobe, High cd, White, "Fuego"
PC4R	4-Wire Horn Strobe, Standard cd, Red
PC4RH	4-Wire Horn Strobe, High cd, Red
PC4W	4-Wire Horn Strobe, Standard cd, White

Model	Description
<b>Ceiling Strobes</b>	
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW	Strobe, Standard cd, White
SCW-P	Strobe, Standard cd, White, Plain (no "Fire") marking
SCWH	Strobe, High cd, White
<b>Accessories</b>	
SBBCR	Surface Mount Back Box, Ceiling, Red
SBBCW	Surface Mount Back Box, Ceiling, White

### Notes:

All -P models have a plain housing (no "FIRE" marking on cover)

All -SP models have "FUEGO" marking on cover

"Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings.



3825 Ohio Avenue • St. Charles, IL 60174  
 Phone: 800-SENSOR2 • Fax: 630-377-6495

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 for current product information, including the latest version of this data sheet.  
 AVDS10102 • 03/15



# Installation Instructions for the 7005-G5 Hotel Room Annunciator

## Description

The 7005-G5 Hotel Room Annunciator Kit alerts hearing-impaired individuals inside a room that someone is present outside the room. The horn/strobe is mounted inside the room. When the pushbutton outside of the room is pressed for 5 seconds, the signal is activated. The 7005-G5 Hotel Room Annunciator Kit contains: Pushbutton (Cat. No. 620), Pushbutton Mounting Plate (Cat. No. 147-10), Horn/Strobe (Cat. No. 6536-G5), and Transformer (Cat. No. 592). You can purchase each item separately from your local Edwards distributor.

## Installation


*A qualified electrician familiar with National Electrical Code and local code requirements must install this product. Failure to follow the safety precautions in this instruction sheet could result in product or property damage, severe personal injury or death.*



### WARNING

**To reduce the risk of shock, do not connect AC power until installation is complete.**

1. Install Cat. No. 620 Pushbutton and Cat. No. 147-10 mounting plate (Figures 1 and 2)
  - a. Insert the back of the pushbutton through the hole in the mounting plate. Press on the button until it is properly seated within the hole.
  - b. Install a single gang 2" x 4" (51 mm x 102 mm) electrical box using suitable hardware.
  - c. Extend black and white wires using 18 AWG wire and connectors (not supplied). Route extended wires to the horn/strobe and transformer (polarity is not important). Ground in accordance with local codes and regulations.
  - d. Mount the pushbutton switch onto the electrical box using 2 screws supplied with the Cat. No. 147-10 mounting plate.
  - e. If additional pushbuttons are required, follow steps a and b above. Then, extend black and white wires using 18 AWG wire and connectors (not supplied). Route extended wires to the previously installed pushbutton switch and connect wire leads (Figure 1).
2. Install Catalog No. 6536-G5 horn/strobe (Figures 1 and 4).



### WARNING

**To reduce the risk of shock, do not remove lens or tamper with unit when the circuit is energized. Disconnect power and allow five (5) minutes for stored energy to dissipate before starting work or disassembly. High energy could be stored in the strobe circuit once it is energized.**

The 6536-G5 horn/strobe can be mounted on any single gang 2" x 4" (51 mm x 102 mm) electrical box, double gang 4" x 4" (102 mm x 102 mm) electrical box, or standard 4" x 4" (102 mm x 102 mm) junction box with a plaster ring.

- a. Install an appropriate electrical box using suitable hardware.
  - b. Connect one wire from the 620 pushbutton to one of the horn/strobe wires (polarity is not important).
  - c. Extend the remaining horn/strobe wire to the transformer.
  - d. Mount the horn/strobe onto the electrical box using two screws (supplied).
3. Install Catalog No. 592 Transformer (Figures 1 and 3).
    - a. Select a metal electrical box that can be grounded. Mount the transformer onto the electrical box (Figure 3) so that it has ground continuity to the box and conduit system.
    - b. Install the box using suitable hardware.
    - c. Ground the box in accordance with local codes and regulations.
    - d. Connect the remaining pushbutton wire to one of the terminals marked 24V 20VA.
    - e. Connect the horn/strobe wire to the second terminal marked 24V 20VA.
    - f. Connect the transformer's primary wire leads to an appropriate 120V AC power source.
  4. When all connections are completed, press the pushbutton and verify operability of the horn/strobe.

## Maintenance

Perform regularly scheduled testing at least twice a year or more often as dictated by local authorities having jurisdiction.

The 7005-G5 Hotel Room Annunciator is not serviceable or repairable. Should it fail to operate properly, contact the supplier for replacement.

Table 1. Specifications

<b>Horn/strobe Voltage</b>	24V 50/60 Hz	24V DC
<b>Horn/Strobe Current</b>	175 mA	125 mA
<b>Transformer - Primary</b>	120V	
<b>- Secondary</b>	24V 20VA	

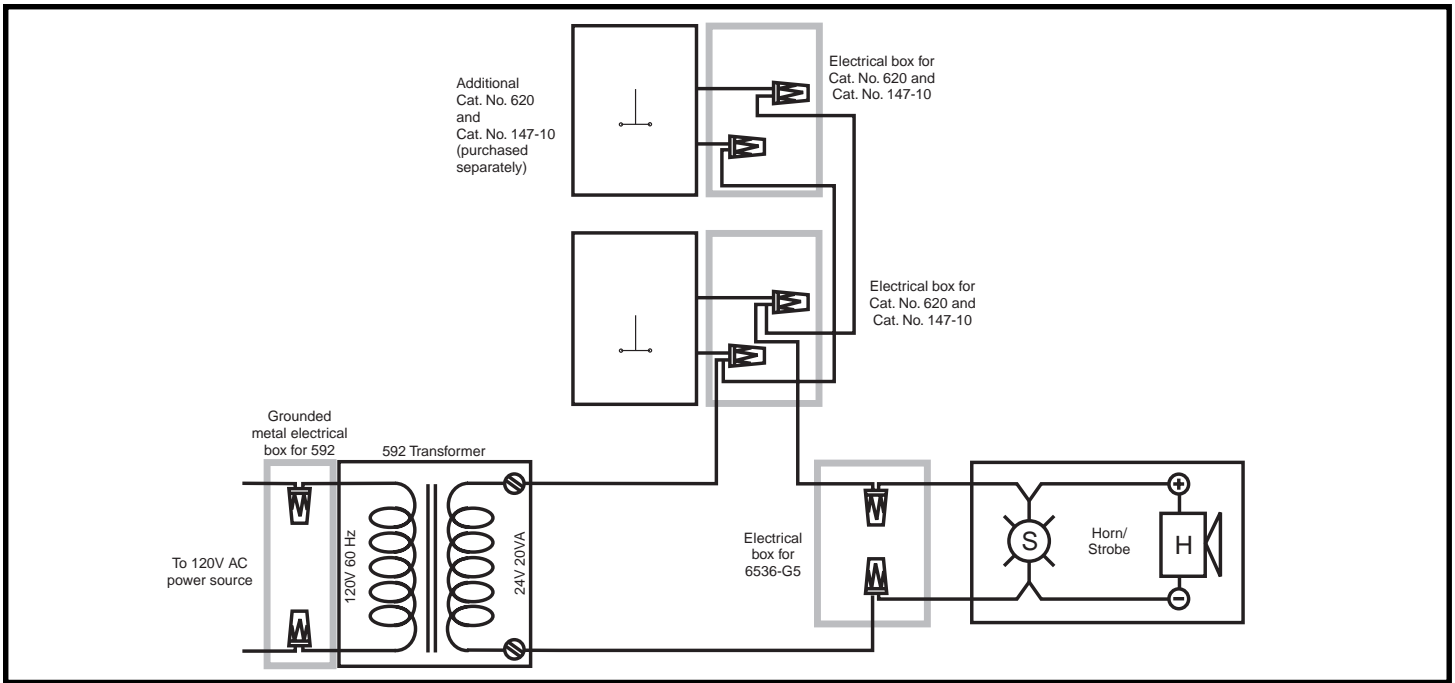


Figure 1. Connecting Catalog No. 7005-G5 Hotel Room Annunciator

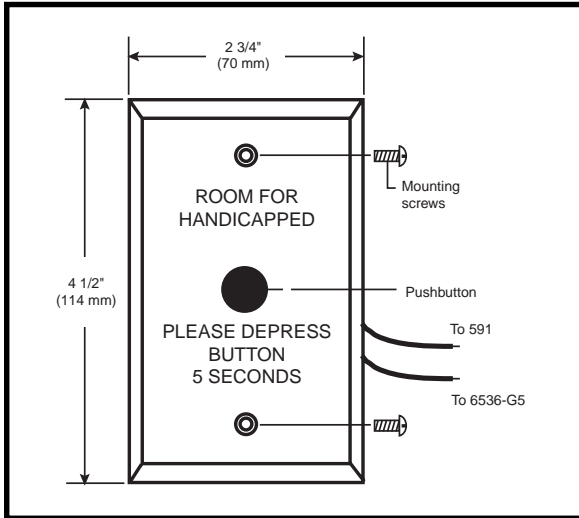


Figure 2. Catalog No. 620 and Catalog No. 147-10

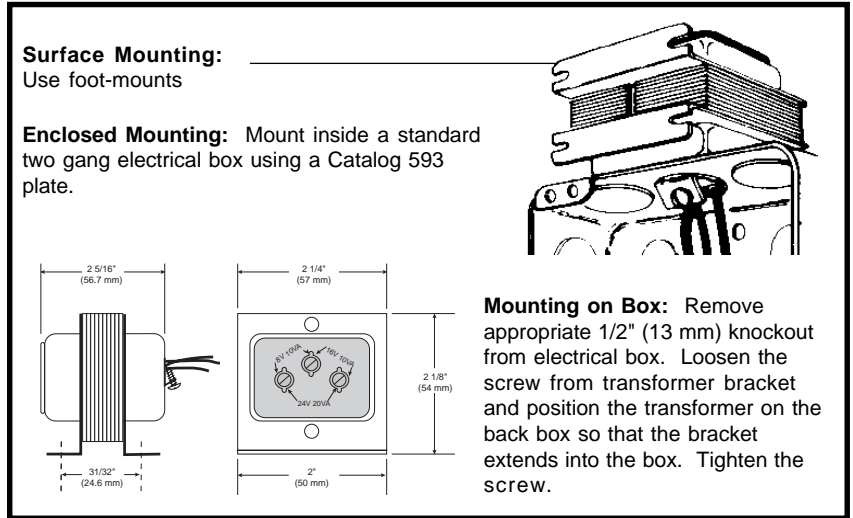


Figure 3. Catalog No. 592 Transformer

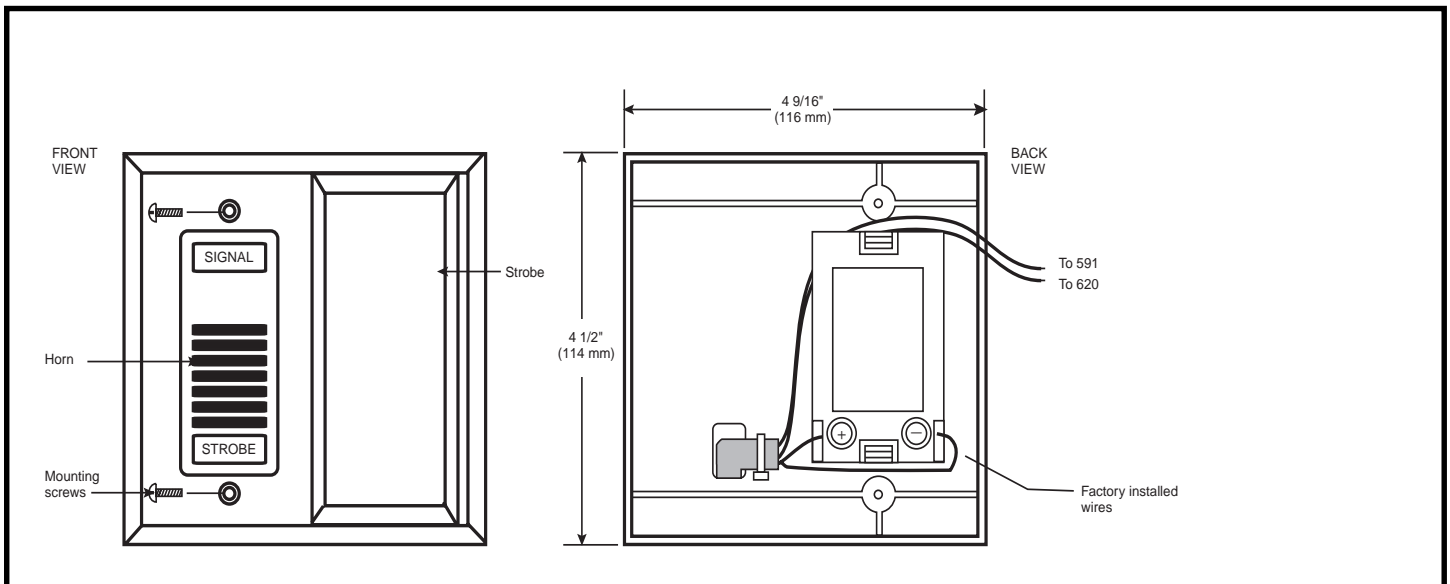


Figure 4. Catalog No. 6536-G5 Horn/Strobe

# 7139CS / 7139LS Series

## Photoelectric Smoke Alarm with Visual Signaling Appliance

120 VAC with 9V Battery Back-Up Single/Multiple Station Smoke Alarm

12 units per carton, 21 pounds per carton

### Applications

The 7139CS and 7139LS photoelectric single/multiple station smoke alarms are engineered to virtually eliminate nuisance alarms and deliver outstanding performance wherever reliable fire protection is required. The Series has been designed to give reliable early warning of the presence of smoke where both audible and visual alarms are required for residential and commercial residential applications, including homes, apartments, hospitals, hotels and motels.

The 7139CS and 7139LS features a 90dBA solid state piezo signal and a 177 candela strobe with "FIRE" lettering. Upon activation, the smoke alarm will emit a 90dBA local audible signal and activate the high intensity strobe. During the alarm period the strobe will flash at a brightness of 177 candela 60 times per minute.

The 7139CS and 7139LS provides an exclusive patented three-position test feature that simulates a 0.85% and 3.5% actual smoke condition in full compliance with NFPA 72 and UL Standards.

The 7139CS and 7139LS smoke alarms are ANSI/UL 217 and the strobe is listed per ANSI/UL 1971 and are warranted for one year from date of purchase.

### Standard Features

- Available in 120 VAC with 9v battery back-up
- 9 foot line cord (7139LS model)
- Photoelectric smoke sensing technology
- 177 candela rating
- Horn frequency 3100Hz (nominal)
- 90dBA temporal 3 evacuation piezo horn
- Nominal 2.5% sensitivity
- Patented three position test switch
- Form C relay contacts for remote annunciation (7139CS models)
- Relay operates on battery back-up
- Quick-disconnect wiring harness (7139CS models)
- Interconnect with Gentex tandem capable smoke alarms (7139CS models)
- Non-latching (self restoring) alarm
- 5-to-1 signal-to-noise ratio
- Pulsing LED sensing chamber
- Fully insect screened
- Easy Wash® on-site maintenance washing program
- Mounting hardware adapts to standard junction boxes
- Low or missing battery indicator
- One year warranty from date of purchase



### Product Listings

SIGNALING



LISTED

- ANSI/UL 217 and ANSI/UL 1971 Listed
- MEA: 285-91-E
- BFP (City of Chicago)
- MSFM Listing: 1929

### Product Compliance

- NFPA 72
- Americans with Disabilities Act (ADA)
- IBC/IFC/IRC
- Quality Management System is certified to: ISO 9001:2008

 **Easy Wash®**  
On Site Maintenance Program

**7139CS / 7139LS**

Model	Part Number	Voltage (VAC)	Wall Mount	Ceiling Mount	9 Foot Line Cord	Interconnect Up To 6 Units	Form C Contact	9V Battery Back-Up
7139CS-W	917-0019-002	120 VAC	*			*	*	*
7139CS-C	917-0020-002	120 VAC		*		*	*	*
7139LS	917-0018-002	120 VAC	*		*			*

**Notes**

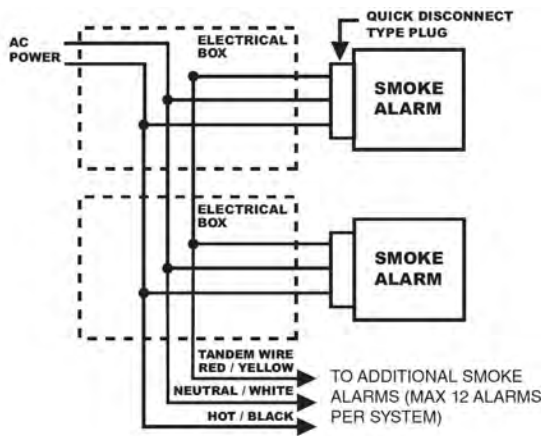
- Available in square configuration only.
- Line cord models not available for ceiling mount applications, wall mount only
- When testing 7139CS and 7139LS units, it may take up to 16 seconds longer for smoke alarm to go in or out of alarm mode.
- It is recommended that 7139CS and 7139LS Series smoke alarm be tested weekly
- Refer to Technical Bulletin 002 for Easy Wash® on site washing instructions
- The 7139CS and 7139LS units produce a temporal 3 audible alarm.
- Candela rating is a 177 candela strobe light listed to ANSI/UL 1971 listed strobe light
- Flash rate per minute: 60 minimum
- 9V battery back-up models, visual does not operate on battery back-up

**Electrical Specifications**

Operating Voltage .....	120 VAC, 60 Hz
Operating Current .....	0.400 amps (peak)
Operating Ambient Temp Range.....	40°F to 100°F
Alarm Horn Rating.....	90dBA at 10 feet
Nominal Sensitivity.....	2.5% obscuration
Auxiliary Relay.....	1 Form C (0.6 amp)
Size .....	5.5" square
	Depth: 4.75"
Secondary Power Source .....	Alkaline 9V battery
	Duracell® MN 1604

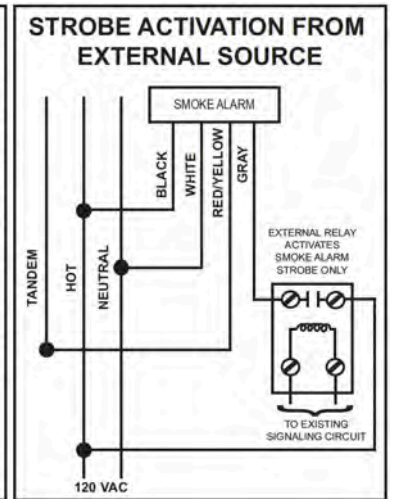
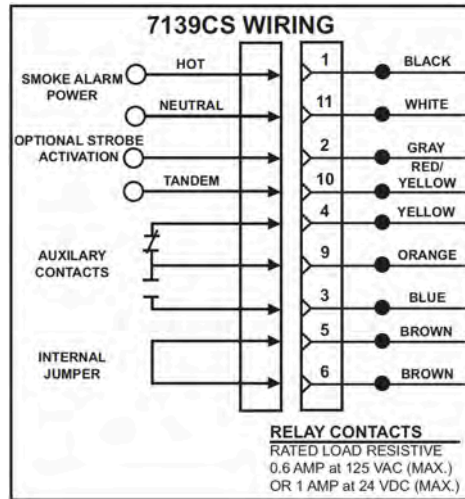
**Wiring Diagram**

**7139CS**



**LIMITATIONS**

Maximum of 6 smoke alarms may be connected together. Do not exceed 125 feet between each smoke alarm. Do not exceed 1125 feet between the first and last smoke alarm.

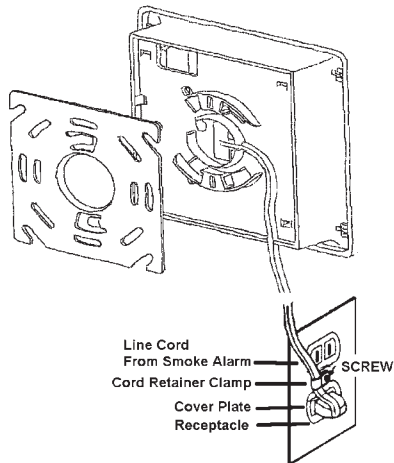


# 7139CS / 7139LS Series

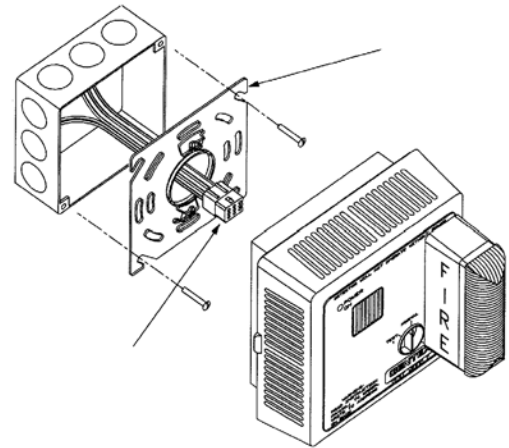
## Photoelectric Smoke Alarm with Visual Signaling Appliance

### Installation

7139LS



7139CS



### Architect & Engineering Specifications

The photoelectric smoke alarm shall be a Gentex Model 7139CS or 7139LS approved equal which shall provide at least the following features and functions.

- Nominal sensitivity shall be 2.5%.
  - The smoke alarm shall utilize an infrared LED sensing circuit which pulses in 4 to 5 second intervals; when subjected to smoke the pulse rate shall increase 8 times. After 2 consecutive pulses in smoke, the smoke alarm will alarm.
  - The smoke alarm shall provide minimum 5-to-1 signal-to-noise ratio in the optics frame to assure stability of operation in environments of high RF and transient conditions.
  - The sensing chamber shall be fully screened to prevent entrance of small insects, thus reducing the probability of false alarms.
  - A temporal 3 piezo horn rated at 90dBA at 10ft.
  - A visual LED monitor (condition indicator) will pulse in normal operation and will remain solid in alarm.
  - The visual signal shall have a minimal light output of 177 candela and will flash one time per second.
  - An easily accessible test knob shall be provided. The test knob in the TEST position will simulate an actual smoke condition of approximately 3.5% causing the smoke alarm to alarm within 20-36 seconds. Also the detector shall test for the most sensitive setting. An alarm during this test will be a maintenance indicator.
- The 7139CS smoke alarm shall be provided with a Form C relay contact for remote annunciation purposes.
  - The 7139LS smoke alarm shall be provided with a 9 foot line cord with a strain relief connection, if a portable unit.
  - The 7139CS shall have interconnect capabilities of up to 6 units.
  - The manufacturer shall provide other compatible smoke alarm models with the following optional features: a) auxiliary Form C relay contact for initiating remote functions and annunciation; b) relay option that is capable of activation by tandem interconnect wire.
  - Unit must be capable of providing a monitored battery back-up. The alarm shall have a 9V alkaline battery as a back-up in the event building power is lost.
  - Unit must be ANSI/UL 217 and ANSI/UL 1971 listed for wall mount (7139CS and 7139LS) or ceiling mount (7139CS only).
  - Unit shall also meet all requirements of the NFPA 72 and the Americans with Disabilities Act ADA).

All equipment shall be completely factory assembled, wired and tested, and the contractor shall be prepared to submit a certified letter testifying to this condition. Smoke alarms which do not meet all of the requirements of this specification will not be considered.

**GENTEX**  
CORPORATION

Fire Protection Products Group | 10985 Chicago Drive | Zeeland, MI 49464  
gentex.com | Phone: 616.392.7195 | Toll-free: 800.436.8391 | Fax: 616.392.4219

551-0037-04

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July 15, 2024

**City of Las Vegas**  
**Building & Safety**  
495 S. Main St  
Las Vegas, NV 89101

Attn: Jim Fosdick  
James.fosdick@bureauveritas.com

Re: Permit #: C24-01340  
**SNRHA Bennett Plaza Phase II**

*Written Narrative of review comments and changes.*

The following are resubmittals to the Construction Documents in response to building department comments.

**Architectural Comments**

1. Please arrange Plan Sheets in order when resubmitted.  
**Response:** Plan sheets revised.
2. Per CLV submittal requirements, approved Civil plans are to be submitted for comparison review.  
**Response:** L23-01113 under permit review.
3. Reference and use 2021 IBC, with CLV Amendments, for all plans, Notes, and Details.  
**Response:** Provided updated code analysis.
4. Reference and use 2021 International Fire Code, with CLV Amendments, for all plans, Notes, and Details.  
**Response:** Provided updated code analysis.
5. Type VA construction with NFPA13 fire sprinklers is allowed a maximum of 70 feet in height. Review and revise.  
**Response:** Provided updated code analysis.
6. Indicate on the plans compliance with 2021 IBC, Section 1206 for Airborne and Structure-born sound requirements.  
**Response:** Provided updated general notes to wall types.
7. Amendment to 2021 IBC, Section 1211.1 General. Where newly constructed buildings or facilities contain restrooms that are provided for public use, a minimum of one (1) baby changing table shall be provided to comply with all of the following: 1. Located within a public restroom or other area as approved by the Building Official. 2. Continuously available to both male and female occupants. 3. Applicable provisions of ICC A117.1. Exception: Baby changing tables are not required in facilities that have been issued a permit or license which restricts the admission of children on the basis of age. Review and provide.  
**Response:** Baby changing table provided in both restrooms.

8. Review and revise Sheet G0.00, Analysis Item #13, Fire Resistance Requirements, to indicate compliance with 2012 IBC, Section 704.10, Table 601 and Table 705.5.  
**Response:** Provided updated code analysis.
9. Sheet G0.00, Deferred Submittals. Review and revise to indicate that the indicated Deferred Items shall be provided Structural plans/details/calculations by an appropriate Nevada Licensed Engineer, not contractor. Review and revise.  
**Response:** Provided updated code analysis.
10. Sheet G0.06, ComCheck. By definition of the 2018 IECC, this is a Residential building and shall use ResCheck. Please review and revise. In addition, the total square footage of this building is 69,983, not 21,620.  
**Response:** Provided updated IECC reports.
11. Sheet G0.06. Interior Lighting per ComCheck shall only be for the non-residential portions of the building. All residential portions of the building shall comply with 2018 IECC, Section R404.1 Lighting equipment (Mandatory). Not less than 90 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps. Please review, revise, and coordinate with Electrical.  
**Response:** Response provided in the electrical comments.
12. Sheet G0.06, Mechanical Compliance. ComCheck shall be for the commercial portion of the building only, ResCheck, or similar, shall be used for the Residential portions of the building. Review, revise, and coordinate with Mechanical.  
**Response:** Response provided in the mechanical comments.
13. Sheet G0.10, Detail 1. Label all rooms.  
**Response:** All rooms labeled.
14. Sheet G0.10, Exiting Analysis. Reference and use 2021 IBC.  
**Response:** Updated references provided.
15. Sheet G0.10, Occupancy Schedule – First Floor. Provide Occupant Load for the Lobby and all apartments.  
**Response:** Updated occupancy requirements.
16. Sheet A1.00. Indicate distances from the building to all property lines and adjacent buildings.  
**Response:** Provided distances listed to all property lines and adjacent buildings.
17. Sheet A8.00, Wall Detail 361, indicates the Listing to be used is GA File No. WP 3370. This Listing has not been submitted as a part of the plans. Please review and revise.  
**Response:** Provided listed GA file numbers.
18. Sheet A8.00, Wall Details 600S and 601, are indicated as 1-Hour – Rated. There is no Listing associated with them, Please review and revise.  
**Response:** Provided listed GA file numbers.
19. Sheet A8.10, Detail 11. Provide one specific report, with a statement : “The Contractor shall provide the Listing Report to the Inspector On-Site.”  
**Response:** Provided listing and on-site requirements.
20. Sheet A8.11. Please include the current Metal Stud Soffit Framing Details for Attachment to Wood Trusses and Typical Hard Lid Ceiling (Wood) on the plans.  
**Response:** Updated details.
21. Sheet A8.62, System No. BW-S-0007. Please provide the current Listing on the plans.

**Response:** Provided the updated listings.

22. Sheet A8.62, Wall Opening Protective Materials (CLIV). Please provide the current Listing on the plans.

**Response:** Provided the most current listing.

**Fire Protection Engineering**

1. G0.00- Per 2021 IFC Sec. 907.2.9.3 Group "R2" An Automatic Fire Alarm is required in compliance with 2021 IFC Sec. 907.5. Please clarify.

**Response:** Updated to include automatic fire alarm system.

2. Submit approved civils.

**Response:** L23-01113 under permit review.

3. Per CLV amendments Please provide the following for the Fire Riser Room 901.4.8.2 Exterior Access Door. Automatic sprinkler system riser rooms shall have an exterior access door with a minimum width of 36 inches (914 mm) and a minimum height of 80 inches (2032 mm) Exception: For high-rise, terminal, and covered mall buildings, secondary fire risers may be contained in automatic sprinkler system riser rooms that are located in dedicated rooms as approved by the fire code official in areas without direct access from the exterior.

**Response:** Access door is 36”.

4. 901.4.8.3 Protection. Automatic sprinkler system riser rooms shall be separated from the rest of the building by 1-hour fire partitions.

**Response:** Walls surrounding the fire riser room updated to 1-hr minimum.

5. 901.4.8.4 Size. The riser room shall have a minimum area of 16 square feet (1.49 m2), with a minimum dimension of 4 feet for the first sprinkler riser plus an additional 9 square feet for each additional riser contained.

**Response:** Fire riser is 142 square feet.

6. 901.4.8.5 Clearances for a fire alarm control unit. Where a fire alarm control unit is located in the Automatic sprinkler system riser room, the unit shall be located so that there is a minimum clearance in accordance with the electrical code.

**Response:** Clearances provided for fire alarm control unit in fire riser room.

7. 901.4.8.6 Auxiliary control valves. Automatic sprinkler system riser rooms are not required for auxiliary control valves.

**Response:** Not required.

8. 901.4.8.7 Signage. Weatherproof signage shall be provided on the exterior access door. Signage shall state “Fire Sprinkler Riser Room” in a contrasting color. Letters shall have a minimum height of 2 inches with a minimum stroke of 3/8 inch.

**Response:** Signage added to door schedule.

9. 901.4.9 Environment. Automatic sprinkler system riser rooms and fire pump rooms shall be maintained at a temperature of not less than 40° F and a maximum temperature of 100° F. Heating and cooling units shall be permanently installed. Exceptions: 1. Where the fire sprinkler riser room or fire pump room does not contain a Fire Alarm/Monitoring Panel or spare sprinklers heads, or when these devices are rated for higher ambient temperatures the room shall not be required to be conditioned for maximum temperature. 2. Heating and/or conditioning is not required if calculations





are prepared and sealed by a design professional, on a case-by case address specific basis, proving that the temperature within the riser room does not fall below 40° F or rise above 100° F. To maintain 40° F, the temperature analysis must use a starting temperature of 50° F and use an outside temperature of 0° F for a period of 8 hours. To maintain 100° F, the temperature analysis must use a starting temperature of 90° F and use an outside temperature of 120° F for a period of 8 hours. 3. Where the fire sprinkler riser room or fire pump room contains equipment that has a higher manufacturer's temperature rating acceptable to the fire code official.

**Response:** Fire Riser to be ventilated per mechanical drawings.

Eric Gross  
Architect

KENT A. BARBER  
President

- STRUCTURAL
- CIVIL
- SURVEY
- PLANNING
- FORENSICS

## NEVADA

6765 West Russell Road, Suite 200  
Las Vegas, NV 89118-1811

Phone 702/798-7978  
Fax 702/451-2296  
Email lnelson@lrneng.com

## UTAH

51 West 9000 South  
Sandy, UT 84070-2008

Phone 801/565-8580  
Fax 801/565-9340  
Email lnelson@lrneng.com

729-086-241

July 12, 2024

City of Las Vegas  
495 S. Main St.  
Las Vegas, NV 89101

ATTENTION: XXX

REFERENCE: SNRHA Bennett Plaza Phase II  
Las Vegas, Nevada

At your request we have reviewed the structural plans and calculations for the above referenced project. Below you will find a list of the latest revisions ( $\Delta$ 1) made to the structural drawings.

1. Please provide the year of IBC on page 2 of structural calculations.

**Response:** See revised structural calculations book.

2. Please show numbers in the tables on pages 60 and 61 of structural calculations.

**Response:** See revised structural calculation book.

3. Please provide design calculations for HSS steel columns.

**Response:** See added page on calculation book for HSS steel design and revised S-3 sheet.

4. Please clarify if there is Trash enclosure and if so, please provide drawing details and design calculations.

**Response:** All required trash enclosures on site were completed as part of phase I. No new trash enclosures shall be added as part of phase II.

5. Please provide structural drawing details for the Stairs and Guard Rails and the design calculations.

**Response:** Structural detail for the stairs has been added to the plan. See revised S3, S3.1, and added SD-4.1 sheet. Also, calculation for girder truss has been added to the calculation book.

6. On S2, please clarify why the slab on grade by others.

**Response:** See revised S2 sheet.

7. On S3.2, please refer to the mechanical plans and indicate the weight and the location of the Roof top unit.

**Response:** Roof top units and maximum unit weight have been indicated on the framing plan. See revised S3 sheet.

8. Detail D/M5.00, please provide structural drawing details and calculations for the members and anchorage for the attachment to the main structure.

**Response:** Structural drawing details for fan unit mounting the truss has been provided. See revised S3, S3.1, S3.2, and added SD-5 sheets. Also, calculation for a 4x4 beam carrying mechanical fan unit has been added to the calculation book.

9. On A5.05, please provide the drawing details and design for the hoist beam and anchorage for the guide rail.

**Response:** See added pages on calculation book for hoist beam and anchorage for the guide rail design. Also see added pages on calculation book for masonry column with carrying hoist beam load.

10. On A5.05, please clarify if this is masonry wall or wood stud wall and provide drawing detail and design calculations to support elevator reactions.

**Response:** See added pages on calculation book for masonry wall. Also see revised S-2 sheet and added SD-5 sheet for added detail sheet.

11. On A7.50, please provide the drawing details and design calculations for the roof access ladder to catwalk and anchorage.

**Response:** drawing detail and design calculations have been provided. See added sheet SD-4.1. calculation has been provided in the calculation book.

Additional revised or added sheet:

Sheet S1:

1. The sheet index on top corner has been updated.
2. Deferred submittal items list has been added to general notes.

Sheet S2:

1. The foundation for the masonry wall around the elevator has been changed. See revised S2 sheet.
2. Shear walls calculations have been added and revised, therefore holdowns have been added, revised, or removed. See revised S2 sheet. Calculations have been provided in the calculation book.

Sheet S5, S5.1, S5.2:

1. Shear wall calculations have been added and revised, therefore there have been some changes on the shear walls and holdowns on the plans. See revised sheet S5, S5.1, S5.2. Calculations have been provided in the calculation book.

Sheet S5.3, S5.4, S5.5, S5.6:

2. New sheets have been added showing shear wall plan from elevation view.

If you have any further questions regarding this matter, please call this office at your convenience.

Sincerely,  
L.R. NELSON CONSULTING ENGINEERS, LLC

Kent A. Barber, P.E., S.E.  
Structural Department

KAB/ms





Veteran Owned and Operated  
3590 E. Patrick Lane  
Las Vegas, NV 89120



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June 3, 2024

KME Architects  
5195 S. Durango Dr., Ste 103  
Las Vegas, NV 89113

Attention: Eric Gross, Architect  
Subject: Marion D. Bennett Sr. Plaza Addition  
RE Project No.: LV23.0030

We are in receipt of the plan review comments dated May 31, 2024, for the subject project and have completed our responses of the related items. In response to these comments, we offer the following:

Mechanical:

- Item 1.           Comment:    Sheet M0.11, Mechanical Compliance. ComCheck shall be for the commercial portion of the building only, ResCheck, or similar, shall be used for the Residential portions of the building. Review, revise, and coordinate with Architectural.
- Response:    Use of ComCheck for the entirety of the building in multi-family projects is allowed in Nevada.
- Item 2.           Comment:    Provide outside air location detail that indicates compliance with 2018 UMC, Section 311.3.
- a. 311.3 Prohibited Source
  - b. Outside or return air for a heating or cooling air system shall not be taken from the following locations:
    - i. Less than 10 feet (3048 mm) in distance from an appliance vent outlet, a vent opening of a plumbing drainage system, or the discharge outlet of an exhaust fan, unless the outlet is 3 feet (914 mm) above the outside-air inlet.
    - ii. Less than 10 feet (3048 mm) above the surface of an abutting public way, sidewalk, street, alley, or driveway.
    - iii. A hazardous or insanitary location, or a refrigeration machinery room as defined in this code.
    - iv. An area, the volume of which is less than 25 percent of the entire volume served by such system, unless there is a permanent opening to an area the volume of which is equal to 25 percent of the entire volume served.

Exception: Such openings where used for a heating or cooling air system in a dwelling unit shall be permitted to be reduced to not less than 50 percent of the required area, provided the balance of the required return air is taken from a room or hall having not less than three doors leading to other rooms served by the furnace.

- v. A closet, bathroom, toilet room, or kitchen.
- vi. Rooms or spaces containing a fuel-burning appliance therein. Where such room or space serves as source of return-air.

Exceptions: This shall not apply to fireplaces, fireplace appliances, residential cooking appliances, direct-vent appliances, enclosed furnaces, and domestic-type clothes dryers installed within the room or space. This shall not apply to a gravity-type or listed vented wall heating or cooling air system. This shall not apply to a blower-type heating or cooling air system installed in accordance with the following requirements:

Where the return air is taken from a room or space having a volume exceeding 1 cubic foot (0.03 m<sup>3</sup>) for each 10 Btu/h (0.003 kW) fuel input rating of fuel-burning appliances therein. Not less than 75 percent of the supply air is discharged back into the same room or space. Return-air inlets shall not be located within 10 feet (3048 mm) from an appliance firebox or draft diverter in the same enclosed room or confined space.

Response: **Outside air ducts are spaced more than 10'-0" from exhaust ducts.**  
Distances added to plans of appropriate units.

Item 3. Comment: Provide kitchen exhaust that indicates compliance with 2018 UMC, Table 403.7, Residential – Kitchens. In addition, indicate exhaust ducts that comply with 2018 UMC, Section 502.2.1.

Response: Kitchen exhaust and note is added to sheet M4.10 and M4.20. Nevada allows recirculating range hoods in residential kitchens.



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- Item 4.           Comment:    2018 UMC, Section 502.2.1 Environmental Air Ducts. "Environmental air duct exhaust shall terminate not less than 3 feet (914 mm) from a property line, 10 feet (3048 mm) from a forced air inlet, 10 feet (3048 mm) above a public walkway, and 3 feet (914 mm) from openings into the building. The discharge of environmental exhaust ducts shall not be directed onto a public walkway." Review and provide detail(s) to indicate compliance.
- Response:   Exhaust ducts have been shifted, and distances have been provided.

Plumbing:

- Item 1.           Comment:    Clarify why the project title is Phase II. Where is Phase I? Phase 1 was completed in 2012 and is the first building shown on the site. Refer to architectural and civil for location of existing building.
- Response:   Refer to architectural.
- Item 2.           Comment:    Submit the approved civil plans. Ensure that plumbing plans are coordinated.
- Response:   Civil to submit.
- Item 3.           Comment:    Provide information how the elevator sump pump is drained.
- Response:   Pump discharge has been clarified on sheet P2.10.
- Item 4.           Comment:    P0.10: Per Civil drawing U-1, the existing 2" water meter and RPPA to remain in place. Please recheck the water calculation to indicate the pressure loss through the existing 2" water meter and existing RPPA.
- Response:   Domestic water calculation has been updated to indicate the **existing 2" water meter.**
- Item 5.           Comment:    P2.10: Please show the total Drainage Fixture Unit (DFU) for each branch of the waste pipes and the main waste pipe.
- Response:   **DFU's have been** added to the pipes.
- Item 6.           Comment:    P2.10: Gas tankless water heater, WH-1-Rinnai RU199i is condensing gas water heater type. Please indicate how to terminate the condensing pipe and PRV valve for this gas water heater type.

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	Response:	Refer to notice A on unit plans. Water heaters discharge to exterior.
Item 7.	Comment:	P2.10: Please indicated the discharged of the steel pan as shown on the detail C/P6.02
	Response:	A floor sink has been added under the laundry water heater.
Item 8.	Comment:	P2.20: Gas tankless water heater, WH-1-Rinnai RU199i is condensing gas water heater type. Please indicate how to terminate the condensing pipe and PRV valve for this gas water heater type.
	Response:	Refer to notice A on unit plans. Water heaters discharge to exterior.
Item 9.	Comment:	P2.30: Please provide the horizontal storm drainpipe sizes per roof areas with the rainfall rates including roof slope.
	Response:	Storm drains piping is sized via sheet notes. Areas are labeled on the roof plan. Slope is per general note #29.
Item 10.	Comment:	P2.30: Gas tankless water heater, WH-1-Rinnai RU199i is condensing gas water heater type. Please indicate how to terminate the condensing pipe and PRV valve for this gas water heater type.
	Response:	Refer to notice A on unit plans. Water heaters discharge to exterior.
Item 11.	Comment:	P3.10: Please show the total Water Supply Fixture Unit (WSFU) for each branch of the water pipe and the main water pipe.
	Response:	<b>WSFU's have been added to the pipes.</b>
Item 12.	Comment:	P4.00: Please provide the horizontal storm drainpipe sizes per roof areas with the rainfall rates including roof slope.
	Response:	Storm drain piping is sized via sheet notes. Areas are labeled on the roof plan. Slope is per general note #29.
Item 13.	Comment:	P4.10: Please show the total Drainage Fixture Unit (DFU) for each branch of the waste pipes and the main waste pipe.
	Response:	<b>DFU's have been added to the pipes.</b>
Item 14.	Comment:	P4.10: Gas tankless water heater, WH-1-Rinnai RU199i is condensing gas water heater type. Please indicate how to terminate the condensing pipe and PRV valve for this gas water heater type.



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	Response:	Refer to notice A on unit plans. Water heaters discharge to exterior.
Item 15.	Comment:	P4.11: Please show the total Drainage Fixture Unit (DFU) for each branch of the waste pipes and the main waste pipe.
	Response:	<b>DFU's have</b> been added to the pipes.
Item 16.	Comment:	P4.11: Gas tankless water heater, WH-1-Rinnai RU199i is condensing gas water heater type. Please indicate how to terminate the condensing pipe and PRV valve for this gas water heater type.
	Response:	Refer to notice A on unit plans. Water heaters discharge to exterior.
Item 17.	Comment:	P4.20: Please show the total Water Supply Fixture Unit (WSFU) for each branch of the water pipe and the main water pipe.
	Response:	<b>WSFU's have been added to the</b> pipes.
Item 18.	Comment:	P4.20: The gas pipe size shall be indicated within the keynote #5 to match with the gas riser diagram.
	Response:	Gas size has been indicated within keynote #5.
Item 19.	Comment:	P4.21: Please show the total Water Supply Fixture Unit (WSFU) for each branch of the water pipe and the main water pipe.
	Response:	<b>WSFU's have been added to the pipes..</b>
Item 20.	Comment:	P4.21: The gas pipe size shall be indicated within the keynote #5 to match with the gas riser diagram.
	Response:	Gas size has been indicated within keynote #5.
Item 21.	Comment:	P5.11: Please show the total Drainage Fixture Unit (DFU) for each branch of the waste and vent pipes. Also, provide the total DFU for the main waste pipe and the main vent up through roof.
	Response:	<b>DFU's have been added to the pipes.</b>
Item 22.	Comment:	P5.12: Please show the total Drainage Fixture Unit (DFU) for each branch of the waste and vent pipes. Also, provide the total DFU for the main waste pipe and the main vent up through roof.
	Response:	<b>DFU's have been added to the pipes.</b>

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- Item 23.      Comment:      P5.13: Please show the total Drainage Fixture Unit (DFU) for each branch of the waste and vent pipes. Also, provide the total DFU for the main waste pipe and the main vent up through roof.
- Response:      **DFU's have been added to the pipes.**
- Item 24.      Comment:      P5.14: Please show the total Drainage Fixture Unit (DFU) for each branch of the waste and vent pipes. Also, provide the total DFU for the main waste pipe and the main vent up through roof.
- Response:      **DFU's have been added to the pipes.**
- Item 25.      Comment:      P5.14: Please show the total Water Supply Fixture Unit (WSFU) for each branch of the water pipe and the main water pipe for all water riser diagrams.
- Response:      **WSFU's have been added to the pipes.**
- Item 26.      Comment:      P5.14: Please indicate the circulation pump, CP-1 and expansion tank, ET-1 for gas tankless water heater, WH-1 as shown on detail E/P6.01.
- Response:      Water Heater is not part of P5.14 waste systems.
- Item 27.      Comment:      P5.14: Please indicate the circulation pump, CP-2 and expansion tank, ET-2 for electric tank water heater, WH-2 as indicated on sheet P3.10.
- Response:      Water Heater is not part of P5.14 waste systems.
- Item 28.      Comment:      P6.01: Please modify the detail E/P6.01 to provide the detail of the direct vent for this gas tankless water heater as indicated on water heater schedule sheet P0.11 including the termination point.
- Response:      Refer to sheets M4.10 and M4.20 for venting information.
- Item 29.      Comment:      P6.01: Please modify the detail E/P6.01 to indicate the discharge point of the condensing pipe for this water heater type.
- Response:      The note has been updated on detail E/P6.01.
- Item 30.      Comment:      P6.01: Please modify the note of the T&P valve shown on the detail E/P6.01 because it is impossible to "route the pressure and temperature relief valve from this gas tankless water heater to the



nearest acceptable receptor, or location and discharged with **airgap per code" with the current of WH-1** location as shown on the detail 1,2 &3/P4.20 and detail 1& 2/P4.21 within each unit unless route the exposed pipe on the exterior wall from third floor down to the ground level.

Response: The water heater T&P discharge is to grade. The note has been updated on detail E/P6.01.

Item 31. Comment: P6.02: Please provide the vent for the hub drain as shown on detail D/P6.02.

Response: Vent has been added to the Hub Drain diagram on sheet P6.02.

#### Electrical

Item 1. Comment: Convenience receptacles in wet areas shall be of the GFCI type. (Laundry room) NEC art.210.8.A.10

Response: Laundry room receptacles shown as GFCI. Dryer outlets are provided with GFCI circuit breaker. Refer to sheets E2.10 and E6.00. No laundry rooms in units.

Item 2. Comment: Clearly indicate that the WH is hardwire connection (art.422.31.B) and provided w/locking CB (art.110.25 compliant) in the electrical panel. (Or show disconnect art.110.26 compliant)

Response: Unit water heaters are not hardwire connection. They are a receptacle connection. WH-2 in Unisex Restrooms RR! And RR2 are hardwired and indicate a non-fused disconnect. Panel schedule has been updated to reflect a lockable circuit breaker.

Item 3. Comment: Provide grounding details showing bonding of all grounding electrodes existent at this building, to the grounding bus at main service as per NEC art.250.50/52. Make clear that each MDB is fed from the same utility transformer.

Response: Grounding details shown on sheets E5.00, E5.01, and E5.02. Refer to sheet note #1. Main bonding jumper shown on all boards. Updated sheets to reflect the system is fed from a single transformer.

Item 4. Comment: Provide burial depth for all buried cables/conduit as per NEC art.300.5/50



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Las Vegas, NV 89120



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- Response: Notice added to the UNDERGROUND AND EXTERIOR INSTALLATIONS notices on sheet E0.01.
- Item 5. Comment: All equipment and appurtenances use in this project shall be UL (NRTL) listed or labeled for the purpose as per NEC art.110.3. (note)
- Response: Refer to notice #11 under GENERAL NOTES on sheet E0.01.
- Item 6. Comment: Smoke alarm and carbon monoxide alarms shall be installed outside in the immediate vicinity of each bedroom. IRC R314 & R315
- Response: Combination smoke/carbon monoxide alarms have been shown in the vicinity of the bedrooms.
- Item 7. Comment: Fixture type L1 is recessed type. Provide listing to justify as tested for fire-resistance rated assemblies. IBC Sec. 714.5.2
- Response: Revised fixture L1 to a surface mounted fixture.

In addition to the above, the following changes have been made:

M0.01 – Removed “Existing Conditions” from general notes.

M4.10 – Added Note #9 and added water heater vent/flue to plans.

M4.20 – Added Note #9 and added water heater vent/flue to plans.

Should you have any issues or concerns regarding this correspondence, please contact us at (702) 514-3361 or email me at [chris@revolutionmep.com](mailto:chris@revolutionmep.com).

Sincerely,

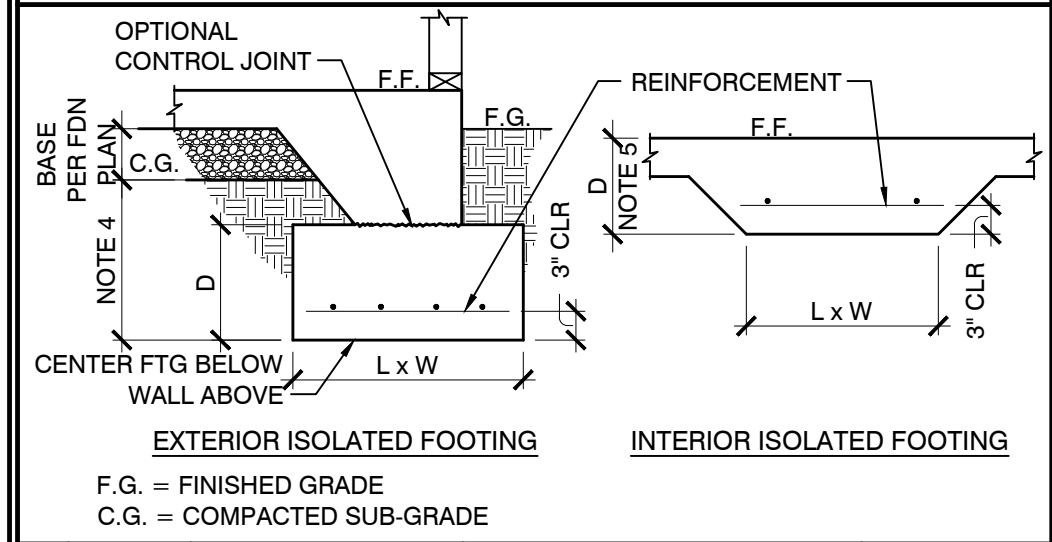
Revolution Engineering, Inc.

A handwritten signature in black ink that reads 'Chris Lovett'.

Christopher J. Lovett, P.E.  
President, Electrical Engineer



### FOOTING AND PIER SCHEDULE



MARK	SIZE L x W x D	REINFORCEMENT	REMARKS
P1	NOTE 1	(4) #4 DOWELS W/ 6" HOOK (1) #3 TIE	NOTE 2
F1	L x W x 1'-0"	#4 AT 12" O.C. EA WAY BOTT	NOTE 6
F2	2'-0" SQ x 1'-0"	(3) #4 EA WAY, BOTT	
F2.5	2'-6" SQ x 1'-0"	(4) #4 EA WAY, BOTT	
F3	3'-0" SQ x 1'-0"	(4) #4 EA WAY, BOTT	
F3.5	3'-6" SQ x 1'-0"	(5) #4 EA WAY, BOTT	
F4	4'-0" SQ x 1'-0"	(5) #4 EA WAY, BOTT	
F5	5'-0" SQ x 1'-0"	(9) #4 EA WAY, BOTT	
F6	6'-0" SQ x 1'-0"	(12) #4 EA WAY, BOTT	

- FOOTING AND PIER NOTES:**
- SIZE TO MATCH ARCHL. BOXED COLUMN (SEE DETAIL 11/SD-1)
  - TOP OF PIER= FINISHED FLOOR
  - TIES SHALL HAVE 1 1/2" COVER & BE LOCATED 2" FROM TOP OF PIER
  - EMBEDMENT BELOW COMPACTED SUB-GRADE PER DETAIL 1/SD-1
  - SEE DETAIL 4/SD-1 FOR MINIMUM EMBEDMENT DEPTH FROM TOP OF SLAB OR LOWEST ADJACENT COMPACTED SUBGRADE
  - SIZE TO MATCH BOX COLUMN + 6" EA. SIDE

### SHEARWALL SCHEDULE <sup>(2, 5, 6, 11, 12, 13)</sup>

MARK	MATERIAL <sup>(4, 14)</sup>	NAILING	ONE SIDED SHEARWALL TWO SIDED SHEARWALL <sup>(6)</sup>		SEISMIC	WIND
			UPPER FLOOR SILL PL CONN <sup>(1, 15)</sup>	ANCHOR BOLTS <sup>(3)</sup> (UNO ON FOUNDATION PLAN)		
P1	3/8" APA SHEATHING <sup>(15)</sup>	8dN AT 6" OC EDGES, 12" FIELD <sup>(16)</sup>	16dS AT 4" OC (STGD) UNO	1/2" DIA X 10" AT 32" OC	260#/FT	365#/FT
P2	3/8" APA SHEATHING <sup>(15)</sup>	8dN AT 4" OC EDGES, 12" FIELD <sup>(16)</sup>	16dS AT 3" OC, (STGD) UNO	1/2" DIA X 10" AT 24" OC	350#/FT	532#/FT
P3	3/8" APA SHEATHING <sup>(15)</sup>	8dN AT 3" OC EDGES, 12" FIELD <sup>(16)</sup>	1/4x6 SCREWS AT 4" OC (STGD), UNO	1/2" DIA X 10" AT 16" OC	490#/FT	685#/FT
P4	3/8" APA SHEATHING <sup>(15)</sup>	8dN AT 2" OC EDGES, 12" FIELD <sup>(16)</sup>	1/4x6 SCREWS AT 4" OC (STGD), UNO	1/2" DIA X 10" AT 12" OC	600#/FT	895#/FT
P5	15/32" APA SHEATHING <sup>(10)</sup>	10dN AT 2" OC EDGES, 12" FIELD <sup>(16)</sup>	1/4x6 SCREWS AT 3" OC (STGD), UNO	1/2" DIA X 10" AT 9" OC	770#/FT	1076#/FT

- SCHEDULE NOTES:**
- SEE DETAIL 7/SD-2 FOR ADDTL INFO AT UPPER FLOOR SILL PLATE CONNECTION FOR MULTI-STORY PLANS ONLY. DOES NOT APPLY TO SINGLE STORY PLANS. SEE PLAN FOR SILL PLATE AND SHEAR CONNECTIONS AT EXTERIOR WALLS.
  - OPENINGS IN SHEARWALL SHEATHING SHALL NOT EXCEED 6 INCHES IN ANY DIRECTION FOR A SINGLE OPENING OR THE SUM OF ANY TWO OR MORE OPENINGS ON COMMON OR OVERLAPPING VERTICAL OR HORIZONTAL LINES. OPENINGS NOT GREATER THAN 8 INCHES DO NOT REQUIRE BLOCKING AROUND THE PENETRATION. CONTACT THE ENGINEER OF RECORD FOR REQUIREMENTS AT OPENINGS NOT OTHERWISE DETAILED.
  - MINIMUM (2) 1/2" DIA ANCHORS PER SHEAR WALL. SEE FOUNDATION HARDWARE NOTES, NOTE 2 ON THE GENERAL NOTES SHEET, S1. ALL ANCHOR BOLTS SHALL HAVE 3" x 3" x 0.229" PLATE WASHERS. BOLT AND WASHER SHALL BE PLACED TO PROVIDE MAXIMUM 1/2" FROM EDGE OF WASHER TO SHEATHING SIDE OF WALL.
  - APA RATED (STRUCTURAL I) PLYWOOD OR OSB.
  - SEE DETAIL 11/SD-2 WHERE WALL FRAMING STEPS OR PERPENDICULAR WALL INTERSECTS SHEAR WALL.
  - FOR SHEAR PANELS ON TWO SIDES OF WALL, USE ONE-HALF THE SPACING GIVEN IN THE SCHEDULE FOR SILL PLATE CONNECTION AND ANCHOR BOLT SPACING, UNO.
  - DOUBLE SIDED SHEARWALLS SHALL HAVE VERTICAL PANEL JOINTS OFFSET TO FALL ON DIFFERENT STUDS OR USE SINGLE 3" NOMINAL STUDS (MIN) AT JOINTS. AT THE ENDS OF THE SHEARWALL, 4X NOMINAL MEMBERS ARE REQUIRED. NAILS ON EACH SIDE SHALL BE STAGGERED.
  - ALL SHEARWALLS REQUIRE DOUBLE 2X TOP PLATES, U.N.O. AT NON-BEARING SHEAR WALLS, SHORTEN STUDS 1/4 INCH TO PROVIDE DEFLECTION CLEARANCE.
  - P2, P3 AND P4 SHEARWALLS SHALL REQUIRE THE FOLLOWING:  
A. STAGGER NAILING ALONG PLYWOOD JOINTS AND SILL PLATES.  
B. SINGLE 3" NOMINAL MEMBERS AT ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS. 3" NOMINAL MEMBERS AT SINGLE SIDED SHEARWALL MAY BE CONSTRUCTED W/ (2) 2X MEMBERS FASTENED TOGETHER W/ (2) ROWS OF 16d SINKERS AT 4" OC.
  - P5 SHEARWALLS SHALL REQUIRE SINGLE 3" NOMINAL MEMBERS AT ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS (MIN), STAGGER JOINT AND SILL PLATE NAILING.
  - ALL SHEARWALL LENGTHS NOTED ON PLAN ARE MINIMUM REQUIRED AND MAY BE INCREASED WITHOUT REVIEW.
  - SHEATHING MAY BE PLACED ON EITHER FACE OF DESIGNATED WALL, UNO.
  - ALLOWABLE SHEAR CAPACITIES ARE IN ACCORDANCE WITH AF&PA SDPWS TABLE 4.3A WITH APPLICABLE OMEGA FACTORS INCLUDED.
  - APA SHEATHING AND GYPSUM SHEATHING MAY BE INSTALLED WITH THE LONG OR SHORT DIRECTION PERPENDICULAR TO THE FRAMING. WHERE APA SHEATHING IS INSTALLED WITH THE SHORT DIRECTION PERPENDICULAR TO THE FRAMING, THE FRAMING MUST BE 16" ON CENTER (MAX). WHERE GYPSUM SHEATHING IS INSTALLED WITH THE SHORT DIRECTION PERPENDICULAR TO THE FRAMING ALL PANEL EDGES MUST BE BLOCKED AND NAILED.
  - 3/8" SHEATHING MAY BE REPLACED WITH 7/16" OR 15/32" SHEATHING WITHOUT ADDITIONAL REVIEW.
  - ALL VERTICAL AND HORIZONTAL PANEL EDGES TO BE BLOCKED AND NAILED.
  - STUDS SHALL BE 24" OC (MAX). FOR 3/8" AND 7/16" SHEATHING, FIELD NAILING SHALL BE REDUCED TO 6" OC WHERE STUD SPACING IS GREATER THAN 16" OC.
  - SILL PLATE CONNECTORS SHALL BE PER SHEAR TRANSFER DETAIL SPECIFIED ON PLANS.

### HOLDDOWN/STRAP SCHEDULE <sup>(7, 2)</sup>

HD/STRAP	EMBED AT FND AND / OR ANCHOR BOLT	CONN TO (2) 2X STUD, UNO <sup>(6, 10)</sup>
CS16	N/A	EXTEND STRAP 16" MIN. EA. END W/ (13) 8dN TO (2) 2X STUD ABOVE AND BELOW FLOOR FRAMING
(2) CS16	N/A	EXTEND STRAP 16" MIN. EA. END W/ (13) 8dN TO (2) 2X STUD ABOVE AND BELOW FLOOR FRAMING
CMSTC16	N/A	EXTEND STRAP 25" MIN. EA. END W/ (28) 16d SINKERS TO (2) 2X STUD ABOVE AND BELOW FLOOR FRAMING
CMST14	N/A	EXTEND STRAP 32" MIN. EA. END W/ (33) 16dN TO (3) 2X STUD ABOVE AND BELOW FLOOR FRAMING
CMST12	N/A	EXTEND STRAP 40" MIN. EA. END W/ (42) 16dN TO (3) 2X STUD ABOVE AND BELOW FLOOR FRAMING
LSTHD <sup>(8, 11)</sup>	8" EMBED	(20) 16d SINKERS
STHD10 <sup>(8, 11)</sup>	10" EMBED	(24) 16d SINKERS
STHD14 <sup>(8, 11)</sup>	14" EMBED	(30) 16d SINKERS
HTTS	SSTB24 W/ 21" EMBED <sup>(12)</sup>	(26) 16dN X 2 1/2" NAILS
HDU2	SSTB24 W/ 21" EMBED <sup>(12)</sup>	(6) SDS 1/4 X 2 1/2 SCREWS W/ MIN (2) 2X POSTS
HDU4	SSTB24 W/ 21" EMBED <sup>(12)</sup>	(10) SDS 1/4 X 2 1/2 SCREWS W/ MIN (2) 2X POSTS
HDU5	SSTB24 W/ 21" EMBED <sup>(12)</sup>	(14) SDS 1/4 X 2 1/2 SCREWS W/ MIN (2) 2X POSTS
HDU8	SSTB34 W/ 29" EMBED <sup>(13)</sup>	(20) SDS 1/4 X 2 1/2 SCREWS W/ MIN (3) 2X POSTS
HDU11	1" DIA AB W/ 9" MIN EMBED W/ MIN 28" SQ x 14" DEEP FTG <sup>(7)</sup>	(30) SDS 1/4 X 2 1/2 SCREWS W/ MIN 4X8 POST <sup>(9)</sup>
HDU14	1" DIA AB W/ 10" MIN EMBED W/ MIN 30" SQ X 15" DEEP FTG <sup>(7)</sup>	(36) SDS 1/4 X 2 1/2 SCREWS W/ MIN 4X8 POST <sup>(9)</sup>

- SCHEDULE NOTES:**
- HD/STRAP SHALL BE SIMPSON OR EQUAL W/ ICC APPROVAL. ALL SUBSTITUTES SHALL BE REVIEWED BY THE ENGINEER OF RECORD BEFORE INSTALLATION.
  - FIXED-LENGTH STRAPS SHALL BE INSTALLED WITH AN EQUAL LENGTH OVERLAPPING CONNECTED MEMBERS AND AN EQUAL NUMBER OF FASTENERS IN EACH MEMBER.
  - STITCH NAIL EACH STUD AT MULTIPLE 2x STUDS TOGETHER WITH 16d SINKERS AT:  
4" OC FOR P3 AND P4 SHEAR WALLS  
6" OC FOR ALL OTHER SHEAR WALLS
  - FOR CONCRETE SPALLS LESS THAN 4", THERE IS NO LOAD REDUCTION AND NO FURTHER REVIEW BY EOR IS REQUIRED.
  - SEE DETAIL 4/SD-2 FOR ADDL CRITERIA AT UPPER FLOOR STRAPS (WHERE OCCURS).
  - EDGE DETAIL SHITG TO EA MEMBER OF MULTIPLE POST, OFFSET 1/2" SPACING BTWN MEMBERS.
  - ASTM F1554-55 BOLT W/ HEAVY SQUARE NUT OR 1/4 X 1 3/4 X 1 3/4 PLATE WASHER REQUIRED FOR FULL LOAD. REDUCE ALLOWABLE LOAD TO 13180 LBS FOR ASTM GRADE 36 BOLT. MINIMUM EMBEDMENT IS FROM TOP OF FOOTING.
  - ASTM GRADE 36 BOLT W/ SQUARE OR HEAVY HEX HEAD OR NUT REQUIRED. MINIMUM EMBEDMENT IS FROM TOP OF FOOTING.
  - PROVIDE 6X8 POST AT 2X6 WALLS, MULTIPLE STUDS NOT ALLOWED.
  - END POST TO BE FULL HEIGHT MEMBERS, UNO.
  - STRAPS MAY BE PLACED ON EITHER FACE OF DESIGNATED WALL AND ARE NOT REQUIRED TO OCCUR ON SAME FACE AS SHEATHING, UNO.
  - AT GARAGE STEMWALL LOCATIONS USE SSTBL.
  - WHEN SLAB AND FOOTINGS ARE PLACED AS A MONO-POUR, SSTB28 WITH 25" EMBEDMENT MAY BE SUBSTITUTED FOR THE SSTB34 SPECIFIED.

### FRAMING NOTES:

- ALL EXTERIOR WALLS AND INTERIOR BEARING AND SHEAR WALLS TO BE MIN 2x4 AT 16" O.C. DFL STUD GRADING, UNO. SEE FRAMING PLANS FOR NON-TYPICAL STUD SIZE AND SPACING.
- TRIMMER / KING STUD SCHEDULE, UNO.

	OPENING SPAN (L)	TRIMMERS	KING STUDS
2x4 WALLS	L < 6'-0"	1	1
	6'-0" ≤ L < 10'-0"	2	2
2x6 WALLS	L < 6'-0"	1	1
	6'-0" ≤ L < 12'-0"	2	2
	12'-0" ≤ L < 20'-0"	2	3

- BLOCKED DIAPHRAGM - SEE STRUCTURAL GENERAL NOTES SHEET S1.
- FOR TYPICAL OVERFILL FRAMING WHERE REQUIRED BY TRUSS SHOP DRAWINGS, SEE DETAILS 4/SD-3 OR 5/SD-3.
- INTERIOR BEARING WALLS
- BEAM AND HEADER SIZES INDICATED ON THIS PLAN ARE MINIMUM. LARGER SIZES OR HIGHER GRADE LUMBER MAY BE SUBSTITUTED.
- TOP PLATE SPLICES PER DETAIL 3/SD-2, UNO.
- SEE DETAIL 8/SD-2 FOR ADDITIONAL FRAMING REQUIREMENTS.
- 8" SOLID CMU

### LEDGER & HANGER SCHEDULE:

UNLESS OTHERWISE NOTED 2X LEDGERS WHERE DETAILED SHALL BE AS FOLLOWS:

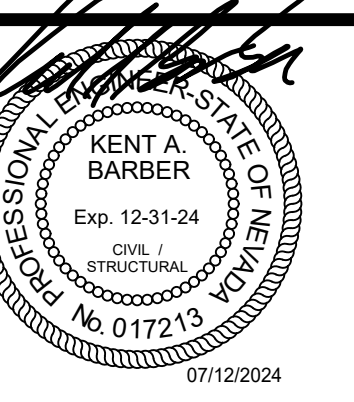
	SPAN (L)	SPACING (MAX)	LEDGER AND NAILING <sup>(1, 2, 6, 10, 11)</sup>		MIN HANGER, UNO <sup>(8, 4, 5, 11)</sup>
			TRUSS	FLOOR LOAD	
ROOF LOAD	L ≤ 6'-0"	16" O.C.	2X6 W/ (3) 16d AT 16" OC	LUS24/JUS24	
			24" O.C.	2X8 W/ (5) 16d AT 24" OC	LUS24/JUS24
	L ≤ 16'-0"	24" O.C.	2X8 W/ (5) 16d AT 16" OC	LUS26/JUS26	
			2X12 W/ (8) 16d AT 24" OC	LUS26/JUS26	
L ≤ 24'-0"	24" O.C.	2X12 W/ (8) 16d AT 16" OC	LUS28/JUS28		
FLOOR LOAD 4x MEMBER	L ≤ 10'-0"	16" O.C.	2X8 W/ (5) 16d AT 16" OC	LUS46/JUS46	
			24" O.C.	2X10 W/ 2 COLUMNS OF (6) 16d AT 24" OC	LUS46/JUS46
	L ≤ 20'-0"	24" O.C.	2X10 W/ 2 COLUMNS OF (6) 16d AT 16" OC	LUS48/JUS48	
			2X12 W/ 2 COLUMNS OF (8) 16d AT 24" OC	HUS48/HUS48	
FLOOR LOAD 2x MEMBER	L ≤ 10'-0"	16" O.C.	2X8 W/ (5) 16d AT 16" OC	LUS26/JUS26	
			24" O.C.	2X10 W/ 2 COLUMNS OF (6) 16d AT 24" OC	LUS26/JUS26
	L ≤ 20'-0"	24" O.C.	2X10 W/ 2 COLUMNS OF (6) 16d AT 16" OC	LUS28/JUS28	
			2X12 W/ 2 COLUMNS OF (8) 16d AT 24" OC	HUS28/HUS28	
DECK LOAD 2x MEMBER	L ≤ 10'-0"	16" O.C.	2X10 W/ (2) 1/4"x3" SCREWS AT 16" OC	LUS26/JUS26	
			24" O.C.	2X10 W/ 2 COLUMNS OF (2) 1/4"x3" SCREWS AT 24" OC	LUS26/JUS26
	L ≤ 15'-0"	24" O.C.	2X10 W/ 2 COLUMNS OF (2) 1/4"x3" SCREWS AT 16" OC	LUS28/JUS28	
			2X10 W/ 2 COLUMNS OF (3) 1/4"x3" SCREWS AT 24" OC	HUS28/HUS28	

- SCHEDULE NOTES:**
- TWO COLUMNS OF FASTENERS REQUIRE MIN SUPPORTING MEMBER RECEIVING FASTENERS OF 3" OR (2) 2X IN WIDTH (ENDS OF 4X2 OR DOUBLE TRUSSES ARE ACCEPTABLE). SPACE FASTENERS MIN 1" APART IN EACH DIRECTION.
  - SPACING SHOWN EQUALS SPACING OF FRAMING MEMBERS RECEIVING FASTENERS.
  - HANGERS LISTED IN ORDER ARE BY SIMPSON STRONG-TIE AND USP, RESPECTIVELY.
  - LISTED HANGERS ARE MINIMUM HANGERS REQUIRED WHERE NOT OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS.
  - SPACING SHOWN FOR HANGERS IS SPACING OF THE FRAMING MEMBER SUPPORTED BY THE HANGER.
  - LEDGER MATERIAL SHALL BE DFL #2 OR BETTER UNO. LEDGER AT DECK SHALL BE PRESSURE-PRESERVATIVE TREATED OR NATURALLY DURABLE WOOD.
  - PROVIDE THA218 (MIN) HANGER FOR ROOF TRUSS TO BEAM CONNECTIONS FOR ALL BEAM DEPTHS GREATER THAN 10 INCHES.
  - PROVIDE THA418 (MIN) HANGER FOR FLOOR TRUSS TO BEAM CONNECTIONS FOR ALL BEAM DEPTHS GREATER THAN 10 INCHES.
  - PROVIDE THA422 (MIN) HANGER FOR FLOOR TRUSS TO BEAM CONNECTIONS FOR ALL BEAM DEPTHS GREATER THAN 18 INCHES.
  - ALL SIMPSON SCREWS NOTED SHALL BE STRONG DRIVE SDS SCREWS. ALL USP SCREWS NOTED SHALL BE WS SCREWS.
  - HANGERS AND FASTENERS WITH EXTERIOR EXPOSURE SHALL BE STAINLESS STEEL, UNLESS NOTED OTHERWISE.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

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Fax: 702.888.2089  
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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT: SHEET TITLE: SCHEDULES AND NOTES

**BUILDING PERMIT PACKAGE**  
04-25-2024

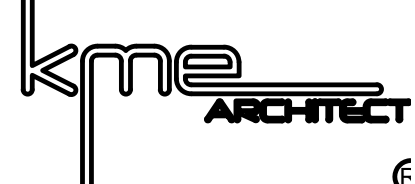
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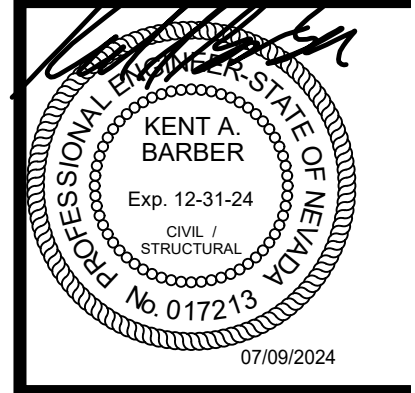
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SHEET

**S1.1**



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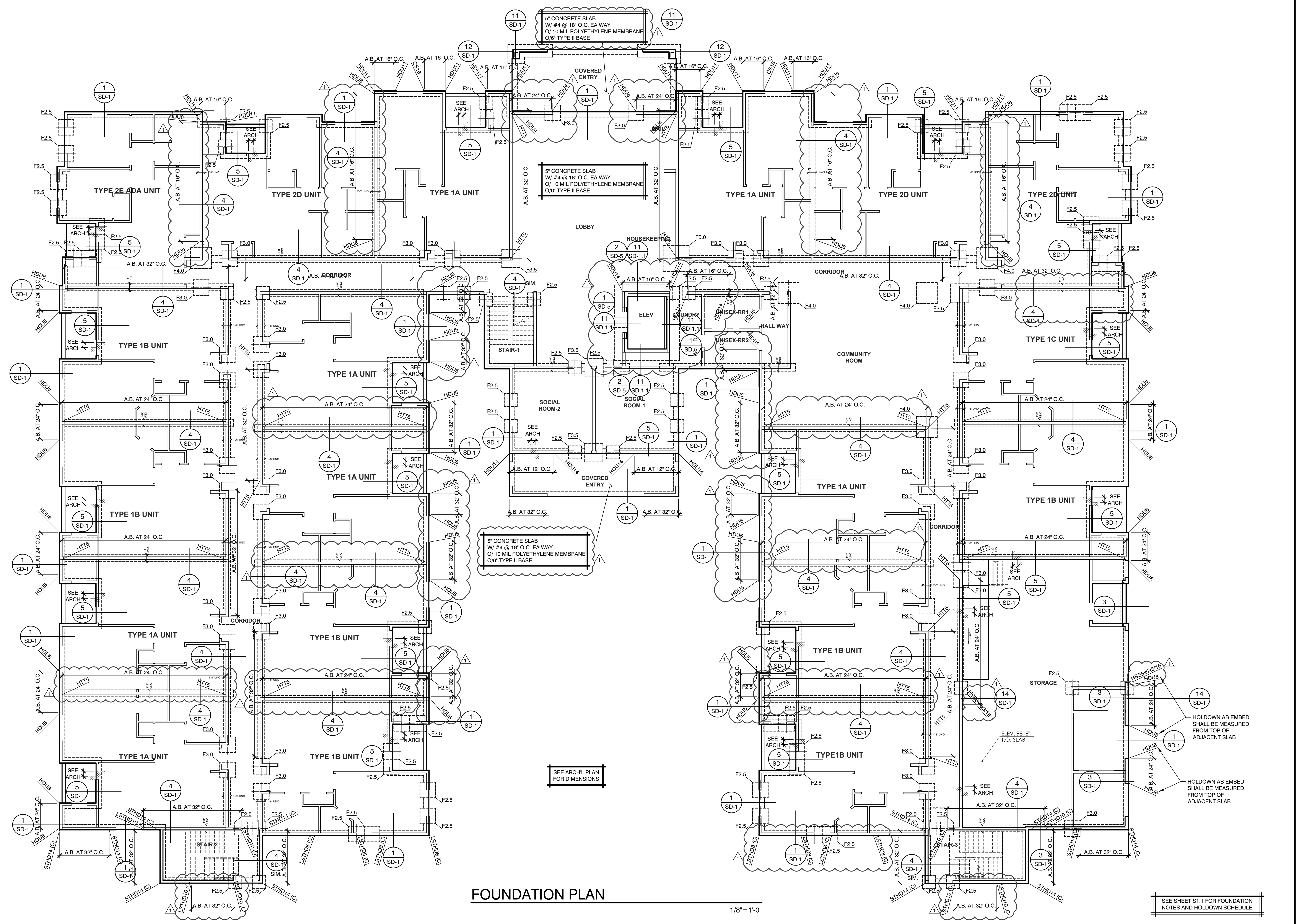
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SHEET TITLE: FOUNDATION PLAN

**BUILDING PERMIT PACKAGE**  
04-25-2024

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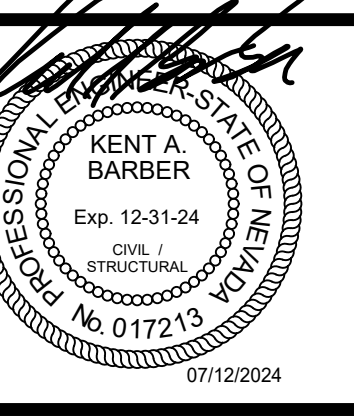
SHEET **S2**



**FOUNDATION PLAN**

1/8" = 1'-0"

SEE SHEET S1.1 FOR FOUNDATION NOTES AND HOLDOWN SCHEDULE



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PROJECT:

SHEET TITLE: FRAMING PLAN

**BUILDING PERMIT PACKAGE**  
04-25-2024

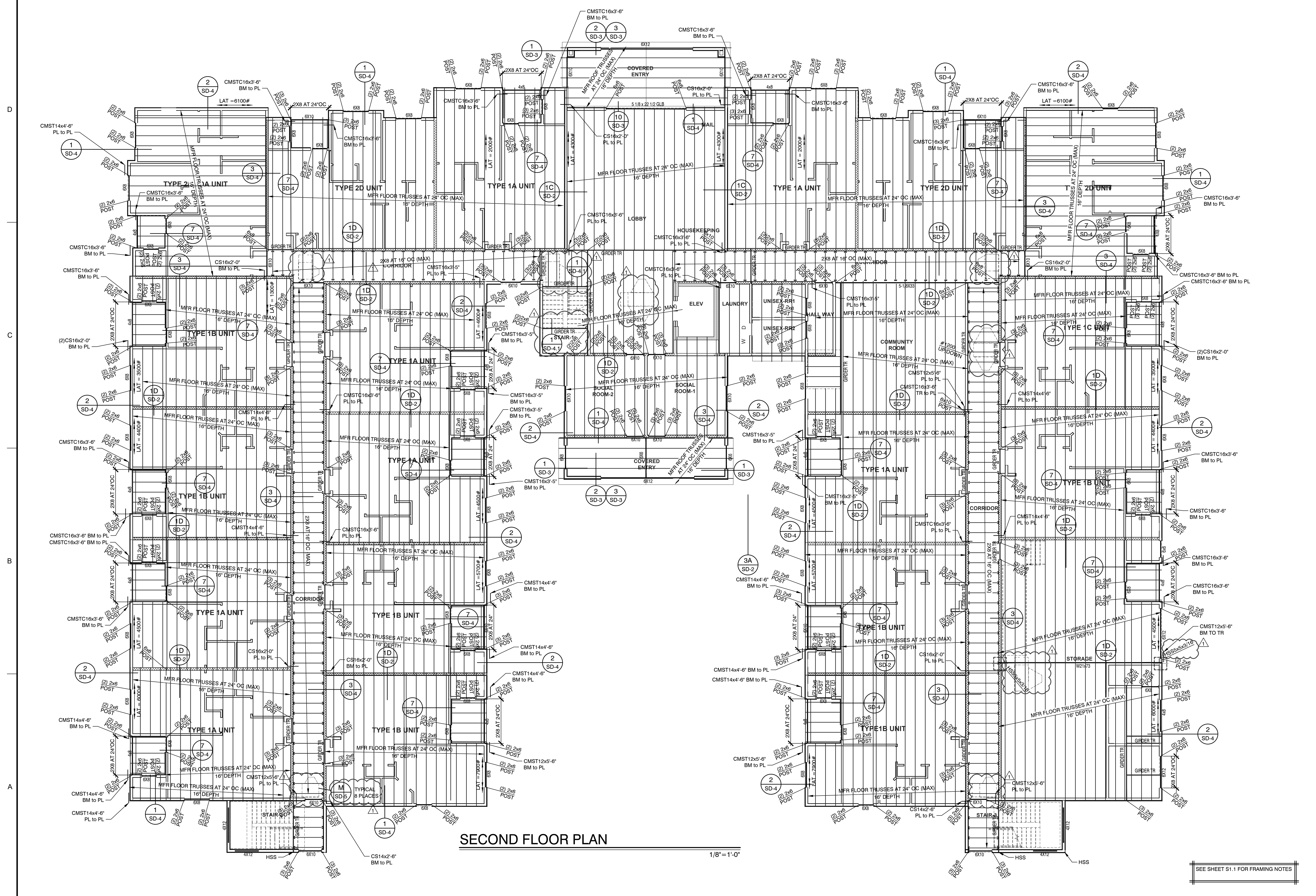
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**S3**

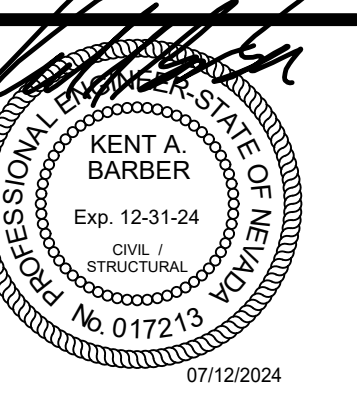


**SECOND FLOOR PLAN**

1/8"=1'-0"

SEE SHEET S1.1 FOR FRAMING NOTES





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PROJECT:

SHEET TITLE: FRAMING PLAN

**BUILDING PERMIT PACKAGE**  
04-25-2024

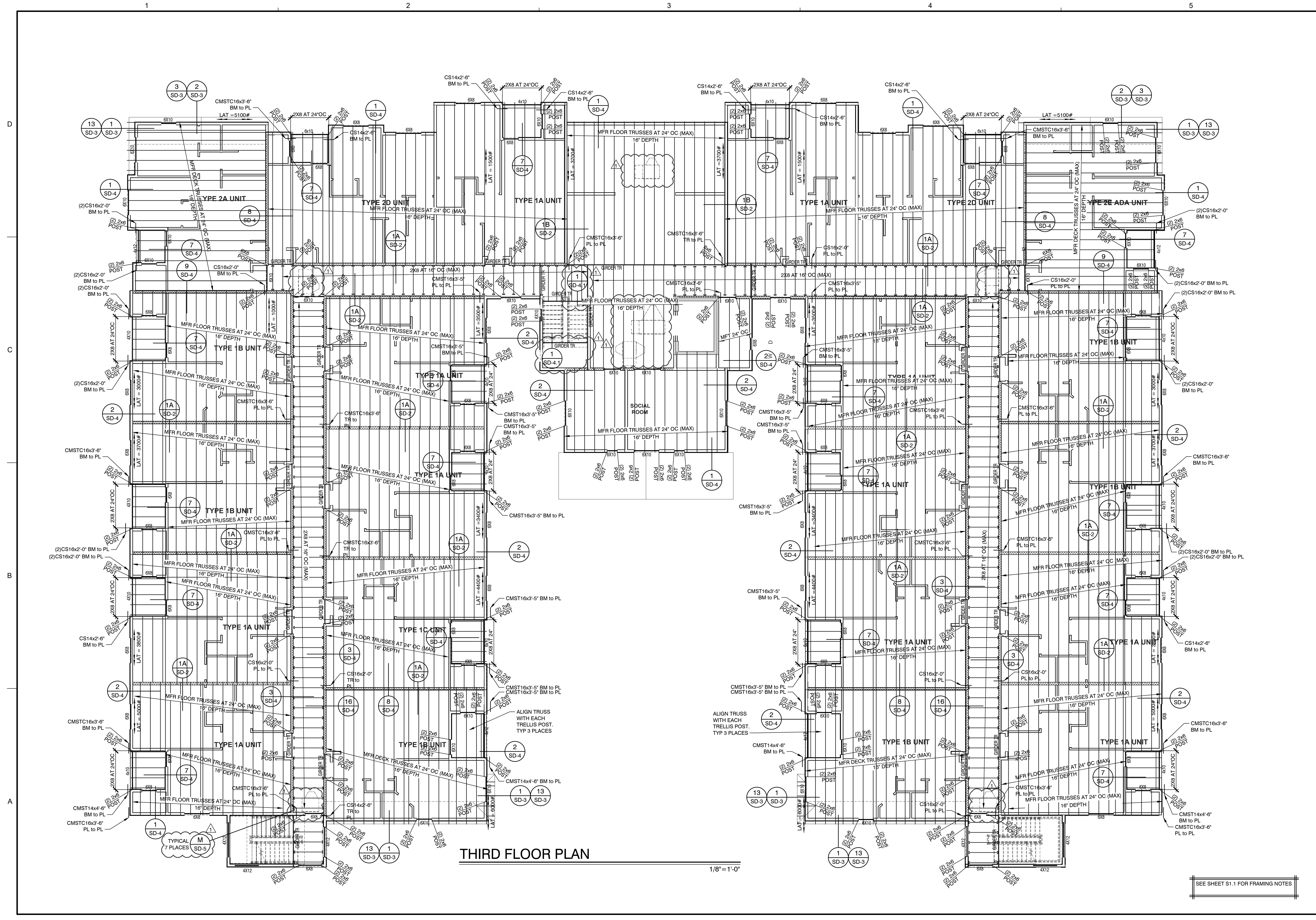
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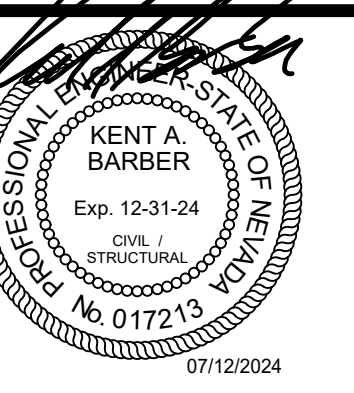
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PROJECT:

SHEET TITLE: FRAMING PLAN

**BUILDING PERMIT PACKAGE**  
04-25-2024

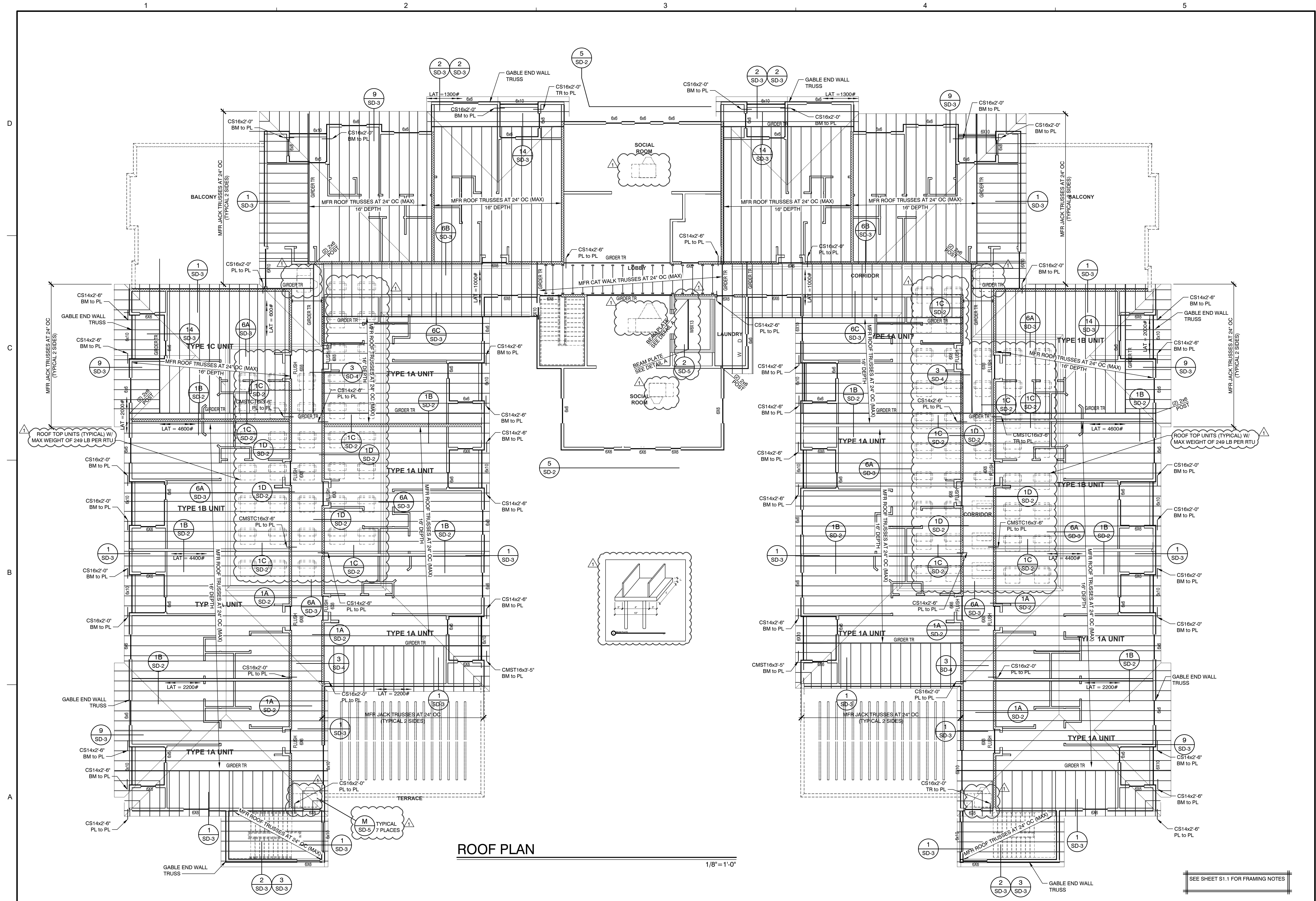
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**S4**



**ROOF PLAN**  
1/8" = 1'-0"

SEE SHEET S1.1 FOR FRAMING NOTES

1

2

3

4

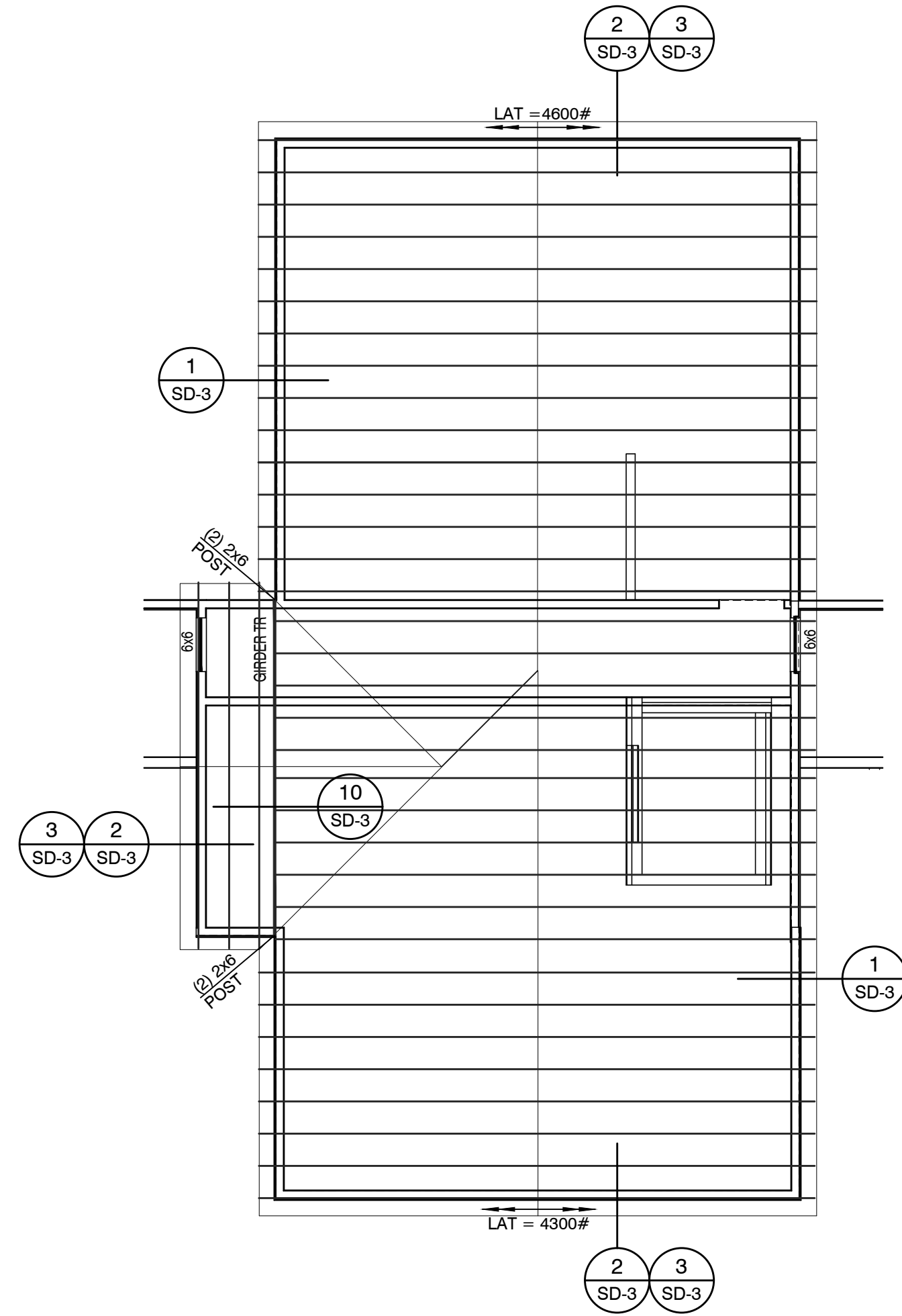
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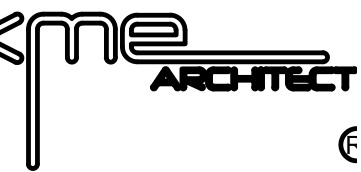
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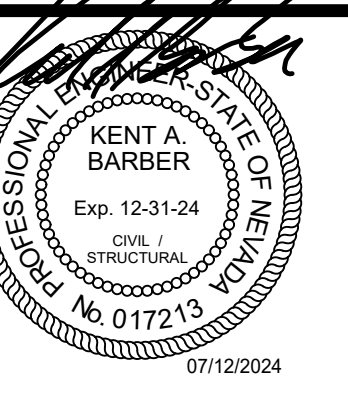


**ROOF PLAN**  
1/8" = 1'-0"



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

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Fax: 702.888.2089  
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PROJECT:

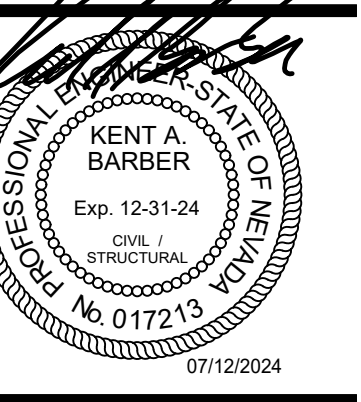
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**BUILDING PERMIT PACKAGE**  
04-25-2024

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**S4.1**



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**SHEET TITLE:** SHEAR WALL PLAN

**BUILDING PERMIT PACKAGE**  
04-25-2024

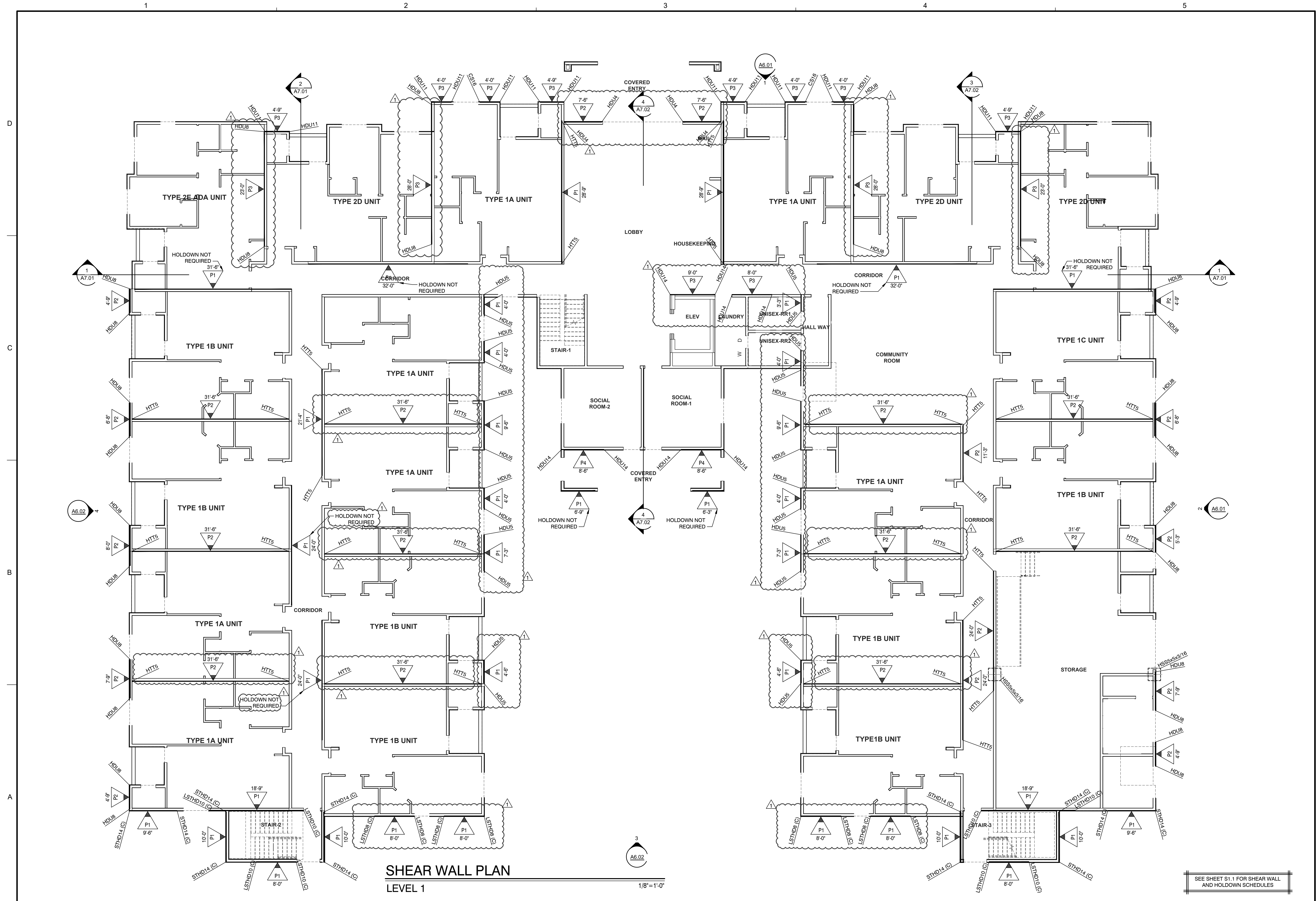
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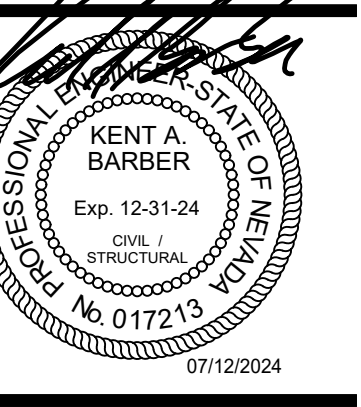
**SHEET**

**S5**



**SHEAR WALL PLAN**  
LEVEL 1  
1/8"=1'-0"

SEE SHEET S1.1 FOR SHEAR WALL AND HOLDOWN SCHEDULES



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SHEET TITLE: SHEAR WALL PLAN

BUILDING PERMIT PACKAGE  
04-25-2024

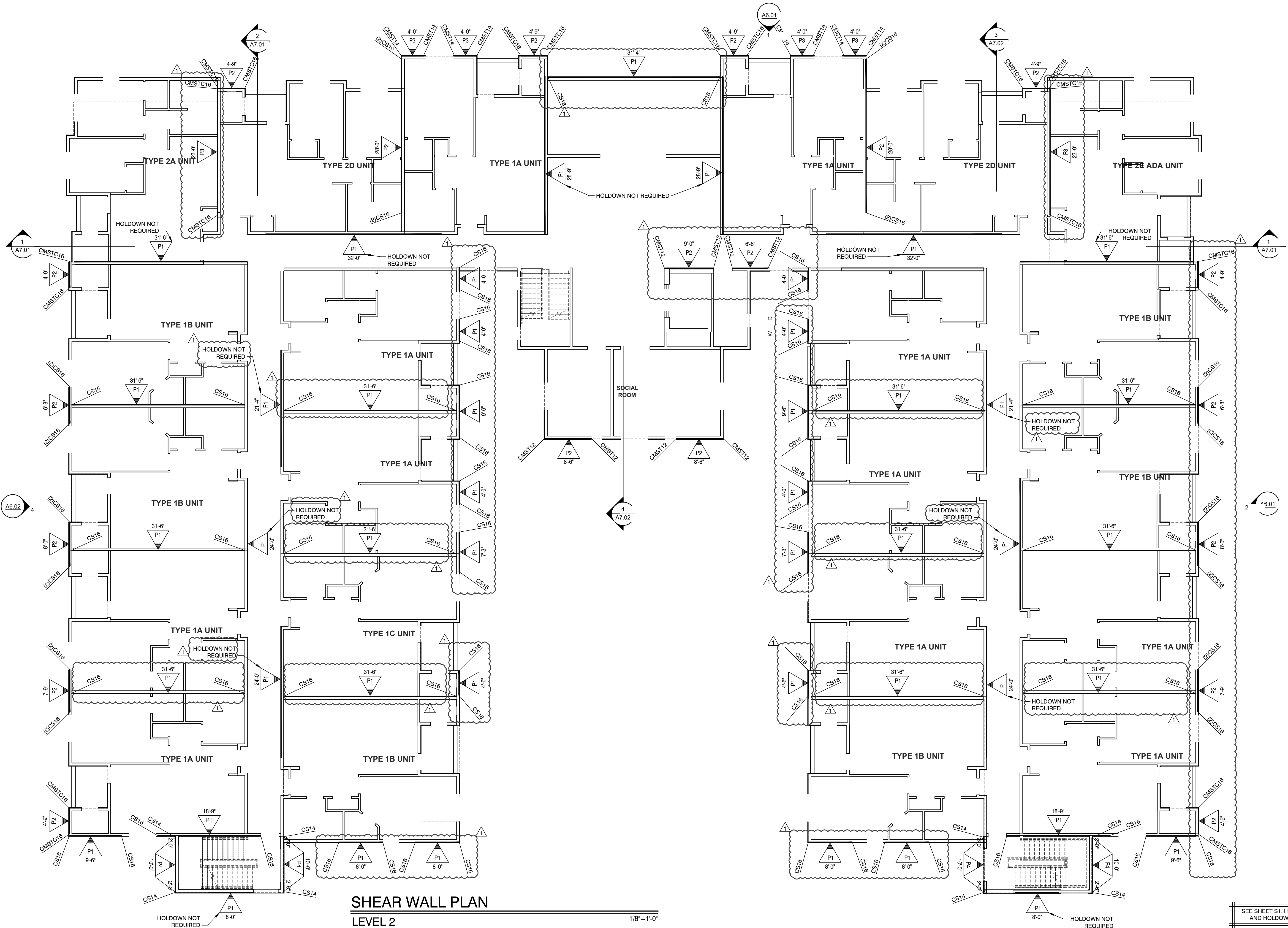
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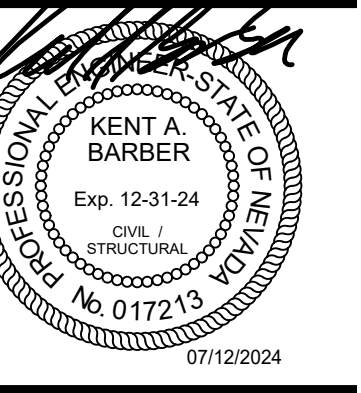
SHEET

S5.1



SHEAR WALL PLAN  
LEVEL 2  
1/8"=1'-0"

SEE SHEET S1.1 FOR SHEAR WALL AND HOLDOWN SCHEDULES



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PROJECT:

SHEET TITLE: SHEAR WALL PLAN

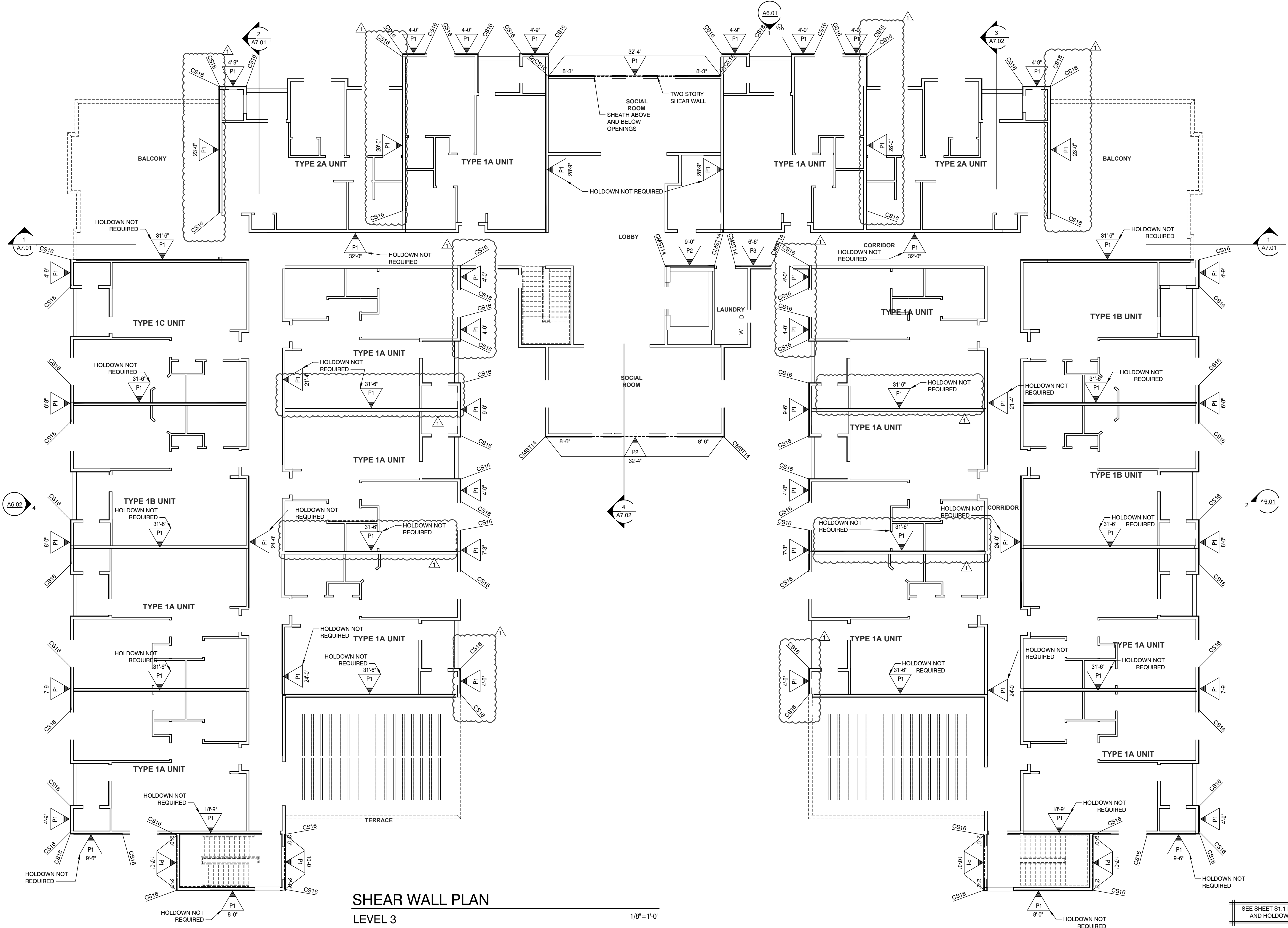
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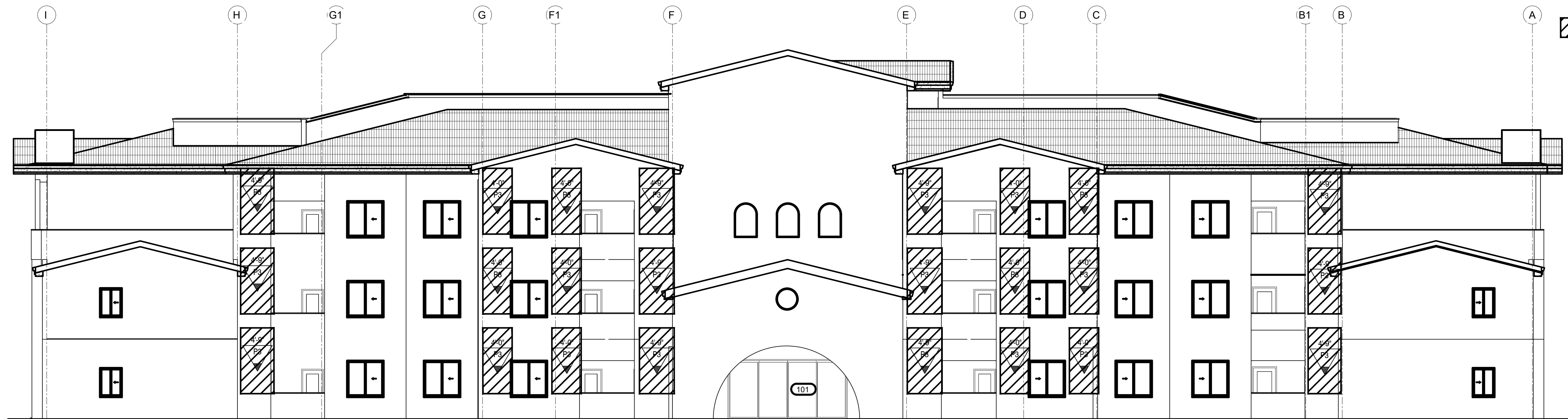
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SHEET **S5.2**



**SHEAR WALL PLAN**  
LEVEL 3  
1/8" = 1'-0"

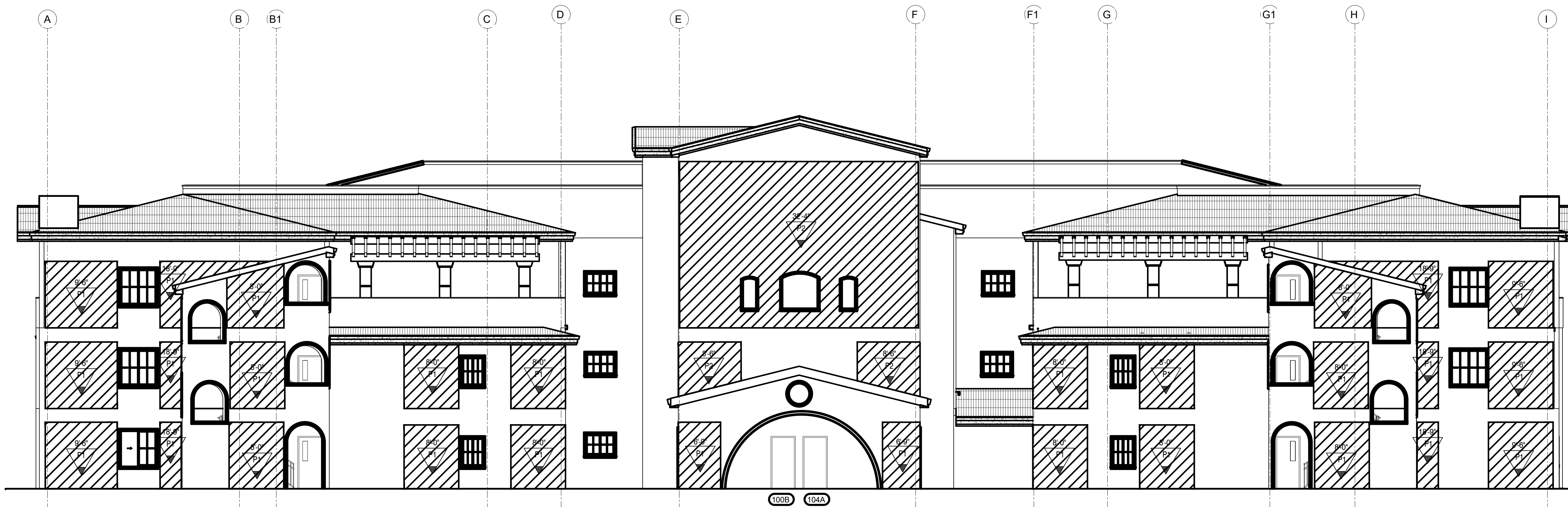
SEE SHEET S1.1 FOR SHEAR WALL AND HOLD-DOWN SCHEDULES



**SHEAR WALL PLAN**

ELEVATION 1 A6.01

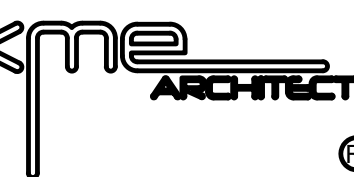
1/8"=1'-0"



**SHEAR WALL PLAN**

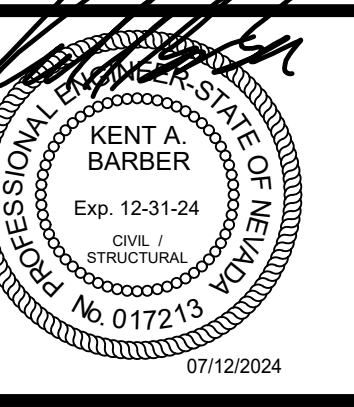
ELEVATION 3 A6.02

1/8"=1'-0"



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Suite #103  
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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
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SHEET TITLE: SHEAR WALL PLAN

**BUILDING PERMIT PACKAGE**  
04-25-2024

REVISIONS		
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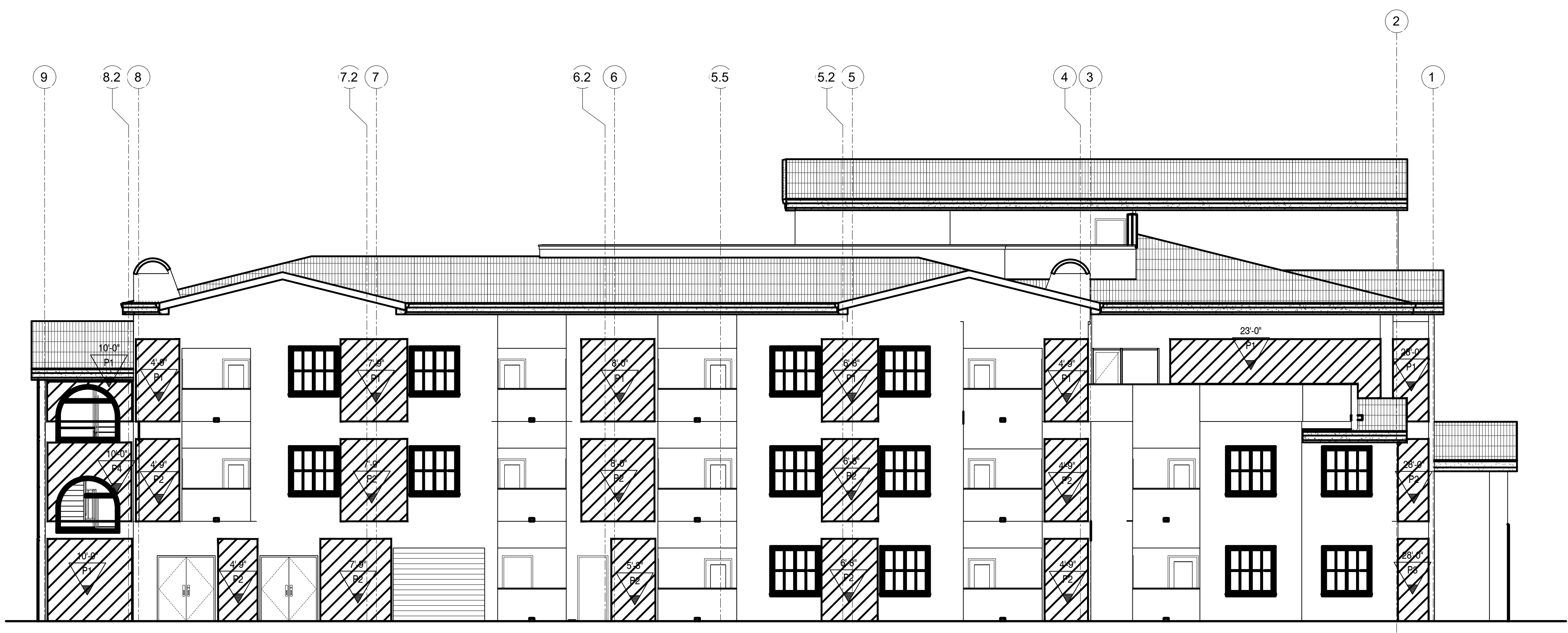
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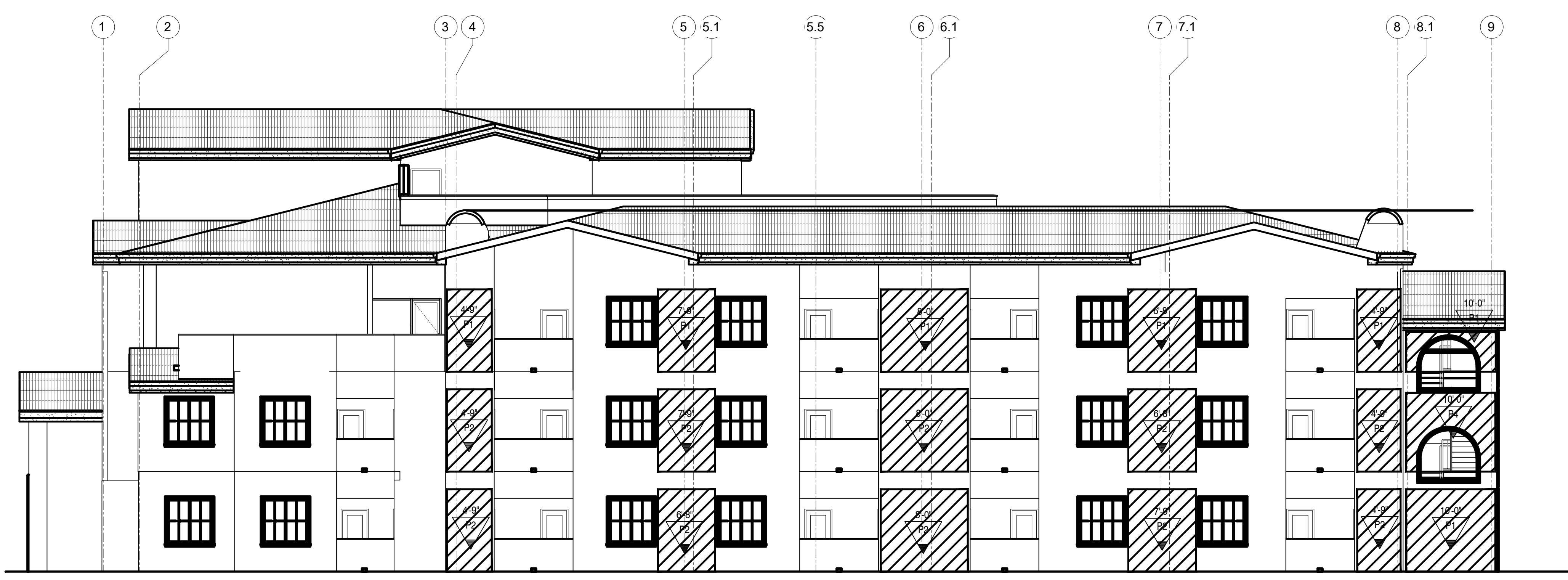
**S5.3**

 SHEAR WALL

SHEET  
ADDED



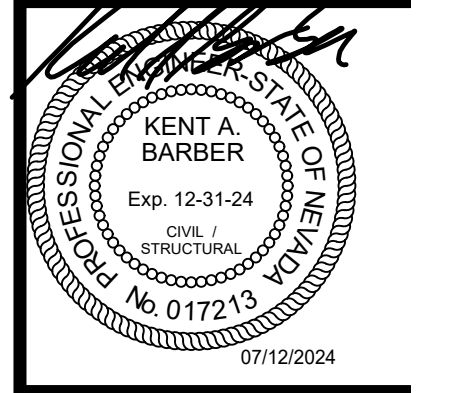
SHEAR WALL PLAN  
ELEVATION 2 A6.01  
1/8"=1'-0"



SHEAR WALL PLAN  
ELEVATION 4 A6.02  
1/8"=1'-0"



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Las Vegas, NV 89113  
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Fax: 702.888.2089  
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PROJECT:  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE: SHEAR WALL PLAN

BUILDING  
PERMIT  
PACKAGE  
04-25-2024

REVISIONS

NO.	DESCRIPTION	DATE
1	PLAN REVIEW	07.12.2024

DRAWN BY: MS  
DATE: 04/25/2024  
JOB NO: 729-086-241  
SCALE: AS INDICATED  
20-027-SCALE DRAWINGS

SHEET  
S5.4

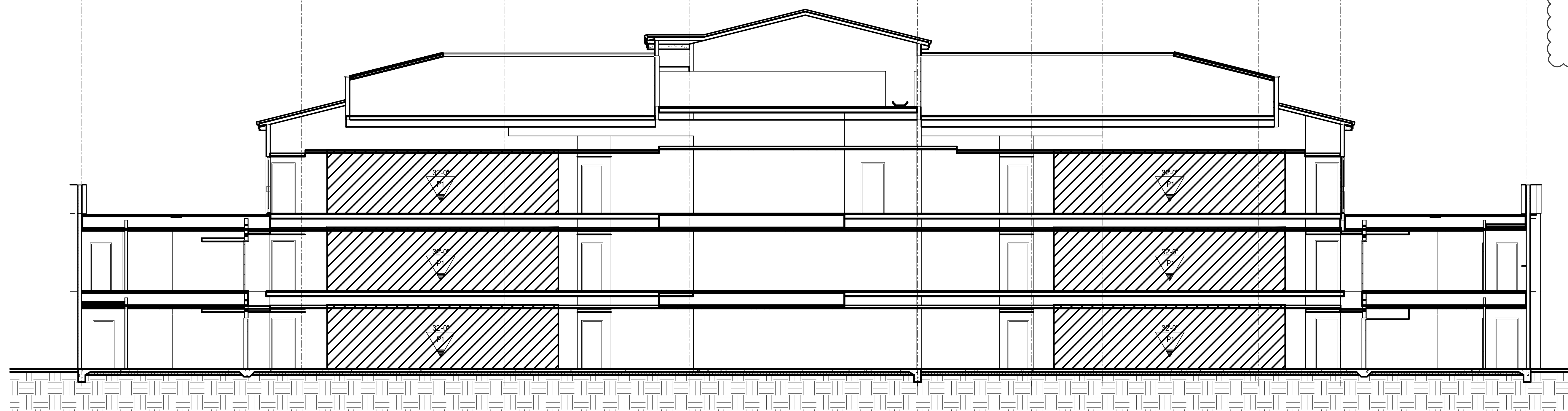


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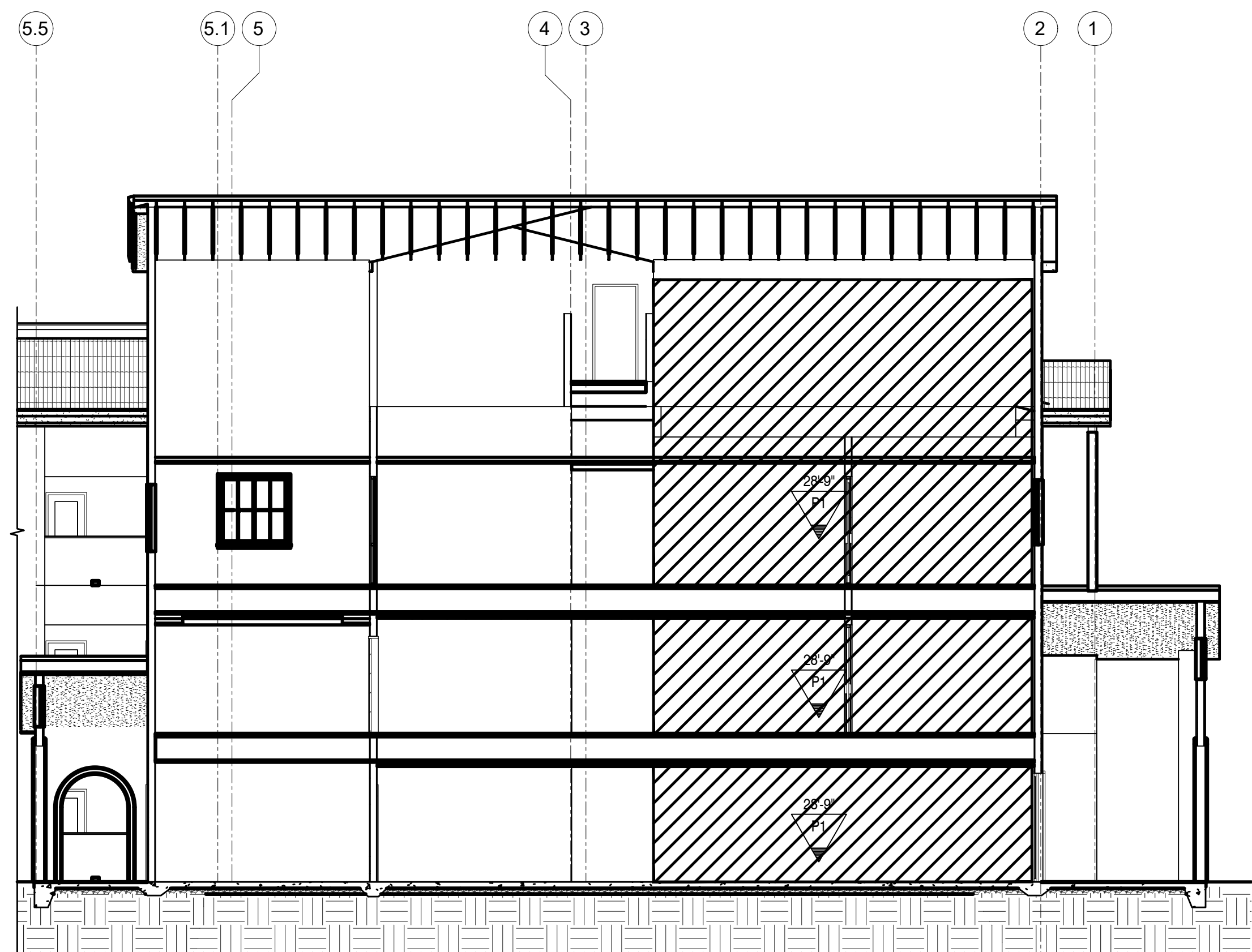
A B B1 C E F F1 G G1 H I

 SHEAR WALL

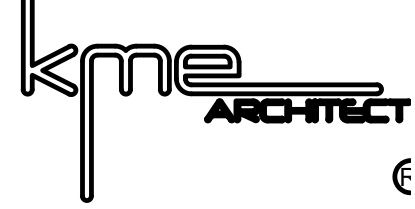
**SHEET  
ADDED**



**SHEAR WALL PLAN**  
ELEVATION 1 A7.01 1/8"=1'-0"



**SHEAR WALL PLAN**  
ELEVATION 4 A7.02 1/8"=1'-0"



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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

PROJECT:

SHEET TITLE: SHEAR WALL PLAN

**BUILDING PERMIT PACKAGE**  
04-25-2024

REVISIONS		
1	PLAN REVIEW	07.12.2024

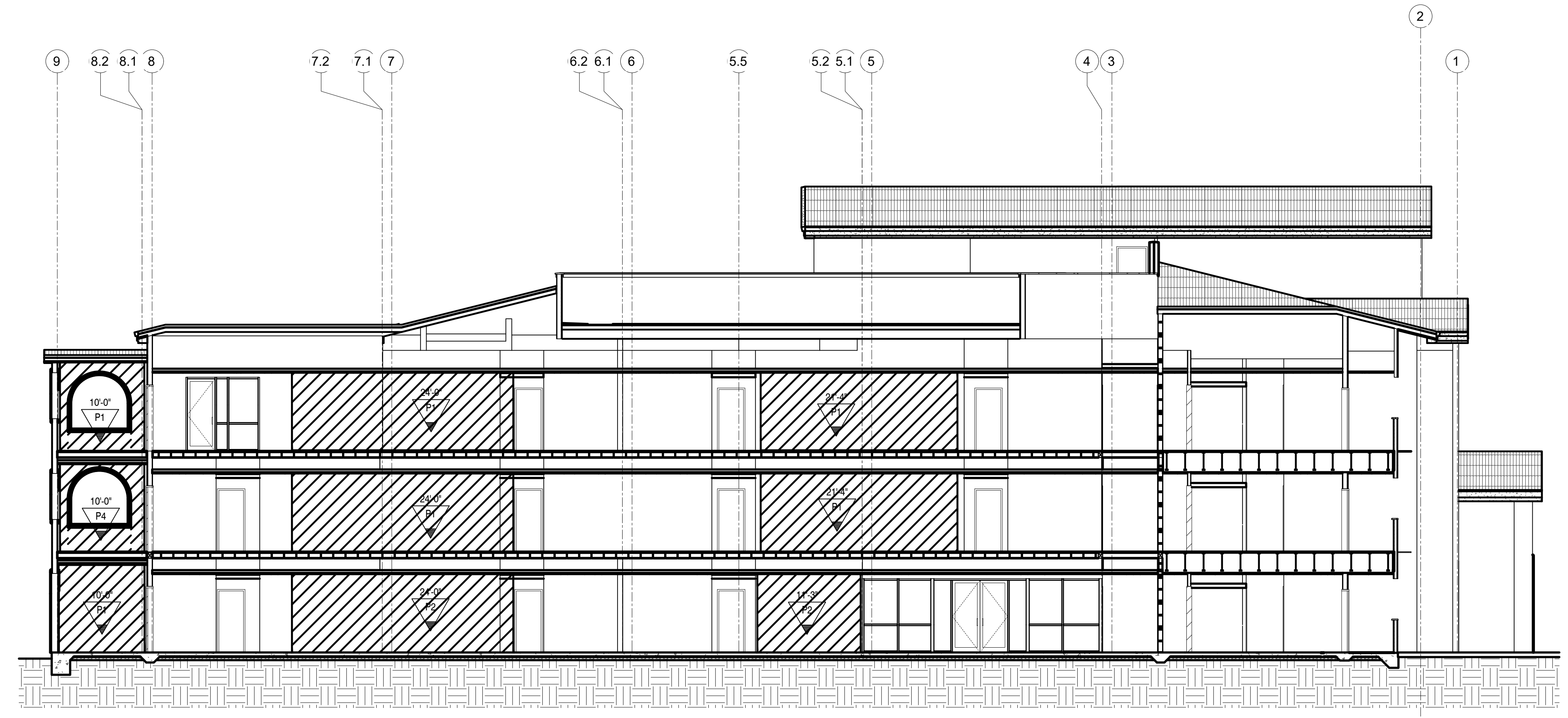
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DATE: 04/25/2024  
JOB NO: 729-086-241  
SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

SHEET

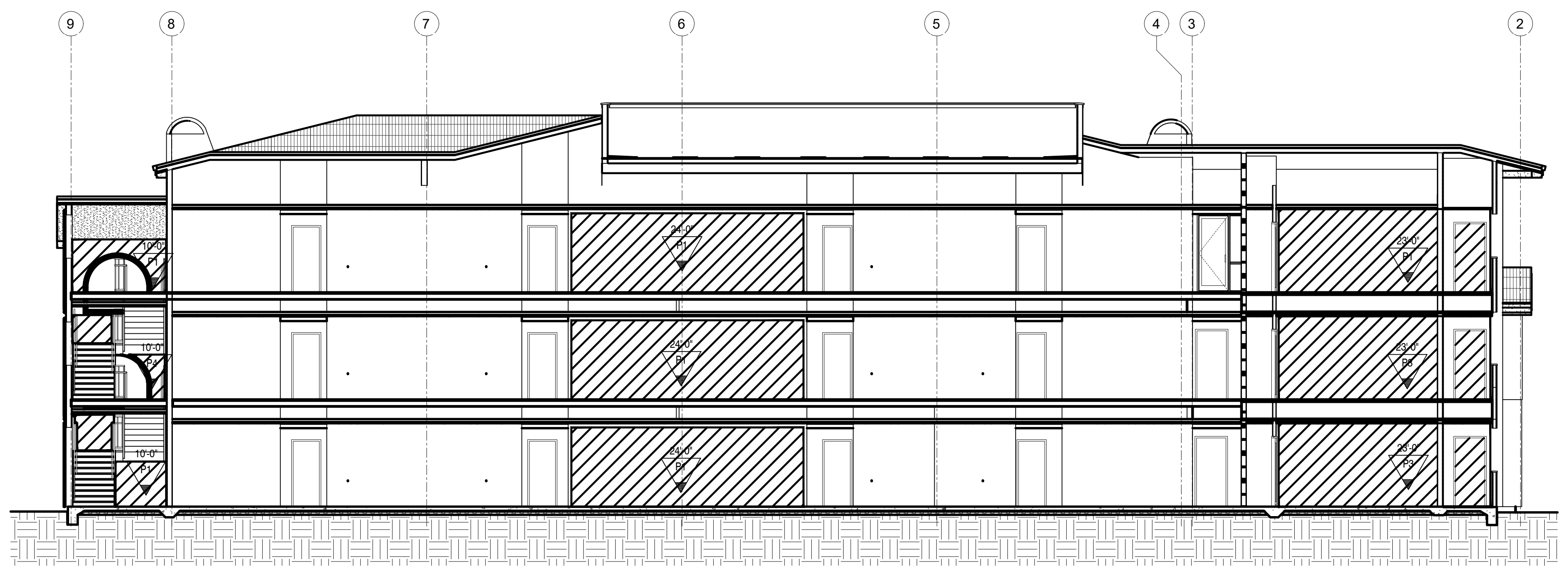
**S5.5**

▨ SHEAR WALL

SHEET ADDED



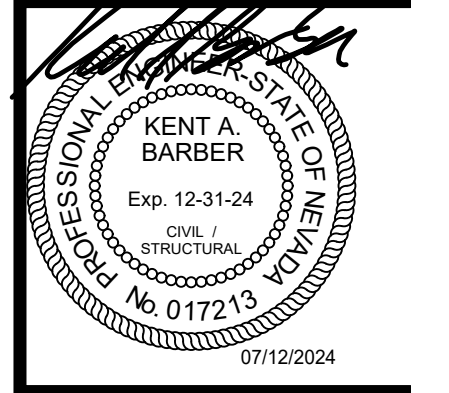
**SHEAR WALL PLAN**  
ELEVATION 3 A7.02 1/8"=1'-0"



**SHEAR WALL PLAN**  
ELEVATION 2 A7.01 1/8"=1'-0"



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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

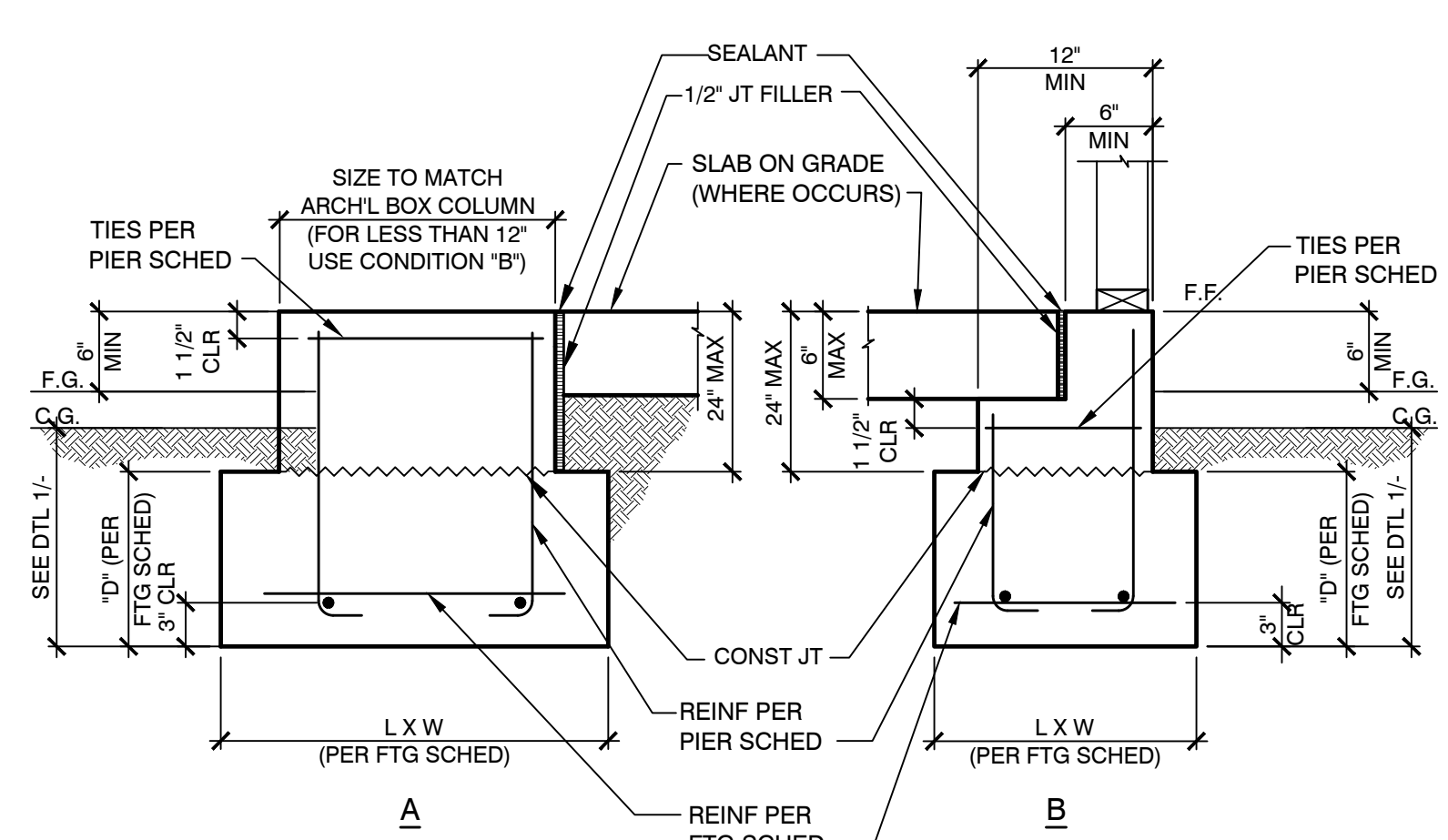
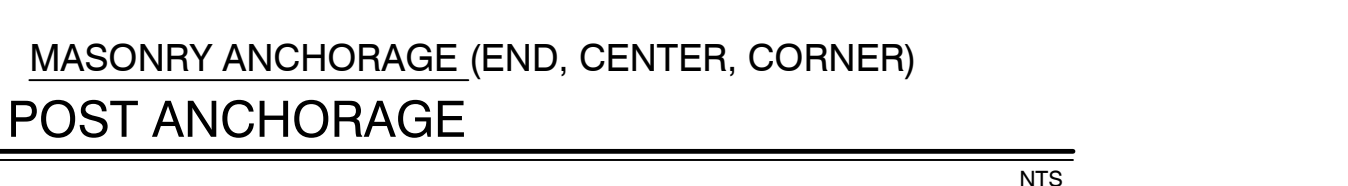
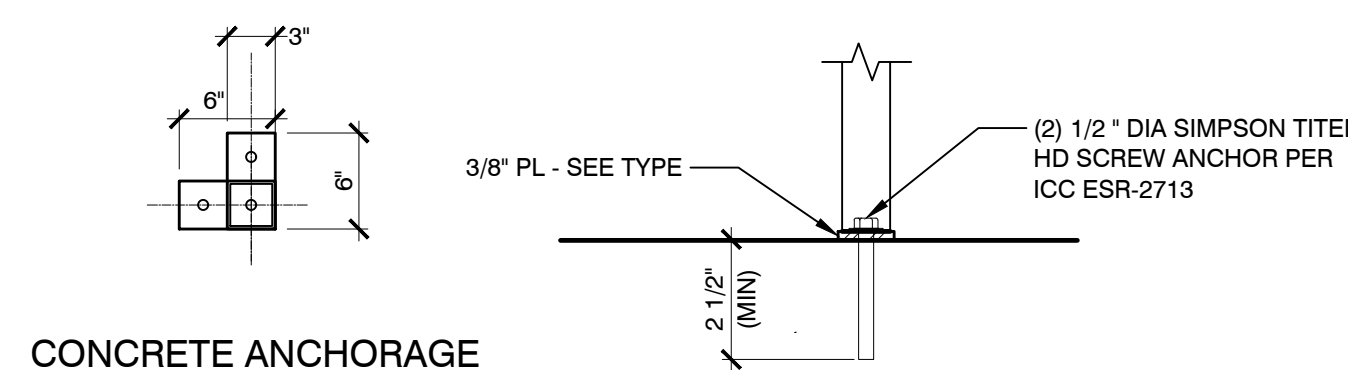
SHEET TITLE: SHEAR WALL PLAN

**BUILDING PERMIT PACKAGE**  
04-25-2024

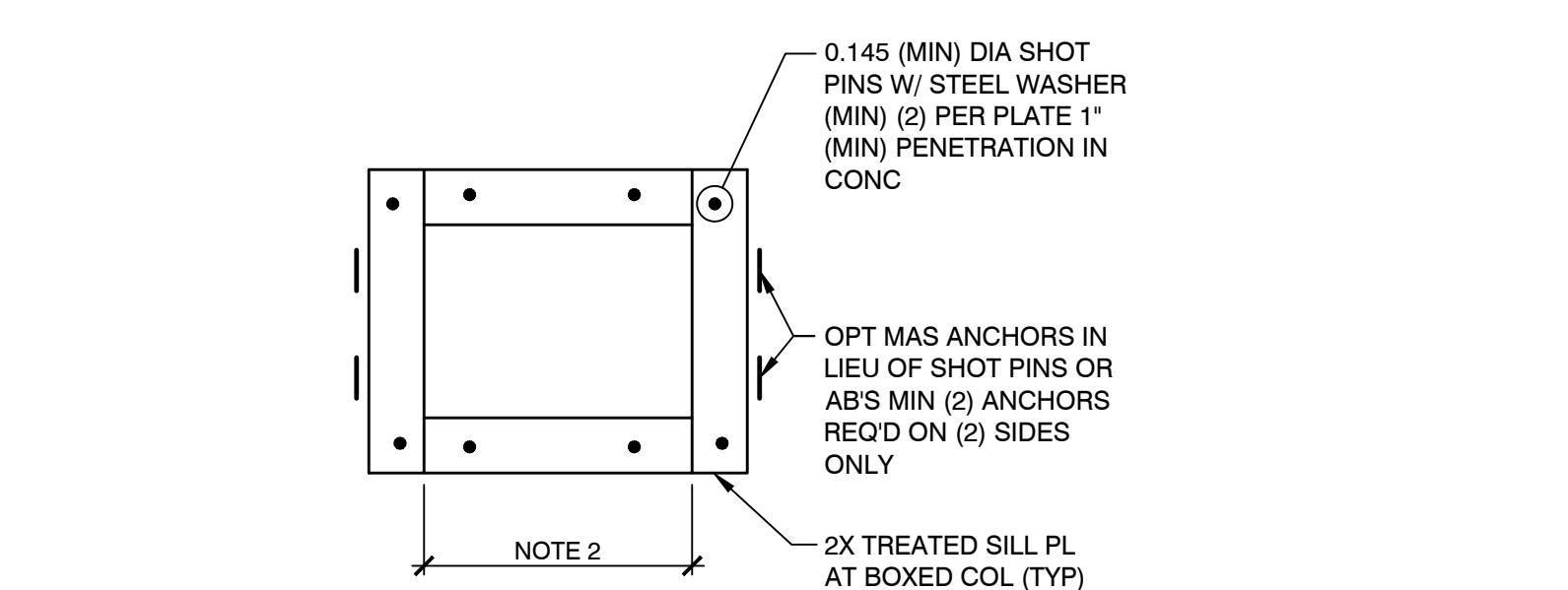
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NO.	DESCRIPTION	DATE
1	PLAN REVIEW	07.12.2024

DRAWN BY: MS  
DATE: 04/25/2024  
JOB NO: 729-086-241  
SCALE: AS INDICATED

SHEET  
**S5.6**



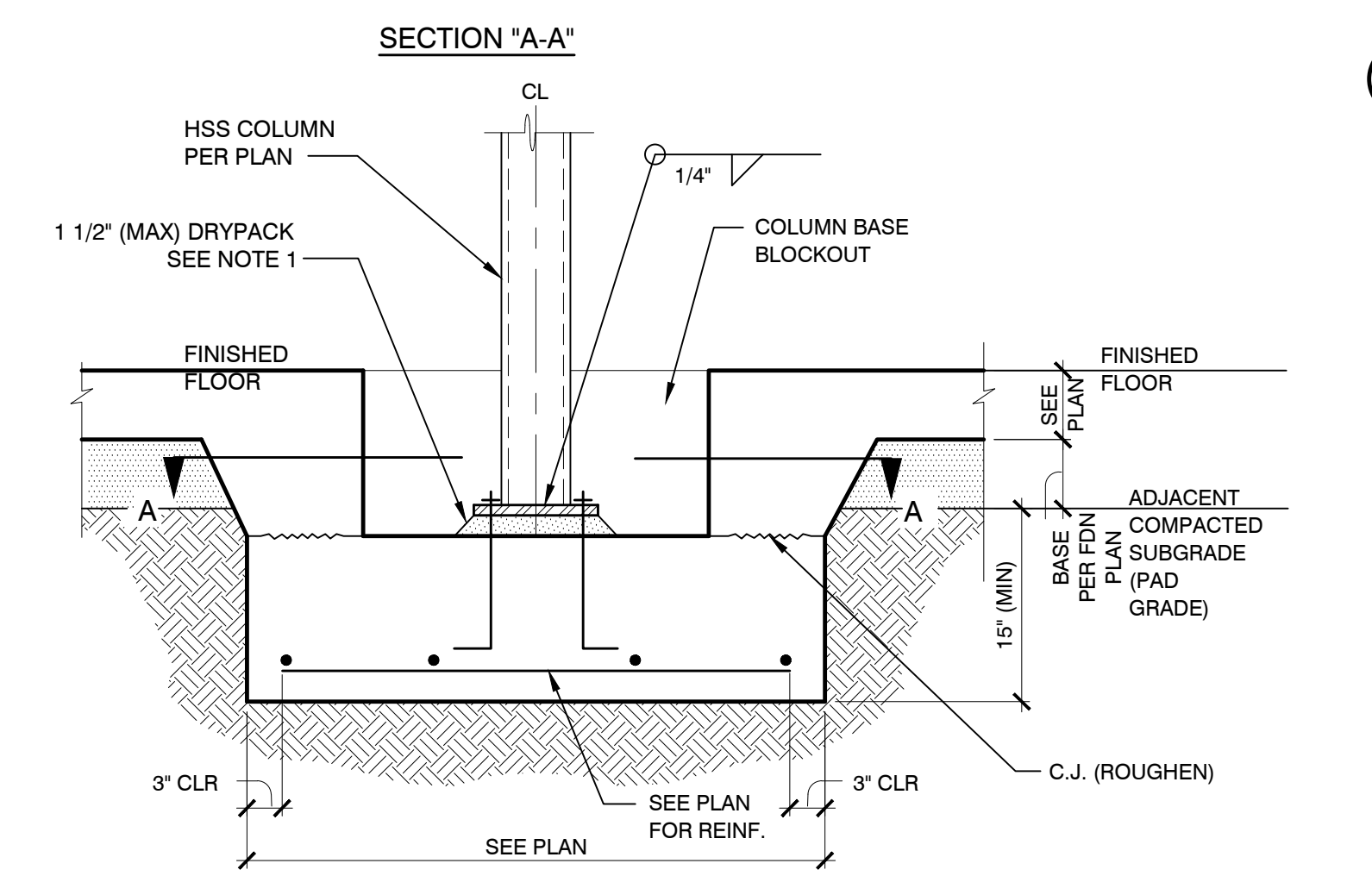
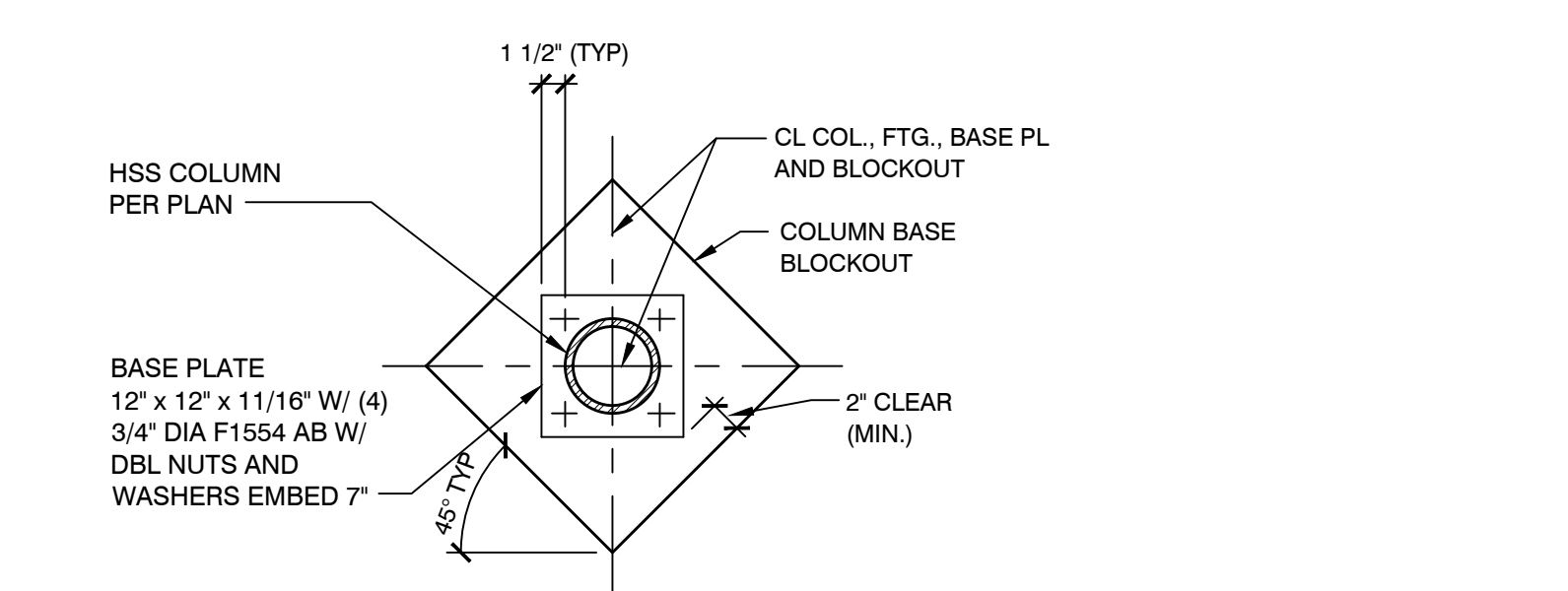
11 CONCRETE PIER AND FOOTING NTS



**NOTES:**

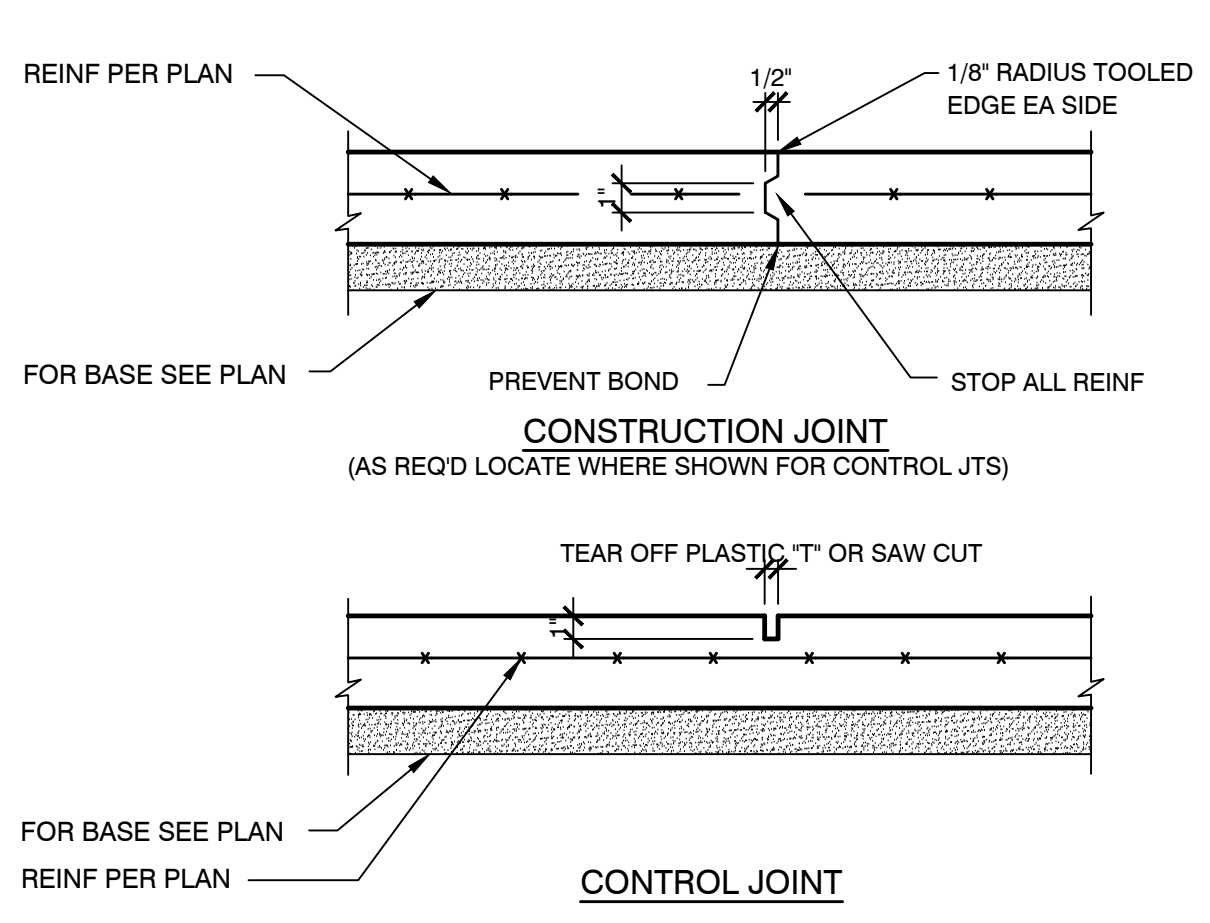
- THIS DETAIL IS FOR BOX COL SILL PL (SEE FND PLAN FOR LOCATIONS)
- PROVIDE MAS ANCHORS AT PL LENGTHS LESS THAN 8"

12 BOX COLUMN SILL PLATE NTS

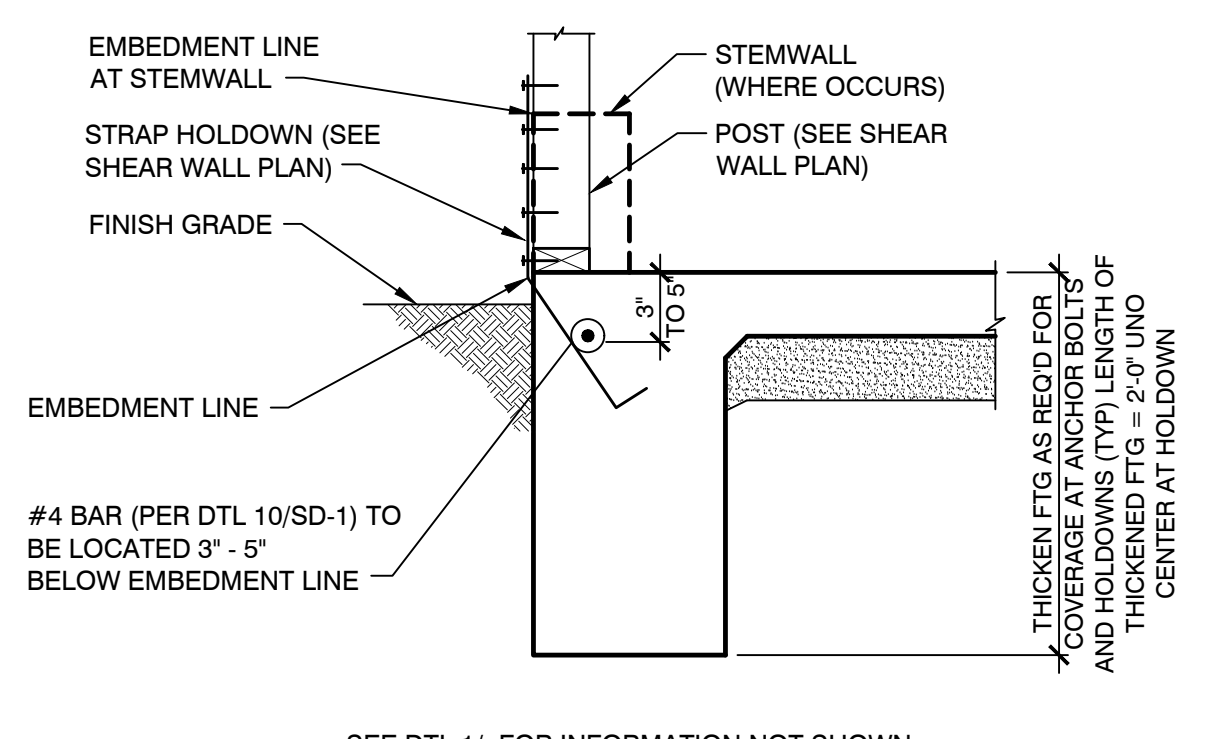


**NOTE 1:** COMPRESSION STRENGTH OF GROUT SHALL BE EQUAL TO OR GREATER THAN THE COMPRESSION STRENGTH OF CONCRETE

14 INTERIOR CONTINUOUS FTG NTS

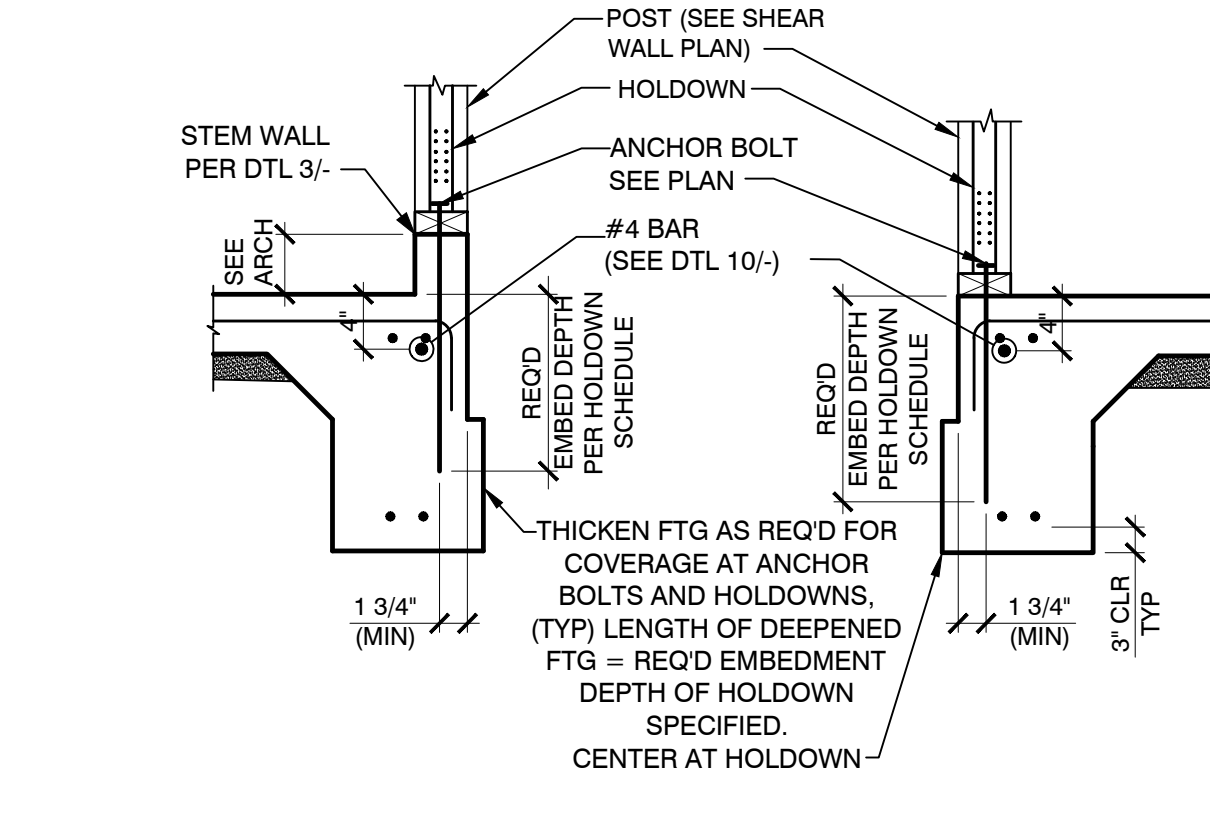


6 TYP SLAB JOINTS NTS



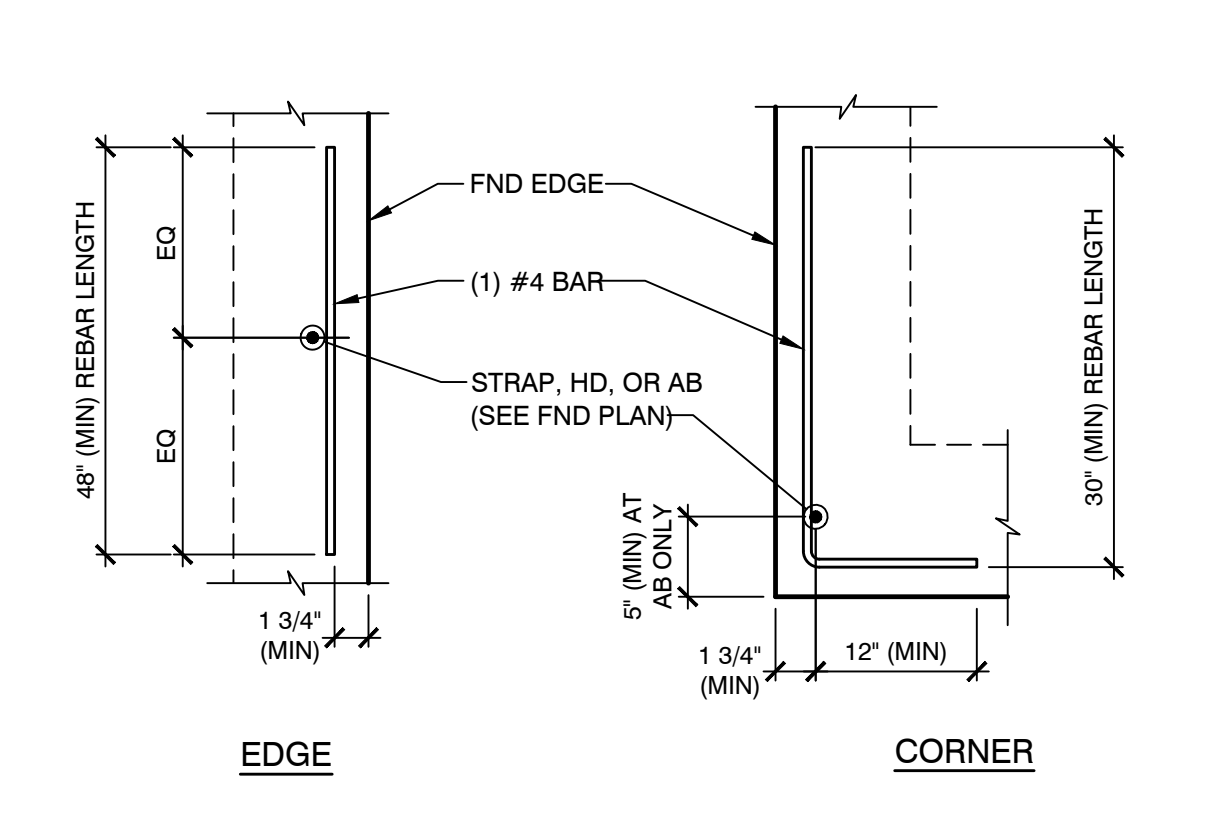
SEE DTL 1/- FOR INFORMATION NOT SHOWN

8 STRAP HOLDDOWN NTS

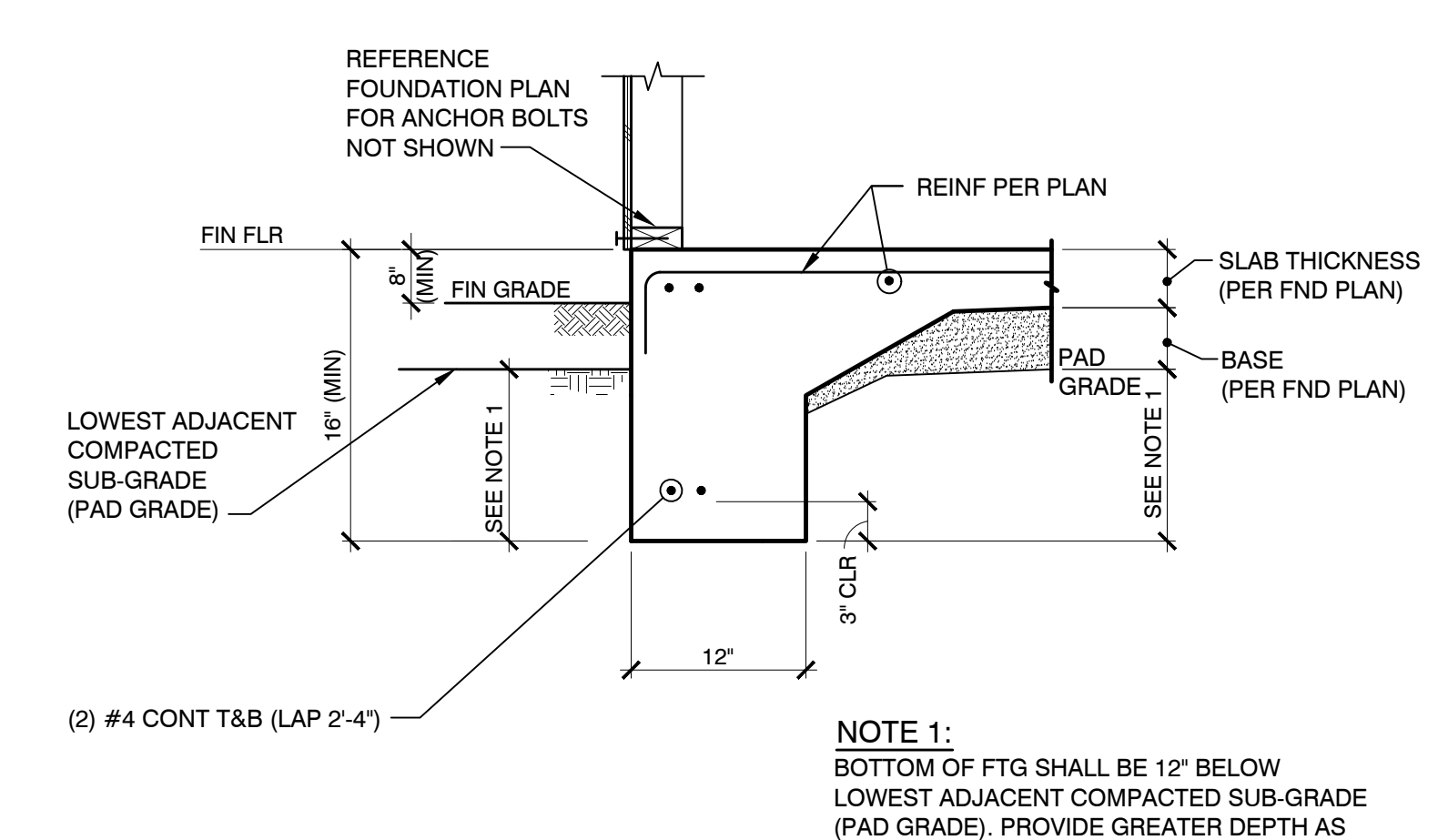


SEE DTL 1/- FOR INFORMATION NOT SHOWN

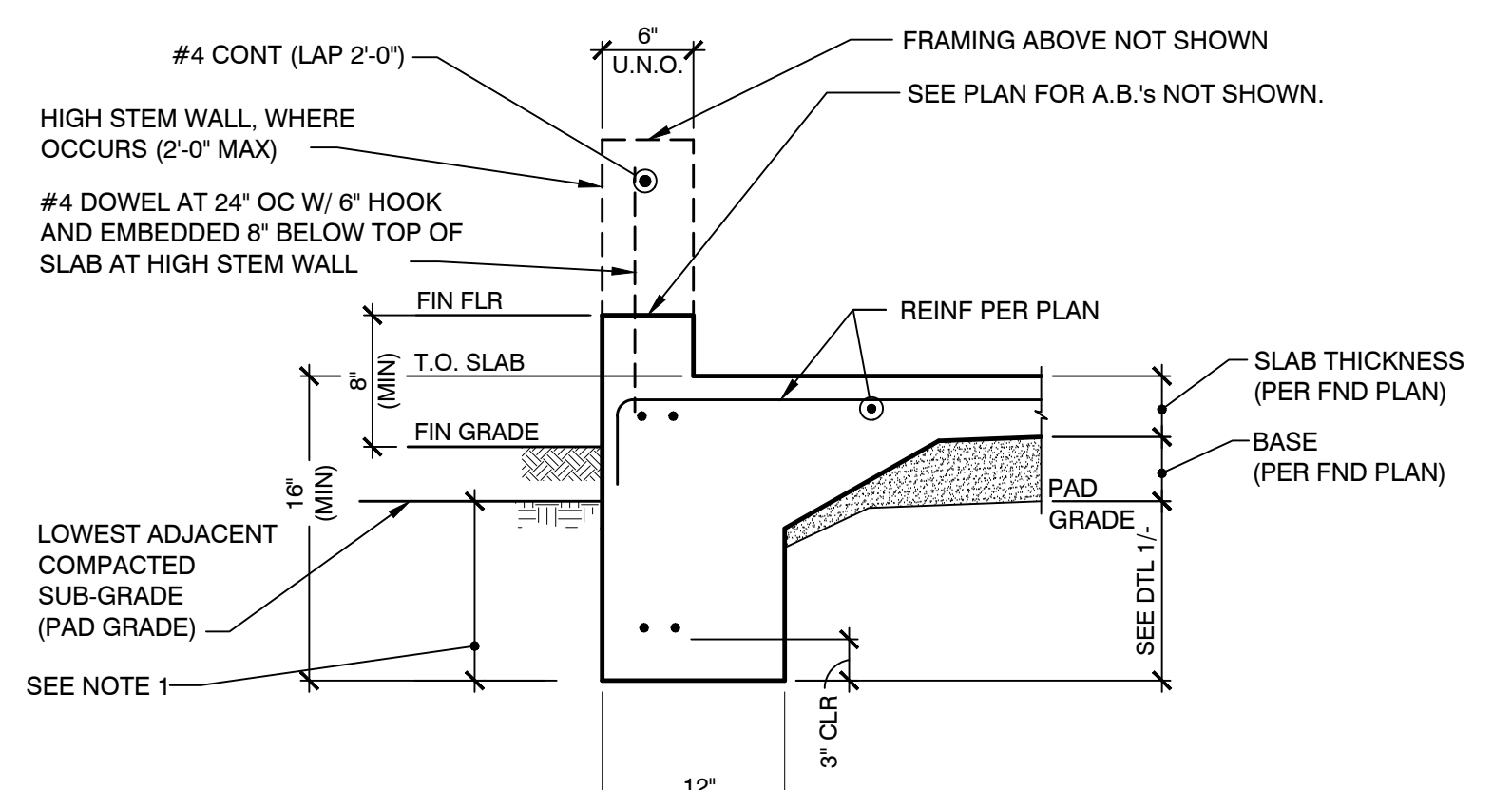
9 HOLDOWN W/ ANCHOR BOLT (TYPICAL) NTS



10 REINFORCING AT HOLDOWNS NTS

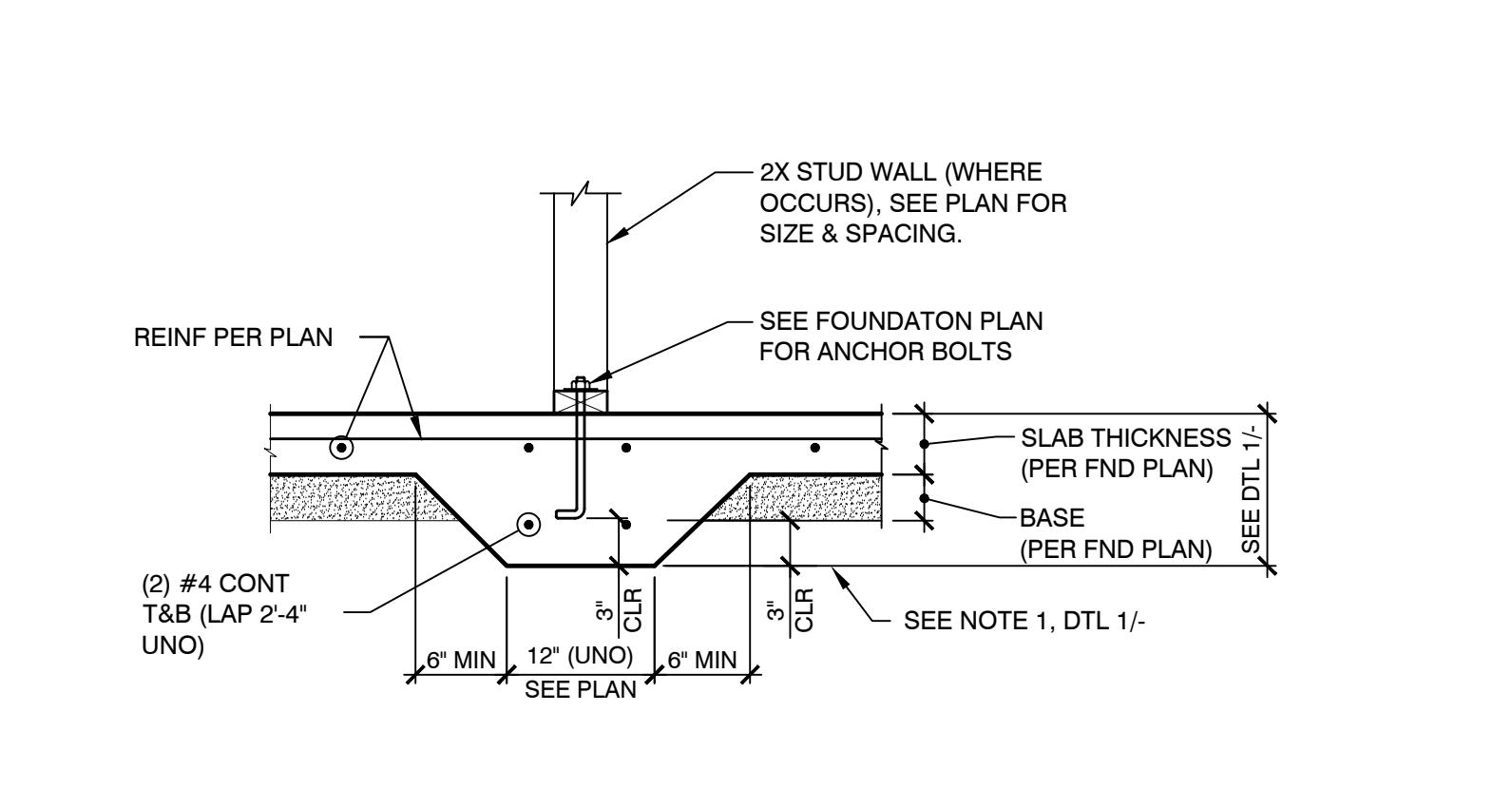


1 EDGE OF FOUNDATION NTS

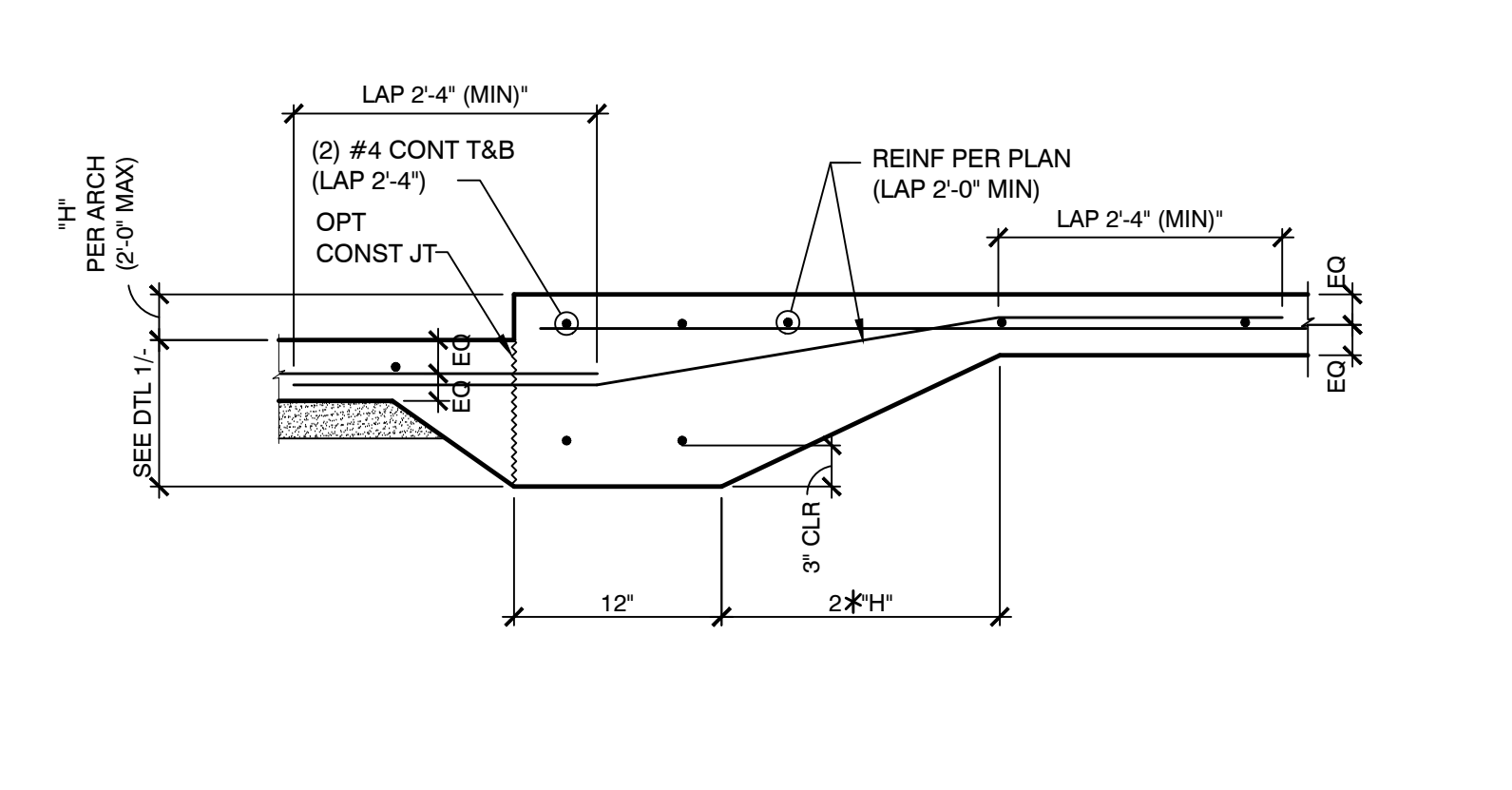


SEE DTL 1/- FOR INFO NOT SHOWN

3 EDGE OF FOUNDATION (CURB) NTS



4 STEP IN SLAB NTS



10 REINFORCING AT HOLDOWNS NTS

5 STEP IN SLAB NTS

**KME ARCHITECT**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

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Fax: 702.888.2089  
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Exp. 12-31-24  
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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave., Las Vegas, NV 89106

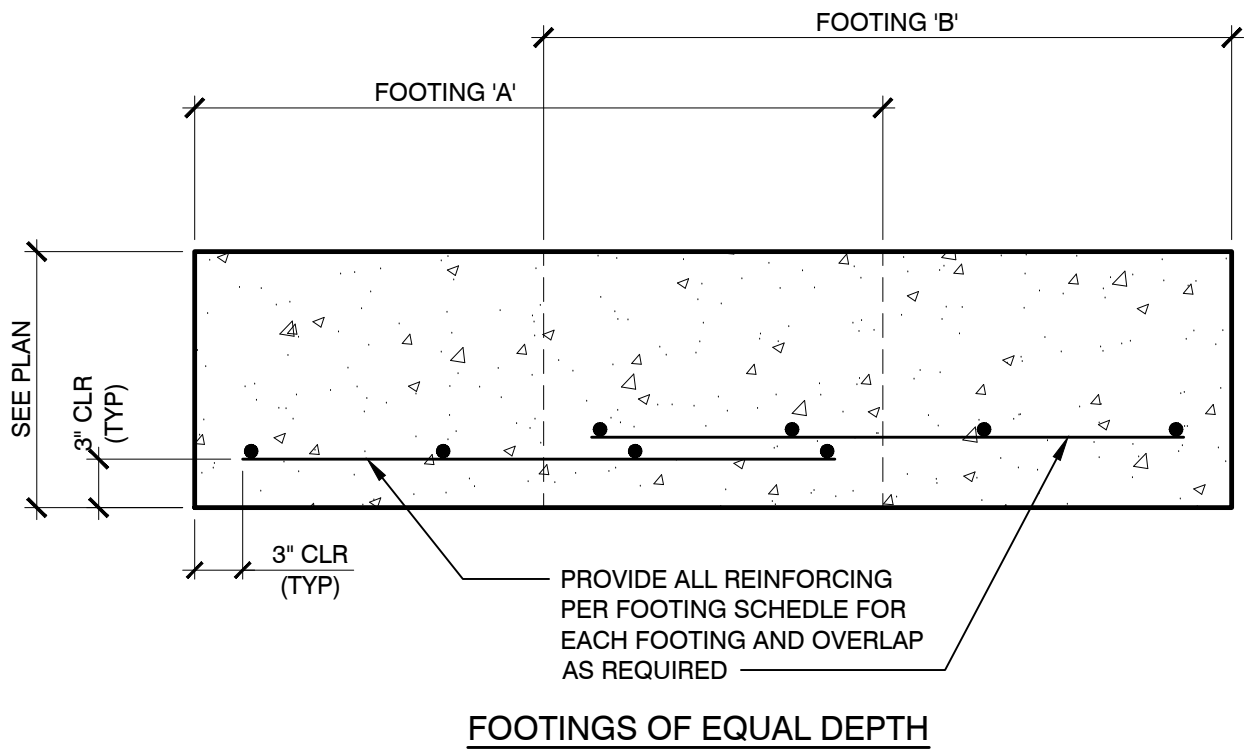
**SHEET TITLE:** STRUCTURAL DETAILS

**BUILDING PERMIT PACKAGE**  
04-25-2024

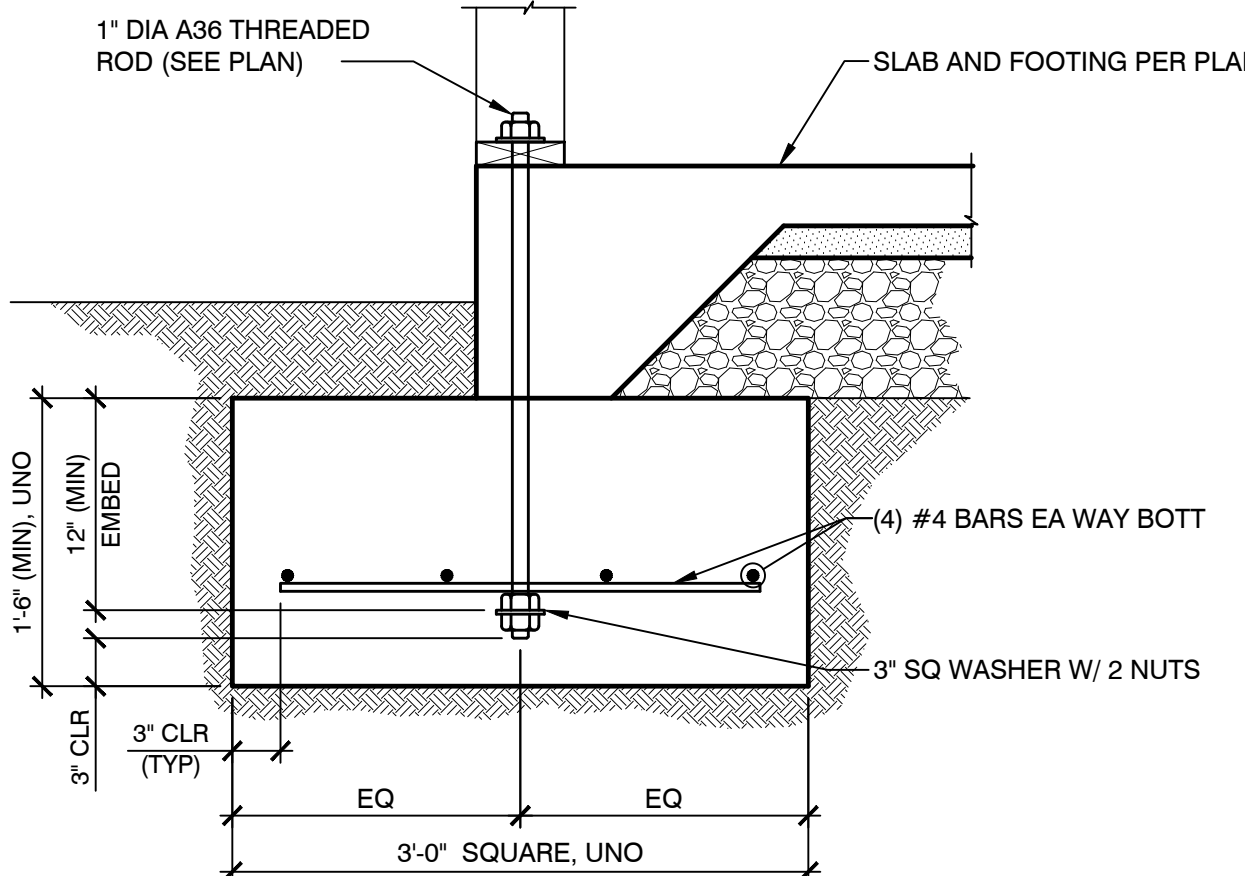
REVISIONS		
1	PLAN REVIEW	07.12.2024

DRAWN BY: MS  
DATE: 04/25/2024  
JOB NO: 729-086-241  
SCALE: AS INDICATED  
SHEET

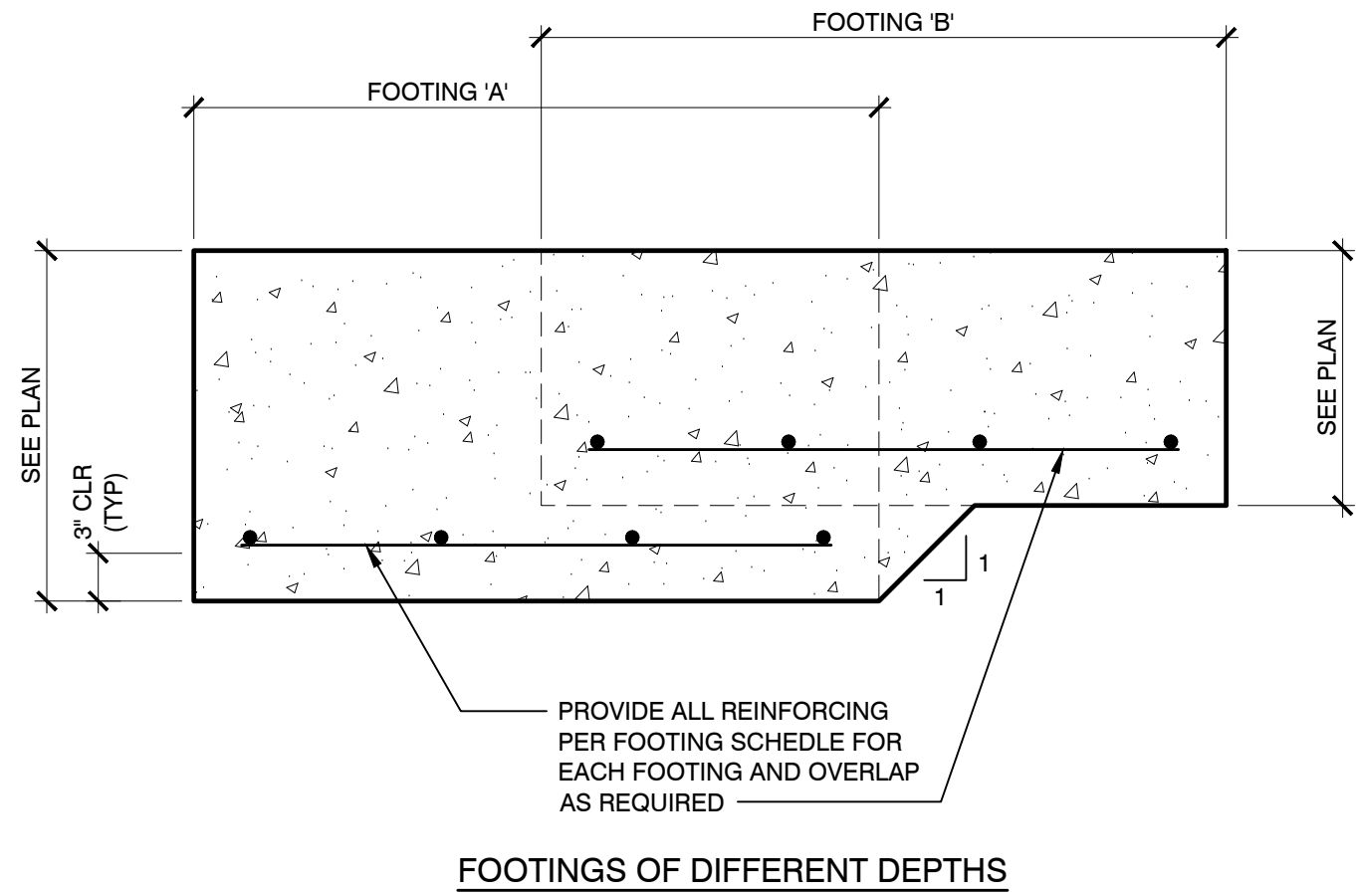
**SD-1**



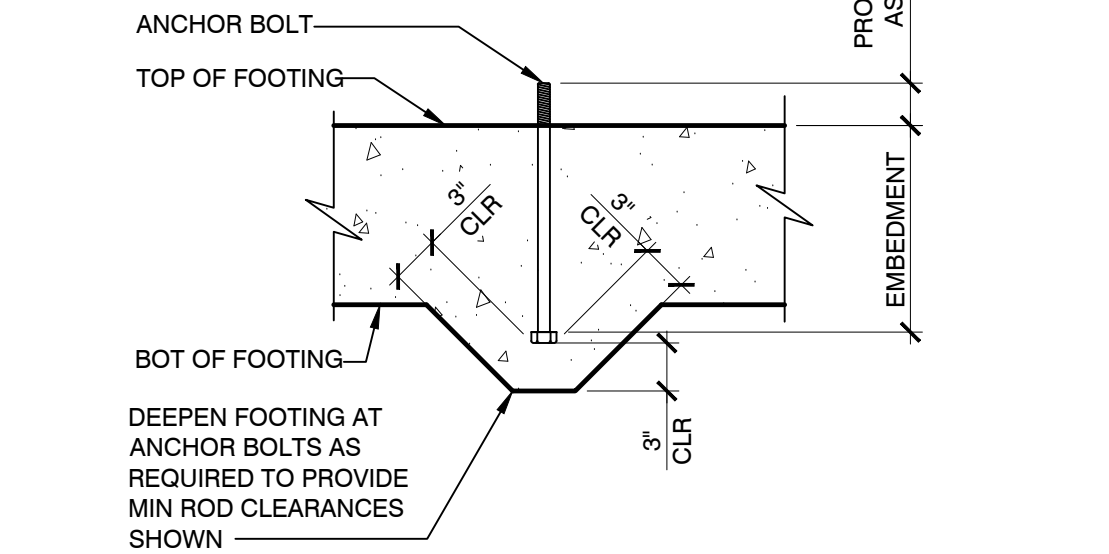
7 TYPICAL STEPPED FOOTING DETAIL  
NTS



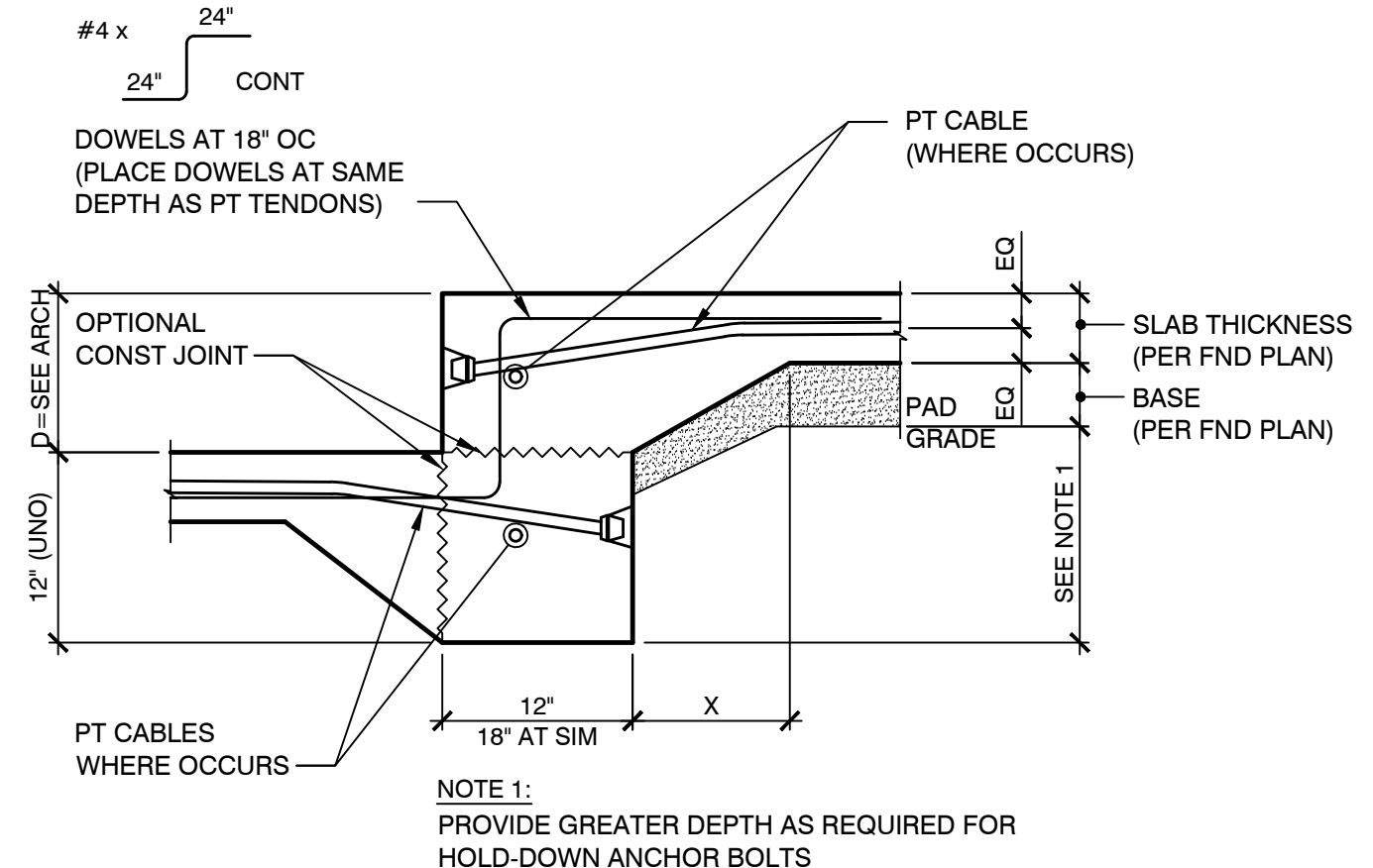
2 HOLDDOWN FOOTING  
SCALE:



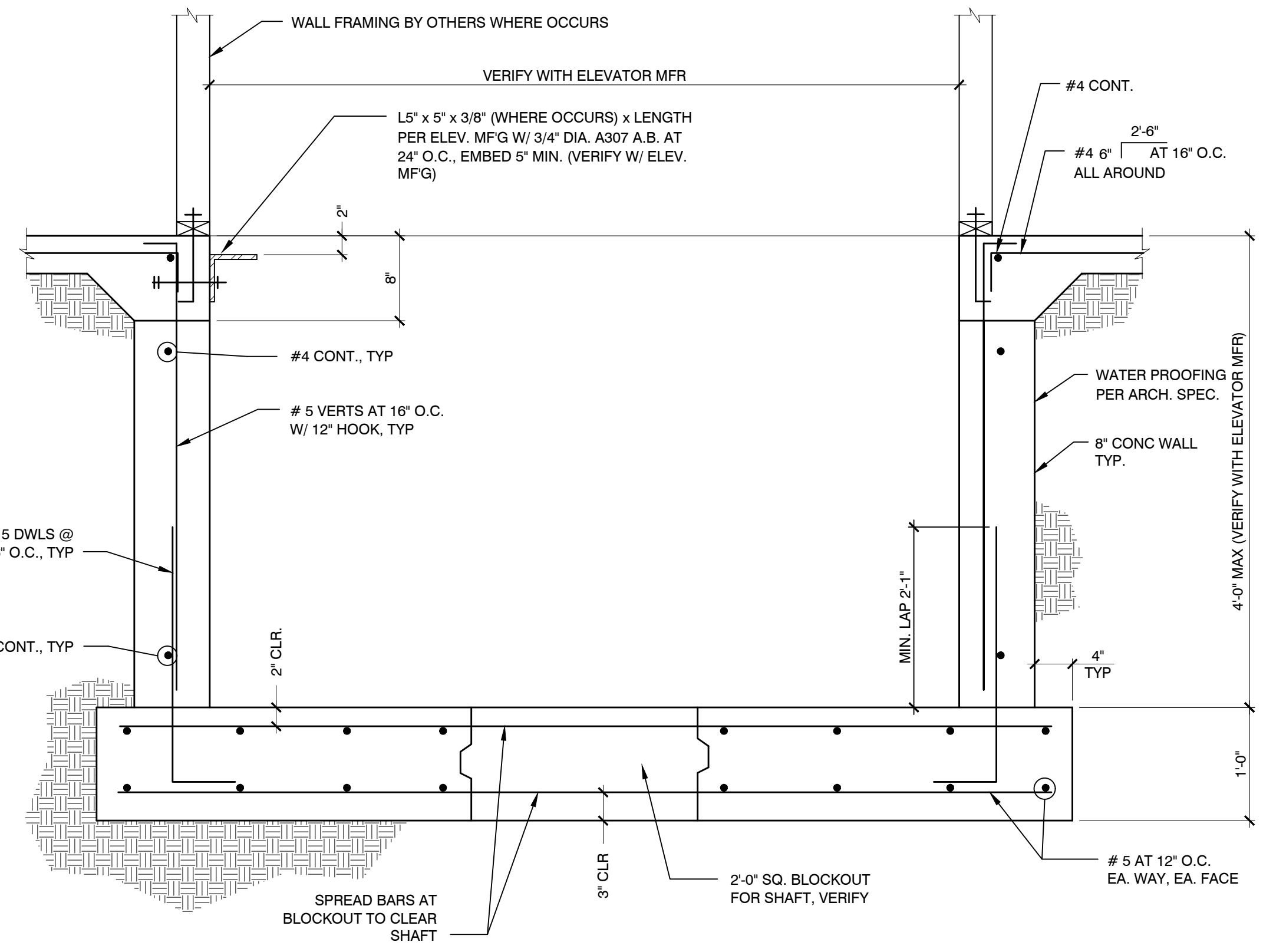
10 OVERLAPPING SPREAD FOOTING DETAIL  
NTS



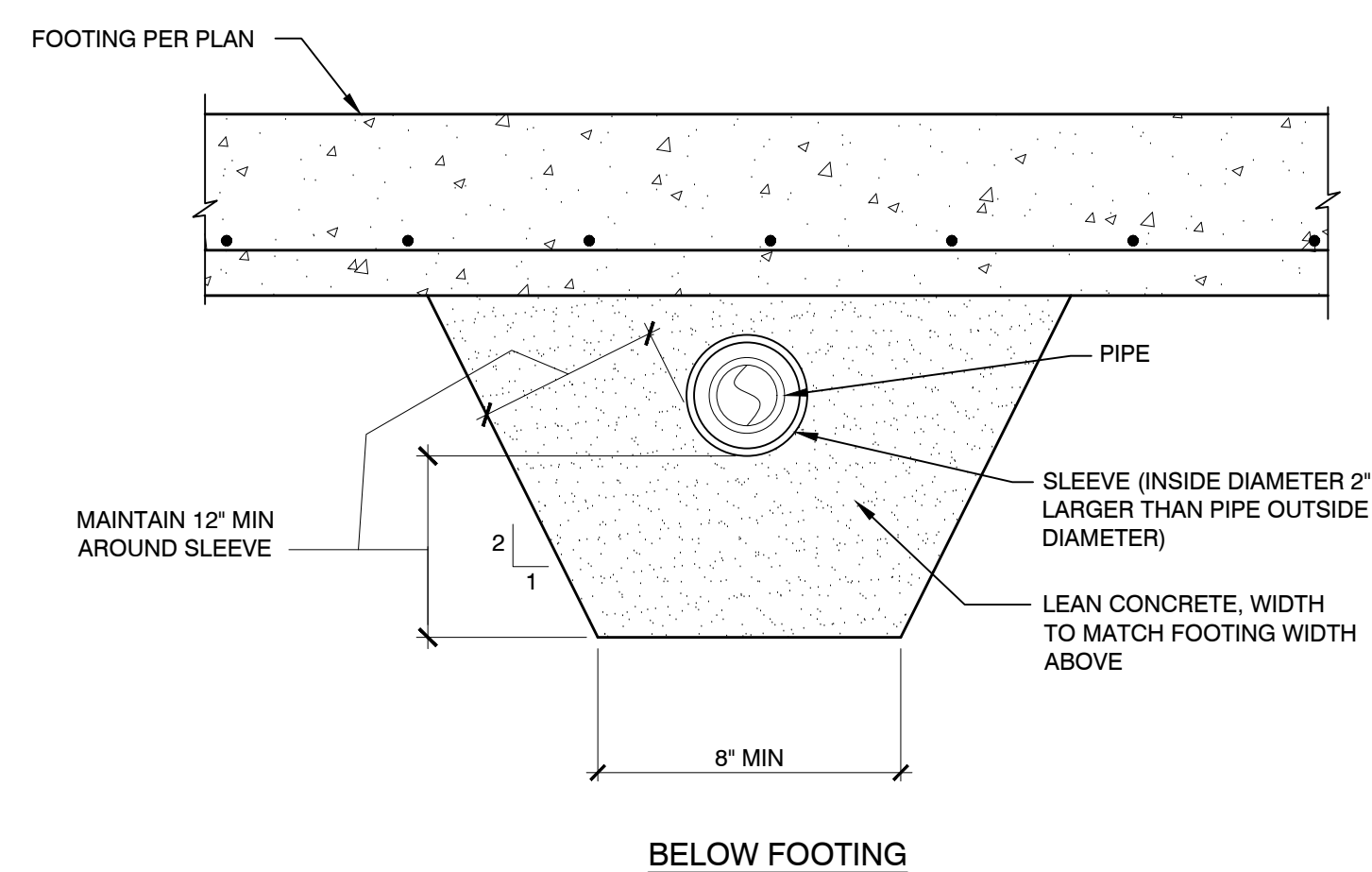
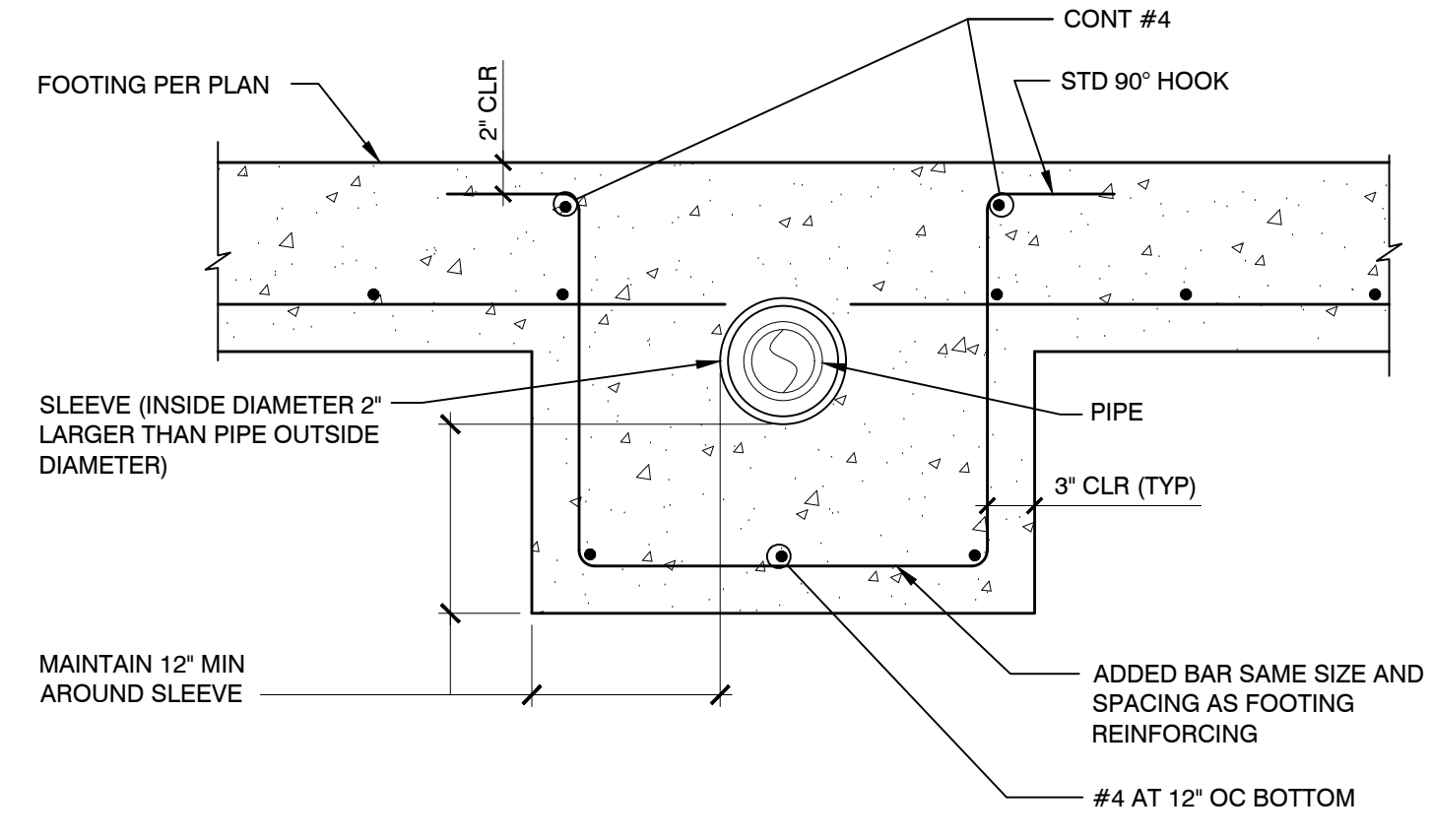
8 ANCHOR BOLT EMBEDMENT DETAIL  
NTS



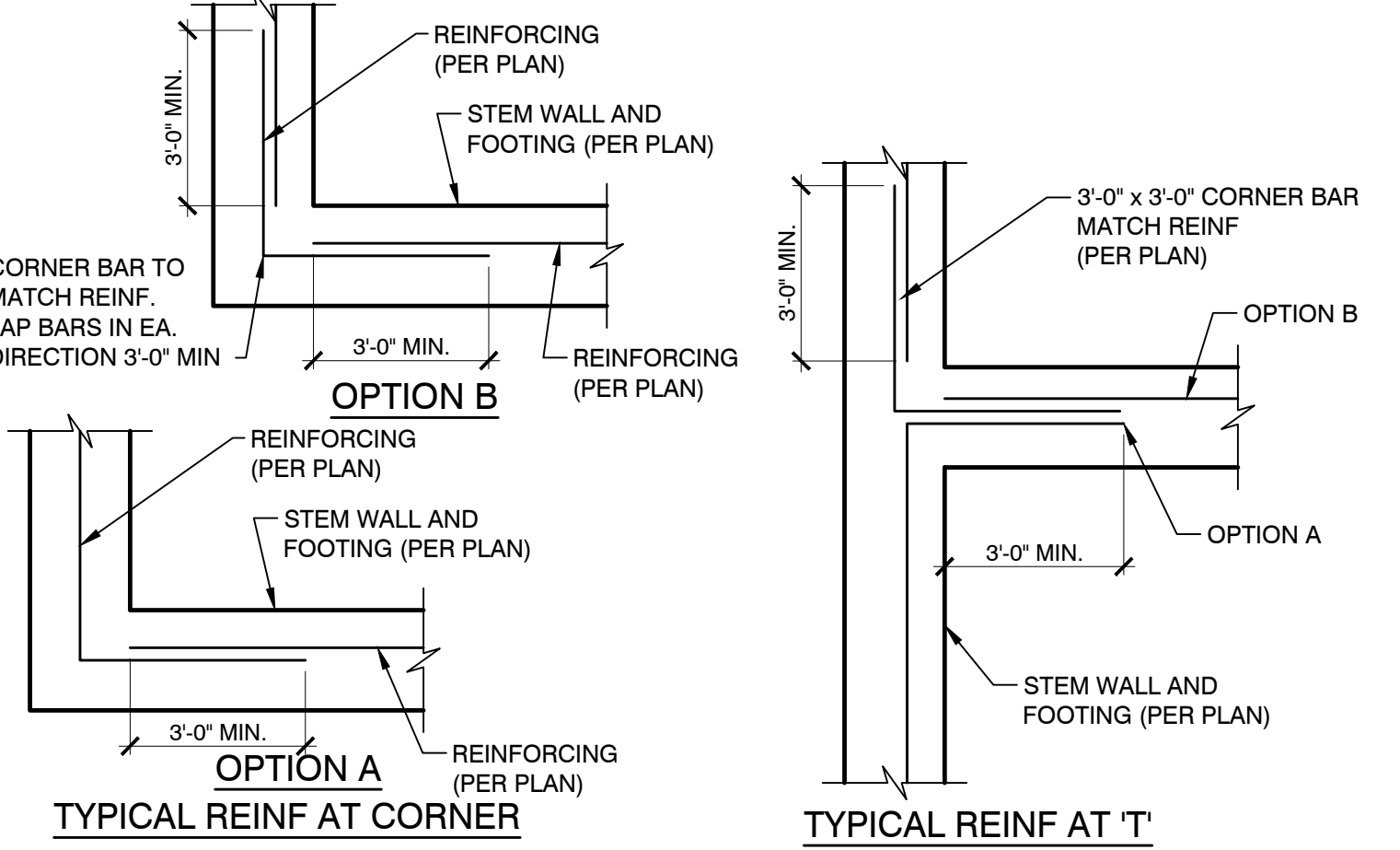
3 STEP IN FOUNDATION ("D" > 15")  
NTS



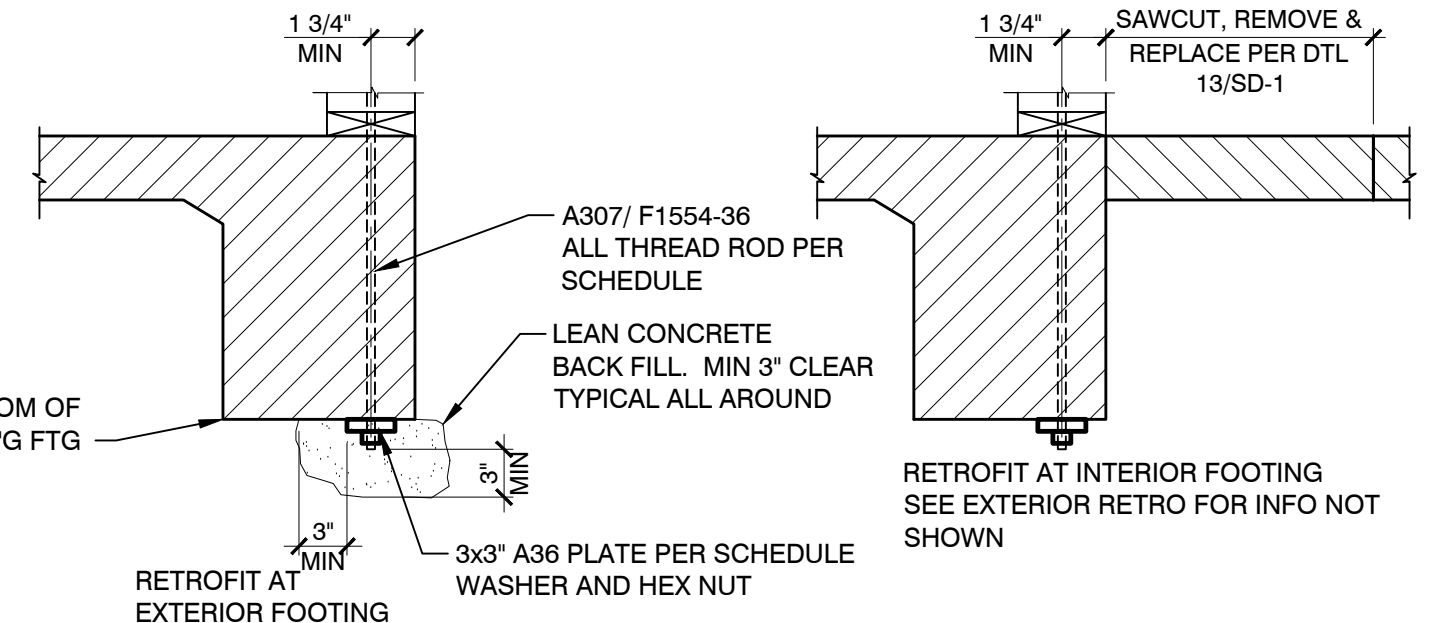
11 ELEVATOR PIT  
NTS



9 PIPE SLEEVE DETAIL  
NTS



5 CONCRETE WALL/FOOTING REINFORCING  
NTS



HOLDOWN <sup>(1)</sup>	ANCHOR ROD SIZE	BEARING PLATE
LSTD8, STDH10, STDH14, HTTS, HDU2, HDU4, HDU5	5/8" A307 THREADED ROD	3 X 3 X 1/2"
HDU8	7/8" A307 THREADED ROD	3 X 3 X 3/4"

1. PROVIDE HDU4 FOR RETROFIT AT LSTD8 & STDH10. PROVIDE HDU5 FOR RETROFIT AT STDH14

6 RETROFIT AT EXTERIOR FOOTING  
NTS

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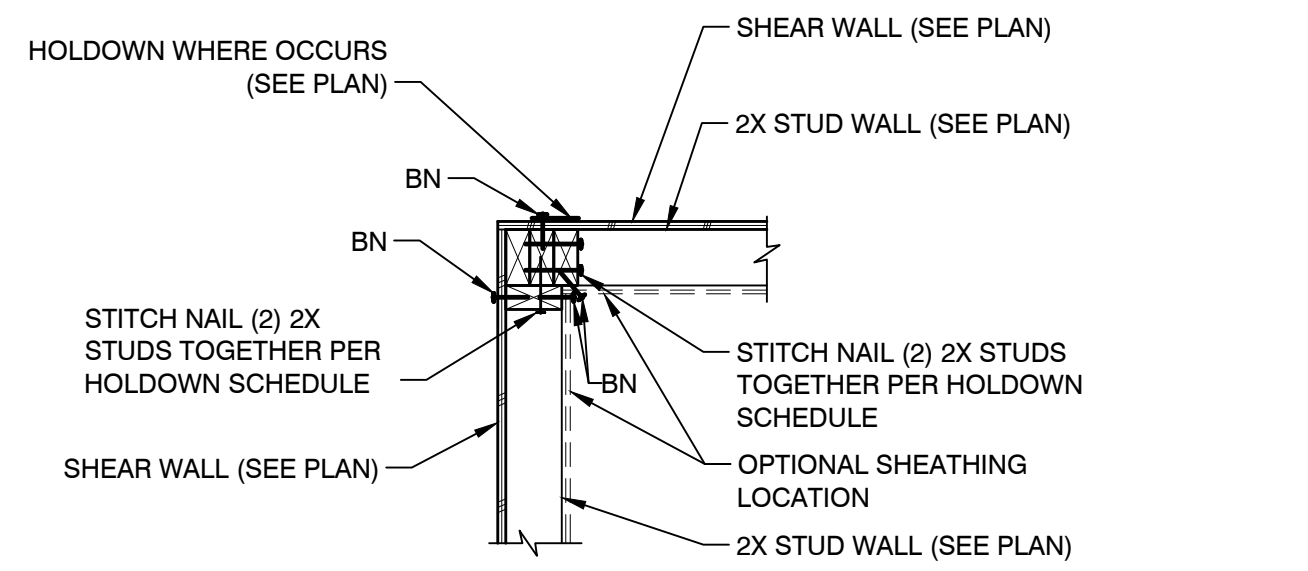
PROJECT: SNRHA BENNETT PLAZA PHASE II  
SHEET TITLE: STRUCTURAL DETAILS

**BUILDING PERMIT PACKAGE**  
04-25-2024

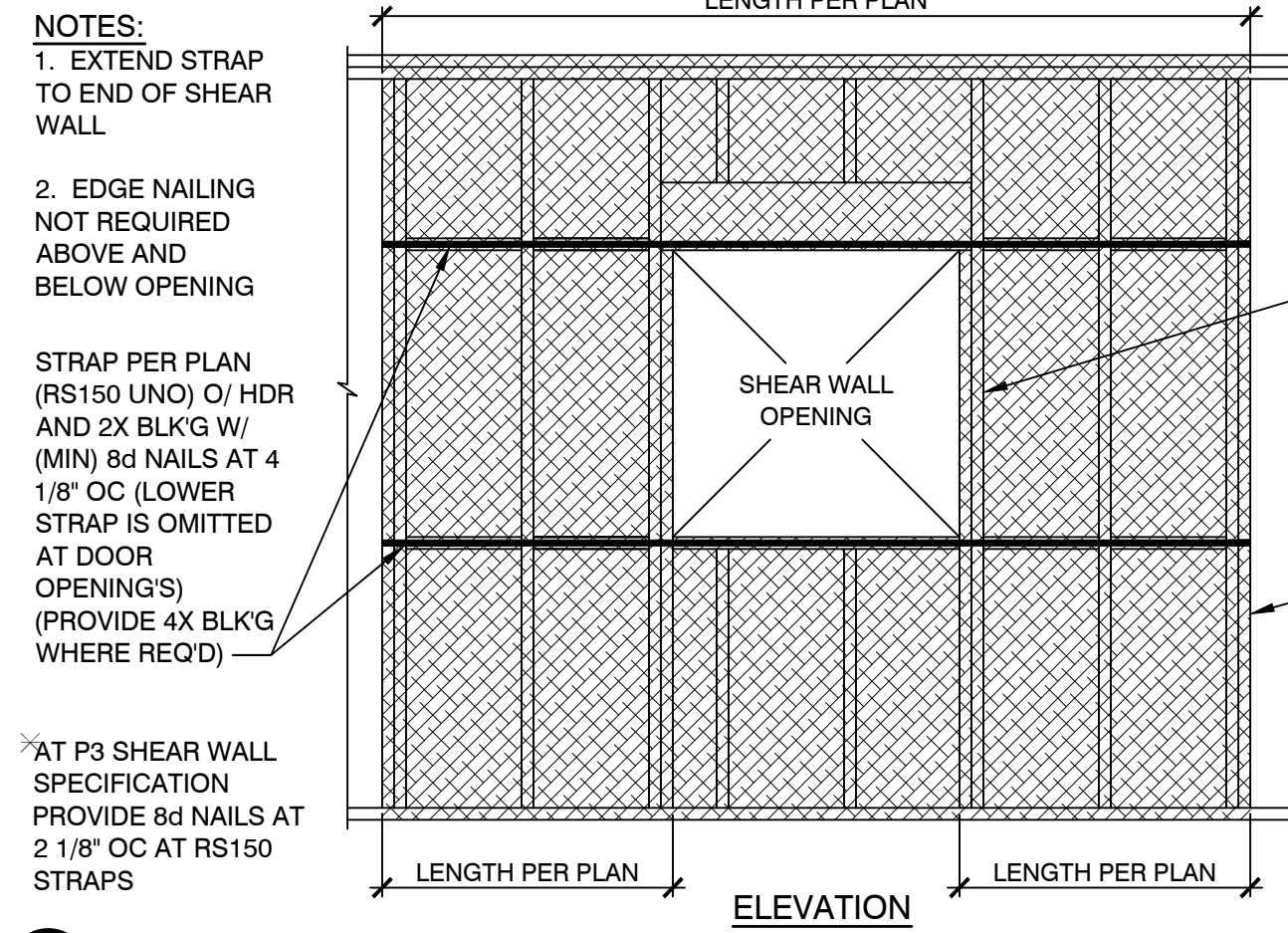
REVISIONS		
1	PLAN REVIEW	07.12.2024

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DATE: 04/25/2024  
JOB NO: 729-086-241  
SCALE: AS INDICATED

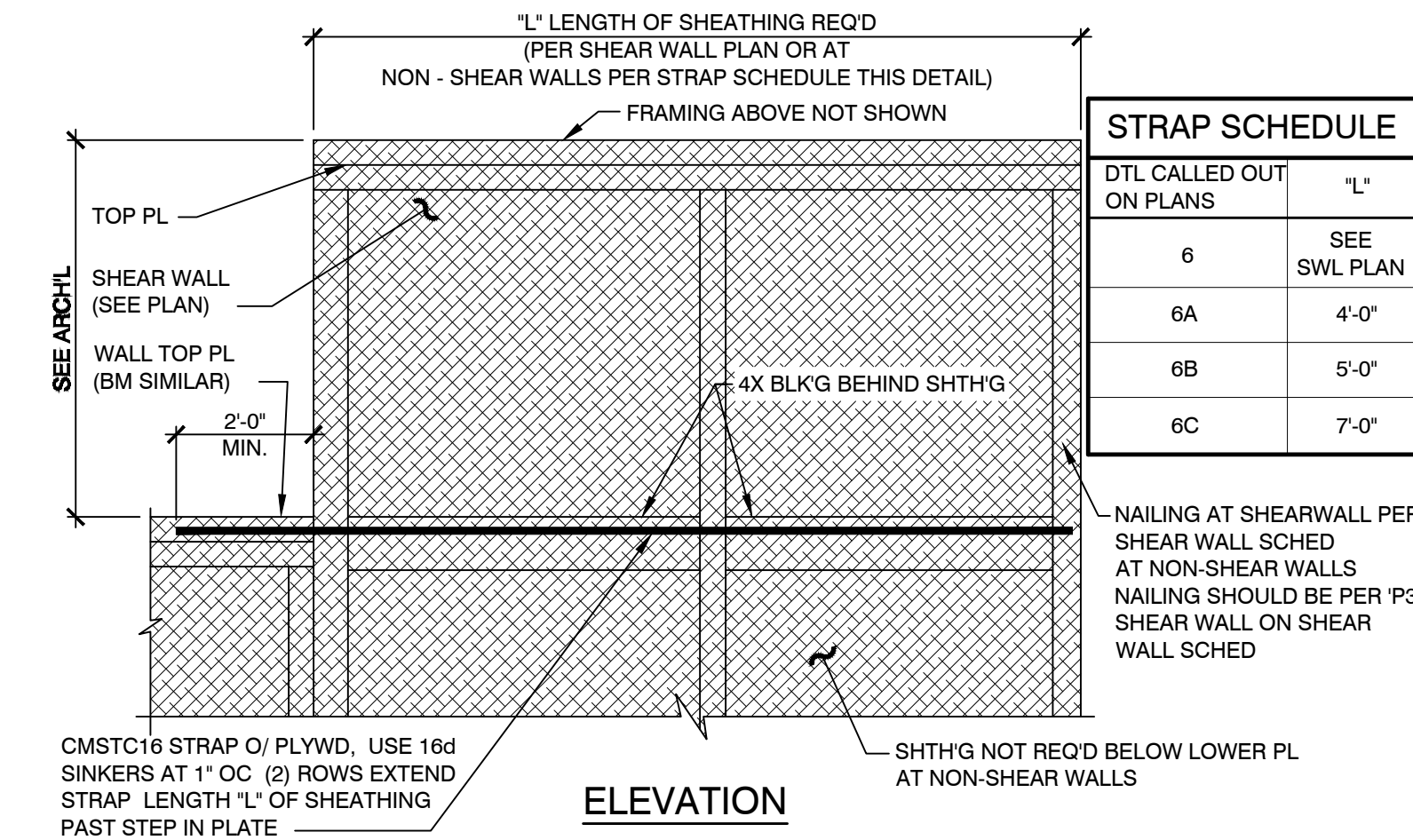
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**SD-1.1**



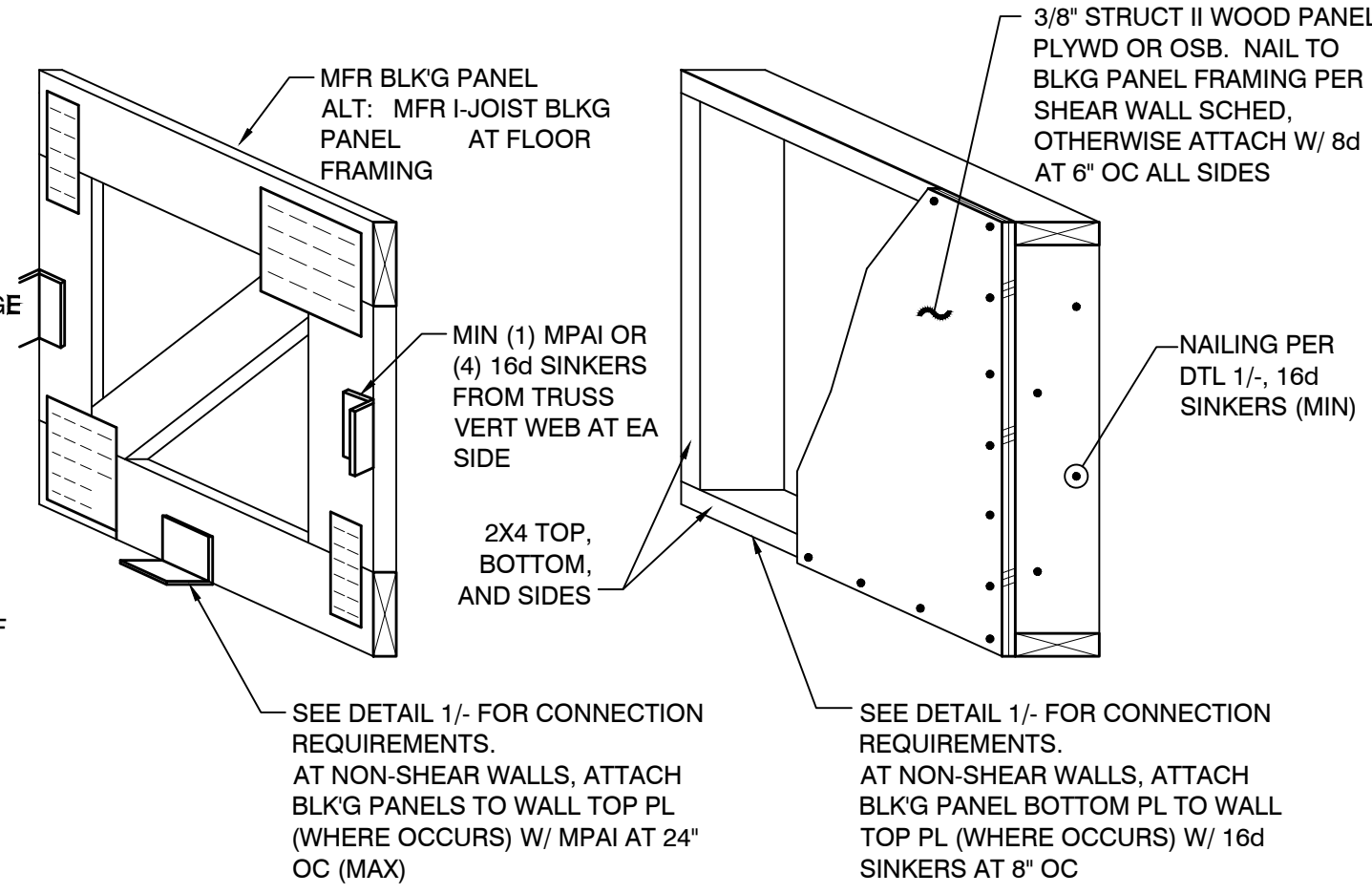
9 TWO SHEAR WALLS AT CORNER W/ SHARED HOLDOWN  
NTS



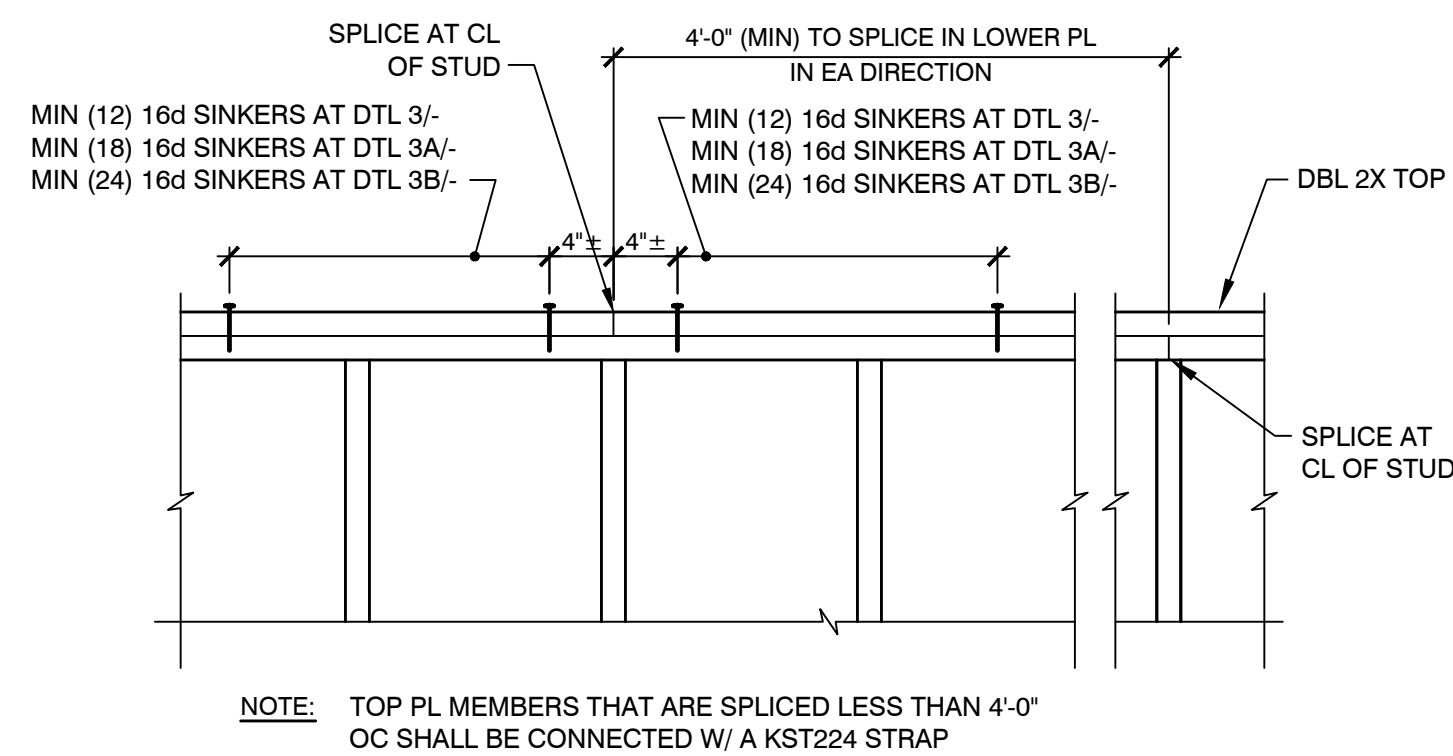
5 APPLICABLE ONLY WHERE SPECIFIED ON PLANS  
NTS



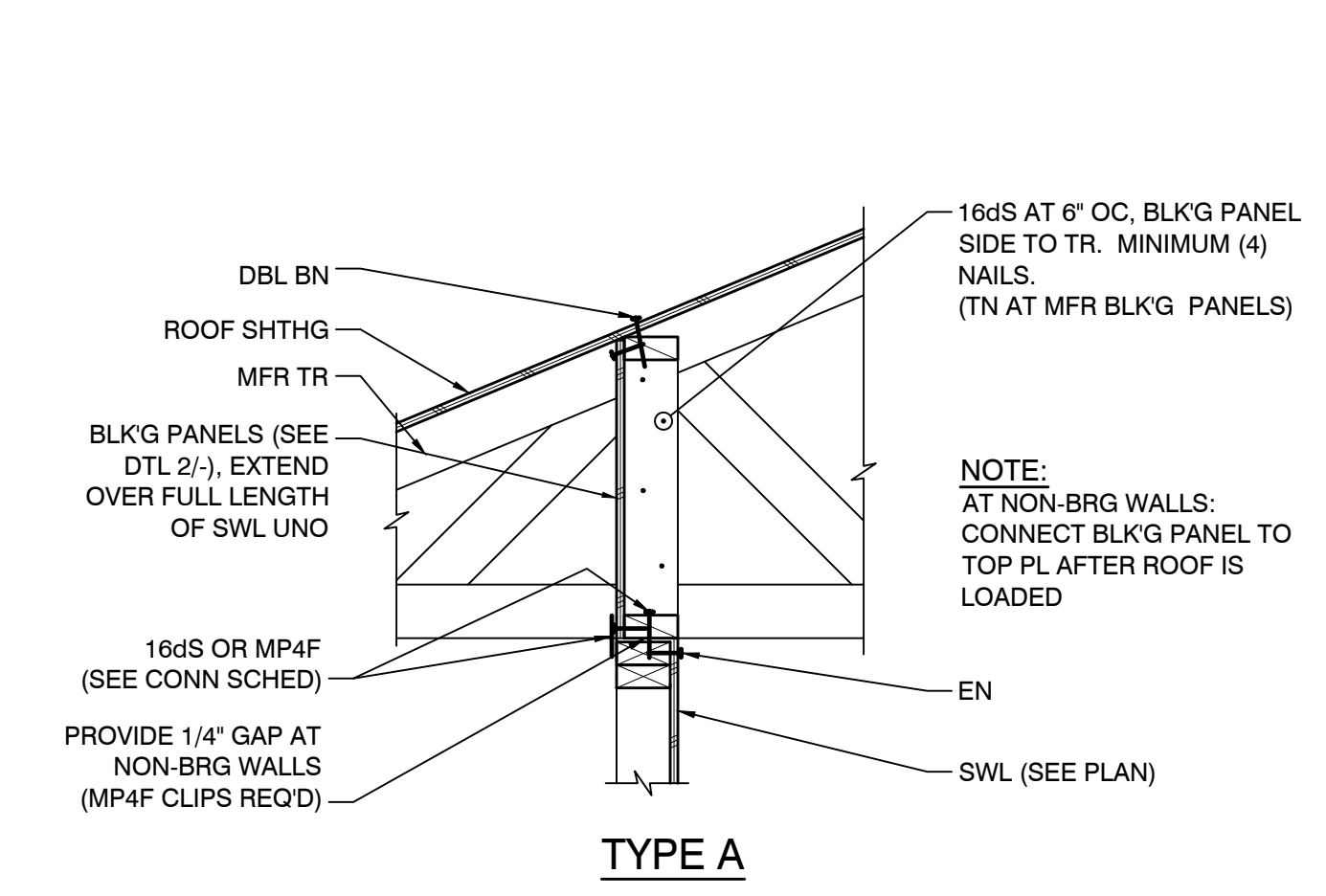
6 6A 6B 6C PLATE STEP  
NTS



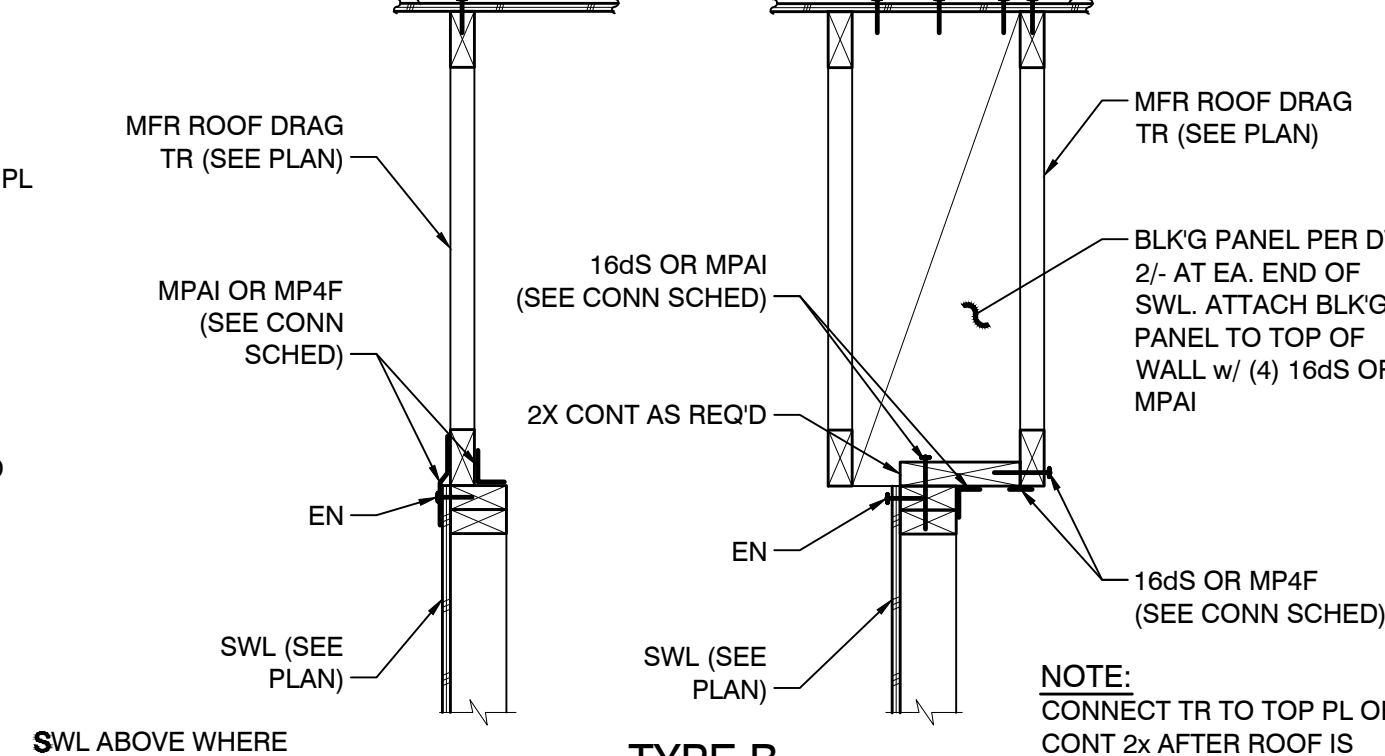
2 BLOCKING PANEL  
NTS



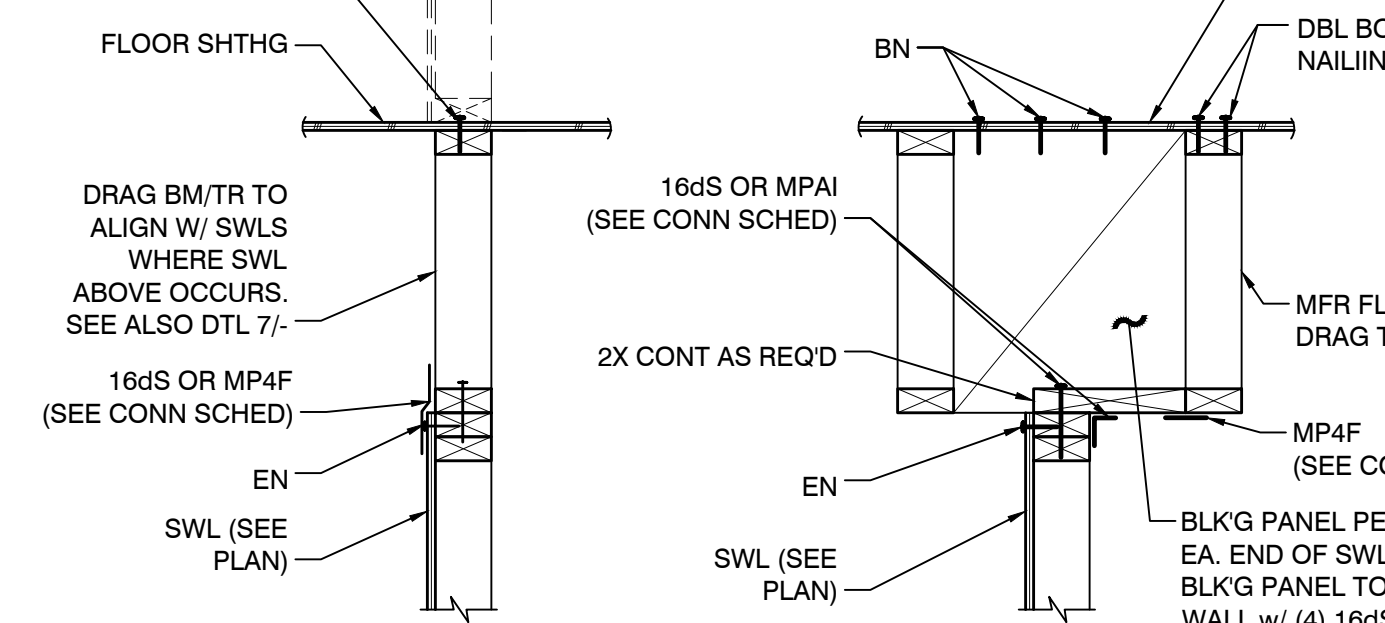
3 3A 3B TOP PLATE SPLICE  
NTS



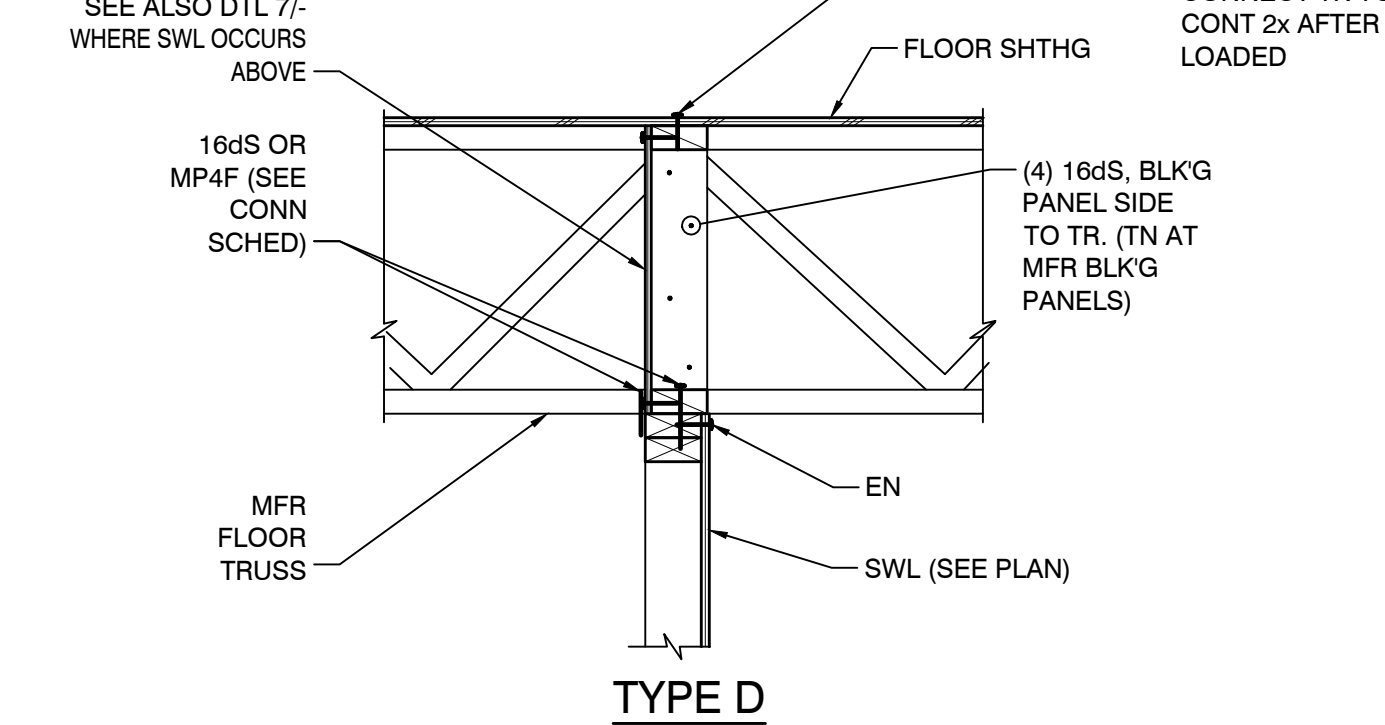
1 SHEAR TRANSFER DTLS  
NTS



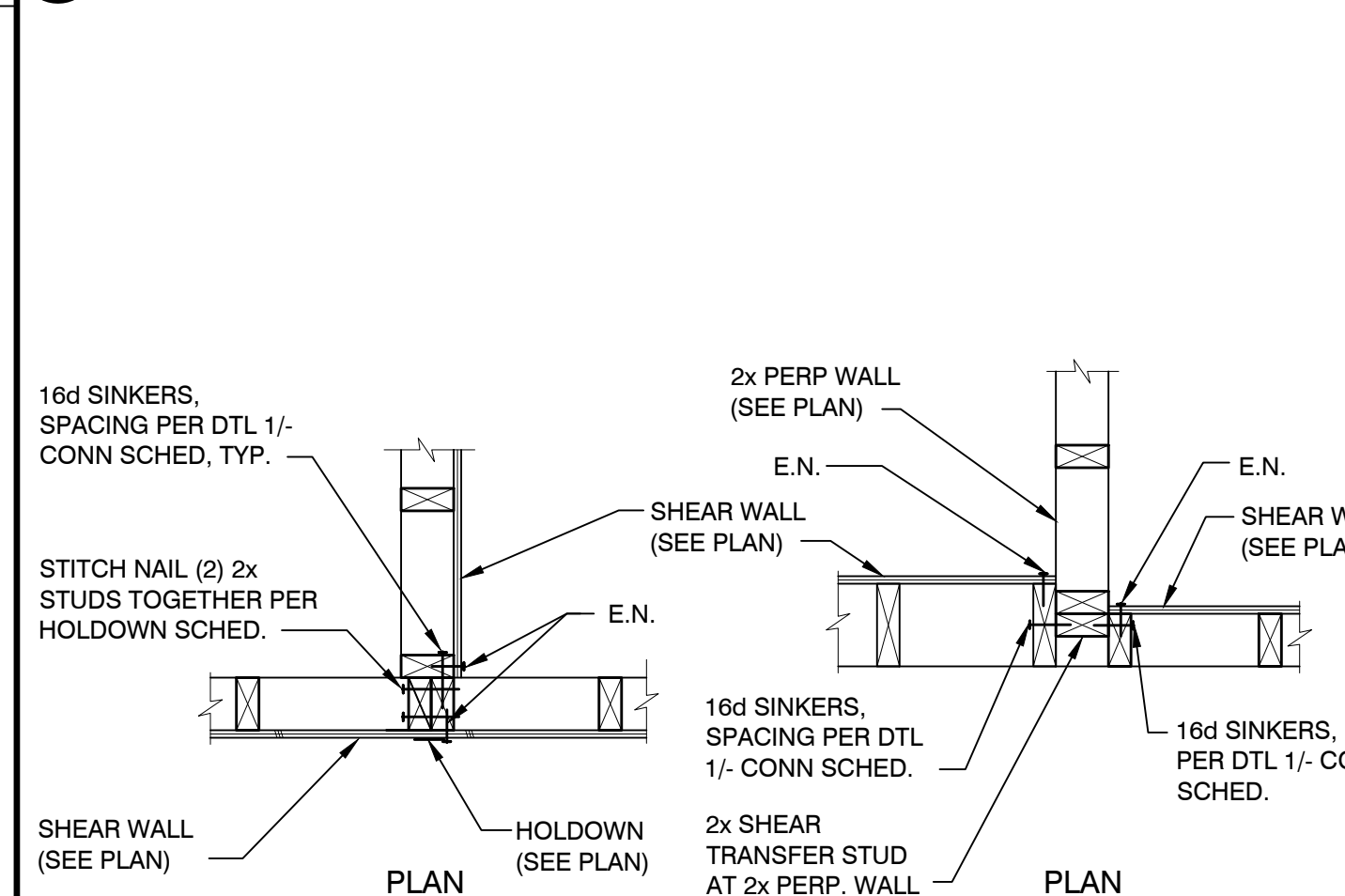
4 HOLD DOWN TRANSFER AT FLOOR  
NTS



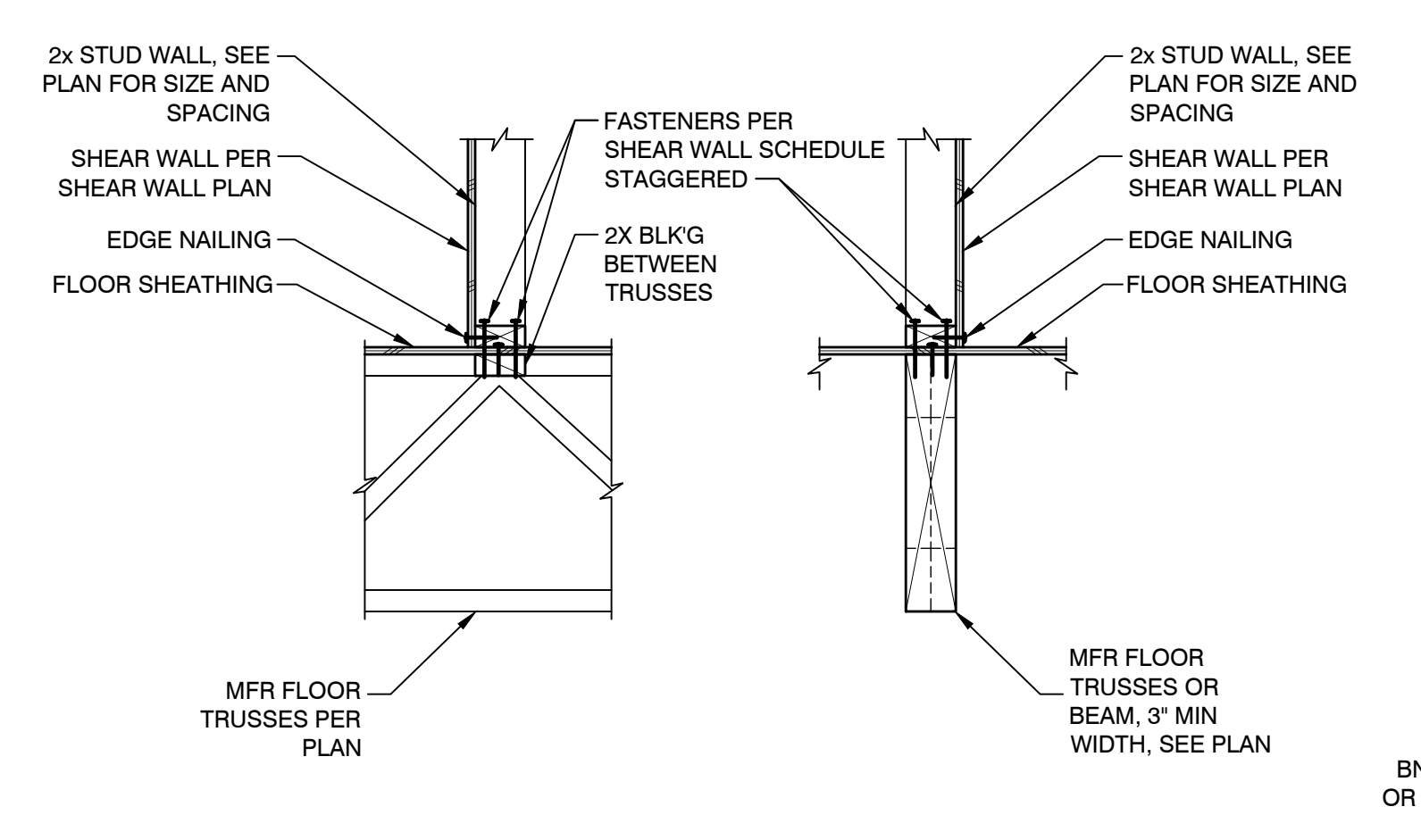
7 INT. S/W TO MFR FLOOR TRUSSES OR BEAM  
NTS



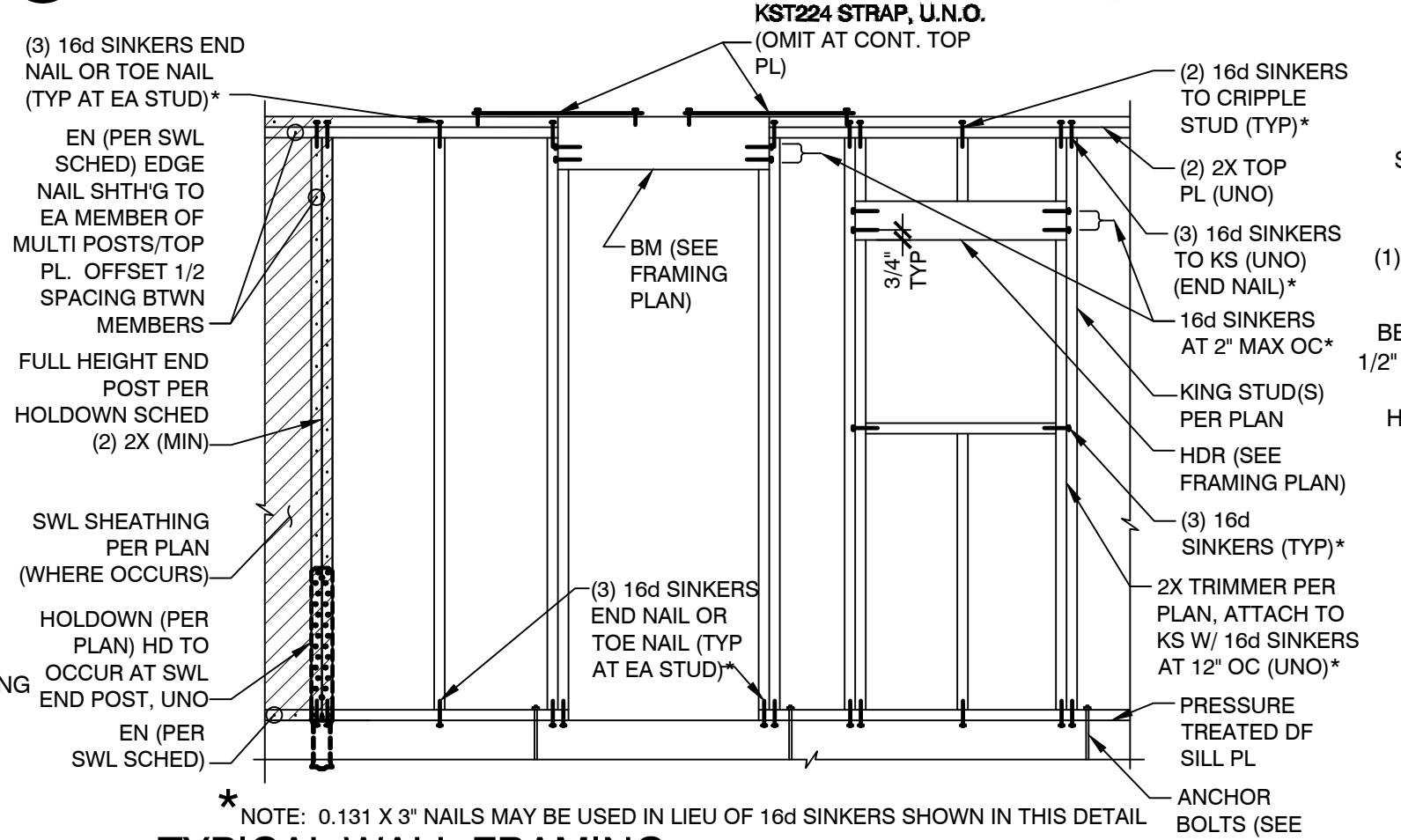
10 STRAP PLACEMENT  
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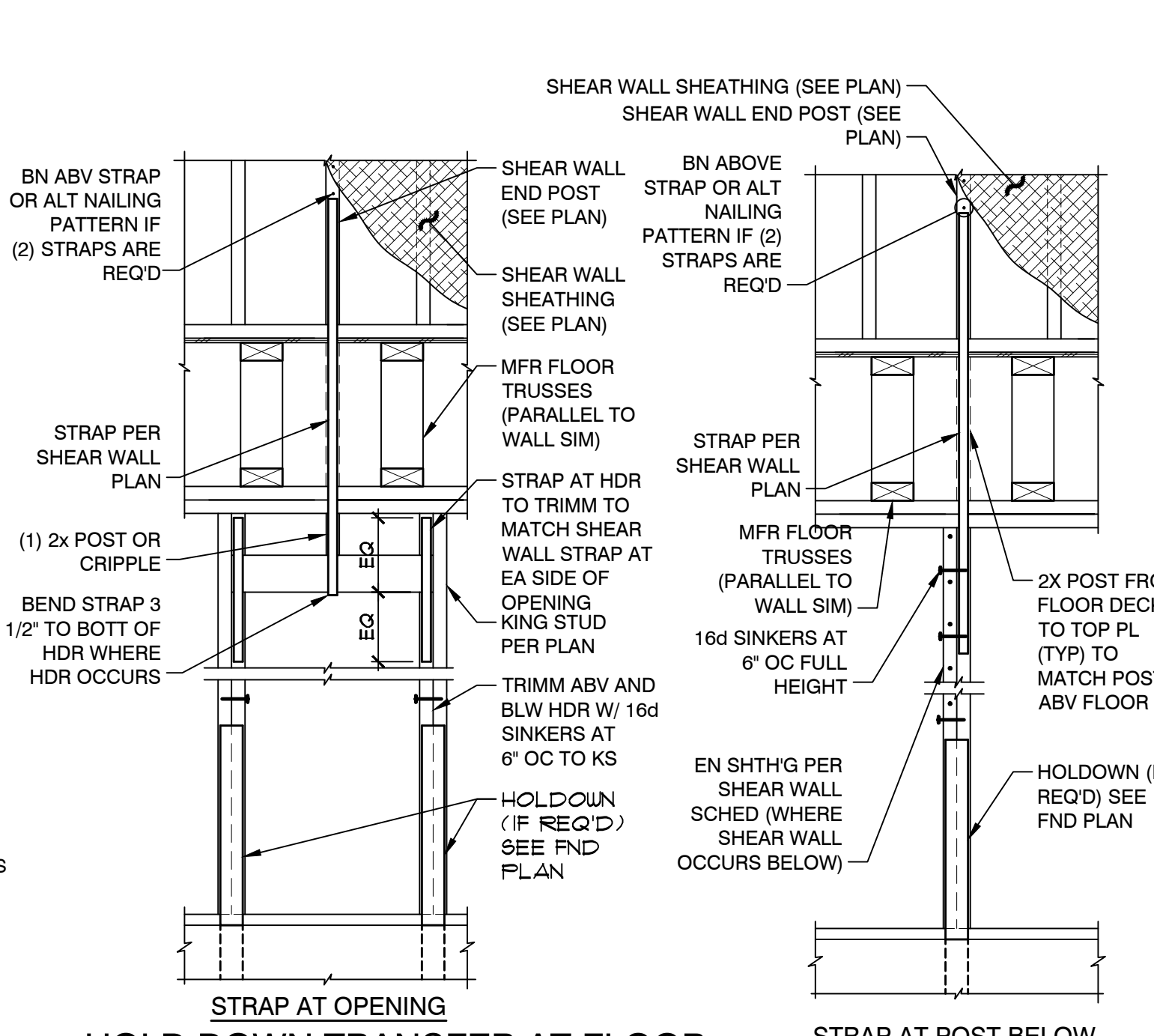
11 STRAP PLACEMENT  
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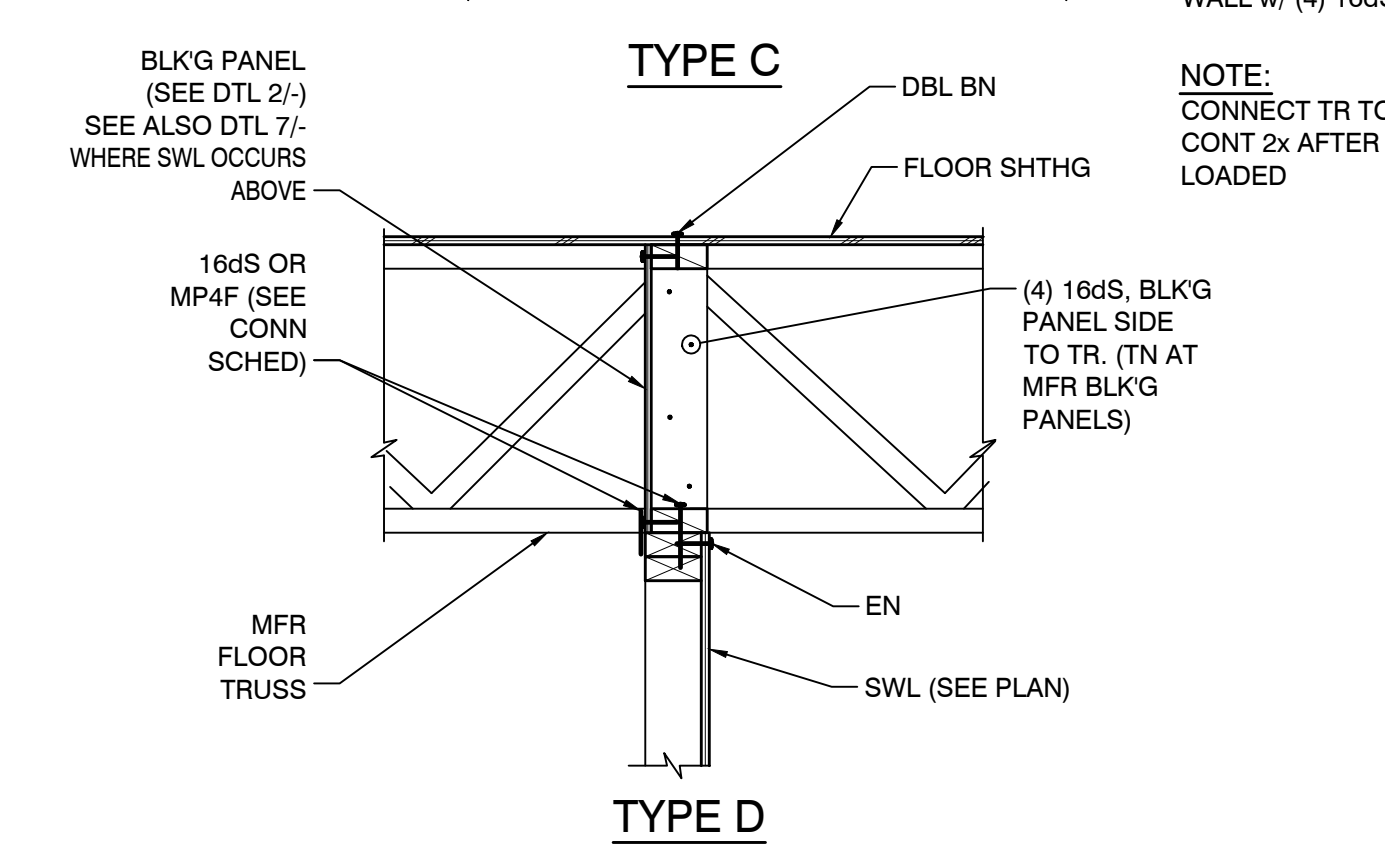
10 STRAP PLACEMENT  
NTS



11 STRAP PLACEMENT  
NTS



4 HOLD DOWN TRANSFER AT FLOOR  
NTS



1 SHEAR TRANSFER DTLS  
NTS

CONNECTION SCHEDULE			
	SWL	DFL / SPF	16dS
	NON-SWL	32\"/>	
	G1, G2, WSP ABW, PFG, PFH	32\"/>	
	P1	18\"/>	
	P2/P2a	12\"/>	
	P3	10\"/>	
	P4	8\"/>	
	P5	12\"/>	

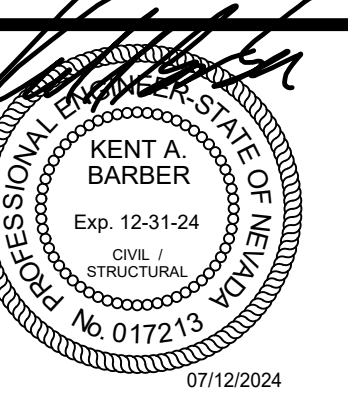
NOTE 1: DBL-SIDED SWLS, USE 1/2 OF THE SPACING SHOWN ABOVE

1 SHEAR TRANSFER DTLS  
NTS



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SHEET TITLE: STRUCTURAL DETAILS

BUILDING PERMIT PACKAGE  
04-25-2024

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SHEET

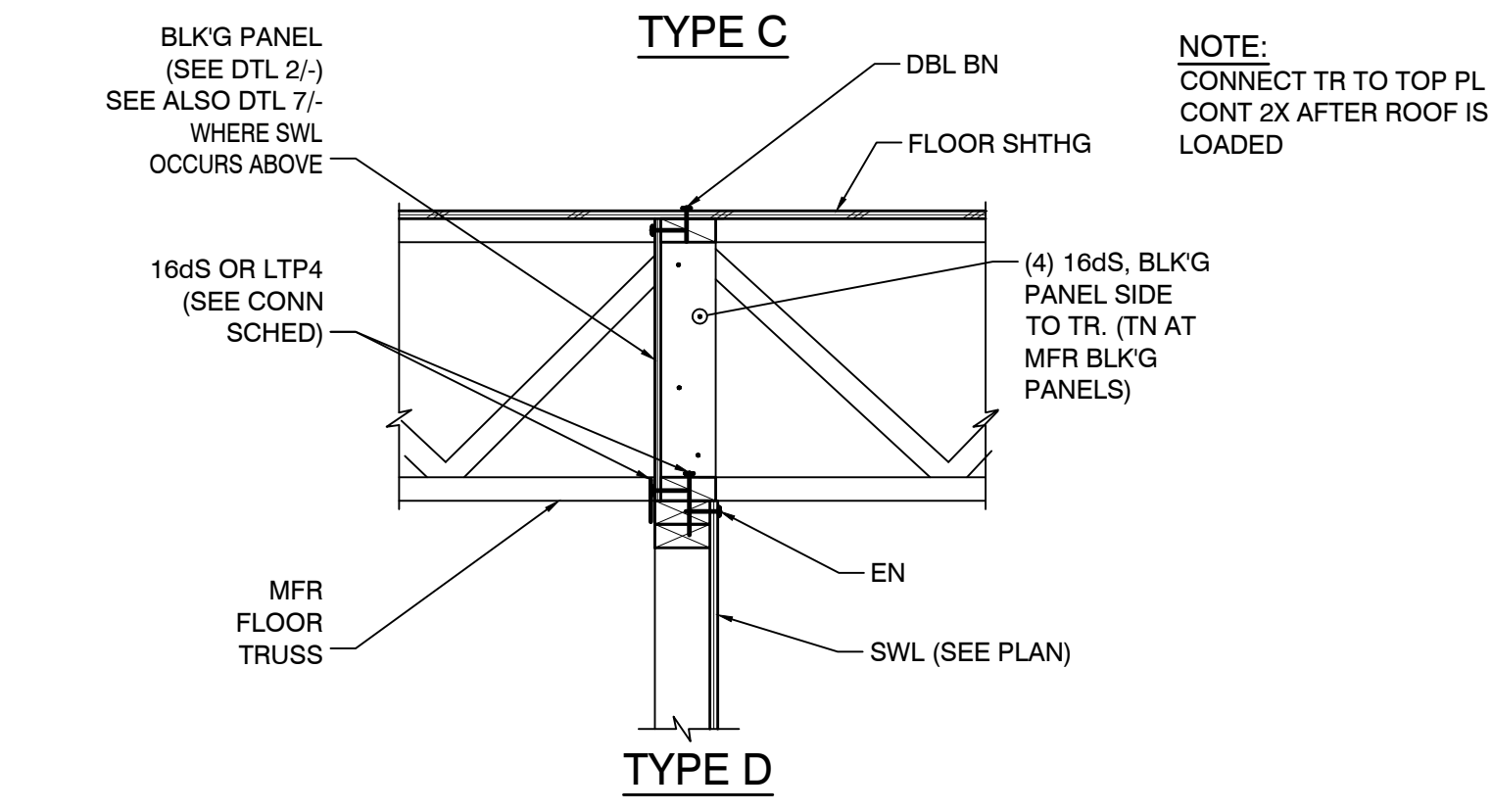
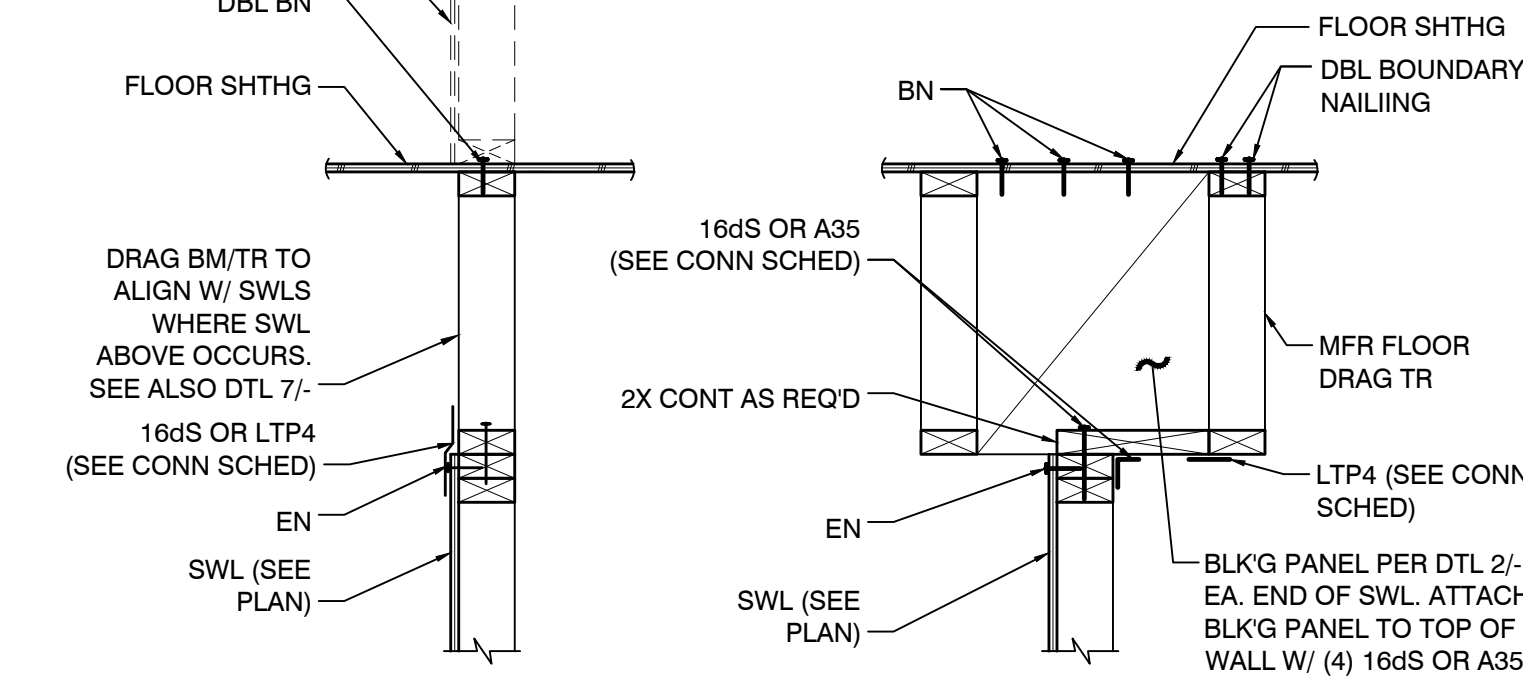
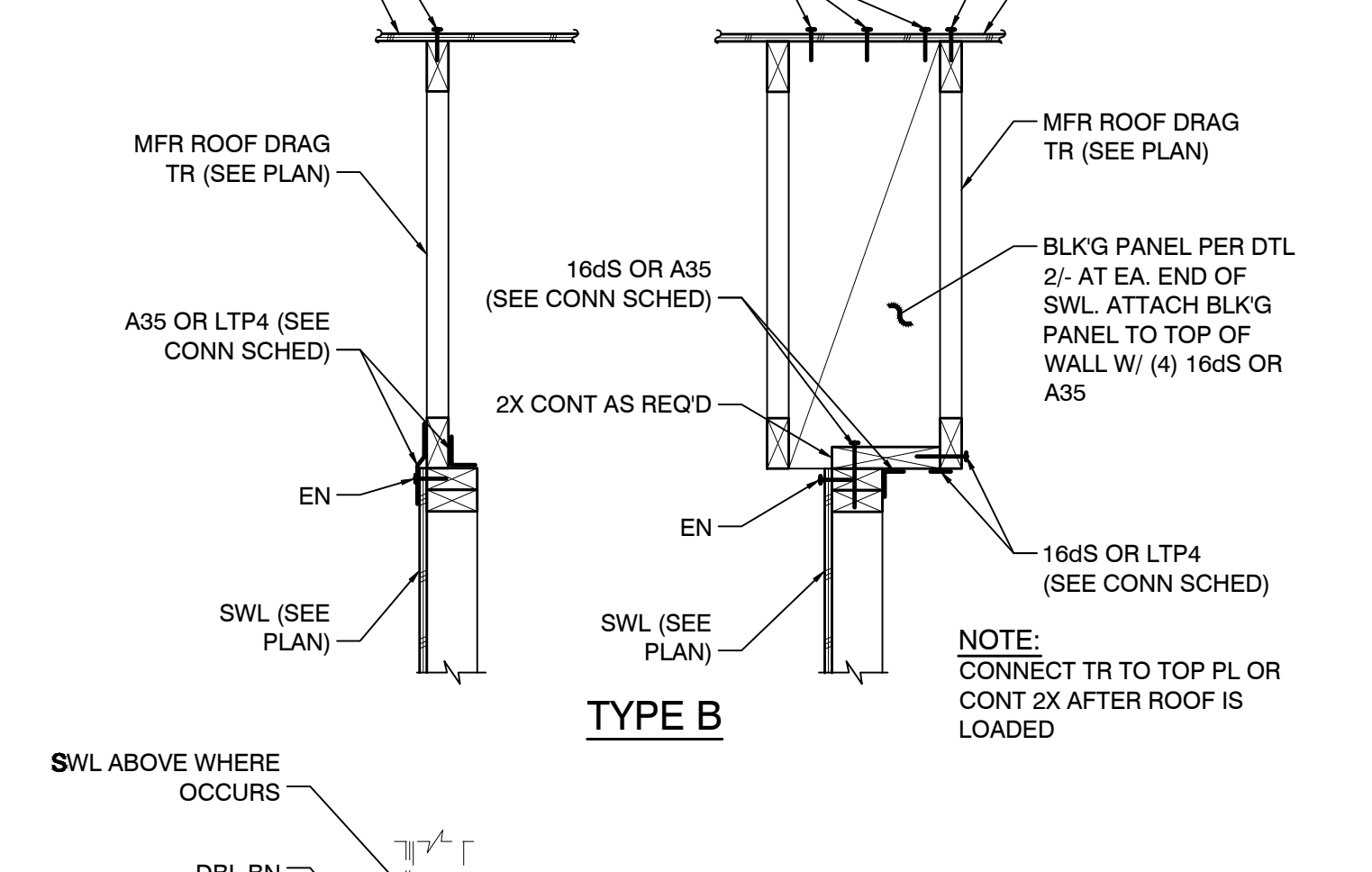
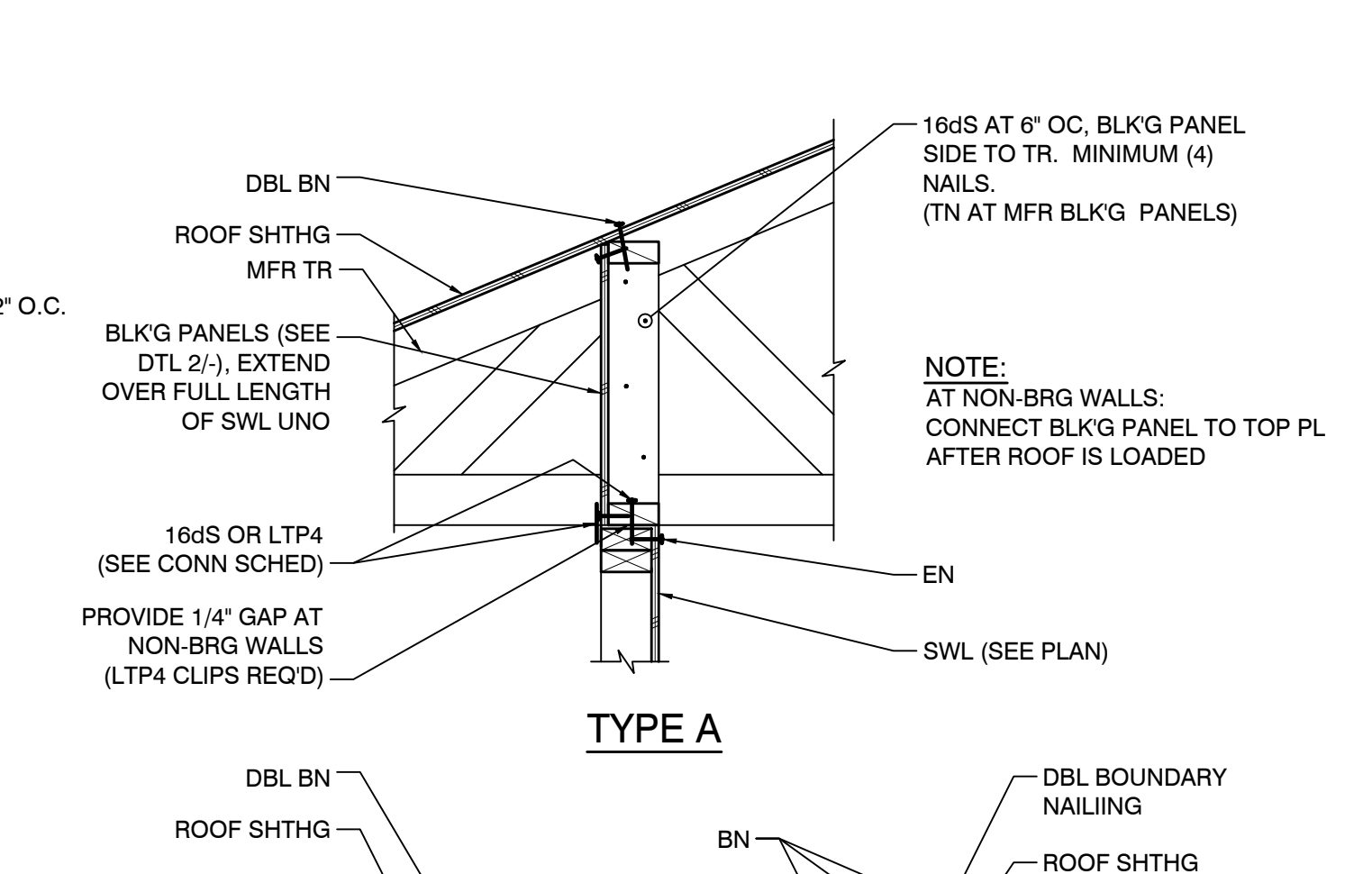
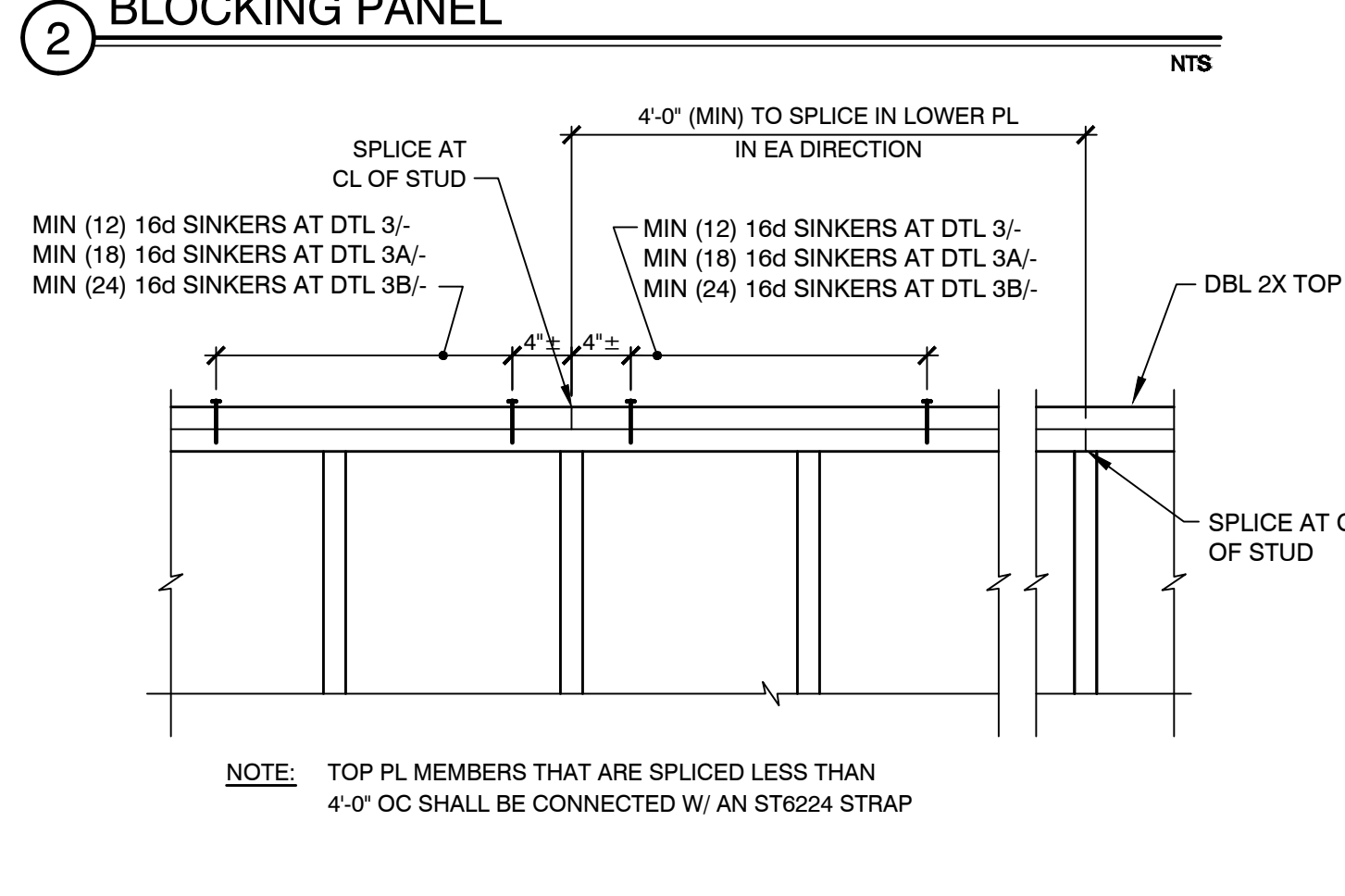
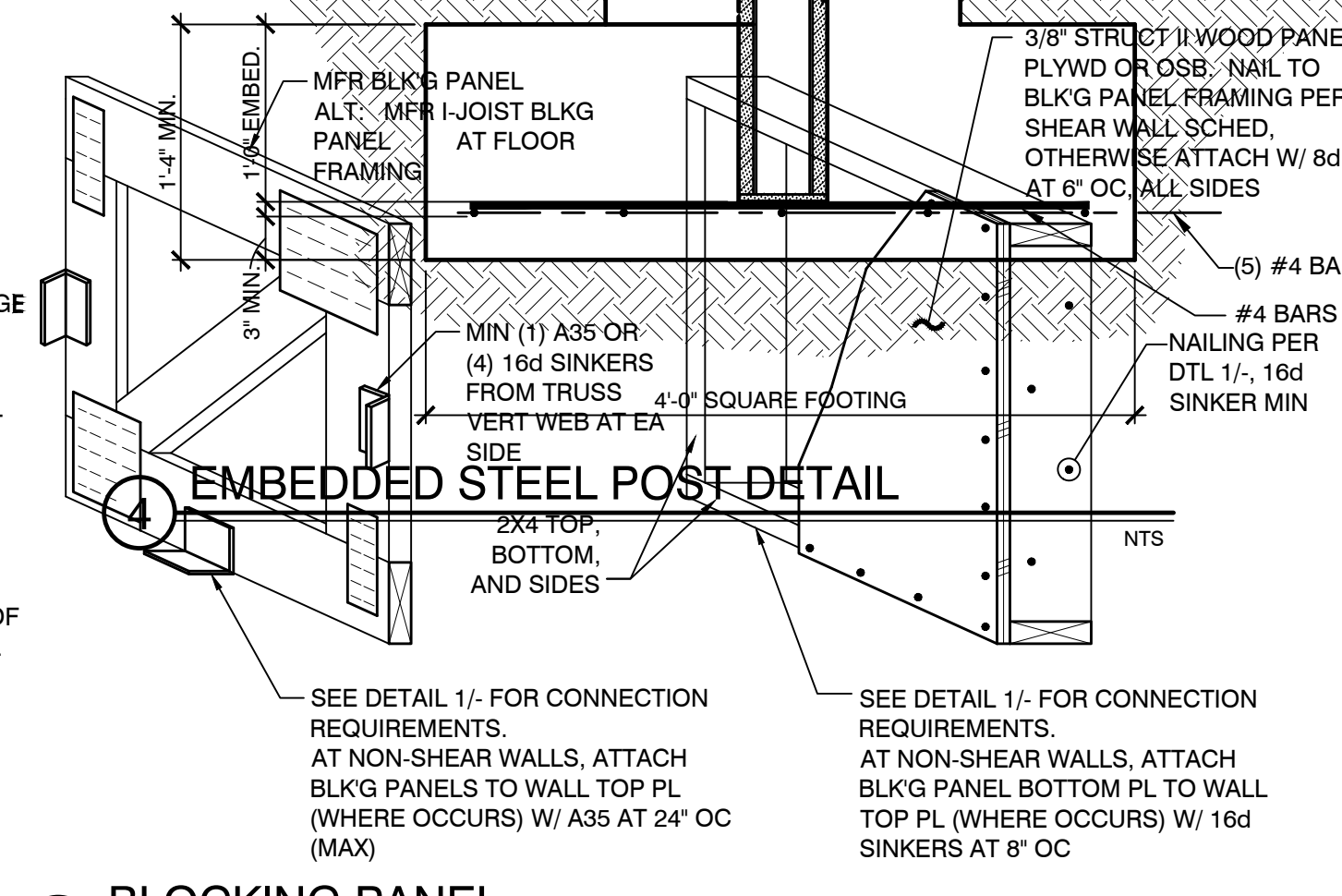
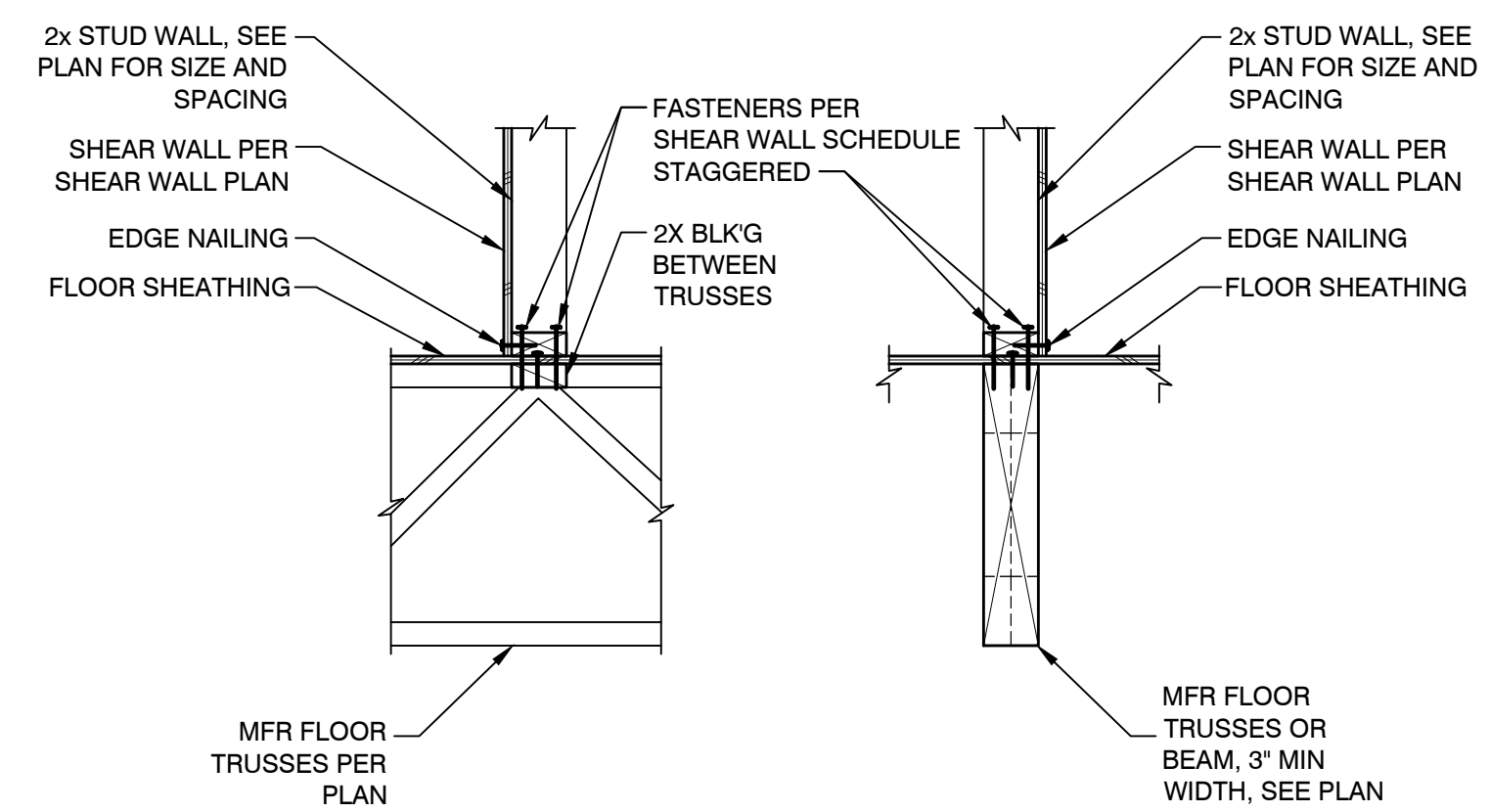
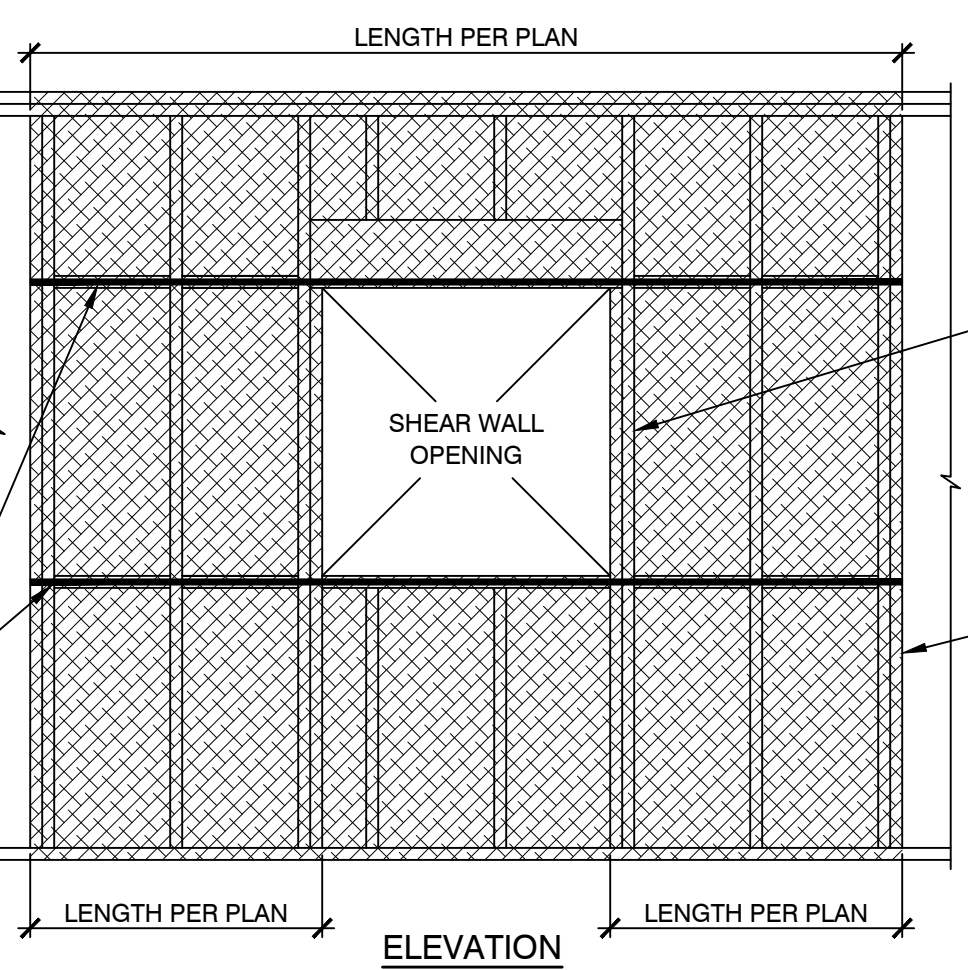
SD-2

NOTES:  
 1. EXTEND STRAP TO END OF SHEAR WALL  
 2. EDGE NAILING NOT REQUIRED ABOVE AND BELOW OPENING

STRAP PER PLAN (CS16 UNO) Q/ HDR AND 2X BLKG W/ (MIN) 8d NAILS AT 4 1/8" OC (LOWER STRAP IS OMITTED AT DOOR OPENINGS) (PROVIDE 4X BLKG WHERE REQ'D)

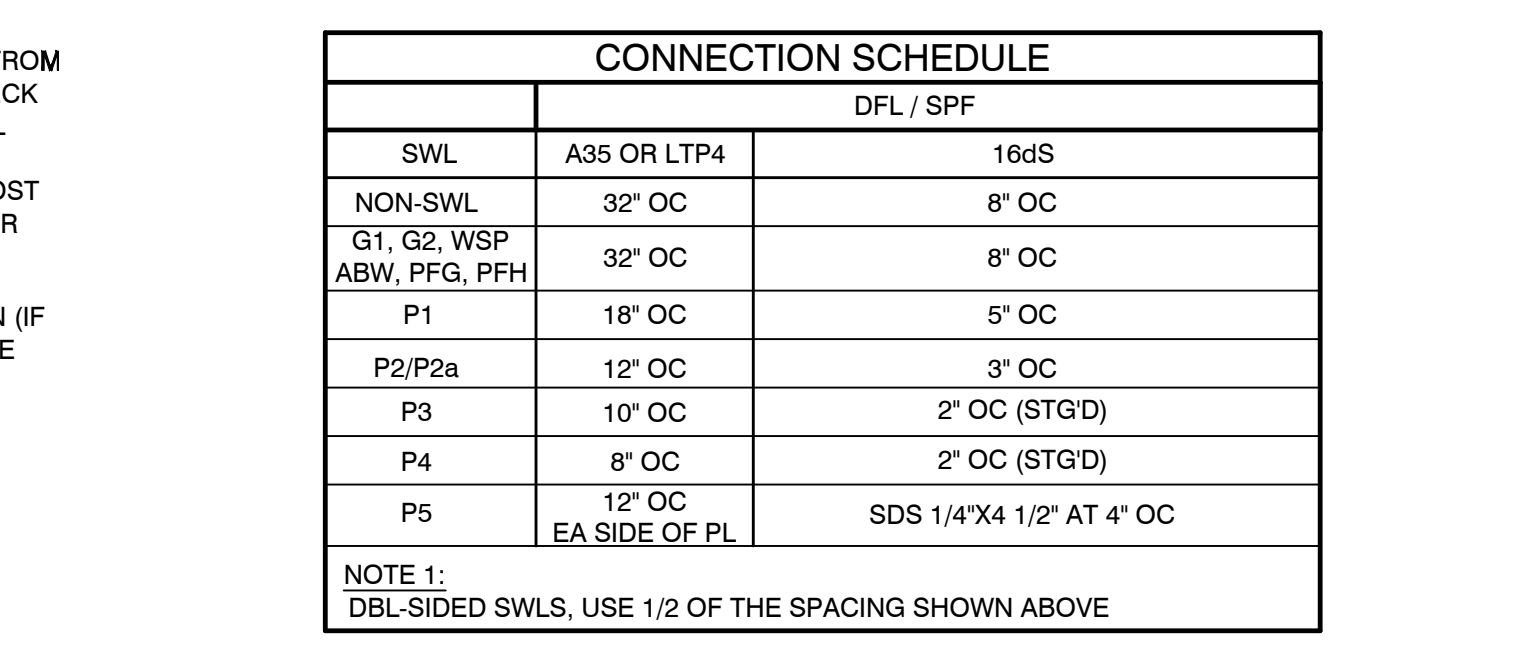
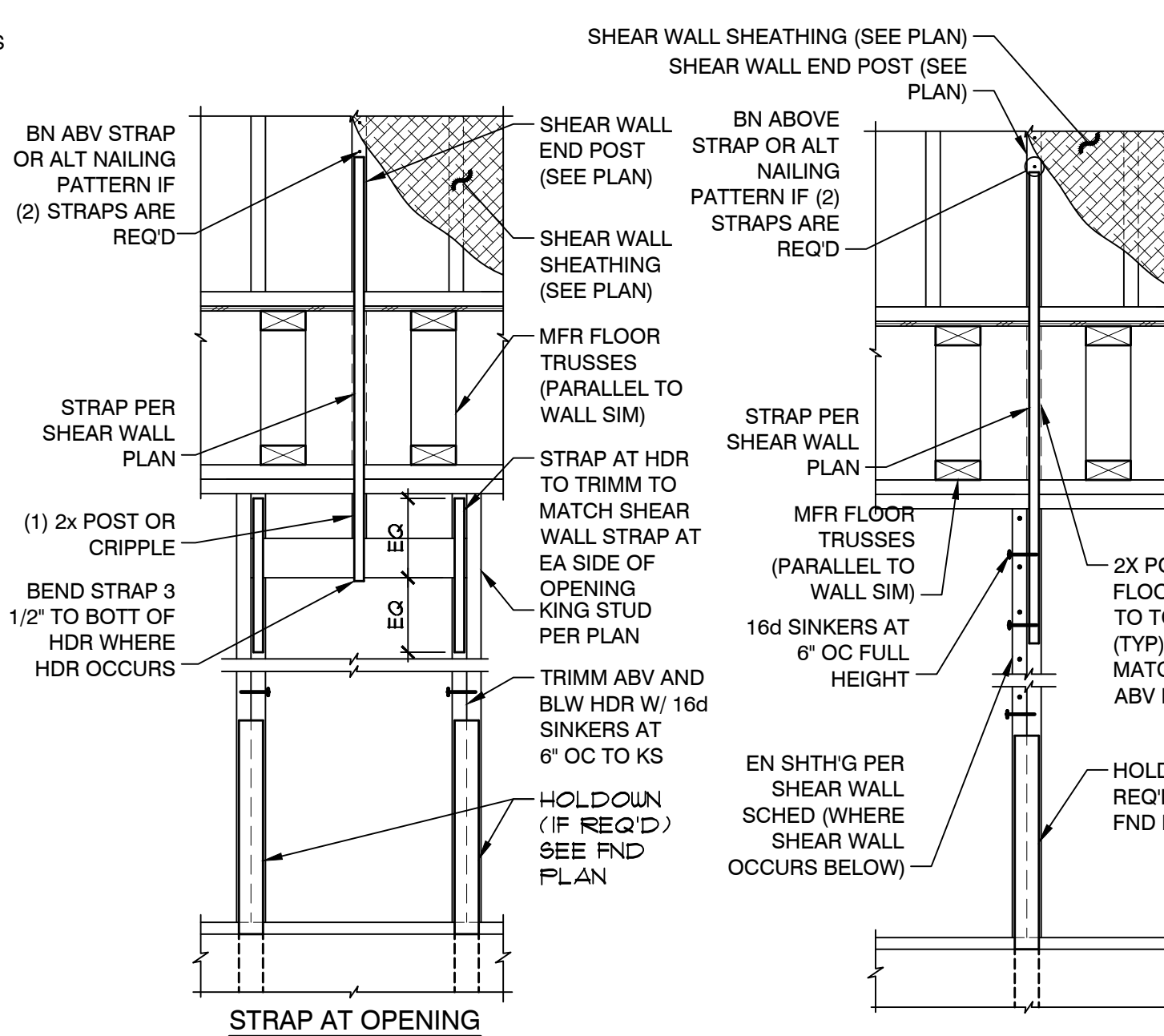
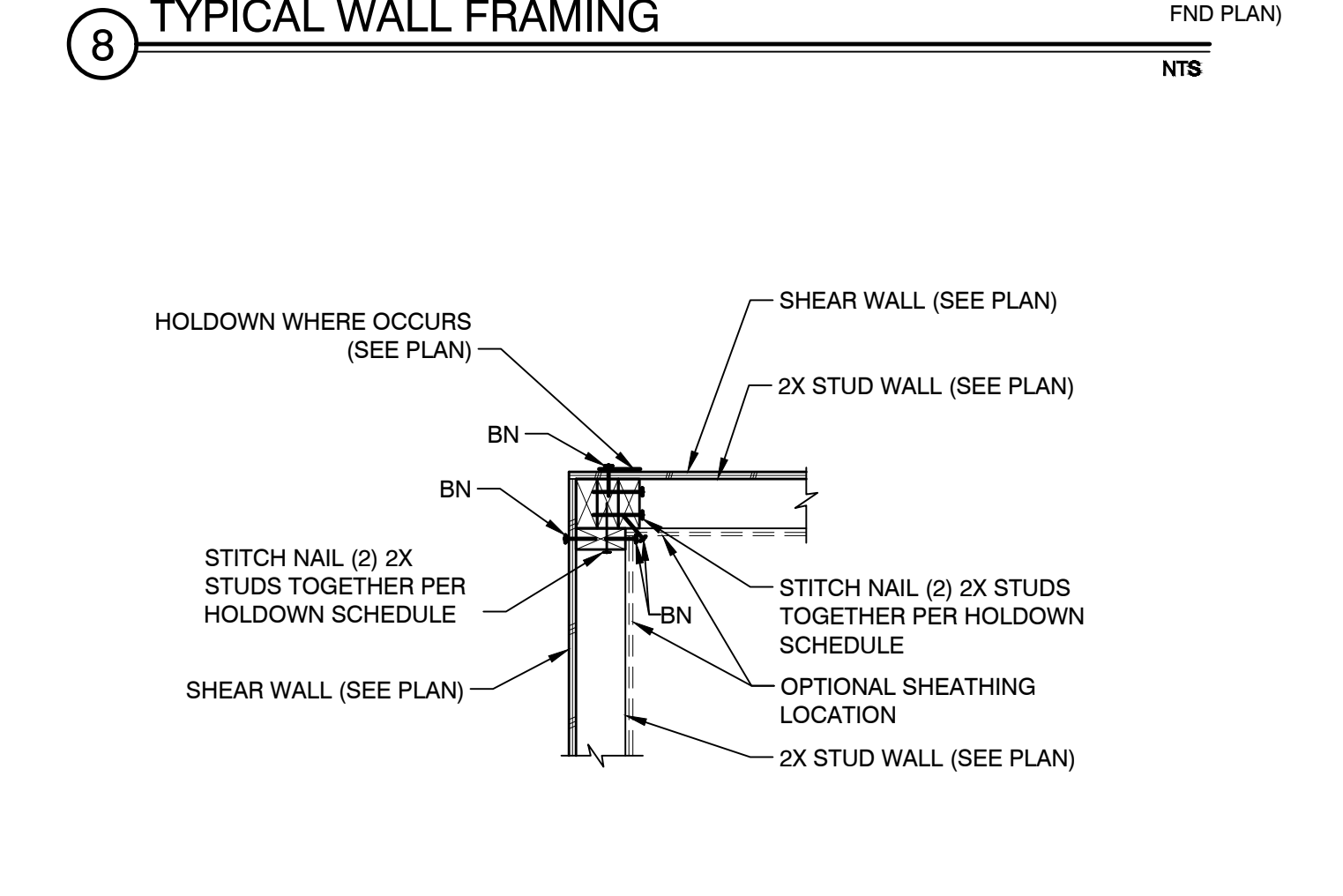
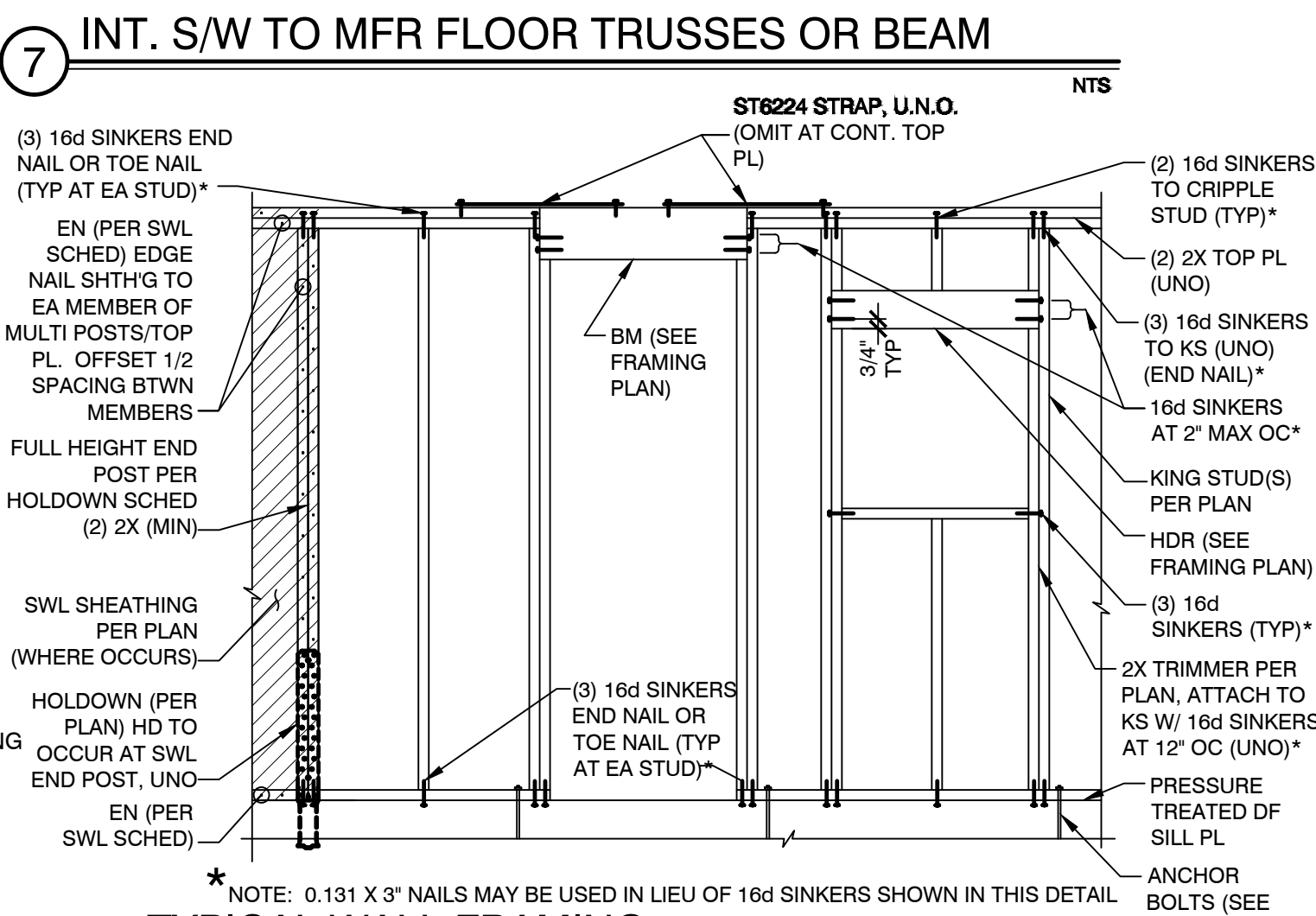
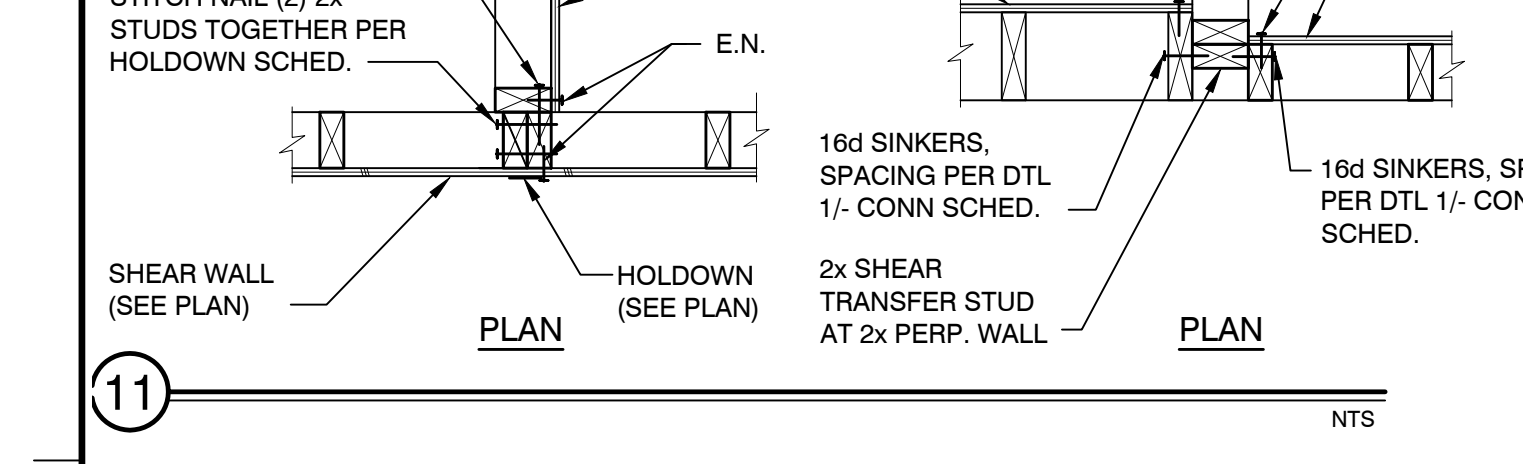
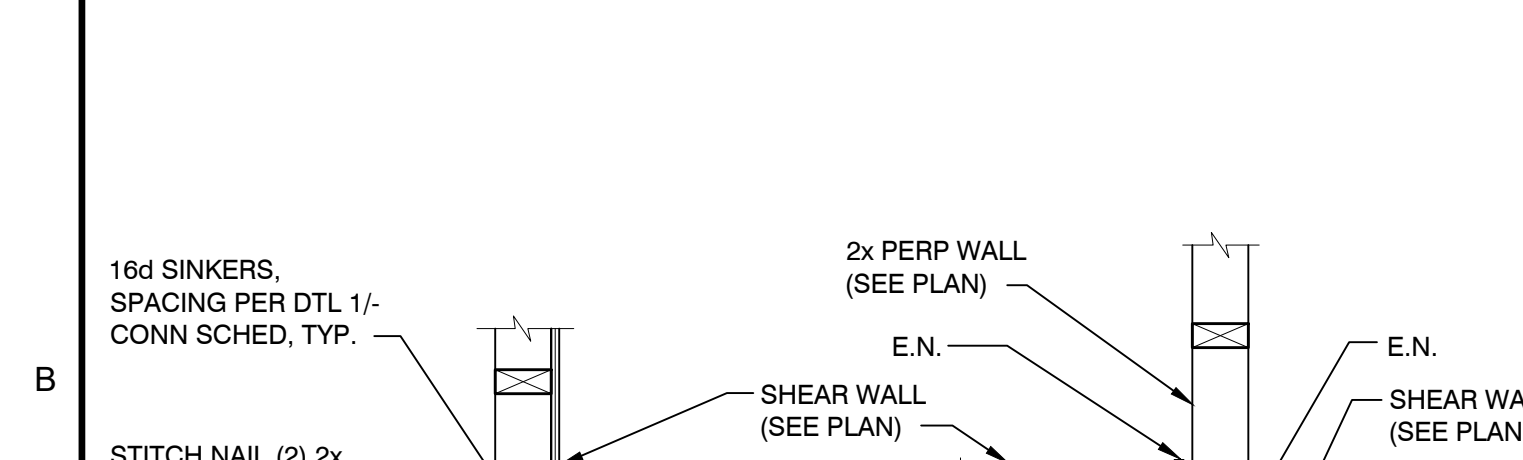
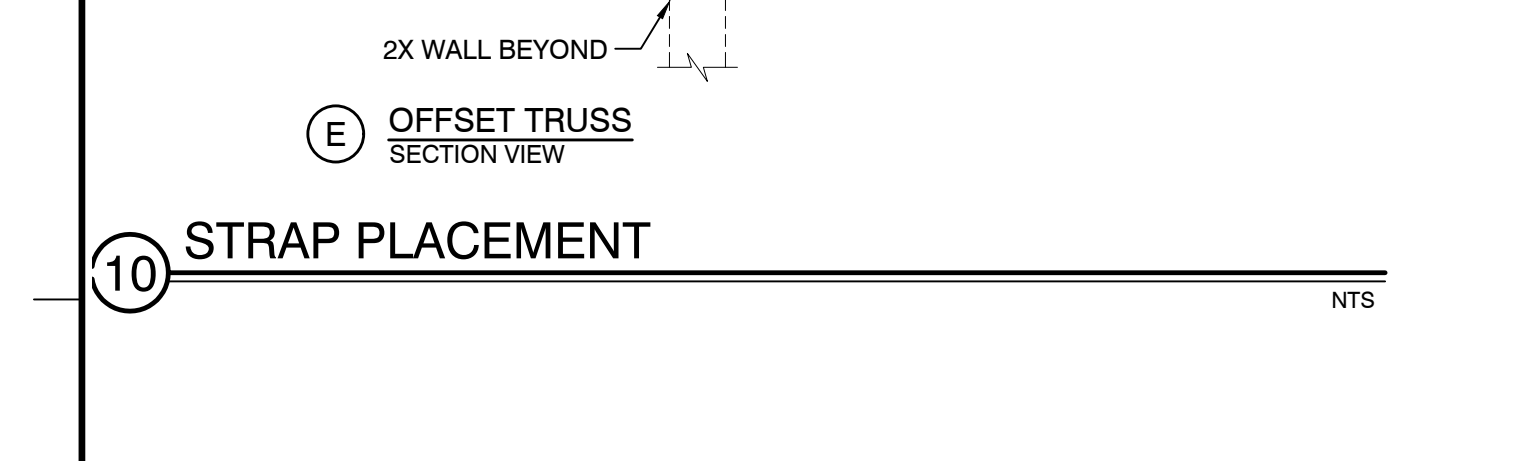
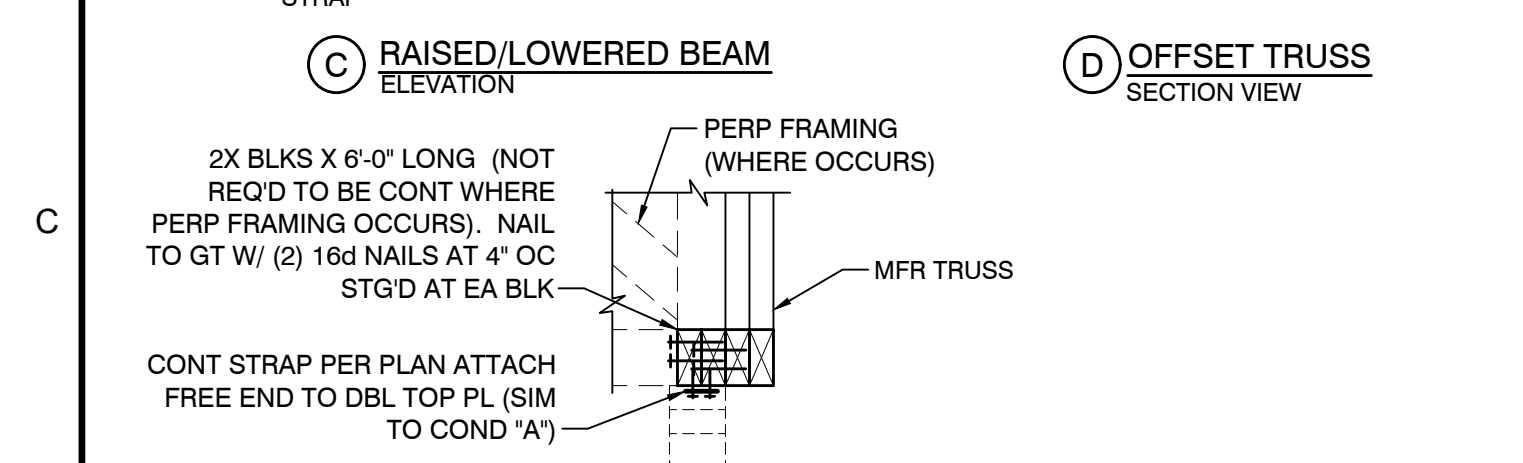
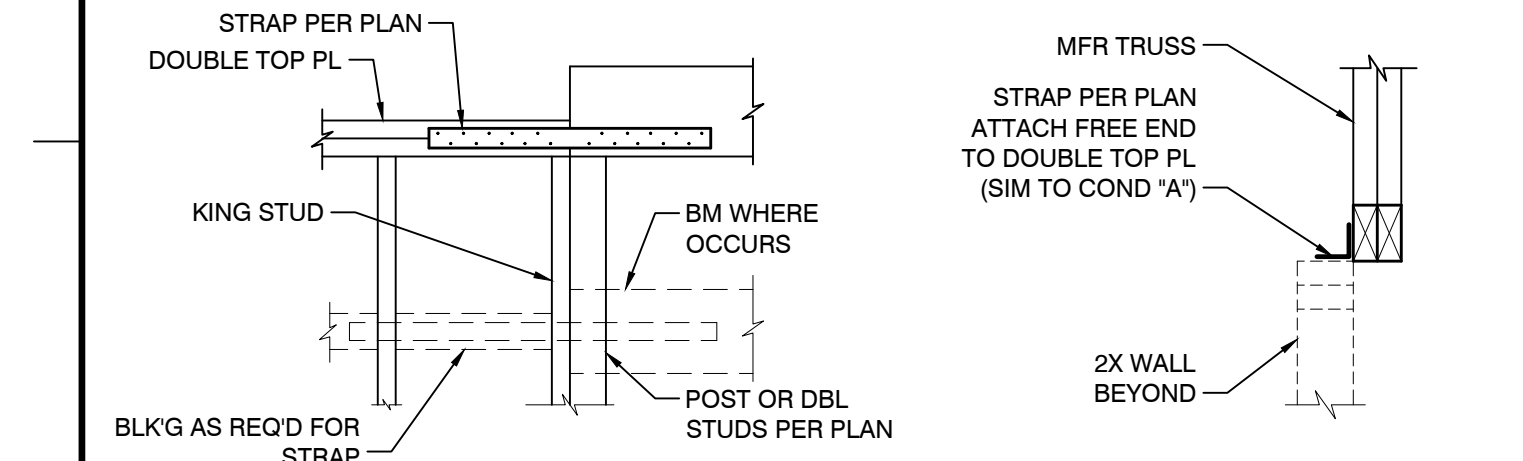
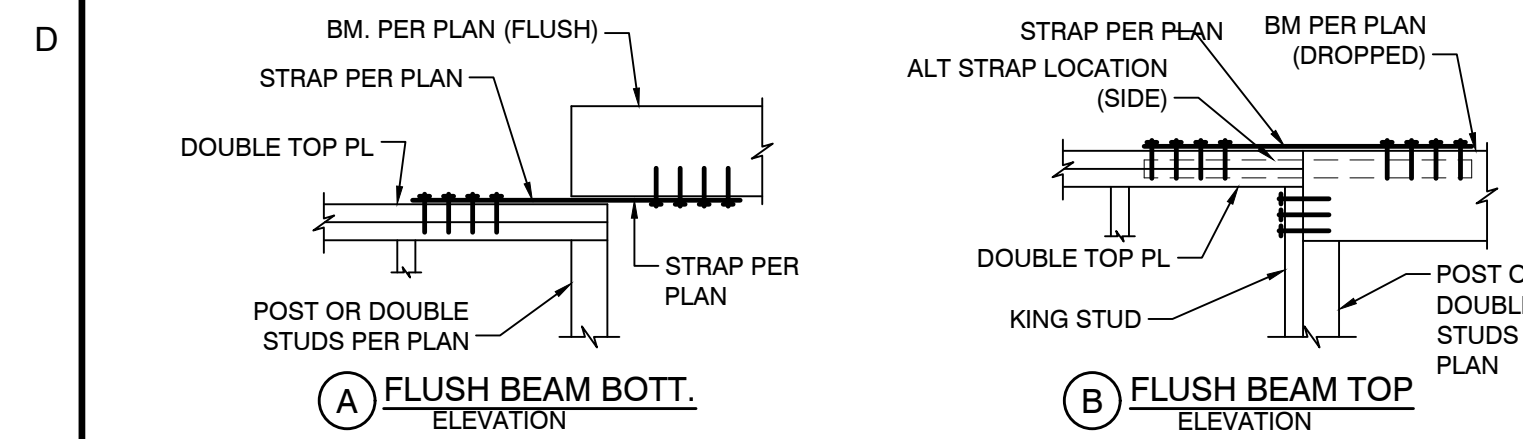
AT P3 SHEAR WALL SPECIFICATION PROVIDE 8d NAILS AT 2 1/8" OC AT CS16 STRAPS

APPLICABLE ONLY WHERE SPECIFIED ON PLANS

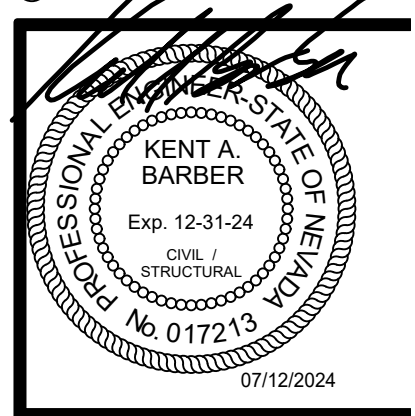


CONNECTION SCHEDULE			
	DFL / SPF		
SWL	A35 OR LTP4	16dS	
NON-SWL	32" OC	8" OC	
G1, G2, WSP ABW, PFG, PPH	32" OC	8" OC	
P1	18" OC	5" OC	
P2/P2a	12" OC	3" OC	
P3	10" OC	2" OC (STGD)	
P4	8" OC	2" OC (STGD)	
P5	12" OC	SDS 1/4"x4 1/2" AT 4" OC	

NOTE 1: DBL-SIDED SWLS, USE 1/2 OF THE SPACING SHOWN ABOVE



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 Suite #103  
 Las Vegas, NV 89113  
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 Fax: 702.888.2089  
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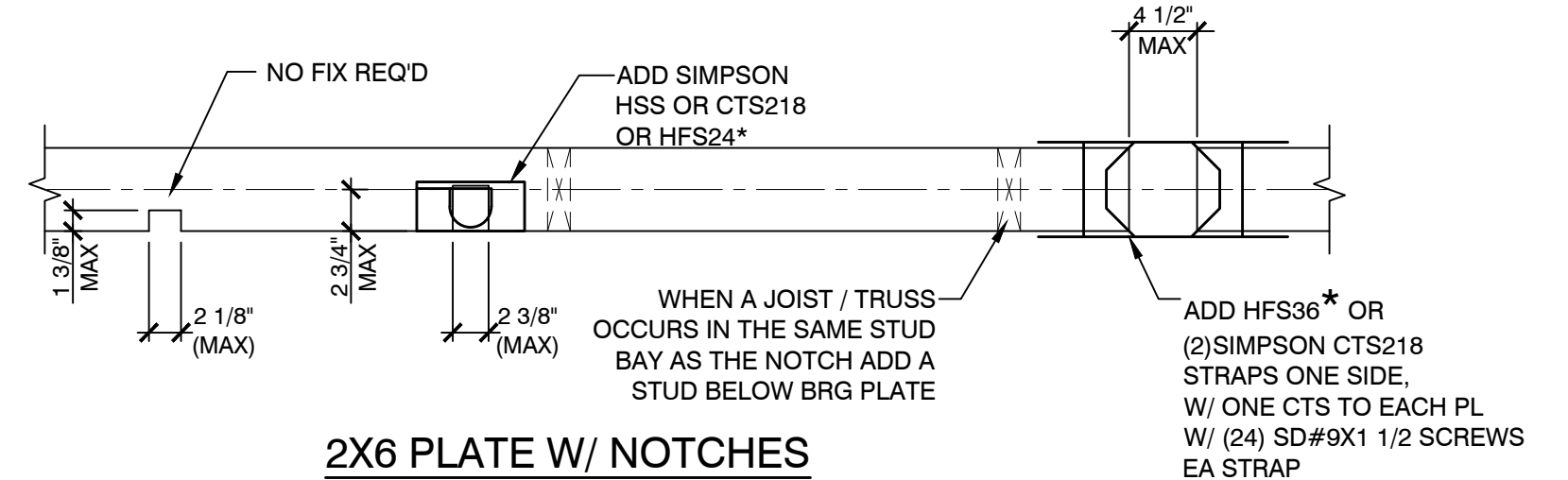
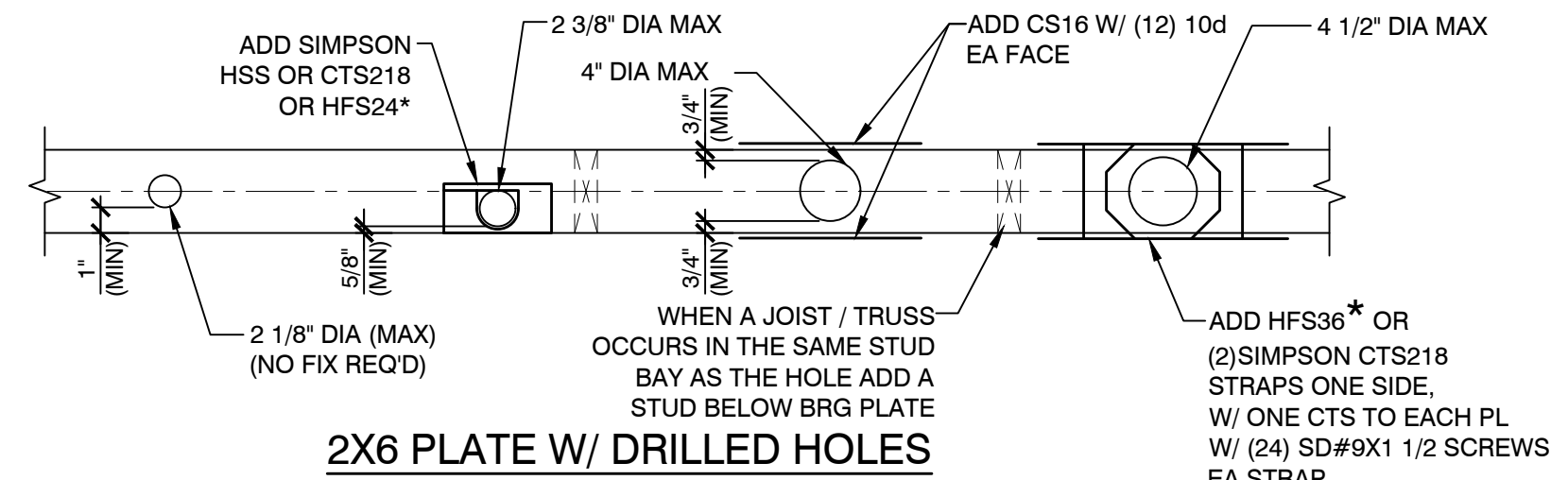
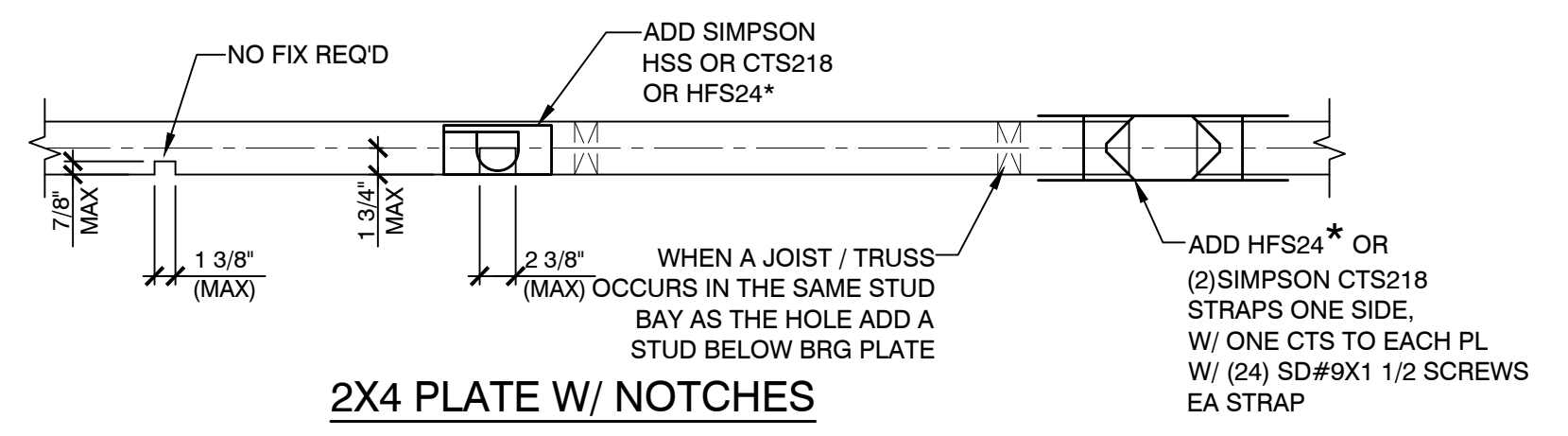
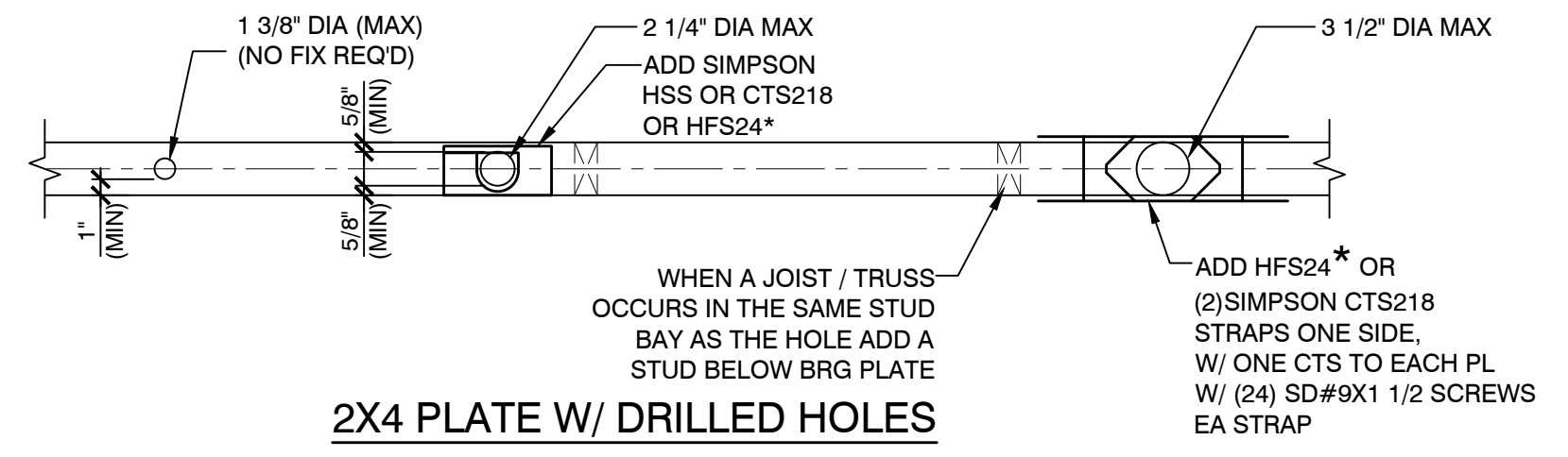
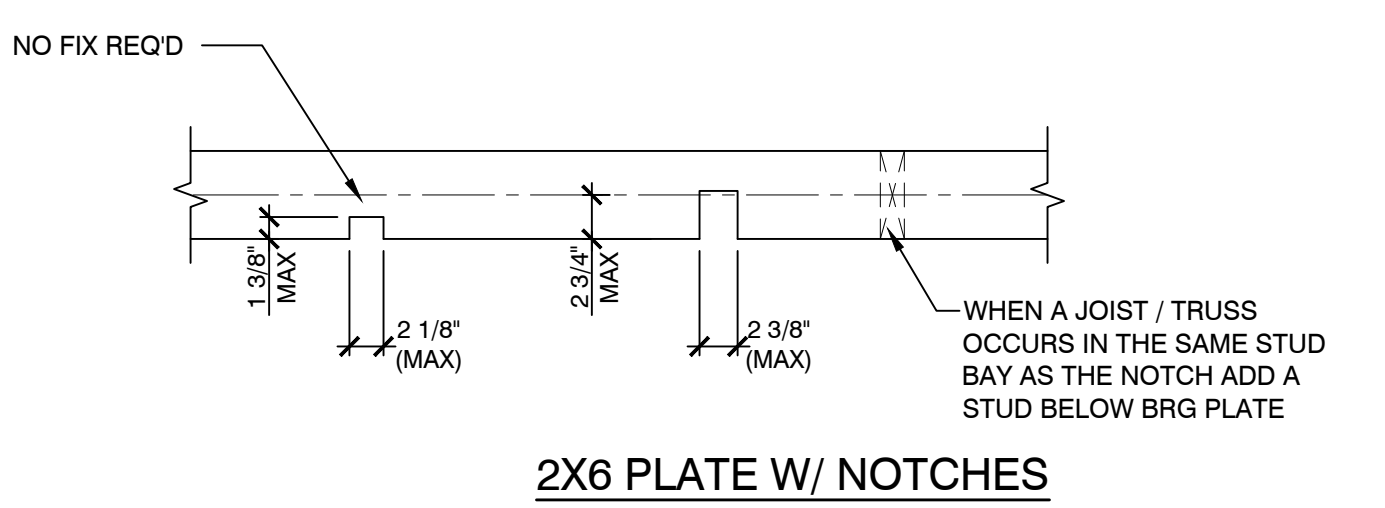
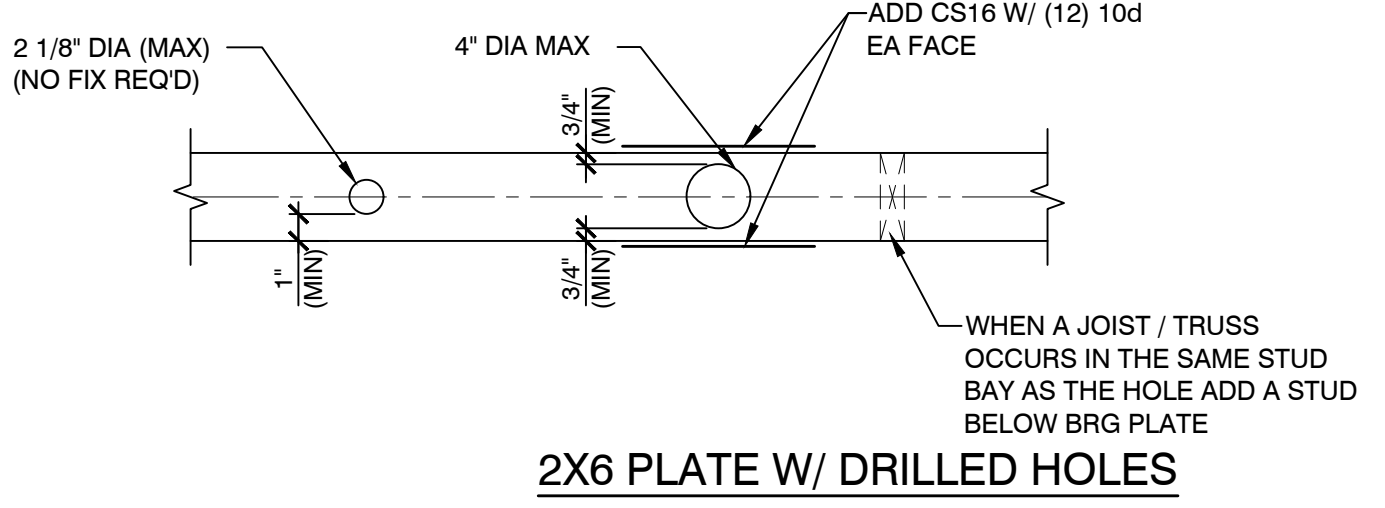
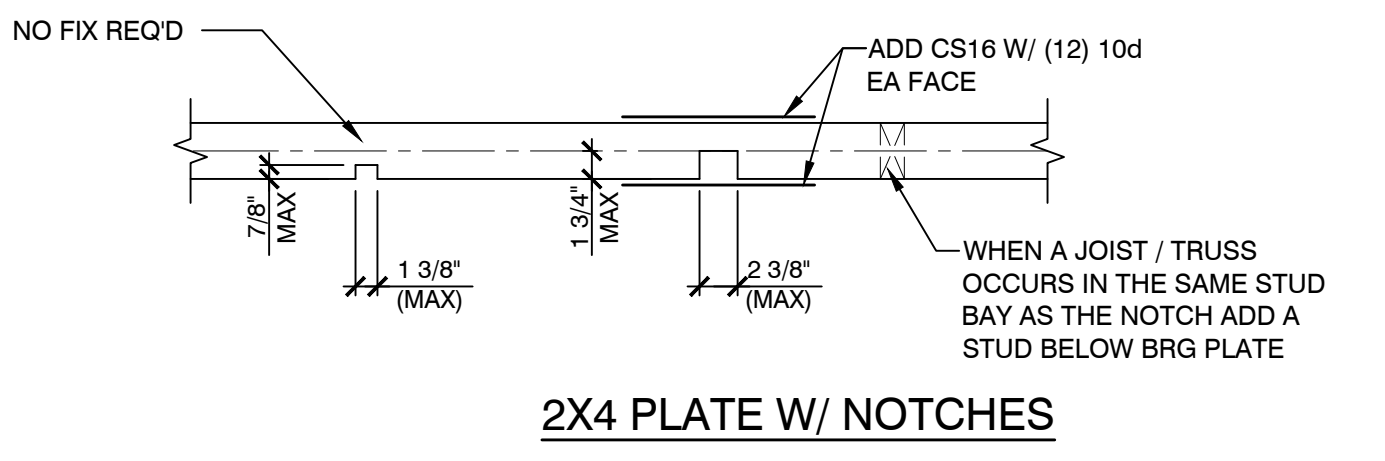
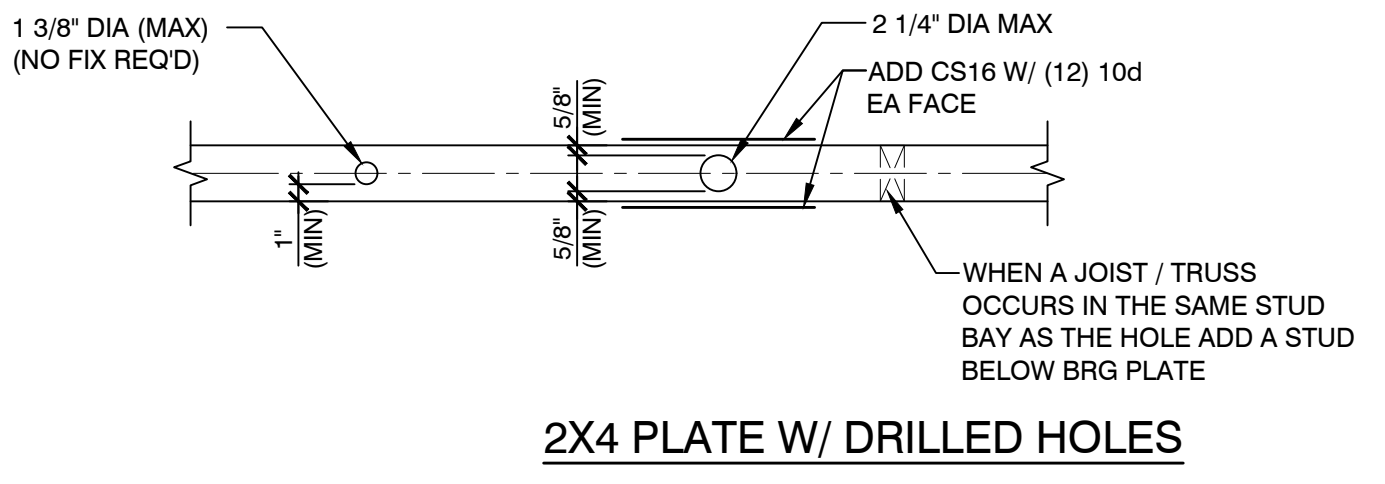
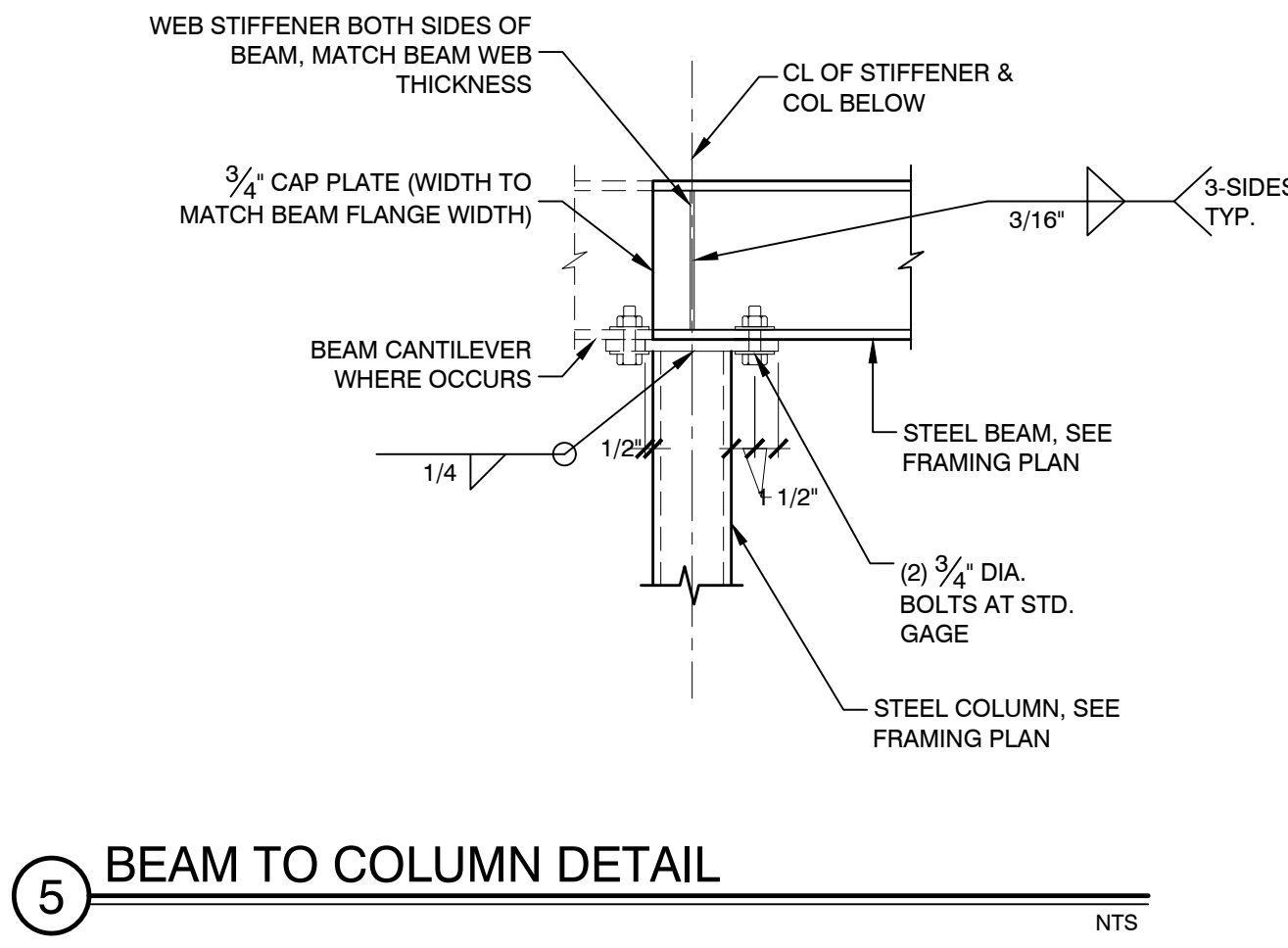
PROJECT: SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave., Las Vegas, NV 89106  
 SHEET TITLE: STRUCTURAL DETAILS

BUILDING PERMIT PACKAGE  
 04-25-2024

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	PLAN REVIEW	07.12.2024	

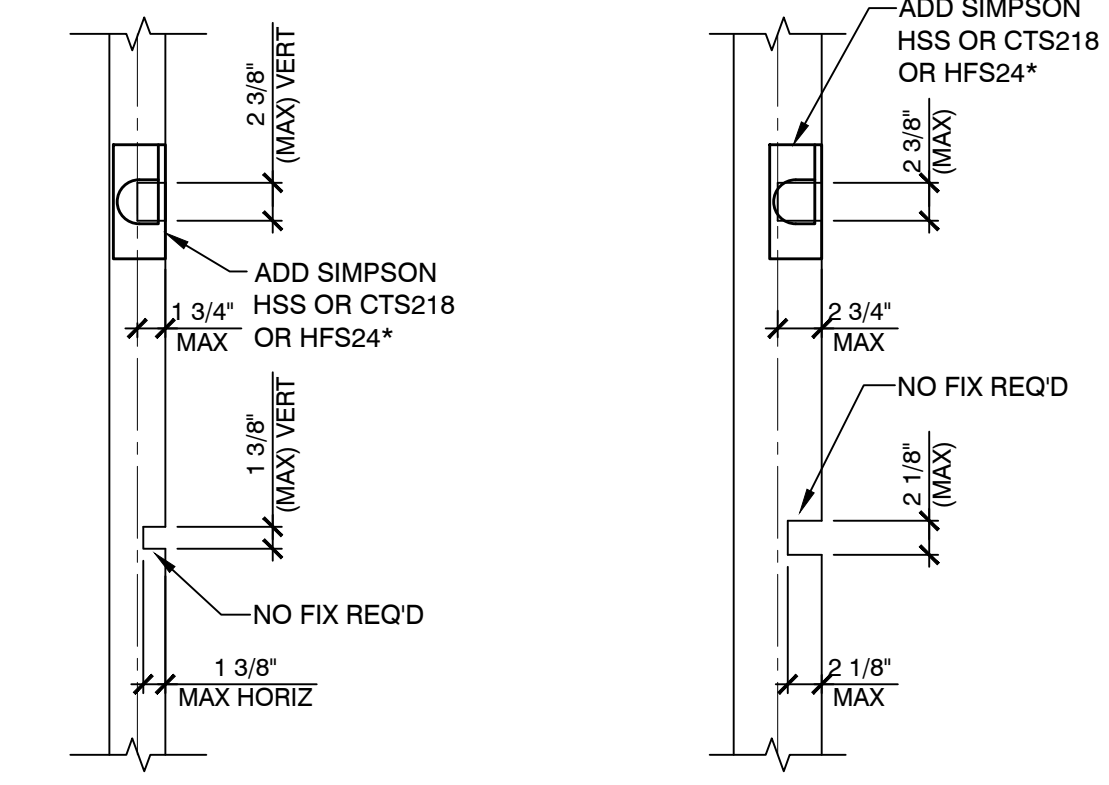
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 DATE: 04/25/2024  
 JOB NO: 729-086-241  
 SCALE: AS INDICATED  
 SHEET

SD-2

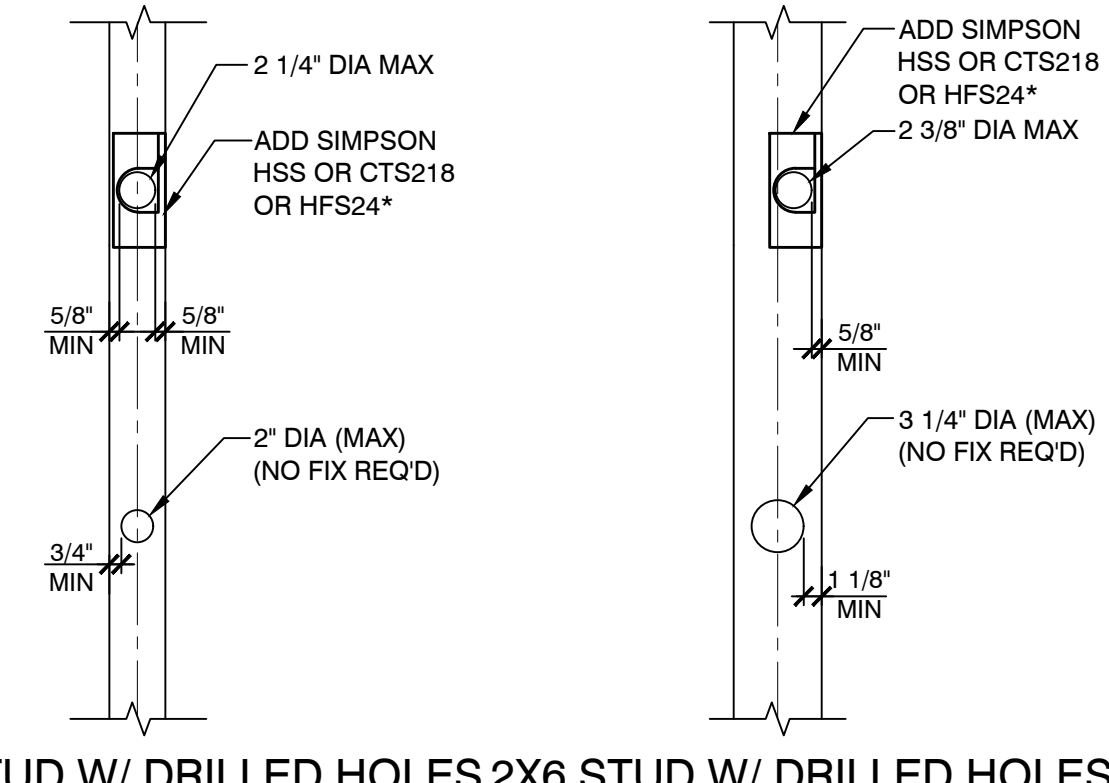


\* HARDWARE MANUFACTURED BY HARDY FRAMES SEE IMFR PRODUCT CATALOG

3 ALLOWABLE HOLES AND NOTCHES IN PLATES NTS  
INTERIOR WALLS (BEARING AND NON-BEARING)

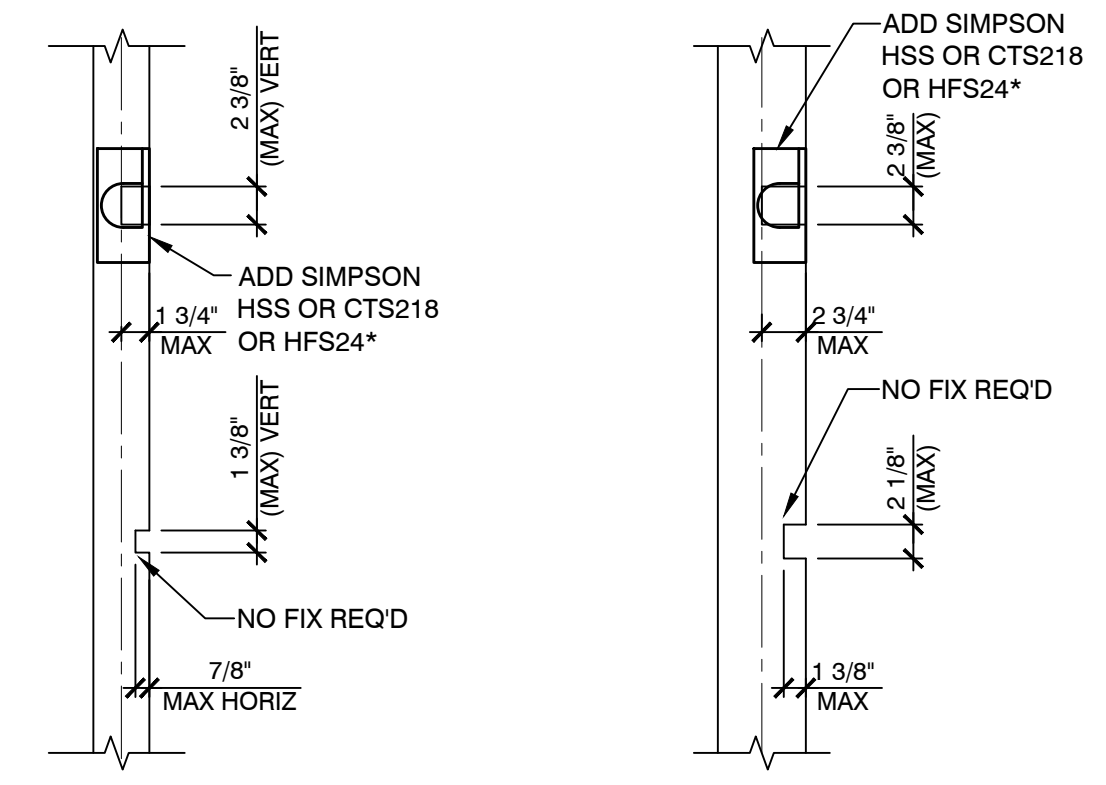


2X4 STUD W/ NOTCHES 2X6 STUD W/ NOTCHES

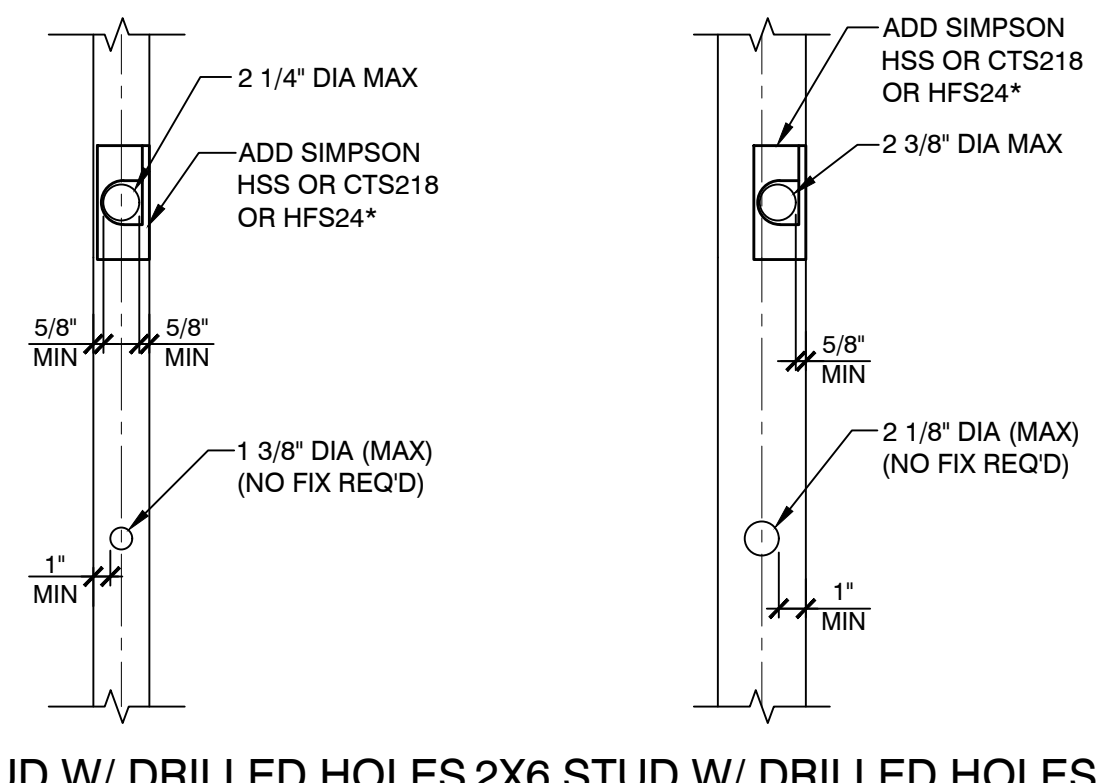


2X4 STUD W/ DRILLED HOLES 2X6 STUD W/ DRILLED HOLES

1 ALLOWABLE HOLES AND NOTCHES IN PLATES NTS  
EXTERIOR WALLS AND INTERIOR SHEAR WALLS



2X4 STUD W/ NOTCHES 2X6 STUD W/ NOTCHES



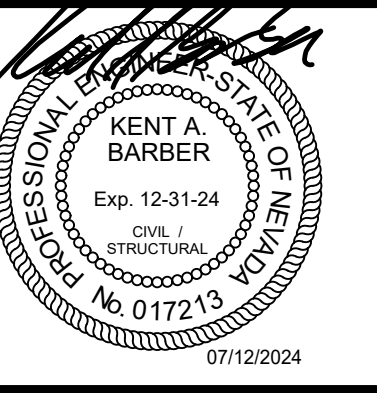
2X4 STUD W/ DRILLED HOLES 2X6 STUD W/ DRILLED HOLES

4 ALLOWABLE HOLES AND NOTCHES IN STUDS NTS  
INTERIOR NON-BEARING WALLS

2 ALLOWABLE HOLES AND NOTCHES IN STUDS NTS  
EXTERIOR WALLS, INTERIOR SHEAR WALLS AND INTERIOR BEARING WALLS



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
Fax: 702.888.2089  
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PROJECT: SNRHA BENNETT PLAZA PHASE II

SHEET TITLE: STRUCTURAL DETAILS

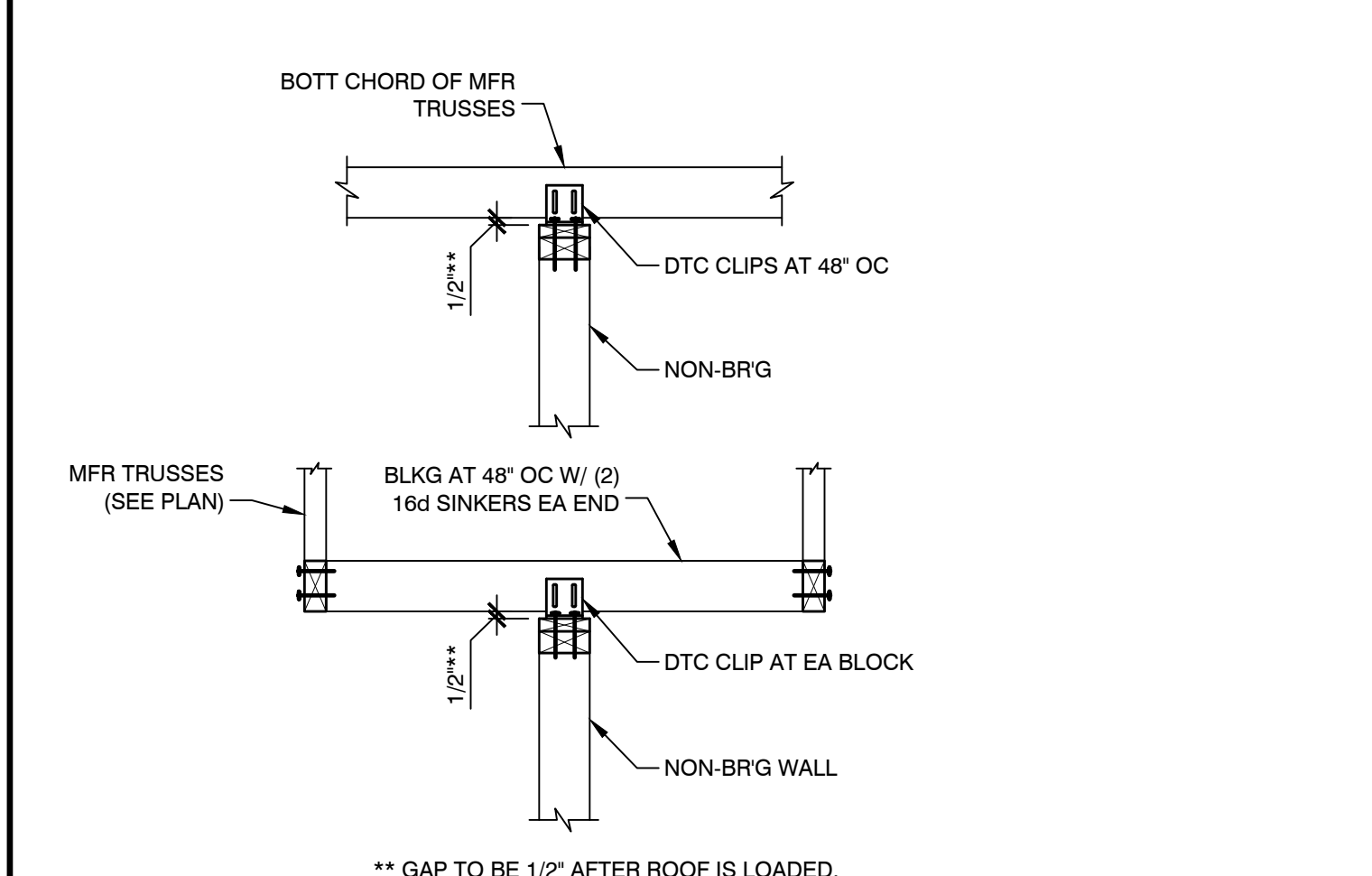
BUILDING PERMIT PACKAGE  
04-25-2024

REVISIONS		
1	PLAN REVIEW	07.12.2024

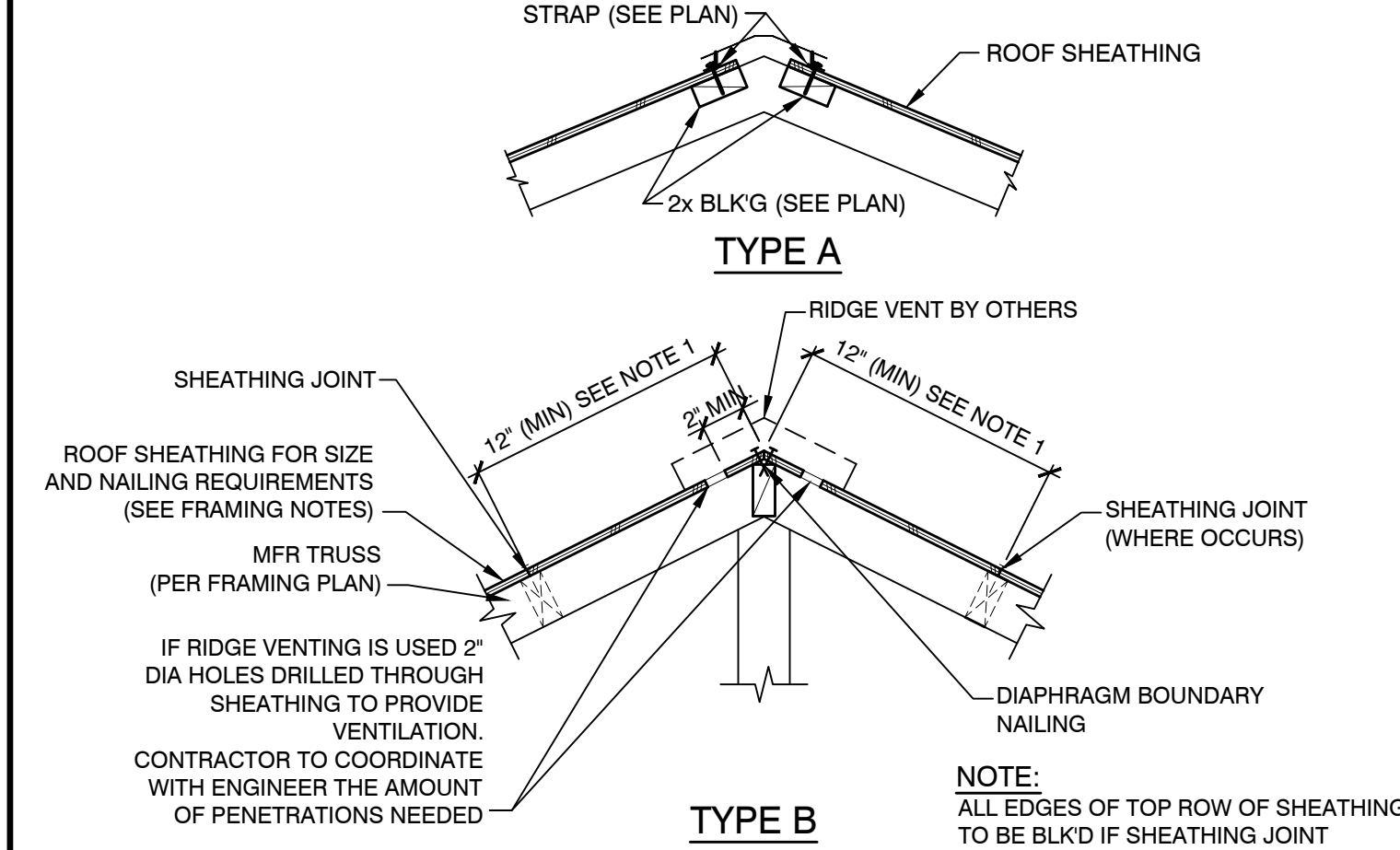
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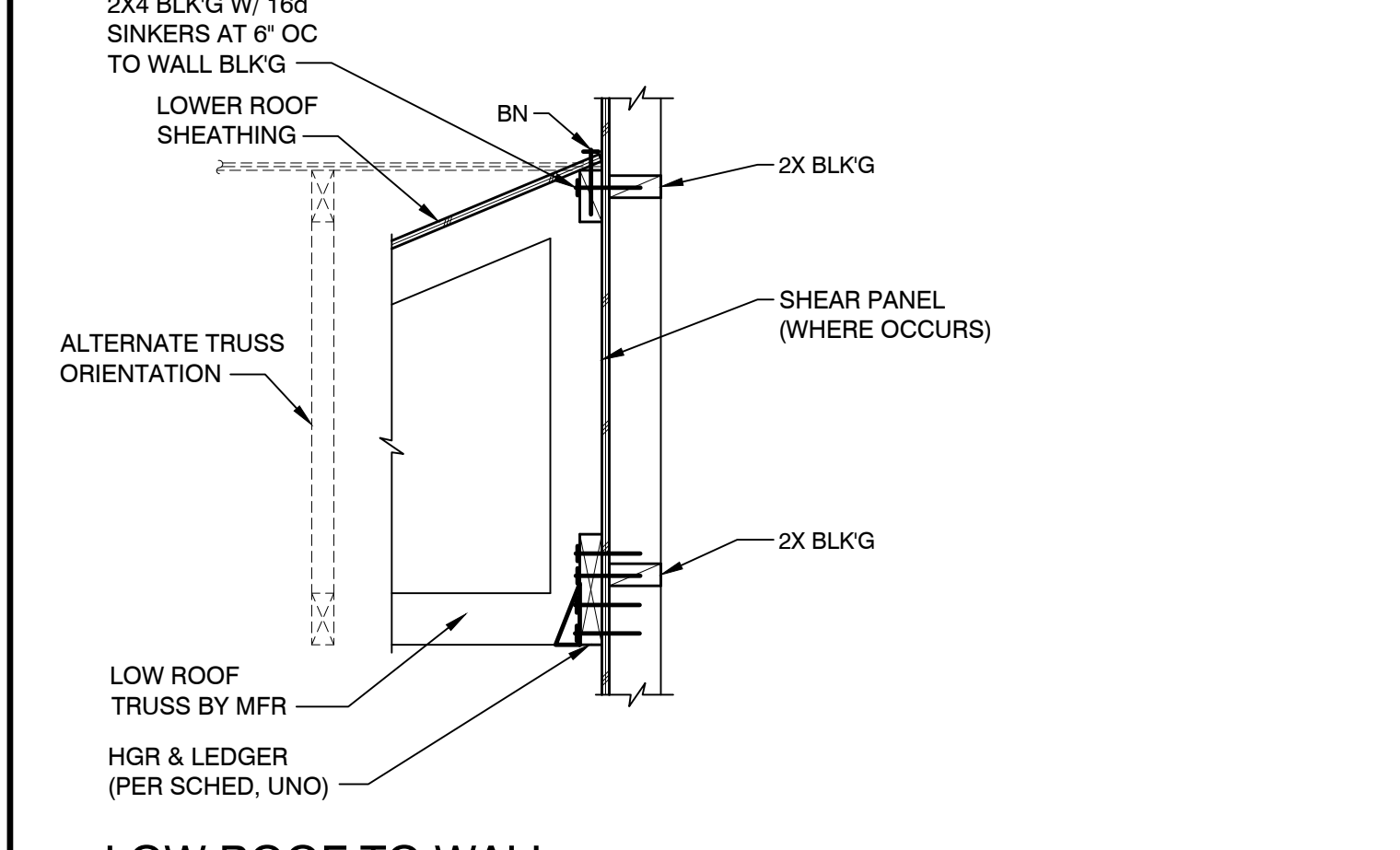
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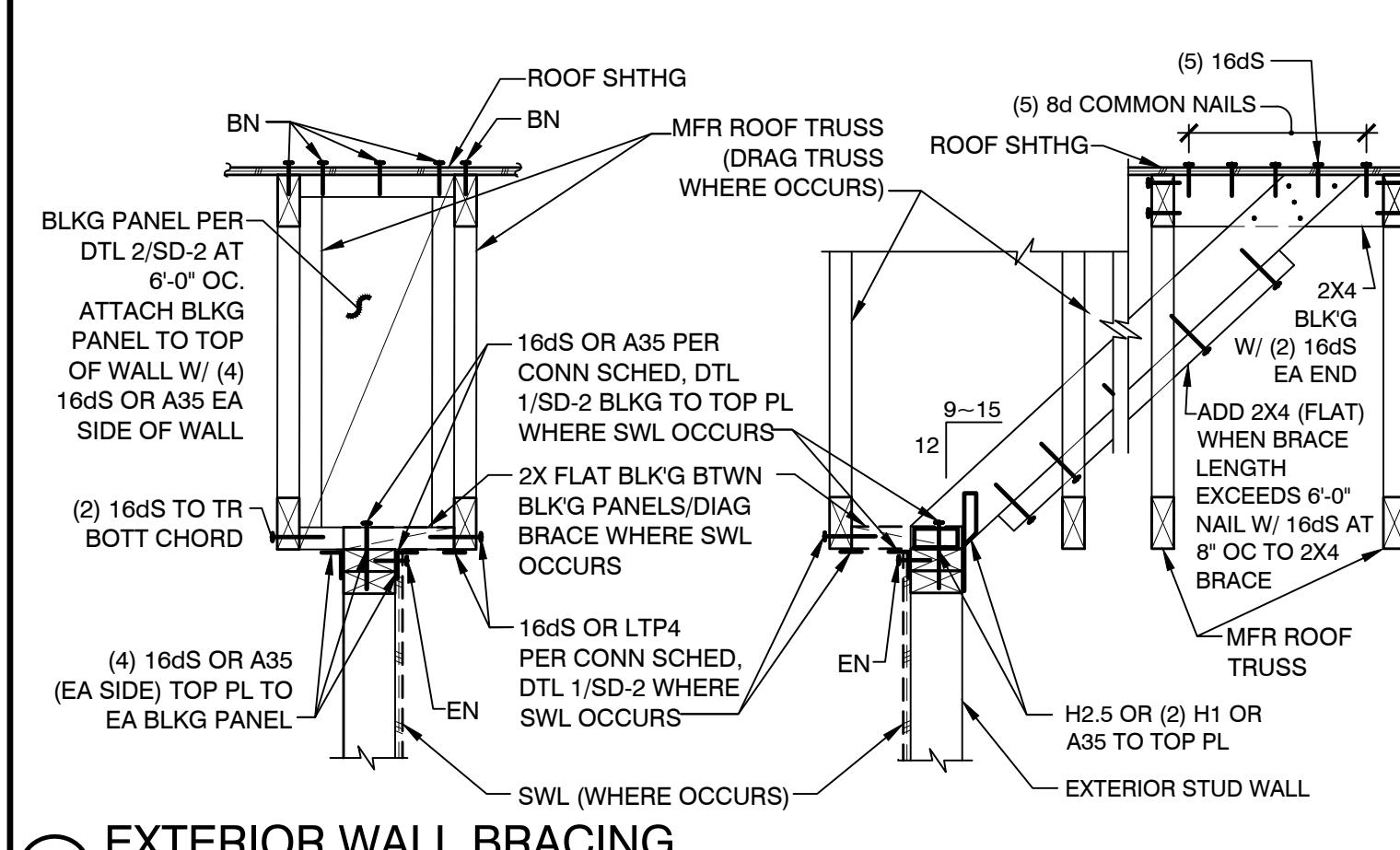
**11 BRACING AT NON-BRG WALLS** NTS



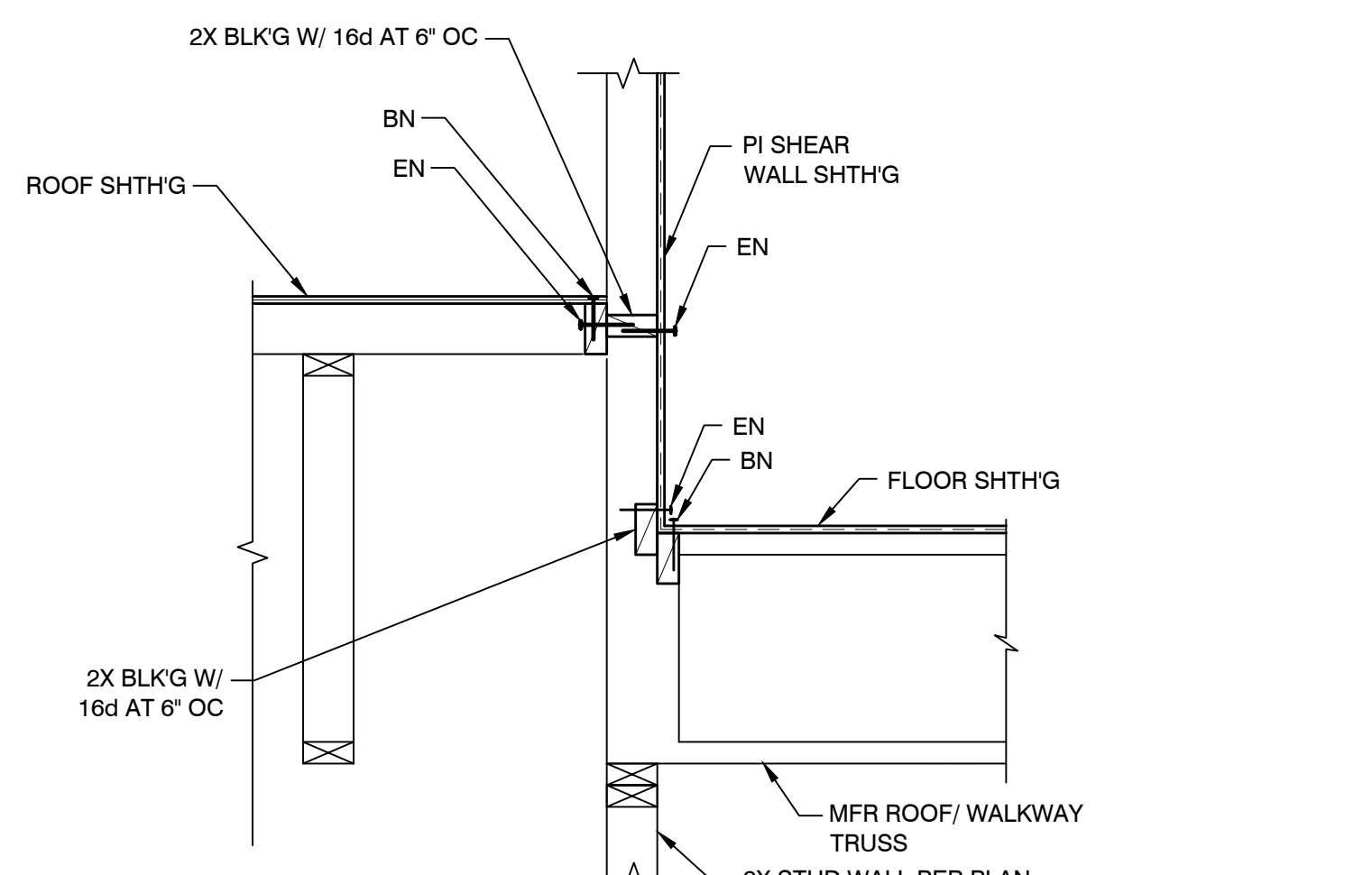
**12 RIDGE BLOCKING** NTS



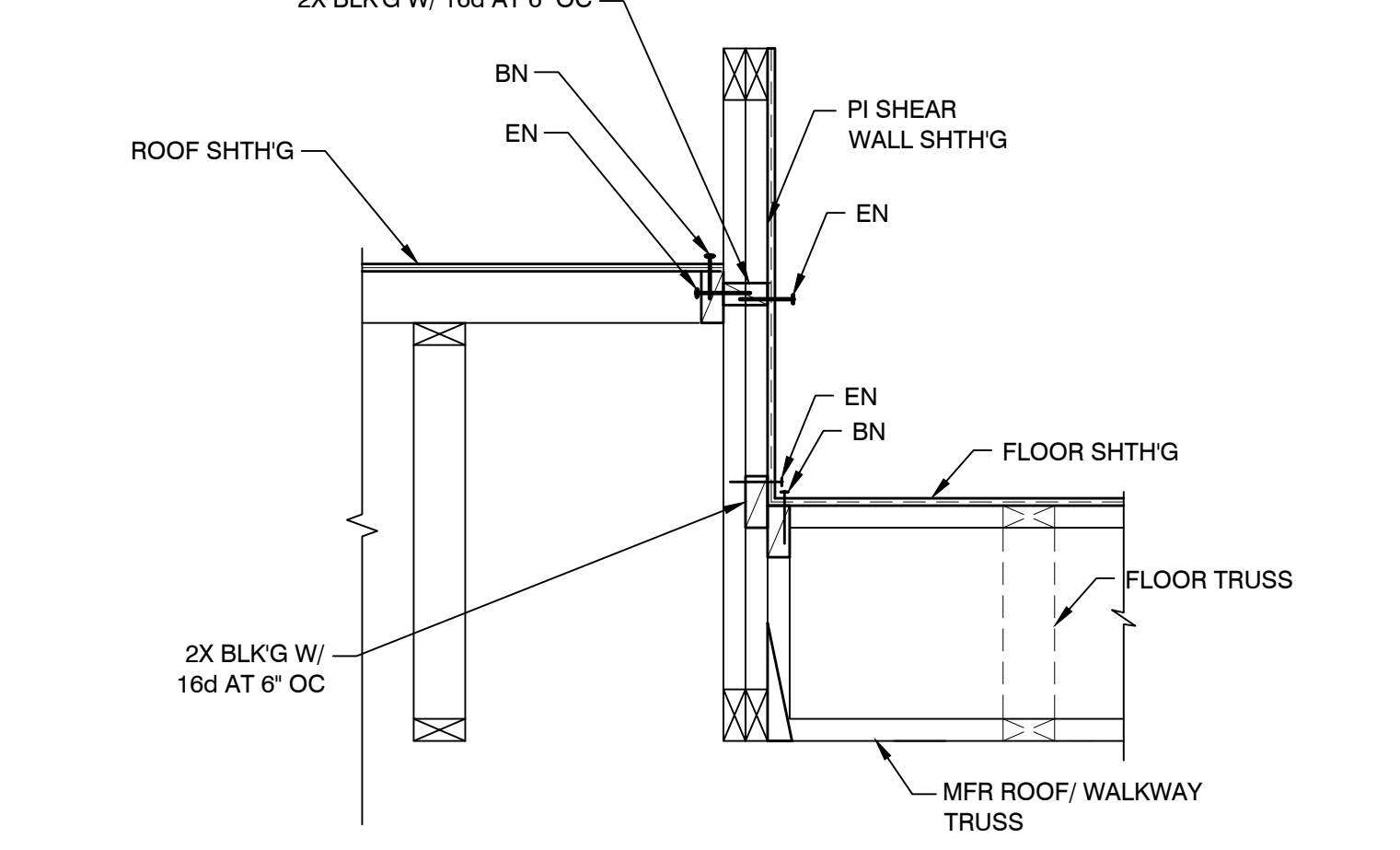
**13 LOW ROOF TO WALL** NTS



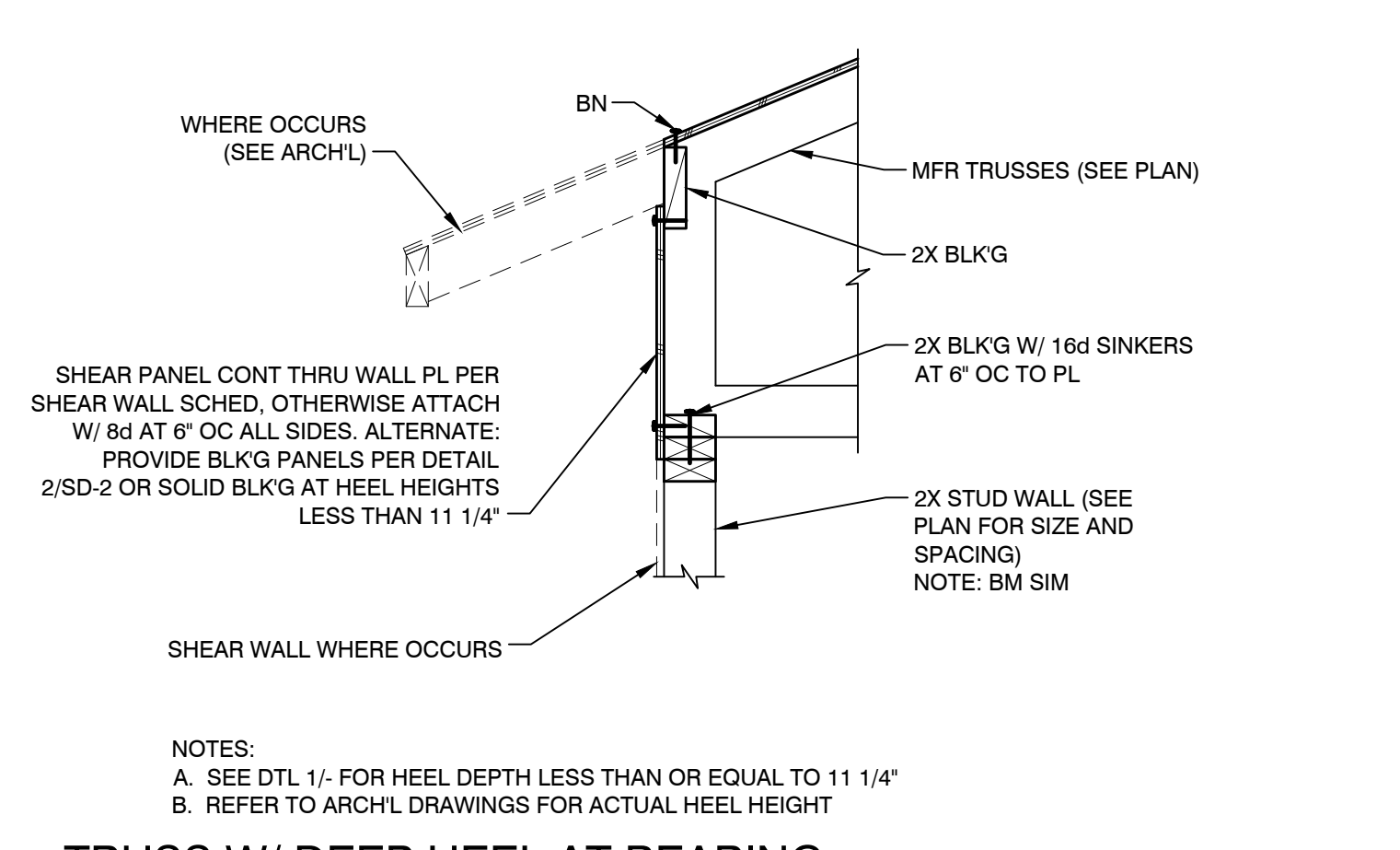
**14 EXTERIOR WALL BRACING** NTS



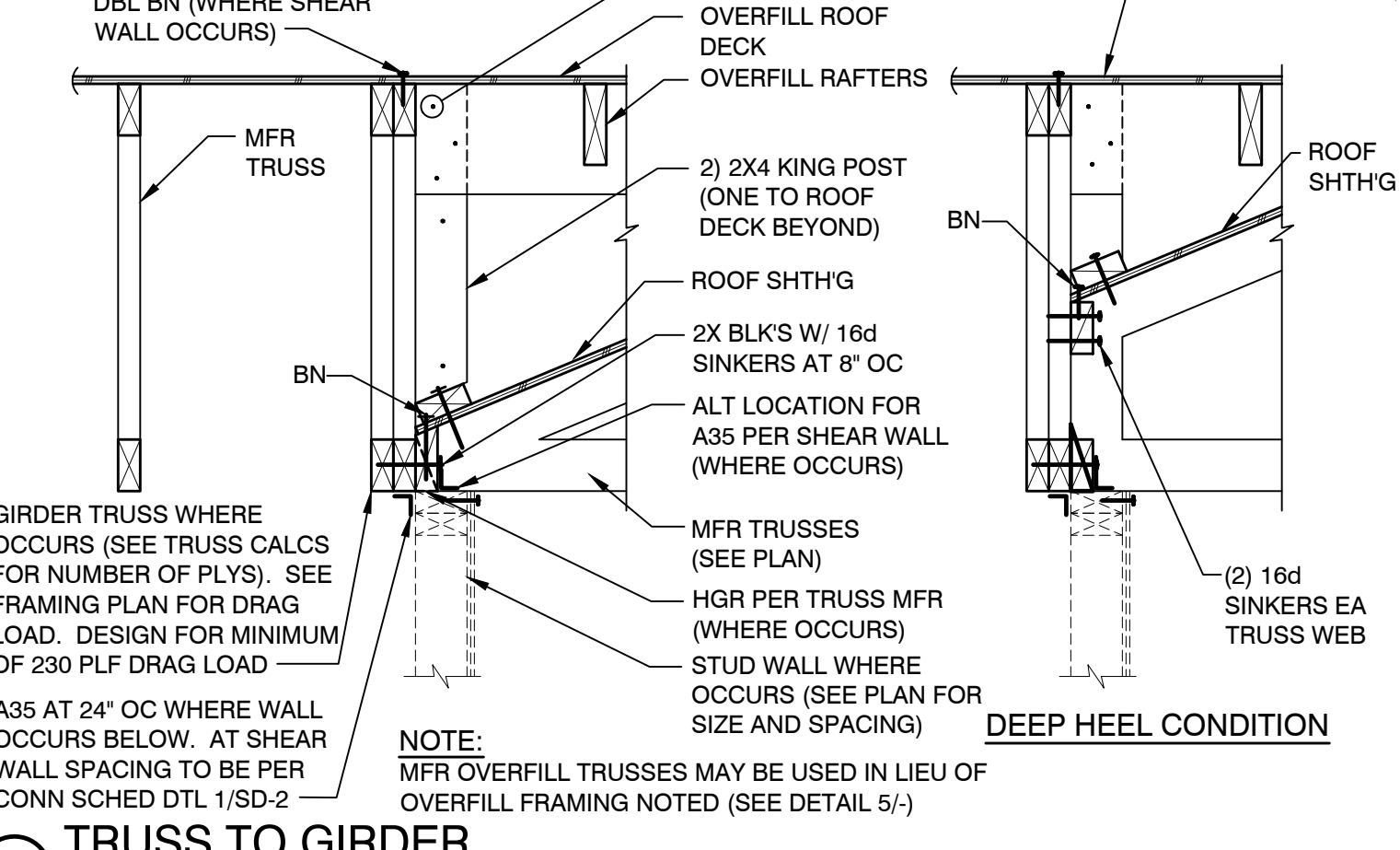
**6B STEP IN ROOF** NTS



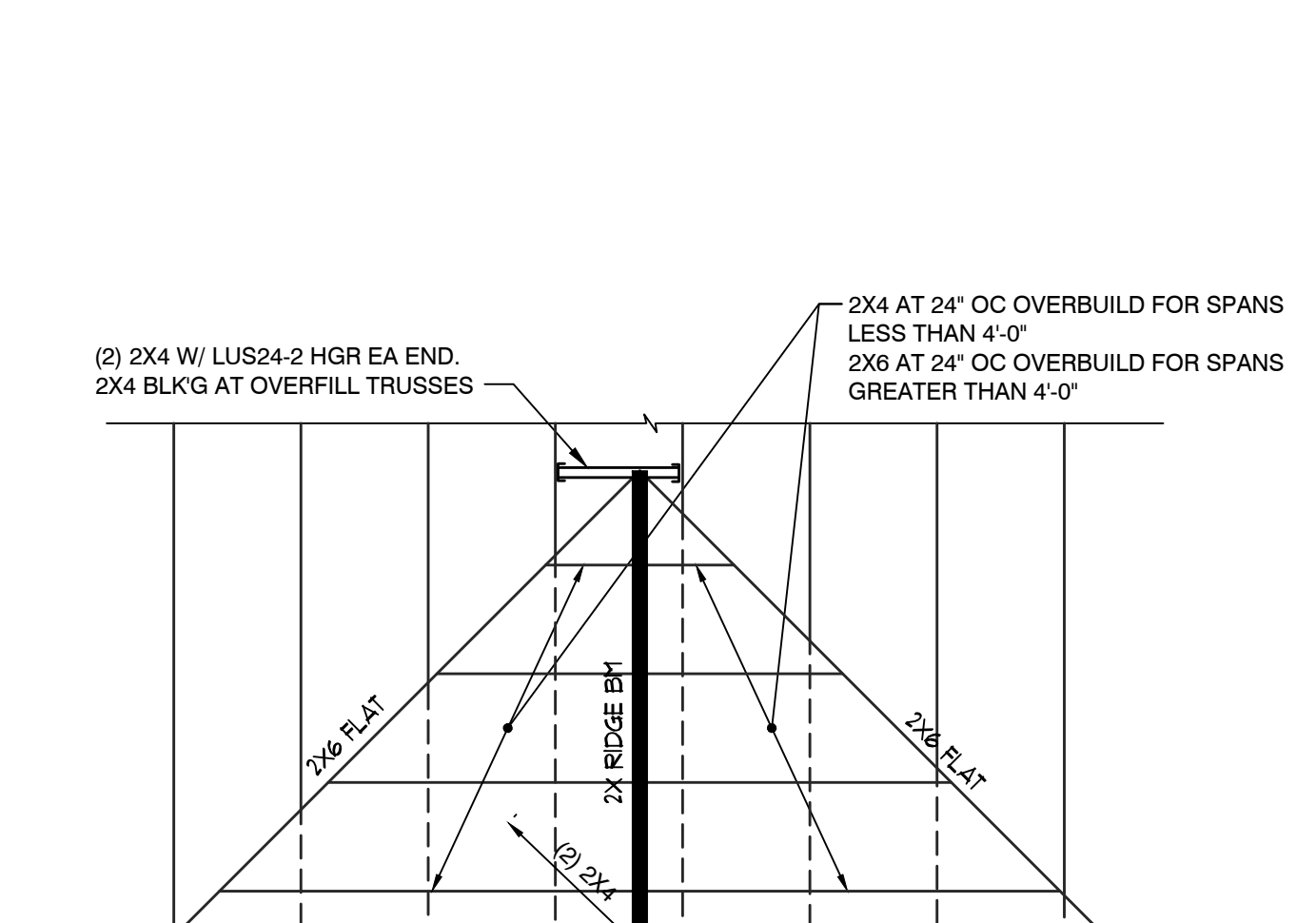
**6C STEP IN ROOF** NTS



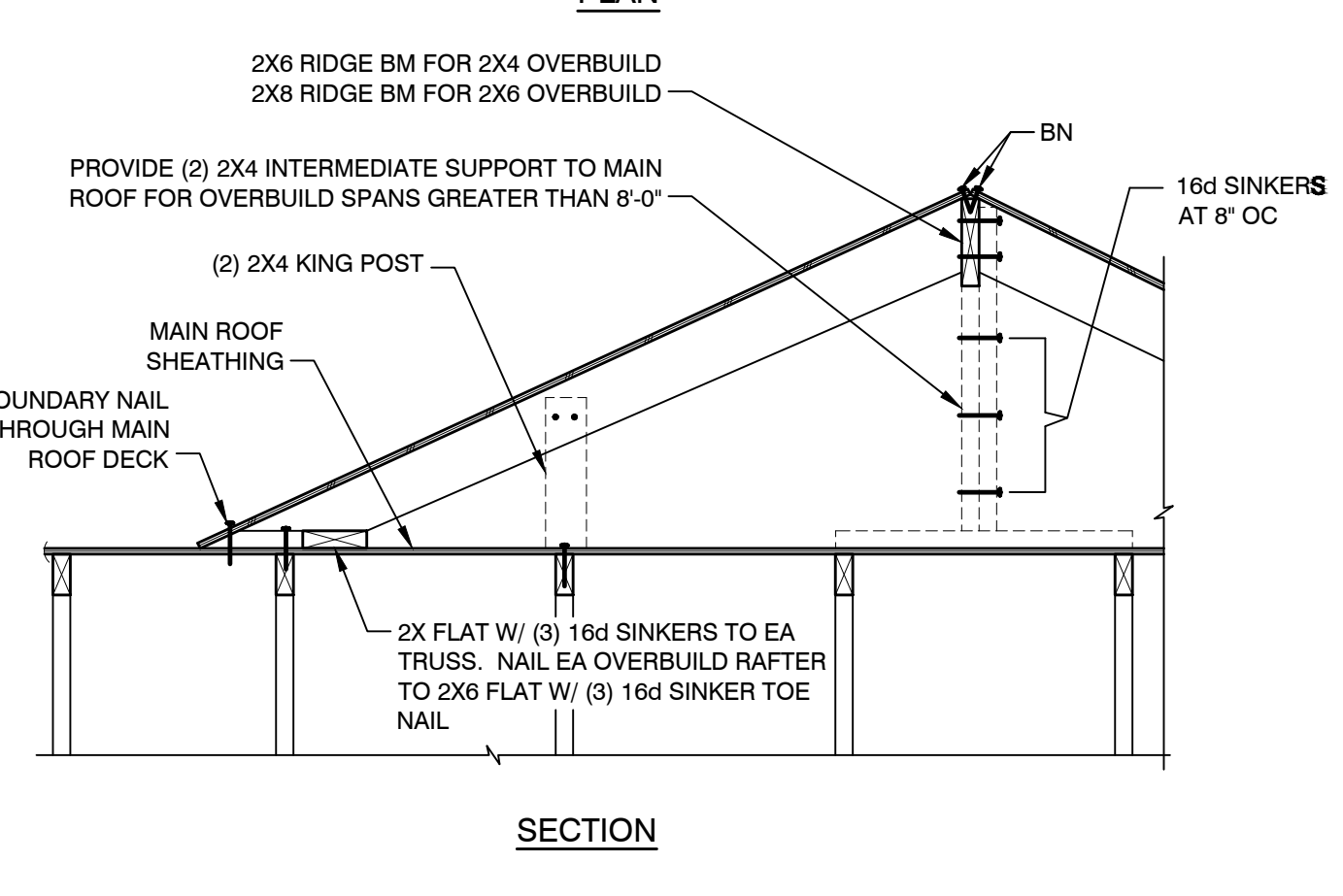
**9 TRUSS W/ DEEP HEEL AT BEARING** NTS



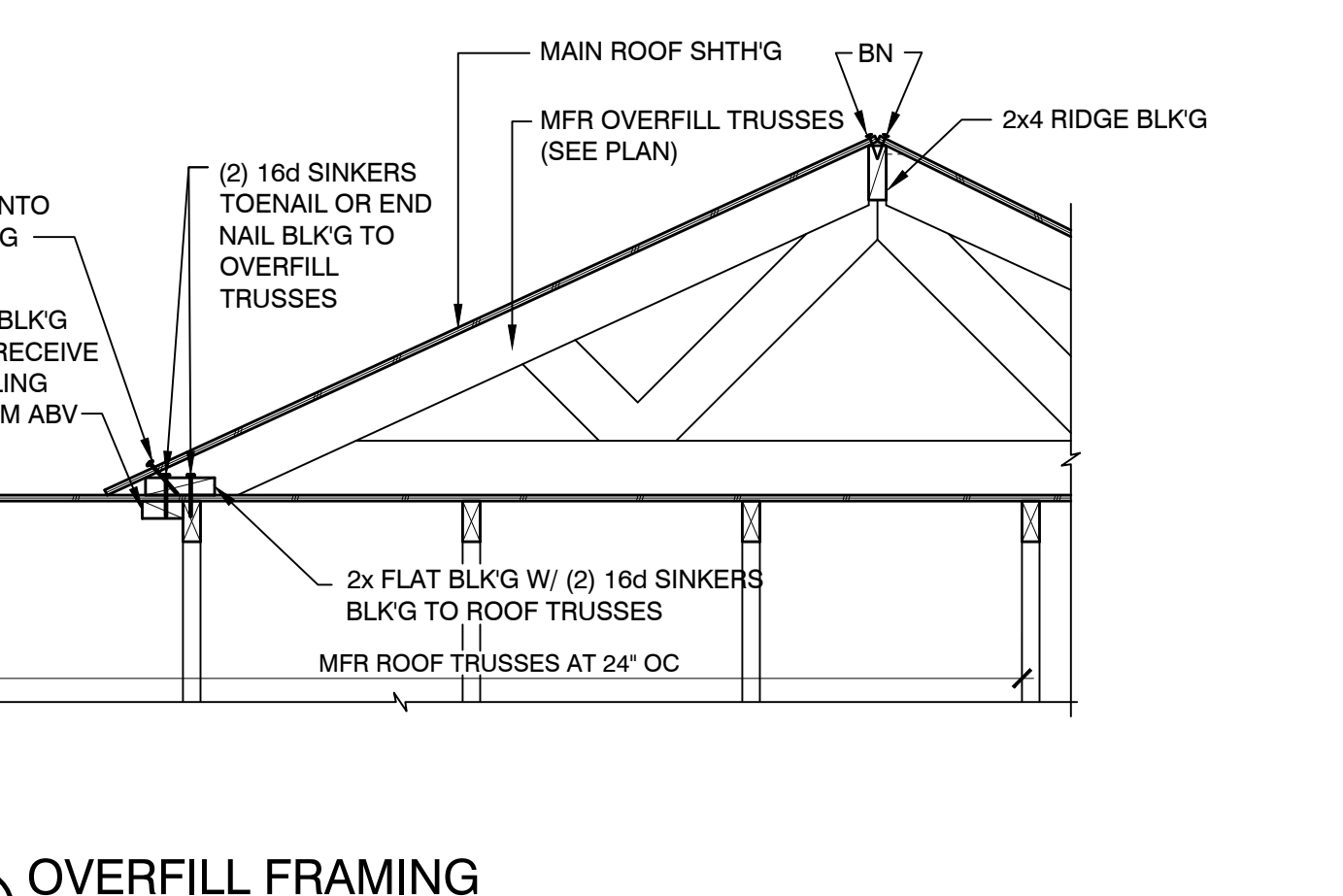
**10 TRUSS TO GIRDER** NTS



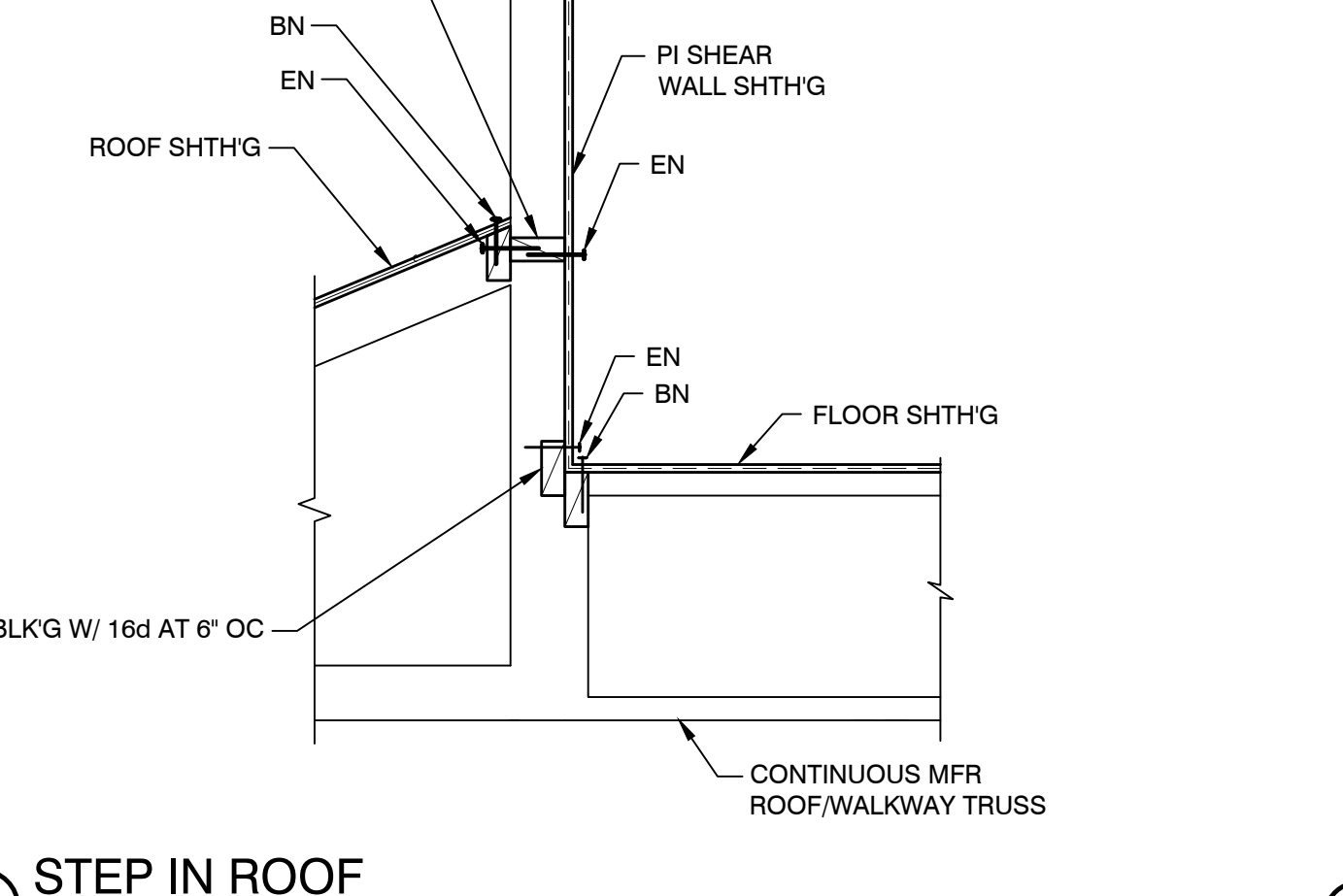
**1 EAVE CONDITION** NTS



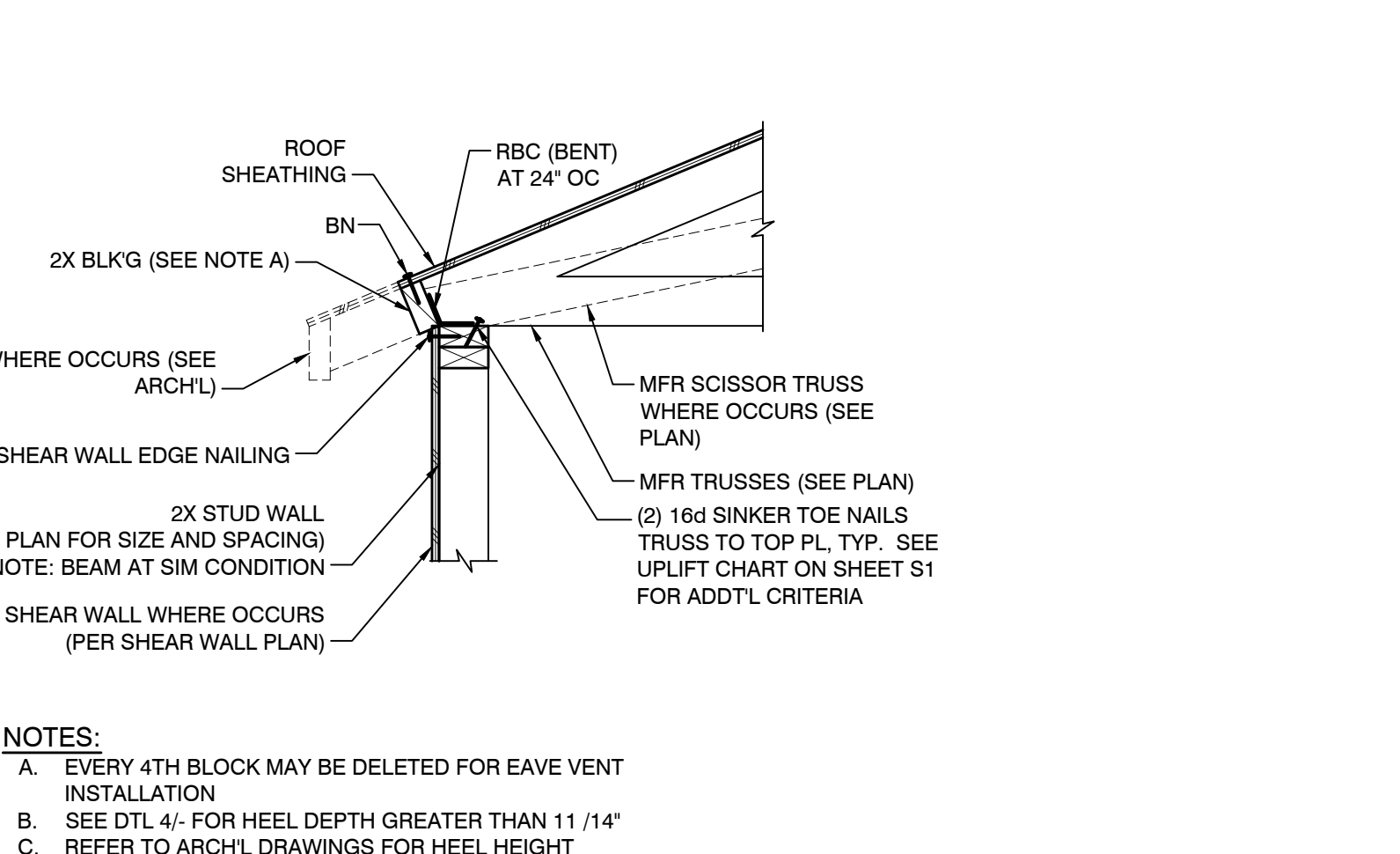
**4 OVERFILL FRAMING** NTS



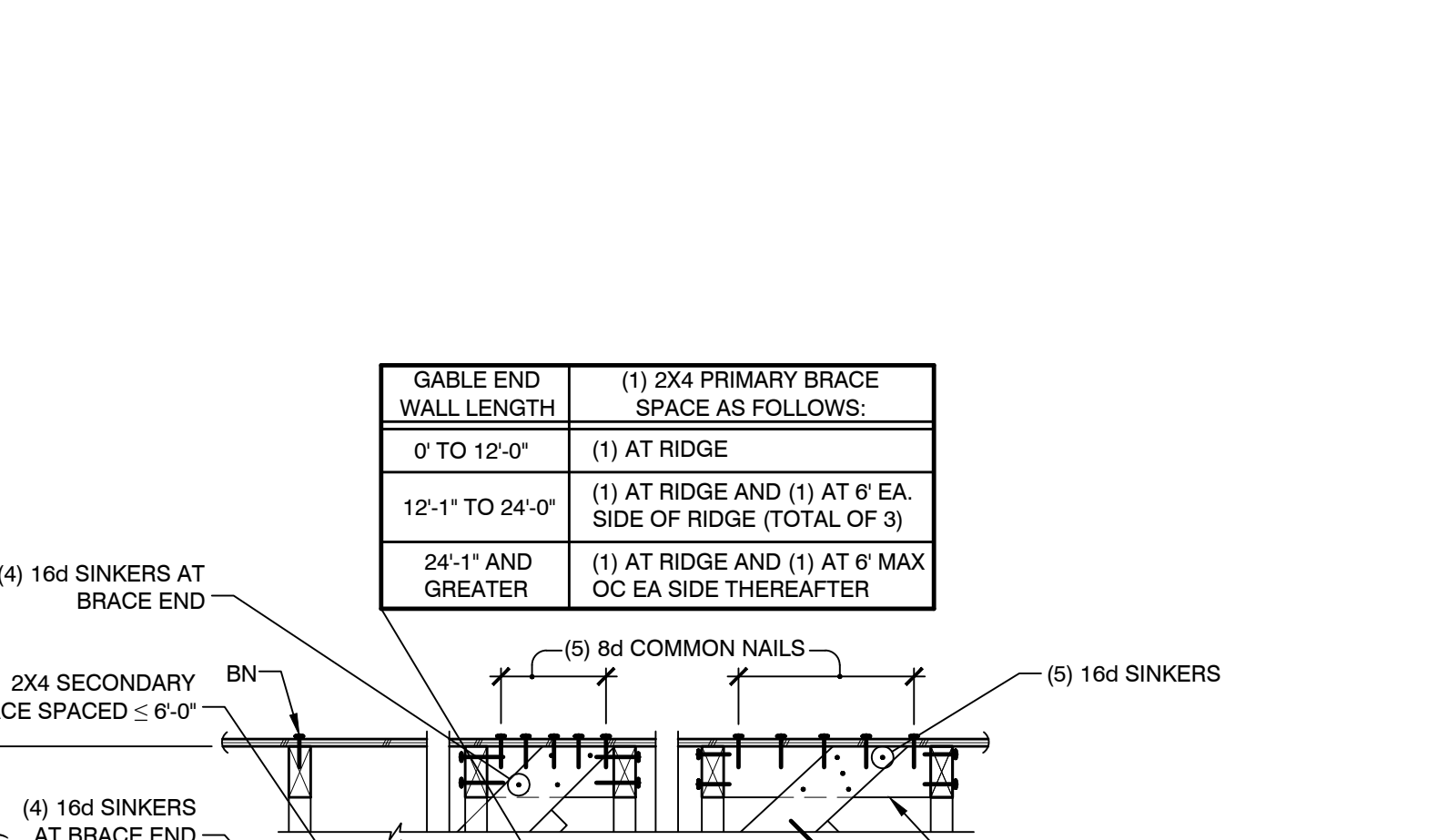
**5 OVERFILL FRAMING** NTS



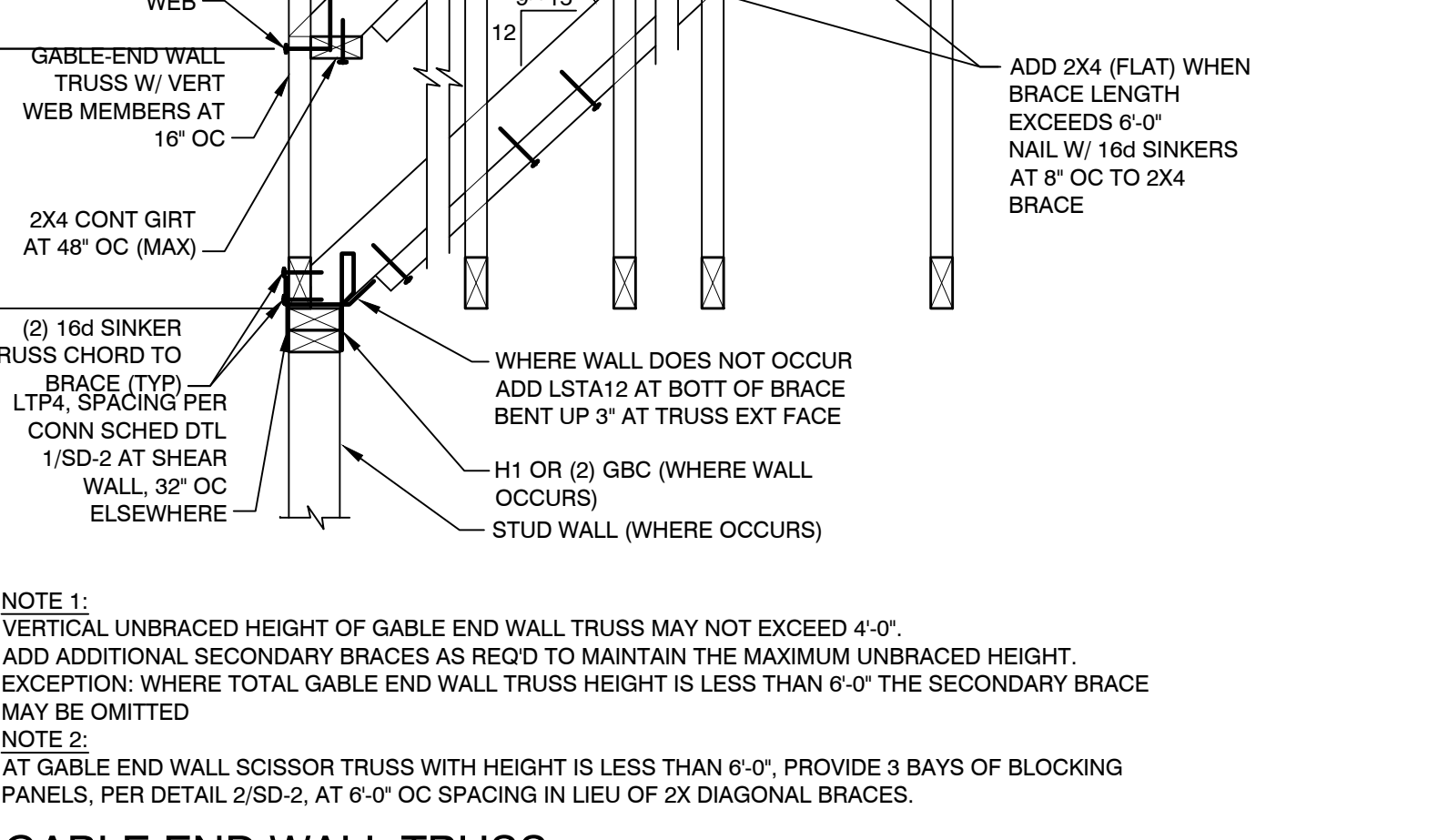
**6A STEP IN ROOF** NTS



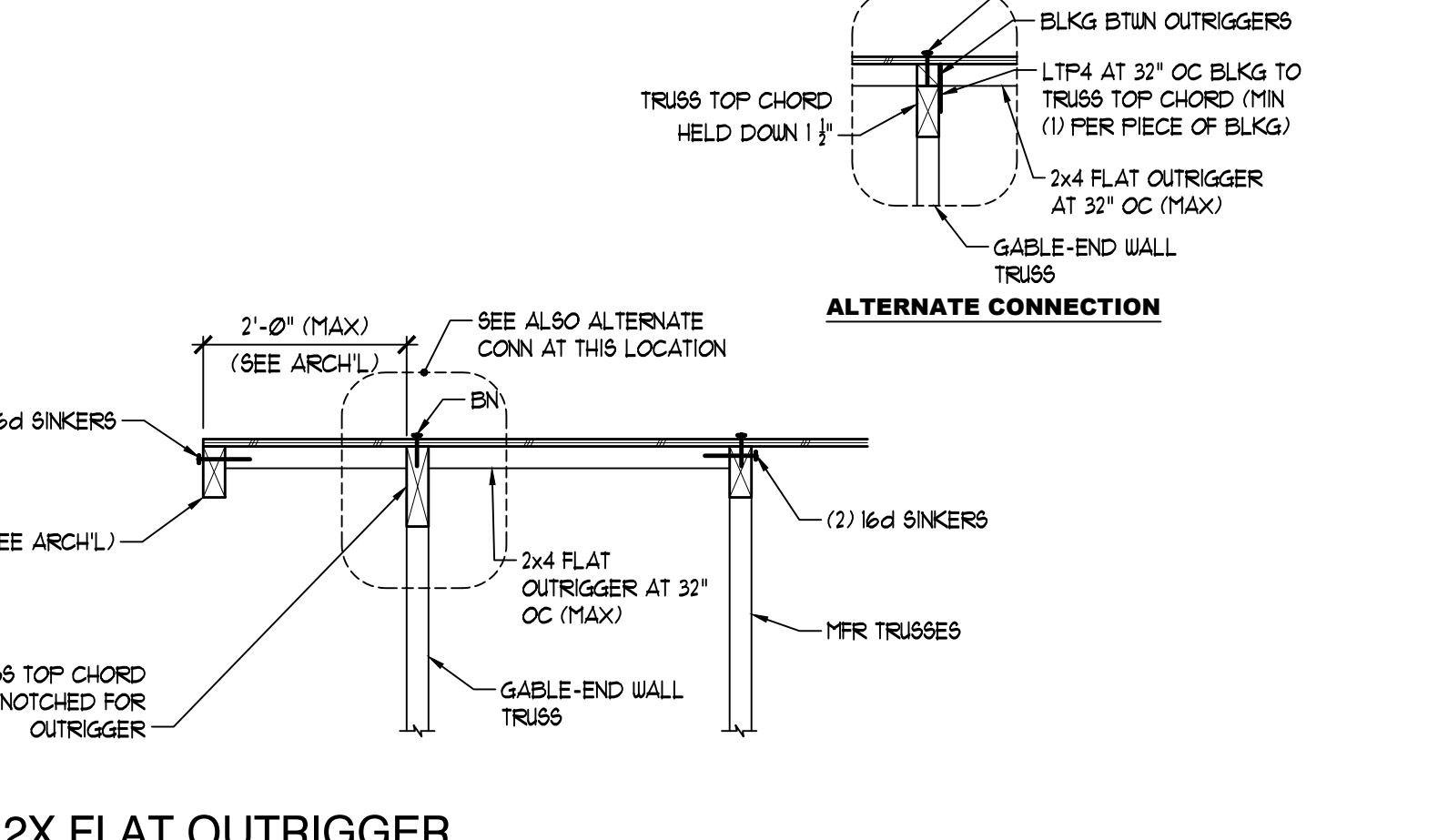
**2 GABLE END WALL TRUSS** NTS



**2 GABLE END WALL TRUSS** NTS



**3 2X FLAT OUTRIGGER** NTS



**3 2X FLAT OUTRIGGER** NTS

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5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
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07/12/2024

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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT: SNRHA BENNETT PLAZA PHASE II  
SHEET TITLE: STRUCTURAL DETAILS

**BUILDING PERMIT PACKAGE**  
04-25-2024

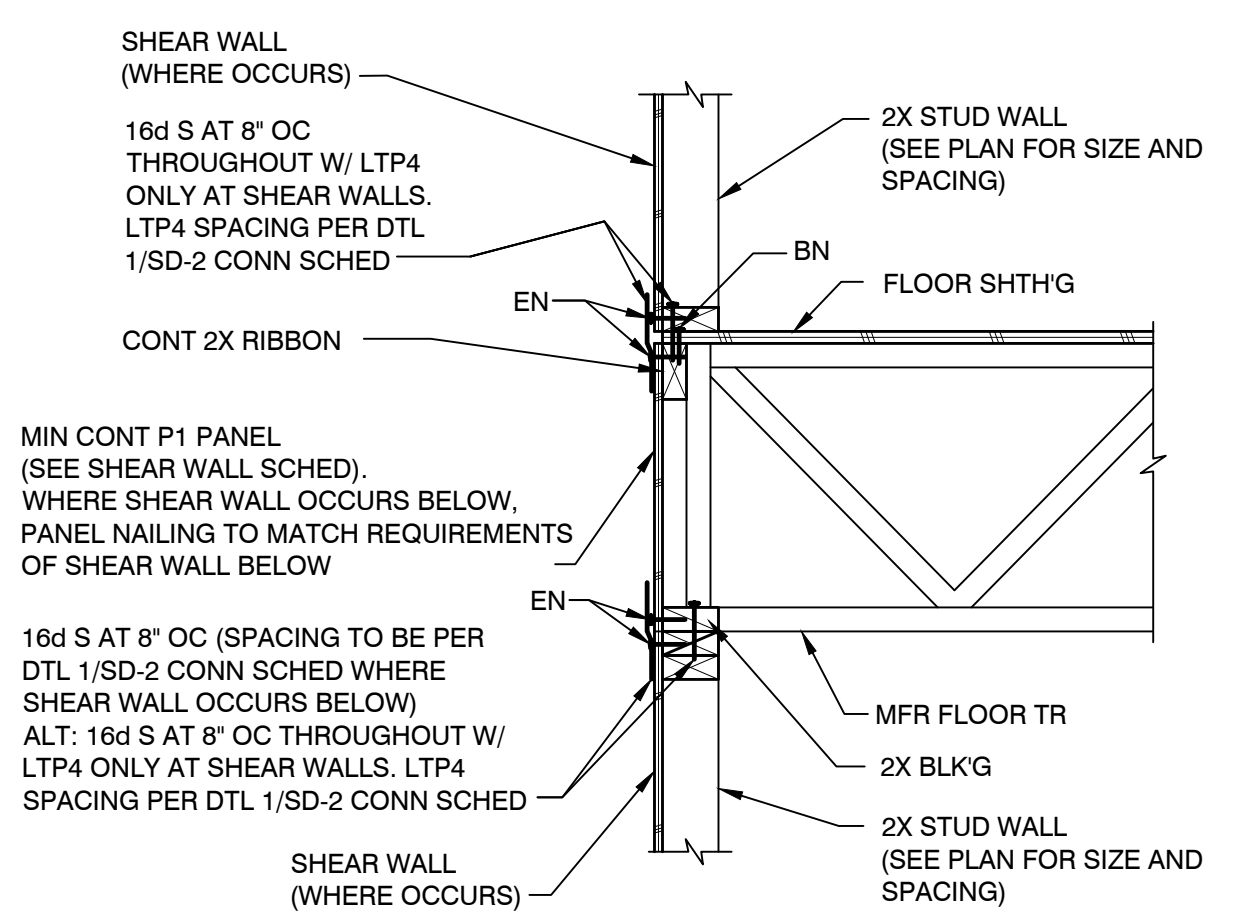
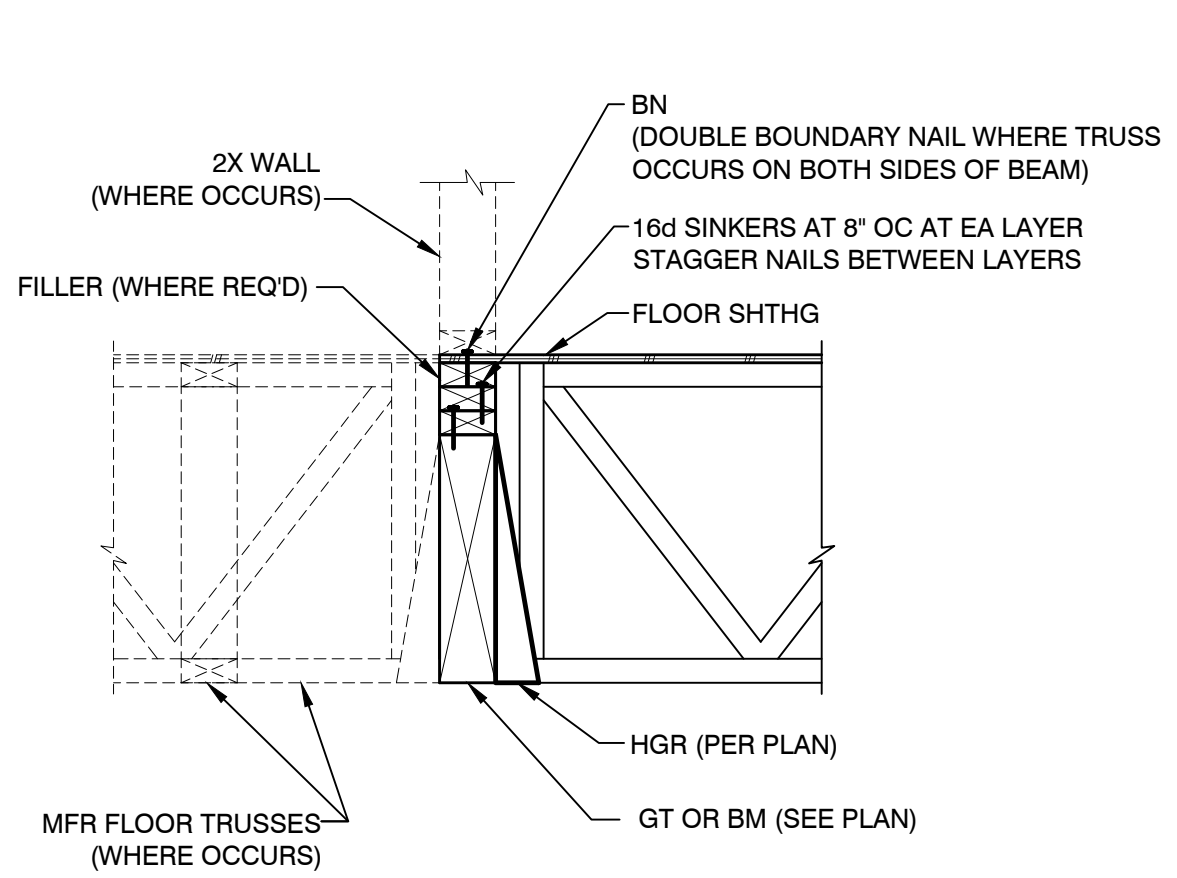
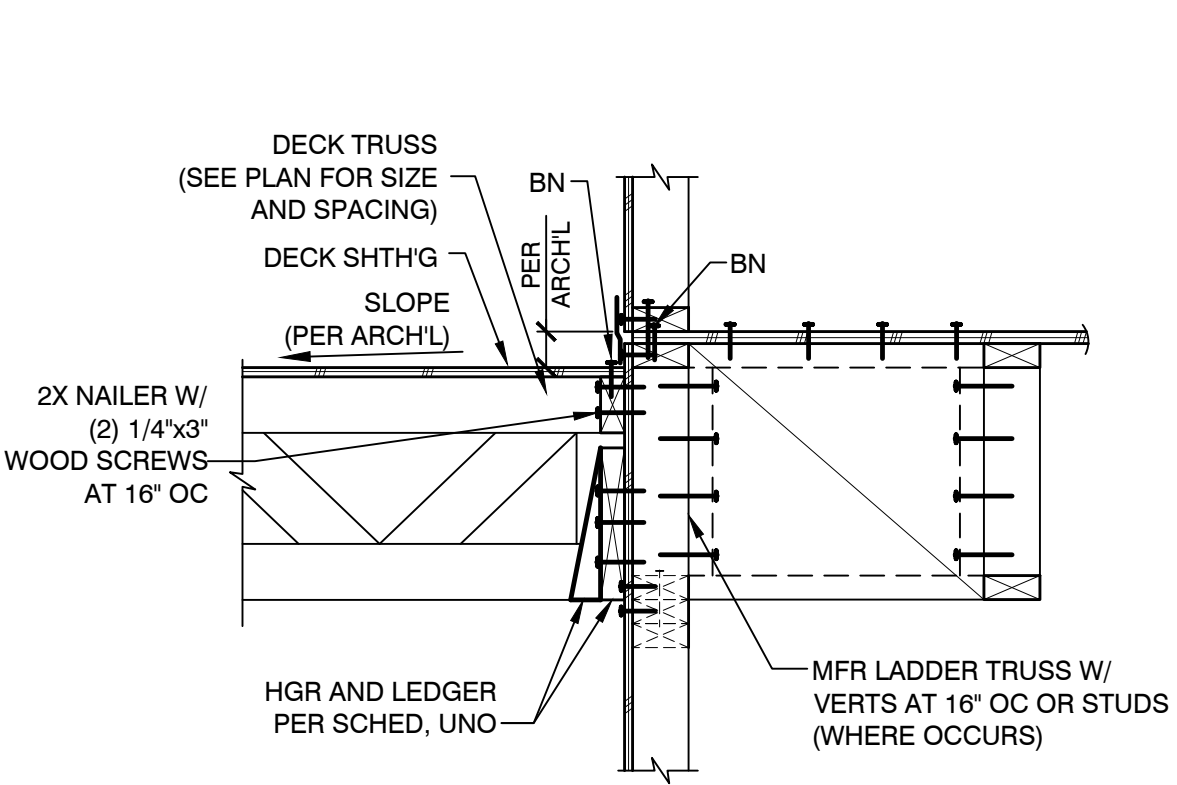
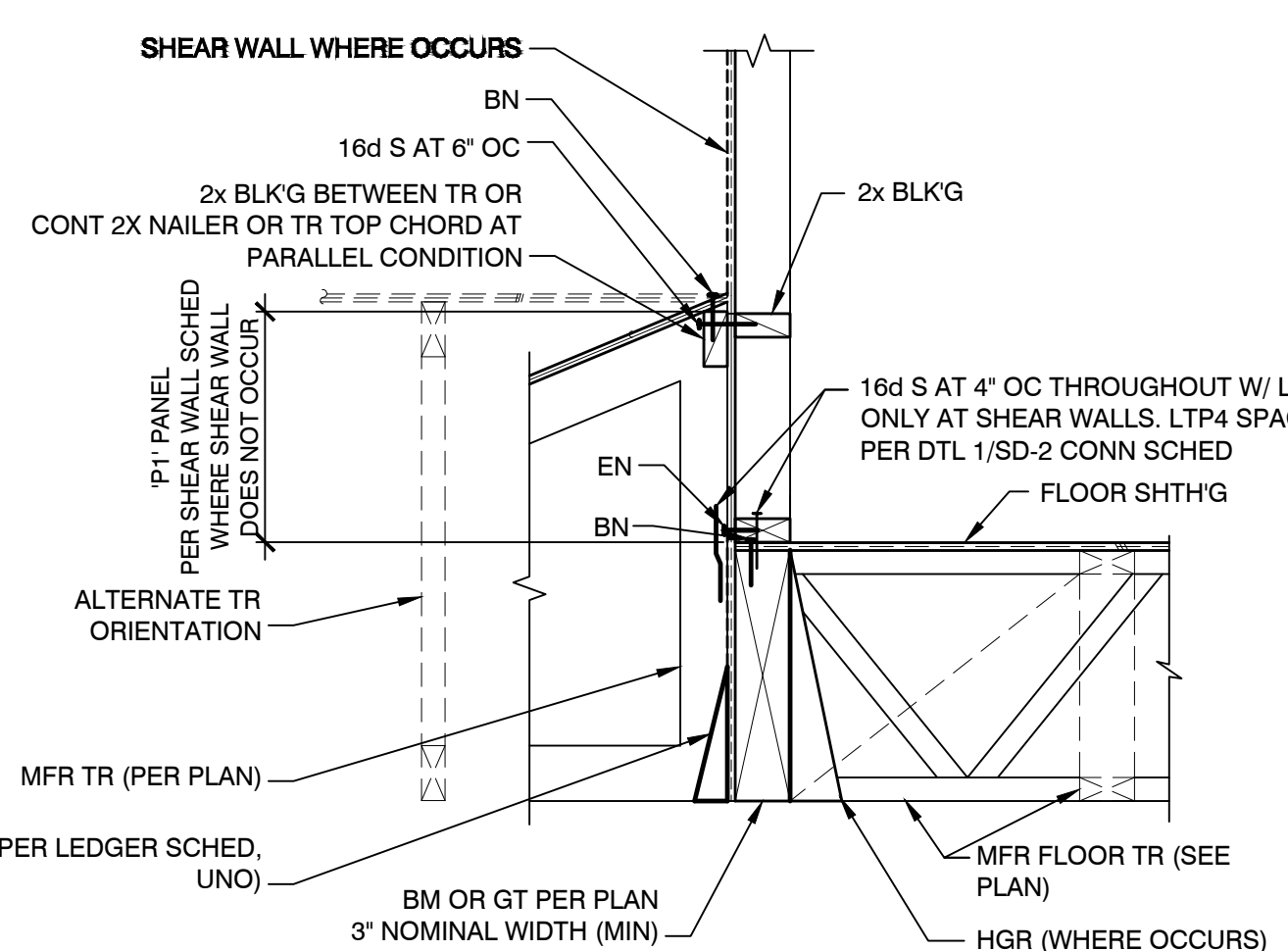
**REVISIONS**

NO.	DESCRIPTION	DATE
1	PLAN REVIEW	07.12.2024

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DATE: 04/25/2024  
JOB NO: 729-086-241  
SCALE: AS INDICATED  
SHEET

**SD-3**



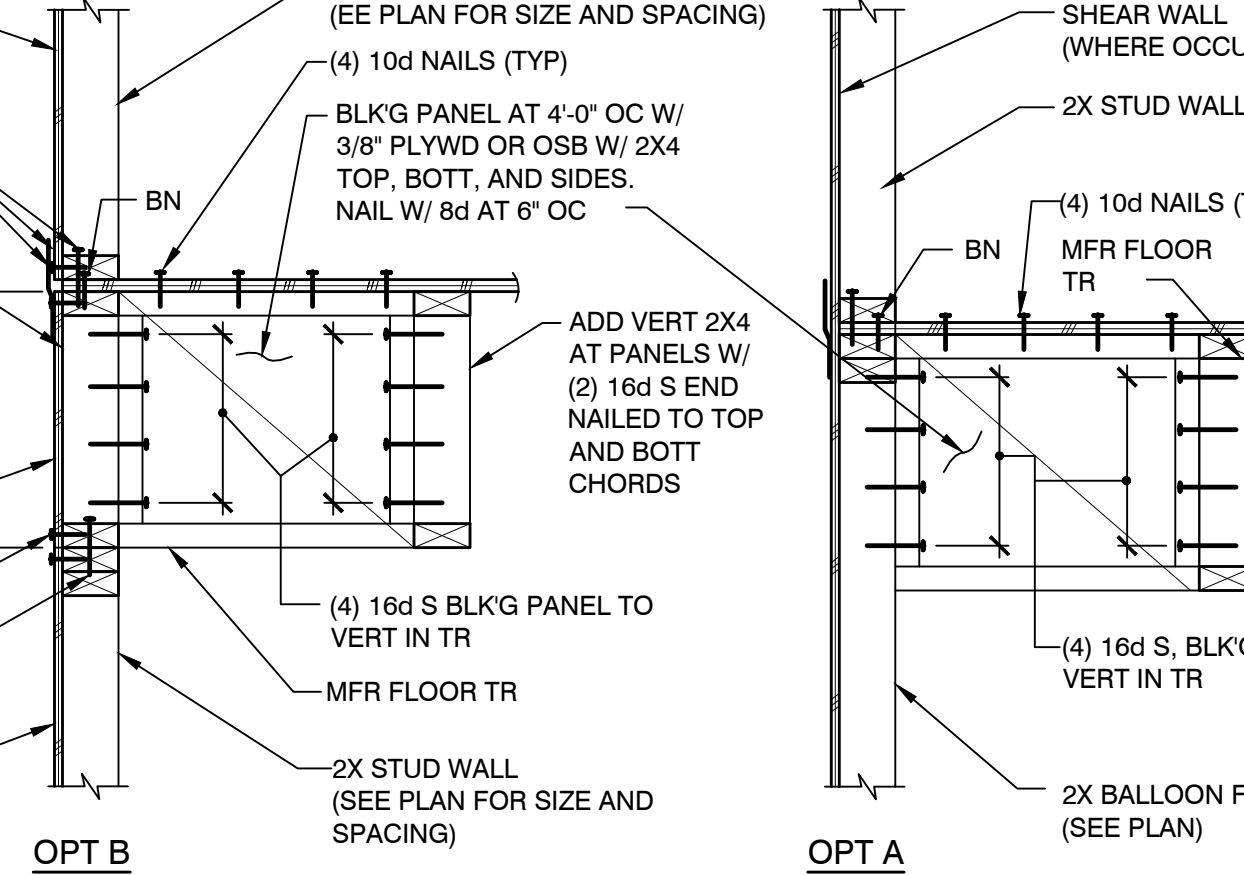
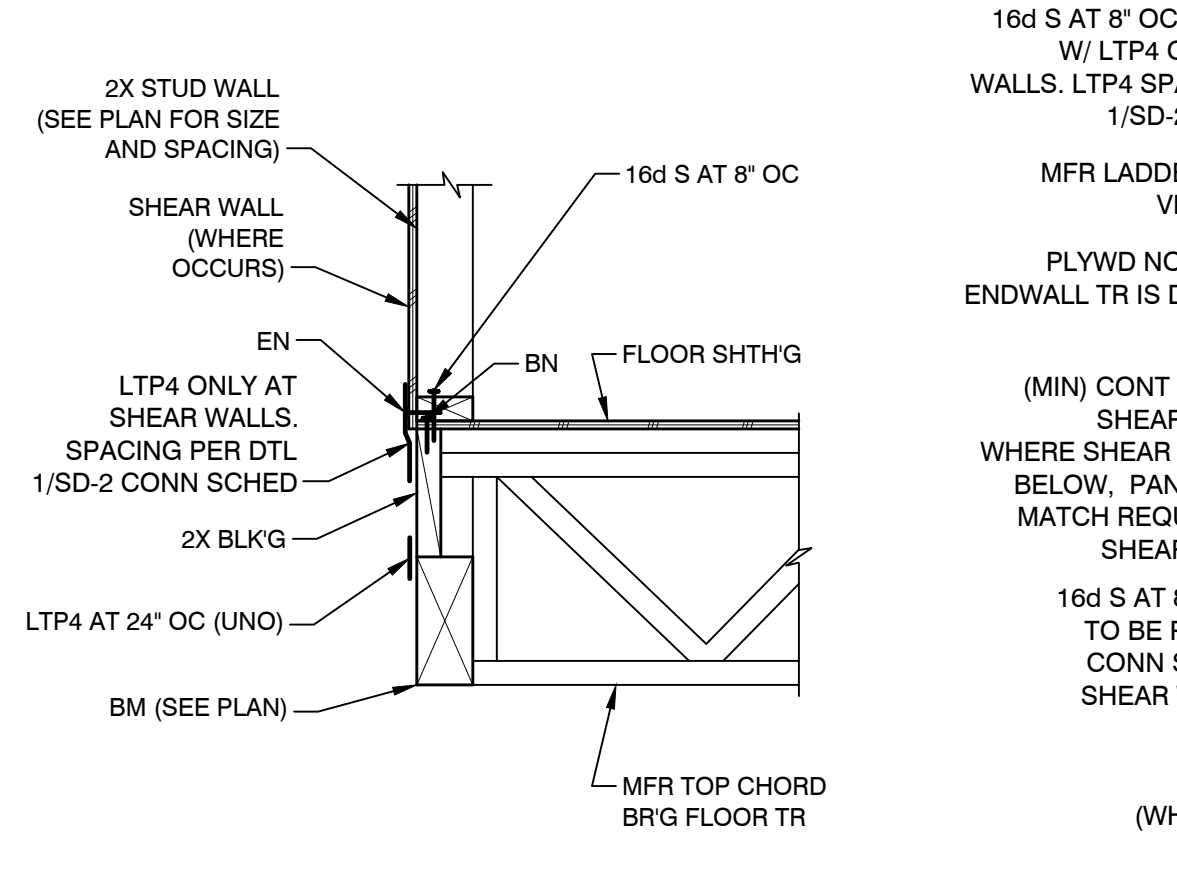
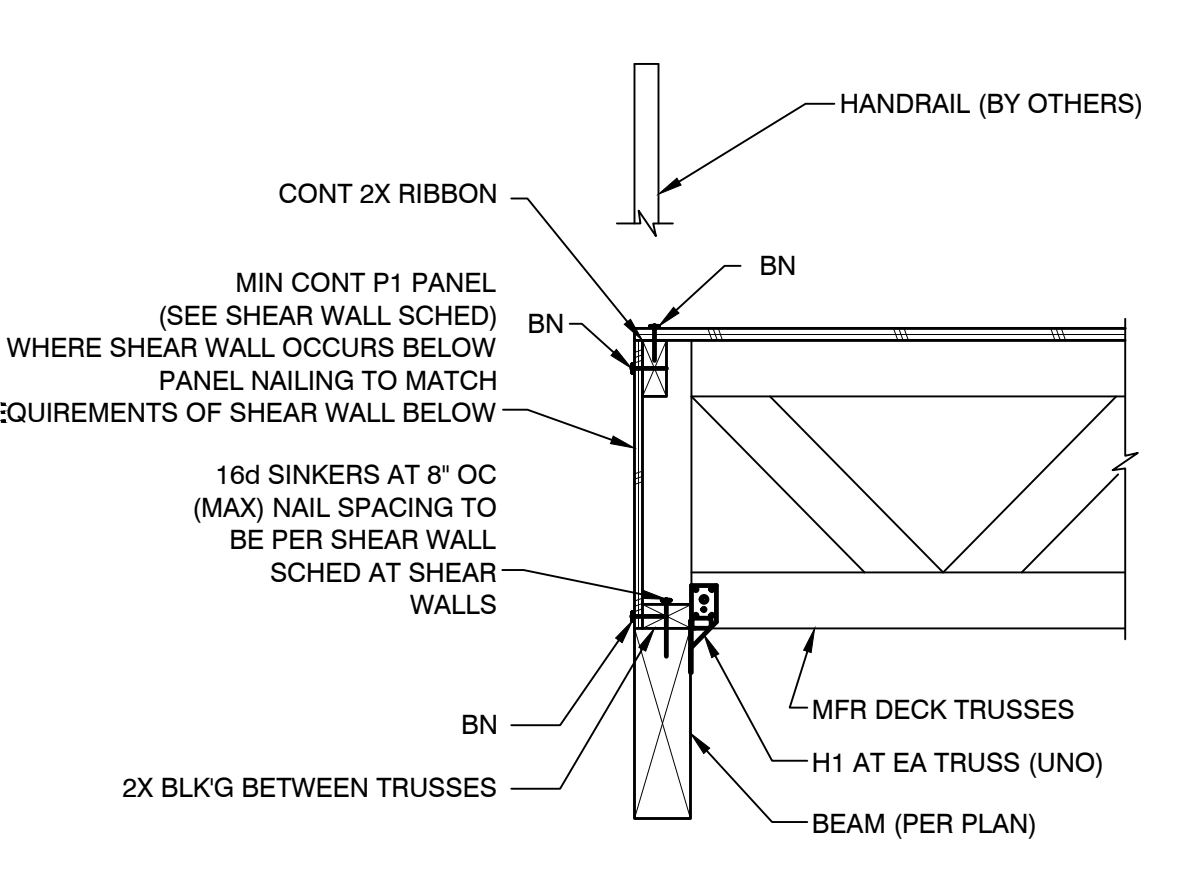
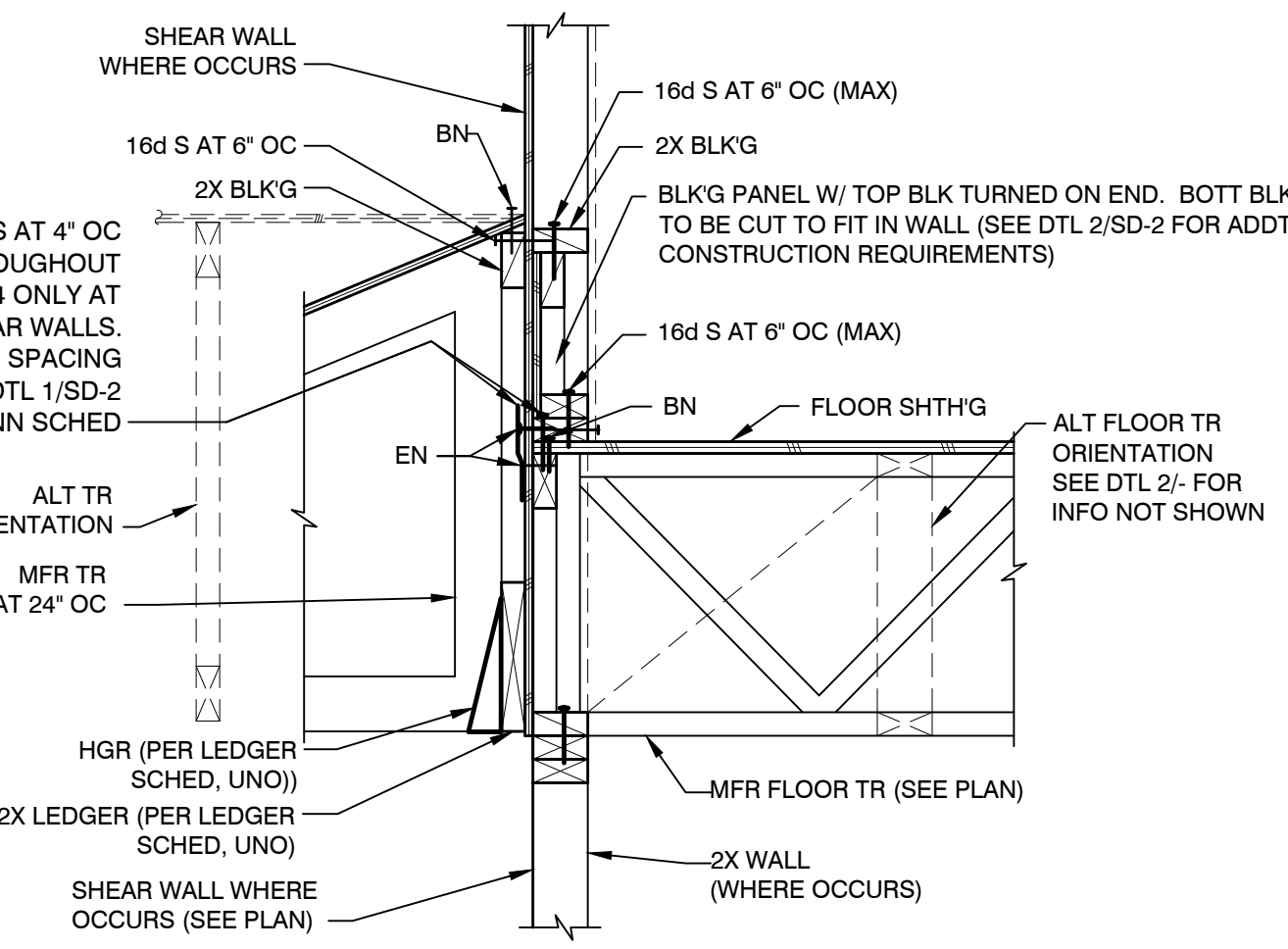


13 REFER TO DTLS 1/- OR 2/- FOR INFORMATION NOT SHOWN NTS

9 NOTE: FOR INFO NOT SHOWN SEE DETAIL 2/- NTS

5 FLOOR TRUSS TO BEAM NTS

1 FLR TR PERP. TO EXT WALL NTS

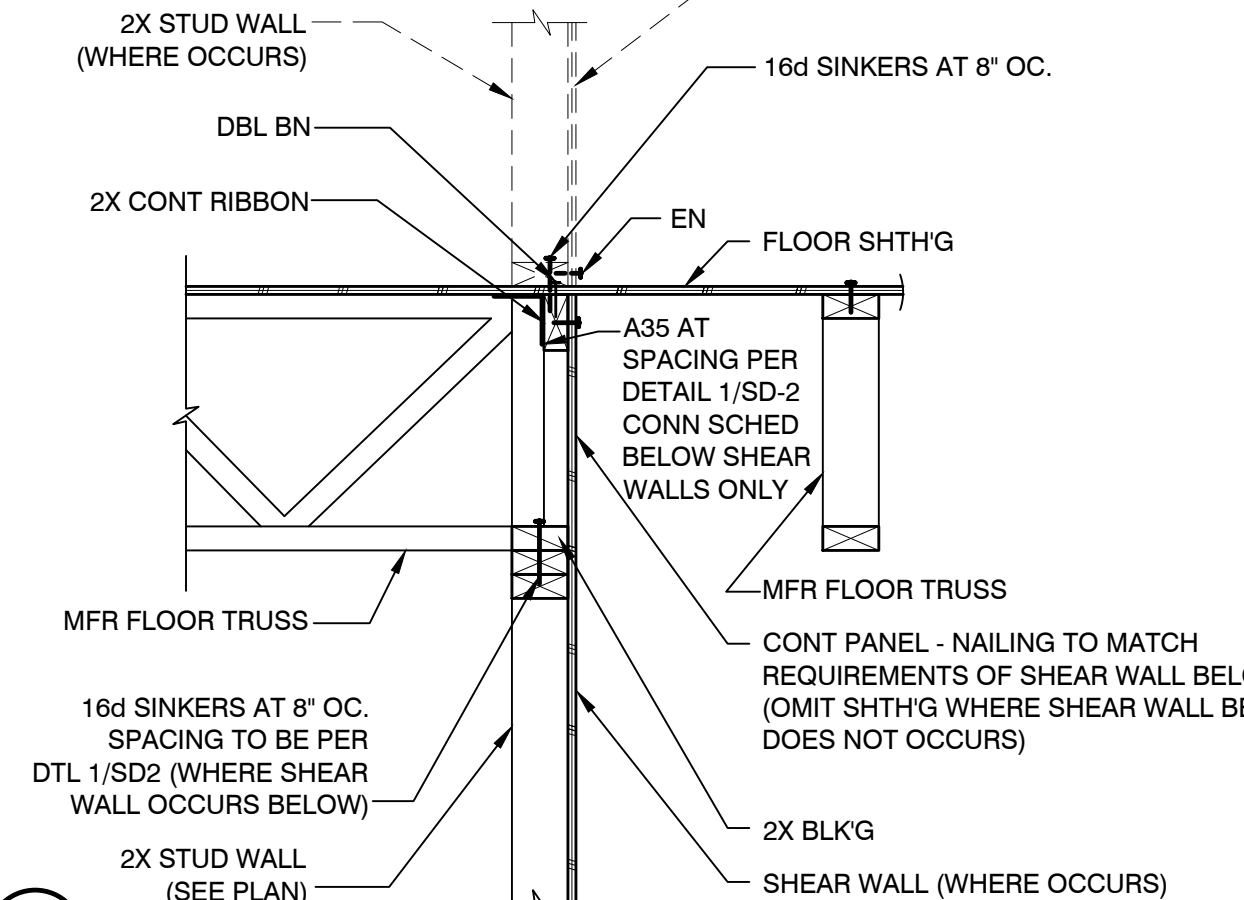
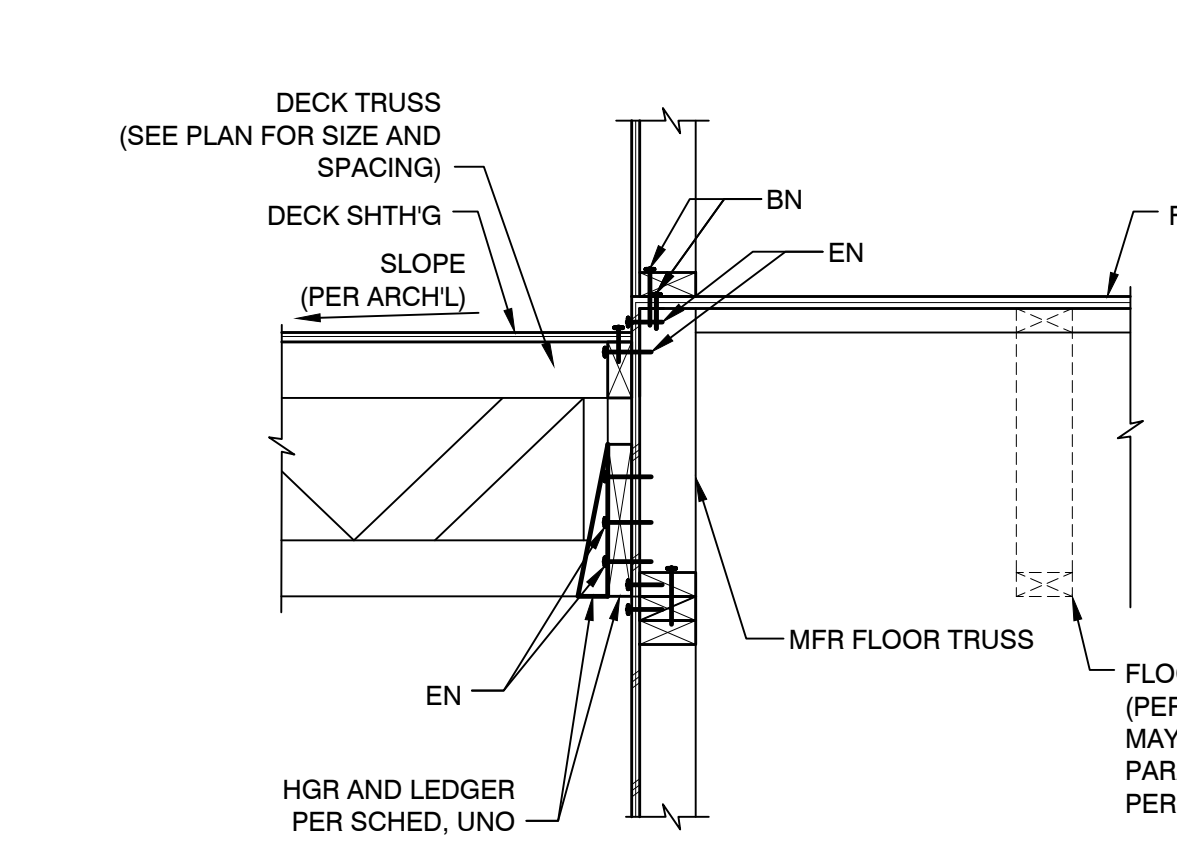
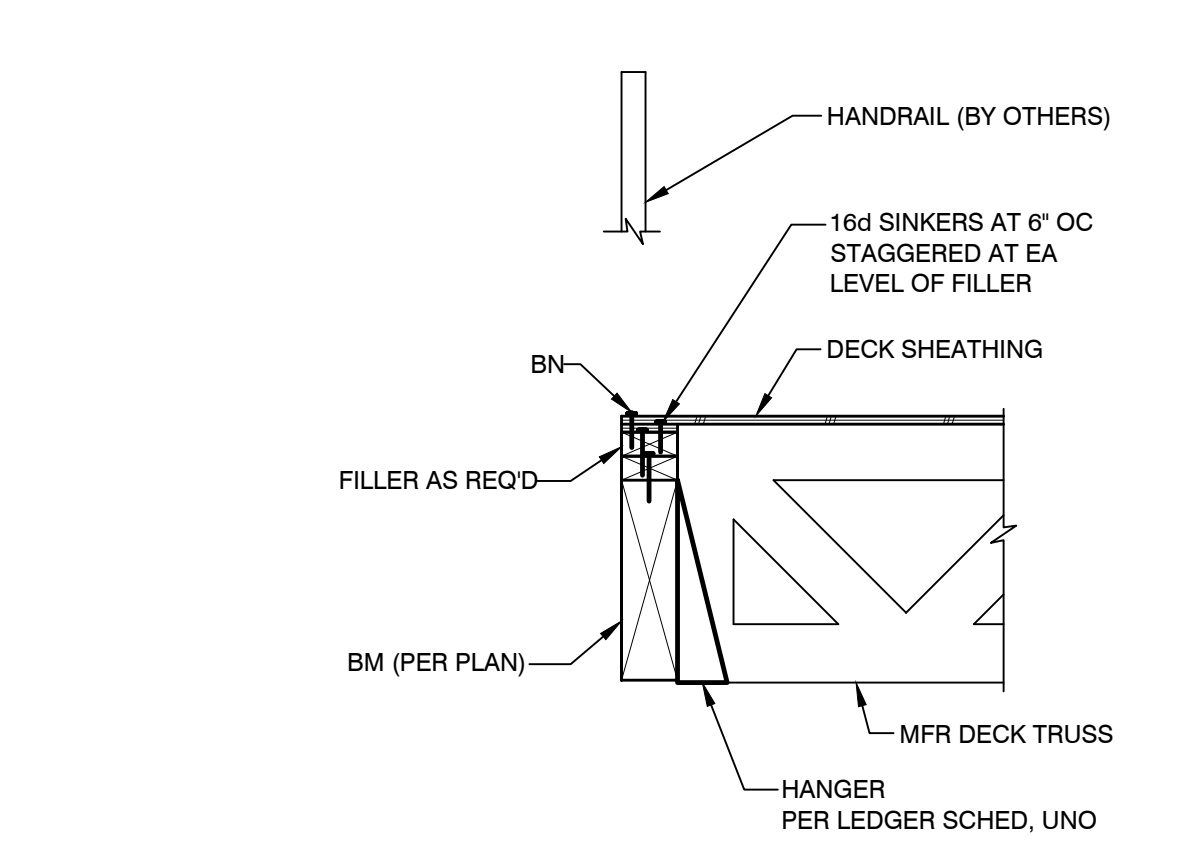
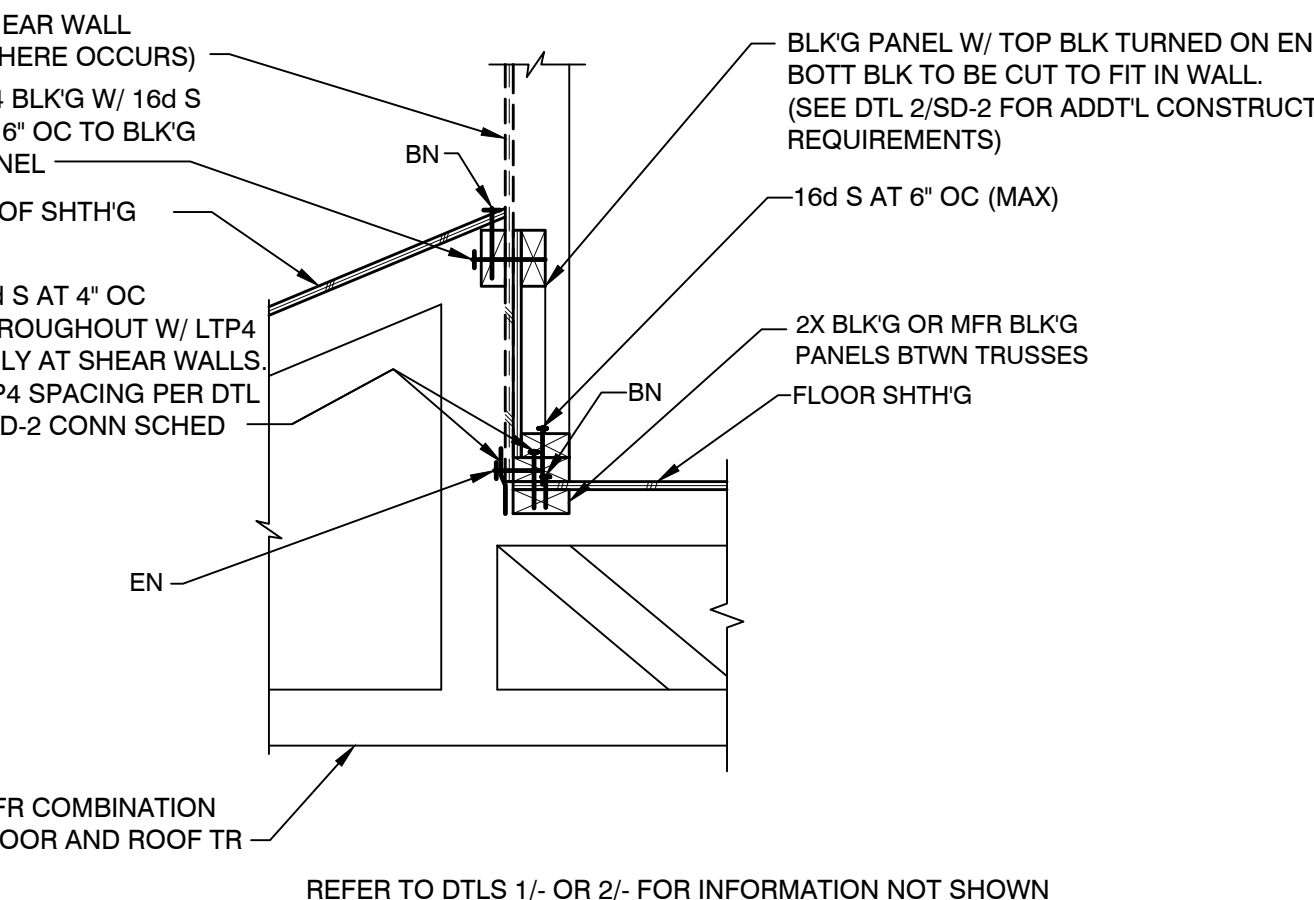


14 REFER TO DTLS 1/- OR 2/- FOR INFO NOT SHOWN NTS

10 NTS

6 FLOOR TR TO BEAM NTS

2 FLR TR PARALLEL TO EXT WALL NTS

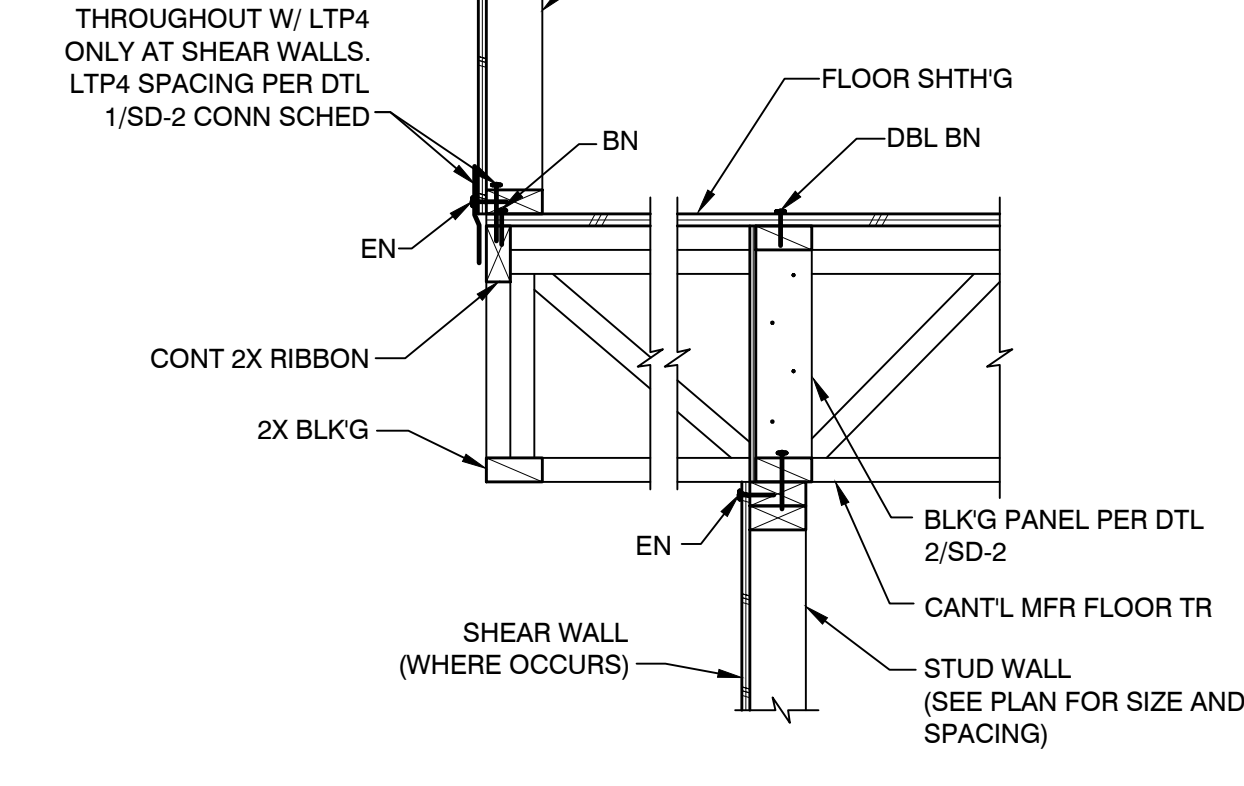
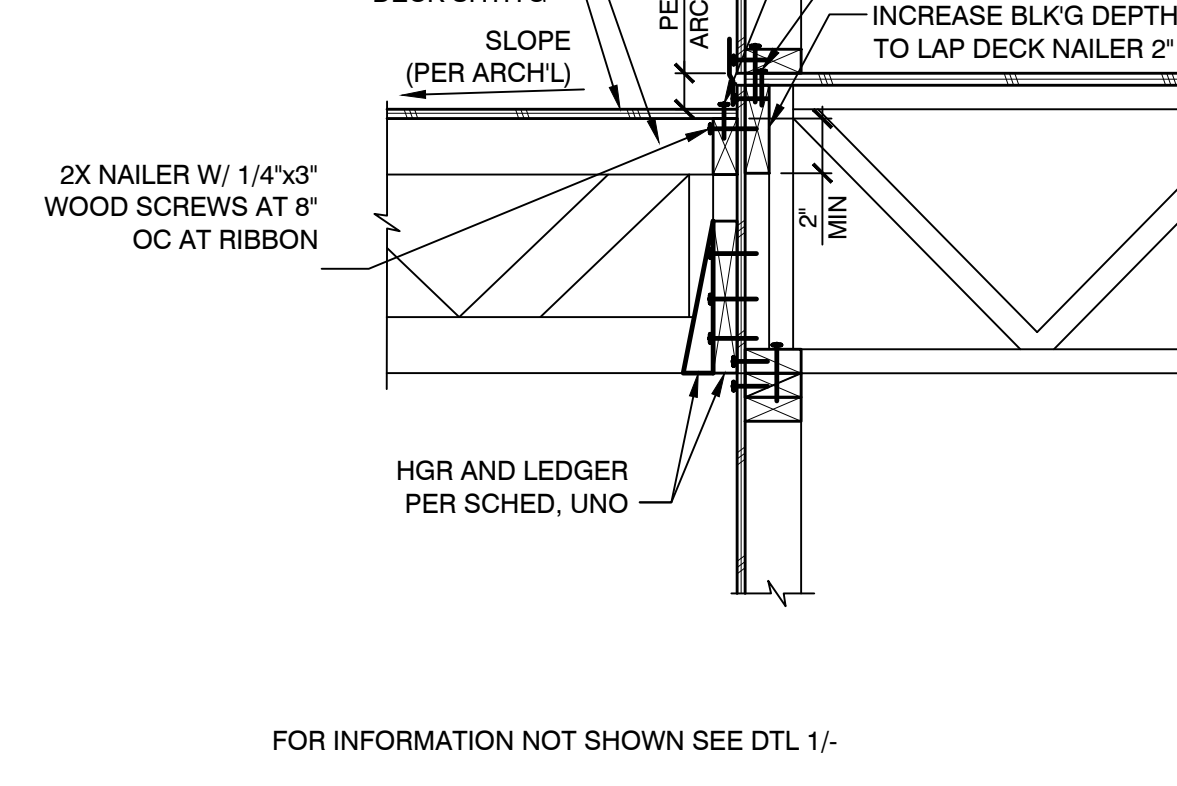
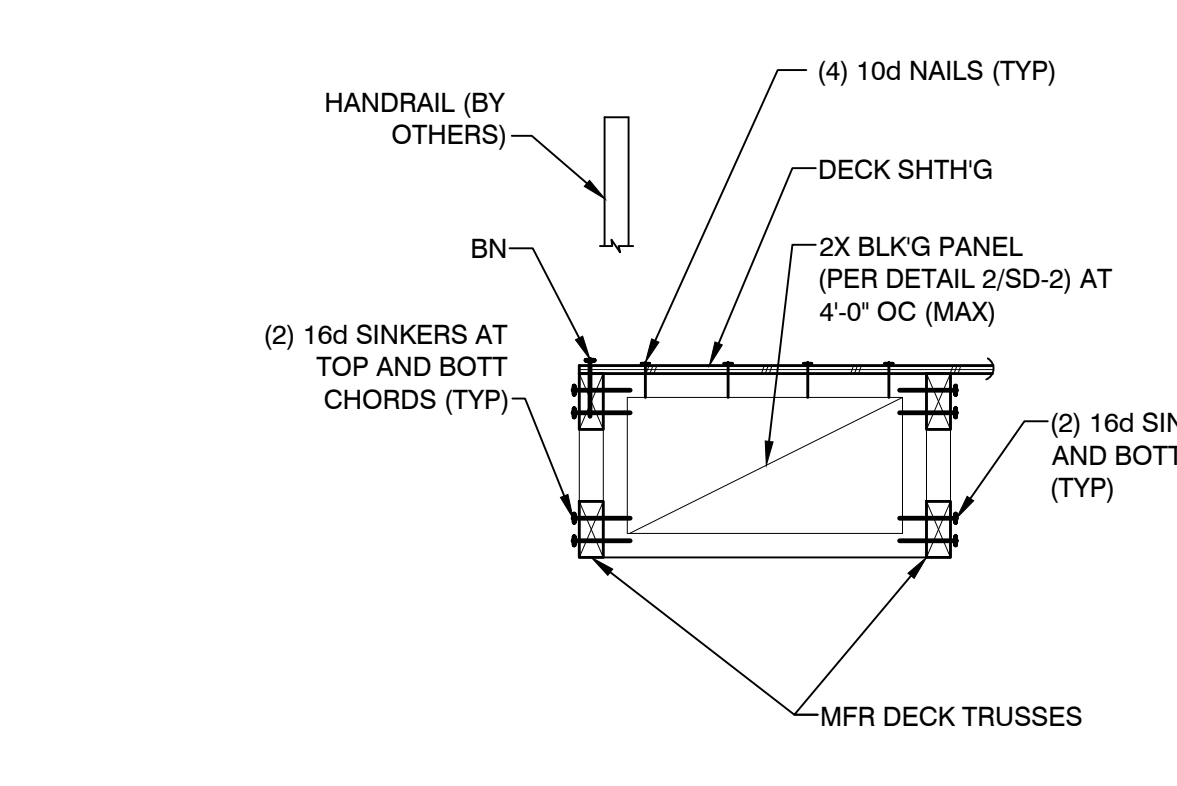
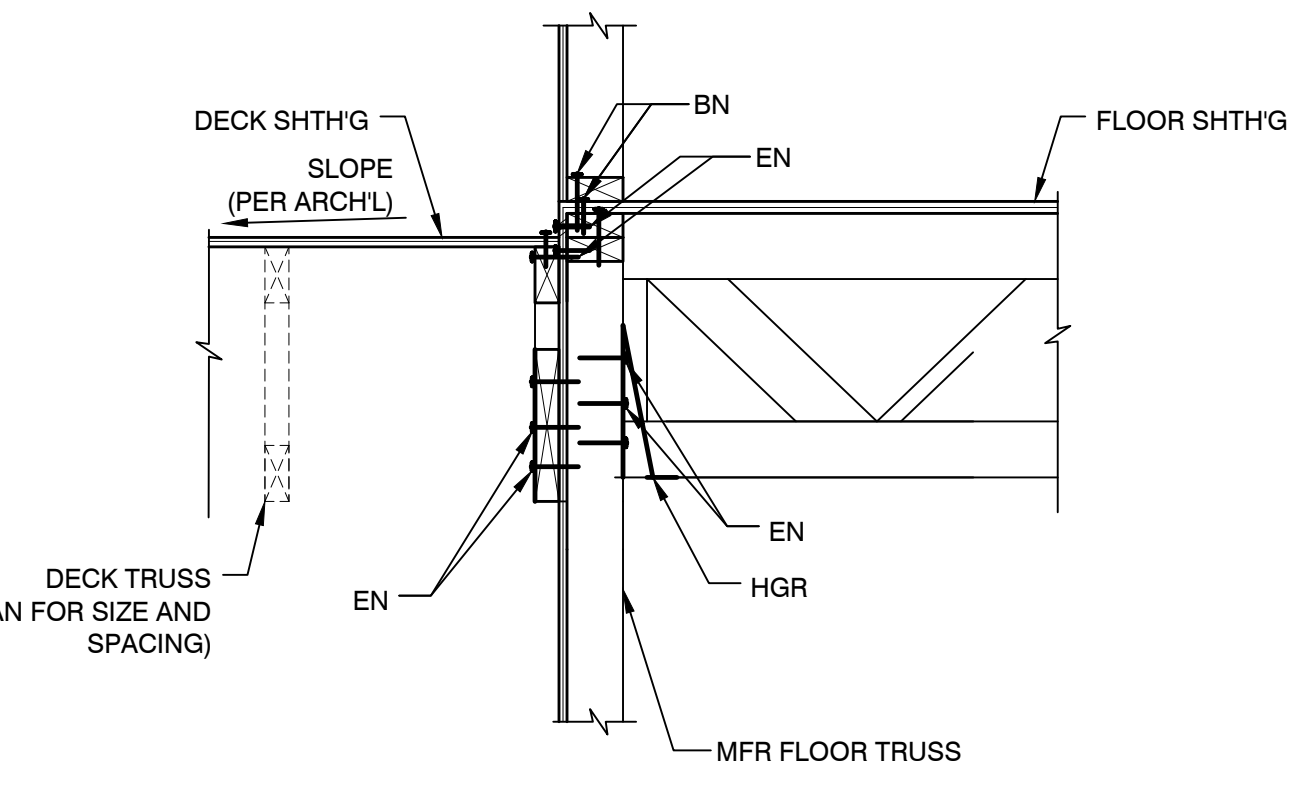


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11 NTS

7 DECK LEDGER NTS

3 NTS



16 DECK LEDGER NTS

12 NTS

8 DECK LEDGER NTS

4 CANTILEVERED FLOOR TR NTS

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1818 Balzar Ave., Las Vegas, NV 89106

**SHEET TITLE:** STRUCTURAL DETAILS

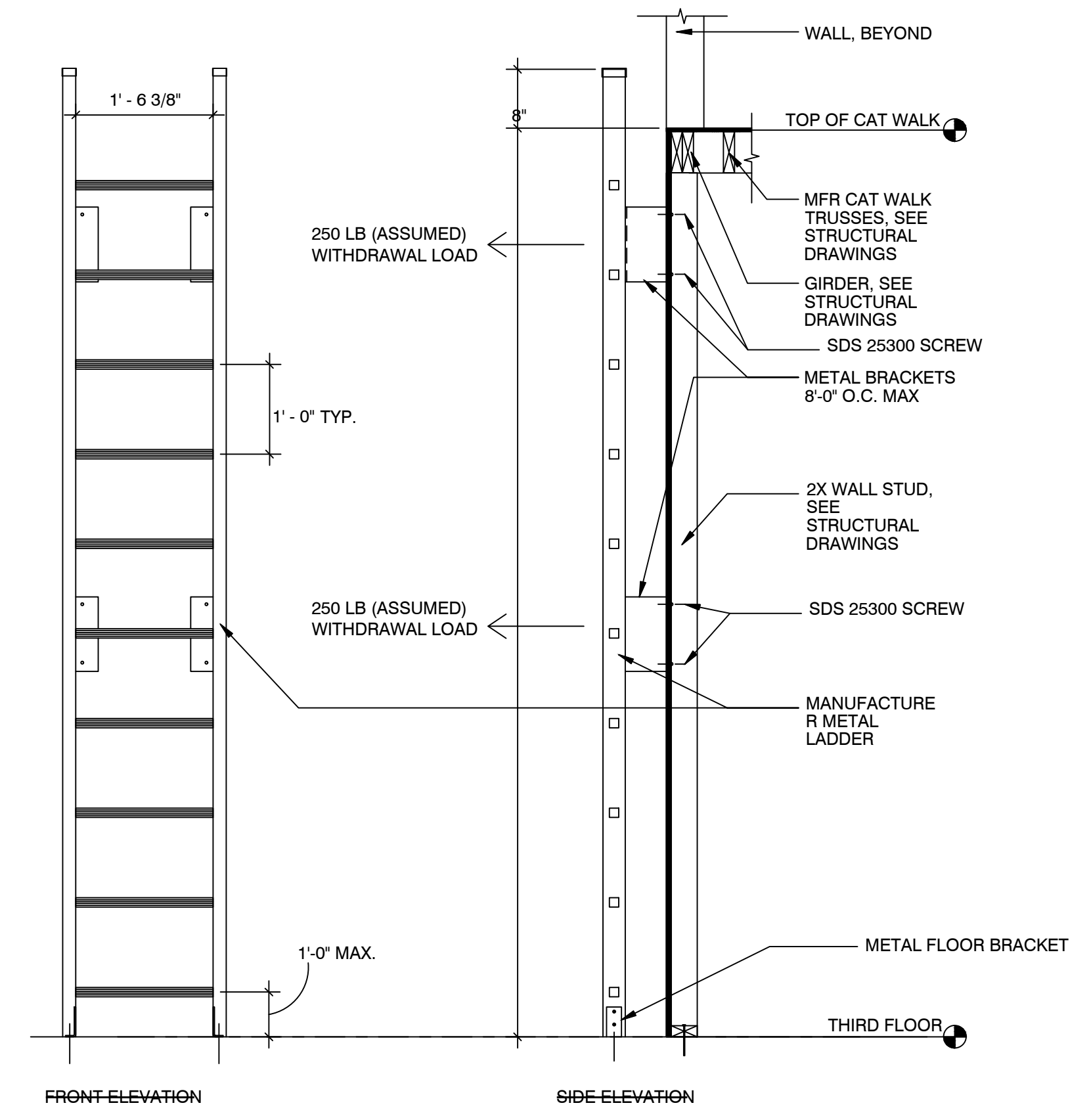
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04-25-2024

REVISIONS		
1	PLAN REVIEW	07.12.2024

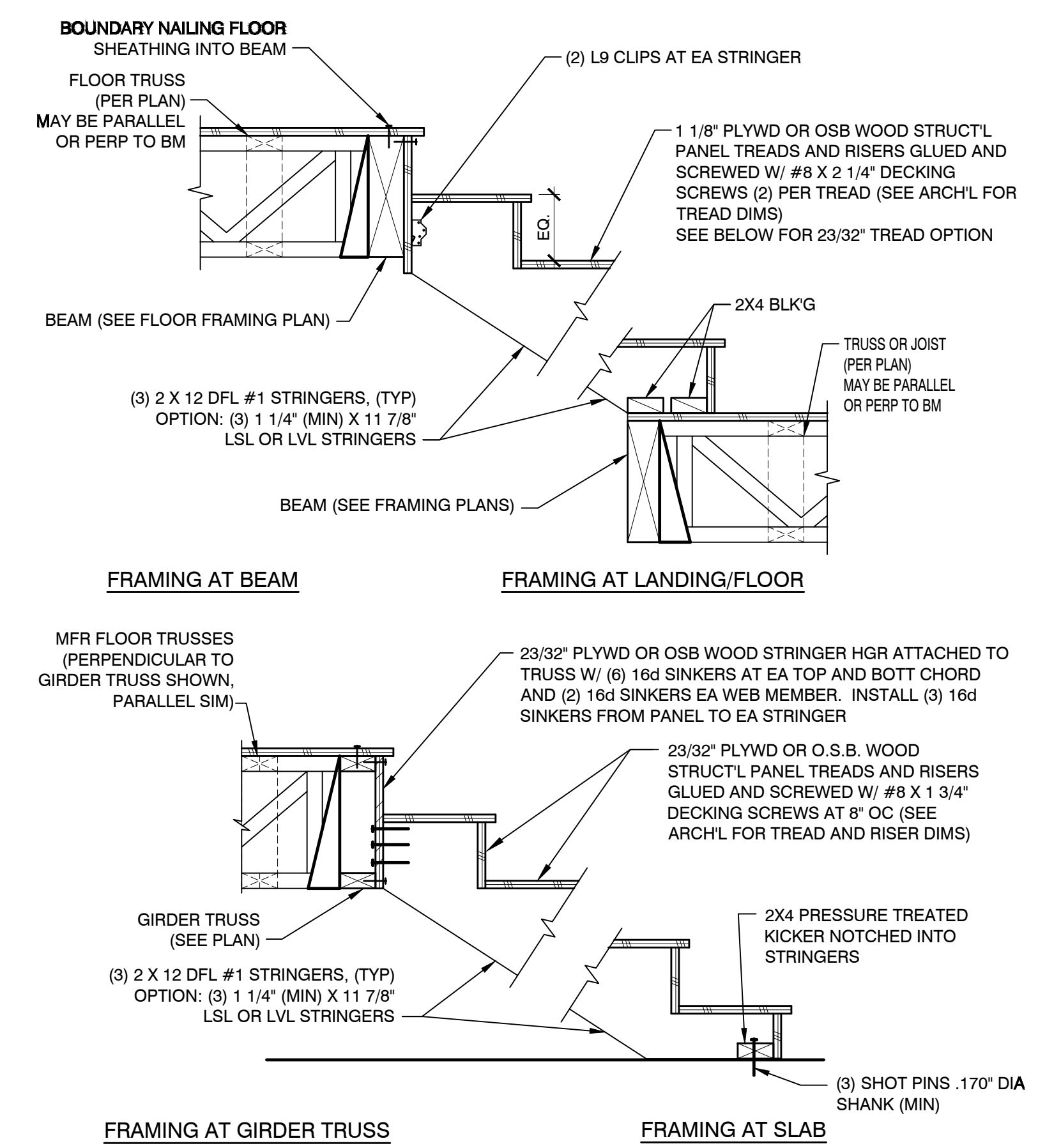
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DATE: 04/25/2024  
JOB NO: 729-086-241  
SCALE: AS INDICATED

SHEET  
**SD-4**

1  
SHEET ADDED



2 ROOF HATCH ACCESS  
NTS

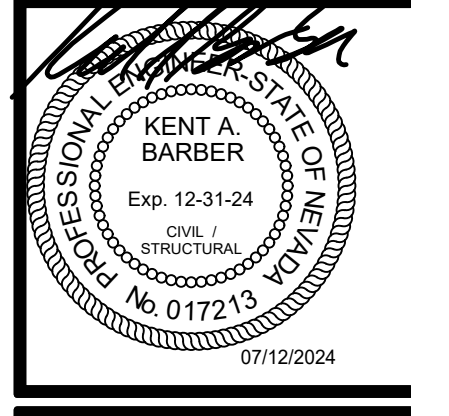


1 STAIR FRAMING  
NTS

**NOTE:**  
MAXIMUM SPAN FOR (3) 2x12 STRINGERS EQUAL 7'-0"  
PROVIDE (4) STRINGERS FOR STAIR RUNS > 7'-0" AND < 14'-0" OR PROVIDE INTERMEDIATE SUPPORT



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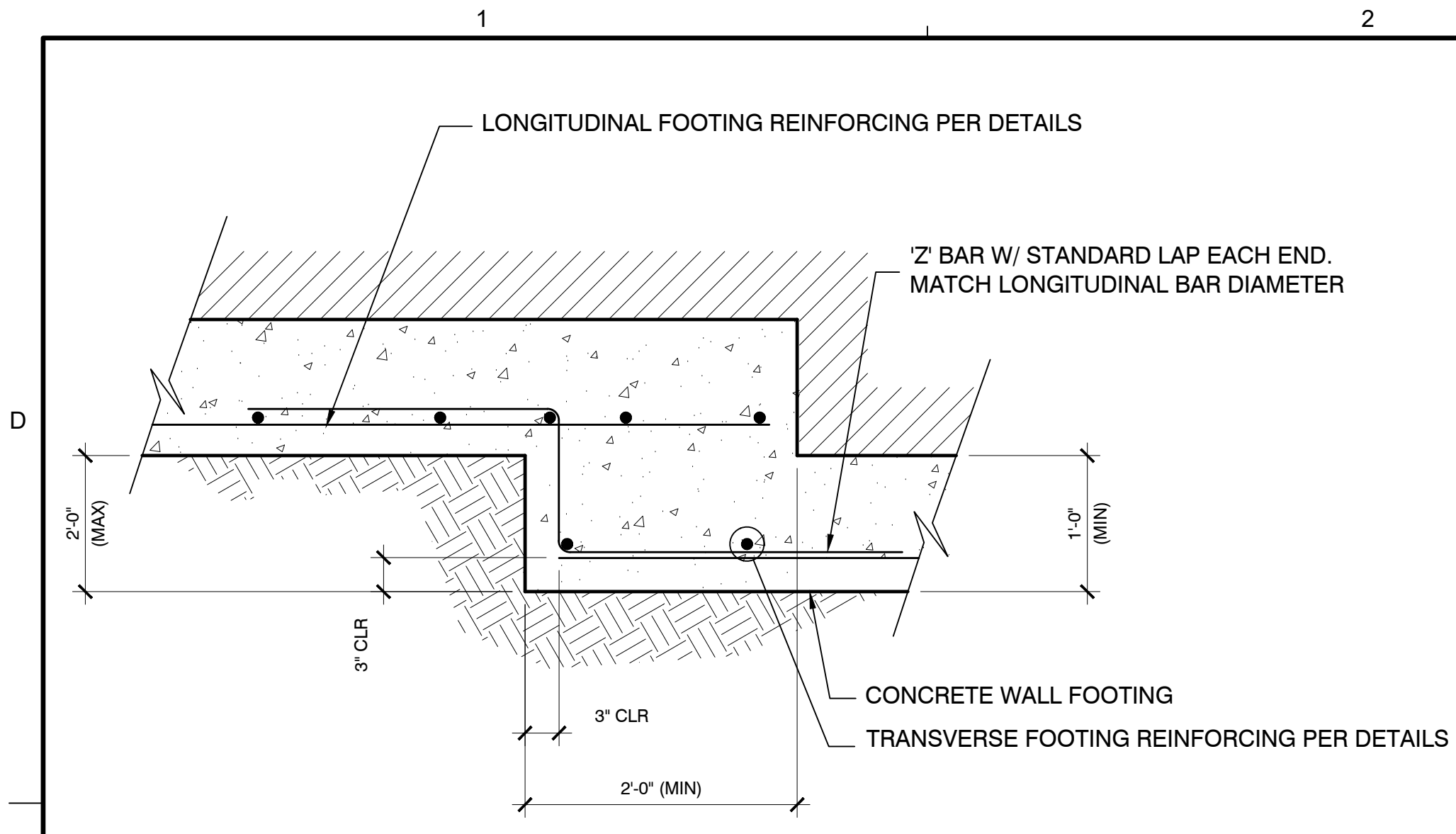
PROJECT: SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106  
SHEET TITLE: STRUCTURAL DETAILS

**BUILDING PERMIT PACKAGE**  
04-25-2024

REVISIONS		
1	PLAN REVIEW	07.12.2024

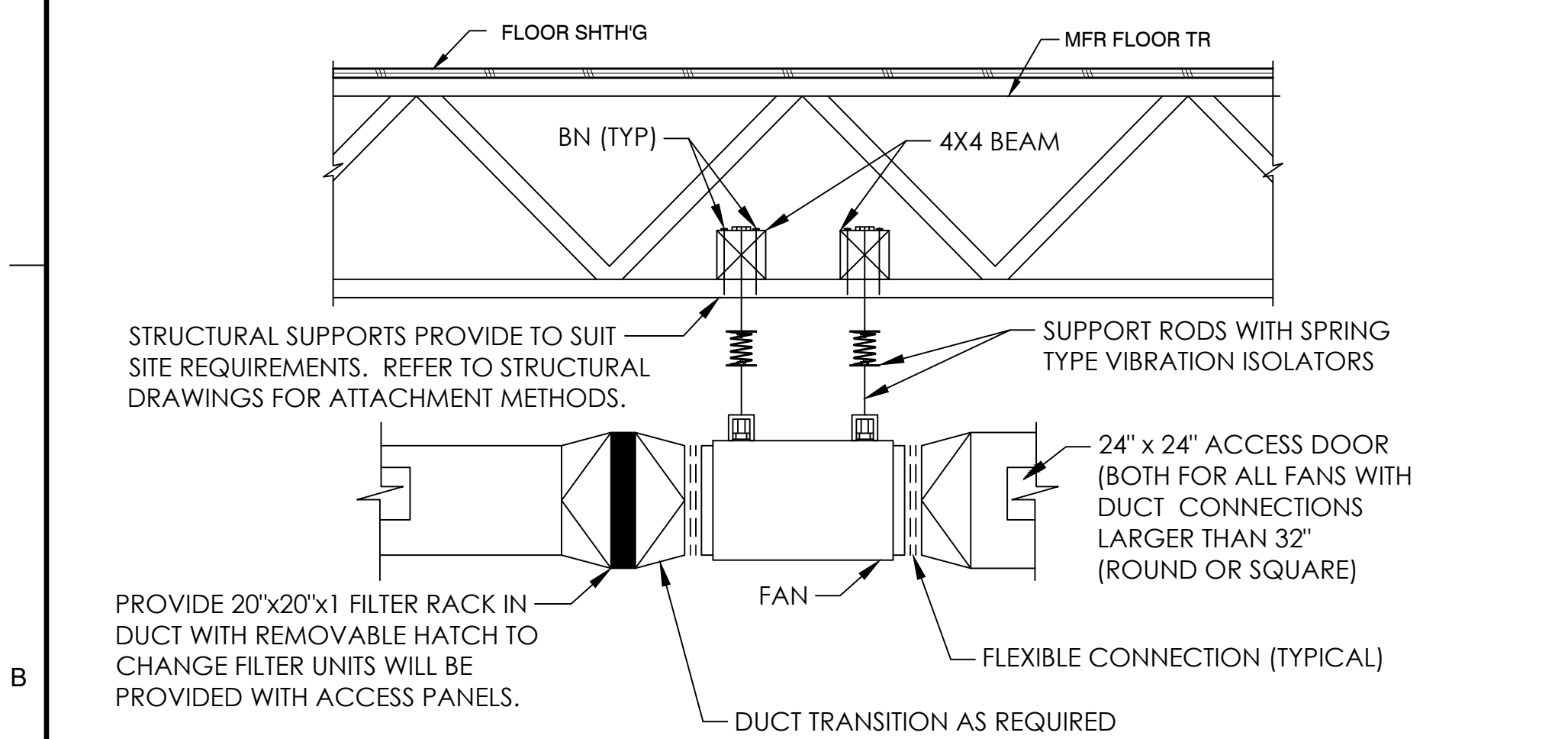
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DO NOT SCALE DRAWINGS

SHEET  
**SD-4.1**

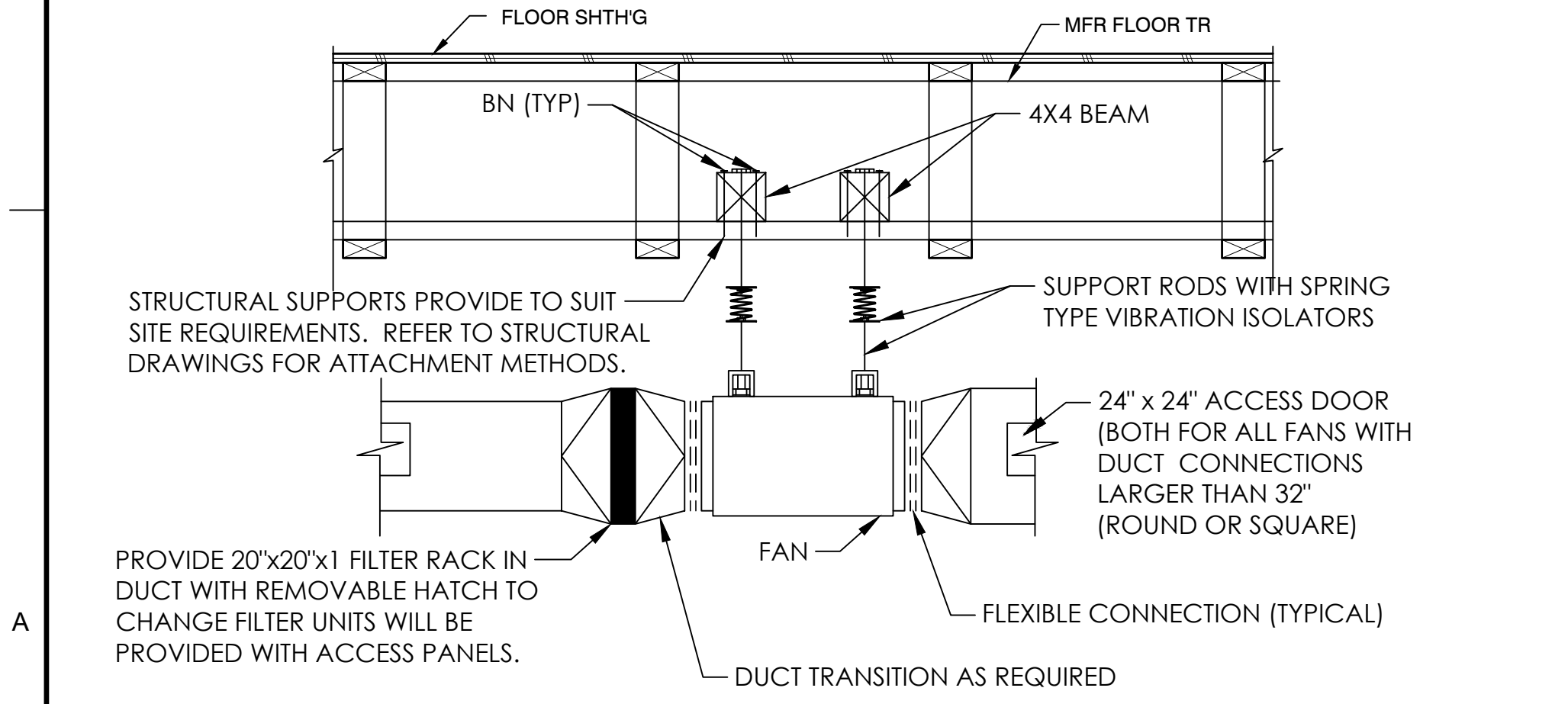


NOTE:  
FOR GRADES LESS THAN 1' IN 20' FOOTING MAY BE SLOPED TO MATCH GRADE MINIMUM FOOTING THICKNESS SPECIFIED ON THESE PLANS IS TO BE MAINTAINED

**W01 STEPPED CONCRETE FOOTING**  
TO BE USED WHEN GRADE EXCEEDS 1' IN 20' (5%) NTS

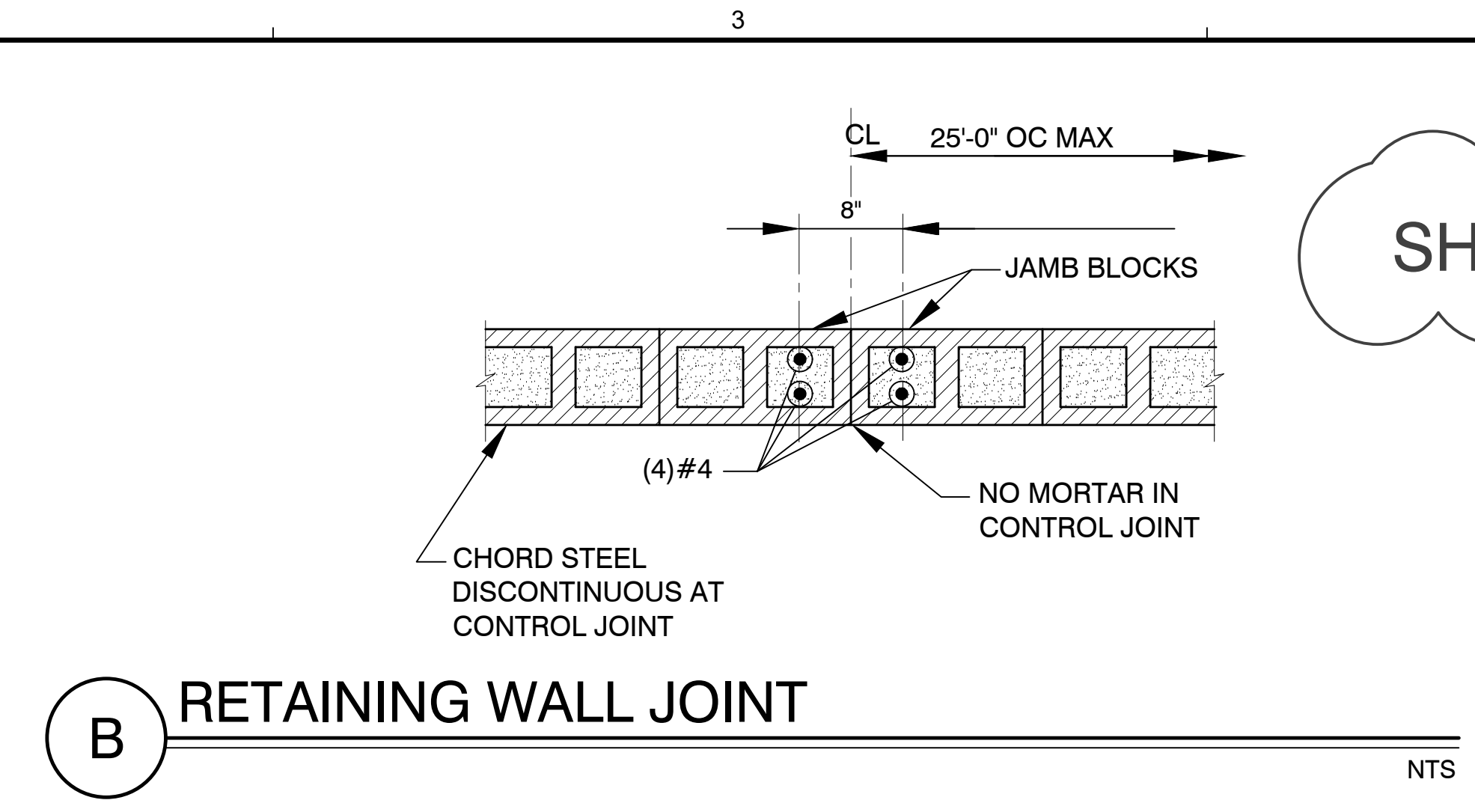


**TYPE B: PARALLEL W/ TRUSSES**

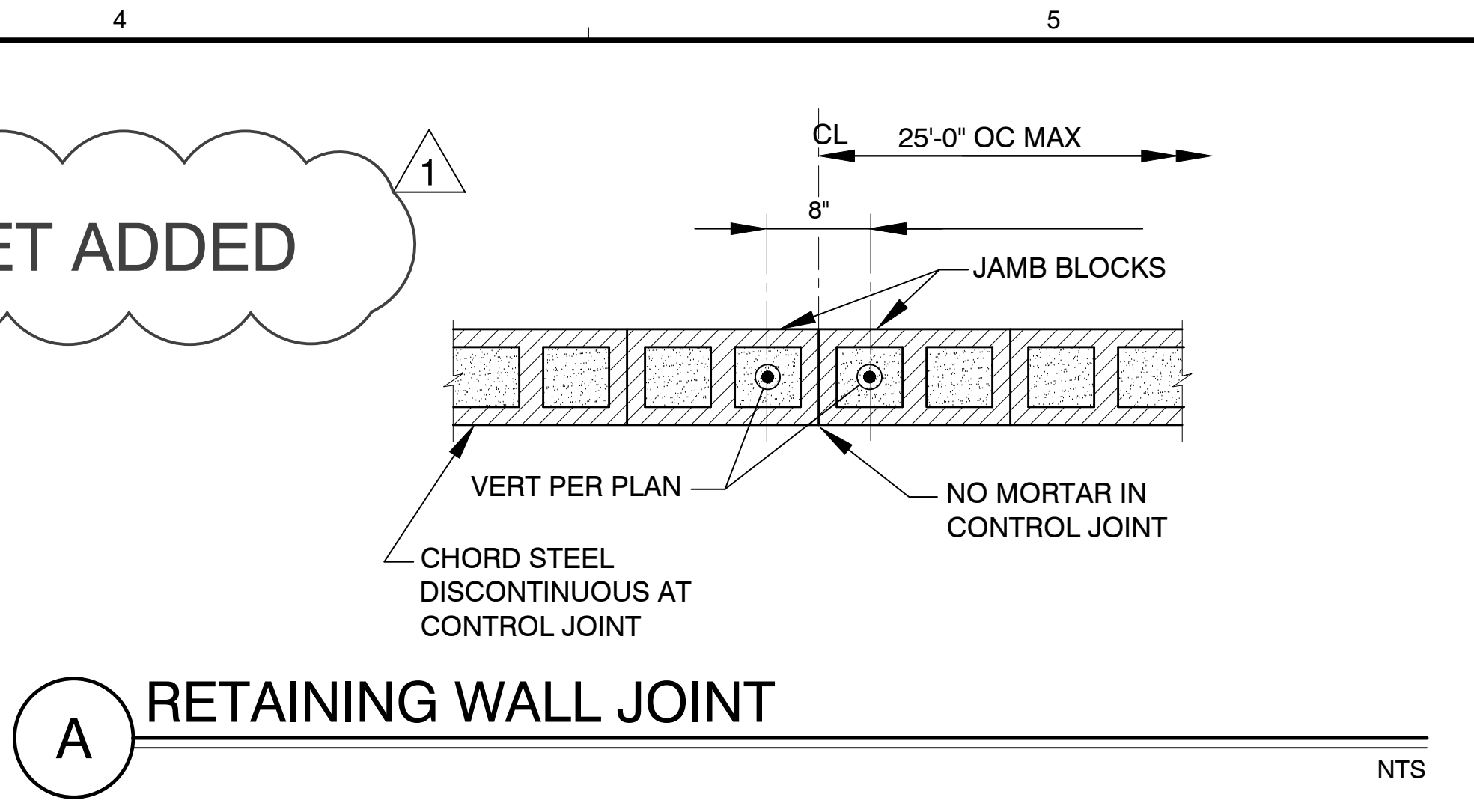


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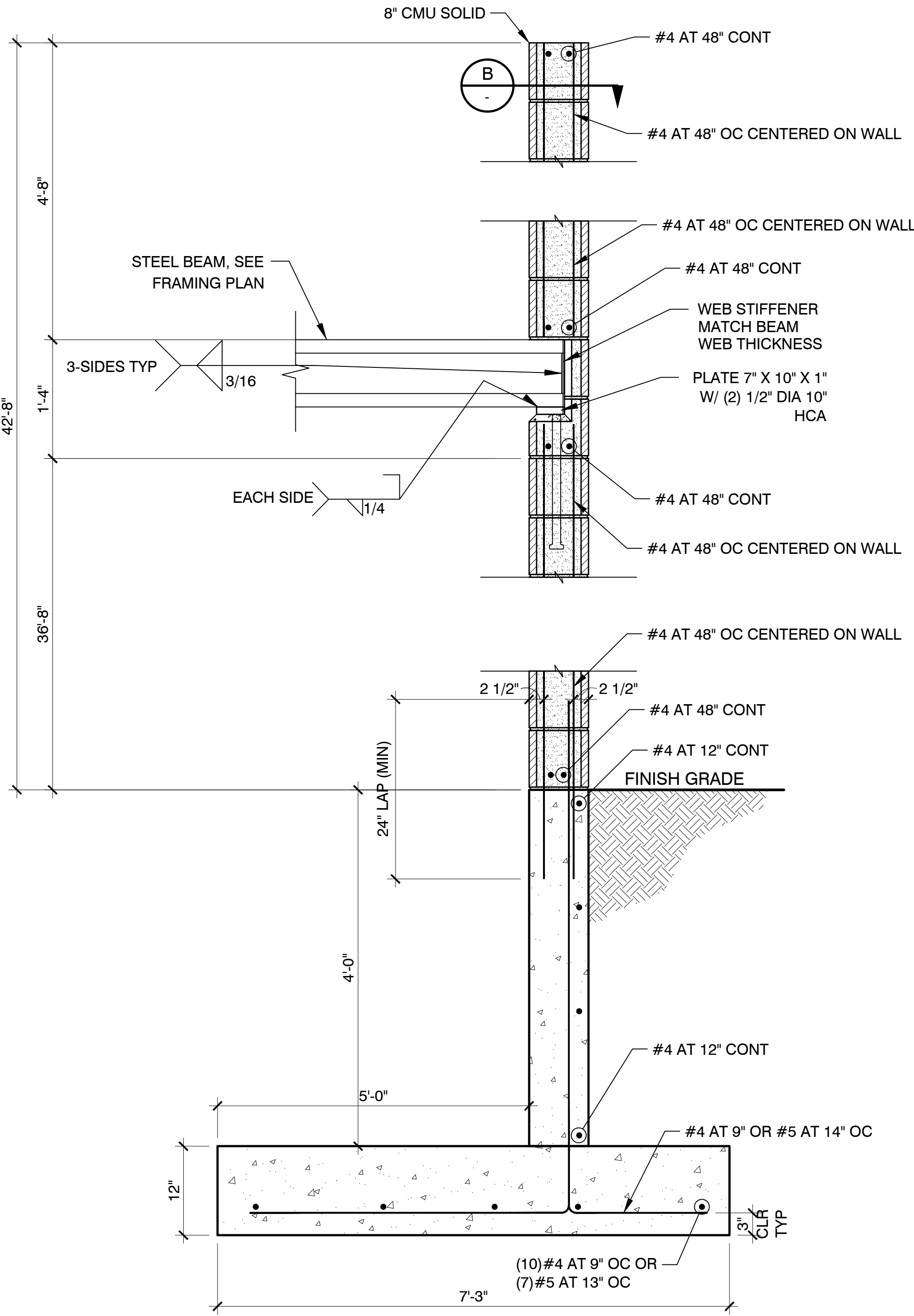
**M FAN UNIT MOUNTING** NTS



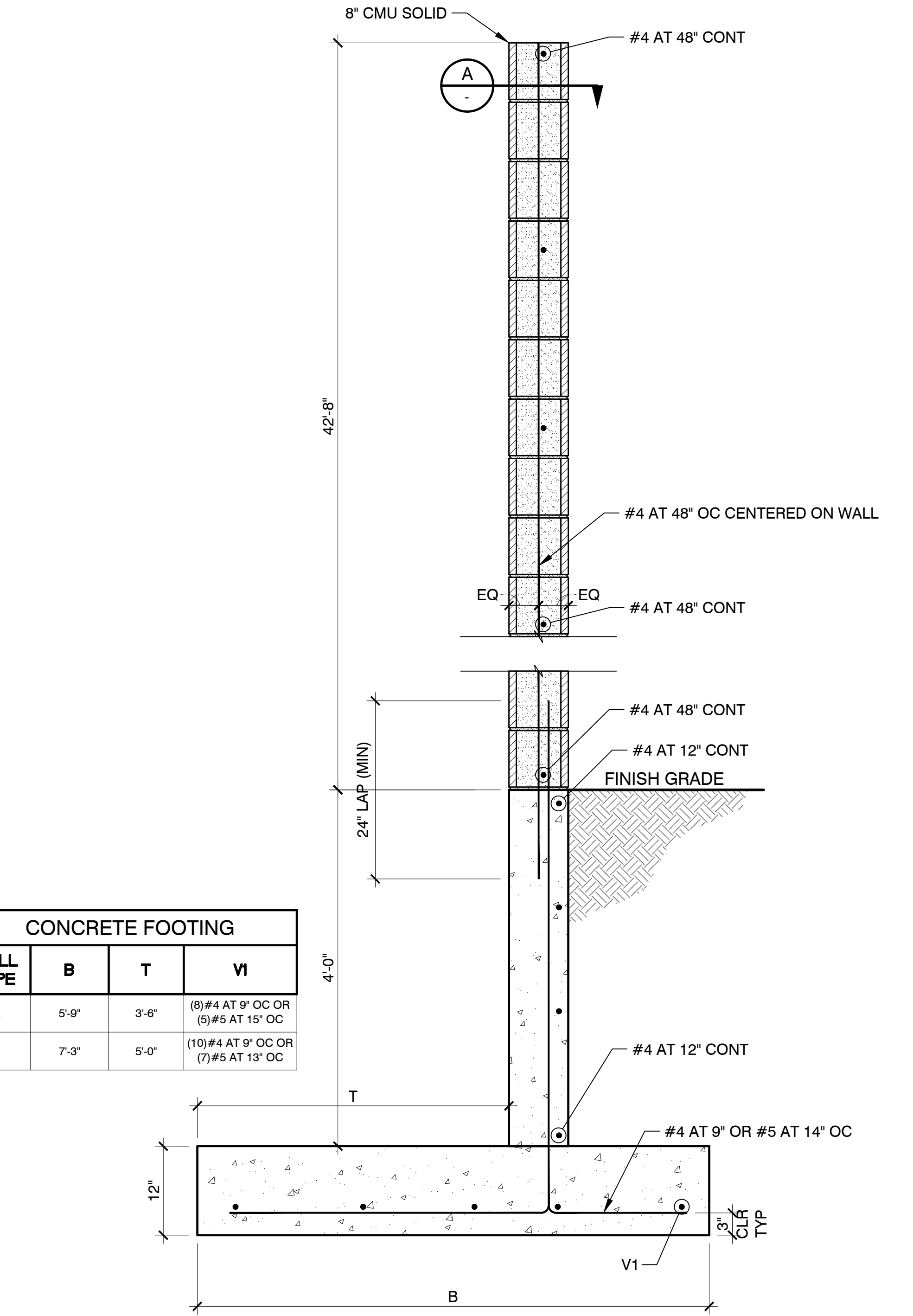
**B RETAINING WALL JOINT** NTS



**A RETAINING WALL JOINT** NTS



**2 42'-8" RESTRAINED WALL W/ BEAM AXIAL LOAD**  
AXIAL LOAD FROM ALL FLOORS AND WALL ABOVE NTS



**1 42'-8" RESTRAINED WALL W/ FLOORS AXIAL LOAD**  
AXIAL LOAD FROM ALL FLOORS AND WALL ABOVE NTS

CONCRETE FOOTING			
WALL TYPE	B	T	VI
A	5'-9"	3'-6"	(8) #4 AT 9" OC OR (5) #5 AT 15" OC
B	7'-3"	5'-0"	(10) #4 AT 9" OC OR (7) #5 AT 13" OC

**KME ARCHITECT**  
5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**KENT A. BARBER**  
PROFESSIONAL ENGINEER - STATE OF NEVADA  
Exp. 12-31-24  
CIVIL / STRUCTURAL  
No. 017213  
07/12/2024

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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:** STRUCTURAL DETAIL

**BUILDING PERMIT PACKAGE**  
04-25-2024

REVISIONS		
NO.	DESCRIPTION	DATE
1	PLAN REVIEW	07.12.2024

DRAWN BY: MS  
DATE: 04/25/2024  
JOB NO: 729-086-241  
SCALE: AS INDICATED  
2024 KME ARCHITECTS

**SD-5**

D

C

B

A

### PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
#	NUMBER	EQUIP	EQUIPMENT	OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
%	PERCENT			OSA	OUTSIDE AIR
Ø	DIAMETER	*F	FAHRENHEIT		
@	AT	FPS	FEET PER SECOND	P, PLBG	PLUMBING
(E)	EXISTING	FFE	FINISH FLOOR ELEVATION	PH	PHASE
(F)	FUTURE	FT, '	FEET	POC	POINT OF CONNECTION
(N)	NEW			POD	POINT OF DISCONNECT
(R)	RELOCATE	GAL	GALLONS	PSI	POUNDS PER SQUARE INCH
(X)	DEMO	GPH	GALLONS PER HOUR	PDI	PLUMBING AND DRAINAGE INSTITUTE
ADA	AMERICANS WITH DISABILITIES ACT	GPM	GALLONS PER MINUTE		
AHJ	AUTHORITY HAVING JURISDICTION			QTY	QUANTITY
AFF	ABOVE FINISH FLOOR	H	HEIGHT		
AMP	AMPERAGE	HP	HORSEPOWER	REV	REVISION
		HR	HOUR	RPM	REVOLUTIONS PER MINUTE
BMS	BUILDING MANAGEMENT SYSTEM	HWFU	HOT WATER FIXTURE UNITS	RM	ROOM
BLDG	BUILDING	HZ	HERTZ		
				S	SLOPE
°C	CELSIUS	IE	INVERT ELEVATION	SF	SQUARE FOOT
CFH	CUBIC FEET PER HOUR	IN, "	INCH	SOV	SHUTOFF VALVE
CFM	CUBIC FEET PER MINUTE			SPEC	SPECIFICATION
CFF	CAP FOR FUTURE	L	LENGTH	STD	STANDARD
CO	CLEANOUT	LB	POUND		
CONT	CONTINUATION			TDL	TOTAL DEVELOPED LENGTH
CWFU	COLD WATER FIXTURE UNIT	M	METER	TYP	TYPICAL
		MAX	MAXIMUM		
DFU	DRAINAGE FIXTURE UNITS	MECH	MECHANICAL	V	VOLTS
DN	DOWN	MIN	MINIMUM	VS	VENT STACK
CWG	DRAWING	MISC	MISCELLANEOUS	VFD	VARIABLE FREQUENCY DRIVE
dB	DECIBEL				
D	DEPTH	N/A	NOT APPLICABLE	W	WATT, OR WIDTH
		NC	NORMALLY CLOSED	W/O	WITHOUT
EA	EACH	NIC	NOT IN CONTRACT	WC	WATER COLUMN
ELEC	ELECTRICAL	NO	NORMALLY OPEN	WS	WASTE STACK
EQ	EQUAL			WSFU	WATER SUPPLY FIXTURE UNITS

### PLUMBING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
---	W	WASTE PIPING BELOW FLOOR
---	W	WASTE PIPING ABOVE FLOOR
--- GR ---	GR	GREASE WASTE PIPING BELOW FLOOR
--- GR ---	GR	GREASE WASTE PIPING ABOVE FLOOR
--- OW ---	OW	OIL WASTE PIPING BELOW FLOOR
--- OW ---	OW	OIL WASTE PIPING ABOVE FLOOR
--- SD ---	SD	STORM DRAIN PIPING BELOW FLOOR
--- SD ---	SD	STORM DRAIN PIPING ABOVE FLOOR
--- OSD ---	OSD	OVERFLOW STORM DRAIN PIPING BELOW FLOOR
--- OSD ---	OSD	OVERFLOW STORM DRAIN PIPING ABOVE FLOOR
---	V	VENT PIPING
--- D ---	D	DRAIN PIPING
--- PD ---	PD	PUMPED DISCHARGE PIPING
---	CW	COLDWATER PIPING
--- SCW ---	SCW	SOFT COLD WATER PIPING
--- NPW ---	NPW	NON-POTABLE WATER PIPING
---	HW	HOT WATER PIPING
---	HWR	HOT WATER RETURN PIPING
--- F ---	F	FIRE SPRINKLER PIPING
--- G ---	G	GAS PIPING (7"-11" WATER COLUMN DECOVERY)
--- 2#G ---	2#G	GAS PIPING (2 POUNDS PER SQUARE INCH DELIVERY)
--- 5#G ---	5#G	GAS PIPING (5 POUNDS PER SQUARE INCH DELIVERY)
--- CA ---	CA	COMPRESSED AIR PIPING
○		PIPING DROP DOWN
○		PIPING RISE UP
○		PIPING TEE DOWN
---		PIPING CONTINUATION
---		PIPING END CAP
---		DIRECTIONAL FLOW ARROW
---		PIPE SLOPE ROUTING
---	SOV	SHUTOFF ISOLATION VALVE
---	GC	GAS COCK
---	CV	CHECK VALVE
---	RPZ	REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTOR
---	BV	BALANCING VALVE (THERMOSTATIC)
---	PRV	PRESSURE REDUCING VALVE
---	MV	MIXING VALVE
---	GPR	GAS PRESSURE REGULATOR
---	WHA	WATER HAMMER ARRESTOR
---	TP	TRAP PRIMER
---		SOLENOID VALVE
---		IN LINE STRAINER
---		WATER OR GAS METER
---		SHUTOFF VALVE IN RISER
---	WCO/CO	WALL CLEAN OUT / END OF LINE CLEANOUT
---	FCO/GCO	FLOOR CLEAN OUT / GRADE CLEANOUT
---	FD / AD / DD	FLOOR DRAIN / AREA DRAIN / DECK DRAIN
---	FS	FLOOR SINK (NO GRATE / HALF GRATE)
---	HD	HUB DRAIN
---	HB	HOSE BIBB
---	VTR	VENT THROUGH ROOF WITH REQUIRED OSA CLEARANCE
---	RD / ORD	ROOF DRAIN / OVERFLOW ROOF DRAIN
---	DSN	DOWNSPOUT NOZZLE
---		TRENCH DRAIN
---		PUMP
---		SUMP PUMP
---	FDC	FIRE DEPARTMENT CONNECTION
---		FIRE RISER STANDPIPE

△ REVISION DELTA  
 ○ SHEET NOTE  
 ● POINT OF CONNECTION  
 ⊗ POINT OF DISCONNECTION  
 EQUIPMENT TAG  
 ○ EQUIPMENT ABBREVIATION  
 ○ EQUIPMENT NUMBER  
 SHEET REFERENCE  
 ○ REFERENCE LETTER / NUMBER  
 ○ SHEET

### TESTING REQUIREMENTS

- TEST SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, ETC. MINIMUM REQUIREMENTS ARE AS FOLLOWS:
  - SANITARY: STATIC WATER PRESSURE FOR ONE (1) HOUR.
  - STORM: STATIC WATER PRESSURE FOR ONE (1) HOUR.
  - POTABLE WATER: 125 PSI FOR ONE (1) HOUR.
  - GAS PIPING: PRESSURE 14-INCH WATER COLUMN OR LESS, 10 PSI FOR ONE (1) HOUR.
  - GAS PIPING: OVER 14-INCH WATER COLUMN, 60 PSI FOR ONE (1) HOUR.
- IF ANY TEST SHOWS THE WORK TO BE DEFECTIVE IN ANY WAY OR AT VARIANCE WITH SPECIFICATION REQUIREMENTS, MAKE NECESSARY CHANGES AND REMEDY DEFECTS.
- TEST PIPING SYSTEMS AFTER INSTALLATION AND PRIOR TO BEING PUT INTO USE, COVERED OR CONCEALED BY INSULATION, BACKFILLING OR BUILDING CONSTRUCTION.

SHEET NUMBER	SHEET DESCRIPTION	ISSUE
P0.00	COVER SHEET	
P0.01	GENERAL NOTES	
P0.10	SCHEDULES	
P0.11	SCHEDULES	
P1.00	OVERALL PLUMBING PLAN - LOCATION PLAN	
P2.10	OVERALL WASTE AND VENT PLAN - FIRST FLOOR	
P2.20	OVERALL PLUMBING PLAN - SECOND FLOOR	
P2.30	OVERALL PLUMBING PLAN - THIRD FLOOR	
P3.10	OVERALL WATER AND GAS PLAN - FIRST FLOOR	
P4.00	OVERALL PLUMBING PLAN - ROOF	
P4.10	ENLARGED WASTE AND VENT - UNITS	
P4.11	ENLARGED WASTE AND VENT - UNITS	
P4.20	ENLARGED WATER AND GAS - UNITS	
P4.21	ENLARGED WATER AND GAS - UNITS	
P5.11	WASTE AND VENT STACK DIAGRAMS	
P5.12	WASTE AND VENT STACK DIAGRAMS	
P5.13	WASTE AND VENT STACK DIAGRAMS	
P5.14	WASTE AND VENT STACK DIAGRAMS	
P5.21	WATER RISER DIAGRAMS	
P5.31	GAS DIAGRAMS	
P6.01	DIAGRAMS	
P6.02	DIAGRAMS	

2024-04-25 PERMIT  
 2024-06-21 CITY OF LAS VEGAS COMMENTS

### PLUMBING FIXTURES / EQUIPMENT

- PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS SHALL BE ACCORDING TO THE ARCHITECTURAL DRAWINGS. ALL PLUMBING FIXTURES SHALL COMPLY WITH THE LOCAL WATER CONSERVATION CODE.
- FLOOR SINKS SHALL BE LOCATED SO AS NOT TO CREATE TRIPPING HAZARD WHEN ROUTING DRAIN LINES AT FLOOR LEVEL. VERIFY EXACT DRAIN LINE ROUTING PRIOR TO FLOOR SINK ROUGH-IN.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR DRAINS AND FLOOR SLOPING REQUIREMENTS.
- PLUMBING EQUIPMENT SHALL BE IDENTIFIED WITH MECHANICALLY FASTENED BAKELITE NAMEPLATES. CONTRACTOR SHALL COORDINATE COLOR AND IDENTIFICATION INFORMATION WITH OWNER.
- PROVIDE FIXTURES/EQUIPMENT AS SPECIFIED AND/OR SCHEDULED AND IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. FIXTURES/EQUIPMENT SHALL OPERATE ACCORDING TO THE MANUFACTURER'S "OWNER'S OPERATING AND MAINTENANCE MANUAL" TROUBLE-FREE PRIOR TO PROJECT TURN OVER.
- ELECTRICAL CHARACTERISTICS OF PLUMBING EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS PRIOR TO ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EQUIPMENT START-UP SHALL BE BY MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
- PIPING CONNECTIONS TO EQUIPMENT WITH MOVING / VIBRATING PARTS SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
- ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL DESIGNATION INFORMATION TO BE PROVIDED FOR EACH ITEM OF PLUMBING EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- REFER TO INTERIOR DESIGN DRAWINGS FOR PLUMBING EXACT FIXTURE SPECIFICATIONS, APPLIANCE SELECTIONS AND LOCATIONS, AND ADDITIONAL ASSOCIATED PLUMBING REQUIREMENTS.
- PROVIDE ONE PIECE BRASS WATER STOPS EQUAL TO BRASSCRAFT MODEL KTR QUARTER TURN BALL STOPS. PROVIDE LOOSE-KEY FOR ALL PUBLIC AREAS. PRIVATE/RESIDENTIAL AREAS SHALL HAVE HANDLE.
- PROVIDE STAINLESS STEEL BRAIDED WATER SUPPLIES EQUAL TO MCGUIRE SSK. PROVIDE 16" SUPPLY LINES FOR ALL FIXTURES EXCEPT WATER CLOSETS, WHICH REQUIRE 12".
- ALL SINKS/LAVATORIES SHALL BE PROVIDED WITH CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG AND TUBING OUTLET WITH TRAP ADAPTER AND ESCUTCHEON EQUAL TO MCGUIRE B8912C. PROVIDE OFFSET TAILPIECE AS REQUIRED EQUAL TO MCGUIRE B-155WC.
- CONTRACTOR SHALL PROVIDE 4" EQUIPMENT PADS WITH 1" CHAMFERED EDGES, FOUNDATIONS, HANGERS, AND SUPPORTS FOR EQUIPMENT SUPPLIED OR INSTALLED UNDER THEIR WORK.

**KME ARCHITECTS**  
 5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
 Fax: 702.888.2089  
 Web: www.kmearchitects.com  
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**ZAKARY BONDY**  
 PROFESSIONAL ENGINEER - STATE OF NEVADA  
 Exp: 12/31/24  
 No. 032709  
 MECHANICAL  
 06/19/2024

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PROJECT: SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE: COVER SHEET

PERMIT

REVISIONS		
No.	Description	Date

DRAWN BY: RE  
 DATE: 2024-04-25  
 JOB NO: 2023-014  
 SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

**(R)EVOLUTION ENGINEERING**  
 3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3361

SHEET  
**P0.00**

D

C

B

A

### TESTING REQUIREMENTS

- TEST SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, ETC. MINIMUM REQUIREMENTS ARE AS FOLLOWS:
  - SANITARY: STATIC WATER PRESSURE FOR ONE (1) HOUR.
  - STORM: STATIC WATER PRESSURE FOR ONE (1) HOUR.
  - POTABLE WATER: 125 PSI FOR ONE (1) HOUR.
  - GAS PIPING: PRESSURE 14-INCH WATER COLUMN OR LESS, 10 PSI FOR ONE (1) HOUR.
  - GAS PIPING: OVER 14-INCH WATER COLUMN, 60 PSI FOR ONE (1) HOUR.
- IF ANY TEST SHOWS THE WORK TO BE DEFECTIVE IN ANY WAY OR AT VARIANCE WITH SPECIFICATION REQUIREMENTS, MAKE NECESSARY CHANGES AND REMEDY DEFECTS.
- TEST PIPING SYSTEMS AFTER INSTALLATION AND PRIOR TO BEING PUT INTO USE, COVERED OR CONCEALED BY INSULATION, BACKFILLING OR BUILDING CONSTRUCTION.

### RECORD DRAWINGS / AS-BUILTS

- AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS IDENTIFYING CHANGES OR DEVIATIONS FROM THE CONTRACT DRAWINGS. AT THE COMPLETION OF THE PROJECT AND BEFORE FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL INCORPORATE THESE MODIFICATIONS INTO THE SHOP DRAWING SETS AND PROVIDE ONE SET OF COMPLETE "AS-BUILT" DRAWINGS TO THE OWNER. THE COST OF PRINTS AND WORK ASSOCIATED IN THE PREPARATION OF THESE RECORD DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE, AND REVIEW WITH THE OWNER: ALL OPERATION AND MAINTENANCE MANUALS UPON COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE, AND REVIEW WITH THE OWNER: A CURRENT VERSION OF ASHRAE 12 - MINIMIZING THE RISK OF LEGIONELLOSIS ASSOCIATED WITH BUILDING WATER SYSTEMS; THE CONTRACTOR SHALL DEMONSTRATE PROPER FLUSHING OF THE SYSTEM TO THE OWNER OR OWNER'S FACILITY TEAM.

### PLUMBING FIXTURES / EQUIPMENT

- PLUMBING FIXTURE LOCATIONS AND MOUNTING HEIGHTS SHALL BE ACCORDING TO THE ARCHITECTURAL DRAWINGS. ALL PLUMBING FIXTURES SHALL COMPLY WITH THE LOCAL WATER CONSERVATION CODE.
- FLOOR SINKS SHALL BE LOCATED SO AS NOT TO CREATE TRIPPING HAZARD WHEN ROUTING DRAIN LINES AT FLOOR LEVEL. VERIFY EXACT DRAIN LINE ROUTING PRIOR TO FLOOR SINK ROUGH-IN.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR DRAINS AND FLOOR SLOPING REQUIREMENTS.
- PLUMBING EQUIPMENT SHALL BE IDENTIFIED WITH MECHANICALLY FASTENED BAKELITE NAMEPLATES. CONTRACTOR SHALL COORDINATE COLOR AND IDENTIFICATION INFORMATION WITH OWNER.
- PROVIDE FIXTURES/EQUIPMENT AS SPECIFIED AND/OR SCHEDULED AND IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. FIXTURES/EQUIPMENT SHALL OPERATE ACCORDING TO THE MANUFACTURER'S OWNER'S OPERATING AND MAINTENANCE MANUAL. TROUBLE-FREE PRIOR TO PROJECT TURN OVER.
- ELECTRICAL CHARACTERISTICS OF PLUMBING EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS PRIOR TO ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EQUIPMENT START-UP SHALL BE BY MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
- PIPING CONNECTIONS TO EQUIPMENT WITH MOVING / VIBRATING PARTS SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
- ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL DESIGNATION INFORMATION TO BE PROVIDED FOR EACH ITEM OF PLUMBING EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- REFER TO INTERIOR DESIGN DRAWINGS FOR PLUMBING EXACT FIXTURE SPECIFICATIONS, APPLIANCE SELECTIONS AND LOCATIONS, AND ADDITIONAL ASSOCIATED PLUMBING REQUIREMENTS.
- PROVIDE ONE PIECE BRASS WATER STOPS EQUAL TO BRASS/CRAFT MODEL KTR QUARTER TURN BALL STOPS. PROVIDE LOOSE-KEY FOR ALL PUBLIC AREAS, PRIVATE/RESIDENTIAL AREAS SHALL HAVE HANDLE.
- PROVIDE STAINLESS STEEL BRAIDED WATER SUPPLIES EQUAL TO MCGUIRE S5x. PROVIDE 1/2" SUPPLY LINES FOR ALL FIXTURES EXCEPT WATER CLOSETS, WHICH REQUIRE 1/2".
- ALL SINKS/LAVATORIES SHALL BE PROVIDED WITH CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG AND TUBING OUTLET WITH TRAP ADAPTER AND ESCUTCHEON EQUAL TO MCGUIRE B8912C. PROVIDE OFFSET TAILPIECE AS REQUIRED EQUAL TO MCGUIRE B-155WC.
- CONTRACTOR SHALL PROVIDE 4" EQUIPMENT PADS WITH 1" CHAMFERED EDGES, FOUNDATIONS, HANGERS, AND SUPPORTS FOR EQUIPMENT SUPPLIED OR INSTALLED UNDER THEIR WORK.

### SHOP DRAWINGS / SUBMITALS

- PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT, CONTRACTOR SHALL SUBMIT AND OBTAIN REVIEWS, OF SHOP DRAWINGS, TECHNICAL DATA SHEETS, AND PIPING DISTRIBUTION LAYOUT DRAWINGS AT 1/4"=1'-0" SCALE. THE CONTRACTOR SHALL PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED. THE CONTRACTOR SHALL DETERMINE EXACT ROUTING AND LOCATIONS, PROVIDING PROPER CLEARANCES, MAKING PROVISIONS FOR MAINTENANCE ACCESS, AND COORDINATING WITH OTHER TRADES, STRUCTURE, AND OTHER OBSTRUCTIONS. INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PIPING, AND ELECTRICAL CONDUIT MAINS. THE SHOP DRAWING SUBMITTAL SHALL BE BASED ON THIS COORDINATION EFFORT AND SHALL SHOW ALL DISTRIBUTION COMPONENTS, PIPING, EQUIPMENT, AND COMPONENTS SHALL BE DRAWN TO SCALE, AND SIZES SHALL BE INDICATED. THE ENGINEER SHALL REVIEW SUBMITTALS AND SHOP DRAWINGS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ISSUE A WRITTEN ASSESSMENT TO THE OWNER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTORS BID SHALL BE BASED UPON MANUFACTURERS AND MODEL NUMBERS LISTED IN EQUIPMENT SCHEDULES. ALTERNATE MANUFACTURERS MAY BE SUBMITTED FOR CONSIDERATION, AND ARE SUBJECT TO APPROVAL BY THE ENGINEER AND OWNER. ADDITIONAL COSTS WILL NOT BE GRANTED IN THE EVENT THAT PROPOSED SUBSTITUTIONS ARE DISAPPROVED.
- CONTRACTOR SHALL IDENTIFY ANY DEVIATIONS IN SHOP DRAWINGS/SUBMITTALS FROM THE DESIGN DOCUMENTS.
- SUBSTITUTIONS SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION PRIOR TO BIDDING. SUBSTITUTIONS SHALL BE PRE-APPROVED IN WRITING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT OR MATERIALS WITH OTHER BUILDING TRADES INCLUDING ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL ELEMENTS. CONTRACTOR SHALL IDENTIFY AND ANNOTATE REVISED REQUIREMENTS PER BUILDING TRADE ON THE SHOP DRAWINGS. CONTRACTOR SHALL ALSO IDENTIFY COST DEBITS OR CREDITS IN WRITING FOR THE PROPOSED CHANGES PER BUILDING TRADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING FEES NECESSARY TO CHANGE PERMIT DOCUMENTS BASED ON ALTERNATE SUBMITTAL PACKAGES / EQUIPMENT SUBSTITUTIONS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED RESTRAINTS, STRUCTURAL ATTACHMENT METHODS, AND RESTRAINT LOCATIONS TO THE ARCHITECT FOR REVIEW. THE SUBMITTED DOCUMENTS SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE, WHEN REQUIRED.
- THE BURDEN OF PROOF OF EQUALITY OF A PROPOSED SUBSTITUTION FOR A SPECIFIED ITEM SHALL BE UPON THE CONTRACTOR. CONTRACTOR SHALL SUPPORT HIS REQUEST WITH SUFFICIENT TEST DATA AND OTHER MEANS TO PERMIT THE ENGINEER TO MAKE A FAIR AND EQUITABLE DECISION ON THE MERIT OF THE PROPOSED SUBSTITUTION. INSUFFICIENT SUBMITTAL DATA WILL RESULT IN REJECTION OF THE PROPOSED SUBSTITUTION. ANY ITEM BY A MANUFACTURER OTHER THAN THOSE SPECIFIED, OR OF BRAND NAME OR MODEL NUMBER, OR OF GENERIC SPECIES OTHER THAN THOSE SPECIFIED, WILL BE CONSIDERED A SUBSTITUTION. ENGINEER WILL BE THE SOLE JUDGE OF WHETHER OR NOT THE SUBSTITUTION IS EQUAL IN QUALITY, UTILITY, AND ECONOMY TO THAT SPECIFIED.
- PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT, THE CONTRACTOR SHALL VERIFY THE PROPER FITTING OF MATERIAL INTO THE BUILDING/SPACE AS INDICATED ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR REASONABLE MODIFICATIONS RELATIVE TO THE DESIGN DRAWINGS, IN ORDER TO PREVENT CONFLICT WITH OTHER TRADES, TO PROVIDE ACCESS AND/OR FOR THE PROPER EXECUTION OF THE WORK.
- SUBMITTALS ARE FOR INFORMATION AND COORDINATION ONLY. REVIEW OF MATERIAL AND/OR EQUIPMENT SUBMITTALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATION REQUIREMENTS. POINTS OF NON-COMPLIANCE WHICH ARE NOT NOTED SHALL NOT BE CONSTRUED TO BE AN APPROVAL THE NON-COMPLIANCE.

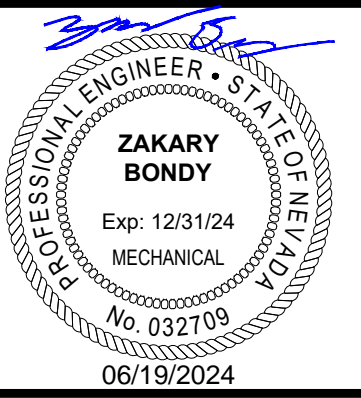
### GENERAL NOTES

- THIS SET OF DRAWINGS COMPRISE THE CONTRACT DOCUMENTS FOR THIS PROJECT AND AS SUCH EACH DISCIPLINE (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND SPECIALTY) SHALL BE REFERRED TO AND COORDINATED WITH EACH OTHER. IF CONFLICTS ARE NOTED BETWEEN THE DISCIPLINES, THEY ARE TO BE BROUGHT TO THE ARCHITECT OF RECORD'S ATTENTION TO BE RESOLVED PRIOR TO BID. NO CLAIMS FOR EXTRA COMPENSATION WILL BE PROVIDED FOR FAILURE TO COORDINATE SCOPE PRIOR TO PROJECT AWARD.
- WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ADOPTED VERSION OF THE APPLICABLE IBC (INTERNATIONAL BUILDING CODE), IECC (INTERNATIONAL ENERGY CONSERVATION CODE), UMC (UNIFORM MECHANICAL CODE), UPC (UNIFORM PLUMBING CODE), NEC (NATIONAL ELECTRICAL CODE), IFC (INTERNATIONAL FIRE CODE). IN ADDITION, ALL PROVISIONS LISTED IN CITY OF LAS VEGAS AMENDMENTS SHALL BE ADHERED TO. INCORPORATE ANY ADDITIONAL REQUIREMENTS INTO THE BASE BID. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR WORK REQUIRED TO CONFORM TO REGULATIONS.
- DO NOT SCALE DRAWINGS AS THEY ARE DIAGRAMMATIC AND SCHEMATIC IN NATURE. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH ACCESSORIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, PRESSURE REDUCING VALVES, AQUASTATS, VIBRATION ISOLATORS, ETC. STARTERS FOR NON-PREWIRED EQUIPMENT, I.E. PUMPS, ETC., ARE UNDER THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK, UNLESS NOTED OTHERWISE.
- SEISMIC RESTRAINTS SHALL BE PROVIDED PER THE LATEST ADOPTED STANDARD BUILDING CODE AND THE SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH OBTAINING PERMITS AND INSPECTIONS REQUIRED FOR THE WORK.
- PERFORM WORK USING PERSONNEL SKILLED IN THE TRADE INVOLVED AND PROVIDE COMPETENT SUPERVISION. FURNISH NEW EQUIPMENT, MATERIALS AND ACCESSORIES BEARING THE MANUFACTURER'S IDENTIFICATION AND CONFORMING TO THE RECOGNIZED INDUSTRY STANDARDS.
- CONTRACTOR SHALL WARRANTY AND GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE (1) YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER. WARRANTY SHALL INCLUDE COSTS ASSOCIATED WITH LABOR AND EQUIPMENT. ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT EXTENDING BEYOND THE GUARANTEE PERIOD SHALL BE TURNED OVER TO THE OWNER IN THE OPERATION AND MAINTENANCE MANUALS.
- AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR SHALL CLEAN AND FLUSH ALL PIPING SYSTEMS, CLEAN EXTERIOR SURFACE OF EQUIPMENT, AND REMOVE CONSTRUCTION DEBRIS, TEMPORARY FACILITIES, AND EQUIPMENT FROM THE WORK AREA. DISINFECT WATER PIPING IN STRICT CONFORMANCE WITH ALL APPLICABLE PLUMBING CODES AND LOCAL AMENDMENTS ADOPTED BY THE BUILDING DEPARTMENT HAVING JURISDICTION.
- AT A TIME DESIGNATED BY THE OWNER, PROVIDE A SUITABLE TECHNICIAN, MECHANIC OR ENGINEER TO REVIEW THE SYSTEMS WITH THE OWNERS REPRESENTATIVE TO THOROUGHLY FAMILIARIZE HIM WITH THE OPERATIONS AND MAINTENANCE OF THE SYSTEMS. UP TO (8) HOURS TOTAL OF TRAINING TIME SHALL BE REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER. PRIOR TO TRAINING THE OWNER SHALL HAVE TAKEN POSSESSION OF THE O & M MANUALS, AND SHALL HAVE HAD A REASONABLE AMOUNT OF TIME FOR HIS PERSONNEL TO FAMILIARIZE THEMSELVES WITH THE CONTENTS OF THE MANUAL.
- WHERE LISTED, THE WORD "PROVIDE" SHALL MEAN FURNISH AND INSTALL, MAKE FINAL CONNECTIONS TO, AND RESULT IN A COMPLETE OPERATING CONDITION. CONTRACTOR SHALL PROVIDE LABOR AND ALL SERVICES NECESSARY FOR THE PROPER OPERATION OF THE COMPLETE SYSTEM NOTED.
- PIPE HANGERS FOR INSULATED PIPE SIZES 1/2" TO 1-1/2" SHALL BE ADJUSTABLE STEEL BAND TYPE. PIPE HANGERS FOR INSULATED PIPE SIZES 2" AND LARGER SHALL BE ADJUSTABLE, STEEL CLEVIS TYPE. SHIELDS SHALL BE USED WHERE HANGER SUPPORTS INSULATED PIPE. SHIELDS SHALL BE MINIMUM 18 GAGE GALVANIZED STEEL OVER INSULATION 180° AND A MINIMUM OF 12" LONG. SHIELD THICKNESS AND LENGTH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. PIPE HANGERS FOR BARE PIPE SHALL BE ADJUSTABLE, MALLEABLE STEEL. SPLIT RING TYPE. BARE COPPER PIPE SHALL BE PROTECTED FROM CORROSION. HANGERS SHALL BE LOCATED 12" MAXIMUM FROM ANY CHANGE IN DIRECTION AND AS REQUIRED PER CODE.
- INSTALL PIPING HIGH AS POSSIBLE, IN ORDER TO ALLOW FOR EQUIPMENT AND RACKING SYSTEMS OR OTHER SPECIAL CONDITIONS THAT MAY ARISE. SAGS AND TRAPS IN HORIZONTAL PIPE RUNS ARE PROHIBITED.
- COORDINATE ROUTING OF PIPING TO MAINTAIN CLEARANCES ABOVE ELECTRICAL PANELS AND EQUIPMENT PER NEC REQUIREMENTS. PROVIDE SHEET METAL DRAIN PAN UNDER PIPING WHERE PIPING OCCURS ABOVE ANY ELECTRICAL GEAR/PANELS AND A/V ROOM. PIPE 3/4" DRAIN FROM DRAIN PAN AND DISCHARGE WITH AIRGAP TO NEAREST APPROVED RECEPTOR OR LOCATION.
- PENETRATIONS THROUGH SOUND RATED PARTITIONS SHALL BE SEALED WITH ACOUSTICAL CAULK OR RESISTANT ESCUTCHEON. REFER TO ARCHITECTURAL FOR EXACT REQUIREMENTS.
- PENETRATIONS OF FIRE-RATED WALLS OR FLOORS BY PIPE SHALL BE SEALED BY A FIRESTOPPING SYSTEM UL LISTED FOR THE APPLICATION. INSTALL PENETRATION SEAL MATERIALS IN ACCORDANCE WITH PRINTED INSTRUCTION OF THE UL FIRE RESISTANCE DIRECTORY AND MANUFACTURER'S INSTRUCTIONS. FIRESTOPPING SYSTEM SHALL BE AS SPECIFIED BY ARCHITECT OR EQUAL TO 3M FIRE BARRIER. FIRESTOPPING MATERIAL SHALL BE CAULK OR PUTTY TYPE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATINGS.
- PROVIDE CHROME PLATED ESCUTCHEONS AT PIPE PENETRATIONS WITH EXPOSED BARE PIPE. FINISH SHALL BE AS SPECIFIED BY ARCHITECT AND INTERIORS.
- WATER PROOFING AND FLASHING OF PIPE PENETRATIONS SHALL BE BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE LOCATIONS AND METHODS WITH GENERAL CONTRACTOR OR OTHER DIVISIONS PRIOR TO CONSTRUCTION.
- COVER AND PROTECT EQUIPMENT AND MATERIALS FROM WEATHER, THEFT, ETC., UNTIL DATE OF COMPLETION. PLUG AND/OR CAP OPEN ENDS OF INSTALLED PIPING.
- COORDINATE CHASE, SLEEVE AND SLAB BLOCK-OUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
- PROVIDE ACCESS DOORS IN GYPSUM BOARD CEILINGS AND INACCESSIBLE WALLS FOR VALVES AND APPURTENANCES. COORDINATE LOCATION OF VALVES, CLEANOUTS AND ACCESS DOORS WITH ARCHITECT / INTERIOR DESIGNER PRIOR TO INSTALLATION.
- REFER TO CIVIL DRAWINGS FOR INVERT AT SITE UTILITY POINTS OF CONNECTION. PROVIDE OFFSET AND INCREASE FOR STORM DRAIN OR SEWER AS REQUIRED FOR CONNECTION TO CIVIL.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL CONNECTION LOCATIONS AND REQUIREMENTS PRIOR TO CONSTRUCTION. IF CONFLICTS OCCUR, BRING THEM TO THE ATTENTION OF THE GENERAL CONTRACTOR TO BE RESOLVED.
- VENTS TERMINATED ABOVE ROOF SHALL BE MINIMUM 10 FEET FROM ANY OUTSIDE AIR INTAKES OR BUILDING OPENINGS. COORDINATE PENETRATION REQUIREMENTS WITH ARCHITECTURAL. ALL VENTS SHALL SLOPE TO DRAIN BACK TO THE PLUMBING FIXTURES.
- PROVIDE DIELECTRIC FITTINGS TO CONNECT DIFFERENT PIPING MATERIALS.
- PIPING CONNECTIONS TO PLUMBING FIXTURES, EXPOSED PIPING AND FITTINGS SHALL BE CHROME PLATED.
- PROVIDE THERMOSTATIC BALANCING VALVES EQUAL TO CIRCUIT SOLVER CSU. VALVES SHALL BE FULL LINE SIZE. PROVIDE BALANCING VALVE IN THE FOLLOWING ASSEMBLY: SHUTOFF VALVE, UNION, BALANCING VALVE, CHECK VALVE, UNION, SHUTOFF VALVE. BALANCING VALVE DELTA T SHALL BE NO MORE THAN 10°F. HOT WATER RETURN PIPING BRANCH LINES SHALL DROP DOWN IN WALL AND CONNECT TO HOT WATER SUPPLY AT STOPS FOR ALL LOW FLOW FIXTURES. CONTRACTOR SHALL ENSURE HOT WATER IS DELIVERED TO THE FIXTURE PER ASHRAE 90.1 REQUIREMENTS.
- VALVES SHALL BE EQUAL TO NIBCO, CRANE, KITZ, OR MILWAUKEE AND SHALL INCLUDE GUARANTEED WORKING PRESSURE AND MANUFACTURER'S NAME STAMPED ON THE VALVE BODY. SHUTOFF VALVES 2" AND SMALLER SHALL BE FULL PORT BALL. VALVES LARGER THAN 2" SHALL BE FULL PORT BUTTERFLY.
- ALL CLEANOUTS SHALL BE INSTALLED AS SHOWN IN THIS DOCUMENT PACKAGE AND PER CODE.
- HORIZONTAL PIPING SHALL BE PROVIDED AT THE FOLLOWING SLOPES, UNLESS OTHERWISE NOTED ON THESE PLANS. SEWER = 1/4" DROP PER FOOT. STORM = 1/4" DROP PER FOOT. INDIRECT DRAIN = 1/8" DROP PER FOOT.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

PROJECT:

SHEET TITLE:  
**GENERAL NOTES**

PERMIT

REVISIONS		
No.	Description	Date

DRAWN BY: RE  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

SHEET

P0.01

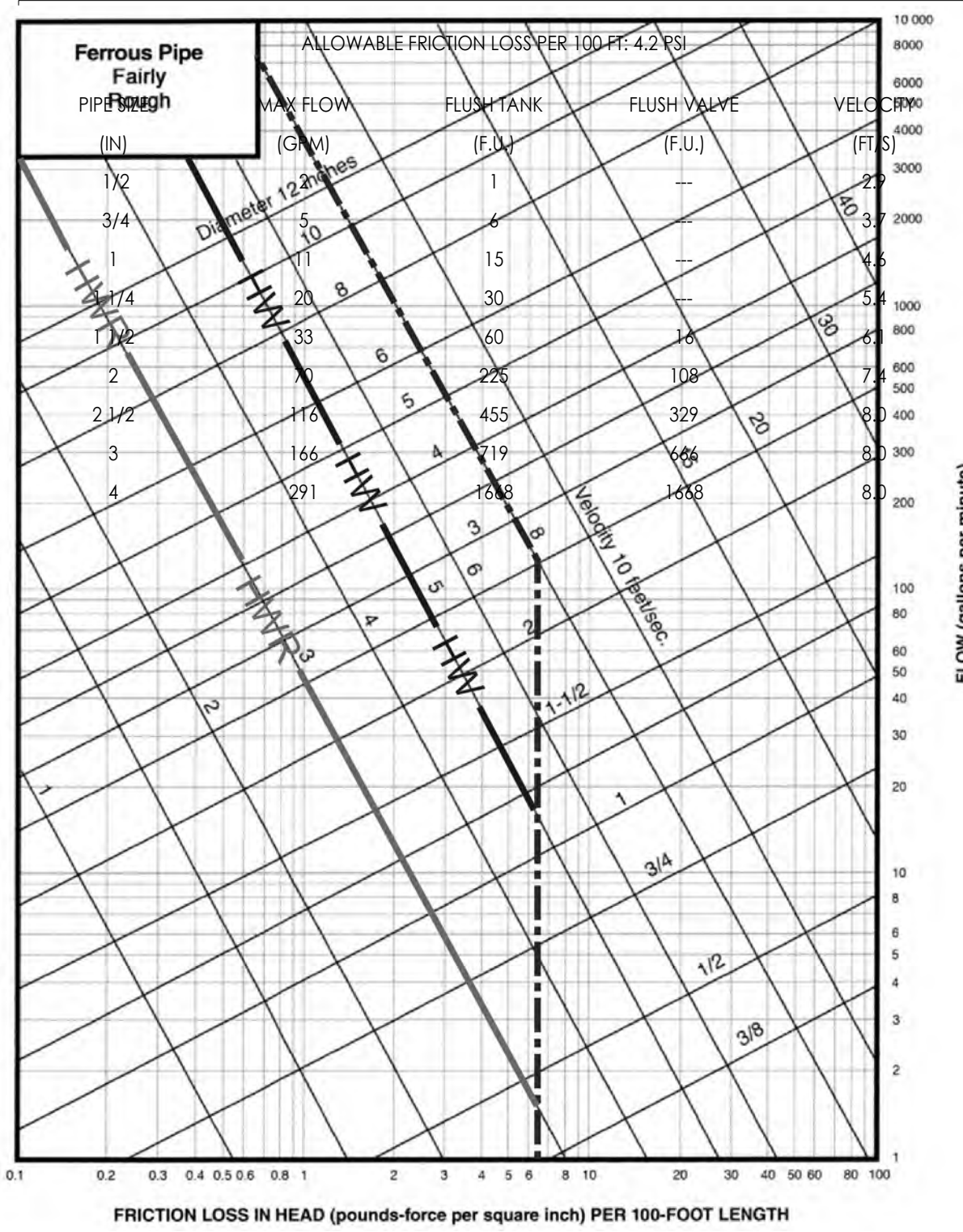


3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361

# DOMESTIC WATER CALCULATION

APPLIANCES, APPURTENANCE, OR FIXTURES	QUANTITY	WSFU	
		PUBLIC	TOTAL
CLOTHES WASHER	3	4	12
DRINKING FOUNTAIN OR WATERCOOLER	6	0.5	3
HOSE BIBB	1	2.5	2.5
HOSE BIBB, EACH ADDITIONAL	4	1	4
LAVATORY	2	1	2
LAUNDRY SINK	3	1.5	4.5
SERVICE SINK OR MOP BASIN	1	3	3
WATER CLOSET, 1.6 GPF FLUSHOMETER VALVE	2	5	10
APPENDIX C	1	413	413
CUSTOM	0	0	
CUSTOM	0	0	
TOTAL FIXTURE UNITS:			454
TOTAL SYSTEM GPM:			115

MINIMUM RESIDUAL PRESSURE	75.0 psi	STATIC HEAD:	35.0'
STATIC HEAD:	15.1 psi	STATIC HEAD:	15.1'
REQUIRED PRESSURE:	25.0 psi		
RPPA:	0.0 psi	TOTAL DEVELOPED LENGTH:	437.0'
WATER SOFTENER:	0.0 psi	25% FITTING LENGTH:	109.3'
2" WATER METER:	11.8 psi	TOTAL EQUIVALENT LENGTH:	546.3'
PRES. AVAILABLE FOR FRICTION LOSS:	23.2 psi		



### PRESSURE VERIFICATION

CONTRACTOR SHALL VERIFY EXACT RESIDUAL PRESSURE ON SITE. IF MINIMUM RESIDUAL PRESSURE LISTED IS NOT MET, NOTIFY ARCHITECT, ENGINEER, AND OWNER IMMEDIATELY. IF INCOMING STATIC PRESSURE IS OVER 90 PSI, PROVIDE LINE SIZE SHUTOFF VALVE, UNION, STRAINER, PRV, UNION, AND SHUTOFF VALVE. PRV SHALL BE EQUAL TO ZURN/WILKINS 500XL. PRV SHALL NOT EXCEED 15 PSI FALLOFF AT FULL GPM FLOW. PROVIDE SHOP DRAWINGS OF PRV DESIGN FOR ENGINEER REVIEW PRIOR TO CONSTRUCTION.

# FIXTURE SCHEDULE

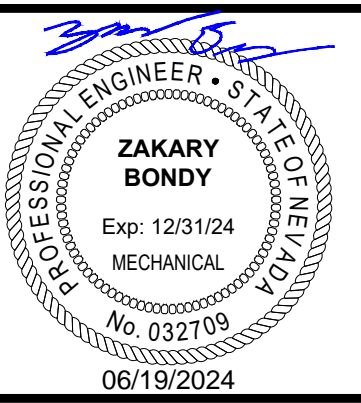
TAG	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	SPECIFICATION	ROUGH-IN CONNECTION SIZE			
					WASTE	VENT	HOT WATER	COLD WATER
CB-1	CLOTHES WASHER UTILITY BOX	IPS/GUY GRAY	85708	WHITE PLASTIC WATER AND DRAIN OUTLET BOX. QUARTER TURN SHUTOFF VALVES COMPLETE WITH WATER HAMMER ARRESTORS. PROVIDE FIRE RATED ADJUSTMENTS AS REQUIRED BY ARCHITECTURAL WALL TYPES.	2"	1-1/2"	3/4"	3/4"
DSN-1	DOWNSPOUT NOZZLE	JR SMITH	1770NB	DOWNSPOUT NOZZLE, NICKEL BRONZE BODY WITH FACE OF WALL FLANGE AND OUTLET NOZZLE.	SEE PLANS	-	-	-
FCO	FLOOR CLEANOUT	JR SMITH	4020-U	ADJUSTABLE FLOOR CLEANOUT. DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT THREAD PLUG AND ROUND NICKEL BRONZE TOP COMPLETE WITH VANDAL PROOF SCREWS.	SEE PLANS	-	-	-
FD-1	FLOOR DRAIN (PUBLIC)	JR SMITH	2005-HP-U	DURA-COATED CAST IRON BODY FLOOR DRAIN WITH 5" ROUND, NICKEL BRONZE ADJUSTABLE LEVELING STRAINER TOP WITH SQUARE HEEL-PROOF OPENINGS, COMPLETE WITH VANDAL PROOF SCREWS.	2"	1-1/2"	-	1/2"
FD-2	FLOOR DRAIN (MECHANICAL)	JR SMITH	2141	HEAVY DUTY DURA-COATED CAST IRON BODY FLOOR DRAIN WITH 12" ROUND IRON BAR GRATE.	4"	2"	-	1/2"
GCO	GRADE CLEANOUT	JR SMITH	4250-NB-U	HEAVY DUTY GRADE CLEANOUT HOUSING. DURA-COATED CAST IRON BODY WITH NICKEL BRONZE TOP COMPLETE WITH VANDAL PROOF SCREWS. PROVIDE WITH SPEED-SET OUTLET JR SMITH 4262-NB COMPLETE WITH GASKET SEAL AND BRONZE PLUG.	SEE PLANS	-	-	-
HB-1	HOSE BIBB (EXTERIOR EXPOSED)	WOODFORD	65-CC	AUTOMATIC DRAINING FREEZELESS HOSE BIBB WITH VACUUM BREAKER WITH LOOSE TEE KEY OPERATION. PROVIDE CLOSE COUPLED INLET. COORDINATE WALL THICKNESS PRIOR TO ORDERING.	-	-	-	3/4"
HB-2	HOSE BIBB (INTERIOR EXPOSED)	WOODFORD	24	CHROME HOSE BIBB WITH VACUUM BREAKER AND WHEEL HANDLE. MOUNT HOSE BIBBS AT 36" ABOVE FINISHED FLOOR.	-	-	-	3/4"
HD-1	HUB DRAIN	-	-	OPEN CAST IRON DRAIN PIPE 6" X 18". PROVIDE PER HUB DRAIN DIAGRAM.	4"	2"	-	1/2"
IB-1	ICE MACHINE UTILITY BOX	IPS/GUY GRAY	87978	WHITE PLASTIC WATER OUTLET BOX. QUARTER TURN SHUTOFF VALVE COMPLETE WITH WATER HAMMER ARRESTOR. PROVIDE FIRE RATED ADJUSTMENTS AS REQUIRED BY ARCHITECTURAL WALL TYPES.	-	-	-	1/2"
L-1	LAVATORY (ADA) (COUNTER MOUNT)	AMERICAN STANDARD	0475.020	20-3/8" X 17-3/8" AQUALYN COUNTERTOP VITREOUS CHINA LAVATORY. PROVIDE WITH AMERICAN STANDARD 2275.503 COLONY SOFT TWO HANDLE CENTERSET FAUCET 1.2 GPM AND GRID STRAINER. COORDINATE FAUCET HOLES PRIOR TO ORDERING. PROVIDE WITH MCGUIRE PW2125 PRE-INSULATED P-TRAP WITH STOP AND SUPPLY INSULATING PROTECTORS. COORDINATE EXACT P-TRAP FITTING REQUIREMENTS WITH ADA PRIOR TO ORDERING.	2"	1-1/2"	1/2"	1/2"
L-2	LAVATORY (ADA) (WALL MOUNT)	AMERICAN STANDARD	0356.041	21"X19" WALL MOUNTED VITREOUS CHINA LAVATORY COMPLETE WITH CONCEALED WALL CARRIER. PROVIDE WITH AMERICAN STANDARD 7385.003 SINGLE CONTROL 0.5 GPM FAUCET FAUCET AND GRID STRAINER. COORDINATE FAUCET HOLES PRIOR TO ORDERING. PROVIDE WITH MCGUIRE PW2125 PRE-INSULATED P-TRAP WITH STOP AND SUPPLY INSULATING PROTECTORS. COORDINATE EXACT P-TRAP FITTING REQUIREMENTS WITH ADA PRIOR TO ORDERING. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT.	2"	1-1/2"	1/2"	1/2"
MV-1	MIXING VALVE (POINT-OF-USE)	ACORN	S770-12	POINT-OF-USE THERMOSTATIC MIXING VALVE WITH INTEGRAL CHECKSTOPS AND INTEGRAL WALL MOUNT. VALVE SHALL BE ASSE 1070 CERTIFIED. SERVICE FOR ALL PUBLIC LAVATORIES AND SINKS. SET OUTLET TEMPERATURE TO 110°. 0.25 GPM MINIMUM FLOW. 2.6 GPM FLOW AT 15 PSI FALLOFF.	-	-	1/2"	1/2"
ORD-1	OVERFLOW ROOF DRAIN	JR SMITH	1080-C-R-CID	OVERFLOW ROOF DRAIN. DURA-COATED CAST IRON BODY AND DOME WITH SUMP RECEIVER, UNDERDECK CLAMPS AND 2" EXTERNAL WATER DAM. PROVIDE EXTENSIONS WHERE REQUIRED. OVERFLOW DRAINS TO BE SIZED THE SAME AS PAIRING ROOF DRAIN.	SEE PLANS	-	-	-
RD-1	ROOF DRAIN	JR SMITH	1010Y-C-R-CID	ROOF DRAIN. DURA-COATED CAST IRON BODY AND DOME WITH SUMP RECEIVER AND UNDERDECK CLAMPS. PROVIDE EXTENSIONS WHERE REQUIRED.	SEE PLANS	-	-	-
S-1	SINK (ADA) (SINGLE) (COUNTER MOUNT)	ELKAY	DLR5332210	33" X 22" X 10-1/8" COUNTER MOUNT SINGLE COMPARTMENT STAINLESS STEEL SINK. PROVIDE WITH ELKAY LK2477CR DECK MOUNT AND LEVER HANDLES 1.5 GPM. FAUCET AND ELKAY LK99 STRAINER. COORDINATE FAUCET HOLES PRIOR TO ORDERING. PROVIDE WITH MCGUIRE PW2125 PRE-INSULATED P-TRAP WITH STOP AND SUPPLY INSULATING PROTECTORS. COORDINATE EXACT P-TRAP FITTING REQUIREMENTS WITH ADA PRIOR TO ORDERING.	2"	1-1/2"	1/2"	1/2"
S-2	LAUNDRY SINK	MUSTEE	18F	24"X20 FLOOR MOUNT COMPOSITE UTILITY SINK WITH STEEL ADJUSTABLE LEVELING LEGS COMPLETE WITH T&S B-2866-05-1F15 DECK MOUNTED RIGID GOOSENECK 1.5 GPM FAUCET. PROVIDE WITH MCGUIRE 17 GAUGE CAST BRASS P-TRAP.	2"	1-1/2"	1/2"	1/2"
S-3	SINK (ADA) (SINGLE)	ELKAY	ESE202010	20" X 20" X 10-1/8" SINGLE COMPARTMENT STAINLESS STEEL DROP IN SINK. PROVIDE WITH ELKAY LK2477CR DECK MOUNT AND LEVER HANDLES 1.5 GPM. FAUCET AND ELKAY LK99 STRAINER. COORDINATE FAUCET HOLES PRIOR TO ORDERING. PROVIDE WITH MCGUIRE PW2125 PRE-INSULATED P-TRAP WITH STOP AND SUPPLY INSULATING PROTECTORS. COORDINATE EXACT P-TRAP FITTING REQUIREMENTS WITH ADA PRIOR TO ORDERING.	2"	1-1/2"	1/2"	1/2"
SH-1	SHOWER	SYMMONS	9601-PLR-1.5-X	SHOWER VALVE ONLY. 1.5 GPM MAX FLOW. WALL MOUNTED INSTITUTIONAL SHOWER HEAD. INTEGRAL CHECK STOPS AND HIGH-LIMIT STOP. REFER TO ARCHITECTURAL FOR SHOWER ENCLOSURE DETAILS AND ADDITIONAL ACCESSORIES. PROVIDE FD-1 IN SHOWER FLOOR.	2"	1-1/2"	1/2"	1/2"
WC-1	WATER CLOSET (TANK TYPE) (ADA)	AMERICAN STANDARD	209AA137	ADA HEIGHT FLOOR MOUNTED TANK TYPE ELONGATED VITREOUS CHINA WATER CLOSET. 1.28 GPF. PROVIDE WITH HEAVY DUTY AMERICAN STANDARD 5055A6SC ELONGATED SLOW CLOSE SOLID PLASTIC SEAT AND COVER.	4"	2"	-	1/2"
WC-2	WATER CLOSET (TANK TYPE) (ADA)	AMERICAN STANDARD	209AA137	ADA HEIGHT FLOOR MOUNTED TANK TYPE ELONGATED VITREOUS CHINA WATER CLOSET. 1.28 GPF. PROVIDE WITH HEAVY DUTY AMERICAN STANDARD 5901100 ELONGATED HEAVY DUTY OPEN FRONT SEAT.	4"	2"	-	1/2"
WCO	WALL CLEANOUT	JR SMITH	4422-U	ROUND STAINLESS STEEL FLAT/FLUSH WALL ACCESS COVER COMPLETE WITH SECURING SCREW AND BRONZE RAISED HEX HEAD PLUG. COMPLETE WITH VANDAL PROOF SCREWS. COORDINATE HEIGHT WITH FLOOR BASE.	SEE PLANS	-	-	-

REMARKS:  
COORDINATE FINAL SELECTIONS AND FINISHES OF ALL FINISH PLUMBING FIXTURES WITH ARCHITECT AND OWNER PRIOR TO ORDERING.  
COORDINATE ADA REQUIREMENTS WITH ARCHITECT FOR UNITS PRIOR TO ORDERING.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
**SCHEDULES**

PERMIT

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: RE  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
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**(R)EVOLUTION ENGINEERING**  
3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361

INSULATION/JACKETING SCHEDULE				
SPECIFICATION				
P-1	MOLDED GLASS FIBER PIPE INSULATION, ASTM C547 THERMAL CONDUCTIVITY: 0.23 AT 75 DEGREES F OPERATING TEMPERATURE RANGE: 0 TO 850 DEGREES F VAPOR BARRIER JACKET: ASTM C1136, TYPE I, FACTORY APPLIED REINFORCED FOIL KRAFT WITH SELF-SEALING ADHESIVE JOINTS JACKET TEMPERATURE LIMIT: MINUS 20 TO 150 DEGREES F			
P-2	FLEXIBLE ELASTOMERIC INSULATION, ASTM C534 CLOSED-CELL, SPONGE- OR EXPANDED-RUBBER MATERIALS			
J-1	PVC PLASTIC PIPE JACKET, ASTM D1784 ONE PIECE MOLDED TYPE FITTING COVERS AND SHEET MATERIAL COLOR: OFF-WHITE THICKNESS: 10 MIL. CONNECTIONS: TACKS.			
ACCEPTABLE MANUFACTURERS: KNAUF, JOHNS MANVILLE, OWENS-CORNING, MANSON INDUSTRIES, INC.				
INSULATION				
SERVICE	LOCATION	SIZES	SPEC	THICKNESS
DOMESTIC COLD, HOT, AND RECIRCULATED WATER	ALL	1-1/2" AND SMALLER	P-1	1-1/2"
DOMESTIC COLD, HOT, AND RECIRCULATED WATER	ALL	2" AND LARGER	P-1	2"
STORM DRAIN	ABOVE GRADE	ALL	P-1	1-1/2"
ADA GUARDS	ALL	ALL	PER FIXTURE SCHEDULE	PER FIXTURE SCHEDULE
0-10 FT OF RECEIVING DISCHARGE BELOW 60°F	ABOVE GRADE	ALL	P-2	3/4"
JACKETING				
SERVICE	LOCATION	SIZES	ISULATION	SPEC
ANY	INTERIOR CONCEALED	ALL	P-1	FACTORY APPLIED FOIL
ANY	INTERIOR CONCEALED	ALL	P-2	NONE
ANY	INTERIOR EXPOSED	ALL	ALL	J-1
REMARKS: 1. PIPING MARKERS SHALL STILL BE VISIBLE WITH INSULATION AND JACKETING. 2. PROVIDE HEAT TRACE WHERE NOTED ON PLANS. 3. PIPING MATERIALS INSTALLED IN PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50. 4. ALL ADA FIXTURES SHALL HAVE INSULATED PROTECTIVE COVERS FOR P-TRAPS AND SUPPLIES. 5. COORDINATE WASTE OFFSETS WITH INSULATION AND ARCHITECTURAL ADA APPROACH TYPES PRIOR TO CONSTRUCTION. 6. WHEN POSSIBLE, ALL INSULATION AND JACKETING SHALL BE SEALED WHERE NOT VISIBLE FROM OCCUPIED SPACE. 7. ALL FITTINGS, VALVES AND ACCESSORIES SHALL ALSO BE INSULATED.				

MAXIMUM FIXTURE FLOW RATES		
FIXTURE	LOCATION/TYPE	MAXIMUM FLOW ALLOWED
LAVATORY FAUCET	PRIVATE	1.5 GPM
LAVATORY FAUCET	PUBLIC	0.5 GPM
SINK FAUCET	NO SIDE SPRAY	1.8 GPM
SINK FAUCET	WITH SIDE SPRAY	2.2 GPM
SHOWER HEAD	ANY	2.0 GPM
WATER CLOSET	ANY	1.28 GPF
REMARKS: 1. ALL FIXTURE FLOW RATES SHALL COMPLY WITH TITLE 25, CH. 25.10.050 OF THE CLARK COUNTY CODE AND 2018 UPC. 2. CONTRACTOR SHALL PROVIDE FLOW RESTRICTIONS ON ANY FIXTURE THAT EXCEEDS THE VALUE LISTED HERE. 3. ALL FIXTURES SHALL BE WATERSENSE CERTIFIED BY THE UNITED STATES ENVIRONMENT PROTECTION AGENCY. 4. FIXTURE LOCATION/TYPES ARE PER 2018 UPC CHAPTER 2. 5. FOR ANY COMMERCIAL/INDUSTRIAL FOOD SERVICE WATER USAGE REQUIREMENTS, REFER TO FOOD SERVICE PLANS.		

WATER HEATER SCHEDULE														
TAG	ITEM	MANUFACTURER	MODEL NUMBER	LOCATION	SERVICE	RECIRCULATION PUMP	MIXING VALVE	EXPANSION TANK	HEATING CAPACITY	POWER SOURCE	REMARKS	ELECTRICAL		
												AMPS	PHASE	VOLTS
WH 1	GAS TANKLESS WATER HEATER	RINNAI	RU199I	STORAGE	UNIT	CP-1	MV-1 (POINT-OF-USE)	ET-1	0.4 GPM ACTIVATION 4.5 GPM SUPPLY AT 90°F RISE.	199 CFH NATURAL GAS.	INSTALL PER MANUFACTURERS RECOMMENDATIONS, PROVIDE WITH DIRECT VENT KIT.	4	1	120
WH 2	ELECTRIC TANK WATER HEATER	AO SMITH	DEL-50	LAUNDRY ROOM	LAUNDRY	CP-2	MV-1 (POINT-OF-USE)	ET-2	50 GALLON STORAGE. 36 GPH RECOVERY AT 100°F RISE. 140°F SET STORAGE.	2 ELEMENTS, 4,500 WATTS PER ELEMENT, SIMULTANEOUS OPERATION.	INSTALL PER MANUFACTURERS RECOMMENDATIONS, PROVIDE 4" HOUSEKEEPING PAD WITH 1" CHAMFERED EDGES.	43.2	1	208

TANK SCHEDULE										
TAG	ITEM	MANUFACTURER	MODEL NUMBER	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAX PRESSURE (PSI)	PRE-CHARGE PRESSURE (PSI)	REMARKS	
ET-1	EXPANSION TANK	AMTROL	ST-1	WH-1	-	-	150	PERMANENT AIR CELL	COORDINATE 4" HOUSEKEEPING PAD WITH 1" CHAMFERED EDGES WHEN FLOOR MOUNTED.	
ET-2	EXPANSION TANK	AMTROL	ST-5	WH-2	2	0.9	150	50	COORDINATE 4" HOUSEKEEPING PAD WITH 1" CHAMFERED EDGES WHEN FLOOR MOUNTED.	

PUMP SCHEDULE													
TAG	ITEM	MANUFACTURER	MODEL NUMBER	TYPE	QUANTITY OF PUMPS	TOTAL FLOW (GPM)	HEAD (FT)	LOCATION	SERVICE	REMARKS	ELECTRICAL		
											HP	PHASE	VOLTS
CP 1	RECIRCULATING PUMP	BELL AND GOSSETT	ECOCIRC XL36-45	IN-LINE	1	3	25	STORAGE	WH-1	PUMP SHALL BE APPROVED FOR DOMESTIC WATER USE. INTERCONNECT PUMP TO AQUASTAT WITH 10°F DELTA T RETURN TEMPERATURE. INSTALL PUMP PER MANUFACTURER'S RECOMMENDATIONS.	1/6	1	115
CP 2	RECIRCULATING PUMP	BELL AND GOSSETT	ECOCIRC XL36-45	IN-LINE	1	5	25	LAUNDRY	WH-2	PUMP SHALL BE APPROVED FOR DOMESTIC WATER USE. INTERCONNECT PUMP TO AQUASTAT WITH 10°F DELTA T RETURN TEMPERATURE. INSTALL PUMP PER MANUFACTURER'S RECOMMENDATIONS.	1/6	1	115
SP 1	SUMP PUMP	LIBERTY	ELV290	SUMP PUMP	1	50	35	ELEVATOR SHAFT	ELEVATOR	PROVIDE WITH MANUFACTURER PUMP CONTROLLER, AND OIL SENSOR ALARM, COORDINATE FINAL LOCATION WITH ELEVATOR PIT. PROVIDE WITH FLOAT SWITCHES AND HIGH LEVEL ALARM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	3/4	1	115

FIXTURE SCHEDULE - POWERED											
TAG	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	SPECIFICATION	ROUGH-IN CONNECTION SIZE				ELECTRICAL		
					WASTE	VENT	HOT WATER	COLD WATER	AMPS	PHASE	VOLTS
DF 1	DRINKING FOUNTAIN (ADA) (BI-LEVEL)	MURDOCK	A1324005-VR-BF4	BI-LEVEL WALL HUNG DRINKING FOUNTAIN WITH RECESSED BOTTLE FILLER COMPLETE WITH STAINLESS BUBBLERS AND FRONT PUSHBUTTONS. NON-FILTERED AND ON-REFRIGERATED. PROVIDE WITH MANUFACTURER'S MOUNTING KIT.	2"	1-1/2"	-	1/2"	1	1	120
TP 1A-D	TRAP PRIMER (TIMER)	JR SMITH	273	SURFACE MOUNT ELECTRONIC TRAP PRIMER ASSEMBLY WITH 1-4 OUTLETS. PROVIDE OUTLETS AS REQUIRED ON PLANS.	-	-	-	1/2"	1	1	120

PIPE MATERIAL SCHEDULE						
SERVICE	LOCATION	SIZES	PIPE MATERIAL	JOINTS	FITTINGS	REMARKS
DOMESTIC COLD AND HOT WATER	ABOVE GRADE	3" AND SMALLER	HARD DRAWN TYPE L COPPER	SOLDER	WROUGHT COPPER	SOLDER WITH 95-5 TIN-ANTIMONY
DOMESTIC COLD AND HOT WATER	ABOVE GRADE	3" AND SMALLER	PEX-A OR B	COLD EXPANSION OR BRASS CRIMP	BRASS	APPROVED MANUFACTURERS: UPONOR, REHAU, WATTS, OR VIEGA.
DOMESTIC COLD AND HOT WATER	BELOW GRADE	ALL	PEX-A OR B	COLD EXPANSION OR STAINLESS STEEL CRIMP	POLY-ALLOY BY MANUFACTURER	APPROVED MANUFACTURERS: UPONOR, REHAU, WATTS, OR VIEGA. SYSTEM SHALL BE APPROVED FOR DIRECT BURY BELOW THE FROST LINE.
DOMESTIC COLD BUILDING SUPPLY	BELOW GRADE	ALL	SOLID WALL SCHEDULE 40 PVC	SOLVENT WELD	SCHEDULE 40 PVC	NOT FOR WATER DISTRIBUTION PIPING.
DOMESTIC COLD AND HOT WATER	BELOW GRADE	ALL	SOFT DRAWN TYPE K COPPER	SOLDER	WROUGHT COPPER	SOLDER WITH 95-5 TIN-ANTIMONY
NATURAL GAS	ABOVE GRADE	2-1/2" AND SMALLER	BLACK IRON SCHEDULE 40 STEEL	THREADED	WROUGHT IRON	ALL PIPING EXPOSED TO THE ELEMENTS SHALL BE PAINTED. PIPING ROUTED IN RETURN AIR PLENUMS SHALL HAVE BLACK FORGED STEEL SOCKET OR WELD END FITTINGS.
NATURAL GAS	ABOVE GRADE	3" AND LARGER	BLACK IRON SCHEDULE 40 STEEL	WROUGHT IRON WELDED	WROUGHT IRON	-
PUMPED DISCHARGE	ABOVE GRADE	ALL	SOLID WALL SCHEDULE 40 PVC	SOLVENT WELD	SCHEDULE 40 PVC	-
WASTE AND VENT	ABOVE GRADE	ALL	CAST IRON	NO-HUB ASTM C 564 & 1540	CAST IRON	CAST IRON SHALL MEET THE BUY AMERICAN ACT. NO-HUB COUPLINGS SHIELDS SHALL BE A MINIMUM OF 32 GAUGE.
WASTE AND VENT	BELOW GRADE	ALL	SOLID WALL SCHEDULE 40 PVC	SOLVENT WELD	SCHEDULE 40 PVC	-
REMARKS: 1. ALL PIPING SHALL BE IDENTIFIED WITH PLASTIC PIPE MARKERS. MARKERS SHALL BE PREPRINTED WITH PRESSURE SENSITIVE PERMANENT ADHESIVE AND COLOR CODED IN COMPLIANCE WITH ANSI A13.1. SERVICE AND FLOW DIRECTION SHALL BE INDICATED. DISTANCE BETWEEN IDENTIFICATION LOCATIONS SHALL NOT EXCEED 25 FEET. IDENTIFICATION SHALL BE LOCATED AT EACH VALVE, RUNOUT, EQUIPMENT CONNECTION, AND ON BOTH SIDES OF AN OBSTRUCTION. 2. PROVIDE A 6 MILLIMETER POLYETHYLENE SLEEVE SYSTEM FOR COPPER PIPING BELOW GRADE. 3. PIPING MATERIALS INSTALLED IN PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50.						

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PROJECT: SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106  
SHEET TITLE: SCHEDULES

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No.	Description	Date

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SHEET  
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### NOTICE

A. REFER TO P3.10 FOR GAS METER LOCATIONS.

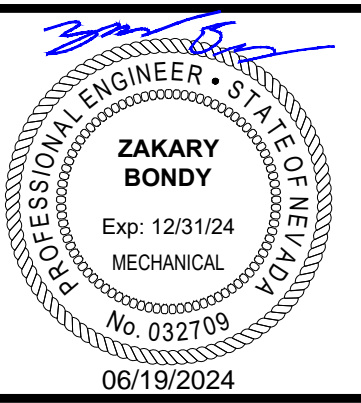
### SHEET NOTES

- ① 2-1/2" COLD WATER TO CIVIL, 115 GPM.
- ② CONNECT 6" WASTE TO CIVIL, IE = -4.83'.
- ③ CONNECT 6" WASTE TO CIVIL, IE = -5.20'.



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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
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**SHEET TITLE:**  
OVERALL PLUMBING PLAN - LOCATION PLAN

**PERMIT**

#### REVISIONS

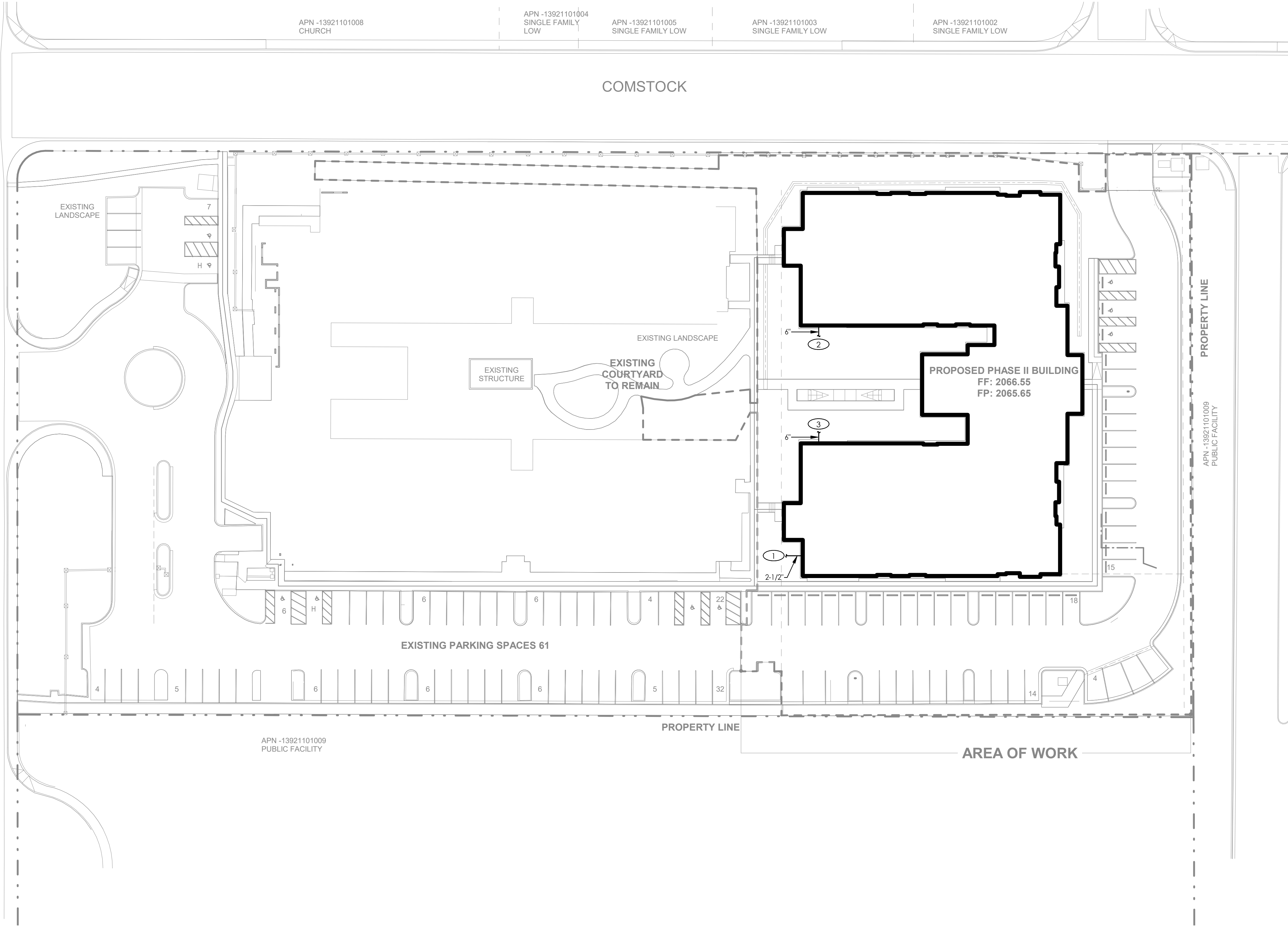
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P1.00

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**1 OVERALL PLUMBING PLAN - LOCATION PLAN**  
SCALE: 1" = 30'-0"



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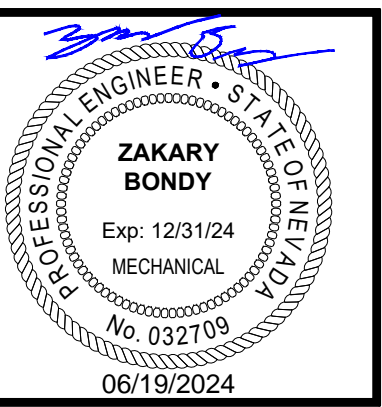
### SHEET NOTES

- 1 CONNECT 6" WASTE TO CIVIL, IE = -4.83'.
- 2 CONNECT 6" WASTE TO CIVIL, IE = -5.20'.
- 3 WASTE AND VENT TO FROM FIXTURE. SIZE PER FIXTURE SCHEDULE.
- 4 VENT UP.
- 5 2" PUMPED DISCHARGE FROM ELEVATOR SUMP PUMP. PROVIDE SIGNAGE AT POINT OF DISCHARGE THAT READS AS FOLLOWS: "CAUTION: NON-POTABLE. DO NOT DRINK. ELEVATOR SUMP PUMP DISCHARGE ONLY. DRAIN TO SUITABLE CONTAINER FOR PROPER OFFSITE DISPOSAL." PROVIDE LOCKABLE SHUTOFF VALVE AND THREADED CAP FOR HOSE CONNECTION.
- 6 DISCHARGE T&P TO EXTERIOR WITH LOW TURNED DOWN ELBOW.
- 7 3" STORM DRAIN AND OVERFLOW STORM DRAIN DOWN TO DSN.
- 8 ELEVATOR SHAFT, PIT, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS, AND ALL REQUIRED ELEMENTS UTILIZING OTIS MODEL GEN3 EDGE BY OTIS AS BASIS OF DESIGN. ELEVATOR SHAFT AND PIT SIZES, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS ARE PROVIDED FOR BID PURPOSES ONLY. CONTRACTOR TO CONFIRM SHAFT AND PIT DIMENSIONS, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS AND ALL REQUIRED ELEMENTS REQUIRED FOR COMPLETE INSTALLATION AND OPERATIONS OF THE ELEVATOR WITH THE SELECTED ELEVATOR MANUFACTURER AT TIME OF BID. CONTRACTOR TO PROVIDE ALL ELEMENTS INCLUDING SHAFT AND PIT DIMENSIONS, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL REQUIREMENTS AS A COMPLETE DESIGN SUBMITTAL FOR APPROVAL PRIOR TO ACCEPTANCE AND INSTALLATION OF PROPOSED ELEVATOR AT TIME OF BID. CONTRACTOR TO PROVIDE HIGHEST QUALITY INTERIOR MATERIALS PROVIDED BY MANUFACTURER WITHIN THE BID PROPOSAL. CONTRACTOR SHALL BEAR ALL COSTS REQUIRED FOR ENGINEERING REQUIRED FOR ACCEPTANCE OF PROPOSED ELEVATOR AT TIME OF BID.



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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
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PROJECT:

SHEET TITLE:

**OVERALL WASTE AND VENT PLAN - FIRST FLOOR**

**PERMIT**

REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24

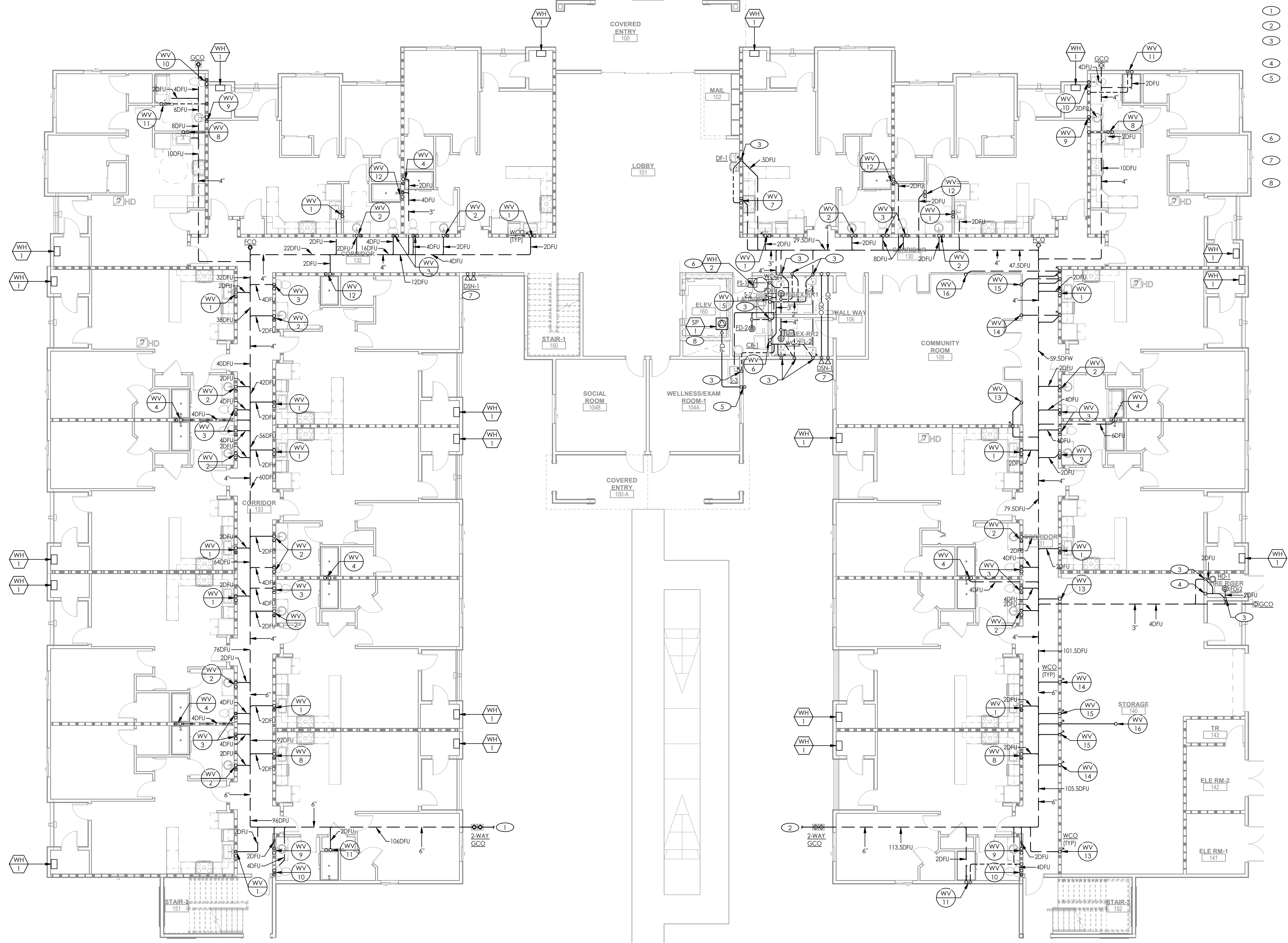
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**P2.10**

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**1 OVERALL WASTE AND VENT - FIRST FLOOR**  
SCALE: 1/8" = 1'-0"

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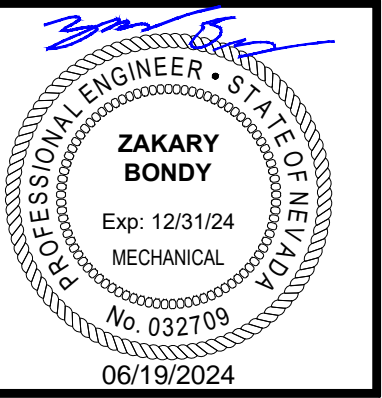
### SHEET NOTES

- ① VENT UP.
- ② COLD WATER TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- ③ HOT WATER AND COLD WATER TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- ④ 3" STORM DRAIN AND OVERFLOW STORM DRAIN DOWN.



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1818 Balzar Ave. Las Vegas, NV 89106

PROJECT:

SHEET TITLE:  
**OVERALL PLUMBING PLAN - SECOND FLOOR**

**PERMIT**

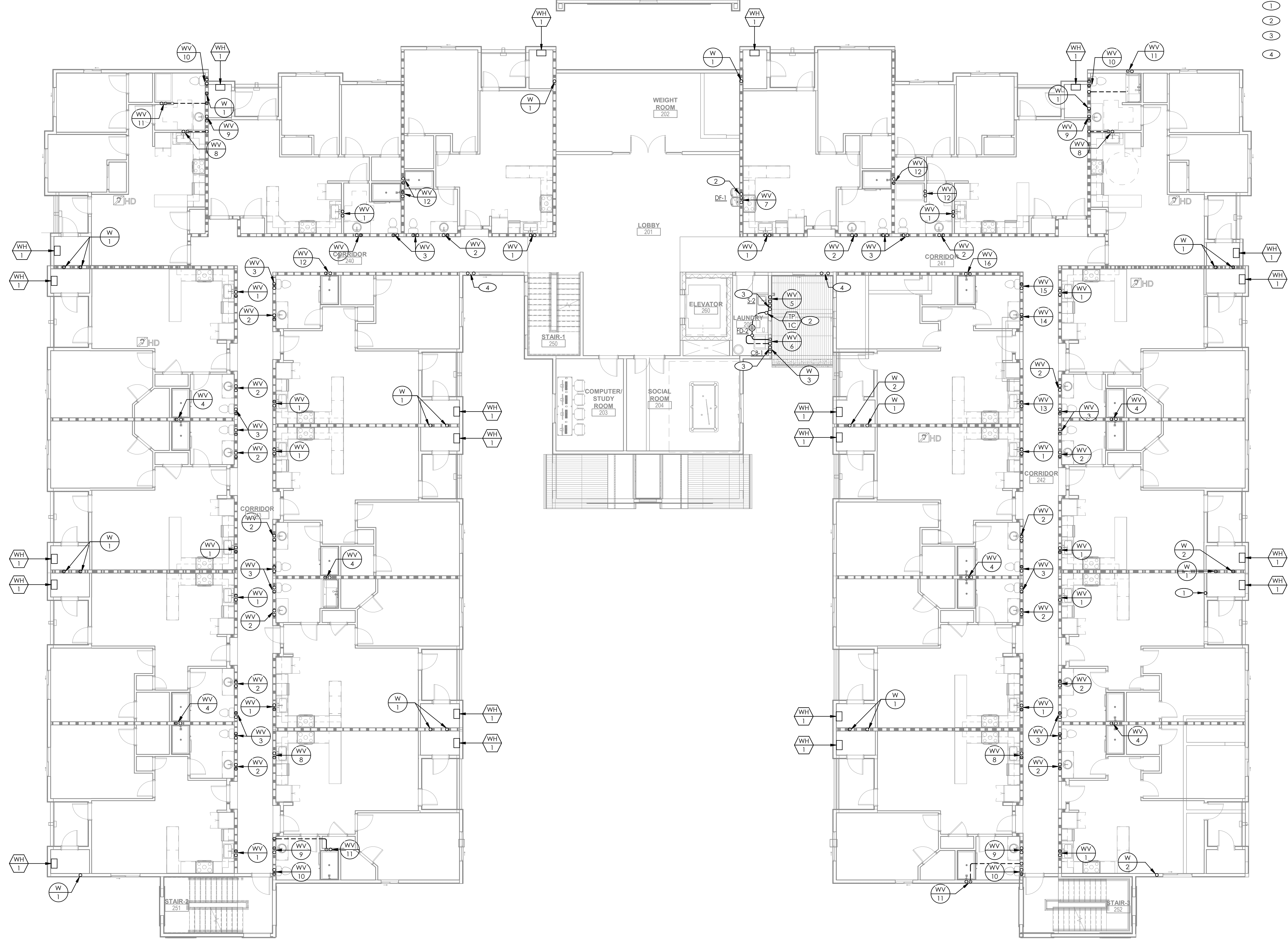
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**P2.20**



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



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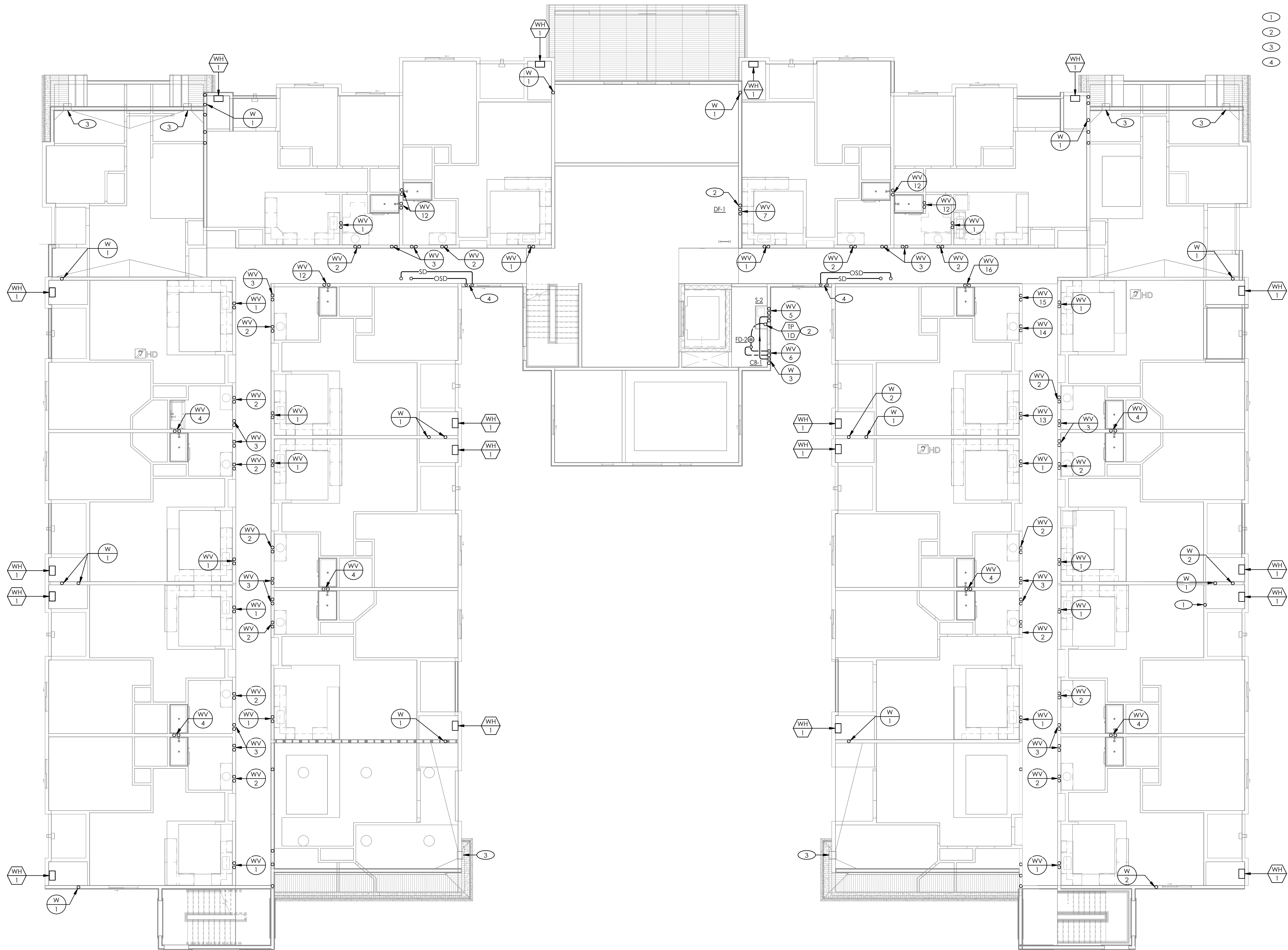
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### SHEET NOTES

- ① VENT UP.
- ② COLD WATER TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- ③ STORM DRAINAGE BY ARCHITECTURAL.
- ④ 3" STORM DRAIN AND OVERFLOW STORM DRAIN DOWN.

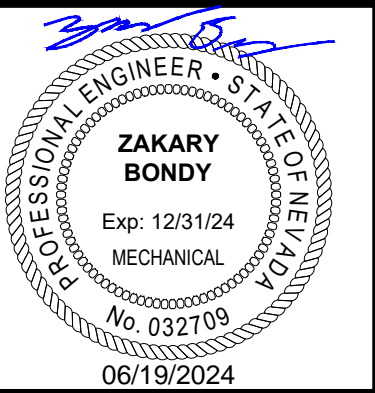


**1** OVERALL PLUMBING PLAN - THIRD FLOOR  
SCALE: 1/8" = 1'-0"



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**SHEET TITLE:**  
OVERALL PLUMBING PLAN - THIRD FLOOR

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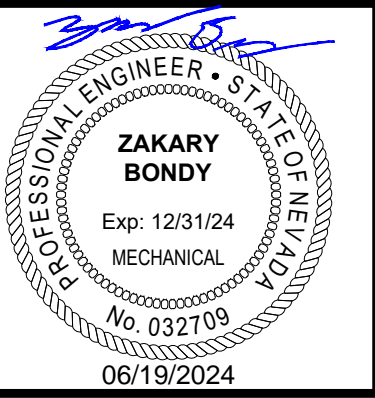
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### SHEET NOTES

- ① COLD WATER UP.
- ② HOT AND COLD WATER DOWN TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- ③ COLD WATER DOWN TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- ④ GAS METER BY UTILITY.
- ⑤ 1-1/4" COLD WATER, 1-1/4" HOT WATER AND 3/4" HOT WATER RETURN TO/FROM WATER HEATER. REFER TO DIAGRAM FOR INFORMATION NOT SHOWN HERE.

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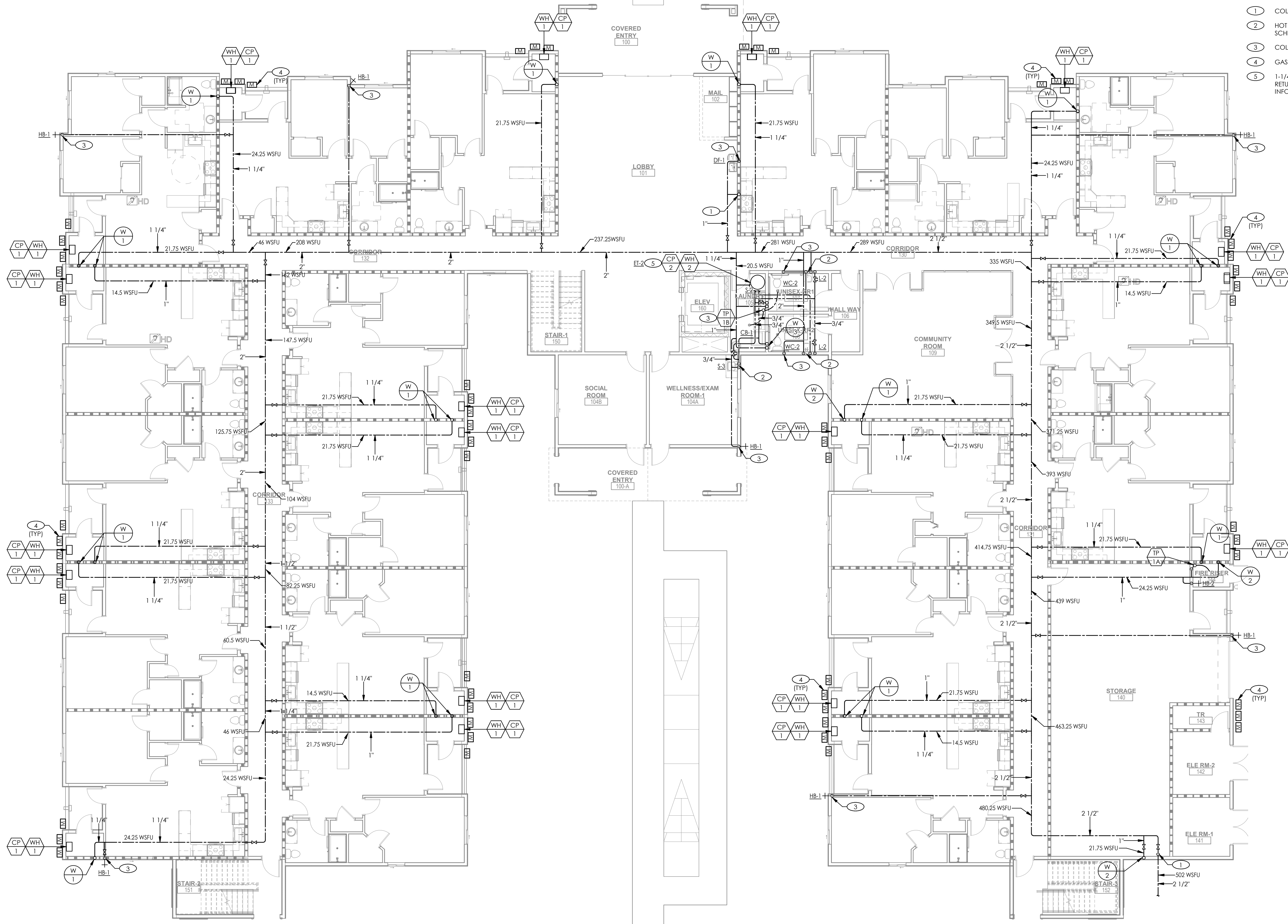
**SHEET TITLE:**  
 OVERALL WATER AND GAS PLAN - FIRST FLOOR

**PERMIT**

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1	CLV COM.	6/21/24

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**1 OVERALL WATER AND GAS - FIRST FLOOR**  
 SCALE: 1/8" = 1'-0"

1

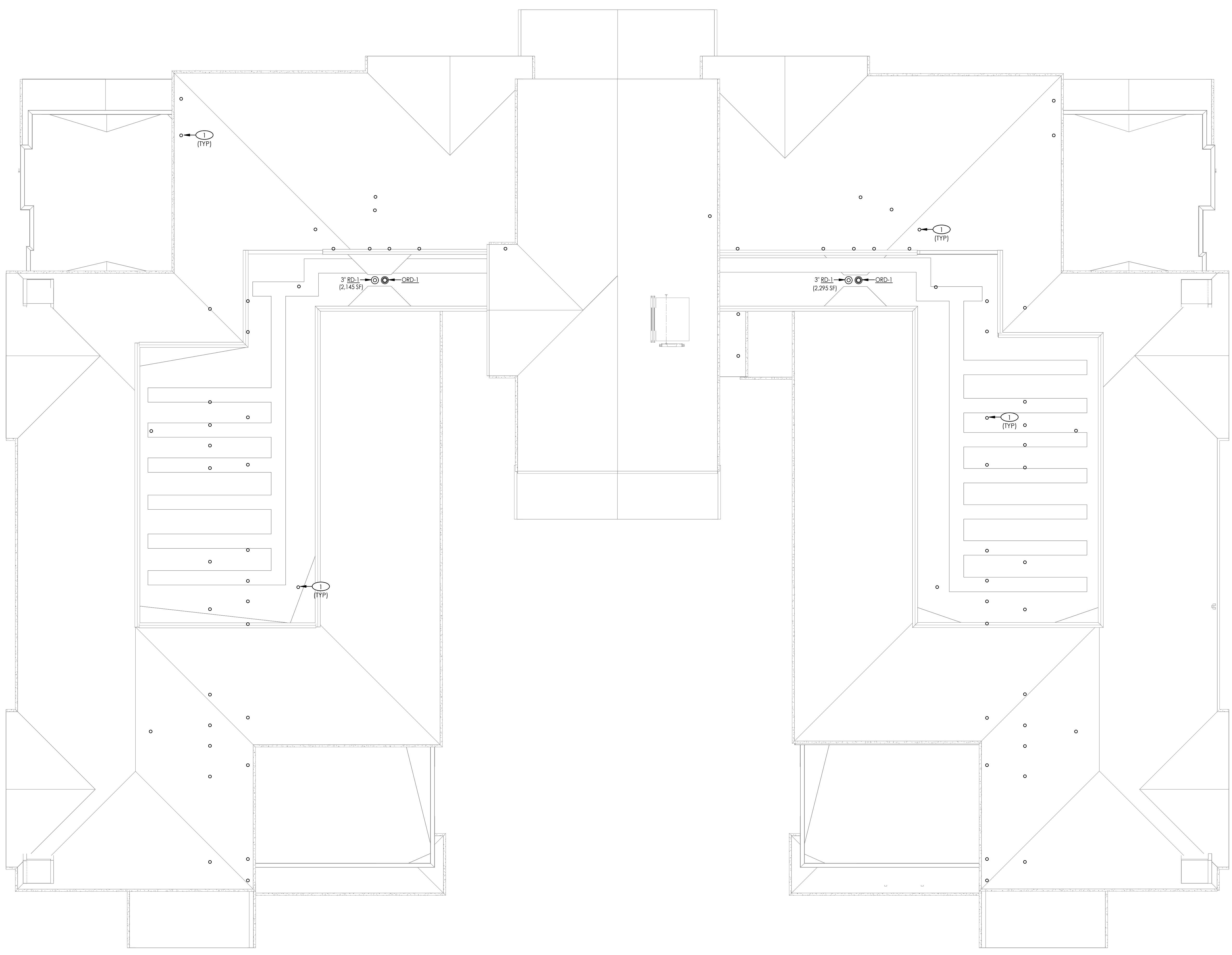
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### NOTICE

- A. OFFSET VENT TERMINATIONS IN CEILING SPACE BELOW AS REQUIRED. MAINTAIN 10' FROM ANY OUTSIDE AIR INTAKES.
- B. COORINATE STORM DRAIN ROUTING ON LEVEL BELOW WITH ARCHITECTURAL POP-OUTS.

### SHEET NOTES

- ① VENT THROUGH ROOF. REFER TO RISER DIAGRAM FRO SIZES.

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 PROFESSIONAL ENGINEER - STATE OF NEVADA  
 MECHANICAL  
 Exp: 12/31/24  
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SHEET TITLE: **OVERALL PLUMBING PLAN - ROOF**

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SHEET **P4.00**

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

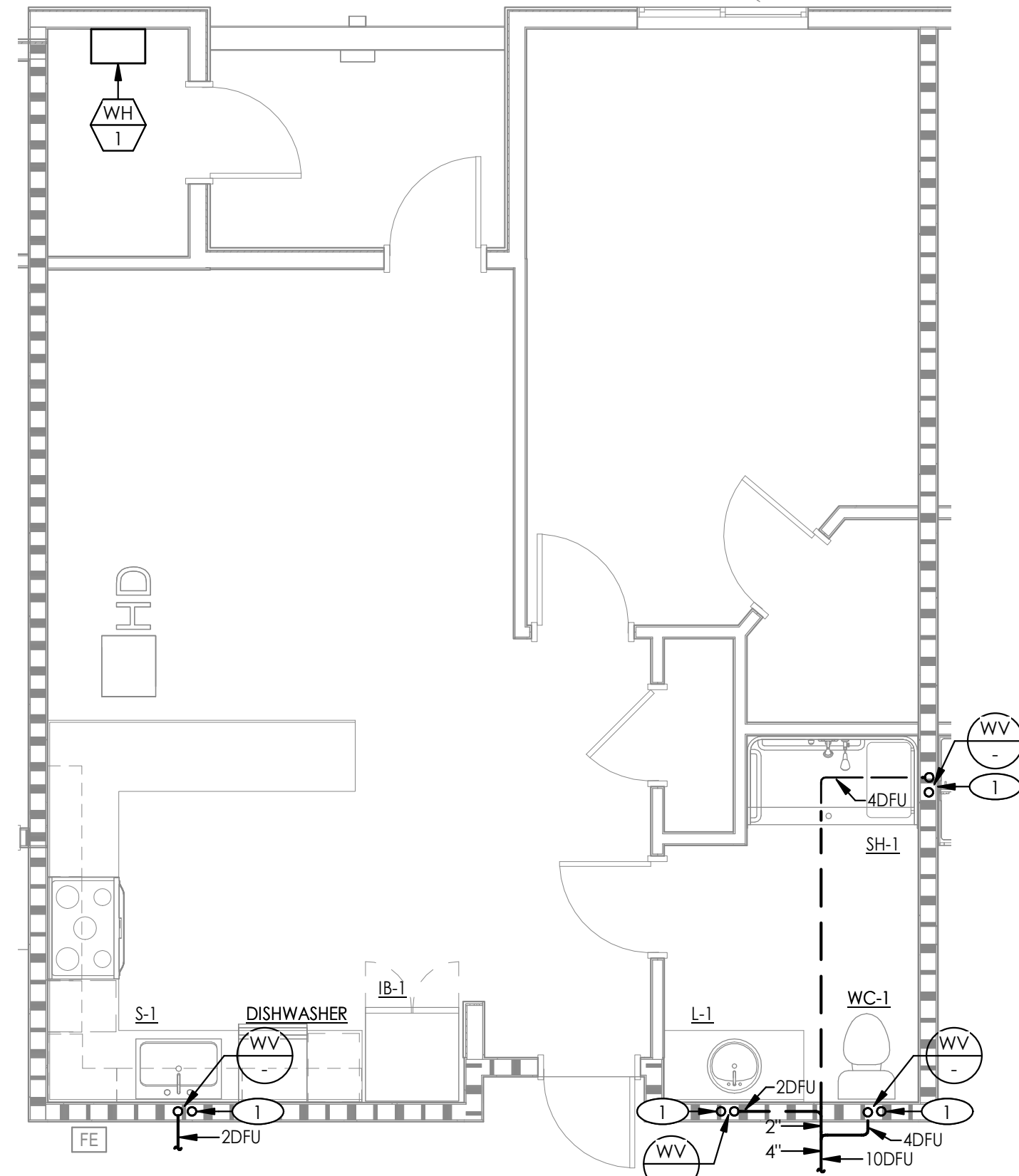
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**NOTICE**

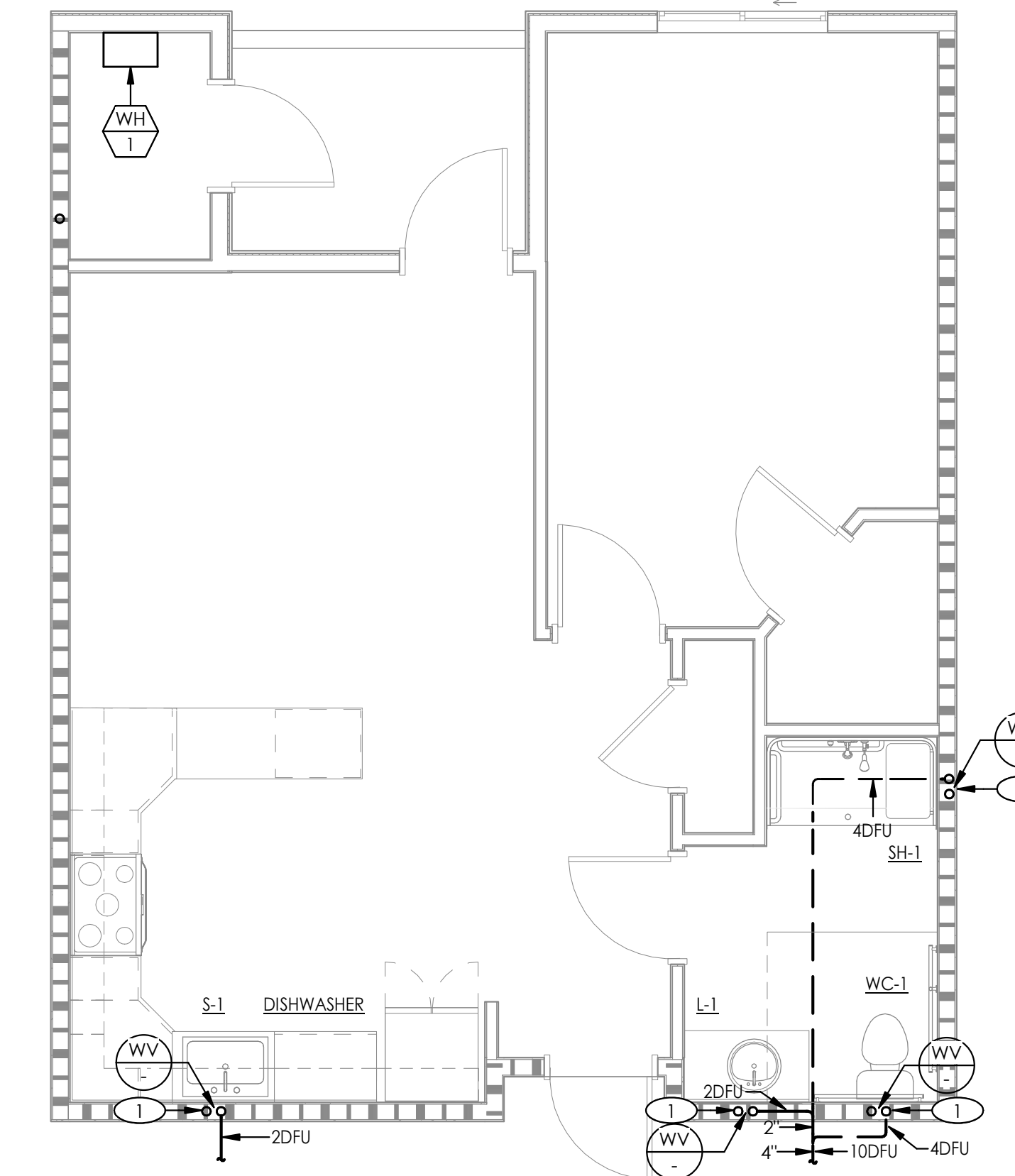
A. DISCHARGE T&P FROM WATER HEATER TO EXTERIOR WITH LOW TURNED DOWN ELBOW.

**SHEET NOTES**

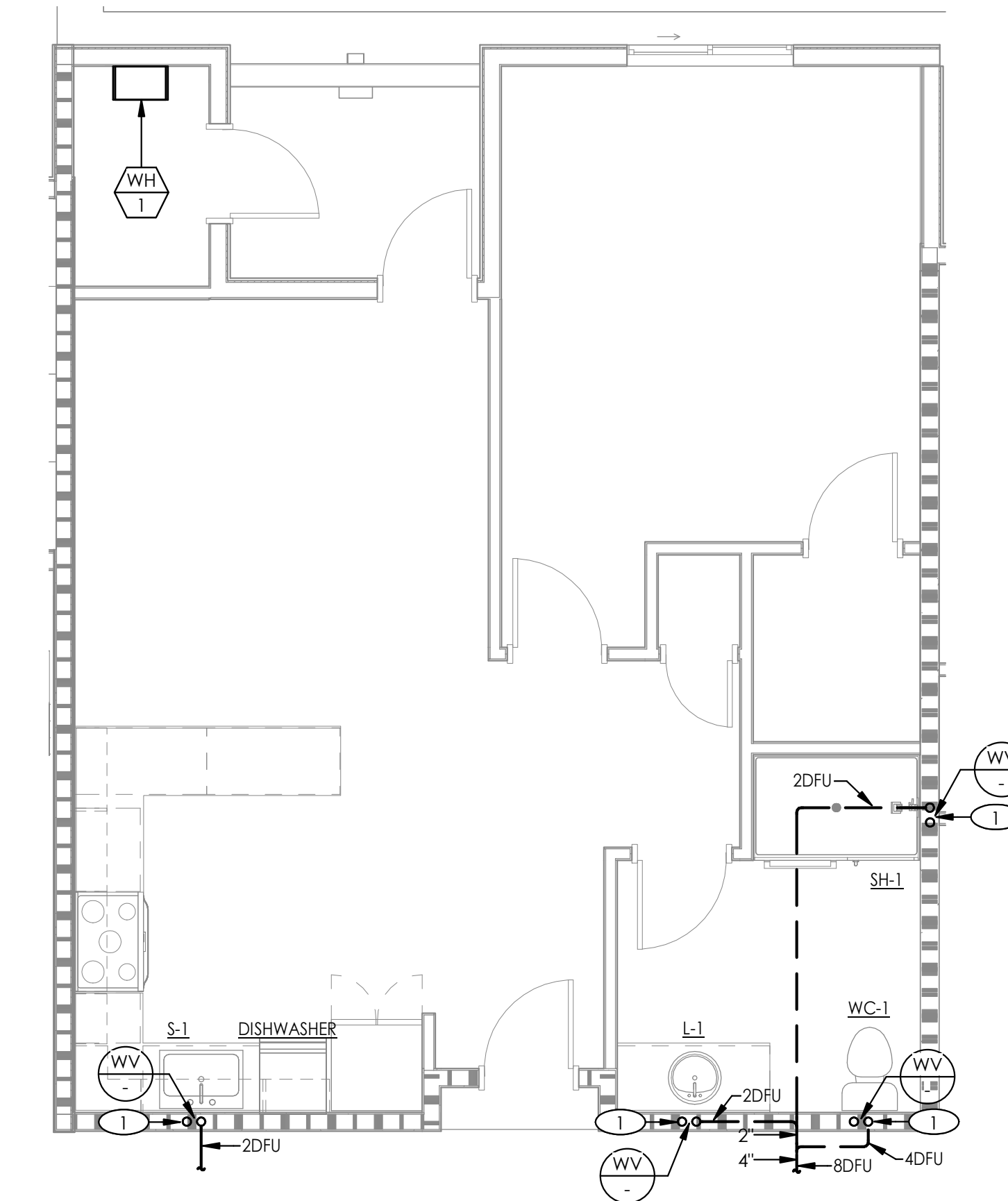
① WASTE AND VENT TO/FROM FIXTURE. SIZE PER FIXTURE SCHEDULE.



**2 ENLARGED WASTE AND VENT PLAN - 1B TYPE B**  
SCALE: 1/4" = 1'-0"



**3 ENLARGED WASTE AND VENT PLAN - 1C TYPE A**  
SCALE: 1/4" = 1'-0"



**1 ENLARGED WASTE AND VENT PLAN - 1A TYPE B**  
SCALE: 1/4" = 1'-0"

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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
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**SHEET TITLE:**  
ENLARGED WASTE AND VENT - UNITS

**PERMIT**

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**P4.10**

### NOTICE

- A. DISCHARGE T&P FROM WATER HEATER TO EXTERIOR WITH LOW TURNED DOWN ELBOW.

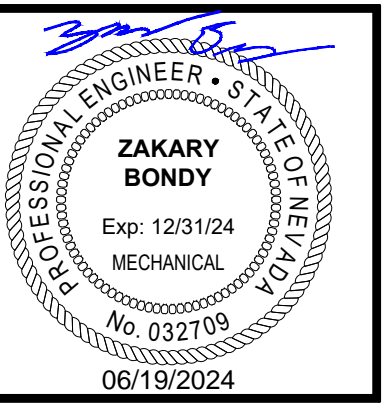
### SHEET NOTES

- ① WASTE AND VENT TO/FROM FIXTURE. SIZE PER FIXTURE SCHEDULE.



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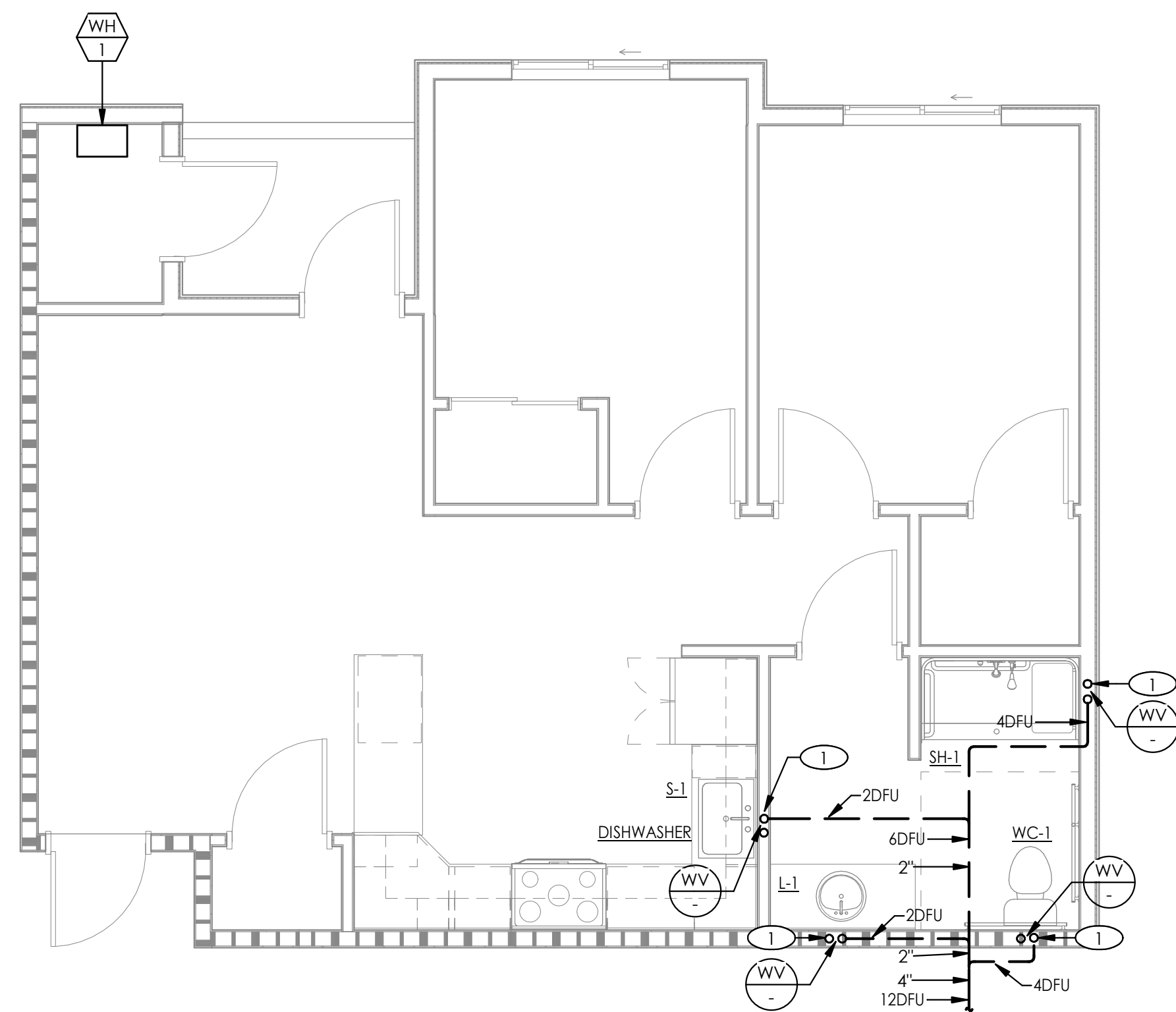
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**ENLARGED WASTE AND VENT - UNITS**

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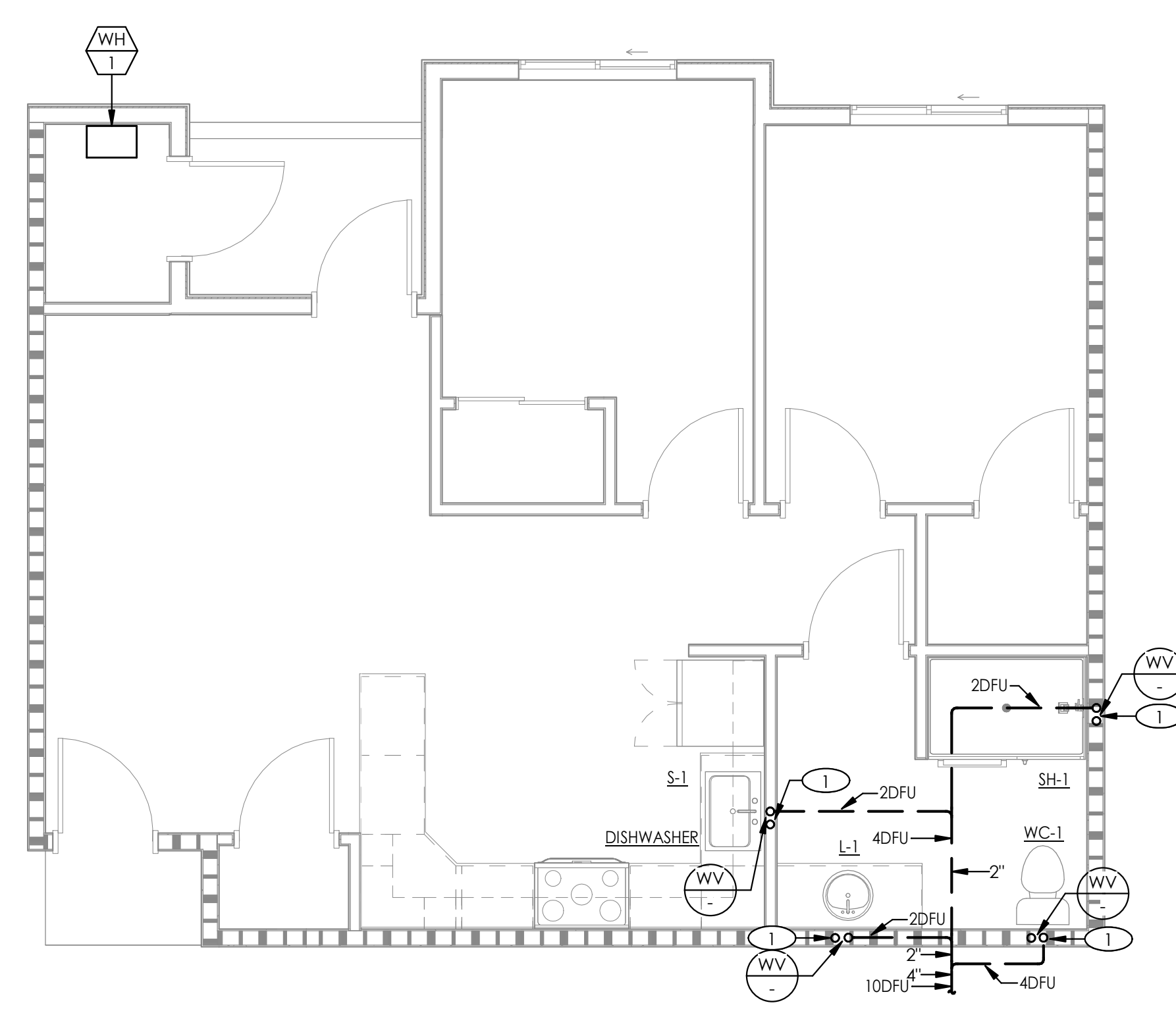
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**P4.11**



**2** ENLARGED WASTE AND VENT PLAN - TYPE 2E  
SCALE: 1/4" = 1'-0"

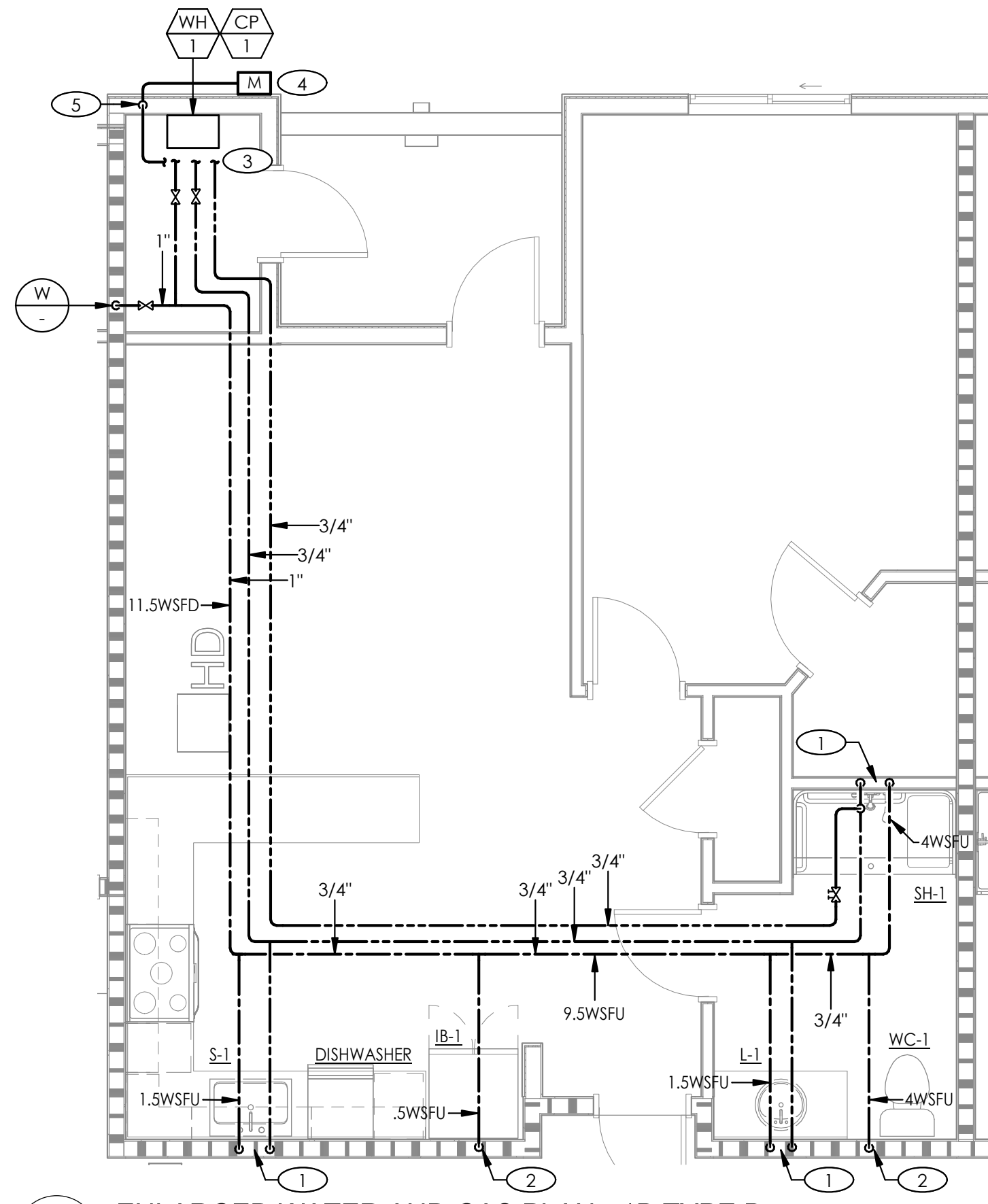


**1** ENLARGED WASTE AND VENT PLAN - 2D TYPE B  
SCALE: 1/4" = 1'-0"

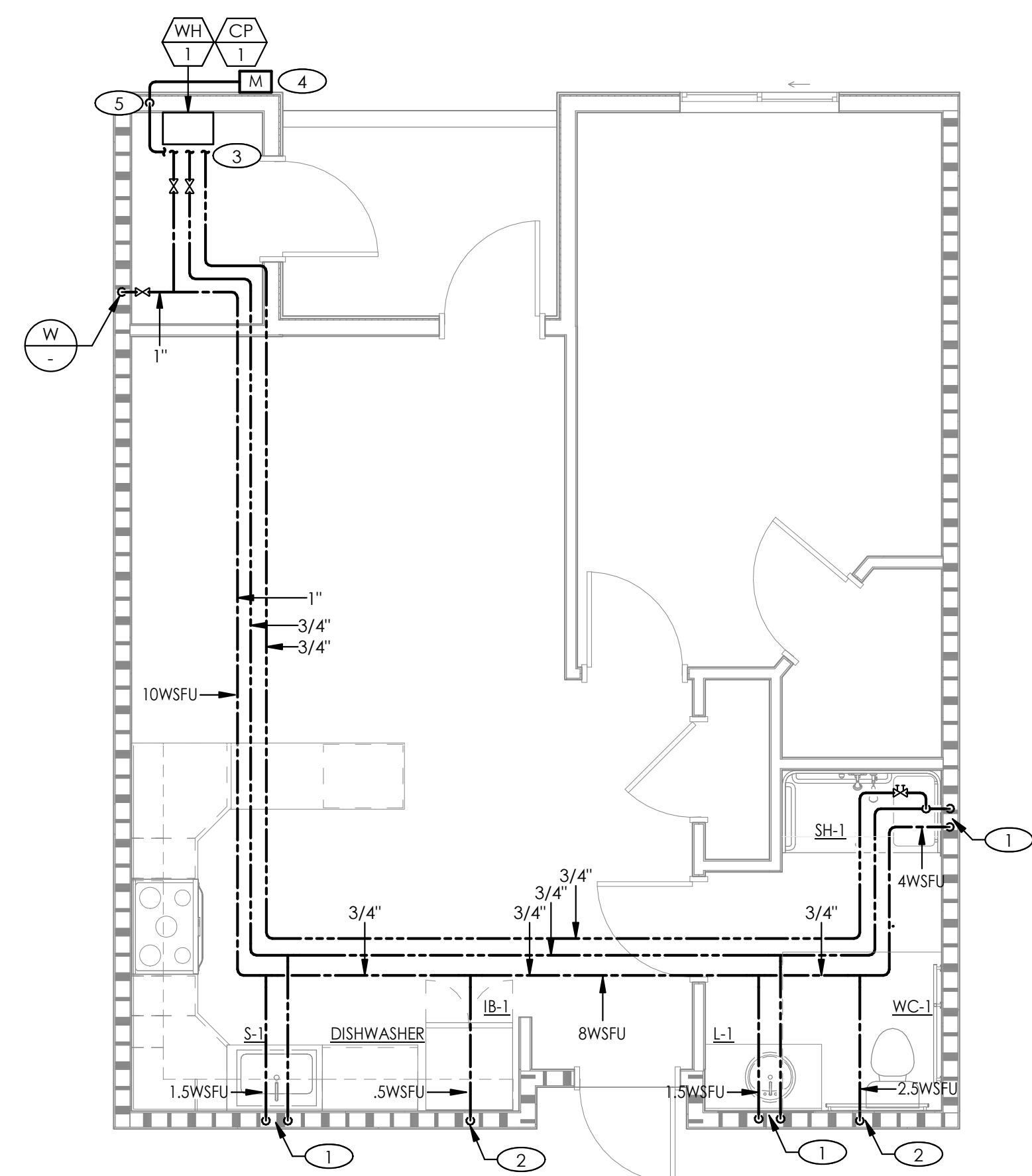
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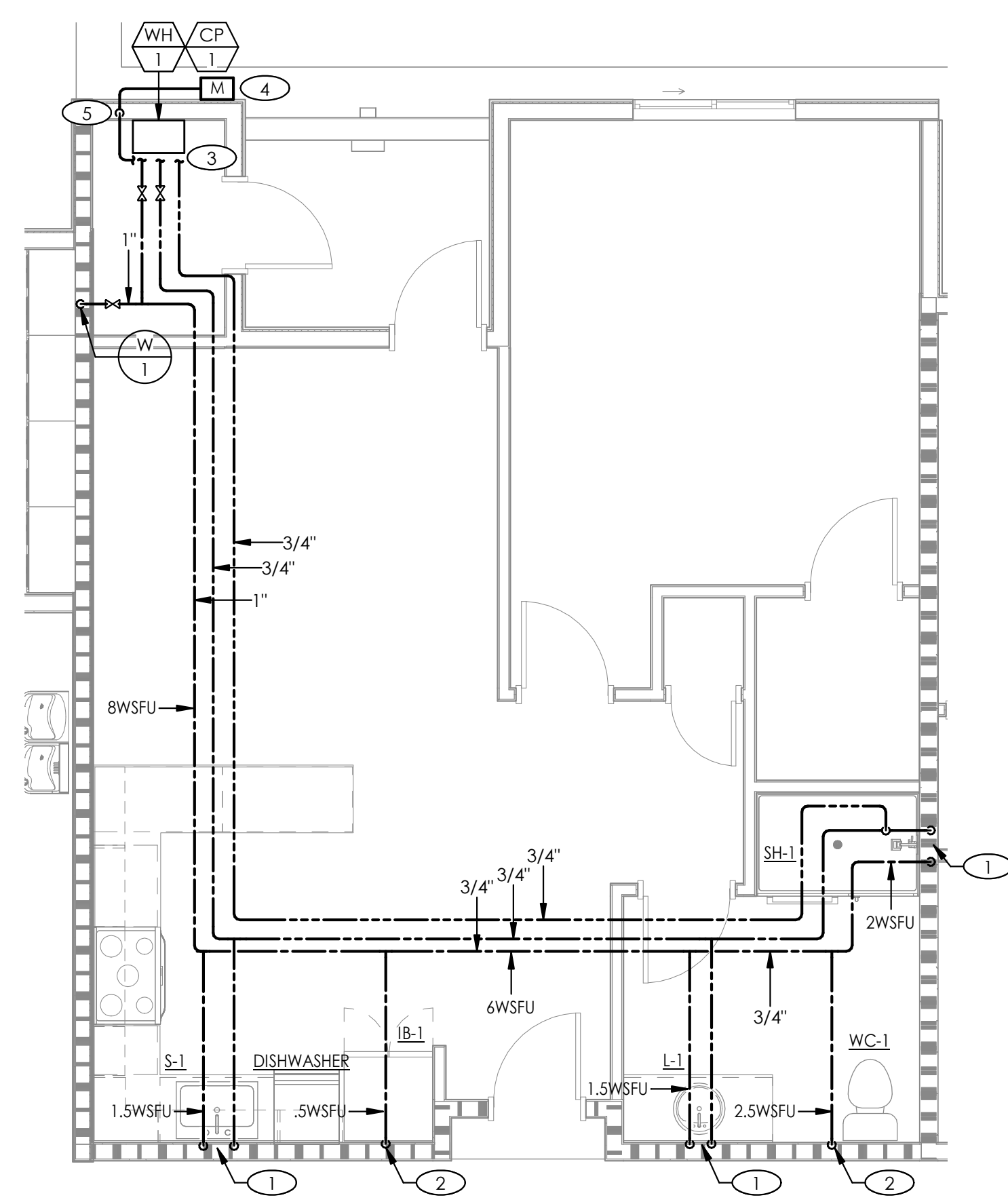
D  
C  
B  
A



2 ENLARGED WATER AND GAS PLAN - 1B TYPE B  
SCALE: 1/4" = 1'-0"



3 ENLARGED WATER AND GAS PLAN - 1C TYPE A  
SCALE: 1/4" = 1'-0"



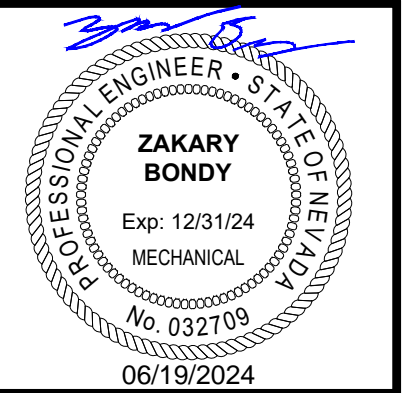
1 ENLARGED WATER AND GAS PLAN - 1A TYPE B  
SCALE: 1/4" = 1'-0"

**SHEET NOTES**

- 1 HOT AND COLD WATER DOWN TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- 2 COLD WATER DOWN TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- 3 COLD WATER, HOT WATER, HOT WATER RETURN AND GAS TO/FROM WATER HEATER.
- 4 GAS METER BY UTILITY.
- 5 1" GAS UP. ROUTE TO LEVEL OF THE UNIT.



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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
**ENLARGED WATER AND GAS - UNITS**

PERMIT

No.	Description	Date
1	CLV COM.	6/21/24

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SHEET  
**P4.20**



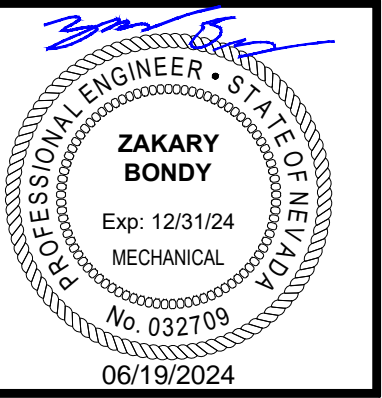
### SHEET NOTES

- ① HOT AND COLD WATER DOWN TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- ② COLD WATER DOWN TO FIXTURE. SIZE PER FIXTURE SCHEDULE.
- ③ COLD WATER, HOT WATER, HOT WATER RETURN AND GAS TO/FROM WATER HEATER.
- ④ GAS METER BY UTILITY.
- ⑤ 1" GAS UP. ROUTE TO LEVEL OF THE UNIT.



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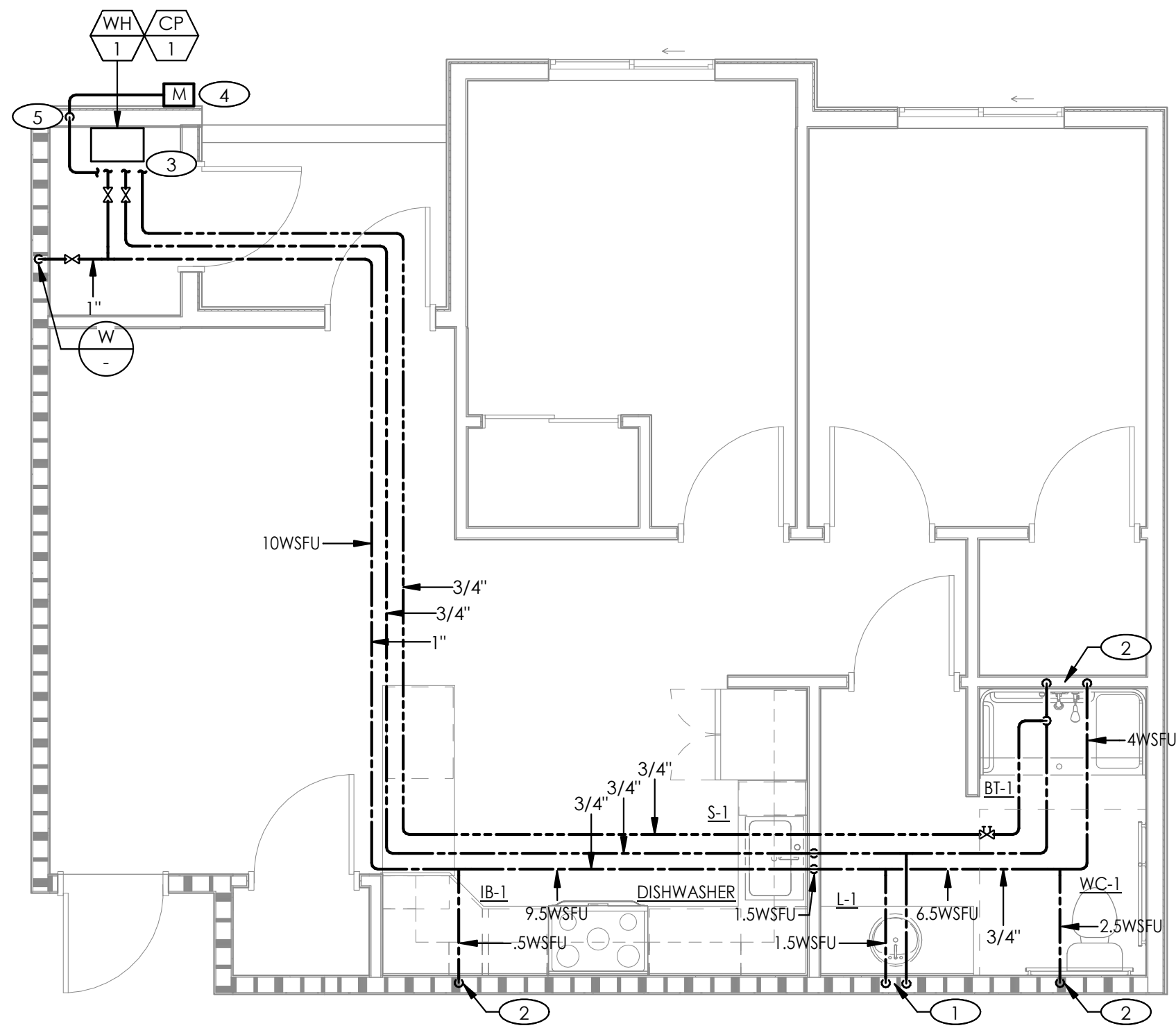
**SHEET TITLE:**  
ENLARGED WATER AND GAS - UNITS

**PERMIT**

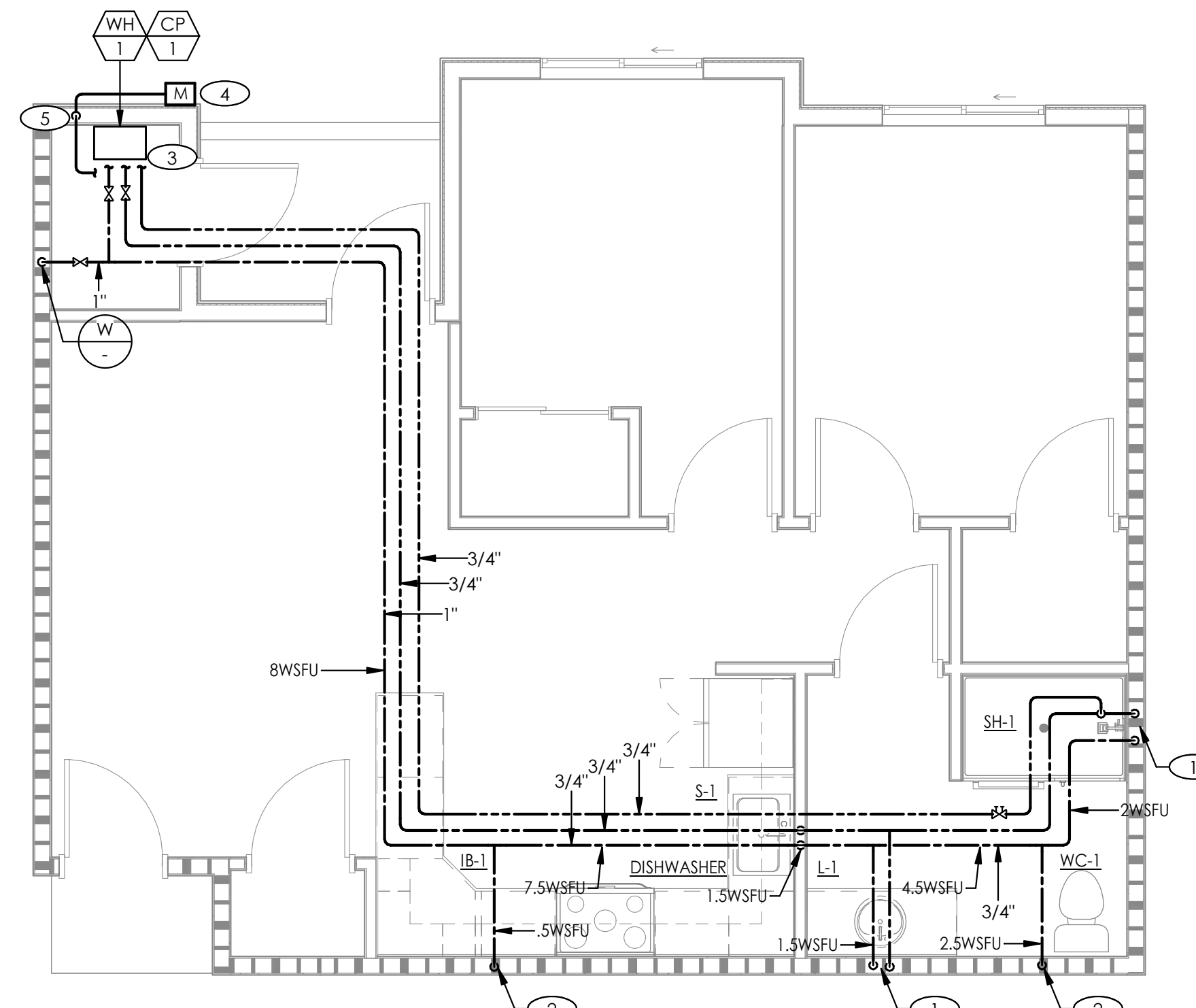
No.	Description	Date
1	CLV COM.	6/21/24

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SHEET  
**P4.21**



② ENLARGED WATER AND GAS PLAN - TYPE 2E  
SCALE: 1/4" = 1'-0"



① ENLARGED WATER AND GAS PLAN - 2D TYPE B  
SCALE: 1/4" = 1'-0"

REVISED ENTIRE SHEET

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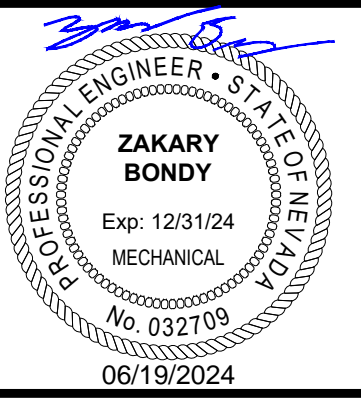
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**SHEET TITLE:**  
WASTE AND VENT STACK DIAGRAMS

**PERMIT**

**REVISIONS**

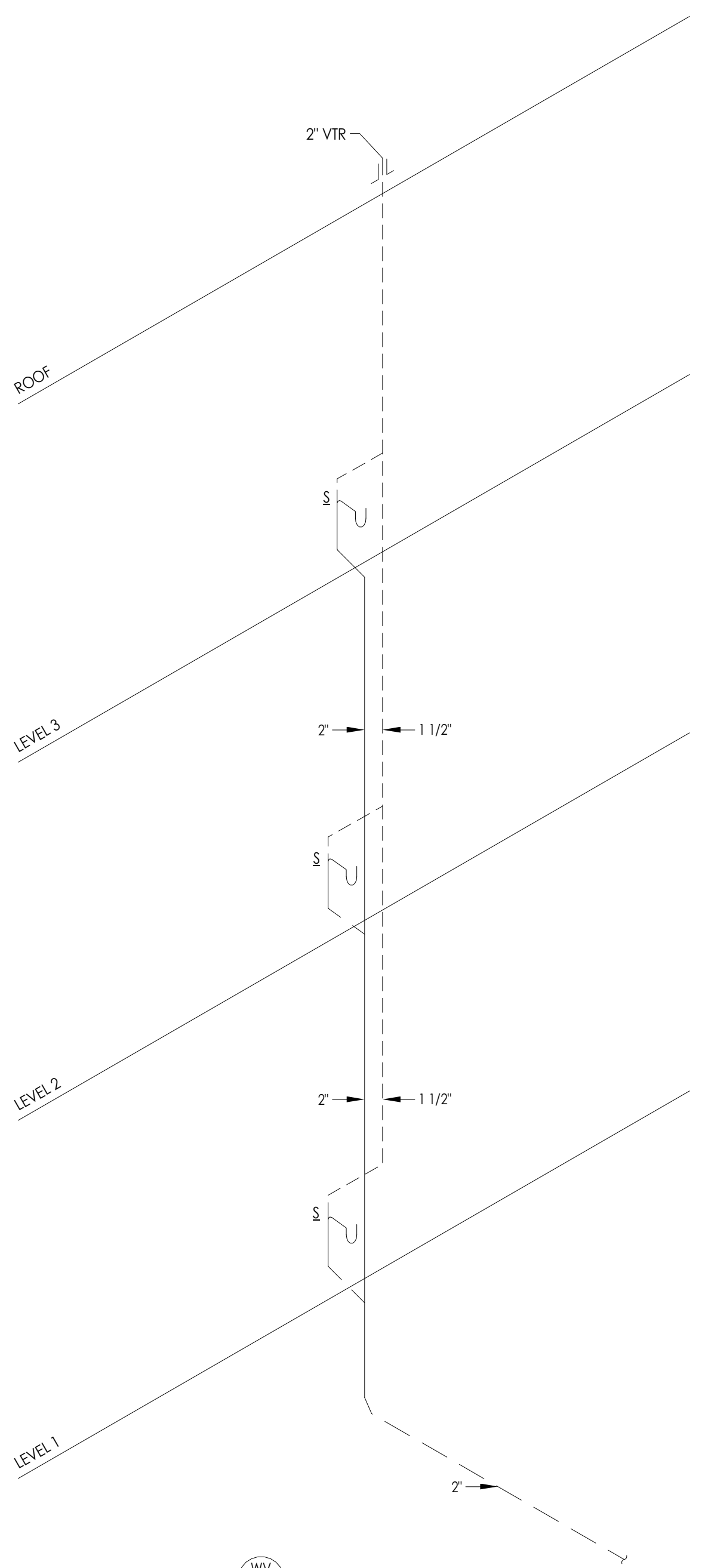
No.	Description	Date

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JOB NO: 2023-014  
SCALE: AS INDICATED  
PROJECT SCALE: 1/8"=1'-0"

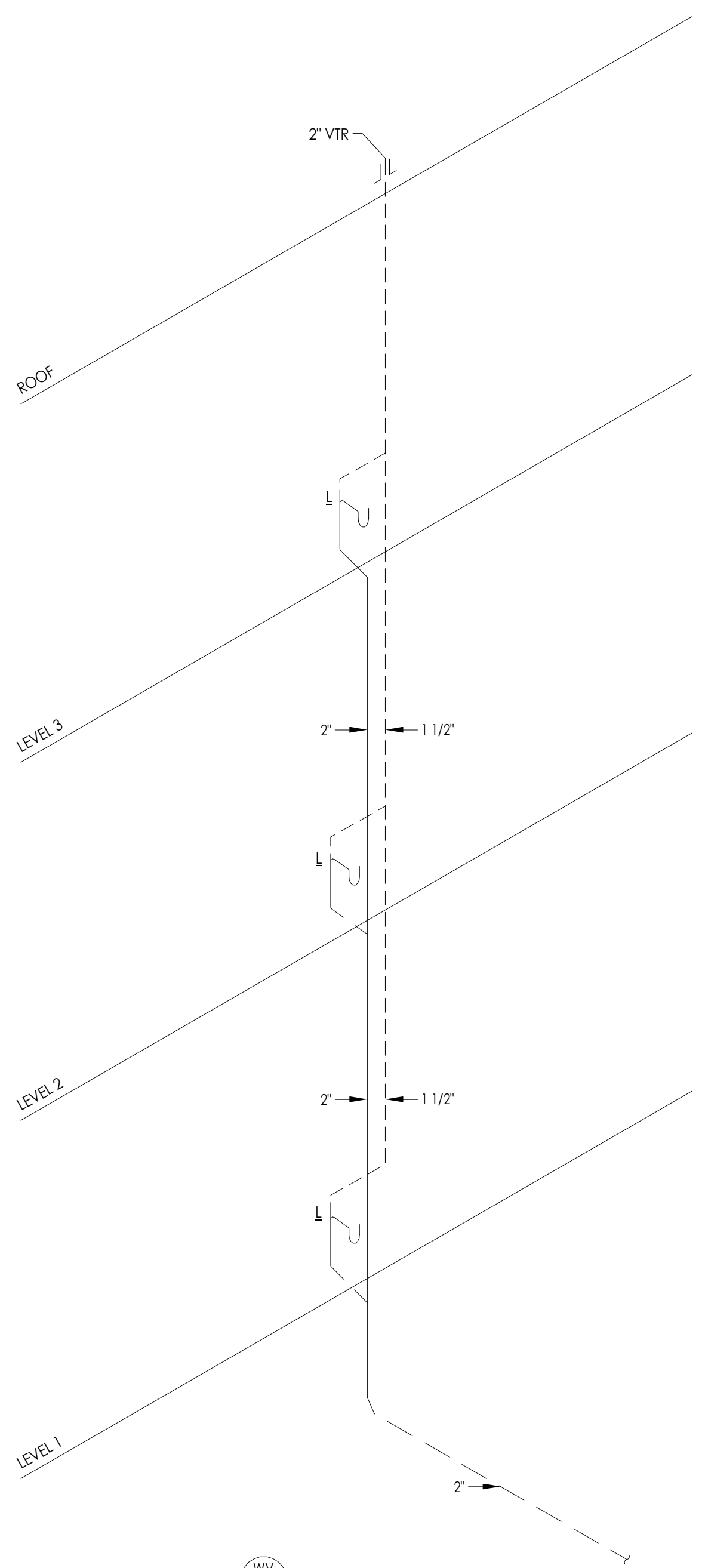
**SHEET**

**P5.11**

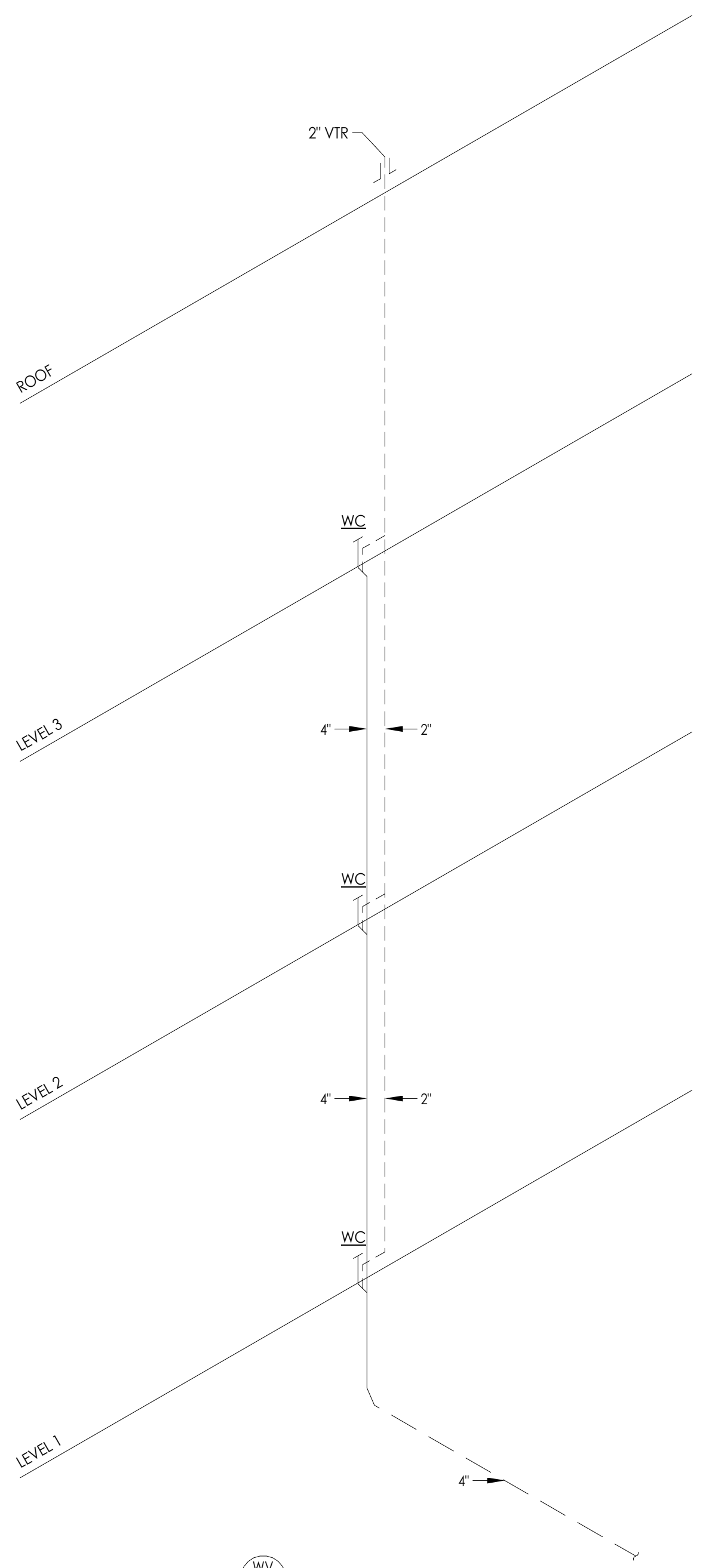
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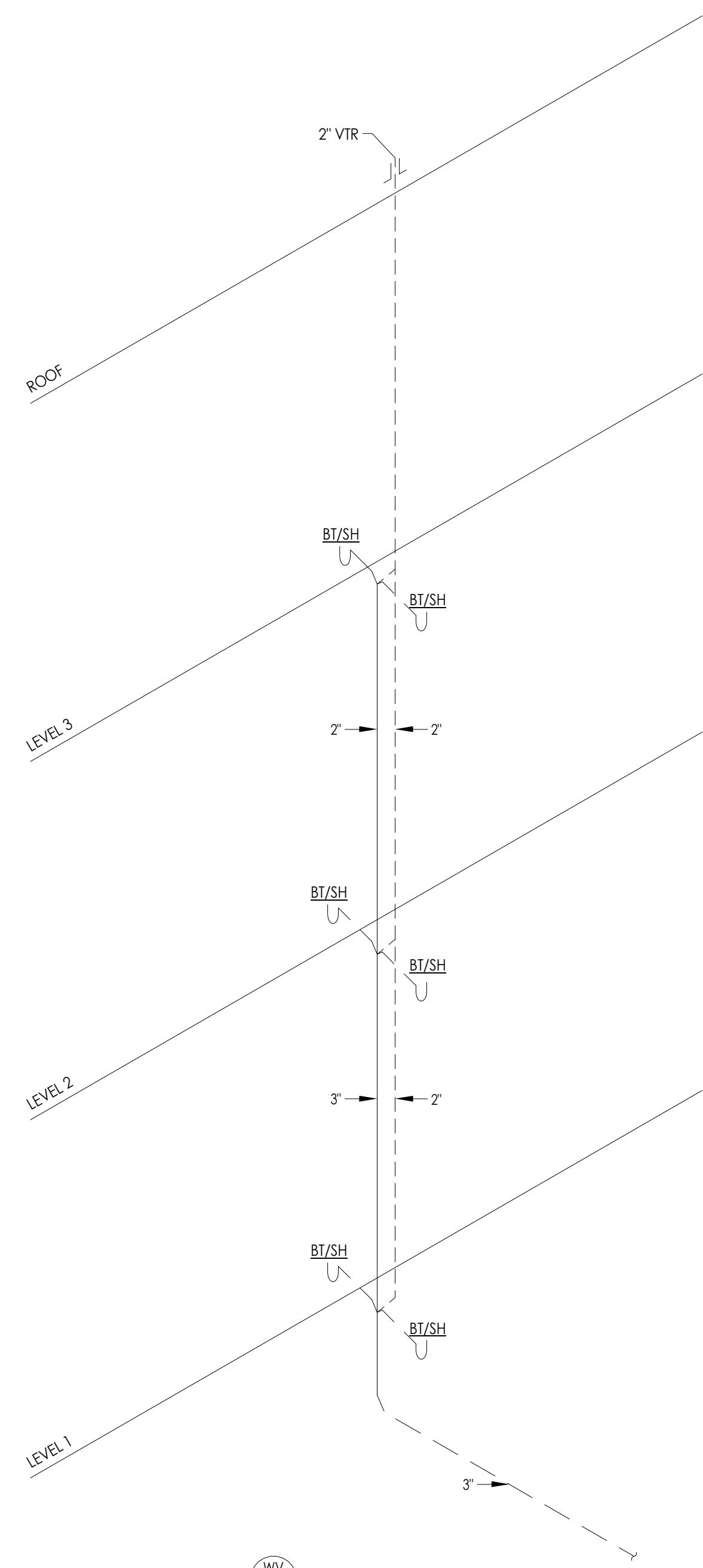
**A WASTE AND VENT STACK DIAGRAM**  
P5.11 NOT TO SCALE



**B WASTE AND VENT STACK DIAGRAM**  
P5.11 NOT TO SCALE



**C WASTE AND VENT STACK DIAGRAM**  
P5.11 NOT TO SCALE



**D WASTE AND VENT STACK DIAGRAM**  
P5.11 NOT TO SCALE

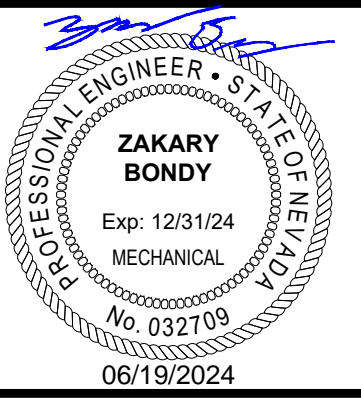
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**SHEET TITLE:**  
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**PERMIT**

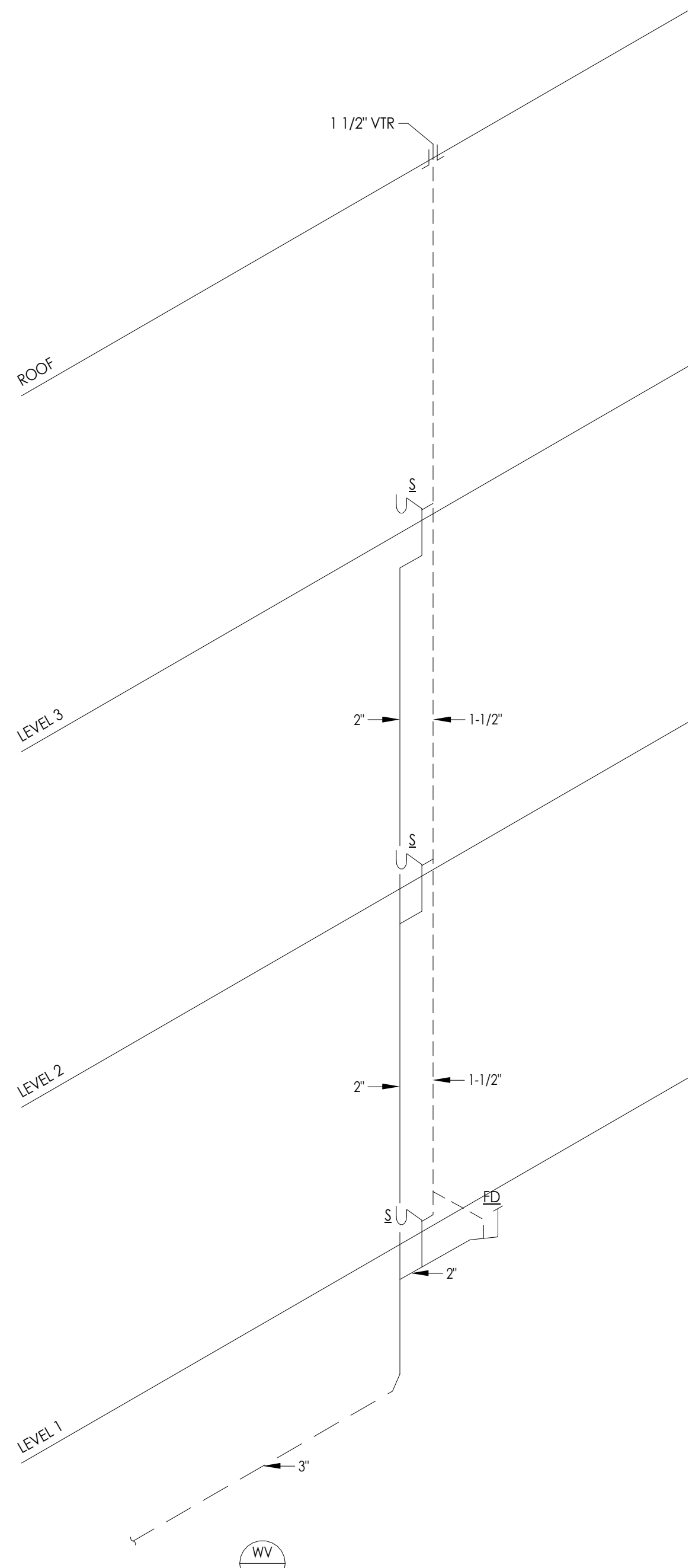
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PROJECT SCALE: 1/8"=1'-0"

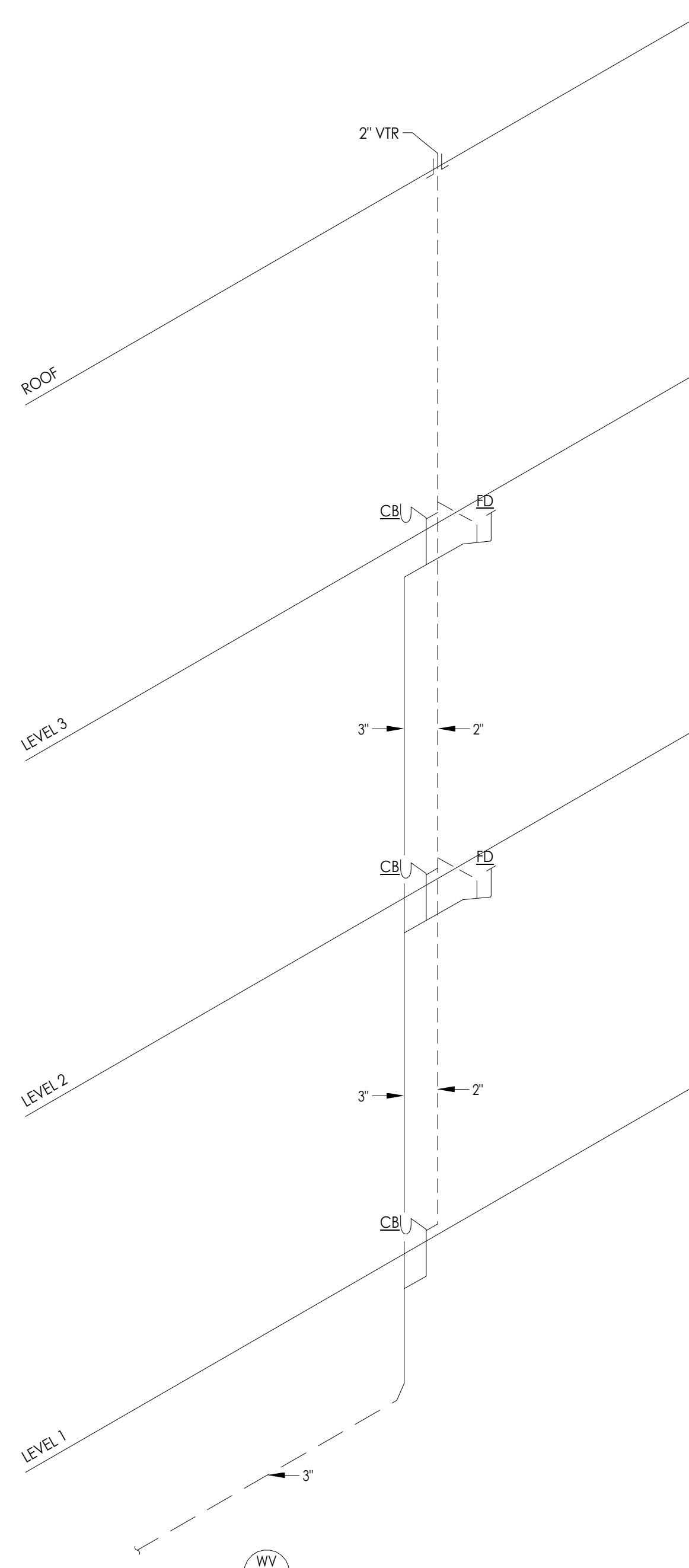
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**P5.12**



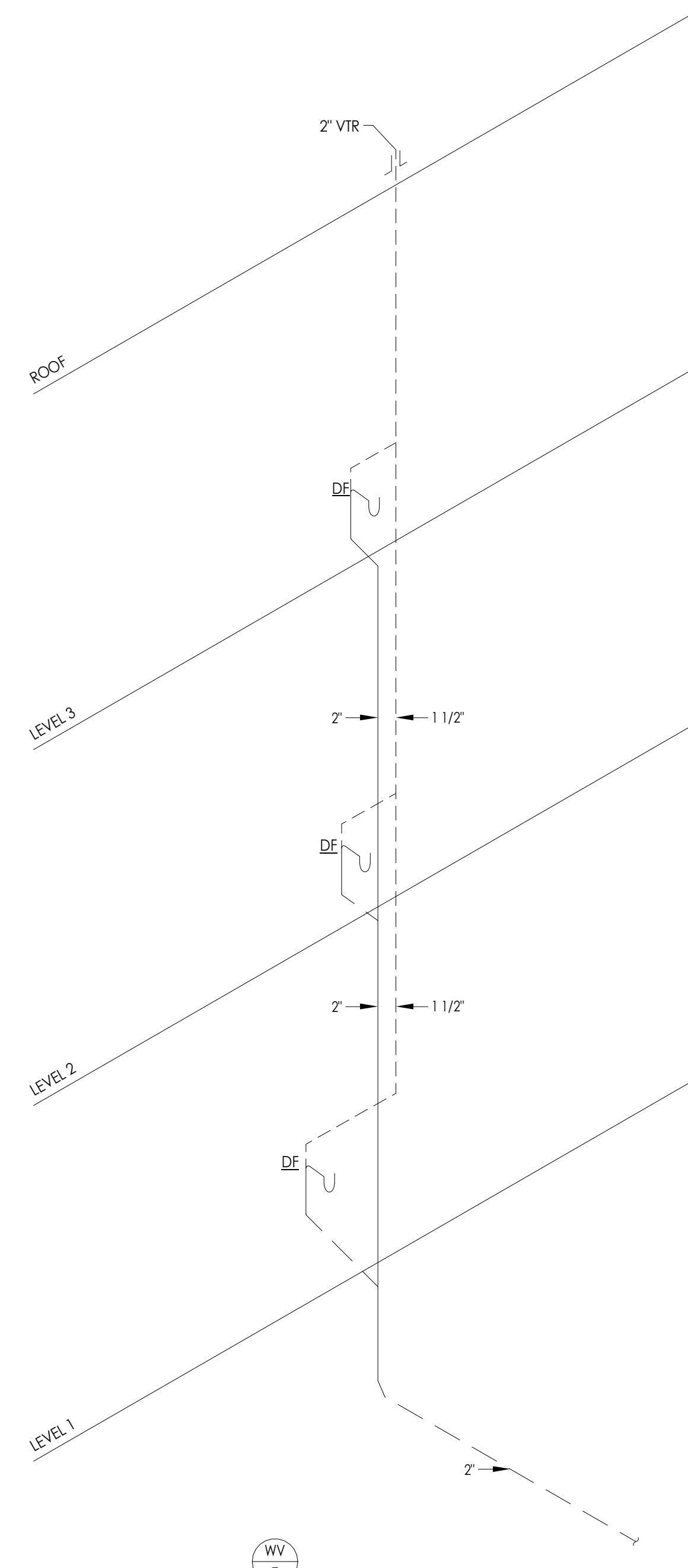
**A WASTE AND VENT STACK DIAGRAM**

P5.12 NOT TO SCALE



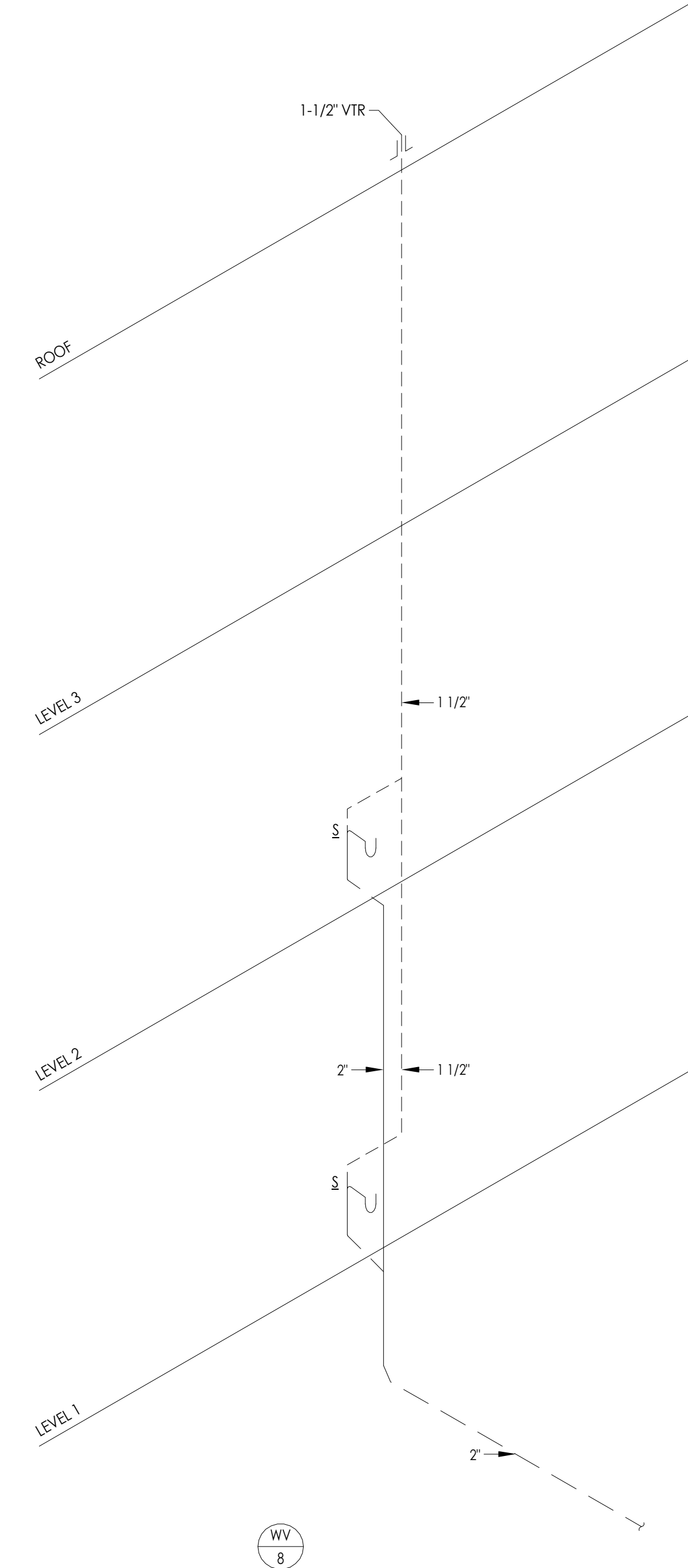
**B WASTE AND VENT STACK DIAGRAM**

P5.12 NOT TO SCALE



**C WASTE AND VENT STACK DIAGRAM**

P5.12 NOT TO SCALE



**D WASTE AND VENT STACK DIAGRAM**

P5.12 NOT TO SCALE

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**SHEET TITLE:**  
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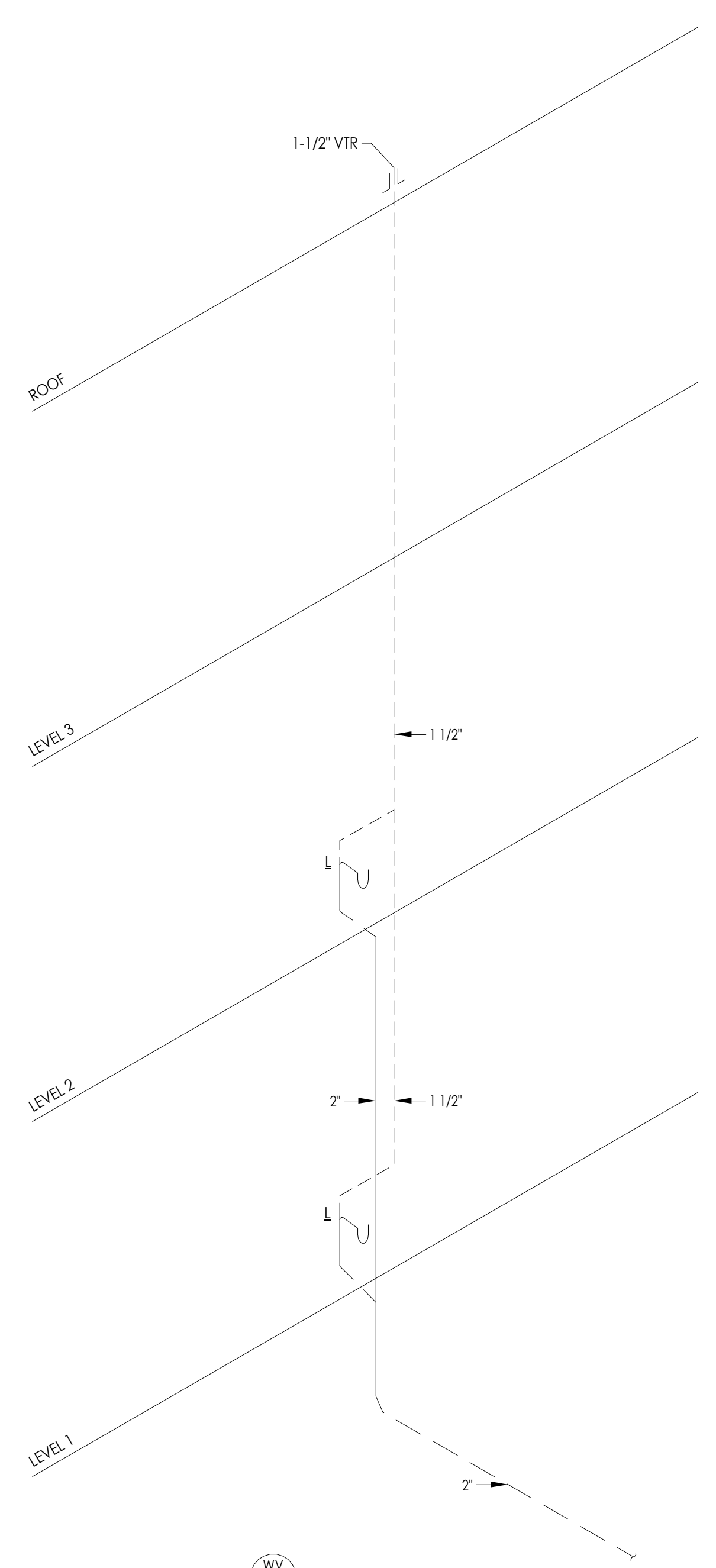
**PERMIT**

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No.	Description	Date

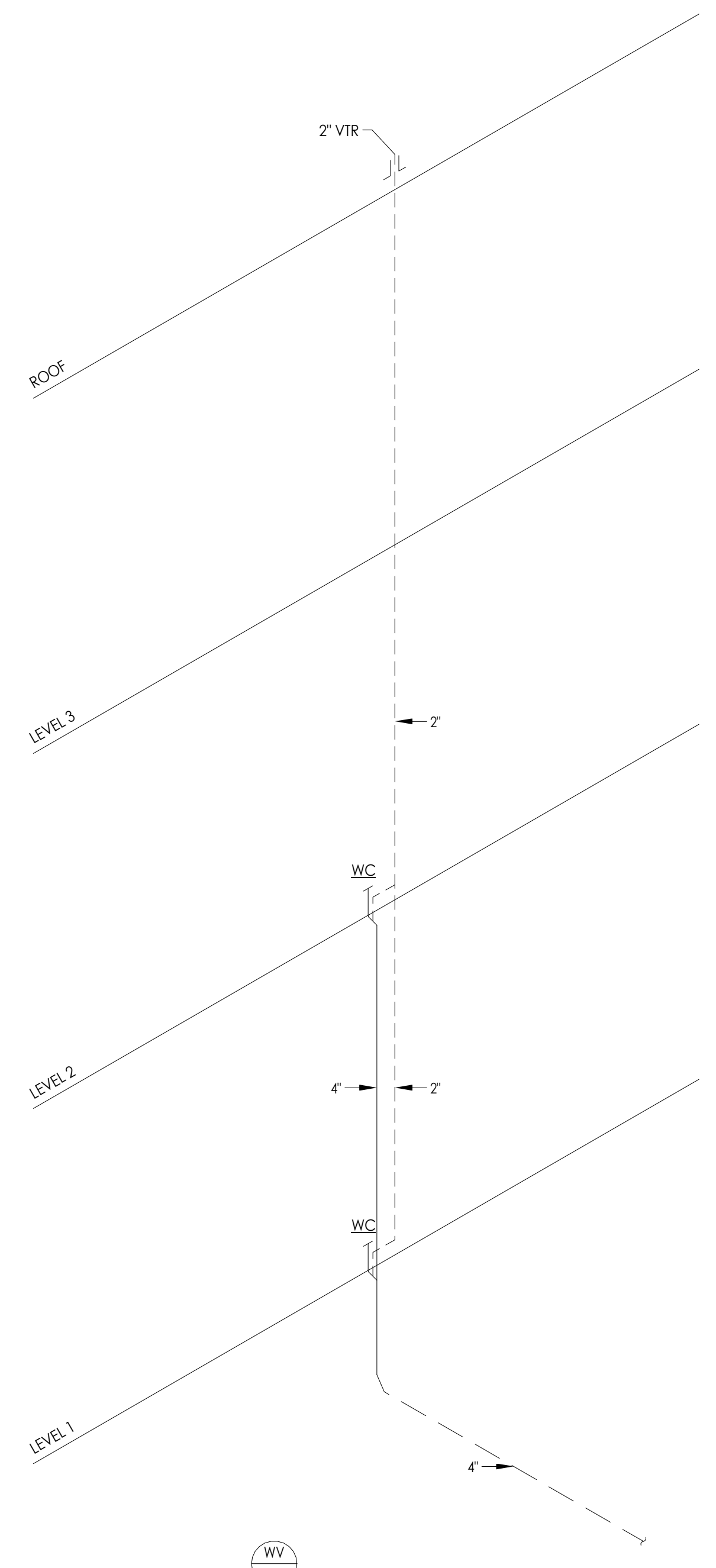
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 P5.13

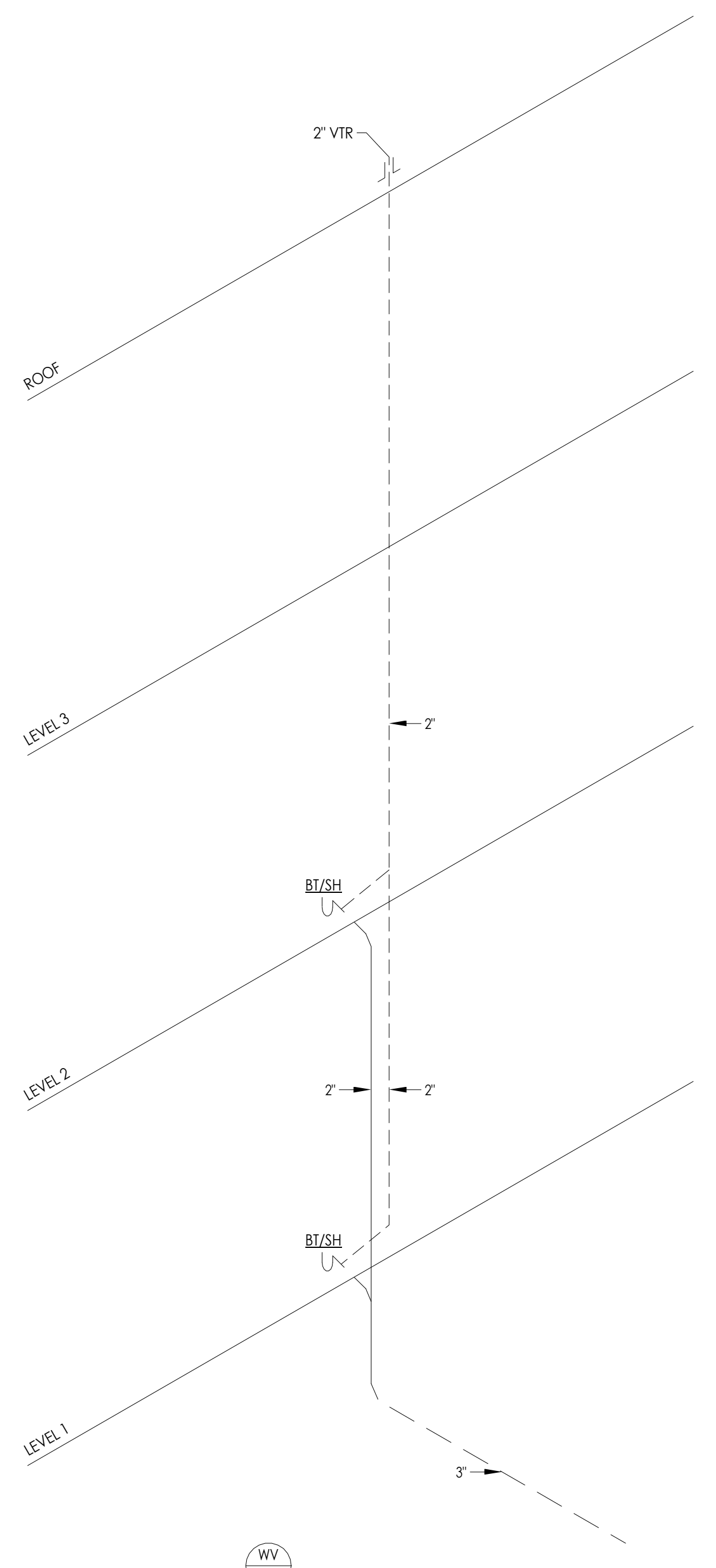
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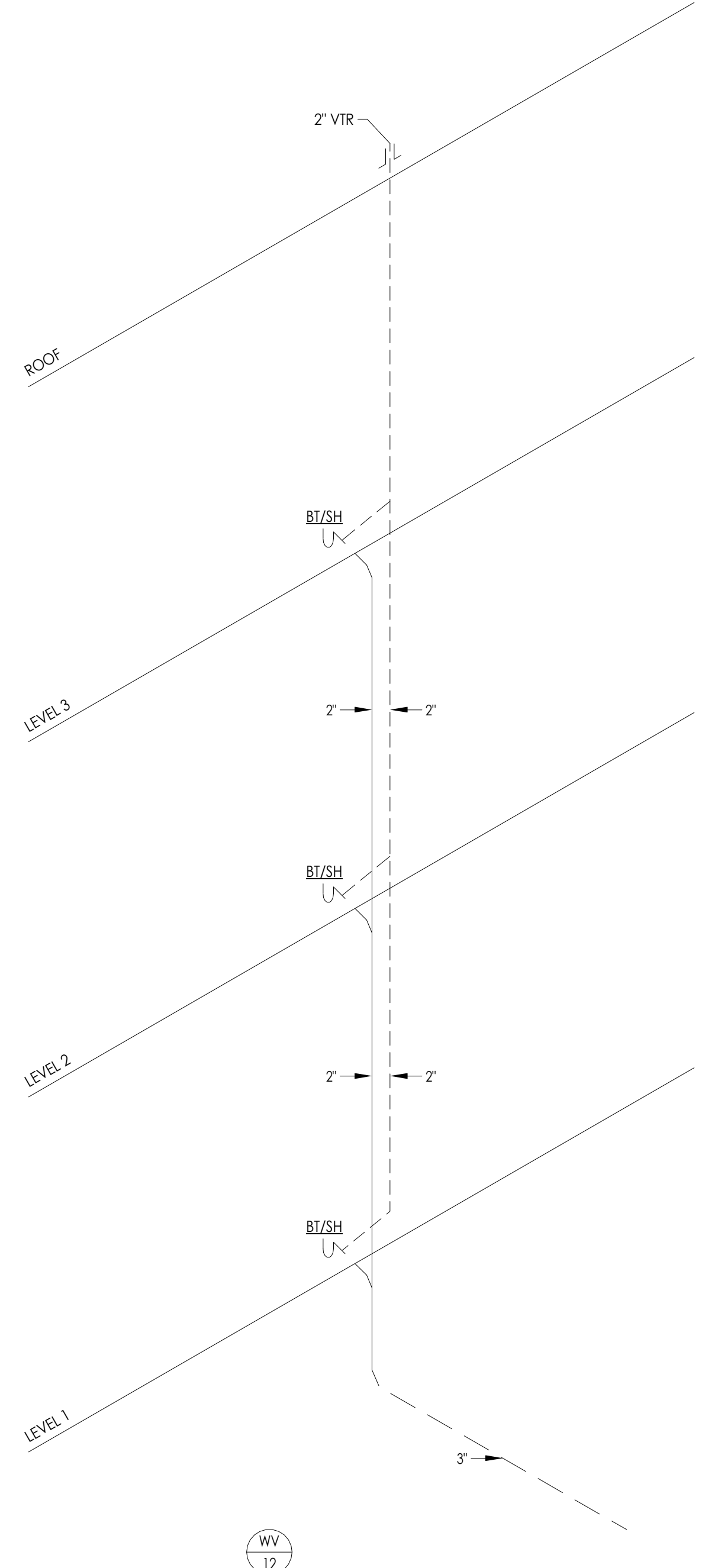
**A WASTE AND VENT STACK DIAGRAM**  
 P5.13 NOT TO SCALE



**B WASTE AND VENT STACK DIAGRAM**  
 P5.13 NOT TO SCALE



**C WASTE AND VENT STACK DIAGRAM**  
 P5.13 NOT TO SCALE

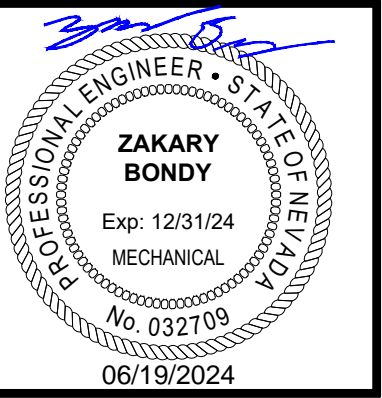


**D WASTE AND VENT STACK DIAGRAM**  
 P5.13 NOT TO SCALE

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**SHEET TITLE:**  
 WASTE AND VENT STACK DIAGRAMS

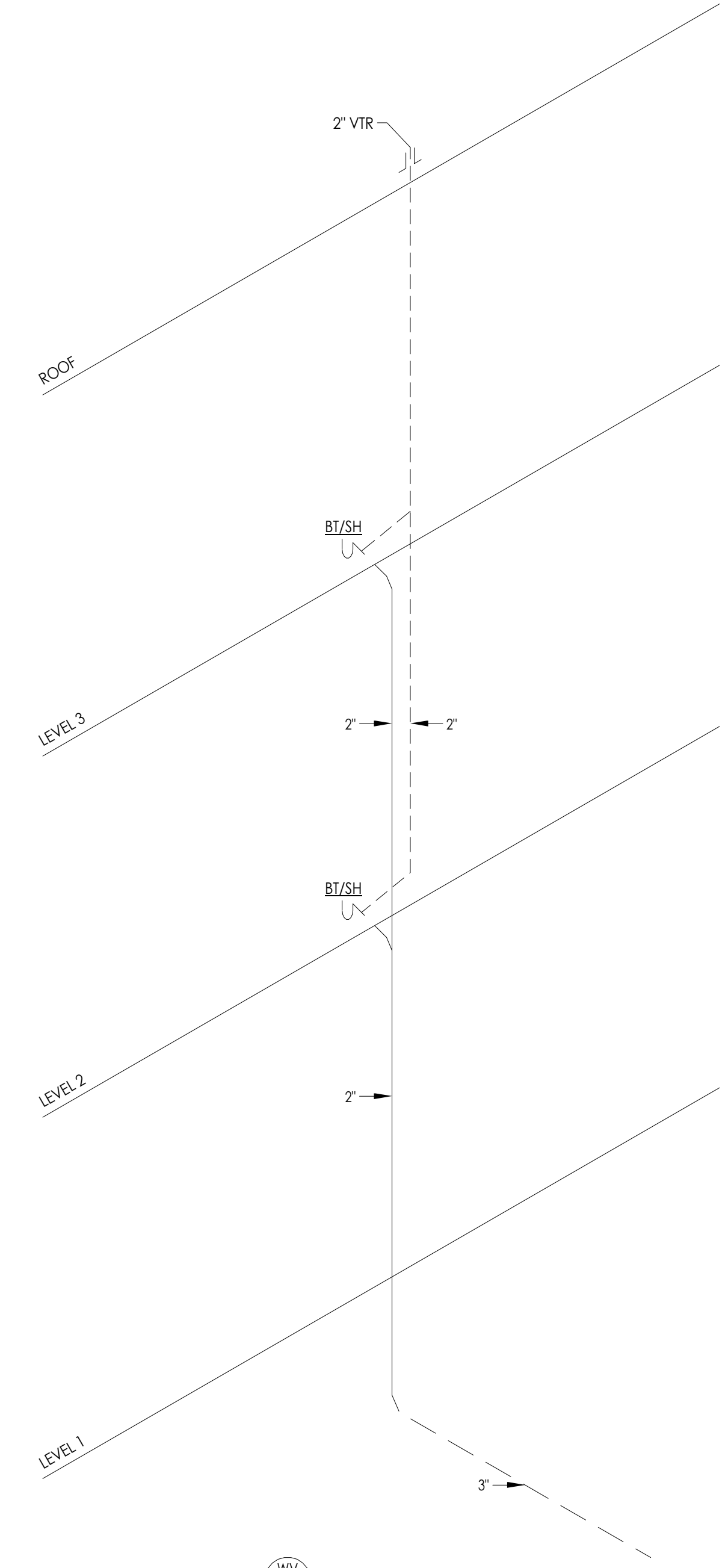
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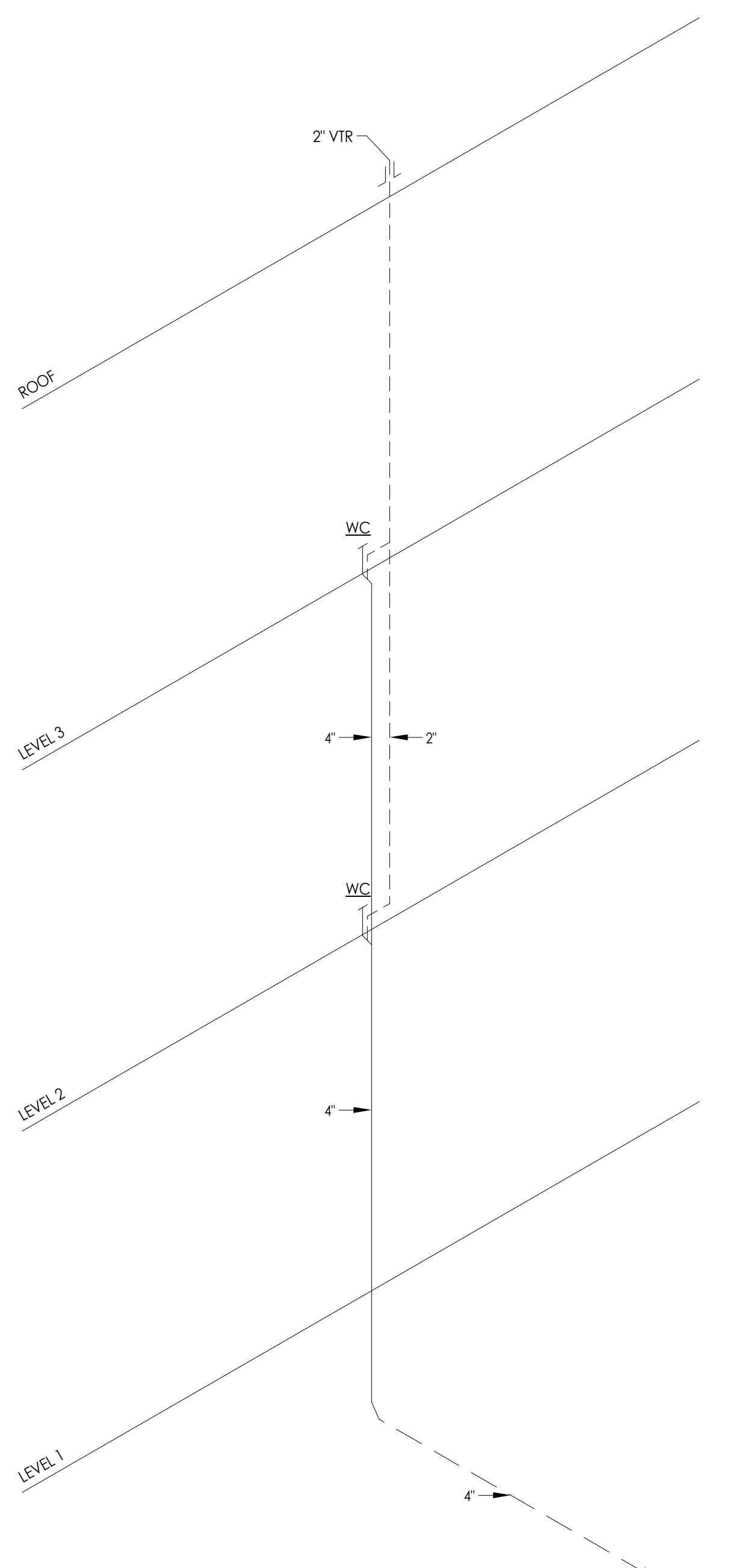
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 P5.14

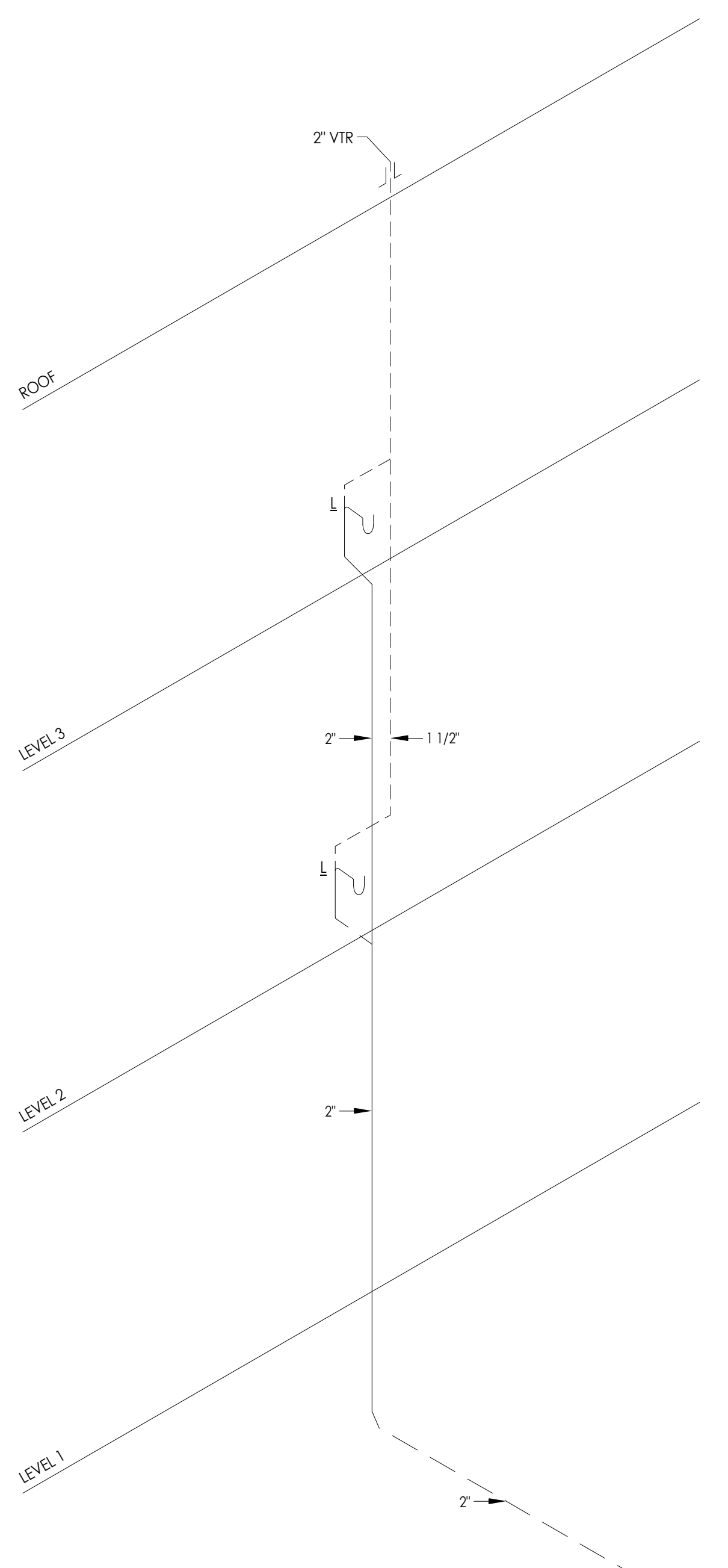
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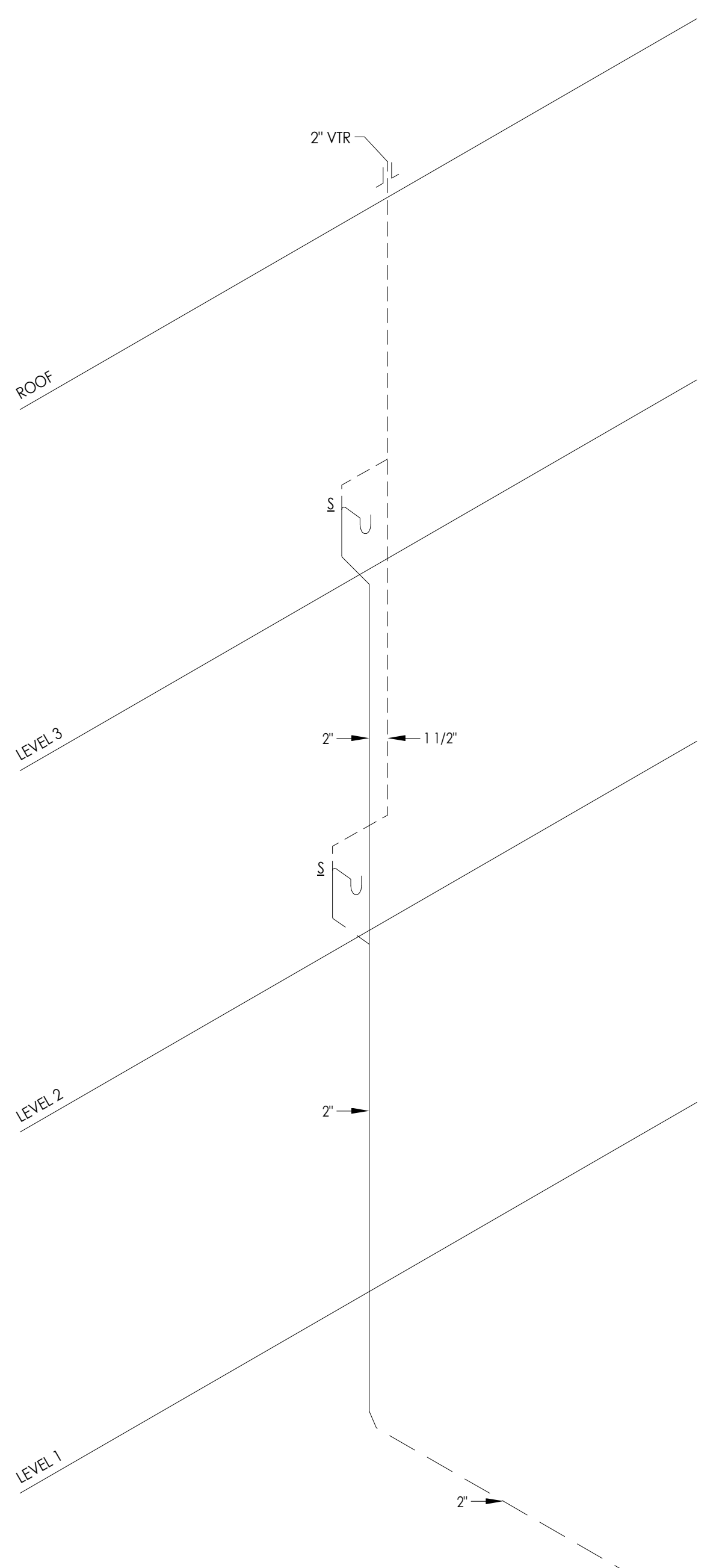
**D WASTE AND VENT STACK DIAGRAM**  
 P5.14 NOT TO SCALE



**C WASTE AND VENT STACK DIAGRAM**  
 P5.14 NOT TO SCALE



**B WASTE AND VENT STACK DIAGRAM**  
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**A WASTE AND VENT STACK DIAGRAM**  
 P5.14 NOT TO SCALE

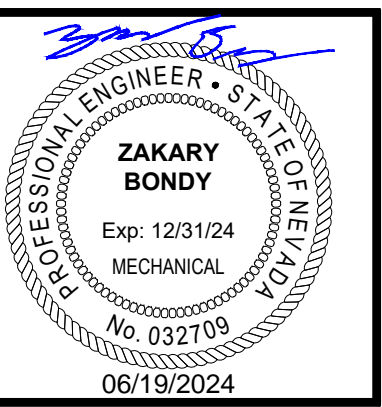
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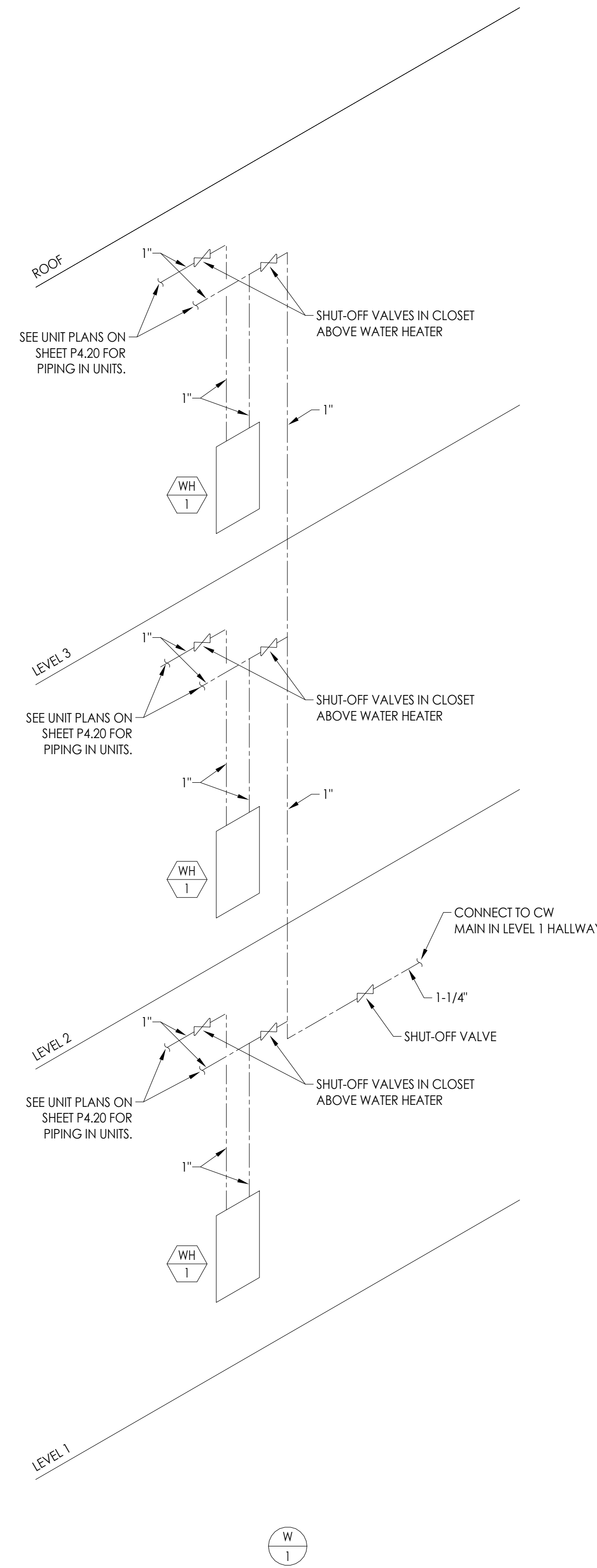
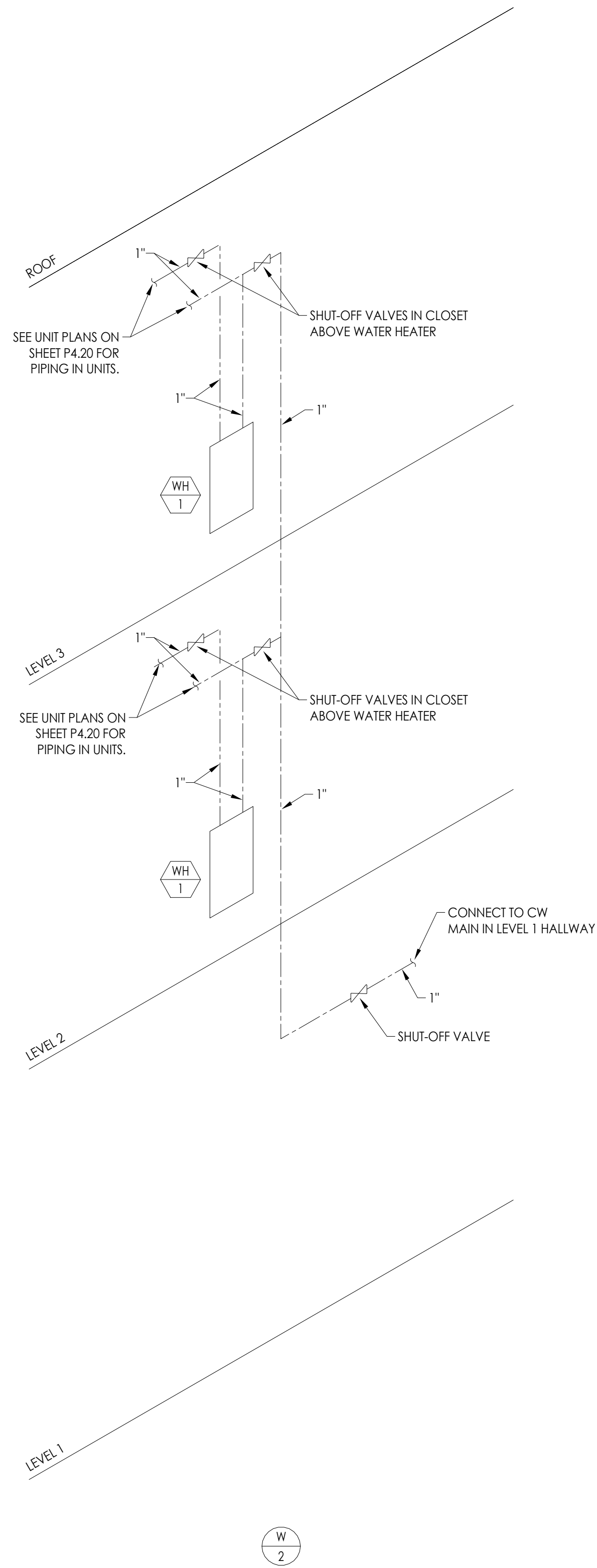
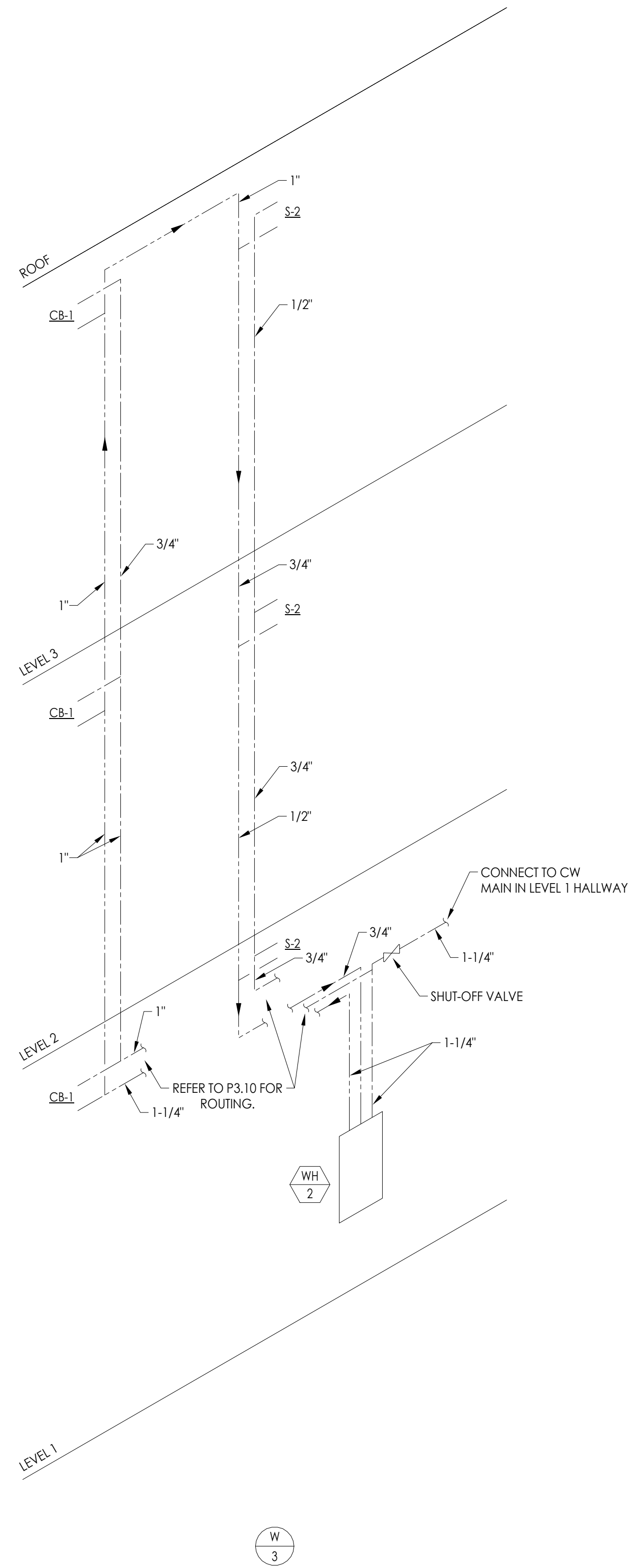
**SHEET TITLE:**  
 WATER RISER DIAGRAMS

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**SHEET**  
 P5.21



**C** TYPICAL DOMESTIC WATER RISER DIAGRAM

P510 NOT TO SCALE

**B** TYPICAL DOMESTIC WATER RISER DIAGRAM

P510 NOT TO SCALE

**A** TYPICAL DOMESTIC WATER RISER DIAGRAM

P510 NOT TO SCALE

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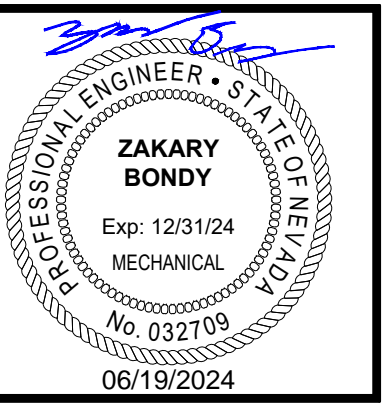
REMARKS

- 1. NATURAL GAS SIZED USING LONGEST LENGTH METHOD.
- 2. TOTAL DEVELOPED LENGTH AS SHOWN.
- 3. TOTAL LOAD = 199 CFH (EACH).
- 4. UTILITY TO PROVIDE 7"-1" WC.
- 5. SIZED USING 2018 UPC TABLE 1215.2(1) FOR LOW PRESSURE.

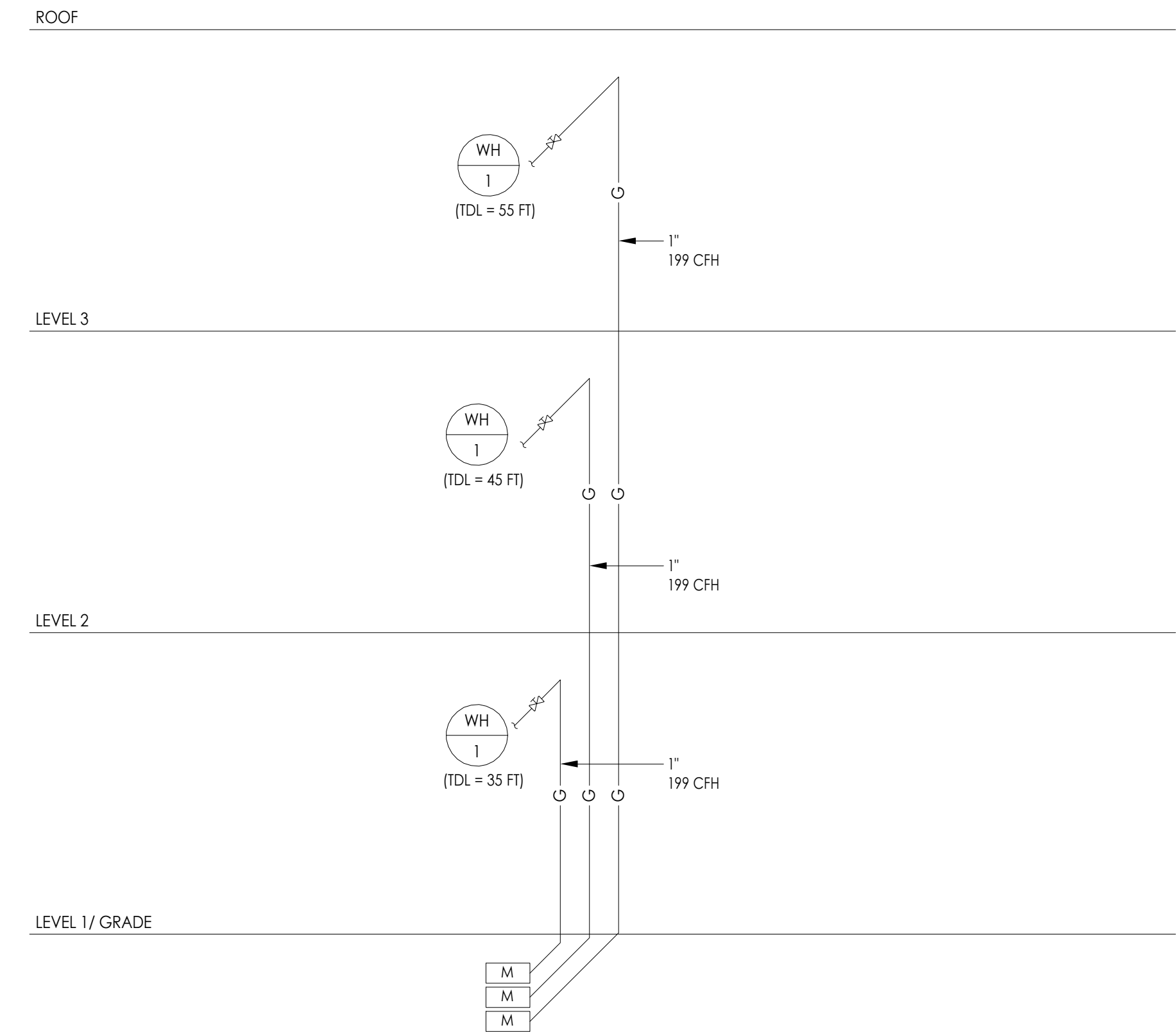


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A GAS RISER DIAGRAM

P5.31 NOT TO SCALE

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SHEET TITLE:  
**GAS DIAGRAMS**

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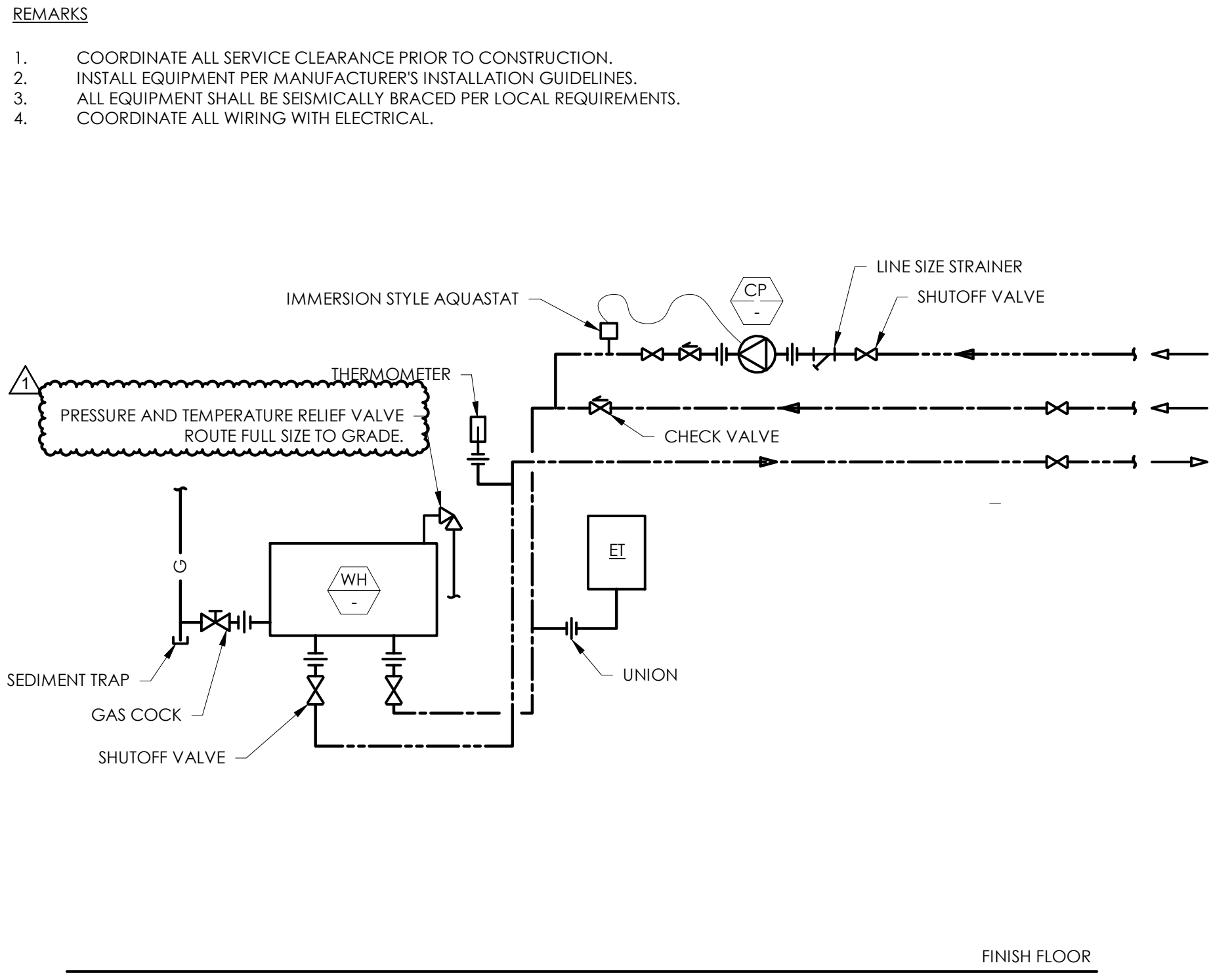
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JOB NO: 2023-014  
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SHEET

P5.31

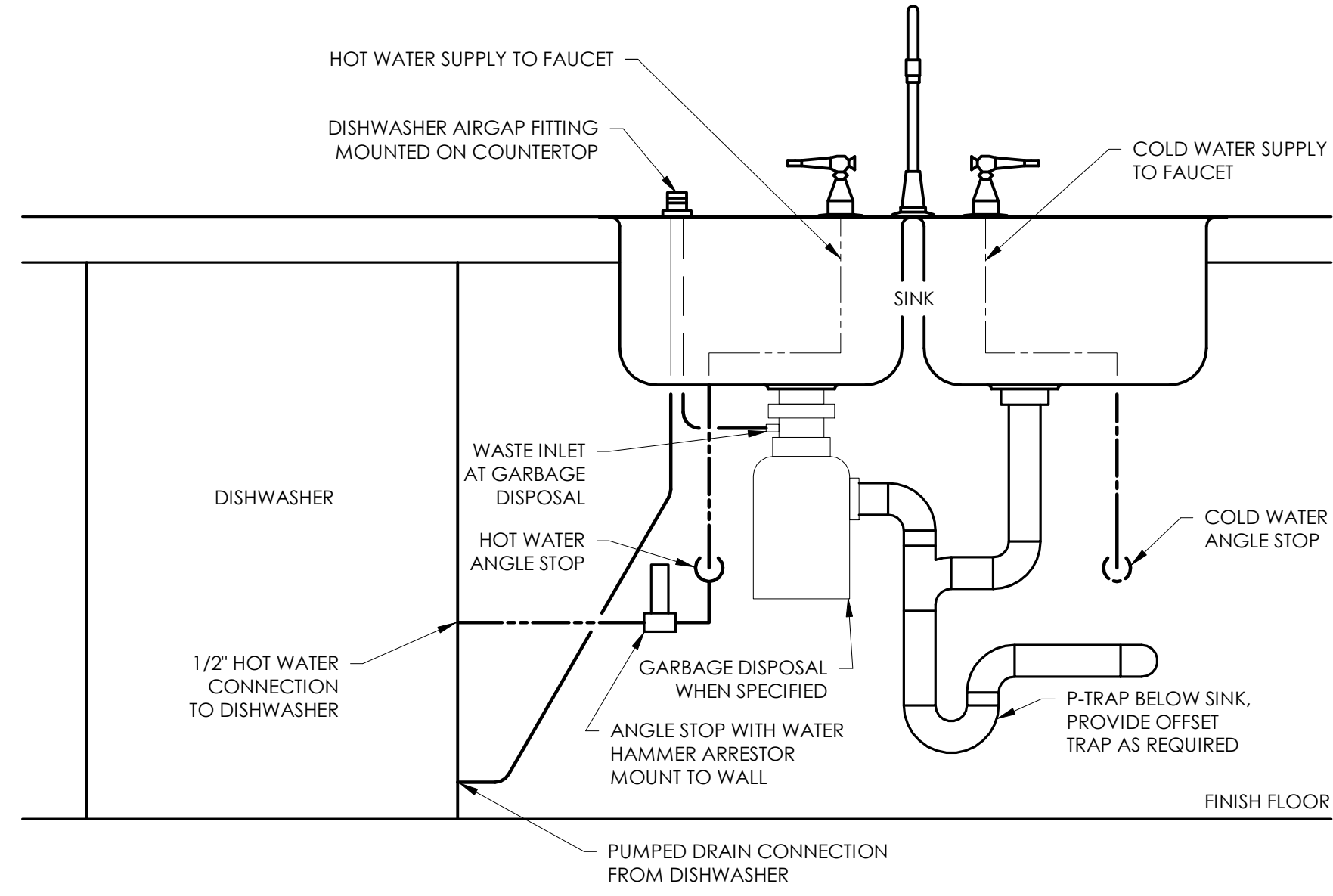
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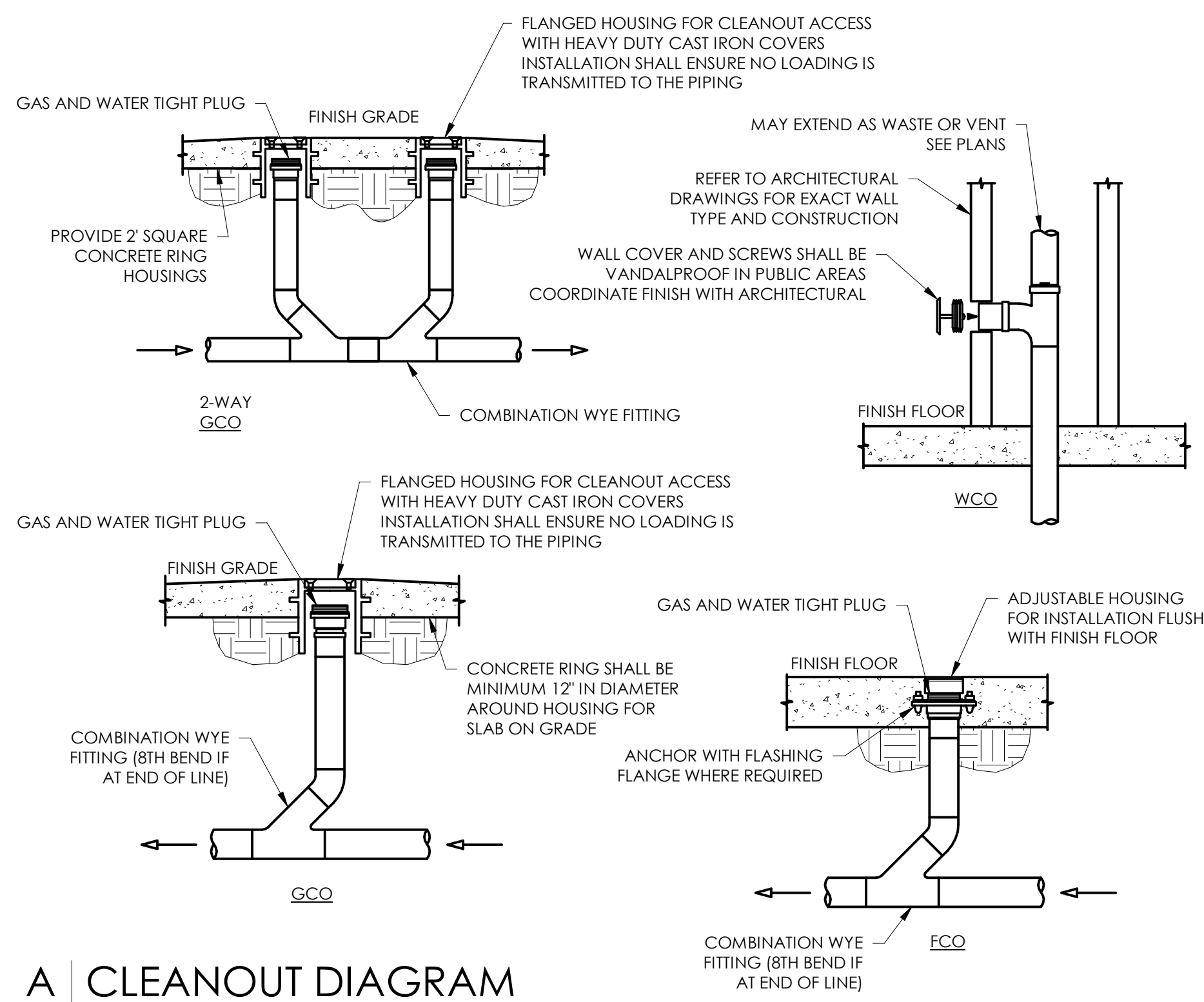
**E TANKLESS GAS WATER HEATER DIAGRAM**

P6.01 NOT TO SCALE



**C DISHWASHER PIPING DIAGRAM**

P6.01 NOT TO SCALE

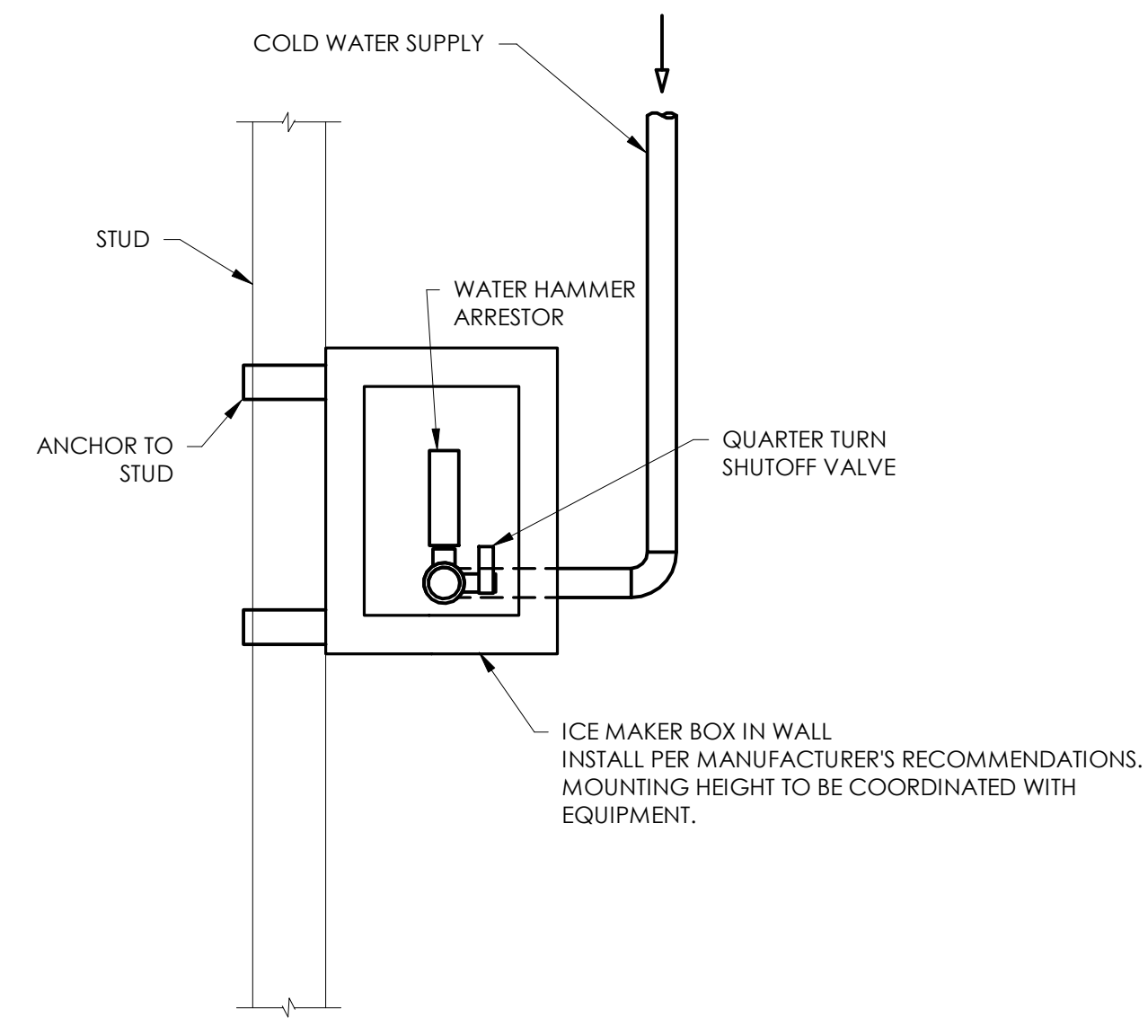


**A CLEANOUT DIAGRAM**

P6.01 NOT TO SCALE

**REMARKS**

- CONTRACTOR SHALL ENSURE ALL FIRE RATINGS ARE MAINTAINED WITH RATED BOX OR WALL CONSTRUCTION.

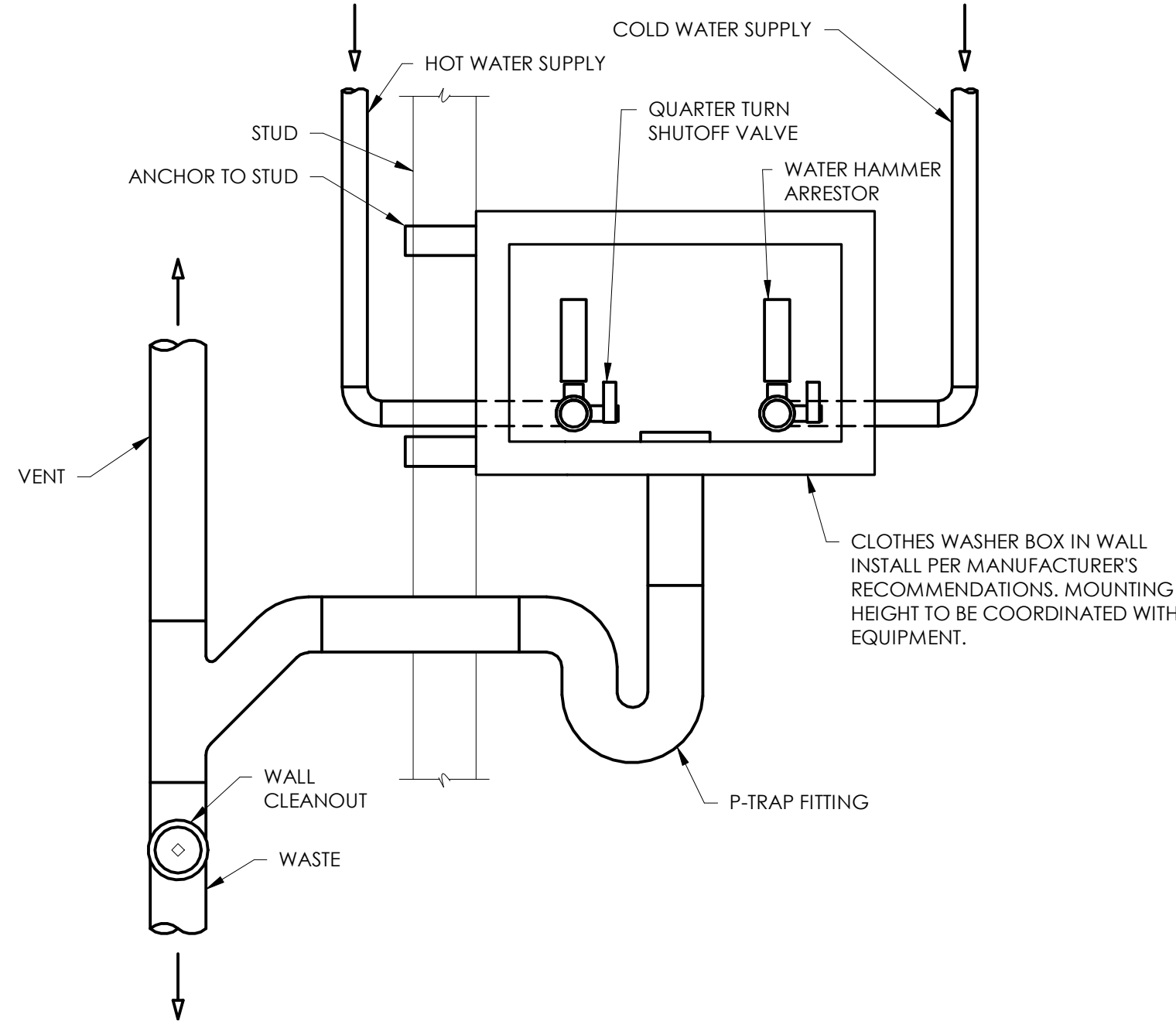


**D ICE MAKER BOX DIAGRAM**

P6.01 NOT TO SCALE

**REMARKS**

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**B CLOTHES WASHER BOX DIAGRAM**

P6.01 NOT TO SCALE

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**SHEET TITLE:**  
 DIAGRAMS

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 P6.01

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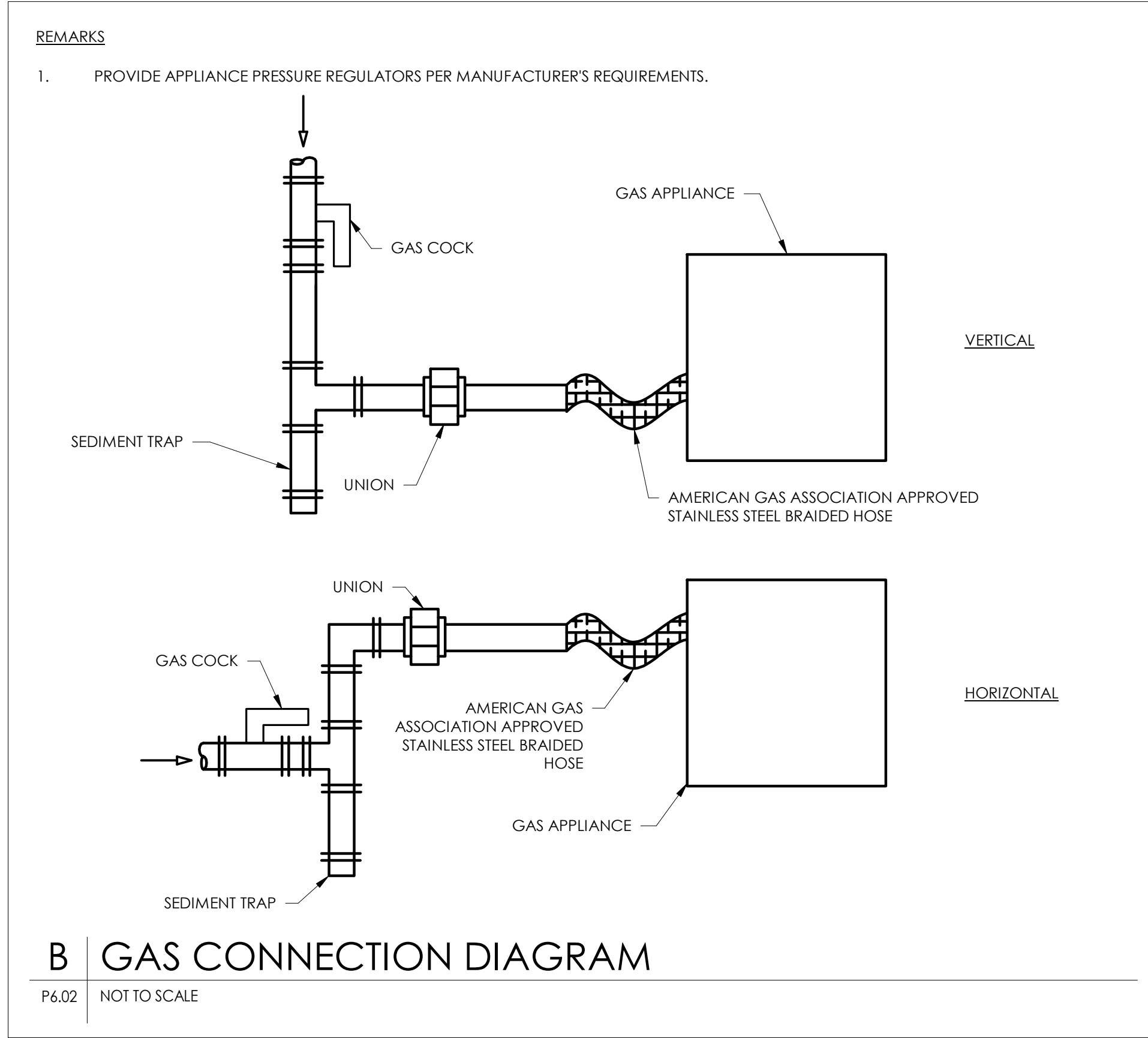
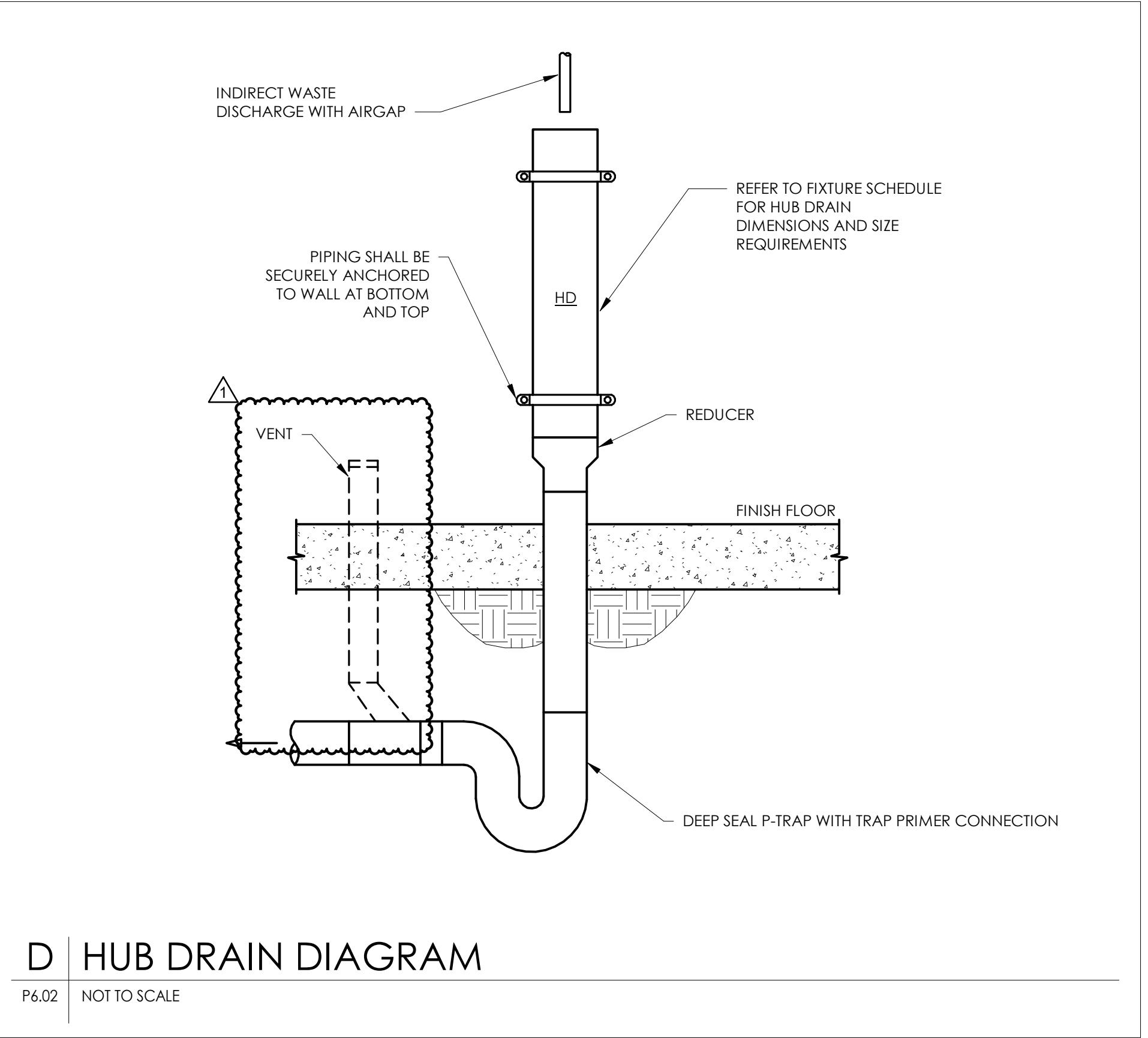
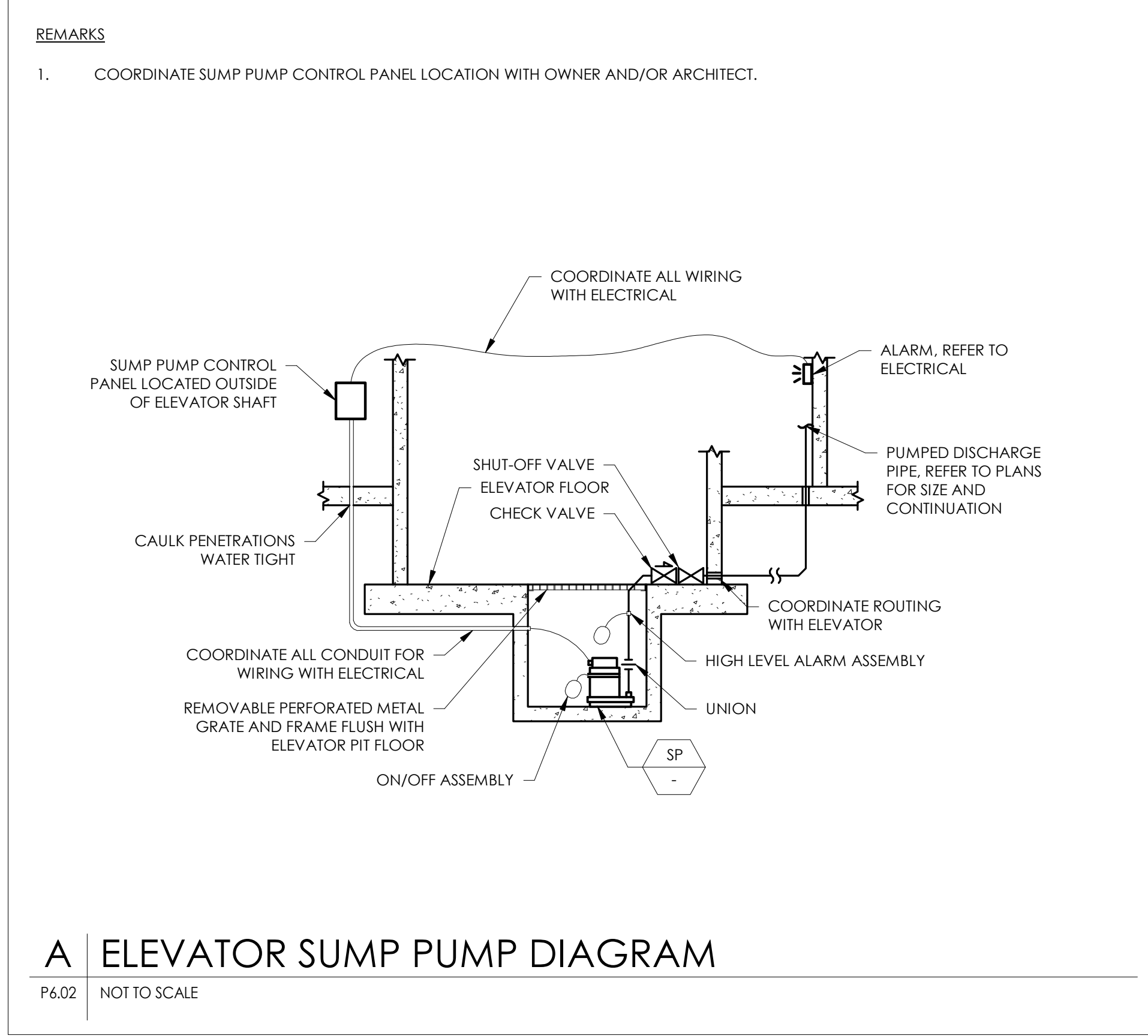
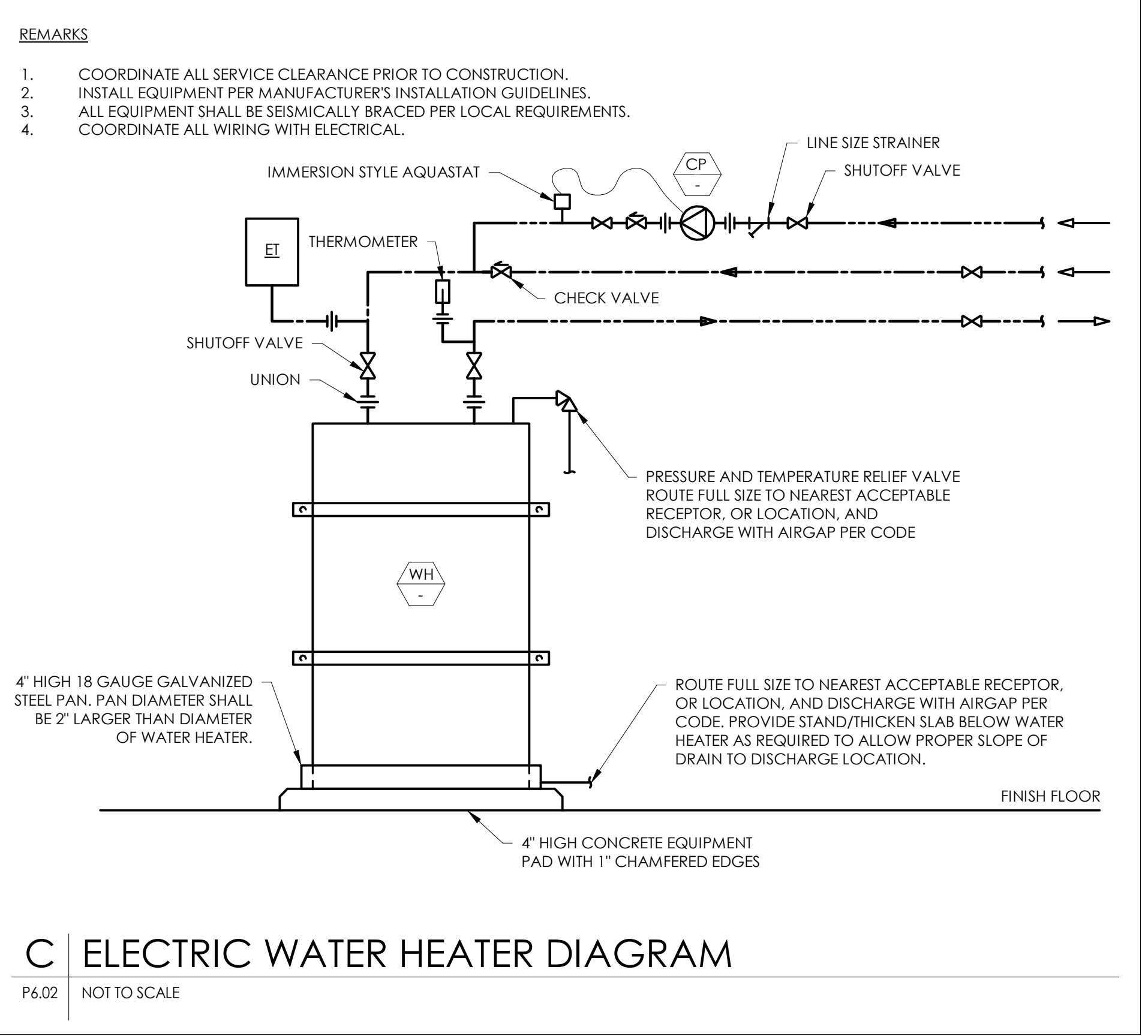


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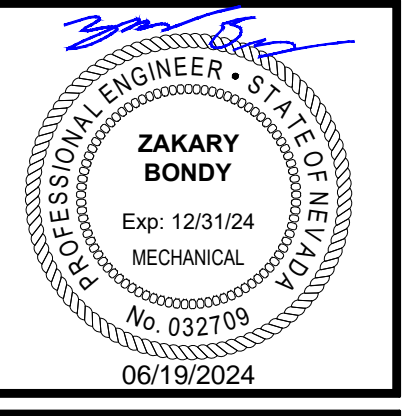
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5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
DIAGRAMS

**PERMIT**

**REVISIONS**

No.	Description	Date
1	CLV COM.	6/21/24

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### MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AABC	AMERICAN AIR BALANCE COUNCIL	GPM	GALLONS PER MINUTE	OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
ADA	AMERICANS WITH DISABILITY ACT	GR	GRAINS		
AFF	ABOVE FINISH FLOOR			PA	PRESSURE AVAILABLE
AP	ACCESS PANEL	H	HEIGHT	PD	PRESSURE DROP
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	HOA	HANDS OFF AUTO	PDI	PLUMBING DRAINAGE INSTITUTE
		HP	HORSEPOWER	PH	PHASE
BHP	BRAKE HORSEPOWER	HR	HOUR	PPM	PARTS PER MILLION
BMS	BUILDING MANAGEMENT SYSTEM	HZ	HERTZ	PRV	PRESSURE REDUCING VALVE
BOS	BOTTOM OF STEEL			PSI	POUNDS PER SQUARE INCH
BOH	BACK OFHOUSE	IBC	INTERNATIONAL BUILDING CODE		
BTU	BRITISH THERMAL UNIT	IFC	INTERNATIONAL FIRE CODE	RH	RELATIVE HUMIDITY
		IFGC	INTERNATIONAL FUEL GAS CODE	RPM	REVOLUTIONS PER MINUTE
CFH	CUBIC FEET PER HOUR	IMC	INTERNATIONAL MECHANICAL CODE		
CFM	CUBIC FEET PER MINUTE	IN	INCH	SEER	SEASONAL ENERGY EFFICIENCY RATIO
CO	CARBON MONOXIDE	IPC	INTERNATIONAL PLUMBING CODE	SP	STATIC PRESSURE
COP	COEFFICIENT OF PERFORMANCE			SQ FT	SQUARE FEET
		KW	KILOWATT		
DB	DRY BULB TEMPERATURE			TAB	TEST AND BALANCE
dB	DECIBEL	L	LENGTH	TDH	TOTAL DYNAMIC HEAD
DDC	DIRECT DIGITAL CONTROL	LAT	LEAVING AIR TEMPERATURE	TEL	TOTAL EQUIVALENT LENGTH
DIA Ø	DIAMETER	LBS	POUNDS	TSP	TOTAL STATIC PRESSURE
DP	DIFFERENTIAL PRESSURE	LWT	LEAVING WATER TEMPERATURE	TYP	TYPICAL
DX	DIRECT EXPANSION				
F	FIRE DAMPER	MAX	MAXIMUM	UMC	UNIFORM MECHANICAL CODE
		MBH	1000 BRITISH THERMAL UNITS PER HOUR	UNO	UNLESS NOTED OTHERWISE
		MCA	MINIMUM CIRCUIT AMPS	UPC	UNIFORM PLUMBING CODE
		MERV	MINIMUM EFFICIENCY REPORTING VALUE	UV	ULTRA VIOLET
		MIN	MINIMUM		
		MOC	MAXIMUM OVER CURRENT PROTECTION	V	VOLTS
				VAV	VARIABLE AIR VOLUME
		NA	NOT APPLICABLE	VFD	VARIABLE FREQUENCY DRIVE
		NC	NORMALLY CLOSED		
		NEC	NATIONAL ELECTRIC CODE	W	WATT OR WIDTH
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WB	WET BULB TEMPERATURE
		NIC	NOT IN CONTRACT	WC	WATER COLUMN
		NO	NORMALLY OPEN	WPD	WATER PRESSURE DROP
		NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE		
		NPSHR	NET POSITIVE SUCTION HEAD REQUIRED		

### MECHANICAL SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
## x ##		RECTANGULAR DUCTWORK (INCHES)
##"Ø		ROUND DUCTWORK (INCHES)
⊠	SA / OA	SUPPLY AIR / OUTSIDE AIR DUCT UP
⊡	SA / OA	SUPPLY AIR / OUTSIDE AIR DUCT DOWN
⊠	RA	RETURN AIR DUCT UP
⊡	RA	RETURN AIR DUCT DOWN
⊠	EA	EXHAUST AIR DUCT UP
⊡	EA	EXHAUST AIR DUCT DOWN
—		SINGLE LINE DUCTWORK
—		SINGLE LINE DUCTWORK WITH ACOUSTICAL LINER
—		DOUBLE LINE DUCTWORK
—		DOUBLE LINE DUCTWORK WITH ACOUSTICAL LINER
⊠		SUPPLY DIFFUSER
⊡		RETURN GILLE
⊠		EXHAUST GRILLE
—		LINEAR SLOT DIFFUSER / GRILLE
—	MVD	MANUAL VOLUME DAMPER
—	MVD	MANUAL REMOTE VOLUME DAMPER
—	DD	DUCT MOUNTED SMOKE DETECTOR
—	BD	BACKDRAFT DAMPER
—	MD	MOTORIZED DAMPER
—	FD	FIRE DAMPER
—	SD	SMOKE DAMPER
—	FSD	FIRE / SMOKE DAMPER
—	D	DRAIN PIPING
—	RL	REFRIGERANT LIQUID PIPING
—	RS	REFRIGERANT SUCTION PIPING
⊖		PIPING DROP DOWN
⊕		PIPING RISE UP
⊕		PIPING TEE DOWN
—		PIPING CONTINUATION
—		PIPING END CAP
—		PIPE OR DUCT REDUCER
—	SOV	SHUT OFF ISOLATION VALVE
⊖		THERMOSTAT
⊕		HUMIDISTAT
⊖		SPACE TEMPERATURE SENSOR
⊖		CARBON DIOXIDE SENSOR
→		DIRECTIONAL AIRFLOW ARROW

△	REVISION DELTA		
○	SHEET NOTE	<u>EQUIPMENT TAG</u>	<u>SHEET REFERENCE</u>
⊙	POINT OF CONNECTION	⊖ — EQUIPMENT ABBREVIATION	⊖ — REFERENCE LETTER / NUMBER
⊗	POINT OF DISCONNECTION	⊖ — EQUIPMENT NUMBER	⊖ — SHEET

SHEET NUMBER	SHEET DESCRIPTION	ISSUE
M0.00	COVER SHEET	
M0.01	GENERAL NOTES	
M0.10	SCHEDULES	
M0.11	SCHEDULES	
M0.12	SCHEDULES	
M1.00	OVERALL MECHANICAL PLAN - LOCATION PLAN	
M2.10	OVERALL MECHANICAL PLAN - FIRST FLOOR	
M2.20	OVERALL MECHANICAL PLAN - SECOND FLOOR	
M2.30	OVERALL MECHANICAL PLAN - THIRD FLOOR	
M4.00	OVERALL MECHANICAL PLAN - ROOF	
M4.10	ENLARGED MECHANICAL PLAN - UNITS	
M4.20	ENLARGED MECHANICAL PLAN - UNITS	
M5.00	DIAGRAMS	

ISSUE	DATE	DESCRIPTION
2024-04-26	PERMIT	
2024-06-21	CITY OF LAS VEGAS COMMENTS	

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 Suite #103  
 Las Vegas, NV 89113  
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**SHEET**  
 M0.00





Quantity System Type & Description

Fans:
FAN 4 Supply, Single-Zone VAV, 699 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Single fan <= SHP

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application...

Erik Brown - Mechanical Designer
Name - Title Signature Date

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Marion Bennett Senior Apartments
Location: Las Vegas, Nevada
Climate Zone: 3b
Project Type: Addition

Mechanical Systems List

Quantity System Type & Description

4 FC/HP 1-3, FC/HP 1-4, FC/HP 1-5, FC/HP 1-8 (Single Zone):
Split System Heat Pump
Heating Mode Capacity = 26 kBtu/h
Proposed Efficiency = 9.90 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode Capacity = 29 kBtu/h
Proposed Efficiency = 17.00 SEER, Required Efficiency = 14.00 SEER
Fan System: 3 TON FAN - Compliance (Motor nameplate HP and fan efficiency method) : Passes

Project Title: Marion Bennett Senior Apartments
Data filename:
Report date: 05/14/24
Page: 2 of 10

ELECTRICAL UNIT HEATER SCHEDULE

Table with columns: EQUIPMENT TAG, MANUFACTURER, MODEL NUMBER, AIRFLOW (CFM), CAPACITY (STAGES, OUTPUT (MBH)), ELECTRICAL (HP, V/PH HEATING (KW), AMPS), OPERATING WEIGHT (LBS), LOCATION, SERVES, REMARKS.

- 1. ACTUAL OPERATION AT 2,180 FEET ABOVE SEA LEVEL.
2. PROVIDE WITH BUILT-IN THERMOSTAT, ELECTRICAL DISCONNECT SWITCH AND MOTOR STARTER.
3. PROVIDE FACTORY SUPPLEMENTAL SUPPORT BRACKETS AS REQUIRED FOR INSTALLATION. CONTRACTOR TO VERIFY.
4. MOUNT UNIT IN WALL (UNIT IS 4" DEEP).

EXHAUST FAN SCHEDULE

Table with columns: EQUIPMENT TAG, MANUFACTURER, MODEL NUMBERS, SONES, MAX CFM, ESP, ELECTRICAL (HP (WATTS), FLA, HZ, VOLTS, PHASE), UNIT WEIGHT (LBS), LOCATION, SERVES, REMARKS.

- 1. ACTUAL OPERATION AT 2,180 FEET ABOVE SEA LEVEL.
2. PROVIDE SUPPLEMENTAL SUPPORTS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE DIRECT DRIVE, CEILING MOUNTED FAN WITH INTEGRAL BACKDRAFT DAMPER AND MANUFACTURER'S GRILLE (COORDINATE COLOR WITH ARCHITECT PRIOR TO ORDERING).
4. FAN TO BE CONTROLLED VIA SWITCH ON WALL. COORDINATE EXACT LOCATION OF SWITCH WITH INTERIOR DESIGNER.
5. FAN TO RUN CONTINUOUSLY.
6. EXHAUST FAN TO OPERATE UPON THE FIRE PUMP START UP.
7. INTERLOCK WITH L-2 MOTORIZED DAMPER.
8. SEE PLANS UNIT PLANS FOR SPEED SETTING ADJUSTMENT, (30 CFM IN ONE BEDROOM UNITS AND 40 CFM IN TWO BEDROOM UNITS).

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

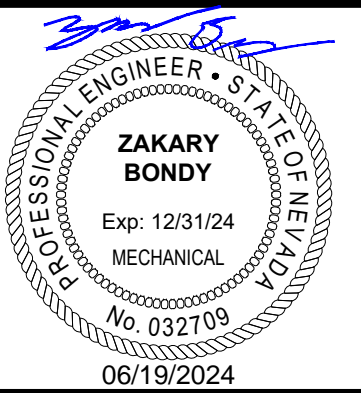
Table with columns: EQUIPMENT TAG (FAN COIL, CONDENSER), SERVICE, MANUFACTURER, MODEL NUMBER, COOLING CYCLE (EAT, TOTAL, SENSIBLE, AMBIENT, SEER), HEATING CYCLE (TOTAL, AMBIENT, HSPF), FAN COIL UNIT (AIRFLOW, RATED AMPS, V/PH, MAXIMUM OPERATING WEIGHT), CONDENSING UNIT (UNIT MCA, UNIT MOC, V/PH, MAXIMUM OPERATING WEIGHT), REMARKS.

DIFFUSER AND REGISTER SCHEDULE

Table with columns: DIFFUSER TAG, SUPPLY DESCRIPTION, RETURN/EXHAUST DESCRIPTION, and detailed specifications for diffusers and registers.



5195 S. Durango Drive
Suite #103
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SHEET TITLE: SCHEDULES

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Table with columns: No., Description, Date for REVISIONS.

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### ASHRAE 62.1 VENTILATION COMPLIANCE - COMMON AREAS

AREAS SERVED	SYSTEM	AREA CALCULATION			OCCUPANT CALCULATION			TOTAL OA REQUIRED (CFM)	TOTAL OA PROVIDED (CFM)
		AREA (SQ FT)	AREA OA RATE (CFM/SQ FT)	AREA OA REQUIRED (CFM)	OCCUPANT QUANTITY	OCCUPANT OA RATE (CFM/PERSON)	OCCUPANT OA REQUIRED (CFM)		
CORRIDORS	FC 1-1	661	0.06	40	0	0	0	40	50
CORRIDORS	FC 1-2	389	0.06	24	0	0	0	25	50
LOBBIES	FC 1-3 / FC 1-4	1185	0.06	72	50	5	250	322	325
SOCIAL ROOM / WELLNESS ROOM	FC 1-4	500	0.06	30	12	7.5	90	120	125
COMMUNITY ROOM	FC 1-5	660	0.06	40	25	7.5	188	228	250
CORRIDORS	FC 1-6	426	0.06	26	0	0	0	26	30
LAUNDRY	FC 1-6	85	0.12	11	1	5	5	16	20
STORAGE	FC 1-7	1245	0.06	75	3	5	15	90	100
CORRIDORS	FC 1-8	455	0.06	28	0	0	0	28	50
CORRIDORS	FC 2-1	665	0.06	40	0	0	0	40	50
CORRIDORS	FC 2-2	390	0.06	24	0	0	0	24	50
WEIGHT ROOM	FC 2-3	425	0.06	26	4	20	80	106	110
LOBBY	FC 2-4	870	0.06	53	25	5	100	153	175
SOCIAL ROOM / COMMUNITY ROOM	FC 2-5	500	0.06	30	12	7.5	90	120	125
CORRIDORS	FC 2-6	430	0.06	26	0	0	0	26	30
LAUNDRY	FC 2-6	85	0.12	11	1	5	5	16	20
CORRIDORS	FC 2-7	460	0.06	28	0	0	0	28	50
CORRIDORS	FC 3-1	665	0.06	40	0	0	0	40	50
CORRIDORS	FC 3-2	390	0.06	24	0	0	0	24	50
SOCIAL ROOM	FC 3-5	500	0.06	30	10	7.5	75	105	125
LOBBY	FC 3-4	1295	0.06	78	25	5	100	178	200
SOCIAL ROOM	FC 3-5	500	0.06	30	10	7.5	75	105	125
CORRIDORS	FC 3-6	430	0.06	26	0	0	0	26	30
LAUNDRY	FC 3-6	85	0.12	11	1	5	5	16	20
CORRIDORS	FC 3-7	460	0.06	28	0	0	0	28	50

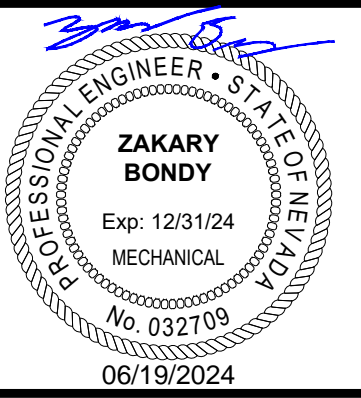
### ASHRAE 62.2 VENTILATION COMPLIANCE

ROOM	SYSTEM	AREA CALCULATION			OCCUPANT CALCULATION			TOTAL OA REQUIRED (CFM)	TOTAL OA PROVIDED (CFM)
		AREA (SQ FT)	AREA OA RATE (CFM/SQ FT)	AREA OA REQUIRED (CFM)	OCCUPANT QUANTITY	OCCUPANT OA RATE (CFM/PERSON)	OCCUPANT OA REQUIRED (CFM)		
UNIT TYPE 1A	FC 1A	710	0.06	43	1	5	5	48	50
UNIT TYPE 1B	FC 1B	710	0.06	43	1	5	5	48	50
UNIT TYPE 1C	FC 1C	710	0.06	43	1	5	5	48	50
UNIT TYPE 2D	FC 2D	765	0.06	46	2	5	10	56	75
UNIT TYPE 2E	FC 2E	765	0.06	46	2	5	10	56	75



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SHEET TITLE:  
**SCHEDULES**

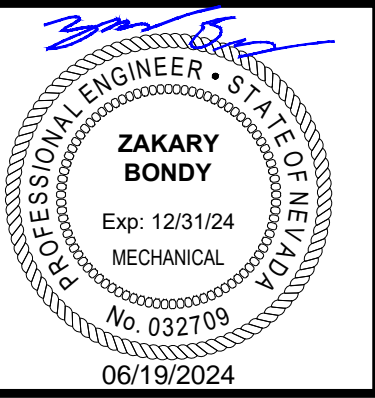
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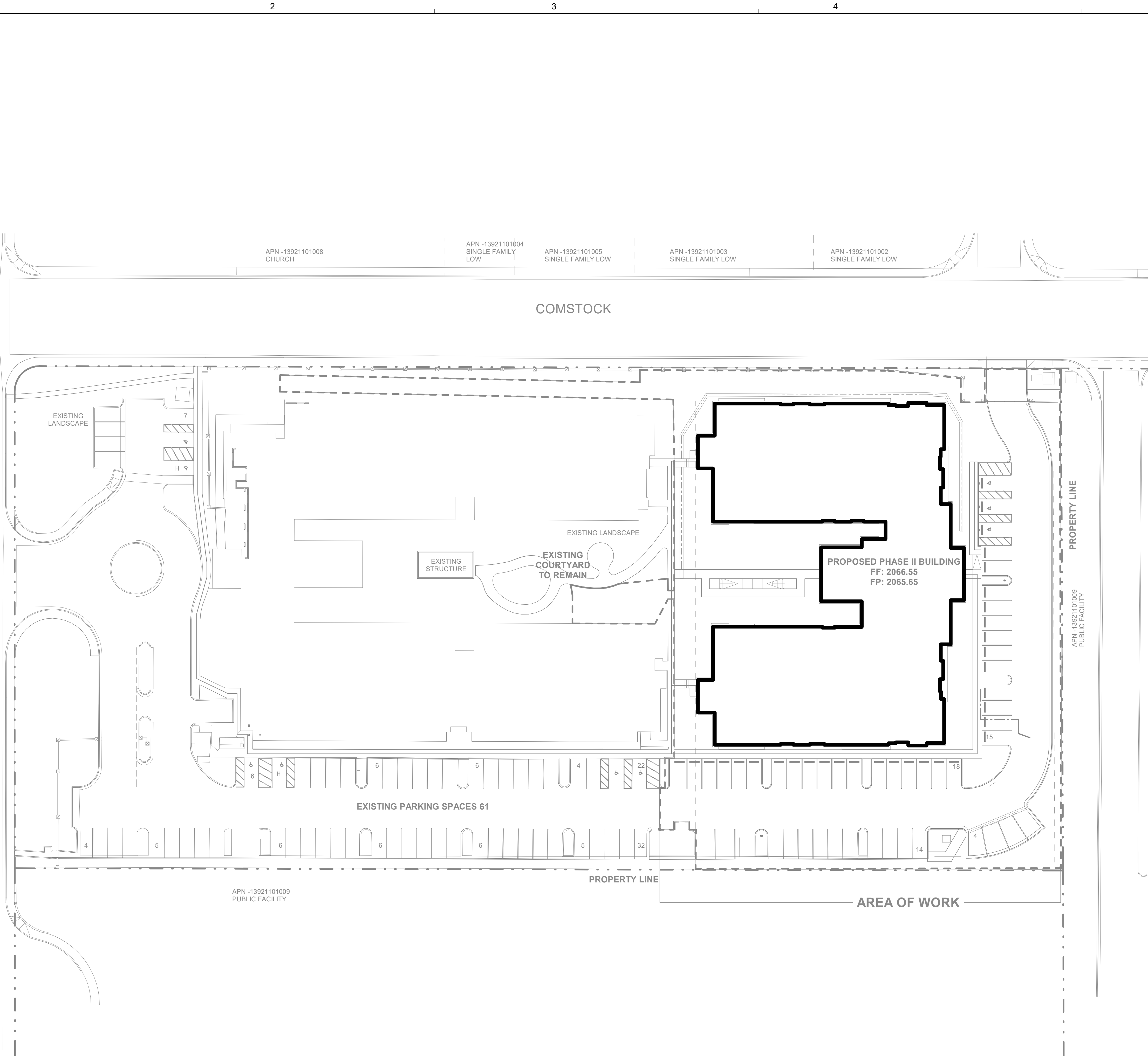
**SHEET TITLE:**  
OVERALL MECHANICAL PLAN - LOCATION PLAN

**PERMIT**

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APN -13921101008 CHURCH  
APN -13921101004 SINGLE FAMILY LOW  
APN -13921101005 SINGLE FAMILY LOW  
APN -13921101003 SINGLE FAMILY LOW  
APN -13921101002 SINGLE FAMILY LOW

COMSTOCK

BALZAR

APN -13921101050 SINGLE FAMILY LOW  
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APN -13921101009 PUBLIC FACILITY

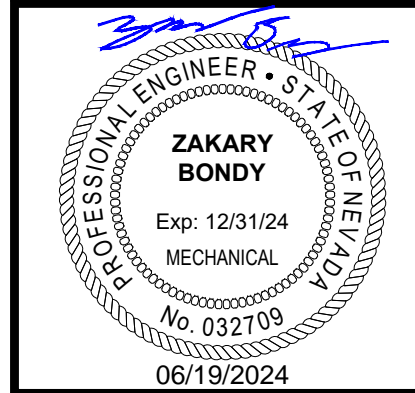
APN -13921101009 PUBLIC FACILITY

**1** OVERALL MECHANICAL PLAN - LOCATION PLAN  
SCALE: 1" = 30'-0"

### NOTICE

- A. PROVIDE BALANCING DAMPERS FOR ALL DIFFUSERS AND GRILLES.
- B. REFER TO ARCHITECTURAL CEILING PLANS FOR DIFFUSER INSTALLATION HEIGHTS.
- C. OUTDOOR AIR INTAKES SHALL BE COVERED WITH A SCREEN WITH A MINIMUM 1/4" AND MAXIMUM 1/2" OPENINGS. AIR INTAKES SHALL PROTECT AGAINST RAIN. SCREENS SHALL BE IN COMPLIANCE WITH UMC SECTION 402.
- D. OUTDOOR AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET AWAY FROM HAZARDOUS OR NOXIOUS CONTAMINANTS SUCH AS VENTS, COMBUSTION AIR EXHAUST, FIRE PLACE EXHAUST, AND PLUMBING VENTS.
- E. OUTDOOR AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET ABOVE THE SURFACE OF AN ABUTTING PUBLIC WAY, SIDEWALK, STREET, ALLEY, OR DRIVEWAY.

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 Suite #103  
 Las Vegas, NV 89113  
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### SHEET NOTES

- 1 FAN COIL TO BE MOUNTED HORIZONTALLY IN THE SPACE ABOVE CEILING. PROVIDE A FILTERED RETURN GRILLE AT UNIT AND ACCESS PANEL IN CEILING TO FACILITATE ACCESS TO FAN COIL UNIT FOR INSTALLATION AND MAINTENANCE. COORDINATE LOCATION AND COLOR OF ACCESS PANEL WITH ARCHITECT. ROUTE REFRIGERANT LINESETS TO UNIT AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT TO NEAREST LAVATORY TAIL PIECE. SLOPE PIPING AT 1% MINIMUM.
- 2 FAN COIL TO BE MOUNTED HORIZONTALLY IN THE SPACE ABOVE CEILING. PROVIDE ACCESS PANEL IN CEILING TO FACILITATE ACCESS TO FAN COIL UNIT FOR INSTALLATION AND MAINTENANCE. COORDINATE LOCATION AND COLOR OF ACCESS PANEL WITH ARCHITECT. ROUTE REFRIGERANT LINESETS TO UNIT AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT TO NEAREST LAVATORY TAIL PIECE. SLOPE PIPING AT 1% MINIMUM.
- 3 INSTALL UNIT HEATER IN WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 4 INSTALL IN LINE EXHAUST FAN IN CEILING PER MANUFACTURER'S RECOMMENDATIONS.
- 5 PROVIDE OUTSIDE AIR DUCT CONNECTION TO UNIT. BALANCE TO OUTSIDE AIR CFM LISTED ON SHEET M0.10, AND ROUTE TO EXTERIOR. TERMINATE WITH XVENT SEB TYPE WALL LOUVER OR SIMILAR WITH 0.7 SF FREE AREA.
- 6 ROUTE 12" DIAMETER EXHAUST DUCT TO EXTERIOR AND CAP WITH XVENT 12SEB EXHAUST LOUVER OR SIMILAR WITH 1.2 SF FREE AREA.
- 7 PROVIDE OUTSIDE AIR DUCT CONNECTION TO UNIT. BALANCE TO OUTSIDE AIR CFM LISTED ON SHEET M0.10, AND ROUTE TO EXTERIOR. TERMINATE WITH XVENT SEB TYPE WALL LOUVER OR SIMILAR WITH 1.1 SF FREE AREA.
- 8 DROP CEILING TO ACCOMMODATE FAN COIL AND DUCTWORK. COORDINATE CEILING HEIGHTS WITH ARCHITECT.
- 9 PLACE DIFFUSERS BELOW SOFFIT SPACE. COORDINATE DUCTWORK WITH CEILING PLANS.
- 10 DRYER EXHAUST DUCT TO EXTERIOR. CAP WITH APPROVED DRYER EXHAUST VENT.

**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
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**SHEET TITLE:**  
 OVERALL MECHANICAL PLAN - FIRST FLOOR

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### REVISIONS

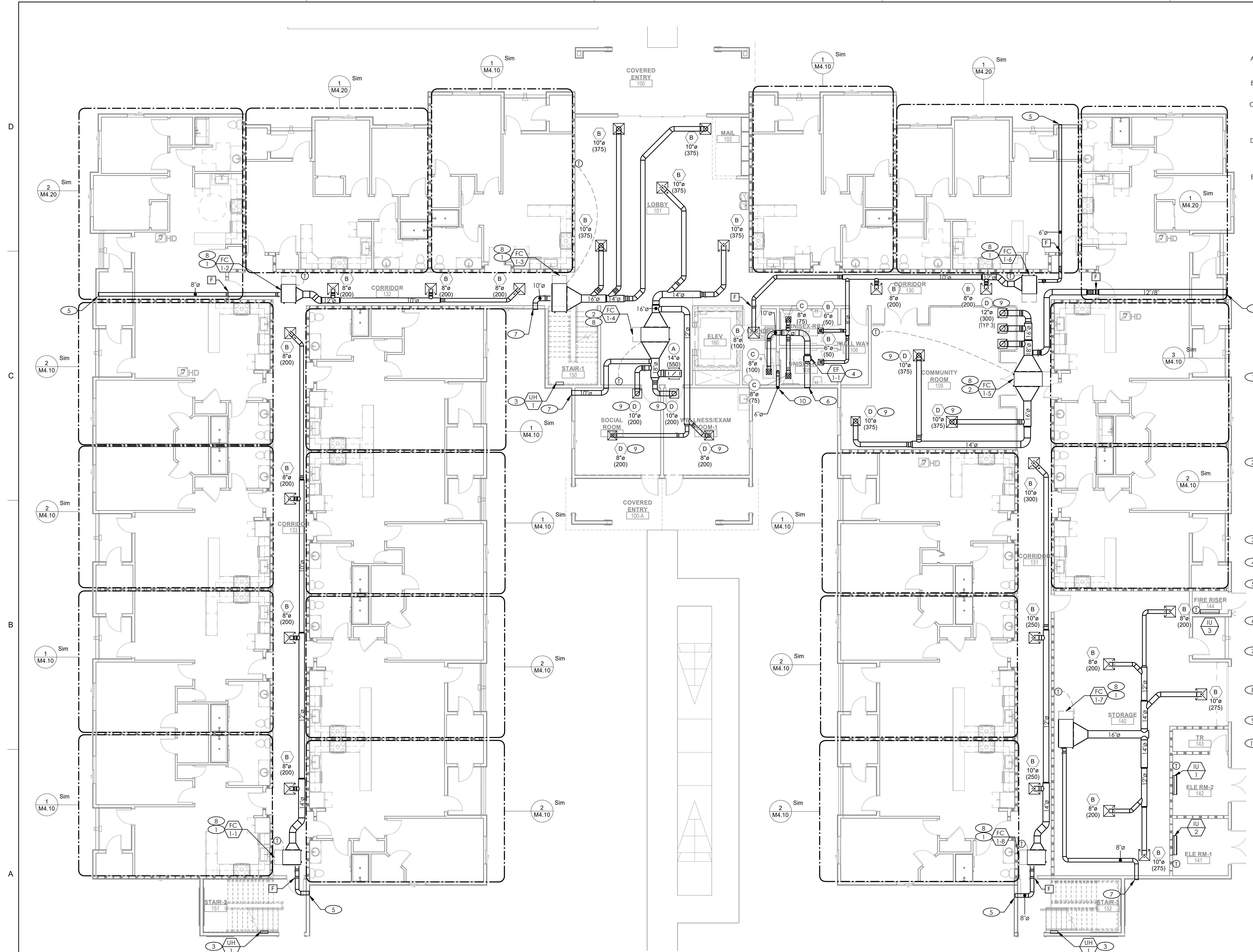
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**M2.10**

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 LAS VEGAS, NV 89120  
 702-514-3361



**1 OVERALL MECHANICAL PLAN - FIRST FLOOR**  
 SCALE: 1/8" = 1'-0"

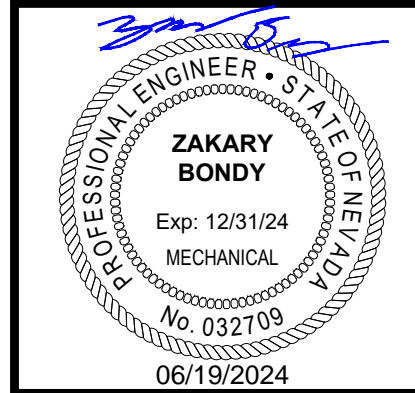


### NOTICE

- A. PROVIDE BALANCING DAMPERS FOR ALL DIFFUSERS AND GRILLES.
- B. REFER TO ARCHITECTURAL CEILING PLANS FOR DIFFUSER INSTALLATION HEIGHTS.
- C. OUTDOOR AIR INTAKES SHALL BE COVERED WITH A SCREEN WITH A MINIMUM 1/4" AND MAXIMUM 1/2" OPENINGS. AIR INTAKES SHALL PROTECT AGAINST RAIN. SCREENS SHALL BE IN COMPLIANCE WITH UMC SECTION 402.
- D. OUTDOOR AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET AWAY FROM HAZARDOUS OR NOXIOUS CONTAMINANTS SUCH AS VENTS, COMBUSTION AIR EXHAUST, FIRE PLACE EXHAUST, AND PLUMBING VENTS.
- E. OUTDOOR AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET ABOVE THE SURFACE OF AN ABUTTING PUBLIC WAY, SIDEWALK, STREET, ALLEY, OR DRIVEWAY.



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### SHEET NOTES

- 1 FAN COIL TO BE MOUNTED HORIZONTALLY IN THE SPACE ABOVE CEILING. PROVIDE A FILTERED RETURN GRILLE AT UNIT AND ACCESS PANEL IN CEILING TO FACILITATE ACCESS TO FAN COIL UNIT FOR INSTALLATION AND MAINTENANCE. COORDINATE LOCATION AND COLOR OF ACCESS PANEL WITH ARCHITECT. ROUTE REFRIGERANT LINESETS TO UNIT AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT TO NEAREST LAVATORY TAIL PIECE. SLOPE PIPING AT 1% MINIMUM.
- 2 INSTALL FAN IN CEILING. ROUTE EXHAUST DUCT TO EXTERIOR. SIZE DUCT PER MANUFACTURER'S RECOMMENDATIONS. FAN TO BE CONTROLLED BY SWITCH ON WALL NEXT TO LIGHTSWITCH.
- 3 PROVIDE OUTSIDE AIR DUCT CONNECTION TO UNIT. BALANCE TO OUTSIDE AIR CFM LISTED ON SHEET M0.10, AND ROUTE TO EXTERIOR. TERMINATE WITH XVENT SEB TYPE WALL LOUVER OR SIMILAR WITH 0.7 SF FREE AREA.
- 4 PROVIDE OUTSIDE AIR DUCT CONNECTION TO UNIT. BALANCE TO OUTSIDE AIR CFM LISTED ON SHEET M0.10, AND ROUTE TO EXTERIOR. TERMINATE WITH XVENT SEB TYPE WALL LOUVER OR SIMILAR WITH 1.1 SF FREE AREA.
- 5 ROUTE 8" DIAMETER EXHAUST DUCT TO EXTERIOR AND CAP WITH XVENT 8-SEB EXHAUST LOUVER OR SIMILAR WITH 0.4 SF FREE AREA.
- 6 DROP CEILING TO ACCOMMODATE FAN COIL AND DUCTWORK. COORDINATE CEILING HEIGHTS WITH ARCHITECT.
- 7 PLACE DIFFUSERS BELOW SOFFIT SPACE. COORDINATE DUCTWORK WITH CEILING PLANS.
- 8 INSTALL FAN IN CEILING. ROUTE EXHAUST DUCT TO EXTERIOR. SIZE DUCT PER MANUFACTURER'S RECOMMENDATIONS. FAN TO BE CONTROLLED BY SWITCH ON WALL NEXT TO LIGHTSWITCH.
- 9 DRYER EXHAUST DUCT TO EXTERIOR. CAP WITH APPROVED DRYER EXHAUST VENT.
- 10 FAN COIL TO BE MOUNTED HORIZONTALLY IN THE SPACE ABOVE CEILING. PROVIDE ACCESS PANEL IN CEILING TO FACILITATE ACCESS TO FAN COIL UNIT FOR INSTALLATION AND MAINTENANCE. COORDINATE LOCATION AND COLOR OF ACCESS PANEL WITH ARCHITECT. ROUTE REFRIGERANT LINESETS TO UNIT AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT TO NEAREST LAVATORY TAIL PIECE. SLOPE PIPING AT 1% MINIMUM.

**SNRHA BENNETT PLAZA PHASE II**  
 1818 Balzar Ave. Las Vegas, NV 89106

PROJECT:

SHEET TITLE:

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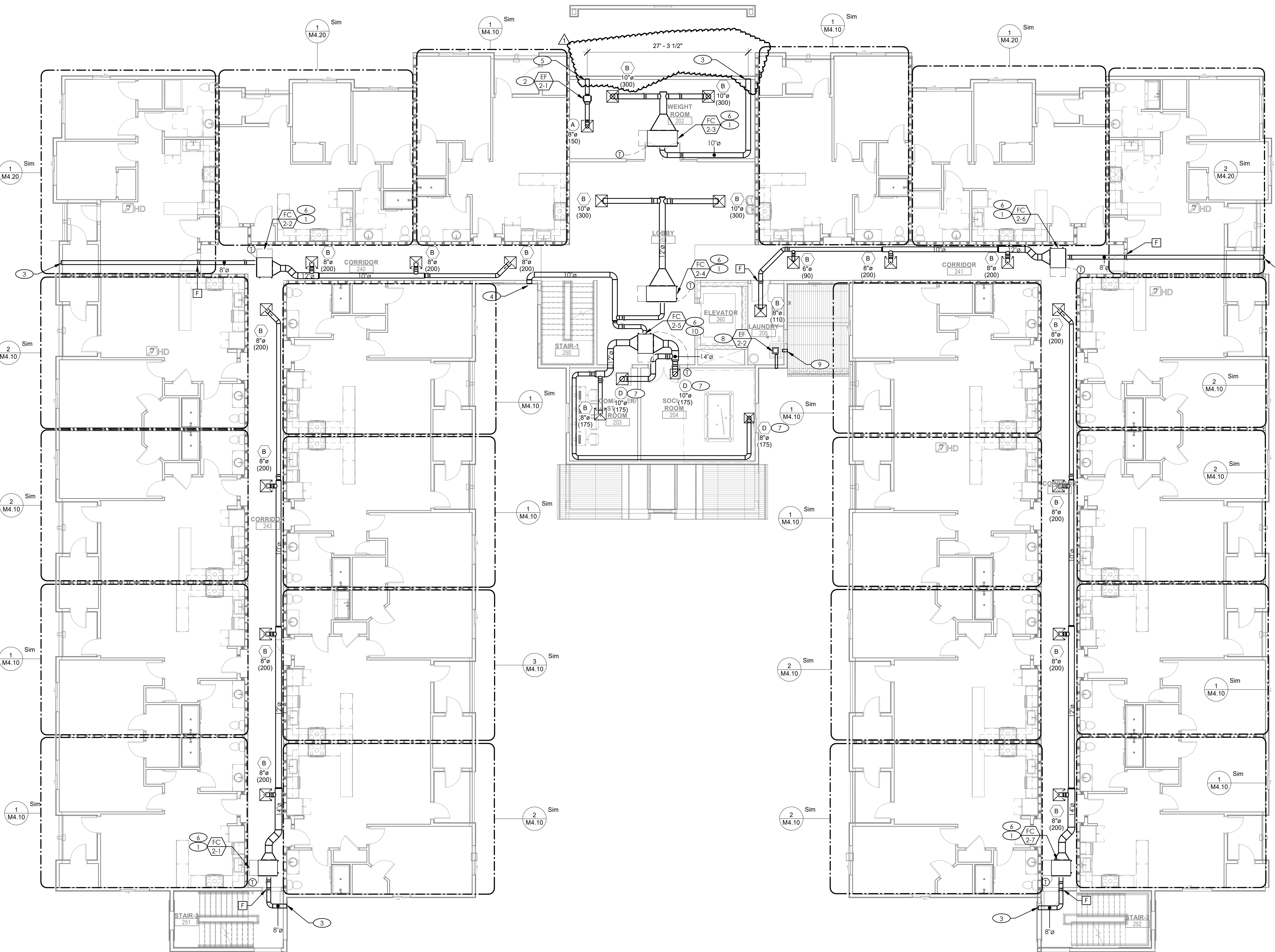
No.	Description	Date
1	CLV COM.	6/21/24

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SHEET

M2.20

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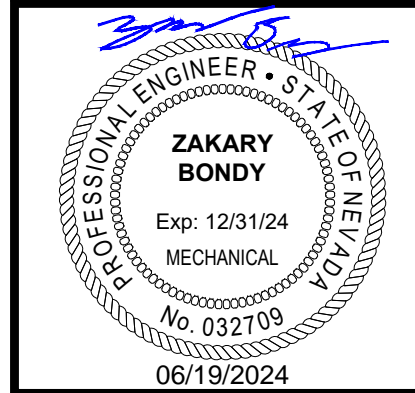
**1 OVERALL MECHANICAL PLAN - SECOND FLOOR**  
 SCALE: 1/8" = 1'-0"

### NOTICE

- A. PROVIDE BALANCING DAMPERS FOR ALL DIFFUSERS AND GRILLES.
- B. REFER TO ARCHITECTURAL CEILING PLANS FOR DIFFUSER INSTALLATION HEIGHTS.
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### SHEET NOTES

- 1 FAN COIL TO BE MOUNTED HORIZONTALLY IN THE SPACE ABOVE CEILING. PROVIDE A FILTERED RETURN GRILLE AT UNIT AND ACCESS PANEL IN CEILING TO FACILITATE ACCESS TO FAN COIL UNIT FOR INSTALLATION AND MAINTENANCE. COORDINATE LOCATION AND COLOR OF ACCESS PANEL WITH ARCHITECT. ROUTE REFRIGERANT LINESETS TO UNIT AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT TO NEAREST LAVATORY TAIL PIECE. SLOPE PIPING AT 1% MINIMUM.
- 2 INSTALL FAN IN CEILING. ROUTE EXHAUST DUCT TO EXTERIOR. SIZE DUCT PER MANUFACTURER'S RECOMMENDATIONS. FAN TO BE CONTROLLED BY SWITCH ON WALL NEXT TO LIGHTSWITCH.
- 3 PROVIDE OUTSIDE AIR DUCT CONNECTION TO UNIT. BALANCE TO OUTSIDE AIR CFM LISTED ON SHEET M0.10, AND ROUTE TO EXTERIOR. TERMINATE WITH XVENT SEB TYPE WALL LOUVER OR SIMILAR WITH 0.7 SF FREE AREA.
- 4 PROVIDE OUTSIDE AIR DUCT CONNECTION TO UNIT. BALANCE TO OUTSIDE AIR CFM LISTED ON SHEET M0.10, AND ROUTE TO EXTERIOR. TERMINATE WITH XVENT SEB TYPE WALL LOUVER OR SIMILAR WITH 1.1 SF FREE AREA.
- 5 DRYER EXHAUST DUCT TO EXTERIOR. CAP WITH APPROVED DRYER EXHAUST VENT.

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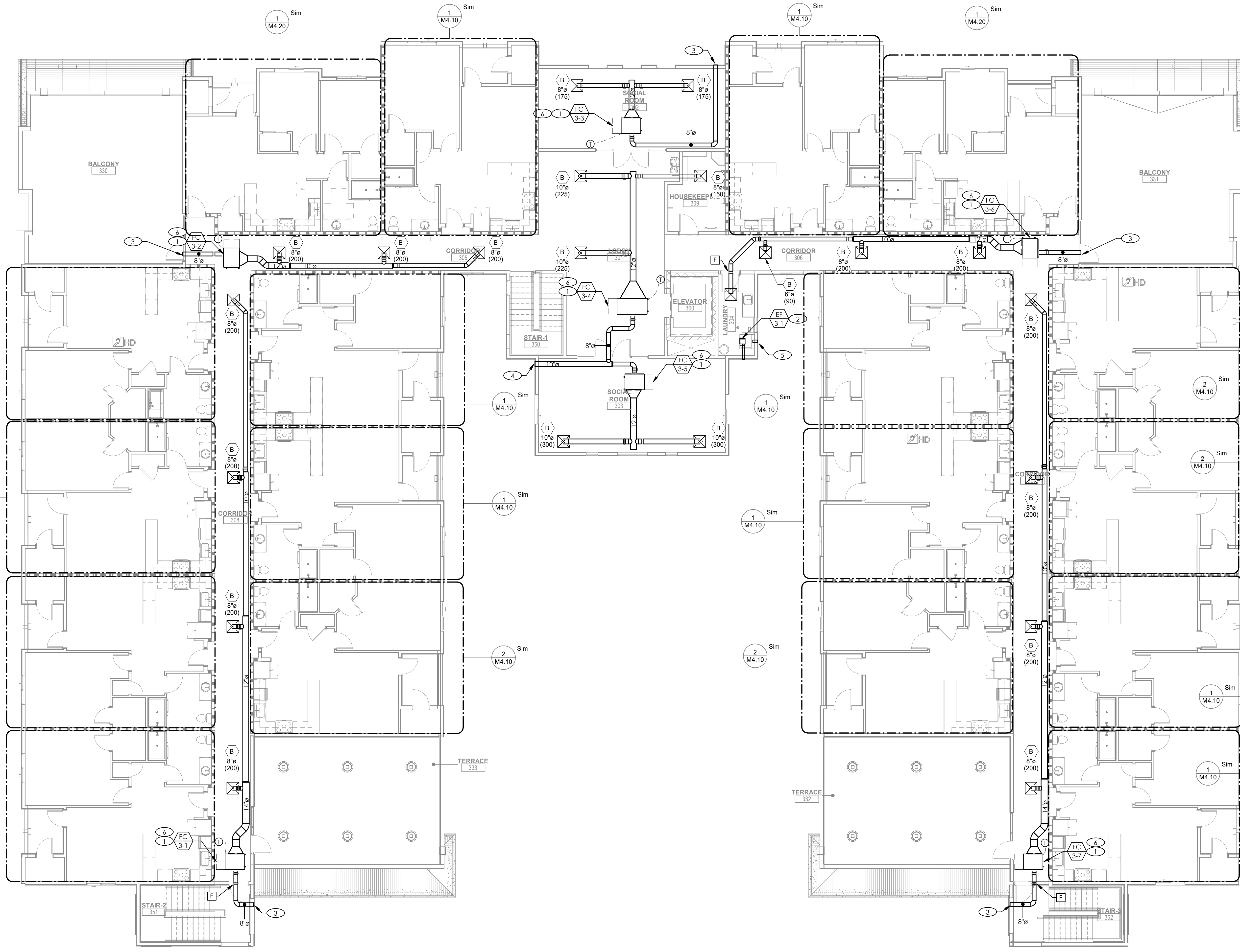
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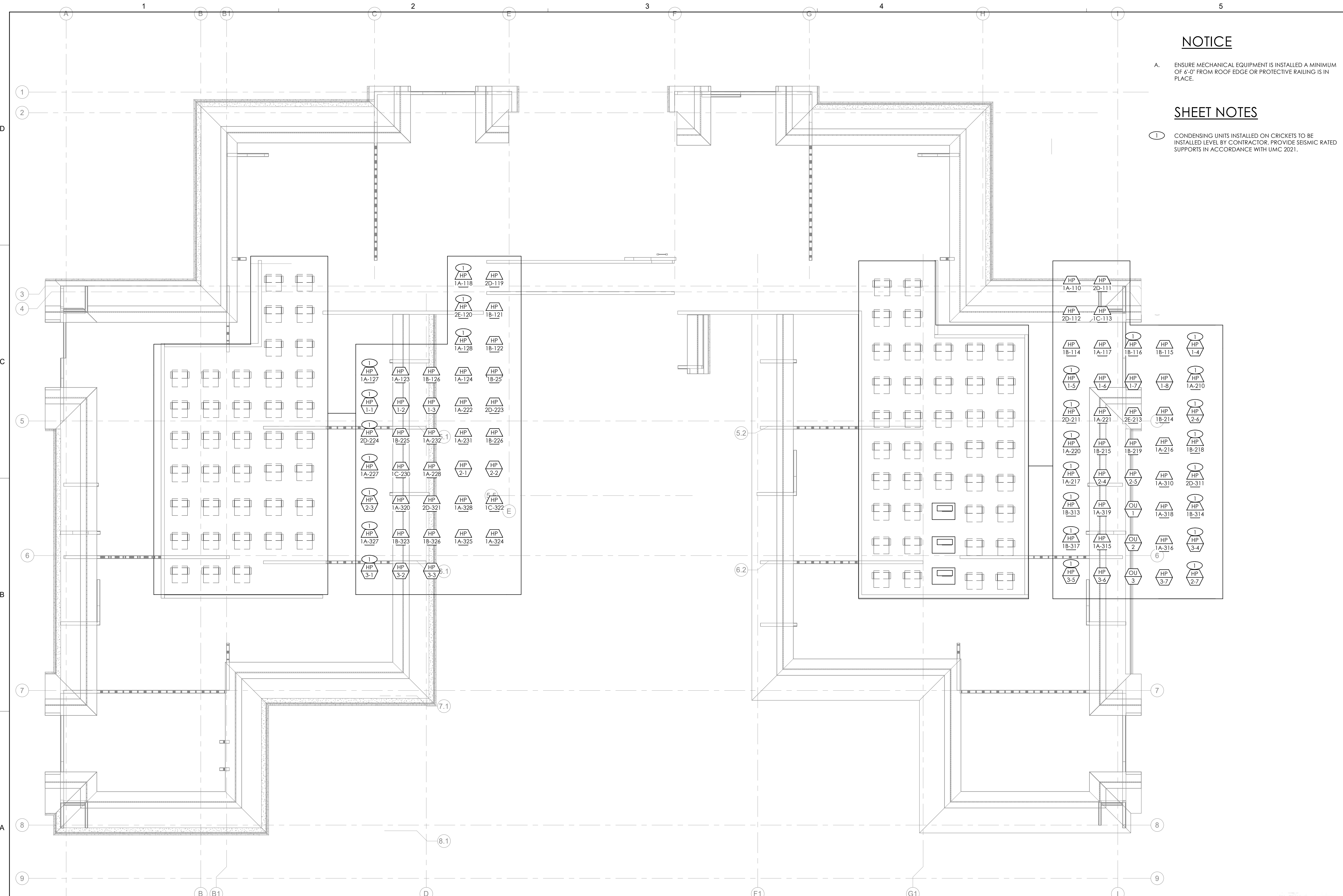
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**1 OVERALL MECHANICAL PLAN - THIRD FLOOR**  
 SCALE: 1/8" = 1'-0"



**NOTICE**

A. ENSURE MECHANICAL EQUIPMENT IS INSTALLED A MINIMUM OF 6'-0" FROM ROOF EDGE OR PROTECTIVE RAILING IS IN PLACE.

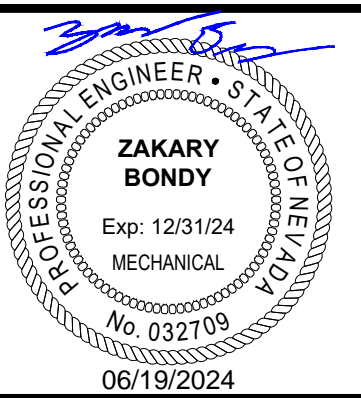
**SHEET NOTES**

1 CONDENSING UNITS INSTALLED ON CRICKETS TO BE INSTALLED LEVEL BY CONTRACTOR. PROVIDE SEISMIC RATED SUPPORTS IN ACCORDANCE WITH UMC 2021.



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SNRHA BENNETT PLAZA PHASE II  
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**SHEET TITLE:**  
OVERALL MECHANICAL PLAN - ROOF

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**REVISIONS**

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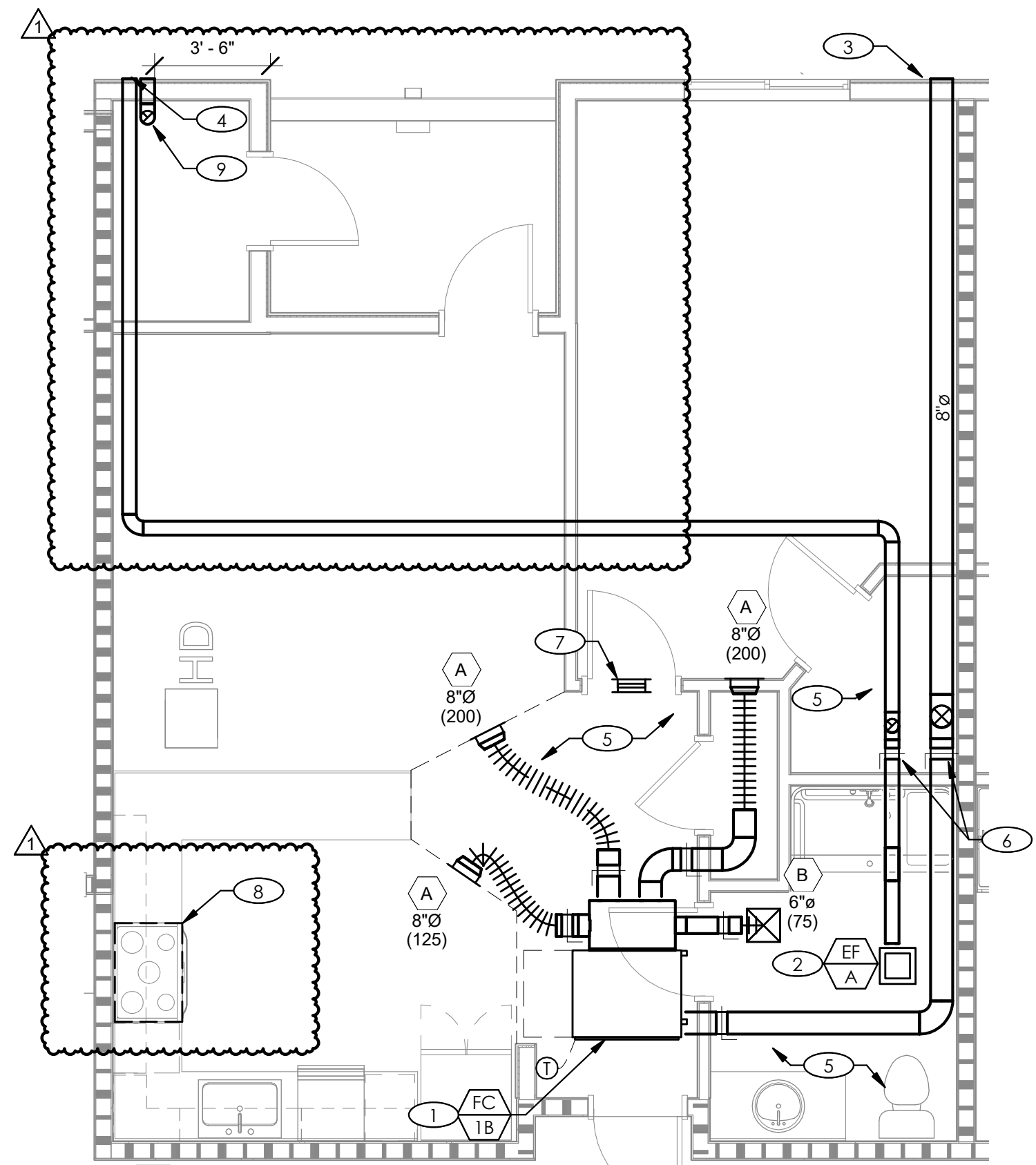
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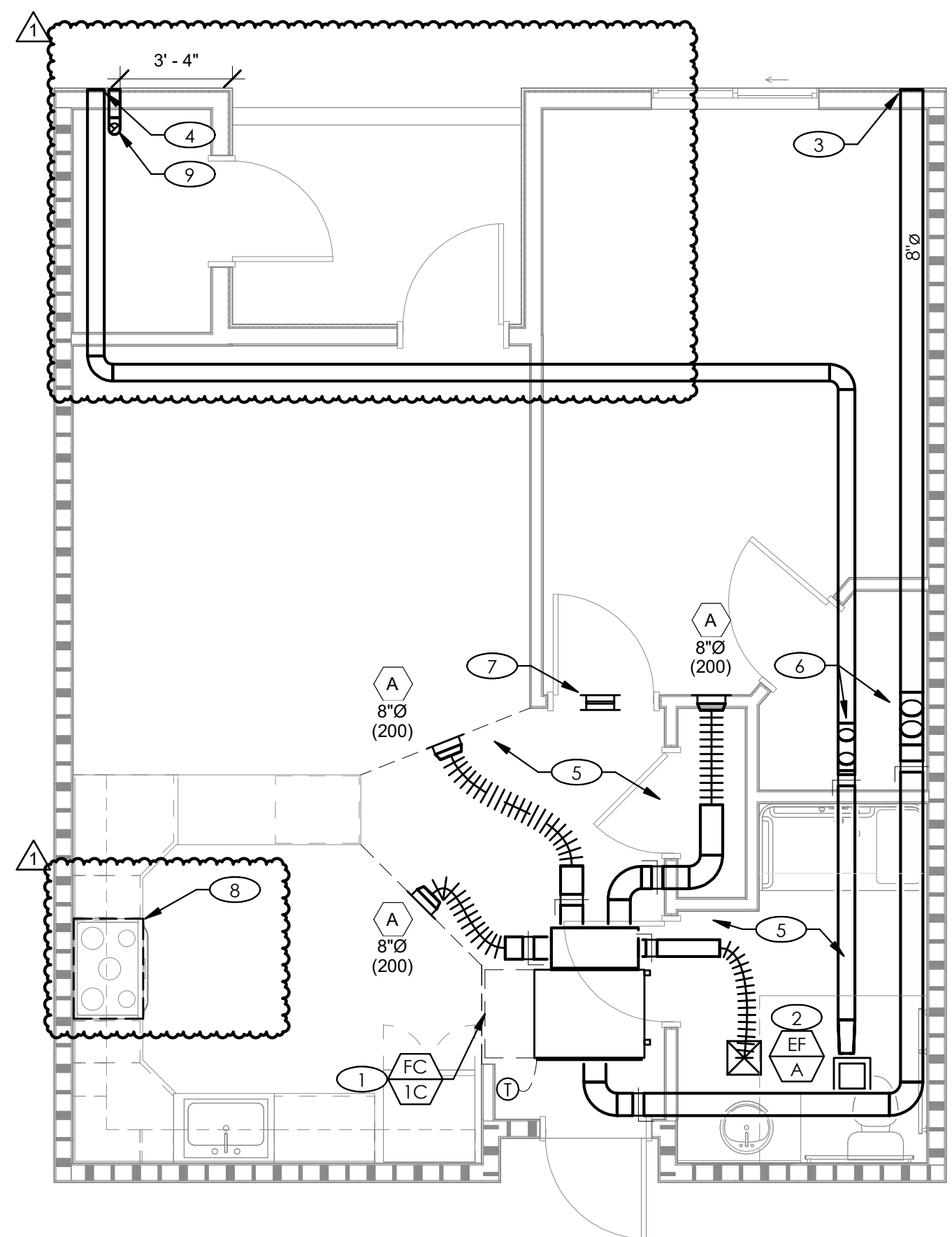
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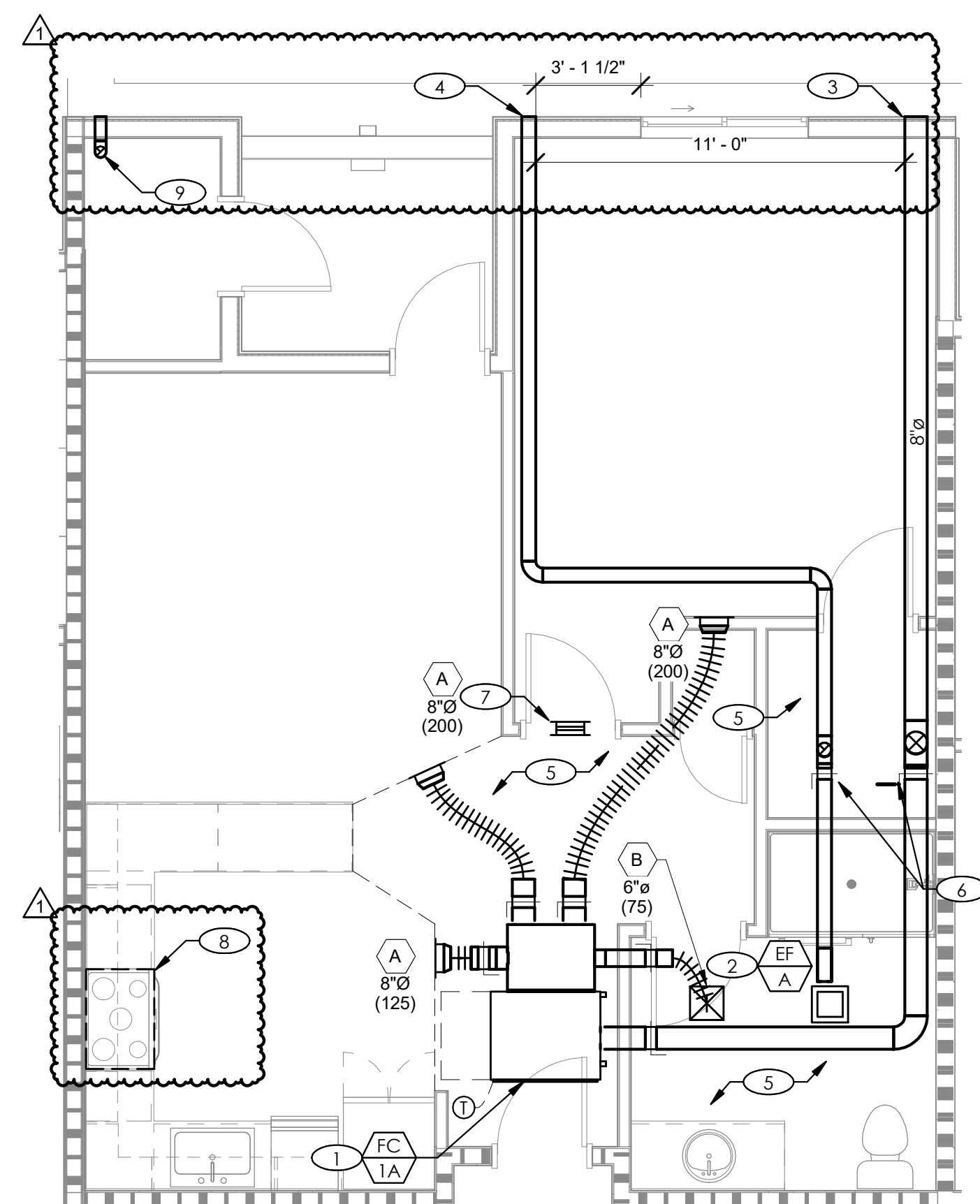
**1 OVERALL MECHANICAL PLAN - ROOF**  
SCALE: 1/8" = 1'-0"



2 ENLARGED MECHANICAL PLAN - 1B TYPE B  
SCALE: 1/4" = 1'-0"



3 ENLARGED MECHANICAL PLAN - 1C TYPE A  
SCALE: 1/4" = 1'-0"

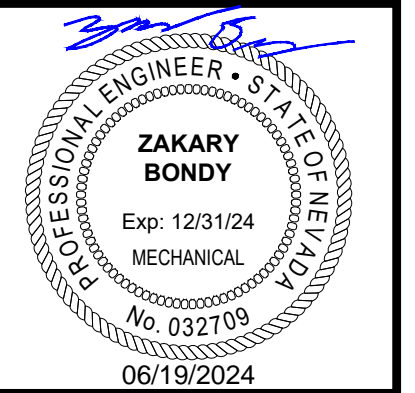


1 ENLARGED MECHANICAL PLAN - 1A TYPE B  
SCALE: 1/4" = 1'-0"

**SHEET NOTES**

- 1 FAN COIL TO BE MOUNTED HORIZONTALLY IN THE SPACE ABOVE CEILING AND CENTERED ABOVE DOORWAY. PROVIDE A FILTERED RETURN GRILLE AT UNIT AND ACCESS PANEL IN CEILING TO FACILITATE ACCESS TO FAN COIL UNIT FOR INSTALLATION AND MAINTENANCE. COORDINATE LOCATION AND COLOR OF ACCESS PANEL WITH ARCHITECT. ROUTE REFRIGERANT LINES TO UNIT AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT TO NEAREST LAVATORY TAIL PIECE. SLOPE PIPING AT 1% MINIMUM.
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- 4 CAP EXHAUST DUCT WITH APPROVED EXHAUST LOUVER.
- 5 DROP CEILING TO ACCOMMODATE FAN COIL AND DUCTWORK. COORDINATE CEILING HEIGHTS WITH ARCHITECT.
- 6 PROVIDE CEILING RADIATION DAMPER AT FIRE-RATED CEILING PENETRATION. PROVIDE ACCESS PANEL IN CLOSET FOR FIRE DAMPERS.
- 7 PROVIDE TWO TRANSFER GRILLES THROUGH THE WALL. TITUS 300RL 12"x6" MODULE SIZE OR SIMILAR. LOCATE ABOVE DOOR.
- 8 DUCTLESS RANGE HOOD. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO COORDINATE EQUIPMENT WITH ARCHITECT BEFORE PURCHASE.
- 9 WATER HEATER DIRECT VENT/FLUE TO EXTERIOR. SIZE PER MANUFACTURER'S RECOMMENDATIONS, AND CAP WITH APPROVED DIRECT VENT CAP.

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**SHEET TITLE:**  
ENLARGED MECHANICAL PLAN - UNITS

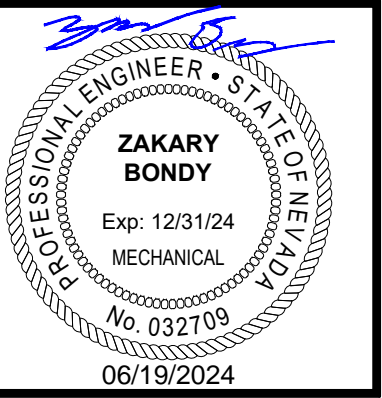
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SHEET TITLE:  
**ENLARGED MECHANICAL PLAN - UNITS**

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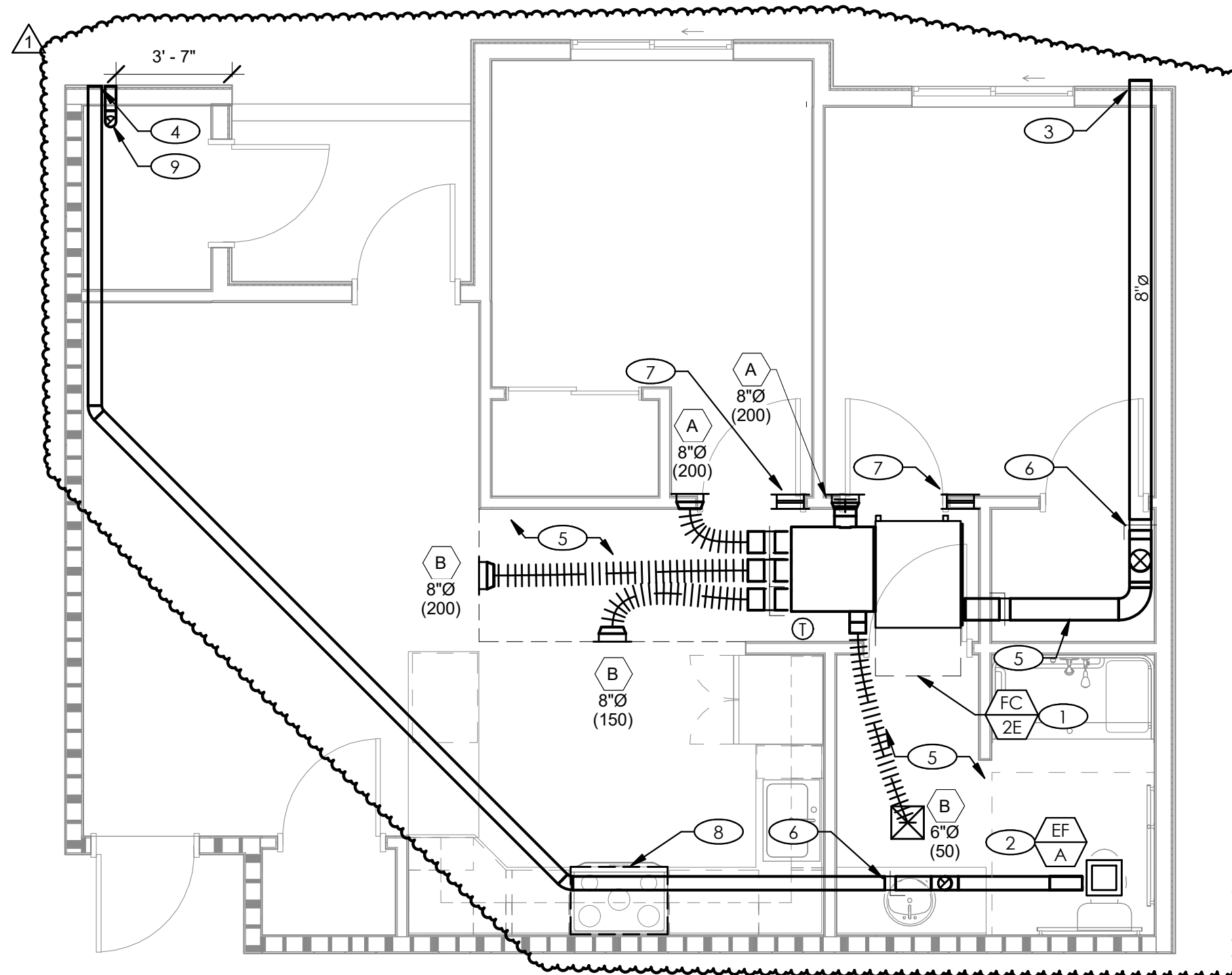
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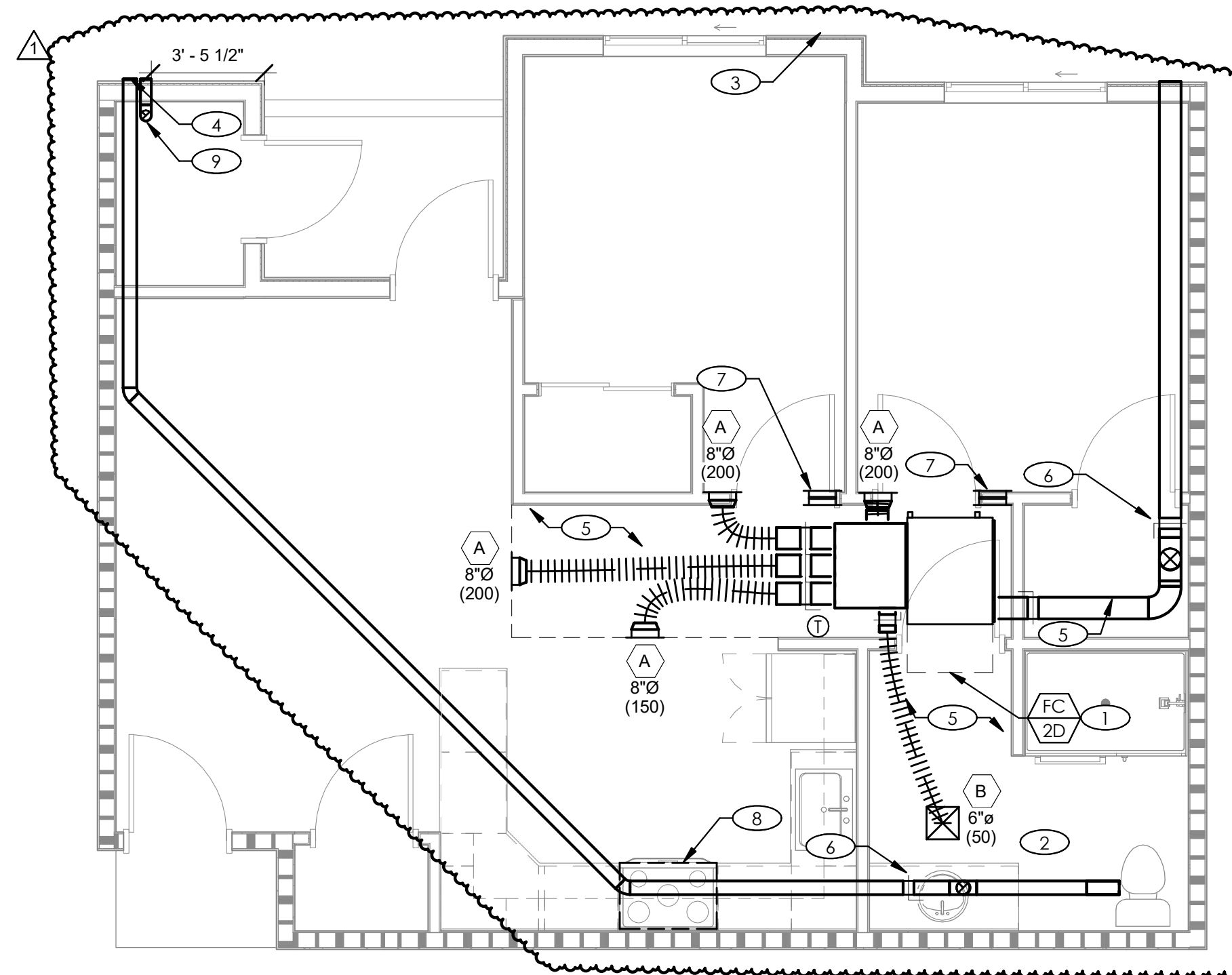
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**SHEET NOTES**

- 1 FAN COIL TO BE MOUNTED HORIZONTALLY IN THE SPACE ABOVE CEILING AND CENTERED ABOVE DOORWAY. PROVIDE A FILTERED RETURN GRILLE AT UNIT AND ACCESS PANEL IN CEILING TO FACILITATE ACCESS TO FAN COIL UNIT FOR INSTALLATION AND MAINTENANCE. COORDINATE LOCATION AND COLOR OF ACCESS PANEL WITH ARCHITECT. ROUTE REFRIGERANT LINES TO UNIT AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS. ROUTE 3/4" CONDENSATE DRAIN PIPING FROM FAN COIL UNIT TO NEAREST LAVATORY TAIL PIECE. SLOPE PIPING AT 1% MINIMUM.
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- 4 CAP EXHAUST DUCT WITH APPROVED EXHAUST LOUVER.
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- 7 PROVIDE TWO TRANSFER GRILLES THROUGH THE WALL. TITUS 300RL 12"x6" MODULE SIZE OR SIMILAR. LOCATE ABOVE DOOR.
- 8 DUCTLESS RANGE HOOD. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO COORDINATE EQUIPMENT WITH ARCHITECT BEFORE PURCHASE.
- 9 WATER HEATER DIRECT VENT/FLUE TO EXTERIOR. SIZE PER MANUFACTURER'S RECOMMENDATIONS, AND CAP WITH APPROVED DIRECT VENT CAP.

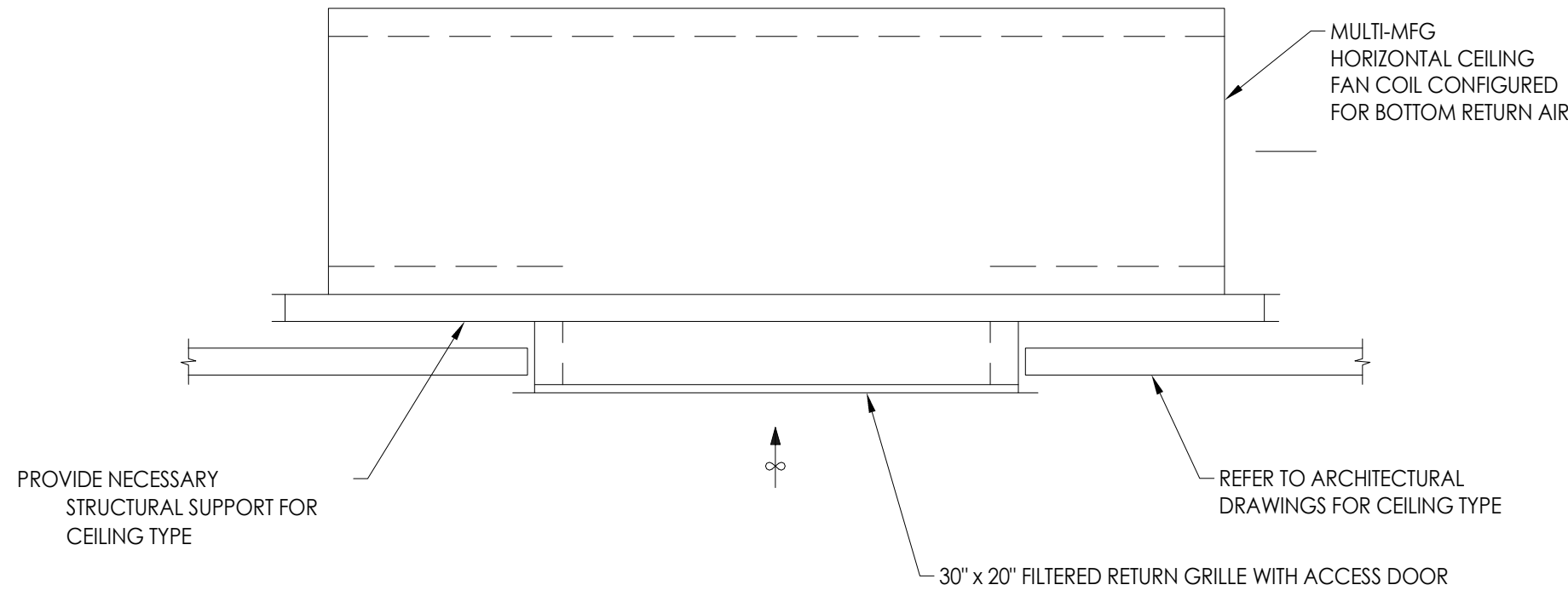


2 ENLARGED MECHANICAL PLAN - TYPE 2E  
SCALE: 1/4" = 1'-0"



1 ENLARGED MECHANICAL PLAN - 2D TYPE B  
SCALE: 1/4" = 1'-0"

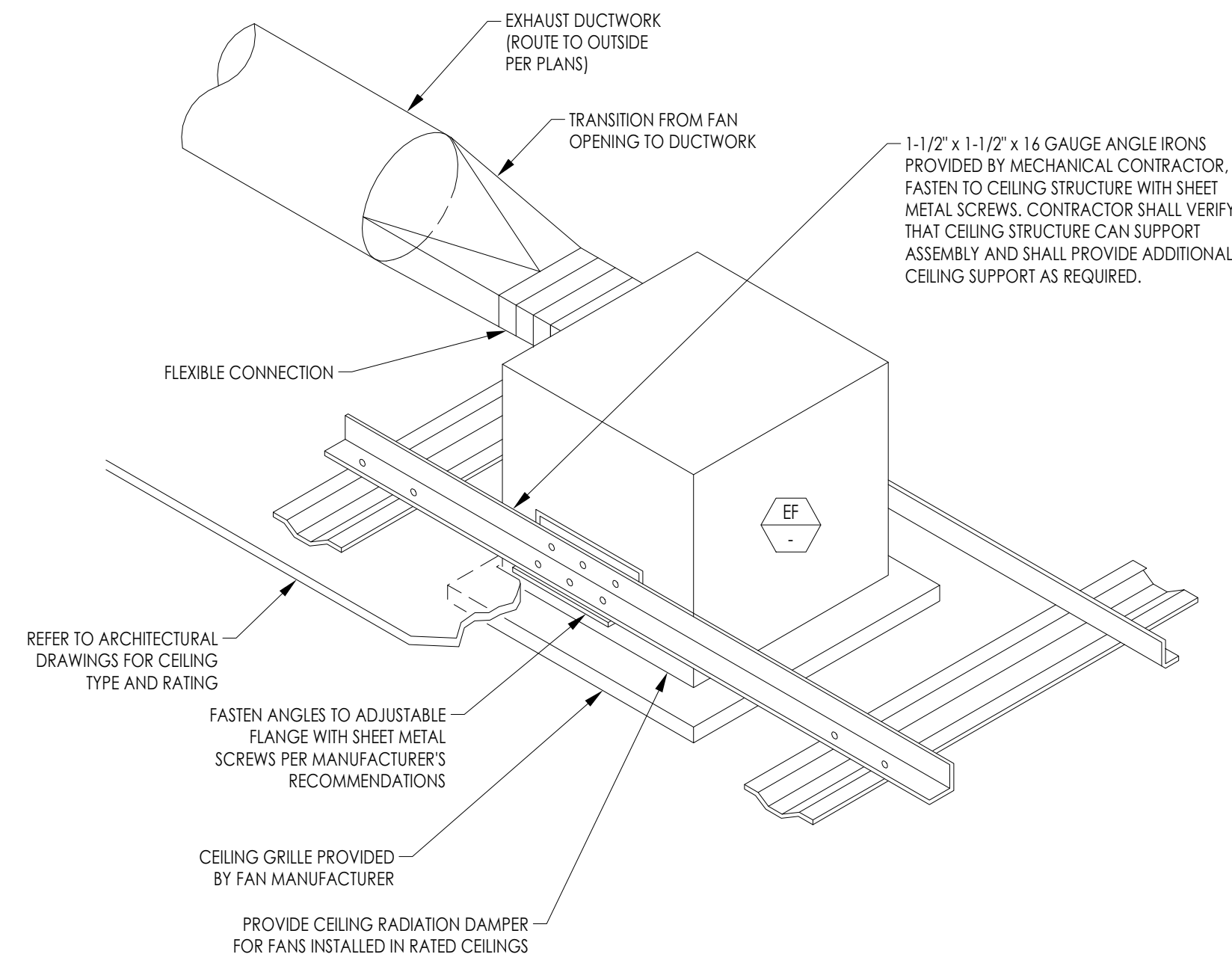
REMARKS  
 1. BOTTOM RETURN AIR CONFIGURATION WHERE CALLED OUT ON PLAN.



**E** FILTERED RETURN GRILLE AND ACCESS PANEL

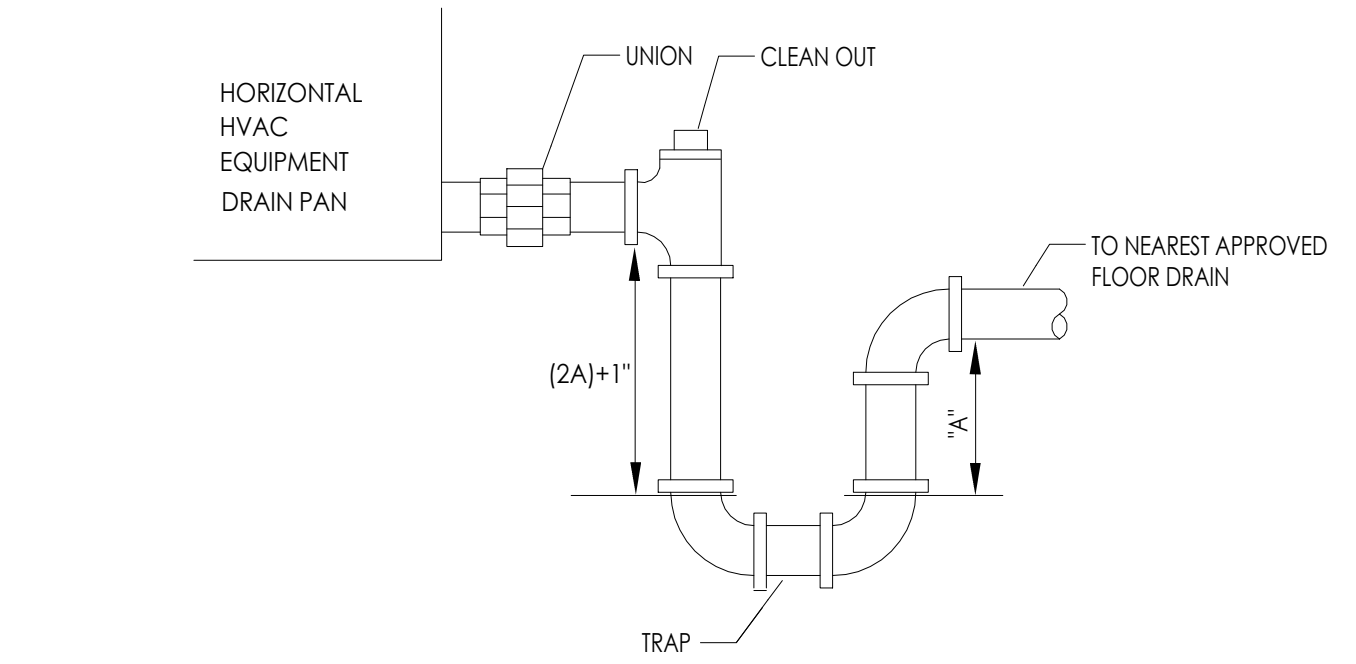
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REMARKS  
 1. REFER TO EXHAUST FAN SCHEDULE FOR WIRING REQUIREMENTS.



**C** CEILING MOUNTED EXHAUST FAN DIAGRAM

M5.00 NOT TO SCALE

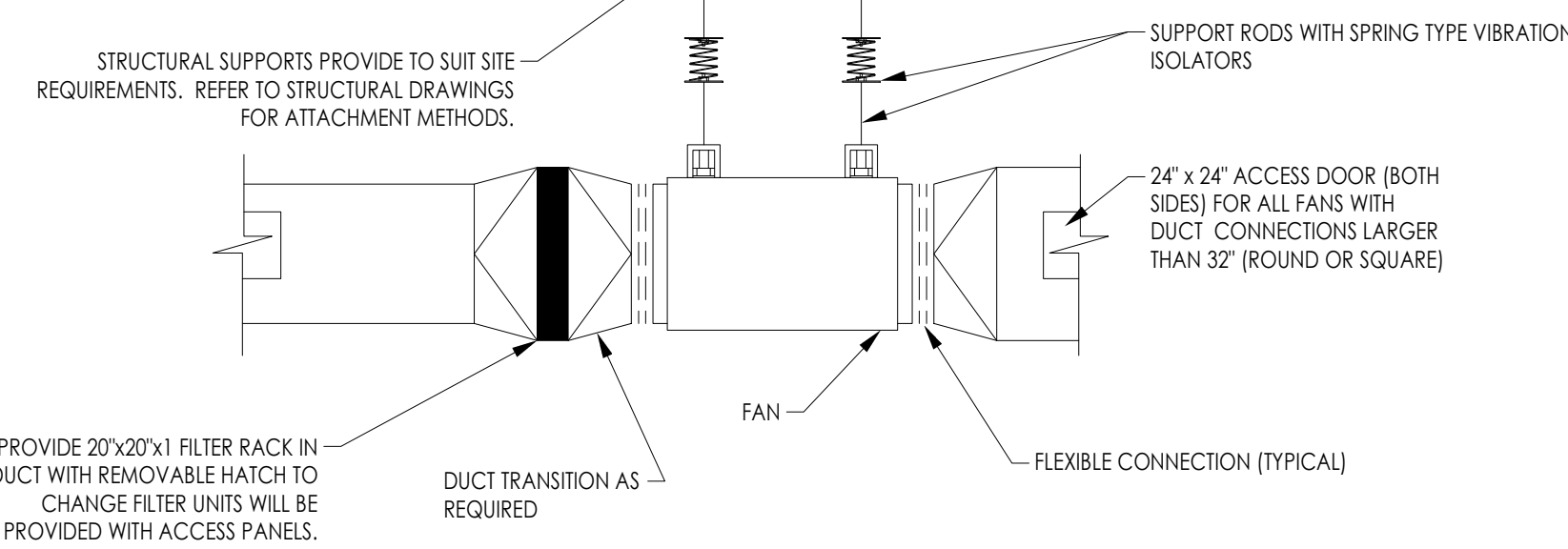


**NOTICE**

1. ALL PIPES FULL SIZE OF UNIT OUTLET.
2. A = UNIT TOTAL STATIC PRESSURE.
3. VERTICAL HEAT PUMPS DO NOT REQUIRE EXTERNAL CONDENSATE TRAP.

**A** CONDENSATE DRAIN PIPING DIAGRAM

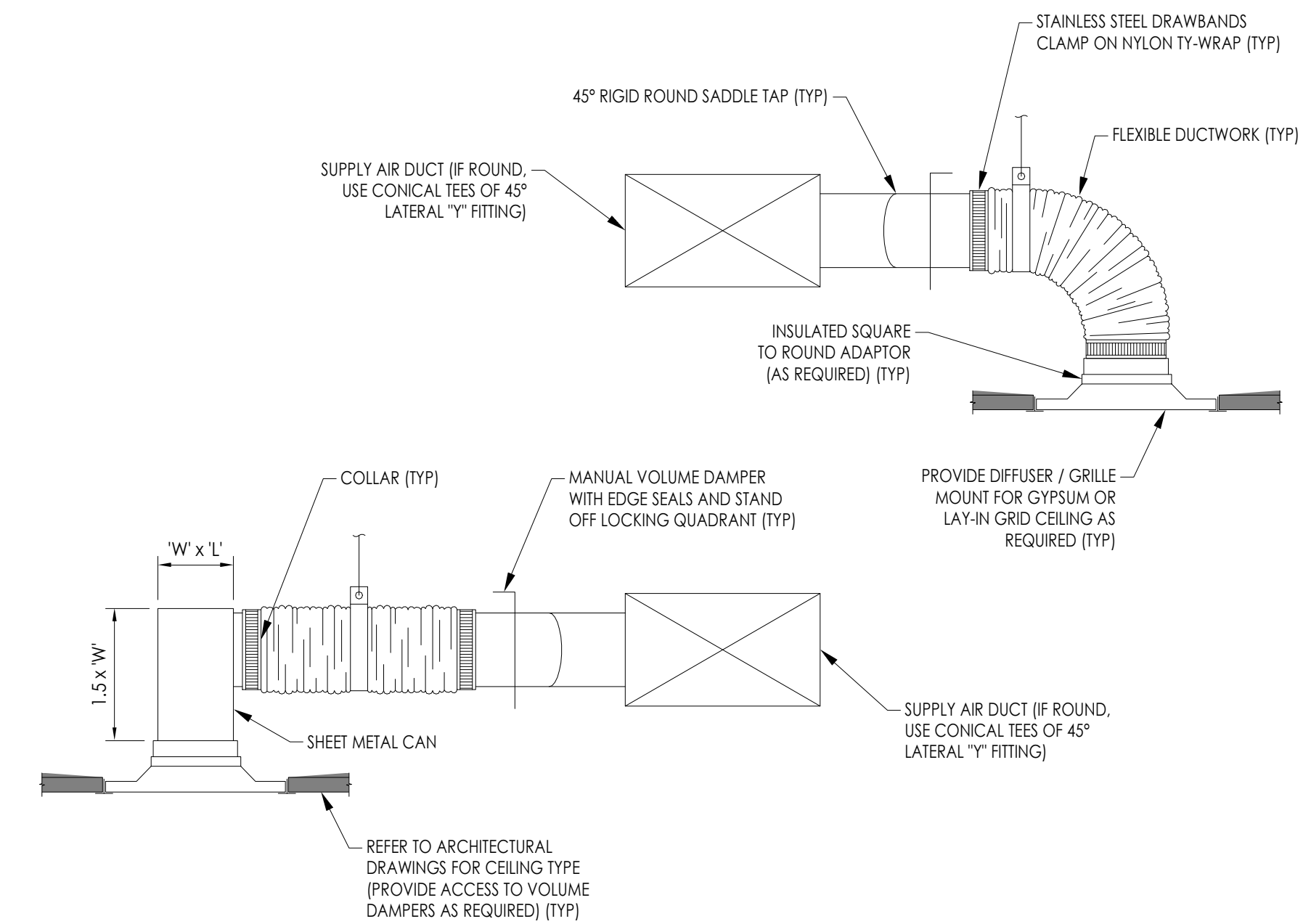
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**D** FAN COIL UNIT MOUNTING DIAGRAM

M5.00 NOT TO SCALE

REMARKS  
 1. FLEXIBLE DUCTWORK SHALL NOT HAVE SPLICES OR KINKS.  
 2. FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAXIMUM LENGTH.



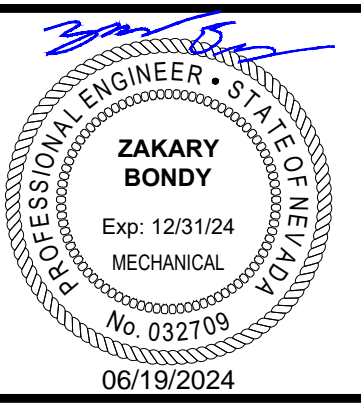
**B** DIFFUSER / GRILLE MOUNTING DIAGRAM

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**SNRHA BENNETT PLAZA PHASE II**  
 1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
**DIAGRAMS**

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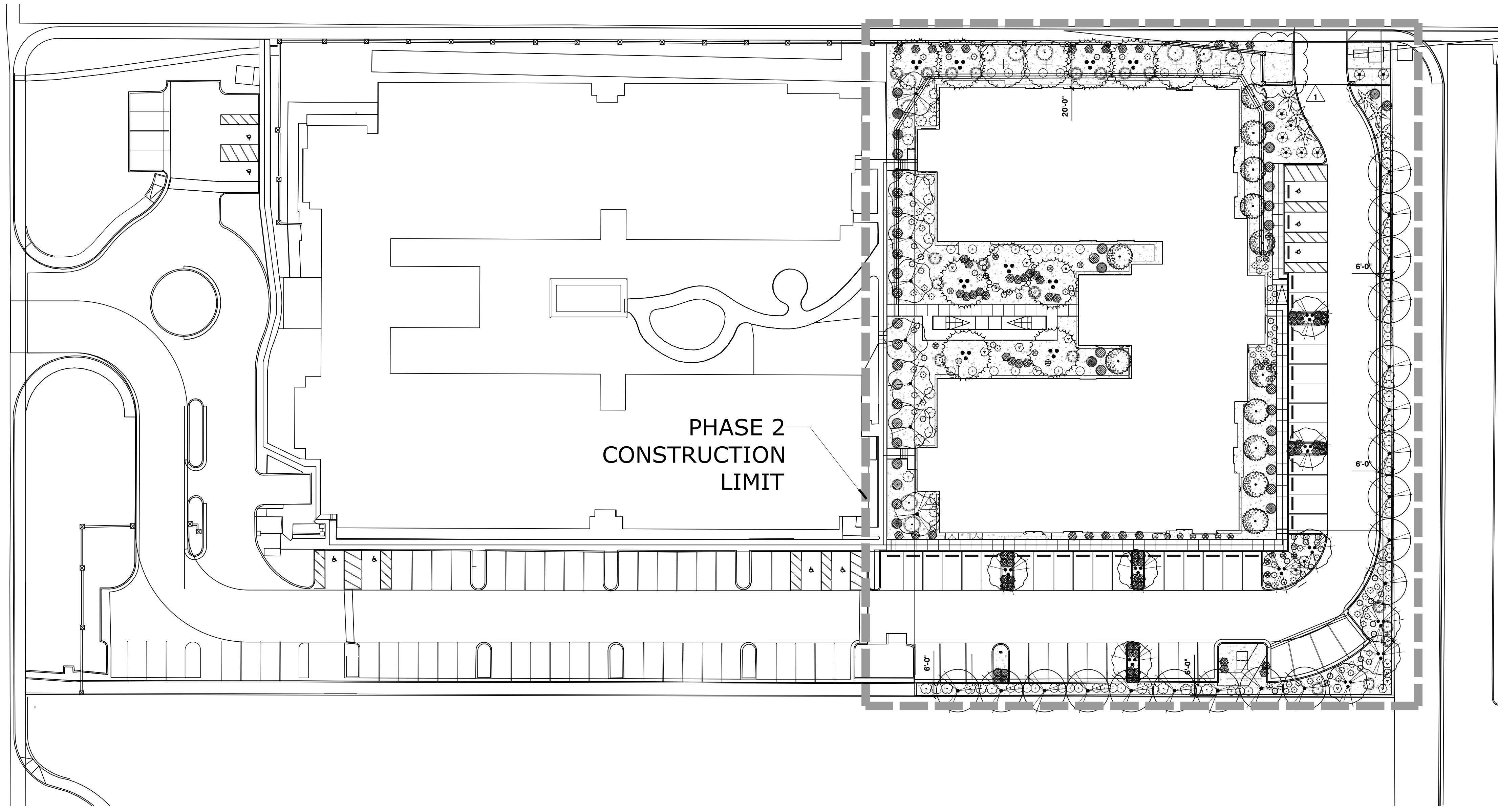
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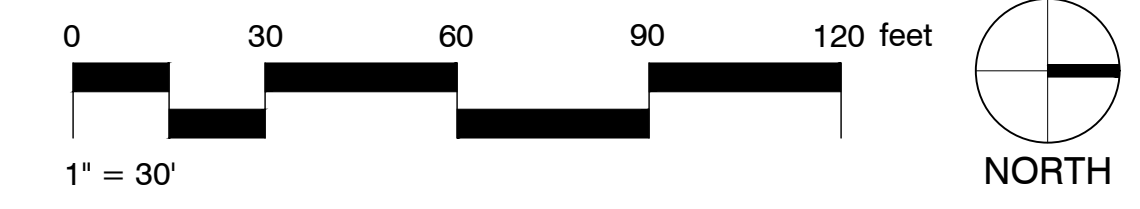
A



### PLANTING NOTES

- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL PLANT QUANTITIES. THE PLANT SCHEDULE IS INTENDED AS A REFERENCE ONLY.
- LANDSCAPE ARCHITECT IS TO APPROVE ALL PLANT MATERIAL PRIOR TO INSTALLATION WITH PRIOR NOTICE OF 48 HOURS.
- PLANT MATERIAL IS TO HAVE IDENTIFICATION TAGS ON 10% OF THE TOTAL QUANTITY OF EACH SPECIES, SHOWING GENUS, SPECIES, VARIETY, ETC.
- CONTRACTOR TO PROVIDE MATCHING SIZES AND FORMS OF LIKE SHRUB SPECIES AS SHOWN ON DRAWINGS.
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES, WALLS, AND ON ALL SIDEWALKS ACCORDING TO ALL CODES, REGULATIONS, AND REQUIREMENTS.
- DECOMPOSED GRANITE, 1/2" MINUS, COLOR: "BEATTY GOLD", 2" DEPTH TYPICAL IN ALL PLANTING BEDS. DECOMPOSED GRANITE SHALL CONTAIN 75% 1/2" SCREENED AND 25% 3/8" MINUS. CONTRACTOR TO RECEIVE VERIFICATION FROM ROCK SUPPLIER AND PRESENT VERIFICATION TO THE OWNER PRIOR TO ANY CONSTRUCTION.  
 WHOLESALE DEALER:  
 ROCK PROS USA  
 7324 S. ATWOOD SUITE 201  
 MESA, AZ 85212  
 TELEPHONE: (725) 272-4252  
 CONTACT: PETE BATTISTI
- CONTRACTOR TO INDICATE AREAS OF MISSING DECOMPOSED GRANITE IN PHASE 1 AND REPLACE WITH A MINIMUM 2" DEPTH AND COLOR TO MATCH EXISTING.
- CONTRACTOR TO INSTALL ROOT GUARD AT THE PERIMETER/EDGE OF PAVEMENT OF ALL PARKING ISLANDS AND ANY OTHER PLANTING AREAS NOTED ON THE PLANTING PLAN. CONTRACTOR TO INSTALL ROOT GUARD PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.  
 MODEL: UB 24-2  
 MANUFACTURER: DEEP ROOT PARTNERS, L.P.  
 345 LORTON AVENUE  
 BURLINGAME, CA 94010  
 TELEPHONE: (800) 458-7668
- CONTRACTOR TO COORDINATE AESTHETIC GRADING WITH ENGINEERING GRADING TO PROVIDE SITE DRAINAGE AS DESIGNED BY THE ENGINEER.
- ALL PALM HEIGHTS ARE BROWN TRUNK HEIGHTS. ALL PALMS SHALL HAVE STRAIGHT TRUNKS WITH NO CURVES. ALL DATE PALMS SHALL BE SHOVEL CUT. ALL FAN PALMS SHALL BE SKINNED WITHIN 3 FEET OF THE LAST FROND. ALL PALM TREE HEIGHTS TO BE MEASURED FROM TOP OF ROOT BALL TO THE LOWEST GREEN FROND.
- CONTRACTOR TO PROTECT AND PRESERVE EXISTING LANDSCAPE. ANY PLANT MATERIAL OR LANDSCAPE MATERIALS DAMAGED BY DEMOLITION OR CONSTRUCTION IS TO BE REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR IS TO REPLACE DAMAGED PLANT MATERIAL WITH MATERIAL OF THE SAME SIZE, GENUS, SPECIES, FORM, ETC.

PLANT SCHEDULE				SHRUBS		
SYMBOL	BOTANICAL / COMMON NAME	SIZE	QTY			
				AGAVE AMERICANA CENTURY PLANT	5 GAL	10
				GLANDULARIA GOODINGII GOODING'S VERBENA	5 GAL	40
				HESPERALOE PARVIFLORA RED YUCCA	5 GAL	102
				LEUCOPHYLLUM CANDIDUM 'THUNDER CLOUD' TM THUNDER CLOUD RANGER	5 GAL	65
				SENNA ARTEMISIOIDES FEATHERY CASSIA	5 GAL	42
				TECOMA X 'ORANGE JUBILEE' ORANGE JUBILEE TECOMA	5 GAL	12
				ACCENTS		
				DASYLIIRION LONGISSIMUM MEXICAN GRASS TREE	5 GAL	19
				MUHLENBERGIA LINDHEIMERI 'AUTUMN GLOW' TM AUTUMN GLOW	5 GAL	44
				GROUNDCOVERS		
				DALEA GREGGII PROSTRATE INDIGO BUSH	5 GAL	10
				LANTANA MONTEVIDENSIS TRAILING LANTANA	5 GAL	88



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 5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
 OVERALL - LANDSCAPE SITE PLAN

REVISIONS		
No.	Description	Date
1	CLV COM.	6/14/24

DRAWN BY: JWZ  
 DATE:  
 JOB NO: 2023-014  
 SCALE: AS INDICATED  
 (DO NOT SCALE DRAWINGS)

SHEET  
**L1.01**



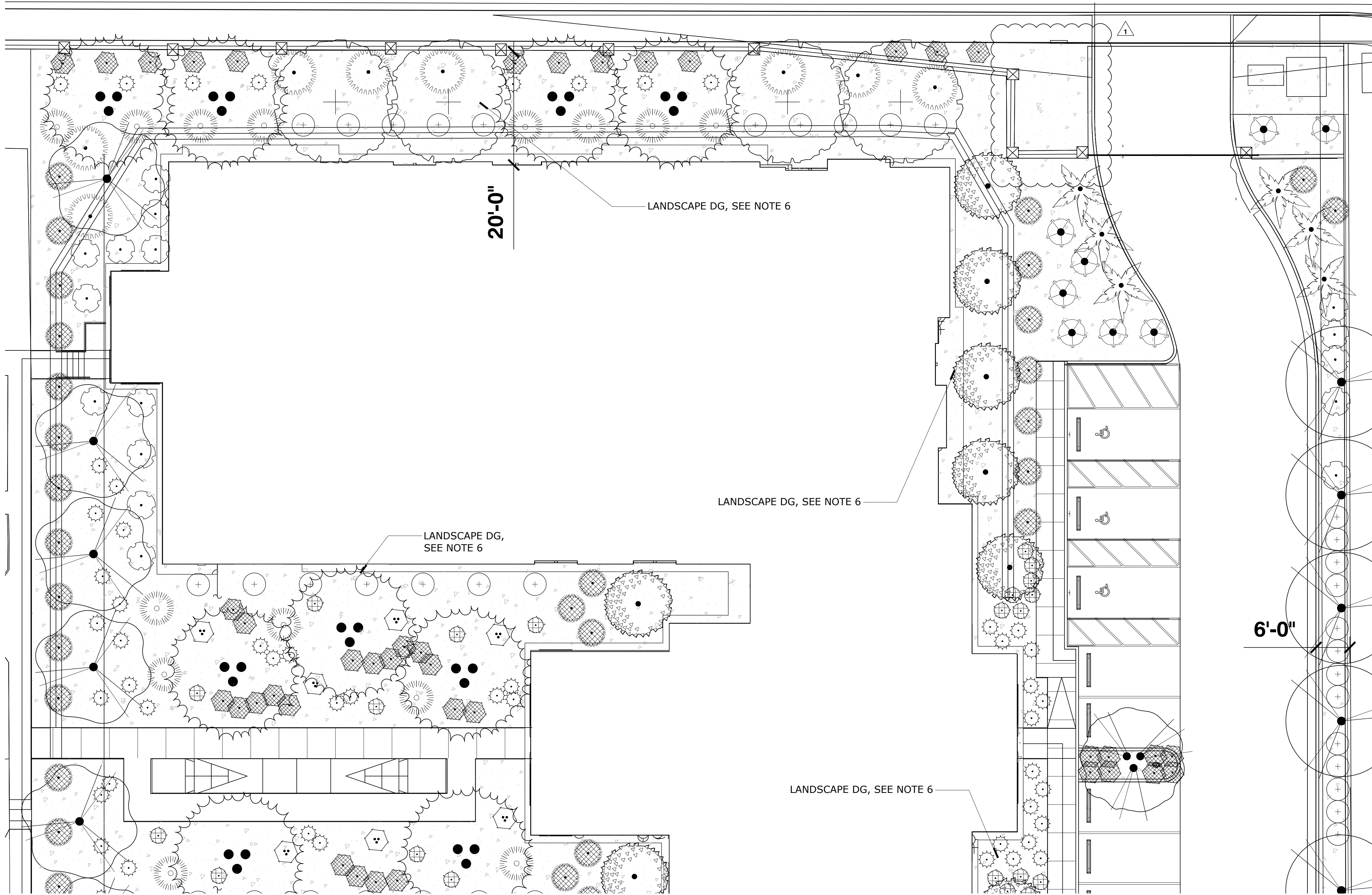
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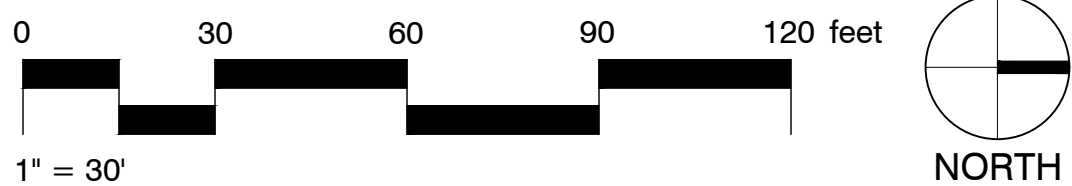


PLANTING NOTES

- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL PLANT QUANTITIES. THE PLANT SCHEDULE IS INTENDED AS A REFERENCE ONLY.
- LANDSCAPE ARCHITECT IS TO APPROVE ALL PLANT MATERIAL PRIOR TO INSTALLATION WITH PRIOR NOTICE OF 48 HOURS.
- PLANT MATERIAL IS TO HAVE IDENTIFICATION TAGS ON 10% OF THE TOTAL QUANTITY OF EACH SPECIES, SHOWING GENUS, SPECIES, VARIETY, ETC.
- CONTRACTOR TO PROVIDE MATCHING SIZES AND FORMS OF LIKE SHRUB SPECIES AS SHOWN ON DRAWINGS.
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES, WALLS, AND ON ALL SIDEWALKS ACCORDING TO ALL CODES, REGULATIONS, AND REQUIREMENTS.
- DECOMPOSED GRANITE, 1/2" MINUS, COLOR: "BEATTY GOLD", 2" DEPTH TYPICAL IN ALL PLANTING BEDS. DECOMPOSED GRANITE SHALL CONTAIN 75% 1/2" SCREENED AND 25% 3/8" MINUS. CONTRACTOR TO RECEIVE VERIFICATION FROM ROCK SUPPLIER AND PRESENT VERIFICATION TO THE OWNER PRIOR TO ANY CONSTRUCTION.  
 WHOLESALE DEALER:  
 ROCK PROS USA  
 7324 S. ATWOOD SUITE 201  
 MESA, AZ 85212  
 TELEPHONE: (725) 272-4252  
 CONTACT: PETE BATTISTI
- CONTRACTOR TO INDICATE AREAS OF MISSING DECOMPOSED GRANITE IN PHASE 1 AND REPLACE WITH A MINIMUM 2" DEPTH AND COLOR TO MATCH EXISTING.
- CONTRACTOR TO INSTALL ROOT GUARD AT THE PERIMETER/EDGE OF PAVEMENT OF ALL PARKING ISLANDS AND ANY OTHER PLANTING AREAS NOTED ON THE PLANTING PLAN. CONTRACTOR TO INSTALL ROOT GUARD PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.  
 MODEL: UB 24-2  
 MANUFACTURER: DEEP ROOT PARTNERS, L.P.  
 345 LORTON AVENUE  
 BURLINGAME, CA 94010  
 TELEPHONE: (800) 458-7668
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PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	SIZE	QTY	SYMBOL	BOTANICAL / COMMON NAME	SIZE	QTY
(Symbol)	PODOCARPUS MACROPHYLLUS YEW PODOCARPUS	24"BOX	12	(Symbol)	LEUCOPHYLLUM CANDIDUM 'THUNDER CLOUD' TM THUNDER CLOUD RANGER	5 GAL	65
(Symbol)	ACACIA STENOPHYLLA SHOESTRING ACACIA	24"BOX	19	(Symbol)	SENNA ARTEMISIOIDES FEATHERY CASSIA	5 GAL	42
(Symbol)	CHILLOPSIS LINEARIS DESERT WILLOW	24"BOX	10	(Symbol)	TECOMA X 'ORANGE JUBILEE' ORANGE JUBILEE TECOMA	5 GAL	12
(Symbol)	PARKINSONIA X 'DESERT MUSEUM' DESERT MUSEUM PALO VERDE	36" BOX	9	(Symbol)	MEXICAN GRASS TREE	5 GAL	19
(Symbol)	PISTACIA CHINENSIS CHINESE PISTACHE	24"BOX	4	(Symbol)	MUHLBERGIA LINDHEIMERI 'AUTUMN GLOW' TM AUTUMN GLOW	5 GAL	44
(Symbol)	AGAVE AMERICANA CENTURY PLANT	5 GAL	10	(Symbol)	DALEA GREGGII PROSTRATE INDIGO BUSH	5 GAL	10
(Symbol)	GLANDULARIA GOODDINGII GOODDING'S VERBENA	5 GAL	40	(Symbol)	LANTANA MONTEVIDENSIS TRAILING LANTANA	5 GAL	88
(Symbol)	HESPERALOE PARVIFLORA RED YUCCA	5 GAL	102				



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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
 1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
**LANDSCAPE SITE PLAN - PHASE 2**

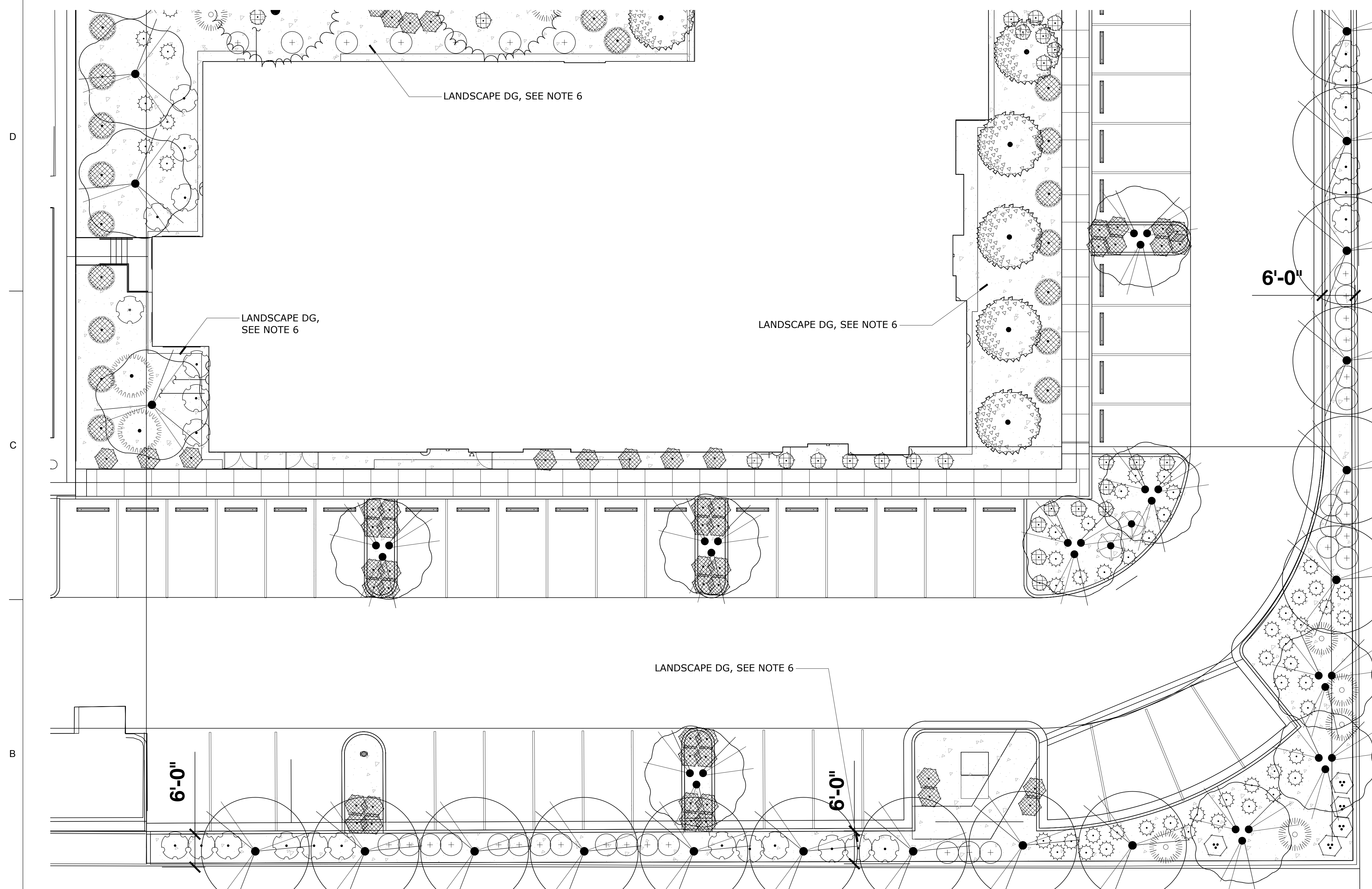
No.	Description	Date
1	CLV COM.	6/14/24

DRAWN BY: JWZ  
 DATE:  
 JOB NO: 2023-014  
 SCALE: AS INDICATED  
 (PRINT SCALE DRAWING)

SHEET  
**L1.02**



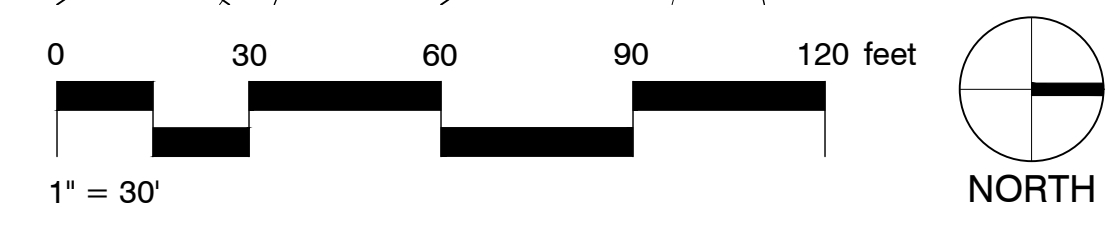




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	PODOCARPUS MACROPHYLLUS YEW PODOCARPUS	24"BOX	12		LEUCOPHYLLUM CANDIDUM 'THUNDER CLOUD' TM THUNDER CLOUD RANGER	5 GAL	65
	RHUS LANCEOLATA PRAIRIE FLAMELEAF SUMAC	24"BOX	8		SENNA ARTEMISIOIDES FEATHERY CASSIA	5 GAL	42
	WASHINGTONIA ROBUSTA MEXICAN FAN PALM	15' HT.	6		TECOMA X 'ORANGE JUBILEE' ORANGE JUBILEE TECOMA	5 GAL	12
	AGAVE AMERICANA CENTURY PLANT	5 GAL	10		ACCENTS		
	GLANDULARIA GOODDINGII GOODDING'S VERBENA	5 GAL	40		DASYLIRION LONGISSIMUM MEXICAN GRASS TREE	5 GAL	19
	HESPERALOE PARVIFLORA RED YUCCA	5 GAL	102		MUHLENBERGIA LINDHEIMERI 'AUTUMN GLOW' TM AUTUMN GLOW	5 GAL	44
					GROUNDCOVERS		
					DALEA GREGGII PROSTRATE INDIGO BUSH	5 GAL	10
					LANTANA MONTEVIDENSIS TRAILING LANTANA	5 GAL	88
	ACACIA STENOPHYLLA SHOESTRING ACACIA	24"BOX	19				
	CHILLOPSIS LINEARIS DESERT WILLOW	24"BOX	10				
	PARKINSONIA X 'DESERT MUSEUM' DESERT MUSEUM PALO VERDE	36" BOX	9				
	PISTACIA CHINENSIS CHINESE PISTACHE	24"BOX	4				



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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
 LANDSCAPE SITE PLAN - PHASE 2

REVISIONS		
No.	Description	Date
1	CLV COM.	6/14/24

DRAWN BY: JWZ  
 DATE:  
 JOB NO: 2023-014  
 SCALE: AS INDICATED  
 CONTACT: 702-253-9390



**SHEET**  
 L1.03

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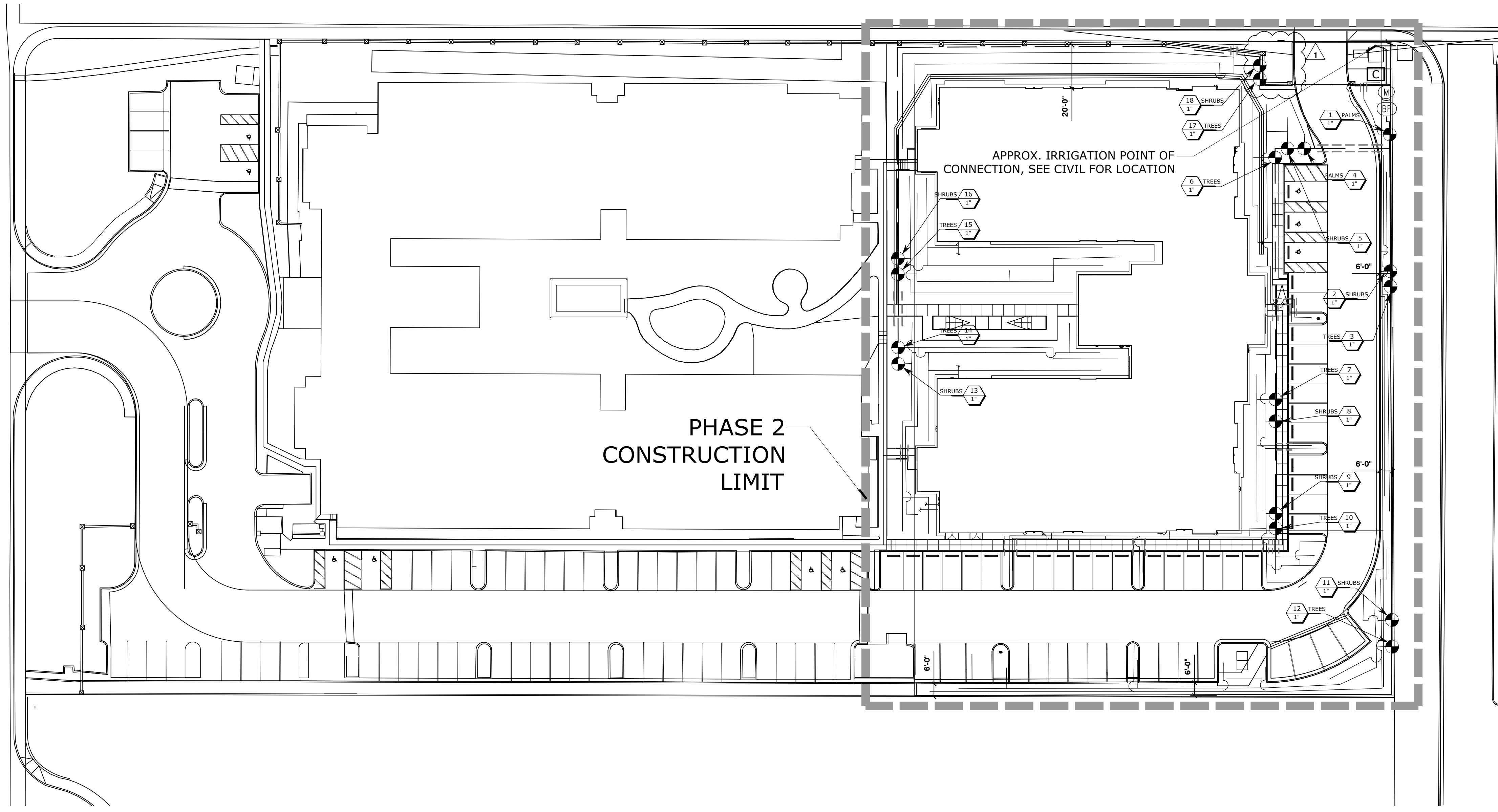
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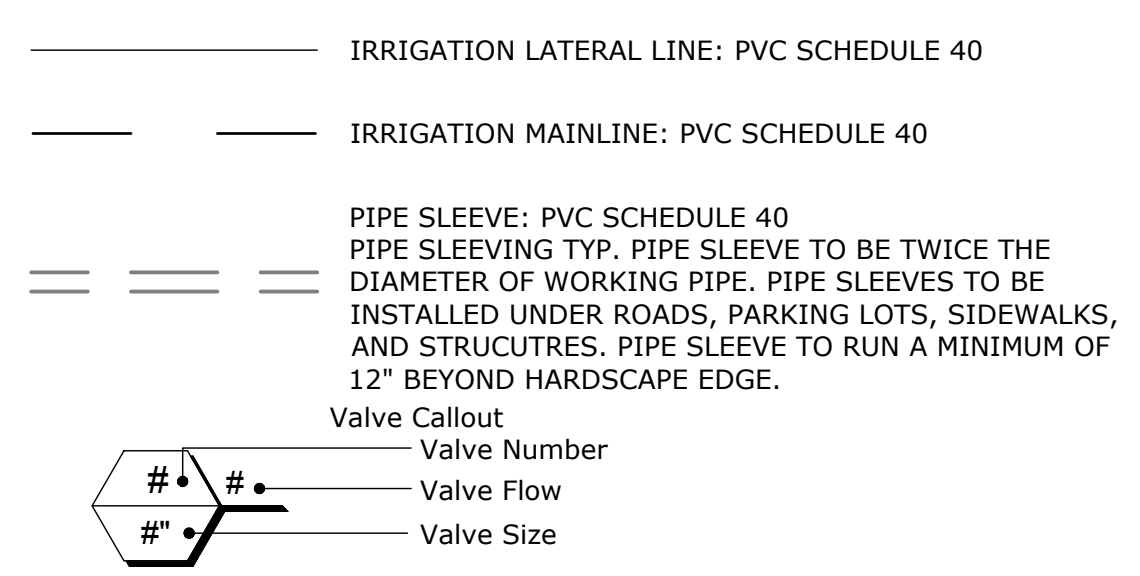


**IRRIGATION NOTES**

- CONTRACTOR TO VERIFY THE STATIC PRESSURE AT THE POINT OF CONNECTION AND MAKE FINAL CONNECTIONS ALLOWING FOR ANY POSSIBLE DEVIATIONS FROM LOCATION SHOWN ON PLANS DUE TO SITE CONDITIONS. ANY DEVIATIONS FROM THE DESIGN TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- THE IRRIGATION PLAN IS DRAWN FOR GRAPHIC CLARITY, WHERE PIPING AND VALVES ARE SHOWN IN CONCRETE AREAS, THE INTENT IS FOR THE PIPING AND VALVES TO BE PLACED IN THE ADJACENT PLANTING AREAS, EXCEPT WHERE SLEEVES ARE REQUIRED. PLACE ALL VALVE BOXES IN PLANTING BEDS.
- ALL PIPES AND WIRES RUNNING UNDER CONCRETE, ASPHALT, PEDESTRIAN PATHS, DRY RIVERBEDS, WATER FEATURES OR SIMILAR STRUCTURES TO BE SLEEVED. SLEEVES TO BE TWICE THE DIAMETER OF THE WORKING PIPE AND SCHEDULE 40 PVC. IRRIGATION PIPE AND WIRE TO BE IN SEPARATE SLEEVES. PIPE SLEEVE TO RUN A MINIMUM OF 12" BEYOND EDGE OF STRUCTURE. PLACE ONE (1) ADDITIONAL SLEEVE OF SAME SIZE, LENGTH, AND SCHEDULE ALONGSIDE MAINLINE SLEEVE.
- INSTALL WIRE SLEEVING BASED ON THE SIZING GUIDELINE BELOW:
  - 1-25 CONTROL WIRES.....1-2" SCH 40 PVC SLEEVE
  - 26-50 CONTROL WIRES.....2-2" SCH 40 PVC SLEEVE
- VALVE BOXES TO BE PERMANENTLY BRANDED WITH CONTROLLER LETTER & STATION (EXAMPLES: STATION = A3; QUICK COUPLER = QC). LETTER AND STATION IDENTIFICATION TO BE 2 INCH HEIGHT MIN., VALVE BOXES TO HAVE LOCKING CAPABILITY. CONCRETE VALVE BOXES TO BE TAN IN COLOR, AND LOCATED IN PLANTING BEDS ONLY.
- CONTRACTOR IS RESPONSIBLE TO VERIFY UTILITY LOCATION, OBTAIN, COORDINATE AND PAY FOR ANY PERMITS AND ALL INSPECTIONS AS REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR POWER CONNECTION TO VALVES FOR COMMUNICATION
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM FROM ALL STRUCTURES, WALLS, AND ON ALL SIDEWALKS ACCORDING TO ALL CODES, REGULATIONS, AND REQUIREMENTS.

**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	GPH IRRIGATION GPST-D 0.5 GPH THREADED PRESSURE COMPENSATING DRIP EMITTER WITH 1/2IN. FIPT INLET AND DIFFUSER CAP OUTLET AND DESERT CAMO COLOR. BROWN = 0.5 GPH; BLACK = 1.0 GPH; GREEN = 2.0 GPH; EACH TREE TO RECEIVE (8) 2.0 GPM EMITTERS; EACH SHRUB TO RECEIVE (2) 1.0 GPH EMITTERS.
	RAIN BIRD PGA-PRS-D GLOBE 1IN., 1-1/2IN., 2IN. ELECTRIC REMOTE CONTROL VALVE, GLOBE. WITH PRESSURE REGULATOR MODULE.
	RAIN BIRD IVM-PGA GLOBE 1" 1IN., 1-1/2IN., 2IN. ELECTRIC REMOTE CONTROL SMART VALVE, GLOBE. W/ FACTORY INSTALLED IVM-SOL
	FEBCO 825Y 1" REDUCED PRESSURE BACKFLOW PREVENTER
	RAIN BIRD ESP-LXD-LXMMSS-LXMMSSPED 50 STATION, 2-WIRE DECODER BASED CONTROLLER IN STAINLESS STEEL, CABINET W/ PEDESTAL. (1) ESP-LXD 50-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALL IN RAIN BIRD LXMMSS-LXMMSSPED STAINLESS STEEL CABINET W/ PEDESTAL. SYSTEM REQUIREMENTS: RAIN BIRD FD-XXX-TURF FIELD DECODERS, PAIGE ELECTRIC CABLE P7072D & RAIN BIRD WC20 DRY SPLICES ONLY. GROUND SYSTEM W/ (X) LSP-1TURF SURGE PROTECTION DECODERS IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
	RAIN BIRD IQ-CM-LXD CONNECTION MODULE PROVIDES IQNET HIGH-SPEED DATA CABLE CONNECTIONS FOR ESP-LXD/ESP-LXIVM CONTROLLER. INSTALLS IN ESP-LXD/ESP-LXIVM ZERO MODULE SLOT.



5195 S. Durango Drive  
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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
**OVERALL - LANDSCAPE SITE PLAN**

REVISIONS		
No.	Description	Date
1	CLV COM.	6/14/24

DRAWN BY: JWZ  
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JOB NO: 2023-014  
SCALE: AS INDICATED  
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SHEET  
**L2.01**

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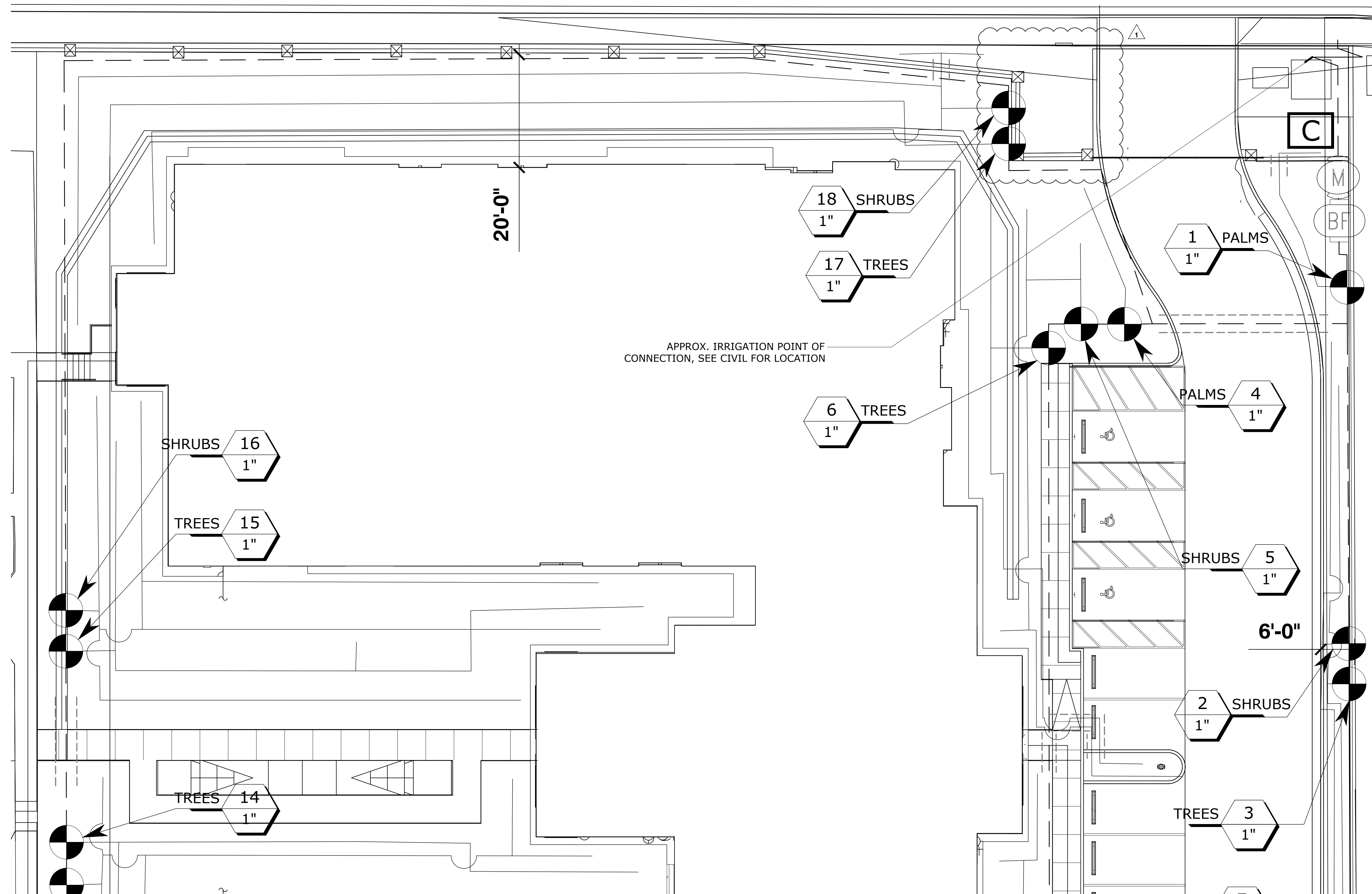
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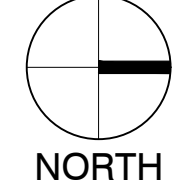
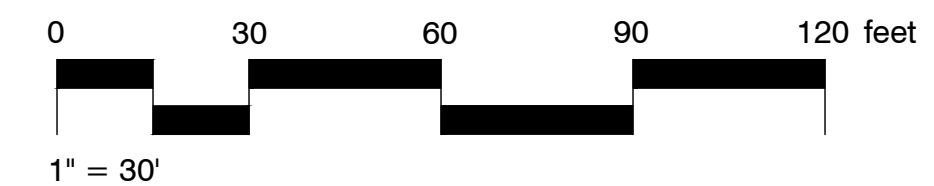
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APPROX. IRRIGATION POINT OF CONNECTION, SEE CIVIL FOR LOCATION

20'-0"

6'-0"



**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	GPH IRRIGATION GPST-D 0.5 GPH THREADED PRESSURE COMPENSATING DRIP EMITTER WITH 1/2IN. FIPT INLET AND DIFFUSER CAP OUTLET AND DESERT CAMO COLOR. BROWN = 0.5 GPH; BLACK = 1.0 GPH; GREEN = 2.0 GPH; EACH TREE TO RECEIVE (8) 2.0 GPM EMITTERS; EACH SHRUB TO RECEIVE (2) 1.0 GPH EMITTERS.
	RAIN BIRD PGA-PRS-D GLOBE 11IN., 1-1/2IN., 2IN. ELECTRIC REMOTE CONTROL VALVE, GLOBE. WITH PRESSURE REGULATOR MODULE.
	RAIN BIRD IVM-PGA GLOBE 1\"/>

RAIN BIRD ESP-LXD-LXMMSS-LXMMSSPED 50 STATION, 2-WIRE DECODER BASED CONTROLLER IN STAINLESS STEEL, CABINET W/ PEDESTAL. (1) ESP-LXD 50-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. INSTALL IN RAIN BIRD LXMMSS-LXMMSSPED STAINLESS STEEL CABINET W/ PEDESTAL. SYSTEM REQUIREMENTS: RAIN BIRD FD-XXX-TURF FIELD DECODERS, PAIGE ELECTRIC CABLE P7072D & RAIN BIRD WC20 DRY SPLICES ONLY. GROUND SYSTEM W/ (X) LSP-1TURF SURGE PROTECTION DECODERS IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

RAIN BIRD IQ-CM-LXD CONNECTION MODULE PROVIDES IQNET HIGH-SPEED DATA CABLE CONNECTIONS FOR ESP-LXD/ESP-LXIVM CONTROLLER. INSTALLS IN ESP-LXD/ESP-LXIVM ZERO MODULE SLOT.

IRRIGATION LATERAL LINE: PVC SCHEDULE 40

IRRIGATION MAINLINE: PVC SCHEDULE 40

PIPE SLEEVE: PVC SCHEDULE 40  
PIPE SLEEVING TYP. PIPE SLEEVE TO BE TWICE THE DIAMETER OF WORKING PIPE. PIPE SLEEVES TO BE INSTALLED UNDER ROADS, PARKING LOTS, SIDEWALKS, AND STRUCTURES. PIPE SLEEVE TO RUN A MINIMUM OF 12\"/>

Valve Callout  
Valve Number  
Valve Flow  
Valve Size

**IRRIGATION NOTES**

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DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CONTACT: 702.253.9390

**JWZUNINO**

8540 S. EASTERN AVE. STE. 220  
LAS VEGAS, NV 89123  
702.253.9390 JWZUNINO.COM

SHEET  
**L2.02**



**MARION D. BENNETT PHASE 2 AFFORDABLE HOUSING  
Fire Protection Report**

code consulting | fire protection engineering  
construction management | fire protection system and testing

**Prepared for:**

kme Architects

**Prepared by:**

TERPconsulting  
1604 S. Maryland Parkway  
Las Vegas, NV 89104

TC #23.0198

21 May 2024

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## **INTRODUCTION**

The construction of a new three-story, low-rise residential-use building is proposed at the northeast corner of Comstock Drive and Balzar Avenue. The building will have an approximately 24,343 ft<sup>2</sup> footprint with the highest occupiable floor level 21'10" above the lowest level of fire department vehicle access and an overall building height at the high roof of 50'-6" above grade plane.

Levels 1 will include apartment units, community spaces, storage, and equipment rooms.

Levels 2 and 3 will include apartment units and community spaces.

The project will be classified as Risk Category II in accordance with 2021 International Building Code with City of Las Vegas & City of Henderson (IBC) Table 1604.5.

The purpose of this report is to document the work associated with this project. All work will be performed in accordance with the 2021 International Building Code (IBC) and the 2021 (IFC) International Fire Code with City of Las Vegas & City of Henderson amendments.

## **KEY ISSUES**

### **FIRE DEPARTMENT ACCESS**

Site and building fire department access will be provided in accordance with IFC Section 503. Areas of the proposed building are within 150' from fire apparatus access lanes per IFC Section 503.1, including the use of Comstock Dr. (public street).

Fire apparatus access roads will be a minimum of 24' wide in accordance with IFC Section 503.2.1 with a minimum vertical clearance of 13'6". As required by IFC Section 503.2.4, the required turning radius of a fire apparatus access road will be no less than 28' inside turning radius and 52' outside turning radius, and the maximum dead-end length will be limited to 150' per IFC Section 503.2.5.

New fire hydrant(s) will be installed as necessary to meet IFC Appendix C location and distribution requirements.

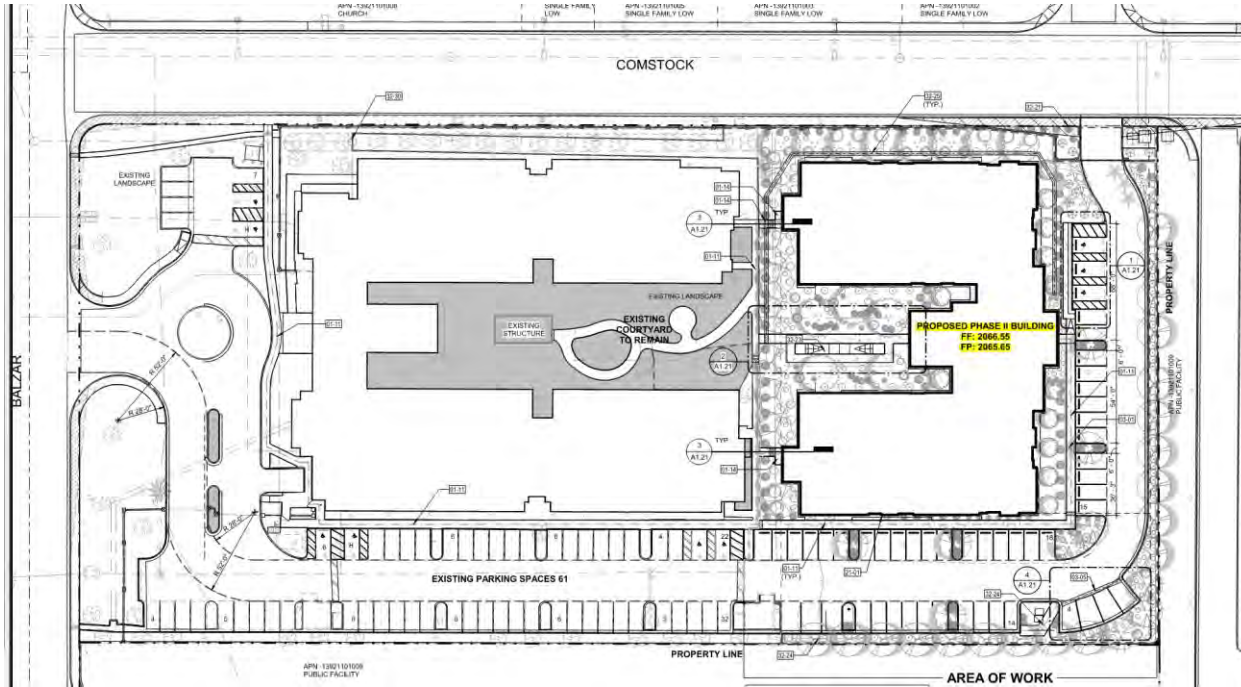


Figure 1: Architectural Site Plan

## FIRE PUMP

The project will require the installation of a fire pump in compliance with NFPA 20 to boost water pressure to support automatic sprinkler systems.

## APPLICABLE CODES

The applicable codes for this project include the following:

- 2021 International Building Code (IBC) with City of Las Vegas & City of Henderson amendments
- 2021 International Fire Code (IFC) with City of Las Vegas & City of Henderson amendments
- 2017 National Electrical Code (NEC) with City of Henderson amendments
- ICC/ANSI A117.1 (2009 edition)
- NFPA 10 – *Standard for Portable Fire Extinguishers* (2022 edition)
- NFPA 13 – *Standard for Installation of Sprinkler Systems* (2022 edition)
- NFPA 20 – *Installation of Stationary Fire Pumps for Fire Protection* (2019 edition)
- NFPA 24 – *Standard for the Installation of Private Fire Service Mains and Their Appurtenances* (2019 edition)
- NFPA 72 – *National Fire Alarm and Signaling Code* (2019 edition).

## PASSIVE FIRE-RESISTANCE ASPECTS

The proposed three (2) story building will be of Type VA construction.

Building structural elements will be fire-resistance rated in accordance with IBC Table 601 as follows:

Building Element	Fire-Resistance Rating [hr]
	VA
Primary structural frame	1
Bearing walls	
Nonbearing walls	0
Floor construction and secondary members	1
Roof construction and secondary members	1

The building will not exceed the area, height, or story limitations of the IBC. Group B, R-2, and S-2 buildings of Type VA construction are permitted to have a maximum area greater than proposed, per IBC Tables 506.2, 504.3, and 504.4.

Exterior walls will be provided with a fire-resistance rating in accordance with IBC Table 602 as necessary based upon fire separation distances to the closest interior lot line, centerline of a street, alley or public way, or to an imaginary line between two (2) buildings on the same lot. The exterior walls along the south side of the building will have a minimum 1-hour fire-resistance rating as required by IBC Table 602. Openings within exterior walls will be protected in accordance with IBC Table 705.8.



The nonseparated and accessory use provisions of IBC Section 508.3 will be utilized.

New walls and ceilings may include combustible materials as permitted for Type VA construction.

Residential units will be separated from each other and other spaces contiguous to them by 1-hour fire-resistance rated fire partitions and horizontal assemblies in accordance with IBC Sections 708.3 and 711.2.4.3 as referenced by IBC Sections 420.2 and 420.3, respectively.

Apartment corridors require a minimum ½-hour fire-resistance rating per IBC Table 1020.2; actual construction will be of 1-hour wall assemblies. Openings in fire-resistance rated corridors will be minimum 20-minute fire-protection rated smoke and draft control assemblies per IBC Table 716.1(2).

Shaft enclosures connecting three (3) or fewer stories will be a minimum of 1-hour fire-resistance rated in accordance with IBC Section 713.4.

The building will be provided with two (2) interior exit stairways that will discharge at grade to exterior in accordance with IBC Sections 1023.3. The stairways will be constructed in accordance with IBC Sections 1011 and 1023 and will be enclosed with minimum 1-hour fire-resistance rated construction with 45-minute opening protectives in accordance with IBC Sections 510.2(3), 1023.2, and 1023.4. A minimum of one (1) stair will extend to the roof as required by IBC Section 1011.12; the roof may be accessed via a hatch and alternating tread device per exceptions.

One (1) exit access stairway will be provided in accordance with IBC Section 1019.3 Exception 4. A draft stop and closely spaced sprinklers in accordance with NFPA 13 Section 9.3.5.1 will be provided.

One (1) elevator hoistway enclosure will be provided to serve all levels of the building. Elevator hoistway enclosures and machine rooms will be enclosed with minimum 1-hour fire-resistance rated construction with 45-minute opening protectives in accordance with IBC Section 713.4. The elevator is not required to be accessible per IBC Sections 1009.2.1 and 1009.4 as it only serves two stories above the level of exit discharge.

Elevator hoistway protection is required in accordance with IBC Section 3006.2.1 and will be provided in accordance with IBC Section 3006.3.

The fire riser/pump room will be separated from adjacent building areas by 1-hour fire-resistance rated fire barriers per Exception 1 to IBC Section 913.2.1; the door will be along an exterior wall and not require a fire rating.

Feeder-circuit wiring will be installed either in dedicated spaces of 1-hour fire-resistance rated construction, fully protected by an approved automatic fire suppression system, or be in a listed electrical circuit protective system with a 1-hour fire rating per NEC Article 700.9 (d)(1). Electrical transfer switchgear will be located in either spaces protected by approved fire suppression systems or in spaces with 1-hour fire-resistance ratings in accordance with NEC Article 700.9 (d)(2).

Penetrations and joints of fire-resistance rated building elements will be protected in accordance with IBC Sections 714 and 715, respectively. Duct penetrations of fire-resistance rated walls will be in accordance with IBC Section 717.

Dampers will be provided with access and identification in accordance with IBC Section 717.4. Fire dampers will be located where ducts or air transfer openings penetrate required rated construction not otherwise requiring combination fire/smoke dampers (CFSD).

CFSDs will be located where ducts or air transfer openings penetrate corridors, shafts, fire barriers, and floors (where not shafted). CFSDs will have a minimum leakage rating of Class II and a minimum elevated temperature rating of 250°F per IBC Section 717.3.2.2. CFSDs will have a smoke detector listed for the application installed at each damper unless full area smoke detection has been provided per IBC Section 717.3.3.2. CFSD's will fail to the closed position and will close upon activation of fixed temperature fusible links or dedicated duct-mounted smoke detectors.

Smoke dampers will be located where ducts or air transfer openings penetrate smoke partitions, including elevator lobbies. Smoke dampers will have the same requirements of CFSDs as outlined above.

Penetrations and openings into and through the exit enclosures will be limited per IBC Section 1023.5 as follows:

- Exit doors
- Equipment and ductwork necessary for independent ventilation
- Sprinkler piping, electrical raceways for fire department communication systems, and electrical raceways serving the exit enclosure terminating at a steel box not exceeding 16 in<sup>2</sup>.

In accordance with IBC Section 703.7, any wall required to have protected openings or penetrations will be permanently identified and located in accessible concealed floor, floor-ceiling, or attic spaces, be within 15' of the end of each wall and at intervals not exceeding 30' measured horizontally along the wall or partition with identification including lettering not less than 3" in height with a minimum 3/8" stroke in a contrasting color, and incorporating the suggested wording: "FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS," or other wording.

## **INTERIOR FINISHES**

Wall and ceiling finishes will comply with the requirements of IBC Chapter 8. The following tables summarize the interior finish requirements in accordance with IBC Sections 803 and 804. Traditional floor finish materials such as wood, vinyl, linoleum, or terrazzo and resilient floor covering materials that are not comprised of fibers are exempt from these requirements per IBC Section 804.1.

**Interior Finish Requirements**

Element	Test Method	Criteria
Wall and ceiling finishes	ASTM E84 or UL 723	Class A: FSI 0-25 and SDI 0-450
		Class B: FSI 26-75 and SDI 0-450
		Class C: FSI 76-200 and SDI 0-450
Floor finish	NFPA 253	Class I: 0.45 W/cm <sup>2</sup> or greater
		Class II: 0.22 W/cm <sup>2</sup> up to 0.45 W/cm <sup>2</sup>
	DOC FF-1	Pass

**Notes:**

FSI = flame spread index

SDI = smoke-developed index

**Sprinklered Interior Finish Requirements by Occupancy**

Use Group	Walls and Ceilings			Floors	
	Exit Enclosures and Passageways	Corridors	Rooms and Enclosed Spaces	Exit Enclosures and Passageways	Corridors, Rooms and Enclosed Spaces
A-2	B	B	C	DOC FF-1	DOC FF-1
B/F/R-2/S	C	C			

Combustible decorative materials will meet the flame propagation performance criteria of NFPA 701 – *Standard Methods of Fire Tests for Flame Propagation of Textiles and Films*. Draperies and curtains will not exceed 10% of the specific wall or ceiling area to which they are attached to per IBC Section 806.2. Draperies and curtains will not be provided across means of egress openings. The amount of noncombustible draperies and curtain material will not be limited.

Textile wall and ceiling coverings and expanded vinyl wall and ceiling coverings will be in accordance with IBC Sections 803.5, 803.6, 803.7, and 803.8, respectively.

## EXITING SYSTEMS

The project will utilize the following occupant load factors per IBC Table 1004.5:

Use	Occupancy	OLF [people/ft <sup>2</sup> ]
Lobby areas	R-2	1/15 (net)
Club Room/Outdoor Terrace	A-2	1/15 (net)
Offices	B	1/150 (gross)
Apartments	R-2	1/200 (gross)
Electrical/mechanical equipment/trash, etc.	F-1	1/300 (gross)
Storage	S-1	1/300 (gross)

Egress drawings will be included in the plan package detailing the exiting arrangement.

Interior exit stairways will be calculated multiplying the occupant load served by a stairway by a means of egress capacity factor of 0.3" per occupant in accordance with IBC Section 1005.3.1. Means of egress components other than stairways will be calculated multiplying the occupant load served by such component by a means of egress capacity factor of 0.2" per occupant in accordance with the IBC Section 1005.3.2.

The maximum width of a swinging door leaf will not exceed 48" nominal as required by IBC Section 1010.1.1. The minimum width of interior exit and exit access stairways will be 44" as required by IBC Section 1011.2 except when serving an occupant load of less than 50, in which case a minimum width of 36" is permitted per Exception 1 to IBC Section 1011.2.

In other than Group R-2 and S occupancies, a minimum of two (2) means of egress will be provided from areas with an occupant load between 50 and 500 in accordance with IBC Table 1006.2.1. Group R-2 spaces with an occupant load greater than 20 and Group S spaces with an occupant load of greater than 20 will be provided with a minimum of two (2) means of egress.

Spaces that require access to more than a single means of egress will have two (2) exits separated by more than 1/3 the maximum diagonal dimension of the space as permitted by Exception 2 to IBC Section 1007.1.1.

Egress from a space will not pass through intervening rooms except where intervening rooms are accessory, not a high-hazard occupancy, and provide a discernable path of travel to an exit per IBC Section 1016.2.

Egress doors will be operable from the egress side without the use of a key or special knowledge or effort and will swing in the direction of exit travel when serving an occupant load of 50 or more per IBC Section 1010.1.2. Egress doors serving assembly spaces will be provided with panic hardware as required by IBC Section 1010.1.10. Interior exit stairway doors will not be locked to prevent access to the floors or into the stairway; however, the stairway discharge doors may be locked on exterior side of the doors as permitted by Exception 1 to IBC Section 1010.1.9.12.

Exit access travel distance to an exterior exit door, exit passageway, or enclosed interior exit stairway will not exceed the following in accordance with IBC Table 1017.2:

Occupancy Group(s)	Max. Allowable Travel Distance [ft]
A/F-1/M/R/S-1	250
B	300

Common path of travel will not exceed 75', or 100' in Group B, F, and S occupancies per IBC Table 1006.2.1.

Where more than one exit or exit access doorway is required, the exit access will be arranged such that there are no dead ends in corridors greater than 20' in length or when the length of the dead-end corridor is less than 2½ times the least width of the corridor per IBC Section 1020.4. The length of dead-end corridors in Group B, F, M, R-1, and S occupancies will not exceed 50' in length as permitted by Exception 2 to IBC Section 1020.4.

Illuminated exit signs will be provided at exit doors and where otherwise necessary to clearly indicate the direction of exit travel when two (2) or more exits are required per IBC Section 1013.1. Exit signs will not be required within Group R-2 units as permitted by Exception 3 to IBC Section 1013.1., while low-level exit signage is not required and will not be provided as there are no Group R-1 uses proposed.

Emergency power for exit signage and means of egress illumination will be supplied from the building wiring. Emergency illumination of at least 1-footcandle will be provided at the floor level of all means of egress paths, including the exit discharge per IBC Section 1008.2. If provided, self-luminous and photoluminescent exit signs will be listed and labeled in accordance with UL 924 – *Standard for Emergency Lighting and Power Equipment* and be illuminated at all times in accordance with IBC Section 1013.5.

An average initial emergency illumination level of at least 1-footcandle will be provided at floor level of all means of egress paths, including the exit discharge, and roof egress paths per IBC Section 1008.2.

A two-way communication system will be provided at the elevator landing on each accessible floor one or more stories above the story of exit discharge in accordance with IBC Section 1009.8. The two-way communication system will provide communication between each required location and a central control point location approved by the fire department.

The two-way communication system will include both audible and visible signals as required by IBC Section 1009.8.1. Directions for the use of the two-way communication system, instructions for summoning assistance via the two-way communication system, and written identification of the location will be posted adjacent to the two-way communication system in accordance with IBC Section 1009.8.2.

An accessible means of egress elevator will not be provided per IBC Section 1009.2.1 as the building will only include three (3) stories above the level of exit discharge.

### **EMERGENCY SIGNAGE**

A sign stating "IN CASE OF FIRE, ELEVATORS ARE OUT OF SERVICE. USE EXIT STAIRS." will be posted adjacent to each elevator call station on all floors per IBC Section 3002.3. This sign will also provide a pictorial representation and indicate that the elevator will not operate and that exit stairs should be used.

Stairway identification signs will be provided in compliance with IBC Section 1023.9 for all interior exit stairway enclosures connecting more than three (3) stories. Such signs will designate the floor level, the terminus of the top and bottom of the stair, and the stair identification. The signs will also state the story of and direction of the exit discharge as well as the availability of roof access from the stairway, if provided. Stairway identification signs will be located 5' above the floor landing in a position that is readily visible when the doors are in both the open and closed positions.

The emergency elevator will be identified by the international symbol for emergency medical services (Star of Life), which will be at least 3" high and placed inside on both sides of the hoistway door frame per IBC Section 3002.4.

The maximum occupant load of all assembly spaces will be posted in a conspicuous location near the main exit in accordance with IBC Section 1004.9.

Access points to fire and smoke dampers will be permanently identified on the exterior by a label with letters not less than ½" in height reading "smoke damper", "fire damper", or "fire/smoke damper" per IMC Section 605.5.

Per IBC Section 914.1.1, outside openings accessible to the fire department and that open directly on a hoistway or shaftway communication between two (2) or more floors in a building will be plainly marked with the word "SHAFTWAY" in red letters at least 6" high on a white background. Such warning signs will be placed to be readily discernable from the outside of the building.

Door or window openings to a hoistway or shaftway from the interior of the building will be plainly marked with the word "SHAFTWAY" in red letters 6" high on a white background in accordance with IBC Section 914.1.2. Such warnings will be placed to be readily discernible. Such markings will not be required on shaftway openings that are readily discernable as openings onto a shaftway by the construction or arrangement as permitted by the Exception to IBC Section 914.1.2.

Fire protection equipment rooms will be identified in an approved manner per IBC Section 914.2. Rooms containing controls for air-conditioning systems, sprinklers risers and valves, or other fire detection, suppression, or control elements will be identified for the use of the Fire Department. Approved signs required to identify fire protection equipment and equipment location will be constructed of durable materials, permanently installed, and readily visible.

## **FIRE SUPPRESSION SYSTEMS**

### **AUTOMATIC SPRINKLER PROTECTION**

Automatic sprinkler systems will be designed to comply with the requirements set forth by NFPA 13. Wet-pipe, hydraulically calculated automatic sprinkler systems will be provided throughout all building areas. Dry-pipe, hydraulically calculated automatic sprinkler systems will serve areas that cannot be maintained above 40°F. Automatic sprinklers will be supplied by a combined standpipe system, which will be interconnected at the base per IBC Section 905.4.2.

Protection will be provided as follows:

<b>Use</b>	<b>Hazard Classification</b>	<b>Density/Remote Area</b>
Residential units/lobbies/offices/assembly areas	Light Hazard	0.1 gpm/ft <sup>2</sup> over most hydraulically remote 1,500 ft <sup>2</sup> (or reduced as allowed per NFPA 13, or room design method)
Equipment rooms	Ordinary Hazard, Group 1	0.15 gpm/ft <sup>2</sup> over most hydraulically remote 1,500 ft <sup>2</sup> or 1,950 ft <sup>2</sup> (dry system)
Storage (non-high-piled)	Ordinary Hazard, Group 2	0.2 gpm/ft <sup>2</sup> over most hydraulically remote 1,500 ft <sup>2</sup>

Each floor will constitute a single sprinkler system zone as the net floor area of each level served is less than 52,000 ft<sup>2</sup>. Floor control valves and waterflow switches will be provided at the lateral connection to the riser.

A dedicated sprinkler riser will serve the closely spaced sprinklers protecting the central, interior exit access stairway.

Mechanical and electrical rooms will be fully sprinklered and served by the sprinkler zone in which they reside.

Sprinklers at the bottom of the elevator hoistway will not be required in accordance with NFPA 13 Section 9.3.6.2 if the elevator hoistway does not contain hydraulic fluids.

Automatic sprinklers will be provided at the tops of hoistways only if elevators are not noncombustible and car enclosure materials are not in accordance with AMSE A17.1 – *Safety Code for Elevators and Escalators* as allowed by NFPA 13 Section 9.3.6.5.

Quick-response type sprinklers will be used within the Light Hazard areas and where otherwise required by NFPA 13.

Electrical supervision will be provided at all sprinkler and standpipe control valves, sprinkler waterflow switches, and the fire pump as required by NFPA 13 Section 8.16.1.1.2. Monitoring will be provided for all alarm and trouble signals at a central station, proprietary, or remote station signaling service in accordance with NFPA 13 Section 8.16.1.1.2.1.

Sprinkler protection is required in concealed space except as permitted by Las Vegas Fire & Rescue amended NFPA 13; in particular, sprinklers are not required in noncombustible concealed spaces without access.

Physical obstructions over 4' in width such as ducts and architectural elements will be provided with sprinkler protection underneath. Sprinklers will not be required within non-accessible, noncombustible concealed spaces as permitted by NFPA 13.

## **STANDPIPE SYSTEMS**

As the highest occupiable floor is less than 30' above fire department vehicle access, a standpipe system is not required and will not be provided.

## **WATER SUPPLIES**

Onsite supply piping will comply with NFPA 24. A single 2½" fire department connection (FDC) will be provided for every 250 gpm of required system demand and installed in a location as approved by LVFR. A metal sign labeling the FDC with raised letters at least 1" in size will be provided in accordance with IFC Section 912.5 and will indicate the minimum required pressure and flow. A secondary water storage tank is not required as the building is low-rise.

A fire hydrant will be located within 100' of the FDC in accordance with NFPA 14 Section 6.4.5.4.

Additionally, a weatherproof audible and visible notification appliance will be located above the FDC in accordance with IFC Section 903.4.2. The appliance will be activated by waterflow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system.

## **FIRE PUMP**

A fire pump will be provided that will be sized to support the automatic sprinkler system. Fire pump design and installation will be in accordance with NFPA 20.



The fire pump will be located in a dedicated 1-hour fire-resistance rated room enclosure as previously described within this FPR. Signage will be posted on the door indicating the fire pump room.

The fire pump, driver, and controller will be protected in accordance with NFPA 20 against possible interruption of service through damage caused by explosion, fire, flood, earthquake, rodents, insects, windstorm, freezing, vandalism, and other adverse conditions in accordance with IBC Section 913.2. Suitable means will be provided for maintaining the temperature of the pump room above 40°F as required by IBC Section 913.3. The temperature of the pump room will never be less than the minimum recommended by the engine manufacturer. The engine manufacturer's recommendations for oil heaters will be followed per IBC Section 913.3.1.

The fire pump suction, discharge and bypass valves, and isolation valves on the backflow prevention device or assembly will be supervised open by a central-station, proprietary, or remote-station signaling service in accordance with IBC Section 913.4.

The fire pump will be served by normal and emergency power, if the power supply is not deemed reliable in accordance with NFPA 20 and LVFR requirements. Alternatively, a diesel engine fire pump may be utilized. Acceptance testing will be performed in accordance with the requirements of NFPA 20 per IBC Section 913.5.

## **FIRE EXTINGUISHERS**

Fire extinguishers will be provided and placed in accordance with IFC Section 906 and NFPA 10.

## **FIRE ALARM AND DETECTION SYSTEM**

A fire alarm and detection system will be provided for the building in accordance with IBC Section 907.2.9 and with the requirements set forth by NFPA 72. A single fire alarm and detection system will serve the facility and a general alarm will be utilized.

Initiating devices will include sprinkler waterflow switches, area smoke detection, and a manual fire alarm box located at the fire alarm control unit (FACU). Notification appliances throughout the building will activate upon associated initiating devices within the associated zone. Fire alarm audible and visual zones will be on a per floor basis and will be coordinated with fire alarm and sprinkler systems. Fire alarm devices will initiate a general alarm throughout the entire building.

Fire alarm audible notification appliance (horn) coverage will be provided throughout the project area per IFC Section 907.5.2.1.1. The appliances will provide a minimum 80dB and/or 15dB over ambient sound level, whichever is greater. Laundry rooms, walk-in closets, and storage rooms that are less than 100 ft<sup>2</sup> in size will not be provided with audible notification coverage as permitted by Exception 1 to IFC Section 907.5.2.1.1.

Fire alarm visual notification appliance coverage will be provided in all public and common use areas located within the project areas per IFC Section 907.5.2.3.1. Equipment rooms and storage rooms less than 400 ft<sup>2</sup> as well as janitor closets, exit enclosures, and individual work areas and offices will not be provided with visual notification coverage as permitted by the Exceptions to IFC Section 907.5.2.3.1.

Visual warning devices will be permanently installed in units designated for hearing impaired guests and accessible rooms with a minimum number of units provided with coverage per IBC Section 907.5.2.3.3. Strobes will be activated from the building fire alarm system and local smoke detection within the respective unit.

Annunciation of all system events will be provided at the fire alarm control panel (FACP) located in a location to be determined as the project progresses. All fire alarm initiating devices and circuits will be monitored and indicate a "trouble" condition as required.

The following signals will be transmitted to the FACP:

- Waterflow alarm
- Area smoke detector alarm
- Kitchen hood system alarm and supervisory
- Duct smoke detector supervisory
- Valve tamper supervisory
- System trouble
- Manual fire alarm box at the main lobby desk.

System smoke detectors will be provided at the following locations:

- Throughout corridors serving residential units
- Each elevator landing and elevator machine room
- Where fire-rated doors are held open by magnetic devices
- Where necessary to close CFSDs when duct detectors are not utilized
- In all rooms that contain a fire alarm control unit if neither continuously occupied or sprinklered.
- Notification appliance circuit power extender panels if not located in a constantly attended location per NFPA 72, if provided.

Smoke detection with sounder bases will be provided in the apartment units, including low frequency sounder bases in apartment sleeping areas, in accordance with IFC Section 907.2.11.2. Where more than a single detector serves an apartment unit, they will be programmed to operate all sounder bases serving the unit simultaneously.

The detectors will be provided in the following locations per IFC Section 907.2.11.2:

- On the ceiling or wall of each separate sleeping area in the immediate vicinity of the bedrooms.

- Sleeping areas (bedrooms, rooms with couches, etc) will be provided with 520 Hz low-frequency audible alarms complying with the sleeping area requirements of NFPA 72 and IFC Section 907.5.2.1.3.2.
- In each story within a dwelling unit.

No fuel-burning appliances are proposed. As such, carbon monoxide (CO) alarms and detectors will not be required.

Fire alarm and detection systems will comply with NFPA 72. Detailed design drawings depicting fire alarm system modifications are required to be submitted by the fire alarm contractor to LVFR for review and approval (i.e. performance specification provided with design-build by the fire alarm contractor).

Emergency response radio coverage will be provided, if determined during post construction testing that such a system is needed, per IFC Section 510.1.

The installation of all wiring, cable and equipment will be in accordance with NFPA 70, and specifically with Articles 760 and 770, as applicable. All wiring will be installed in a metallic raceway, such as electrical metallic tubing (EMT), or metal-clad (MC) cable.

### **SMOKE MANAGEMENT**

Smoke management systems are not required and will not be provided.

### **FIRE COMMAND CENTER**

A fire command center (FCC) is not required and will not be provided. The FACU will be located in the fire riser/pump room.

### **ELEVATORS**

Traction-type, machine room less elevators will be utilized. Elevator hoistway shafts will be constructed as described previously within this report. Elevator lobbies will be provided in accordance with IBC Section 3006.2 (zero-clearance lobby doors will be utilized).

Each elevator landing will be provided with area smoke detector(s) installed within its/their listing(s).

Activation of an elevator landing or machine room smoke detector will cause automatic recall of all elevators serving that bank. The cabs will return nonstop to Level 1 (grade). If detection occurs at Level 1 (grade), the elevators will recall to Level 2 or next lowest accessible level of the cab.

A three-position (ON/OFF/BYPASS) key-operated switch will be provided at grade level for each bank of elevators for emergency override. A three-position (ON/OFF/BYPASS) key-operated switch will be

provided in each elevator car. Elevator keys will be provided for fire department use in case of emergency in a lockable cabinet within the main lobby desk area.

### **SPECIAL INSPECTIONS AND TESTING**

Inspections and testing will be required for the fire sprinkler and alarm systems located within the project area. Testing will be consistent with the requirements of NFPA 13, 14, 20, 72, 96, and IFC, as applicable.

Mechanical Quality Assurance Agency (MQAA) smoke control testing in accordance with IBC Section 1705.18 will not be required. Firestop inspections will not be required for penetrations and joints of fire-resistance rated assemblies as permitted by IBC Section 1705.18 as the building is classified as Risk Category II with a fire area occupant load below 250 occupants.

### **FUTURE MODIFICATIONS**

Any future modifications and expansions will be documented in amendments/addenda to this FPR. The document will be prepared by a design professional licensed in the State of Nevada working within the area of their expertise. As appropriate, a licensed design professional will be included in the design of all renovations/expansions.

### **PERIODIC OPERATION AND MAINTENANCE**

The active fire protection systems and devices will be regularly tested in accordance with applicable codes and standards by qualified individuals acceptable to Las Vegas Building & Safety (LVBS).

Records of maintenance and testing will be retained onsite and presented to LVBS upon request.

### **CONCLUSION**

The devices, systems and approaches outlined in this report are intended to provide a level of life safety and property protection which are in compliance with the applicable codes. This level of protection is based on the interaction of both active and passive fire protection features.

Active systems include fire suppression and detection systems. Passive features include compartmentation with fire resistive separations, Type VA construction, means of egress systems, and flame spread limitations.

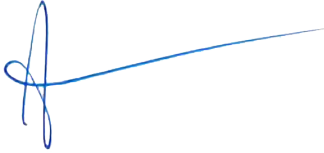
Nothing in this document is intended to imply code noncompliance.

This report provides general fire protection guidelines developed for the Advent Affordable Housing project. Working drawings and specifications will be coordinated to comply with the fire protection features outlined in this document.

If there are any questions regarding the information in this report, please don't hesitate to contact our office.

TERPconsulting

Prepared by:



Adam Krylo, AET  
fire protection consultant

Reviewed by:



Bryan L Douglass, PE 5/21/24  
principal fire protection engineer

### ELECTRICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND. NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION
S	SINGLE POLE SWITCH AT +48" TO TOP UNO
SS	DUAL SWITCH AT +48" TO TOP UNO
S <sub>3</sub>	3-WAY POLE SWITCH AT +48" TO TOP UNO
S <sub>4</sub>	4-WAY POLE SWITCH AT +48" TO TOP UNO
S <sub>D</sub>	DIMMER SWITCH - SOLID STATE TYPE AT +48" TO TOP UNO
S <sub>K</sub>	SWITCH - KEY OPERATED AT +48" TO TOP UNO
S <sub>T</sub>	THERMAL OVERLOAD SWITCH
S <sub>TM</sub>	SWITCH WITH DIGITAL TIMER @ +48" TO TOP UNO
S <sub>O</sub>	SWITCH WITH OCCUPANCY SENSOR AT +48" TO TOP UNO
S <sub>V</sub>	SWITCH WITH VACANCY SENSOR AT +48" TO TOP UNO
[DS]	DAYLIGHT HARVESTING CEILING MOUNTED MOTION SENSOR
[OS]	CEILING MOUNTED OCCUPANCY SENSOR
[VS]	CEILING MOUNTED VACANCY SENSOR
—LED—LED—	LED LIGHTING
(L)	DECORATIVE LIGHT FIXTURE (OWNER FURNISHED AND CONTRACTOR INSTALLED)
A	2X4' LIGHT FIXTURE / ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED ON FIXTURE SCHEDULE (TYPICAL)
□	4' LIGHT FIXTURE / ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP
□	4' LIGHT FIXTURE / ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP
□	2X2' LIGHT FIXTURE / ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP
□	DOWNLIGHT FIXTURE/ ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP
□	STEP LIGHT
□	WALL WASH / ACCENT LIGHT
□	WALL MOUNTED FIXTURE
□	POLE MOUNTED FIXTURE
□	TRACK LIGHT WITH FIXTURE HEADS
S	JUNCTION BOX FOR SIGNAGE. PROVIDE WITH DISCONNECTING MEANS
□	EXIT LIGHT CEILING MOUNTED - SEE FIXTURE SCHEDULE
□	EXIT LIGHT WALL MOUNTED - SEE FIXTURE SCHEDULE
□	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS
□	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS AND EXIT SIGN
□	PHOTOCELL (INSTALL ON ROOF FACING NORTH)
□	SINGLE RECEPTACLE AT +18" TO CENTER UNLESS NOTED
□	DUPLEX RECEPTACLE AT +18" TO CENTER UNLESS NOTED
□	GFCI RECEPTACLE AT +18" TO CENTER UNLESS NOTED
□	DOUBLE DUPLEX RECEPTACLE AT +18" TO CENTER UNLESS NOTED
□ <sup>IG</sup>	ISOLATED GROUND TYPE (ORANGE) DUPLEX RECEPTACLE AT +18" CENTER UNLESS NOTED
□	SPECIAL RECEPTACLE AT +18" TO CENTER UNLESS NOTED
□	CLOCK RECEPTACLE @ +90° UNLESS NOTED
□	FLUSH FLOOR DUPLEX RECEPTACLE
□ <sup>Q</sup>	FLUSH FLOOR DOUBLE DUPLEX RECEPTACLE
□	1/2 SWITCHED (BOTTOM HALF) DUPLEX RECEPTACLE AT +18" TO CENTER UNLESS NOTED
□	CEILING MOUNTED DUPLEX RECEPTACLE
□ <sup>C</sup>	RECEPTACLE INSTALLED ABOVE COUNTER
□ <sup>H</sup>	RECEPTACLE INSTALLED HORIZONTALLY
□ <sup>USB</sup>	GFCI COMBINATION TYPE A/C USB DUPLEX RECEPTACLE
□	MULTI-OUTLET PLUGSTRIP
[FB]	FLOORBOX
[WB]	WALL BOX
□	JUNCTION BOX
□ <sup>FS</sup>	JUNCTION BOX AND SWITCH WITH CONNECTION TO FIRE/SMOKE DAMPER. COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM AND MECHANICAL CONTROL DIAGRAMS
□ <sup>V</sup>	JUNCTION BOX AND SWITCH WITH CONNECTION TO VARIABLE AIR VOLUME BOX. COORDINATE REQUIREMENTS WITH MECHANICAL CONTROL DIAGRAMS
□ <sup>DH</sup>	DOOR HARDWARE CONNECTION
□ <sup>HO</sup>	DOOR HOLD OPEN
[R]	RELAY
[P]	POWER SUPPLY
[P]	PUSHBUTTON TYPE CONTROL STATION
[SPD]	SURGE PROTECTION DEVICE
□	GROUND BUS & GROUND ELECTRODES
□	SURFACE MOUNTED PANELBOARD
□	FLUSH MOUNTED PANELBOARD
□	MAIN SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
□	CONCRETE PULLBOX WITH HEAVY DUTY STEEL TRAFFIC COVER
[T]	TRANSFORMER
□	MOTOR CONNECTION

### ELECTRICAL SYMBOL LEGEND

(THIS IS A MASTER LEGEND. NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION
□	NON-FUSED DISCONNECT SWITCH - 30A, 3P, UNO
□	FUSED DISCONNECT SWITCH - 30A, 3P WITH 30A FUSES UNO
□	MAGNETIC MOTOR STARTER - FVNR, NEMA SIZE #1 (UNLESS NOTED OTHERWISE) WITH HOA, RED RUN PILOT LIGHT, CONTROL XFMR, SOLID STATE OVERLOADS, (2) NO AND (2) NC CONTACTS
A-(1,3,5)	HOMERUN CONDUIT - 3 #12, 1 #12 GND IN 3/4"C TO PANEL 'A' (UNO)
A-1,3,5	HOMERUN CONDUIT - 6 #12, 1 #12 GND IN 3/4"C TO PANEL 'A' (UNO)
—	CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS
---	CONDUIT AND/OR WIRE BELOW FLOOR OR GRADE
-x-x-x-	EXISTING CONDUIT AND/OR WIRE TO BE REMOVED
—	EXISTING CONDUIT AND/OR WIRE TO REMAIN (SHOWN LIGHT LINEWEIGHT)
—	CONDUIT STUB-OUT WITH END CAP OR INSULATED PLASTIC BUSHING
—	CONDUIT/WIRING CONTINUATION
—	CONDUIT AND/OR WIRE RISER UP/RISER DOWN
—	1/2"-3 #12 & 1 #12 GRND THWN UNLESS NOTED
□	CIRCUIT BREAKER
□	SHUNT TRIP CIRCUIT BREAKER
□	FUSIBLE SWITCH
□	GENERATOR
□	GROUNDING ELECTRODE
□	SINGLE METER WITH CT
□	AUTOMATIC OR MANUAL TRANSFER SWITCH
□	SHUNT TRIP DEVICE LOCATED IN METAL ENCLOSURE WITH HINGED AND LOCKABLE COVER
□	FEEDER - SIZE AS INDICATED ON FEEDER SCHEDULE
□	DIVISION 23 EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS
□	METER
▽	TELEPHONE/DATA OUTLET (2) 4-PAIR (1 VOICE & 1 DATA) CATEGORY-6 CABLES (TYPE 'H') WITH (2) PORTS FACEPLATE.
▽	TELEPHONE OUTLET (1) 4-PAIR CATEGORY-6 CABLES (TYPE 'H') WITH SINGLE PORT FACEPLATE.
▽	DATA OUTLET (1) 4-PAIR CATEGORY-6 CABLES (TYPE 'H') WITH SINGLE PORT FACEPLATE.
□	TELEVISION OUTLET (1) SERIES 6 COAX CABLE FROM TV TAP TO TV OUTLET.

### ELECTRICAL ABBREVIATIONS

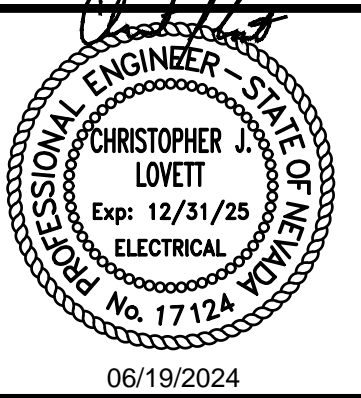
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
+18"	MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR FINISH GRADE	MOC	MAXIMUM OVERCURRENT PROTECTION
A	AMPERE	MTD	MOUNTED
AFF/G	ABOVE FINISHED FLOOR/GROUND	MIS	MANUAL TRANSFER SWITCH
AFCI	ARC FAULT CIRCUIT INTERRUPTER	[N]	NEW
AHJ	AUTHORITY HAVING JURISDICTION	NC	NORMALLY CLOSED
AL	ALUMINUM	NEC	2017 NATIONAL ELECTRICAL CODE, AS ADOPTED BY THE AHJ
ATS	AUTOMATIC TRANSFER SWITCH	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
C	CONDUIT	NIC	NOT IN CONTRACT
CEC	CALIFORNIA ELECTRIC CODE	NO	NORMALLY OPEN
CO	CONDUIT WITH PULL-LINE ONLY	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	PH. Ø	PHASE
[D]	DEMO	PNL	PANEL
DB	DISTRIBUTION BOARD		
(E)	EXISTING	SQFT	SQUARE FEET
EC	ELECTRICAL CONTACTOR	SWBD	SWITCHBOARD
FLA	FULL LOAD AMPS	TYP	TYPICAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UL	UNDERWRITERS LABORATORIES
GFP	GROUND FAULT PROTECTION	UNO	UNLESS NOTED OTHERWISE
GND	GROUND	UPS	UNINTERRUPTIBLE POWER SYSTEM
HOA	HANDS OFF AUTO	V	VOLT
IBC	INTERNATIONAL BUILDING CODE	VA	VOLT-AMP
KAIC	KILO AMPERE INTERRUPTING CAPACITY	VAV	VARIABLE AIR VOLUME
KW	KILOWATT	VD	VOLTAGE DROP
LED	LIGHT EMITTING DIODE	W	WATT
LV	LOW VOLTAGE	WP	WEATHER-PROOF (NEMA 3R)
MCA	MINIMUM CIRCUIT AMPS	XFMR	TRANSFORMER
MCC	MOTOR CONTROL CENTER	XP	EXPLOSION PROOF

SHEET NUMBER	SHEET DESCRIPTION	ISSUE	
		2024-04-25 PERMIT	2024-06-21 REVISION 1
E0.00	COVER SHEET	•	
E0.01	GENERAL NOTES	•	
E0.02	GENERAL NOTES	•	
E0.03	TECHNOLOGY DIAGRAMS	•	
E0.04	ELECTRICAL DIAGRAMS	•	
E0.10	IECC AND LIGHT FIXTURE SCHEDULE	•	
E1.00	OVERALL POWER PLAN - LOCATION PLAN	•	
E1.10	OVERALL PHOTOMETRIC PLAN - SITE	•	
E2.10	OVERALL POWER PLAN - FIRST FLOOR	•	
E2.20	OVERALL POWER PLAN - SECOND FLOOR	•	
E2.30	OVERALL POWER PLAN - THIRD FLOOR	•	
E3.10	OVERALL LIGHTING PLAN - FIRST FLOOR	•	
E3.20	OVERALL LIGHTING PLAN - SECOND FLOOR	•	
E3.30	OVERALL LIGHTING PLAN - THIRD FLOOR	•	
E4.00	OVERALL POWER PLAN - ROOF	•	
E4.10	ENLARGED UNIT PLAN - 1A TYPE B	•	
E4.20	ENLARGED UNIT PLAN - 1B TYPE B	•	
E4.30	ENLARGED UNIT PLAN - 1C TYPE A	•	
E4.40	ENLARGED UNIT PLAN - 2D TYPE B	•	
E4.50	ENLARGED UNIT PLAN - TYPE 2E	•	
E5.00	SINGLE LINE DIAGRAM	•	
E5.01	SINGLE LINE DIAGRAM	•	
E5.02	SINGLE LINE DIAGRAM	•	
E6.00	COMMON AREA PANELS	•	



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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PROJECT: SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE: COVER SHEET

PERMIT

#### REVISIONS

No.	Description	Date

DRAWN BY: RE  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

SHEET

E0.00

**(R)EVOLUTION ENGINEERING**  
3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361

### MECHANICAL SYSTEMS

- CONTRACTOR SHALL PROVIDE CONTROLS, INTERLOCKS, ACCESSORIES, ETC., AS REQUIRED BY THE TEMPERATURE CONTROL CONTRACTOR. STARTERS SHALL CONTAIN 120V CONTROL TRANSFORMER, PILOT LIGHT, AND PUSHBUTTONS OR SELECTOR SWITCH AS REQUIRED. IN ADDITION TO OTHER ITEMS (AUXILIARY CONTACTS, DOOR SWITCHES, RELAYS, ETC.) REQUIRED, REFER TO DIV. 15 DRAWINGS AND TEMPERATURE CONTROL DIAGRAMS FOR ADDITIONAL CONDUIT, WIRE, RELAYS, TRANSFORMERS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- WHERE MECHANICAL EQUIPMENT IS INSTALLED ABOVE A GYROBOARD CEILING REQUIRING ACCESS THROUGH AN ACCESS PANEL, PROVIDE A RECEPTACLE, SWITCH AND LIGHT IN THE CEILING SPACE AT THE ACCESS LOCATION.
- PROVIDE MAINTENANCE RECEPTACLE WITHIN 25'-0" OF ALL MECHANICAL OR MOTORIZED EQUIPMENT.
- SEE DIVISION 15 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED. PROVIDE FUSES OR HACR-TYPE CIRCUIT BREAKERS FOR ALL AIR CONDITIONING EQUIPMENT SIZED IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
- DUCT DETECTORS SHALL BE PHOTOELECTRIC TYPE FURNISHED BY DIVISION 16, INSTALLED IN THE SUPPLY AIR DUCTS BY DIVISION 15 AND CONNECTED TO THE FIRE ALARM SYSTEM BY DIVISION 16. DUCT DETECTOR SHALL BE CONNECTED TO SHUT OFF ALL AIR HANDLING UNITS LOCATED WITHIN THE SAME PLENUM. DUCT DETECTORS SHALL NOT BE MOUNTED IN AN ENVIRONMENT WHICH EXCEEDS 122°F. PROVIDE ZERO VELOCITY TYPE DETECTORS WHERE REQUIRED. INSTALLATION SHALL BE COORDINATED WITH DIV. 15 TO MAINTAIN AIRFLOW & ACCESS.

### UNDERGROUND AND EXTERIOR INSTALLATIONS

- VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC., REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
- SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCTSEAL".
- PULLBOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER-PROOF SCREWS.
- UNDERGROUND CONDUITS SHALL BE INSTALLED WITH A MINIMUM BURIAL DEPTH PER NEC TABLE 300.5 AND PER THE LOCAL UTILITY FOR SERVICE ENTRANCE CONDUCTORS.

### MINIMUM WIRE SIZE REQUIREMENTS

20A BREAKERS - #12 AWG WIRE  
 30A BREAKERS - #10 AWG WIRE  
 40A BREAKERS - #8 AWG WIRE

### DISTRIBUTION EQUIPMENT

- SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, ETC. SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D' OR CUTLER-HAMMER. BOLT FREE STANDING EQUIPMENT TO 4" HIGH CONCRETE HOUSEKEEPING PADS.
- ALL EQUIPMENT SUCH AS SWITCHBOARDS, DISTRIBUTION BOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER. ALL FUSES PROVIDED SHALL BE OF THE SAME MANUFACTURER.
- WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4" C SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS.
- DRY TYPE TRANSFORMERS SHALL BE 80°C RISE WITH 220°C INSULATION. MOUNT ON RUBBER-IN-SHEAR ISOLATORS. MANUFACTURERS SHALL BE GENERAL ELECTRIC, SIEMENS, CUTLER-HAMMER OR SORGEL (SG.D).
- PROVIDE ENGRAVED NAMEPLATES ON SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC., INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
- PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
- PROVIDE 4" HIGH CONCRETE EQUIPMENT PADS BENEATH SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS 'R' FUSES ONLY AND REJECT ALL OTHERS. INSTALL DISCONNECT SWITCH ON TWO 24" LONG UNISTRUT CHANNELS DRILLED AND BOLTED TO HVAC UNIT FRAME WHERE POSSIBLE (COORDINATE LOCATION W/ HVAC MANUFACTURER TO AVOID WARRANTY INFRACTIONS). SILICONE SEAL ALL HOLES IN UNIT.
- PROVIDE DYMO-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
- PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.
- PROVIDE SHOP DRAWING SUBMITTAL WITH 1/4" SCALE LAYOUT DRAWINGS OF ROOMS WITH ELECTRICAL EQUIPMENT AND/OR TRANSFORMERS. LAYOUTS SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND EQUIPMENT SHALL BE DRAWN TO SCALE. ALTHOUGH MORE THAN ONE EQUIPMENT MANUFACTURER IS LISTED FOR USE ON THIS PROJECT, IF THAT MANUFACTURER CANNOT MEET THE PHYSICAL CONSTRAINTS OF THIS PROJECT THEIR EQUIPMENT IN TOTAL IS NOT ACCEPTABLE. DRAWINGS SHALL INDICATE BY DIMENSION THAT CLEARANCE REQUIRED BY CODE ARE PROVIDED.
- MULTI-METERING EQUIPMENT SHALL BE SQUARE 'D' EZ METER-PAK. COMPONENTS SHALL HAVE BEEN TESTED AND U.L. LISTED FOR USE AS AN INTEGRAL PART OF THE MULTI-METERING SYSTEM. METER SOCKETS SHALL BE RATED FOR CONTINUOUS DUTY, FUSEBIC APPROVED AND IN FULL COMPLIANCE WITH UTILITY COMPANY REQUIREMENTS. MAIN CIRCUIT BREAKERS SHALL BE SQUARE 'D' TYPE Q2, TWO POLE TYPE (I.L.O.), THE METER CENTER SHALL HAVE A U.L. LISTED INTEGRATED EQUIPMENT RATING OF 42,000 AMPERES RMS SYMMETRICAL. EQUIPMENT MEETING THIS SPECIFICATION AS MANUFACTURED BY GENERAL ELECTRIC, SIEMENS OR CUTLER-HAMMER WILL BE GIVEN APPROVAL.
- GENERATOR SYSTEM SHALL BE COMPLETE AND OPERABLE AND SHALL INCLUDE REQUIRED ACCESSORIES, FUEL TANKS, PIPING, MUFFLER, BLOCK HEATER, BATTERY CHARGER ETC.
- ELECTRICAL ROOMS WITH UTILITY SERVICE EQUIPMENT OR WITH EQUIPMENT RATED 400A OR MORE THAT CONTAINS OVERCURRENT DEVICES, SWITCHING DEVICES, OR CONTROL DEVICES AND THERE IS A PERSONNEL DOOR(S) INTENDED FOR ENTRANCE TO AND EGRESS FROM THE WORKING SPACE LESS THAN 7.6M (25FT) FROM THE NEAREST EDGE OF THE WORKING SPACE. THE DOOR(S) SHALL OPEN IN THE DIRECTION OF EGRESS AND BE EQUIPPED WITH LISTED PANIC HARDWARE.

### WIRING DEVICES

- WIRING DEVICES SHALL BE SPECIFICATION GRADE AND RATED AT 20 AMPERES. THE DEVICE PLATES SHALL BE LEXAN OR NYLON (IN KITCHENS WITH STAINLESS STEEL COUNTERS DEVICE PLATES SHALL BE STAINLESS STEEL). THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT.
- RECEPTACLES WHICH ARE SHOWN WALL MOUNTED ON THE ELECTRICAL DRAWINGS ON WALLS WHICH, ON THE ARCHITECTURAL DRAWINGS AND ELEVATIONS ARE SHOWN AS GLASS OR PARTITIONS, SHALL BE FLUSH FLOOR DUPLEX RECEPTACLES MOUNTED ADJACENT TO BASE OR WALLS. COORDINATE MOUNTING HEIGHTS & LOCATIONS OF ALL OUTLETS & DEVICES WITH ARCHITECTURAL CABINET DRAWINGS & INTERIOR ELEVATIONS.
- FLUSH FLOOR RECEPTACLE OUTLETS SHALL BE HUBBELL #B-2527 WITH BRASS COVER #S-3925. PROVIDE CARPET OR TILE FLANGE TO MATCH.
- FLOOR FINISH, FLUSH FLOOR TELEPHONE OUTLETS SHALL BE HUBBELL #B-2527 WITH BRASS COVER #S-2725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.
- BOXES SHALL BE MINIMUM 4" SQUARE WITH REQUIRED EXTENSIONS & PLASTER OR TILE RINGS.
- DEVICES INSTALLED IN FIRE RATED WALLS SHALL HAVE HEVI-DUTY NELSON FSP PUTY, PADS INSTALLED TO MAINTAIN FIRE INTEGRITY-ONE PAD PER HOUR OF RATING. CONDUIT PENETRATING FIRE RATED WALLS SHOULD COMPLY WITH THE REQUIREMENTS OF UL SYSTEM 1474 FOR SINGLE CONDUITS OR UL SYSTEM 322 FOR MULTIPLE CONDUITS.
- RECEPTACLES INSTALLED OUTSIDE, ON THE BUILDING EXTERIOR OR ROOF, IN KITCHENS OR WITHIN 6 FEET HORIZONTALLY FROM A SINK OR DRINKING FOUNTAIN UNLESS LOCATED BELOW A COUNTER OR OTHERWISE PROTECTED SHALL BE GFCI TYPE OR PROTECTED BY GFI CIRCUIT BREAKER.
- WIRING DEVICES IN DWELLING UNITS AND GUESTROOMS SHALL BE PROVIDED IN SUFFICIENT QUANTITY TO MEET THE REQUIREMENTS OF NEC 210. DEVICE LOCATIONS SHALL ALSO COMPLY WITH NEC 210.
- SMOKE DETECTORS SHALL BE SELF-CONTAINED WITH AUDIBLE ALARM, U.L. LISTED AND COMPLY WITH N.F.P.A. STANDARD 72. INTERCONNECT DETECTORS WITHIN A DWELLING UNIT OR GUESTROOM TO SOUND A COMMON ALARM.
- ALL DEVICES INSTALLED IN THE ELEVATOR PIT SHALL BE NEMA 4.
- COORDINATE THE LOCATION OF ALL WALL MOUNTED EQUIPMENT WITH THE ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, UNLESS OTHERWISE VERIFIED IN WRITING THE ARCHITECTURAL DRAWINGS SHALL GOVERN.

### FIXTURE GENERAL NOTES

- FIXTURES INDICATED AS BEING ON EMERGENCY OR NIGHT LIGHT CIRCUITS SHALL BE PROVIDED WITH SELF-CONTAINED BATTERY POWERED INVERTER UNIT FOR DIRECT MOUNTING IN FIXTURE. PROVIDE UNIT WITH FULLY AUTOMATIC TWO RATE CHARGER, NICKEL CADMIUM BATTERY, AC "ON" PILOT LIGHT, AND TEST SWITCH. DESIGN AND WIRE UNIT TO AUTOMATICALLY TRANSFER TO BATTERY SUPPLY ON LOSS OF NORMAL AC POWER AND TO OPERATE FOR MINIMUM 1-1/2 HOURS.
- RECESSED LIGHT FIXTURES INSTALLED IN GYP. BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL.
- RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.
- FIXTURES RECESSED IN "T-BAR" CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM, WITH TWO #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE U.L. APPROVED ASSEMBLY.
- COORDINATE THE LOCATION OF LIGHTING FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. UNLESS OTHERWISE VERIFIED IN WRITING THE REFLECTED CEILING PLAN LOCATIONS SHALL GOVERN.
- FIXTURES INDICATED SHALL BE USED AS A BASIS FOR BIDDING. ANY ALTERNATE LIGHT FIXTURE PACKAGES SHALL BE SUBMITTED IN ACCORDANCE WITH THE FIXTURE SUBSTITUTION PROVISIONS IN THE GENERAL CONDITIONS OF THE CONTRACT.
- MANUFACTURERS CATALOG NUMBERS SHOWN INDICATE BASIC FIXTURE TYPES REQUIRED FOR THIS PROJECT. VERIFY WITH MANUFACTURER TO INCLUDE ALL ACCESSORIES REQUIRED FOR ACTUAL INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIXTURE LOCATIONS, MOUNTING REQUIREMENTS AND ALL U.L. LABELING OF FIXTURES PRIOR TO ORDERING. INCLUDE MOUNTING CLIPS, HARDWARE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
- WHERE AREAS ON THE PLANS ARE INDICATED FOR DUAL SWITCHING SHALL BE SWITCHED AS FOLLOWS: ONE SWITCH SHALL OPERATE THE INNER LAMP AND THE OTHER SWITCH SHALL OPERATE THE OUTER LAMPS. PROVIDE ALL BALLASTS, FIXTURE WHIPS, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
- LIGHTING DIMMING CIRCUITS SHALL HAVE A SEPARATE NEUTRAL UNLESS OTHERWISE SPECIFIED BY LIGHT FIXTURE AND DIMMER.

### CONDUIT AND WIRE

- WIRE SHALL BE COPPER, 75°C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS WIRE SHALL BE COPPER, MINIMUM 90°C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30°C AMBIENT TEMPERATURE. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. 600 VOLT STABILLOY 8030 SERIES ALLOY ALUMINUM WIRE AND CABLE (OR EQUAL) IN SIZES 1/0 AND LARGER MAY BE SUBSTITUTED FOR COPPER ON SERVICES AND FEEDERS IF AMPACITY IS EQUAL TO OR GREATER THAN COPPER AND VOLTAGE DROP IS EQUAL TO OR LESS THAN COPPER.
- ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT. STUB CONDUIT OUT 6" INTO AN ACCESSIBLE AREA. CAP OPEN ENDS NOT TERMINATED IN A JUNCTION BOX.
- FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).
- NON-METALLIC AND FLEXIBLE METAL CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
- CONDUITS PENETRATING THRU ROOF SHALL HAVE ROOF FLASHING WITH CAULK 66. TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATER TIGHT.
- PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH ARC-FAULT OR GROUND FAULT CIRCUIT.
- FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL-TITE FLEX (3'-0" MAXIMUM LENGTH) AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
- ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUAL PROTECTION. EMT FITTINGS SHALL BE STEEL. CONNECTORS SHALL BE INSULATED THROAT TYPE. TYPE MC CABLE MAY BE USED FOR BRANCH CIRCUITS #8 AWG AND SMALLER AND WHERE ALLOWED BY NEC 330. TYPE NM CABLE MAY BE USED WHERE ALLOWED BY NEC 334.
- WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75°C.
- MULTIWIRED BRANCH CIRCUITS SHALL BE PROVIDED WITH A DISCONNECTING MEANS PER NEC 210.4(B).

### ELECTRICAL GENERAL NOTES

- THIS SET OF DRAWINGS COMPRISE THE CONTRACT DOCUMENTS FOR THIS PROJECT AND AS SUCH EACH DISCIPLINE (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND SPECIALTY) SHALL BE REFERRED TO AND COORDINATED WITH EACH OTHER. IF CONFLICTS ARE NOTED BETWEEN THE DISCIPLINES, THEY ARE TO BE BROUGHT TO THE ARCHITECT OF RECORD'S ATTENTION TO BE RESOLVED PRIOR TO BID. NO CLAIMS FOR EXTRA COMPENSATION WILL BE PROVIDED FOR FAILURE TO COORDINATE SCOPE PRIOR TO PROJECT AWARD.
- WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ADOPTED VERSION OF THE APPLICABLE IBC (INTERNATIONAL BUILDING CODE), IECC (INTERNATIONAL ENERGY CONSERVATION CODE), UMC (UNIFORM MECHANICAL CODE), UPC (UNIFORM PLUMBING CODE), NEC (NATIONAL ELECTRICAL CODE), IFC (INTERNATIONAL FIRE CODE). IN ADDITION, ALL PROVISIONS LISTED IN THE SOUTHERN NEVADA AMENDMENTS SHALL BE ADHERED TO. INCORPORATE ANY ADDITIONAL REQUIREMENTS INTO THE BASE BID. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR WORK REQUIRED TO CONFORM TO REGULATIONS.
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- FINAL CONNECTIONS & ROUGH-IN REQUIREMENTS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN ITS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.
- PROPOSED SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUAL" OR "APPROVED EQUAL" LISTING SHALL BE SUBMITTED TO ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES AND ORDINANCES.
- ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.
- PROVIDE PERMITS AND INSPECTIONS REQUIRED.
- GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- PROVIDE RECORD DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
- VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
- WHEN COMPLETE THE ELECTRICAL CONTRACTOR SHALL MEASURE THE STEADY STATE LOAD CURRENTS AT EACH PANEL BOARD FEEDER. SHOULD THE DIFFERENCE AT ANY PANEL BOARD BETWEEN PHASES EXCEED 20%, THE ELECTRICAL CONTRACTOR SHALL REARRANGE CURRENTS IN THE PANEL TO BALANCE PHASE LOADS. TESTING SHALL BE DONE IN THE PRESENCE OF AN OWNERS REP AND RESULTS SUBMITTED IN WRITING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS OR EQUIPMENT.
- SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.
- PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME, BOUND IN THREE-RING BINDERS, INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.
- ELEVATOR SHAFT, PIT, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS, AND ALL REQUIRED ELEMENTS UTILITIES-OTIS MODEL GEN'S EDGE BY OTIS AS BASIS OF DESIGN. ELEVATOR SHAFT AND PIT SIZES, FOOTINGS, MECHANICAL PLUMBING AND ELECTRICAL CONNECTIONS ARE PROVIDED FOR BID PURPOSES ONLY. CONTRACTOR TO CONFIRM SHAFT AND PIT DIMENSIONS, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS AND ALL REQUIRED ELEMENTS REQUIRED FOR COMPLETE INSTALLATION AND OPERATIONS OF THE ELEVATOR WITH THE SELECTED ELEVATOR MANUFACTURER AT TIME OF BID. CONTRACTOR TO PROVIDE ALL ELEMENTS INCLUDING SHAFT AND PIT DIMENSIONS, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL REQUIREMENTS AS A COMPLETE DESIGN SUBMITTAL FOR APPROVAL PRIOR TO ACCEPTANCE AND INSTALLATION OF PROPOSED ELEVATOR AT TIME OF BID. CONTRACTOR TO PROVIDE HIGHEST QUALITY INTERIOR MATERIALS PROVIDED BY MANUFACTURER WITHIN THE BID PROPOSAL. CONTRACTOR SHALL BEAR ALL COSTS REQUIRED FOR ENGINEERING REQUIRED FOR ACCEPTANCE OF PROPOSED ELEVATOR AT TIME OF BID.

### VOLTAGE DROP REQUIREMENTS

CONTRACTOR SHALL PROVIDE WIRING FOR 120V CIRCUITS (LINE TO NEUTRAL) OF SIZES BELOW DEPENDING UPON CIRCUIT LENGTH BELOW:  
 <100 FT #12 AWG (CU)  
 100-160 FT #10 AWG (CU)  
 160-250 FT #8 AWG (CU)

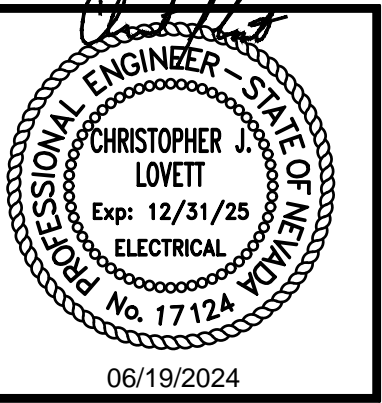
### AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES

- ALL WORK INCLUDED HEREIN SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). ALL OPERABLE DEVICES SUCH AS, BUT NOT LIMITED TO, SWITCHES, PULLSTATIONS, AND THE THERMOSTATS SHALL BE INSTALLED AT +48" A.F.F. TO THE TOP MOST OPERABLE PORTION OF THE CONTROL IN ACCORDANCE WITH SECTION 309-OPERABLE PARTS. RECEPTACLES, TELEPHONE/DATA OUTLETS, AND SIMILAR DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 308 - REACH RANGES, AND THESE DEVICES SHALL BE INSTALLED AT A MINIMUM OF 15" TO THE BOTTOM OF THE DEVICE.



5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113

Office: 702.888.2088  
 Fax: 702.888.2089  
 Web: www.kmearchitects.com  
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PROJECT: SNRHA BENNETT PLAZA PHASE II  
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SHEET TITLE: GENERAL NOTES

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1	CLV COM.	6/21/24

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3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3361

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### LIGHTING PLAN NOTICES

1. THE CONTRACTOR SHALL COORDINATE THE EXACT MOUNTING LOCATION OF ALL DEVICES AND OUTLETS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
2. ALL MULTIWIRED BRANCH CIRCUIT HOME RUNS SHALL BE INSTALLED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR.
3. THE CONTRACTOR SHALL READ AND COMPLY WITH ALL GENERAL NOTES IN THIS DRAWING PACKAGE. NO CHANGE ORDERS SHALL BE ACCEPTED FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
4. THE CONTRACTOR SHALL INSTALL PULL STRING IN ALL EMPTY CONDUITS.
5. THE CONTRACTOR SHALL REVIEW ALL CONSULTANTS AND ARCHITECTURAL DRAWINGS PRIOR TO BID AND ISSUE PRE-BID RFI'S SHOULD DISCREPANCIES BE IDENTIFIED. NO CHANGE ORDERS WILL BE APPROVED FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
6. THE WORD 'PROVIDE' MEANS TO FURNISH, INSTALL, CONNECT, TERMINATE, TEST AND VERIFY THAT EQUIPMENT INSTALLED IS FUNCTIONING PROPERLY.
7. THE CONTRACTOR SHALL OBTAIN, REVIEW, AND COMPLY WITH ALL LOCAL JURISDICTION AMENDMENTS TO THE NEC AND OTHER APPLICABLE CODES PRIOR TO BID. NO CHANGE ORDERS WILL BE APPROVED FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
8. PRIOR TO BID, THE CONTRACTOR SHALL REVIEW THE PLANS AND CONTACT THE ENGINEER OF RECORD WITH ANY QUESTIONS REGARDING THE INFORMATION INDICATED WITHIN. PRESENT QUESTIONS IN THE FORM OF A PRE-BID RFI.
9. ALL FIXTURES SCHEDULED WITH A BATTERY PACK OR LABELED AS 'NL' (NIGHT LIGHT) SHALL BE CONNECTED WITH AN UN-SWITCHED CONSTANT HOT CONDUCTOR.
10. ALL RECESSED FIXTURES SHALL BE IC RATED OR LOCATED AS SUCH THAT THE RECESSED PORTION IS A MINIMUM OF 30" AWAY FROM COMBUSTIBLE MATERIALS PER NEC 410.116.
11. ALL LIGHT SWITCHES SHALL BE INSTALLED TO COMPLY WITH NEC ARTICLE 404.8 "SWITCHES - ACCESSIBILITY AND GROUPING."
12. THE CONTRACTOR SHALL COORDINATE ALL RECESSED LIGHT FIXTURES WITH EQUIPMENT INSTALLED BY OTHER TRADES AS TO AVOID ANY CONFLICTS WITH OTHER SYSTEMS ABOVE FINISHED CEILING.

### UNIT PLAN NOTICES

1. ALL ELECTRICAL OUTLET BOXES LOCATED ON COMMON WALLS BETWEEN UNITS SHALL BE U.L. LISTED AND TESTED BOXES FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES AND ARE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS INCLUDED IN THE LISTING. OUTLET BOXES ON OPPOSITE SIDE OF WALL SHALL BE SEPARATED AS FOLLOWS
  - A. BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR
  - B. BY PROTECTION BOTH OUTLET BOXES WITH LISTED PUTTY PADS OR
  - C. BY USING U.L. LISTED TWO HOUR MINIMUM RATED PLASTIC BOXES WITH U.L. LISTED FIRE PADS.
2. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTAT AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 47", AND NO LOWER THAN 15" AFF. IF THE REACH IS OVER AN OBSTRUCTION, THE OBSTRUCTION SHALL NOT EXTEND MORE THAN 25" FROM WALL BENEATH A CONTROL.
3. ALL PENETRATIONS THRU FIRE RATED WALLS AND CEILINGS SHALL BE PROTECTED AS REQUIRED BY U.L. RATED SYSTEMS.
4. ALL UNITS OF ALL BUILDINGS SHALL CONFORM WITH ACCESSIBILITY GUIDELINES.
5. REFER TO ARCHITECTURAL PLANS FOR MINOR VARIATIONS IN FLOOR PLAN LAYOUT AND FIXTURE LOCATIONS.
6. CLOTHES WASHER SHALL ALWAYS BE TO THE LEFT OF THE CLOTHES DRYER. COORDINATE AT REVERSE PLANS, (TYPICAL).
7. ALL 120-VOLT, SINGLE PHASE, 15 & 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, DEN, BEDROOMS, SUNROOM, REC. ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY LISTED ARC-FAULT CURRENT INTERRUPTER COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
8. IN ALL AREAS SPECIFIED IN NEC 210.52 ALL 15 & 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.

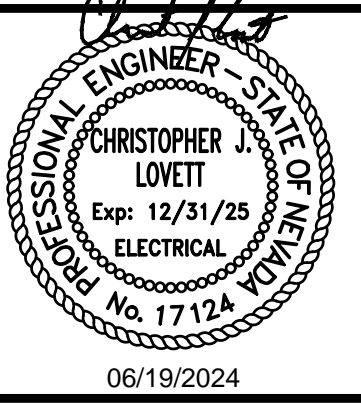
### POWER PLAN NOTICES

1. CONNECT CIRCUITING TO DEVICES IN AREA WITH SAME CIRCUIT NUMBERS. ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNO.
2. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
3. WHEN NECESSARY, ALL ELECTRIC METALLIC TUBING (EMT), RIGID NON-METALLIC CONDUIT, FLEXIBLE METALLIC CONDUITS, SEALTIGHT TYPE CONDUITS AND ALL OTHER CONDUITS THAT DO NOT CONTAIN A CODE SIZED GROUND WIRE SHALL HAVE A CODE SIZED BOND WIRE INSTALLED WITH THE CIRCUIT CONDUCTORS.
4. RECEPTACLES LOCATED WITHIN 6'-0" OF SINKS OR WATER SHALL BE CONNECTED EITHER TO A GROUND FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER OR TO A GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPT.
5. PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL HVAC UNITS AND SUPPLY AIR DUCT SMOKE DETECTORS WITH THE MECHANICAL DRAWINGS.
6. PROVIDE ROOF TOP WEATHERPROOF/WEATHER RESISTANT GFCI WITHIN 25'-0" OF ALL ROOF TOP HVAC EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 210.63 HEATING, AIR-CONDITIONING AND REFRIGERANT EQUIPMENT OUTLET. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THEIR RECEPTACLES IN THE FIELD REGARDLESS PLAN LAYOUT.
7. ALL DISCONNECTS SHALL BE OF THE HEAVY-DUTY TYPE OR PULL-OUT TYPES AND FUSED PER NAMEPLATE RATING OF THE HVAC UNIT OR MOTOR.
8. THE ELECTRICAL CONTRACTOR SHALL, PRIOR TO ROUGH-IN, FIELD VERIFY ALL HVAC VOLTAGES AND AMPERAGES AGAINST PLAN REQUIREMENTS. FAILURE TO VERIFY AND NOTIFY ENGINEER/ARCHITECT PRIOR TO ROUGH-IN SHALL INDICATE THAT THE ELECTRICAL CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.
9. THE ELECTRICAL CONTRACTOR SHALL ENSURE FINAL COORDINATION OF THE MANUFACTURER'S RECOMMENDED FUSE SIZE FOR HVAC EQUIPMENT WITH THE SIZE DISCONNECT PRIOR TO OR DURING ROUGH-IN. ADVISE ENGINEERING IF CHANGES IN THE FINAL SELECTION OF HVAC EQUIPMENT HAVE IMPACTED DISCONNECT, BREAKER, OR CONDUCTOR SIZE.
10. ALL DISCONNECTS SHALL BE OF THE HEAVY-DUTY TYPE OR PULL-OUT TYPES AND FUSED PER NAMEPLATE RATING OF THE HVAC UNIT OR MOTOR.
11. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND FIRE ALARM CONTRACTOR REGARDING SMOKE DUCT DETECTOR TO INCLUDE PURCHASE, INSTALLATION AND FINAL CONNECTIONS.
12. ALL DISCONNECTS SHALL BE OF THE HEAVY-DUTY TYPE OR PULL-OUT TYPES AND FUSED PER NAMEPLATE RATING OF THE HVAC UNIT OR MOTOR.
13. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER OR OTHER SUPPLIERS REGARDING ANY REQUIREMENTS FOR MOTOR STARTERS IN ADDITION TO THAT WHICH IS INDICATED FOR THE HVAC SYSTEM. THIS INCLUDES FURNISH AND INSTALL STARTERS TO INTERFACE WITH ANY ENERGY MANAGEMENT SYSTEM OR OTHER SPECIAL SYSTEMS.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE CORRECT SIZE/TYPE/VOLTAGE/QUANTITY OF DUAL-ELEMENT, TIME-DELAY FUSE(S) SIZED PER NAMEPLATE/MANUFACTURER DATA.
15. LOCATION OF ALL DEVICES AND OUTLETS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
16. VERIFY LOCATION OF ALL DEVICES AND OUTLETS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
17. ALL MULTIWIRED BRANCH CIRCUIT HOME RUNS SHALL BE INSTALLED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR.
18. THE CONTRACTOR SHALL READ AND COMPLY WITH ALL GENERAL NOTES, NOTICES, AND SHEET NOTES IN THIS DRAWING PACKAGE. NO CHANGE ORDERS SHALL BE ACCEPTED FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
19. THE CONTRACTOR SHALL INSTALL PULL STRING IN ALL EMPTY CONDUITS.
20. THE CONTRACTOR SHALL REVIEW ALL CONSULTANTS AND ARCHITECTURAL DRAWINGS PRIOR TO BID AND ISSUE PRE-BID RFI'S SHOULD DISCREPANCIES BE IDENTIFIED. NO CHANGE ORDERS WILL BE APPROVED SHOULD THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
21. THE WORD 'PROVIDE' MEANS TO FURNISH, INSTALL, CONNECT, TERMINATE, TEST, AND VERIFY THAT EQUIPMENT INSTALLED IS FUNCTIONING PROPERLY.
22. THE CONTRACTOR SHALL READ AND COMPLY WITH ALL GENERAL NOTES, NOTICES, AND SHEET NOTES IN THIS DRAWING PACKAGE. NO CHANGE ORDERS SHALL BE ACCEPTED FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
23. PRIOR TO BID, THE CONTRACTOR SHALL REVIEW THE PLANS AND CONTACT THE ENGINEER OF RECORD WITH ANY QUESTIONS REGARDING THE INFORMATION INDICATED WITHIN. PRESENT QUESTIONS IN THE FORM OF A PRE-BID RFI.
24. INCREASE WIRE SIZE WHERE NECESSARY TO MINIMIZE VOLTAGE DROP PER NEC 210.19.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**SNRHA BENNETT PLAZA PHASE II**  
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SHEET TITLE:  
**GENERAL NOTES**

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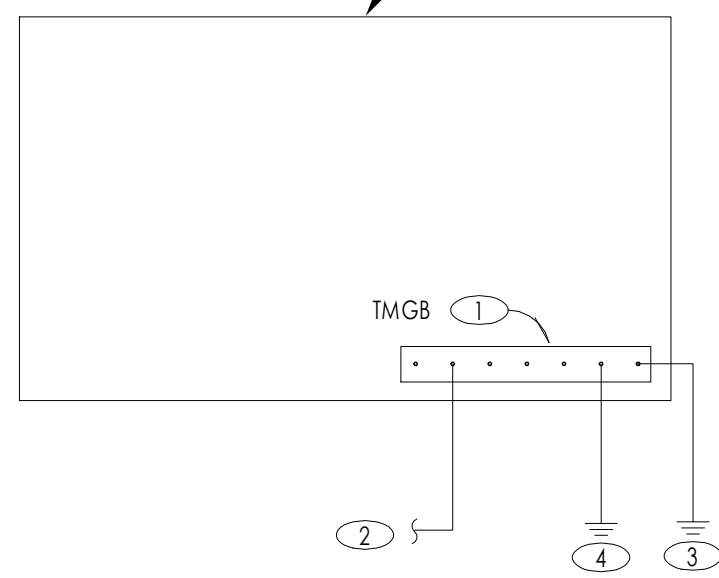
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**(R)EVOLUTION ENGINEERING**  
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LAS VEGAS, NV 89120  
702-514-3361

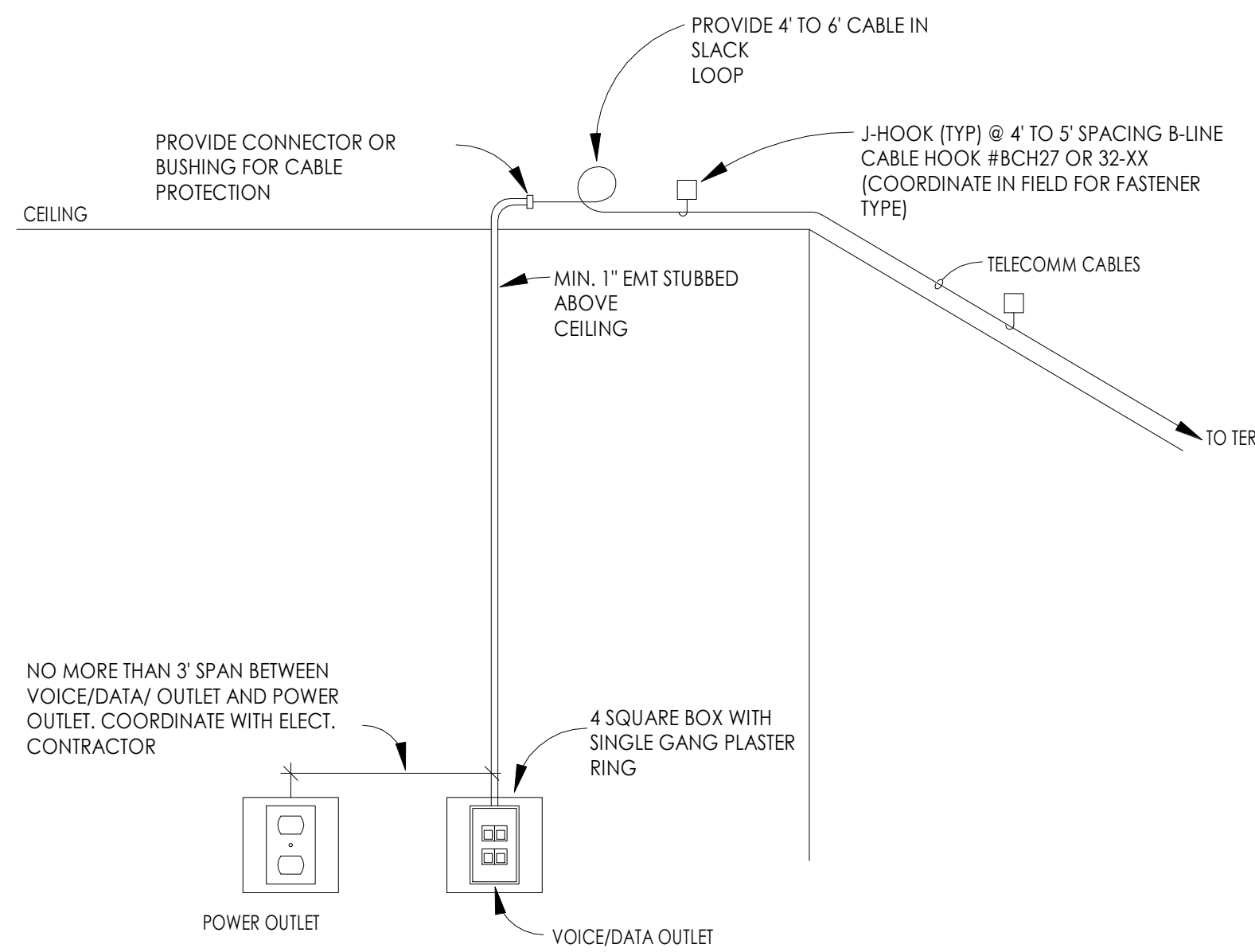


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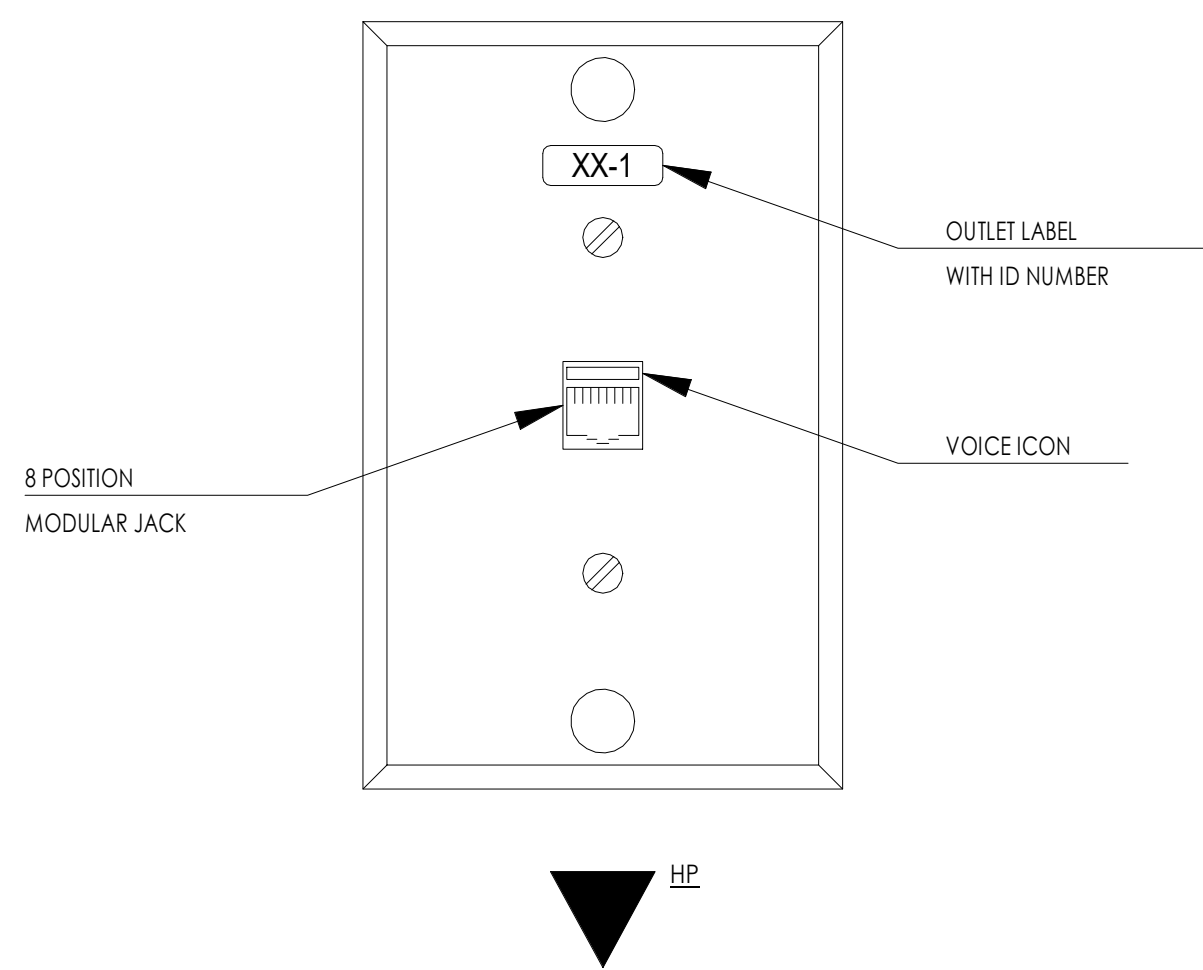
- ① PROVIDE MAIN GROUNDING BRIDGE, STANDARD NEMA BOLT HOLES.
- ② PROVIDE IRREVERSIBLE COMPRESSION-TYPE CONNECTOR OR EXOTHERMIC WELDING OF GROUNDING CONDUCTOR FROM TMGB TO MAIN ELECTRICAL SWITCHBOARD.
- ③ #6 AWG CU TO BUILDING STEEL.
- ④ #6 AWG CU TO EQUIPMENT RACKS AS REQUIRED.
- ⑤ PROVIDE 3/4"D X 8"H AND LENGTH PER PLANS, CLASS-A FIRE-RATED PLYWOOD BACKBOARD, PROVIDE PRE-DRILLED COPPER BUS BAR WITH STANDARD NEMA BOLT HOLES. REFER TO TELECOM DIAGRAM F/E003 FOR MORE INFORMATION.



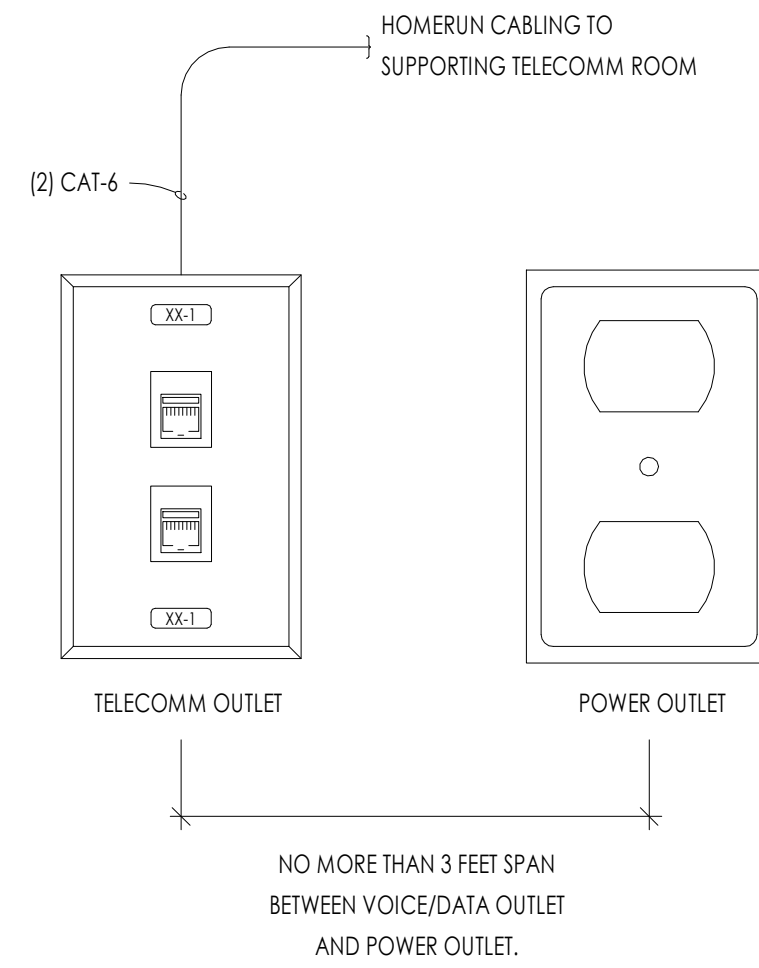
G GROUND CONNECTION (TMGB)  
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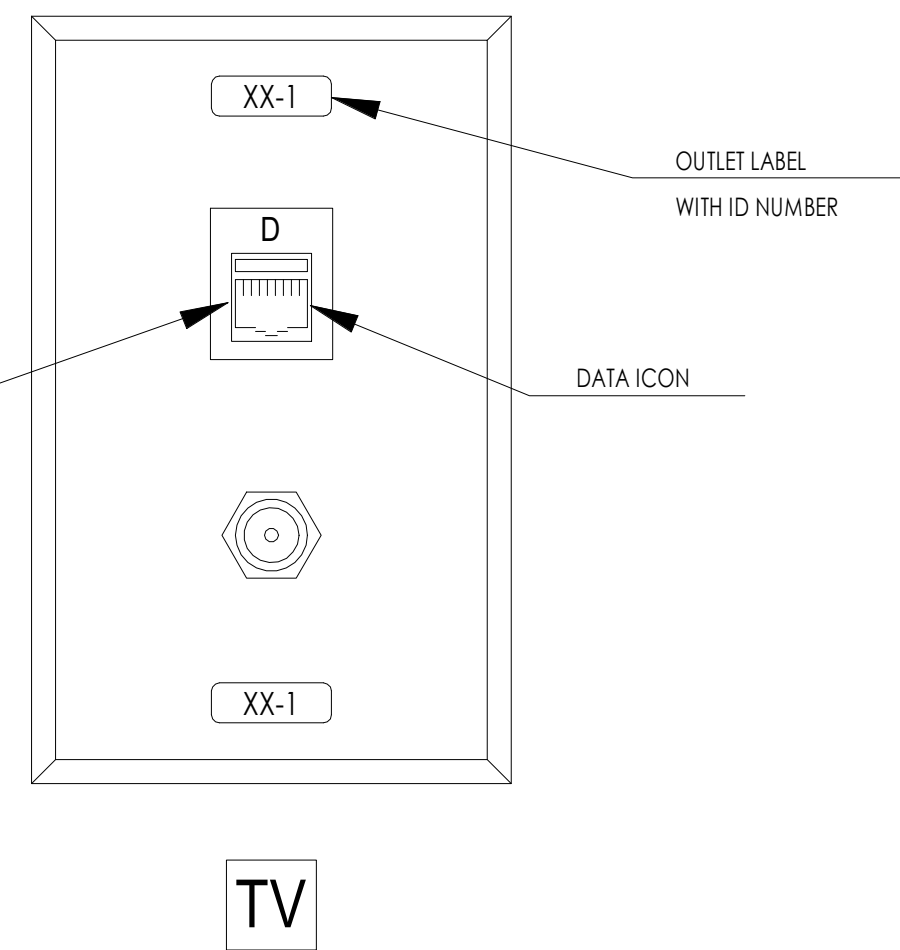
H TYPICAL VOICE/DATA PATHWAY  
E003 NOT TO SCALE



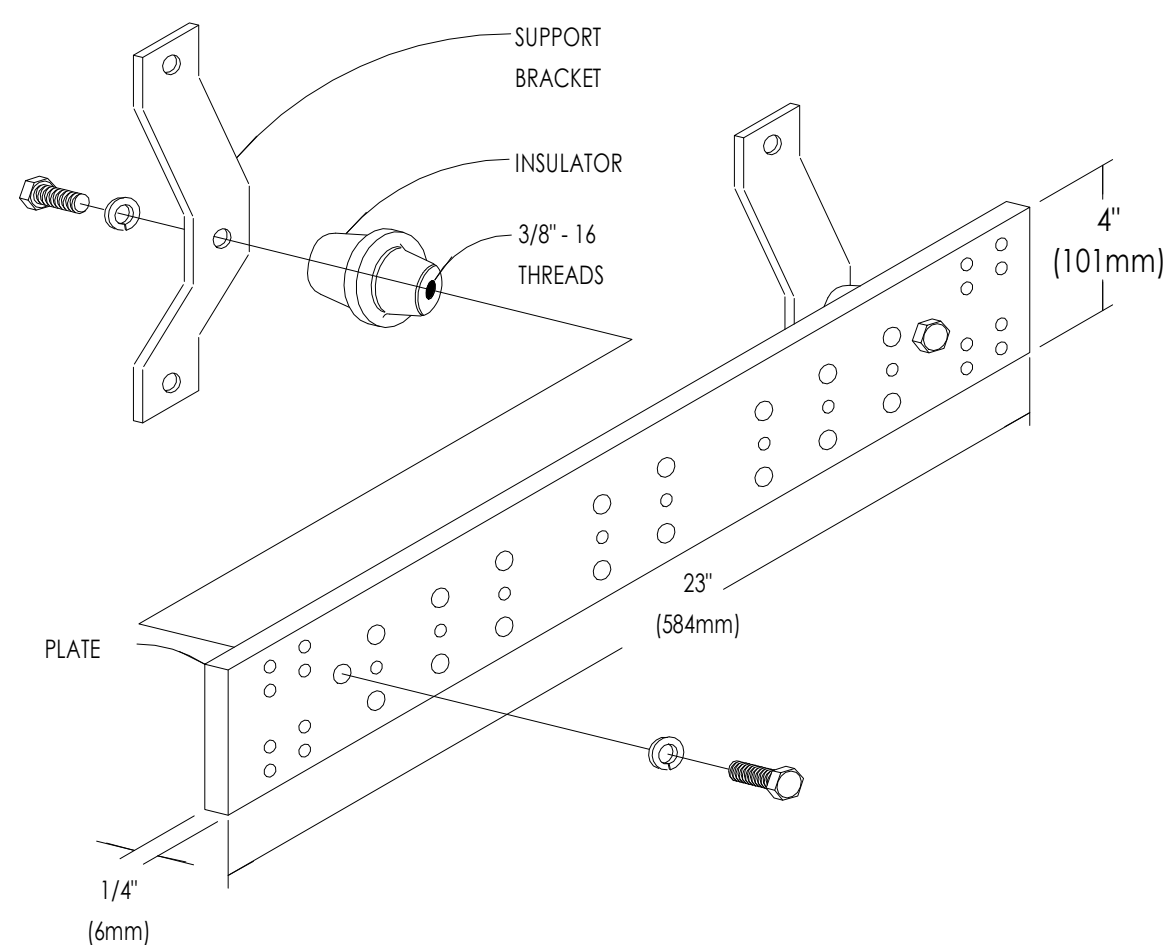
J 1-PORT OUTLET - HOUSE PHONE  
E003 NOT TO SCALE



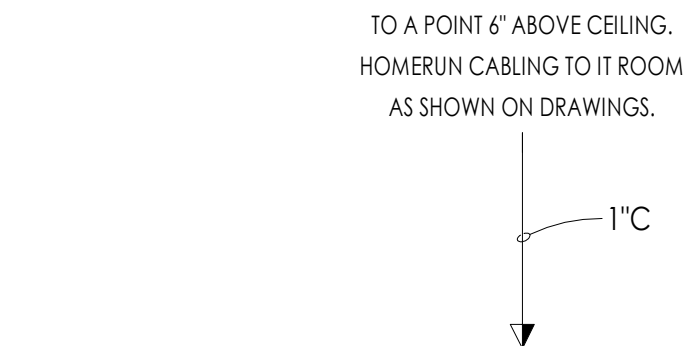
D TYPICAL VOICE/DATA OUTLET  
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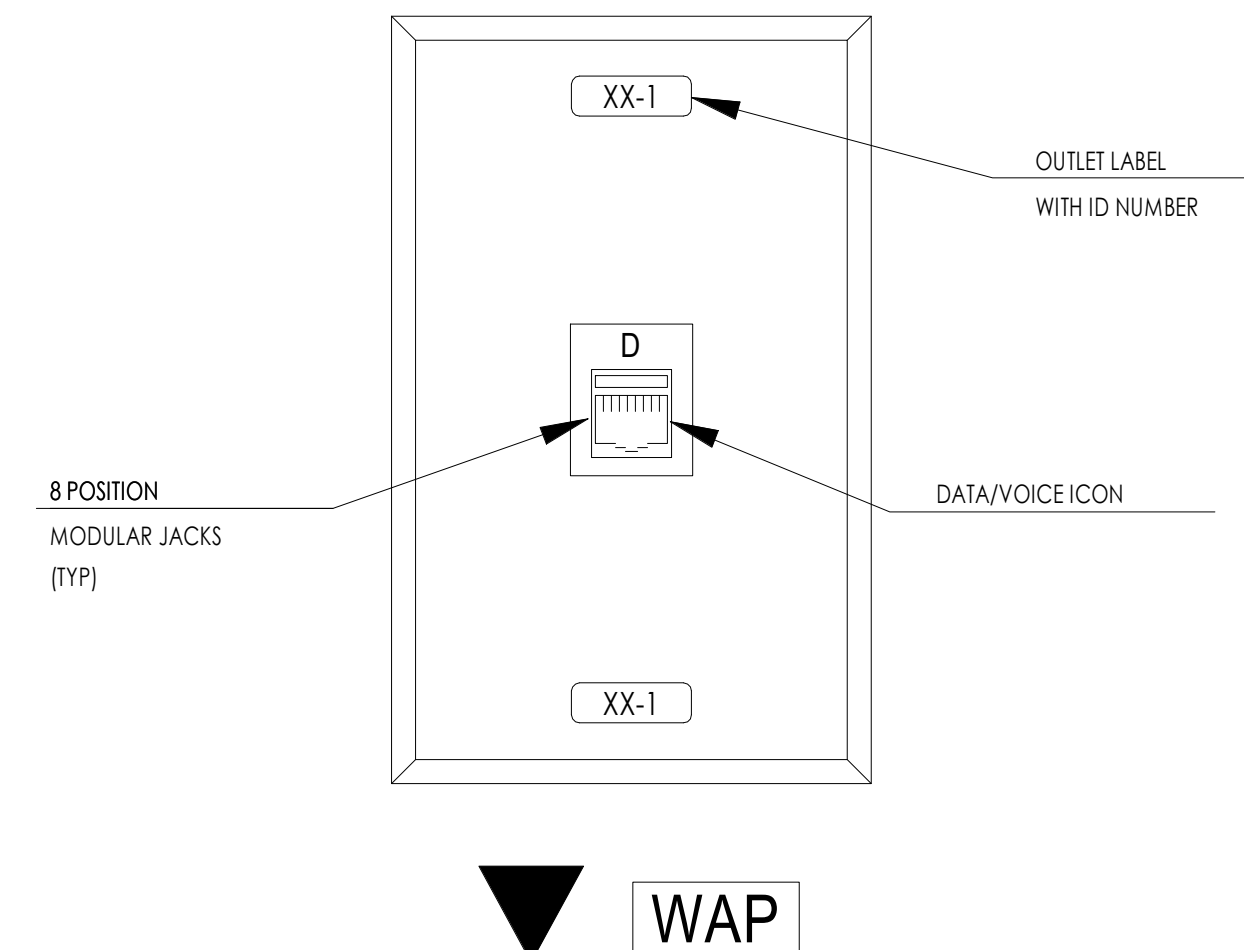
E 2-PORT DATA/TELEVISION OUTLET  
E003 NOT TO SCALE



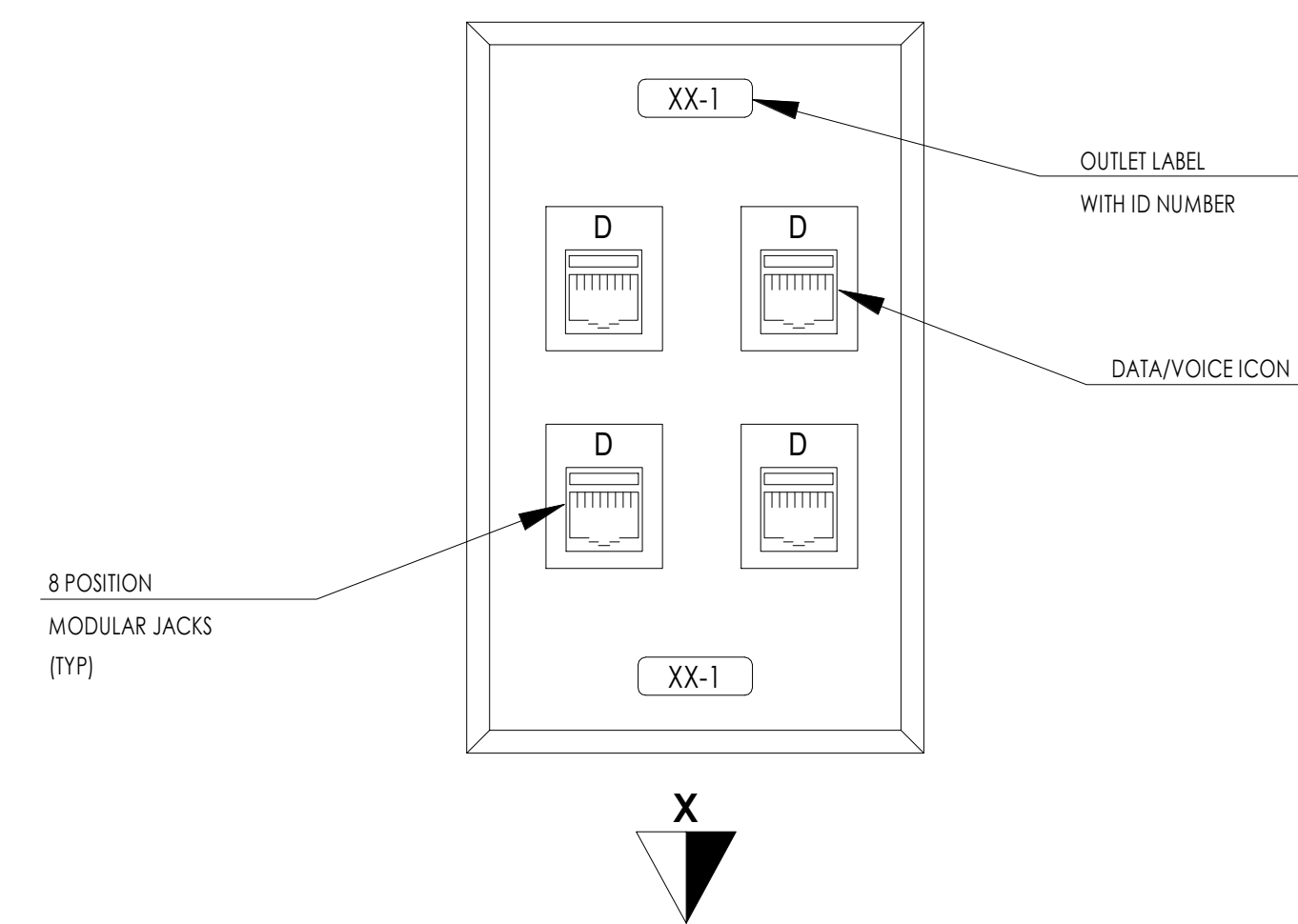
F GROUNDING BUSBAR (TMGB)  
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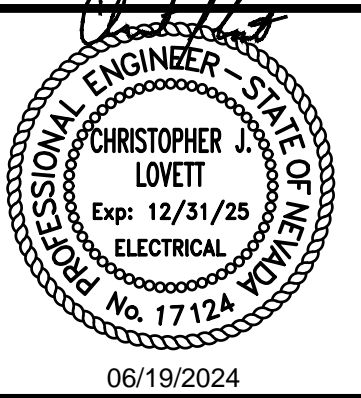
A TYPICAL CONDUIT DIAGRAM  
E003 NOT TO SCALE



B 1-PORT VOICE/DATA OUTLET  
E003 NOT TO SCALE



C 4-PORT VOICE/DATA OUTLET  
E003 NOT TO SCALE



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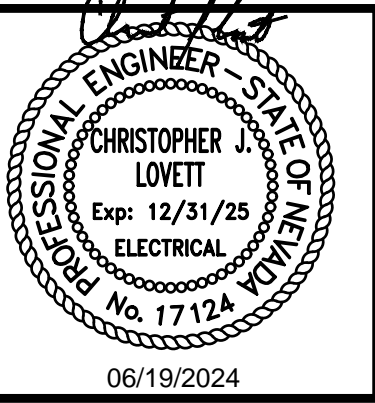
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SHEET TITLE: ELECTRICAL DIAGRAMS

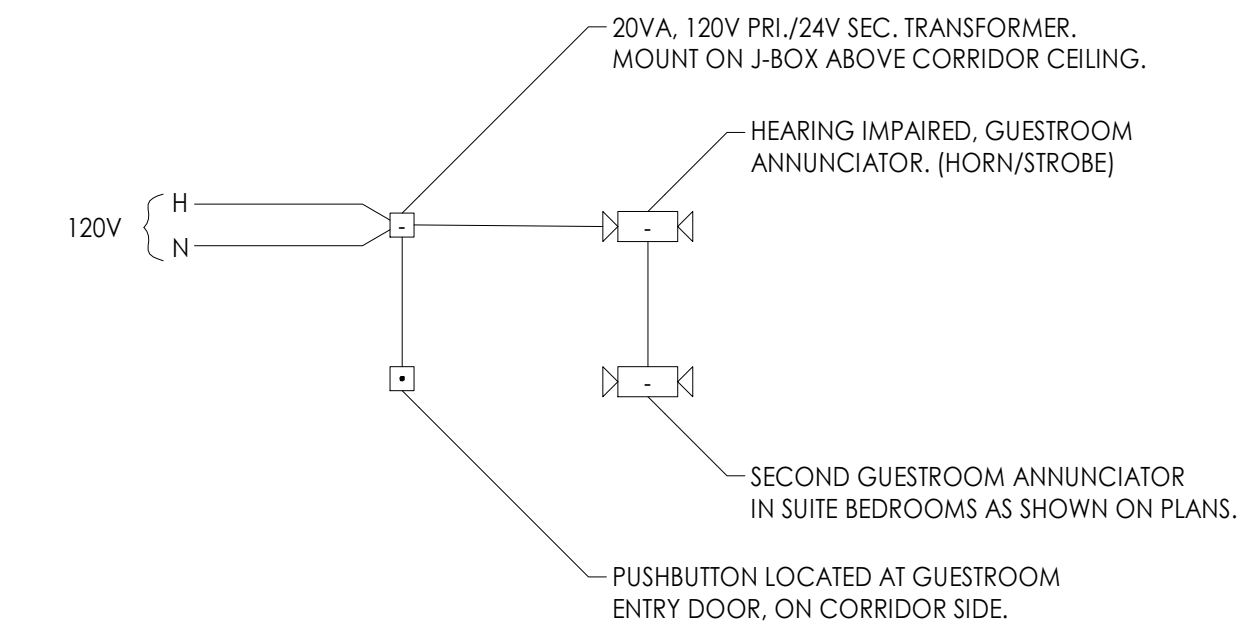
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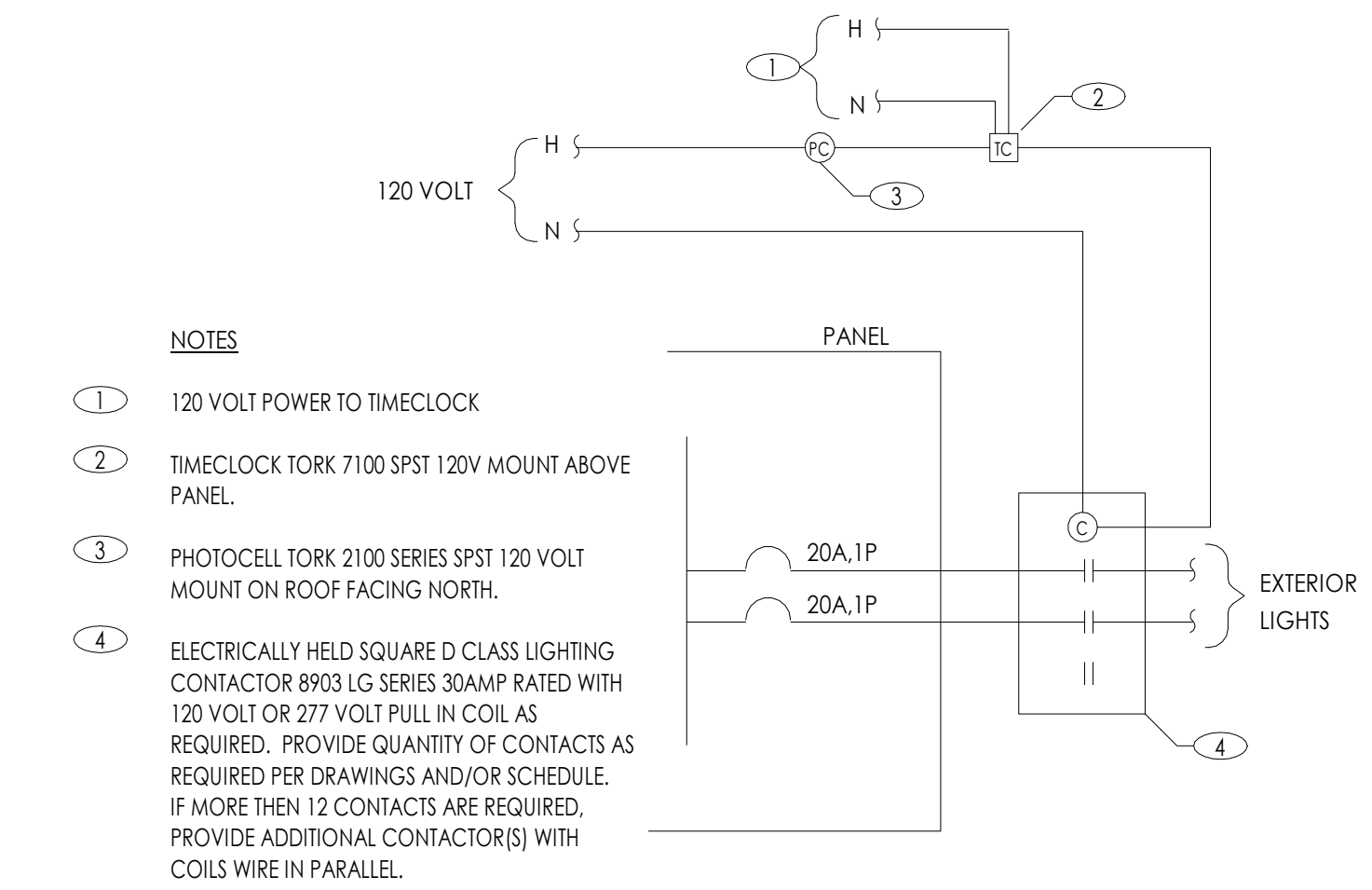
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### A HEARING IMPAIRED DOORBELL WIRING DIAGRAM

E004 NO SCALE

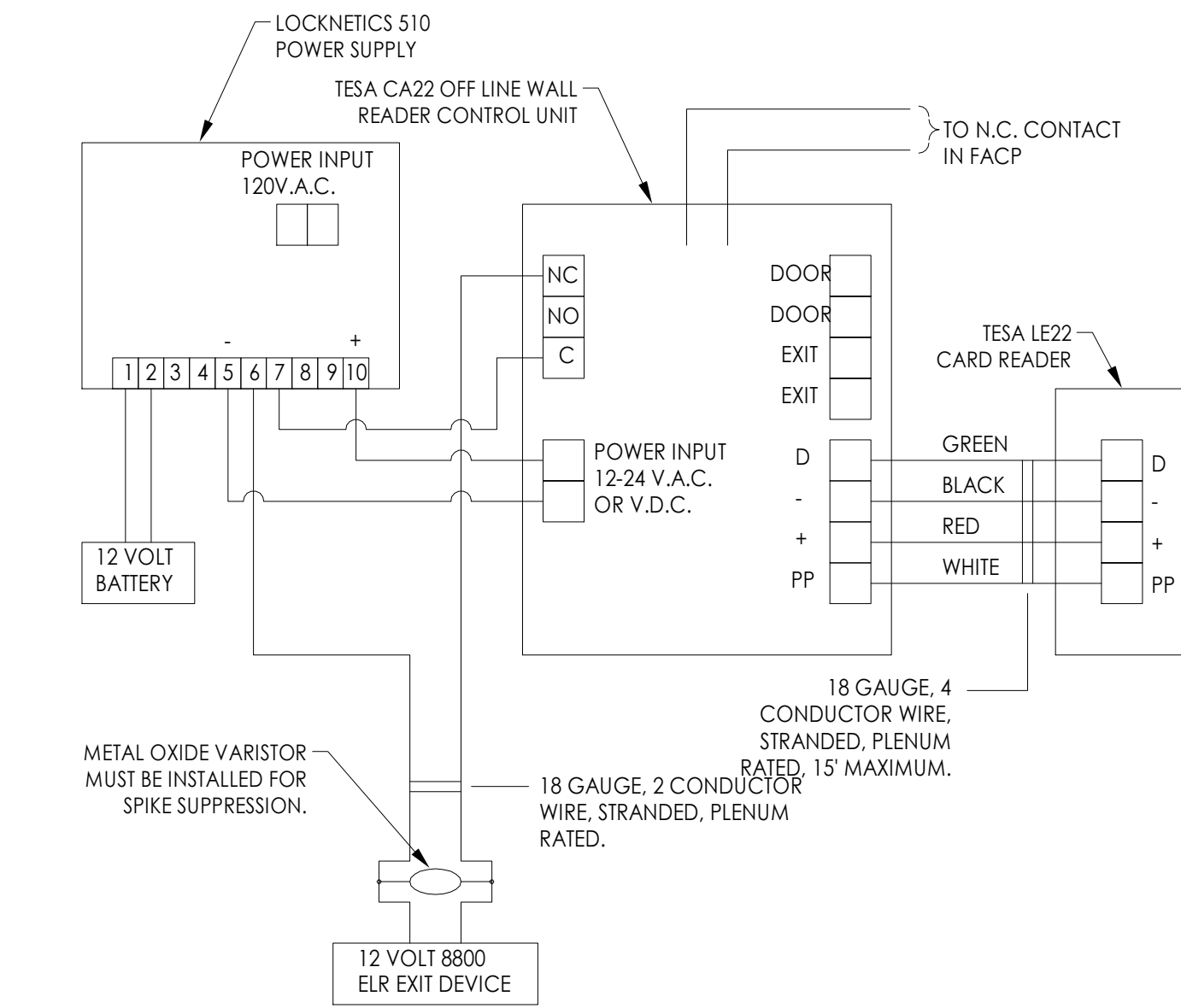


### B EXTERIOR LIGHTING CONTROL DIAGRAM

E004 NO SCALE

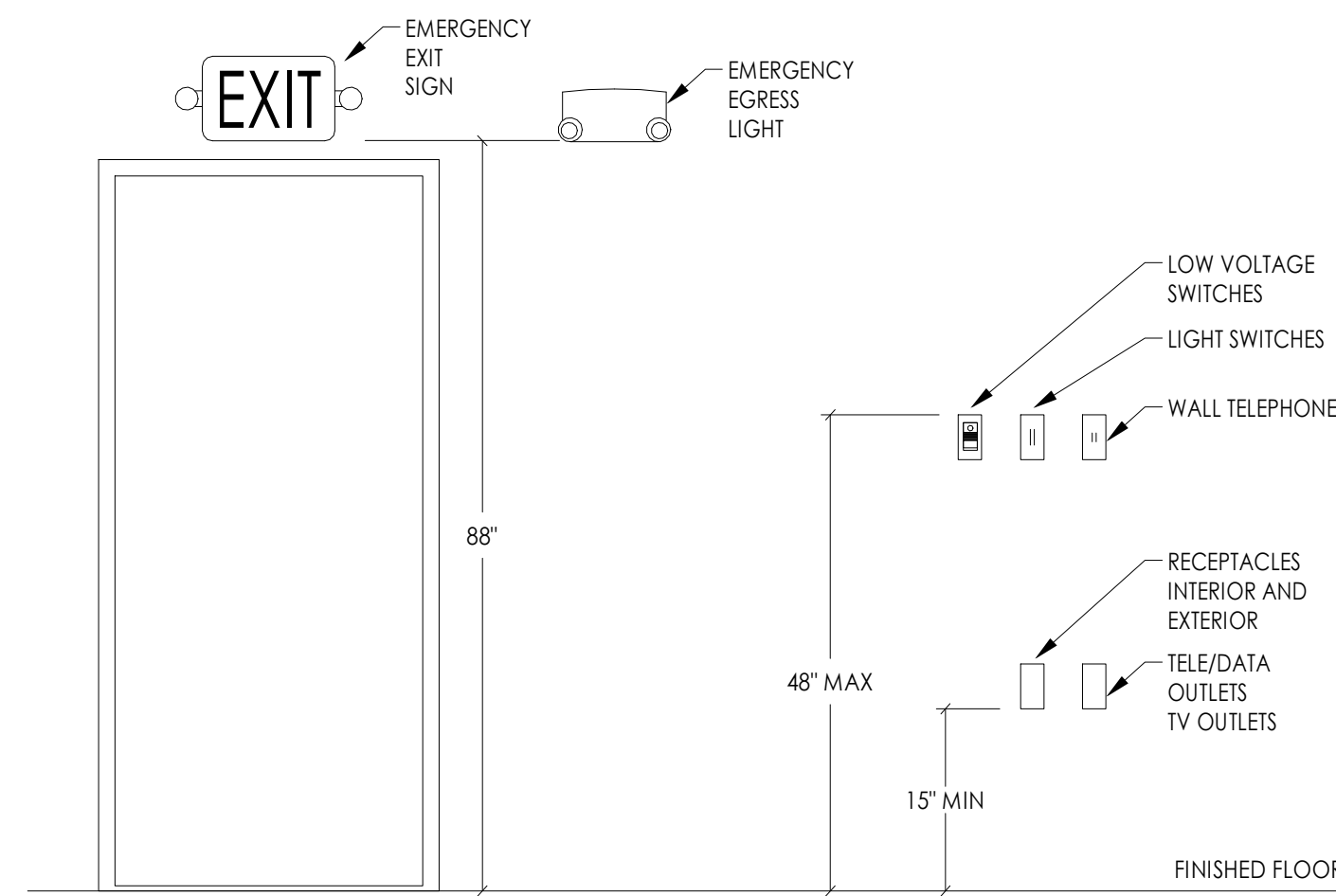
#### REMARKS

- FIELD VERIFY ALL REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- SHALL COMPLY WITH CBC SECTION 1010.1.4.2.



### C CARD READER WIRING DIAGRAM

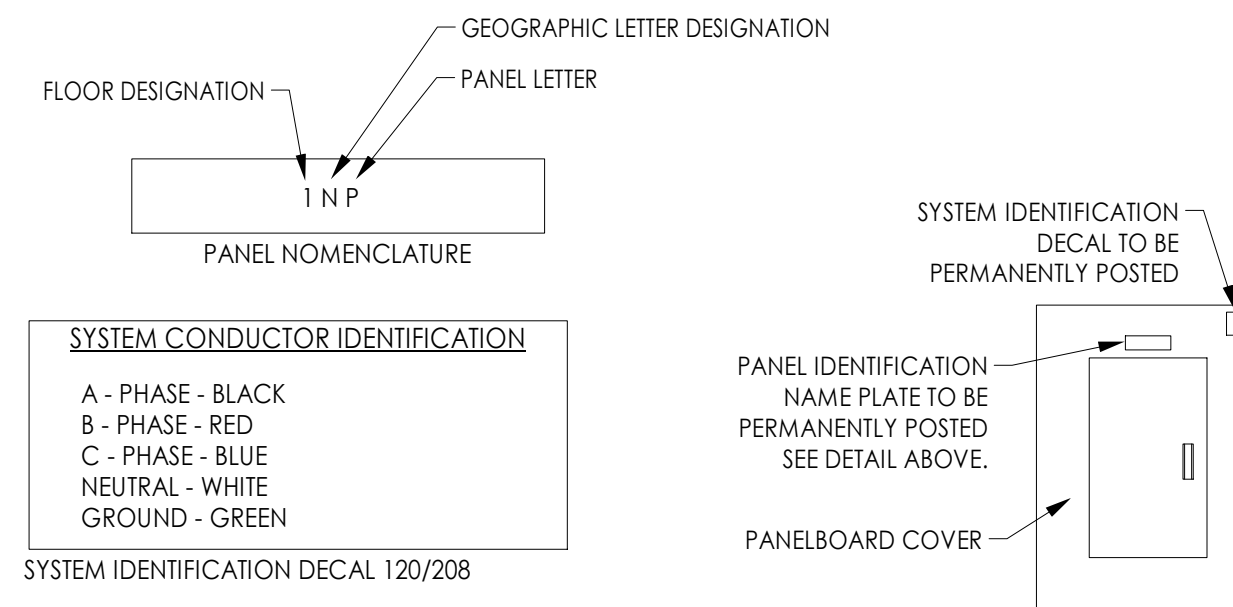
E004 NO SCALE



NOTE: THESE MOUNTING HEIGHTS ARE TYPICAL UNLESS NOTED OTHERWISE ON THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DEVICE MOUNTING HEIGHTS IN GUEST ROOMS.

### G TYPICAL DEVICE MOUNTING HEIGHT DIAGRAM

E004 NO SCALE

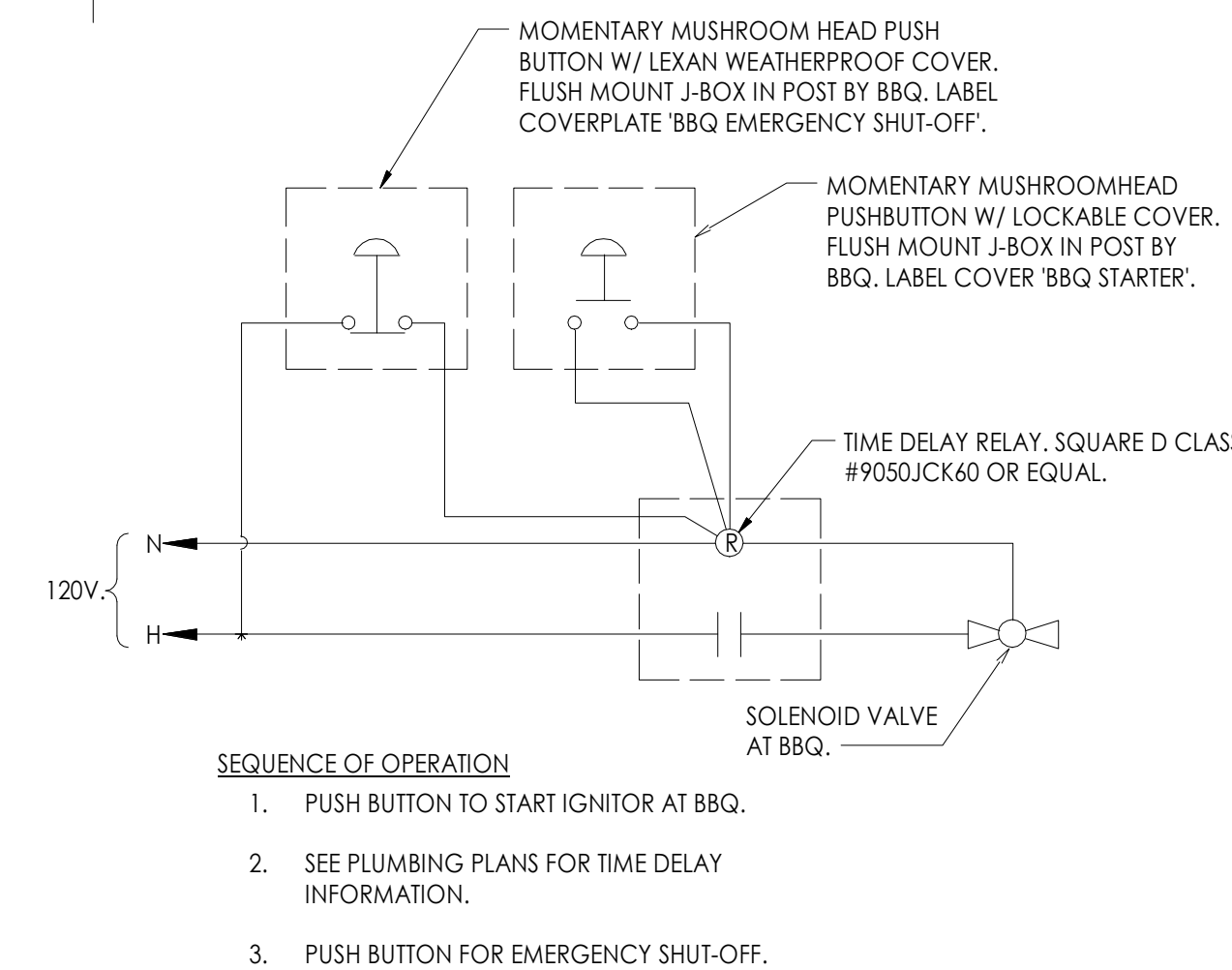


#### NOTES:

- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL PHENOLIC NOMENCLATURE NAME PLATES ON ALL ELECTRICAL PANELS. NAME PLATES SHALL BE 1 1/4" x 4" W WITH 1/2" LETTERING, ENGRAVED LAMINATED PLATE. FURNISHED WHITE LETTERING ON A BLACK BACKGROUND.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SYSTEM CONDUCTOR IDENTIFICATION DECAL ON EACH PANEL. DECAL SHALL BE 2" x 3" W WITH 1/8" LETTERING AS SHOWN ABOVE. DECAL SHALL BE WHITE BACKGROUND WITH BLACK LETTERING WITH A CLEAR PLASTIC LAMINATE TOP COVER OVER DECAL.

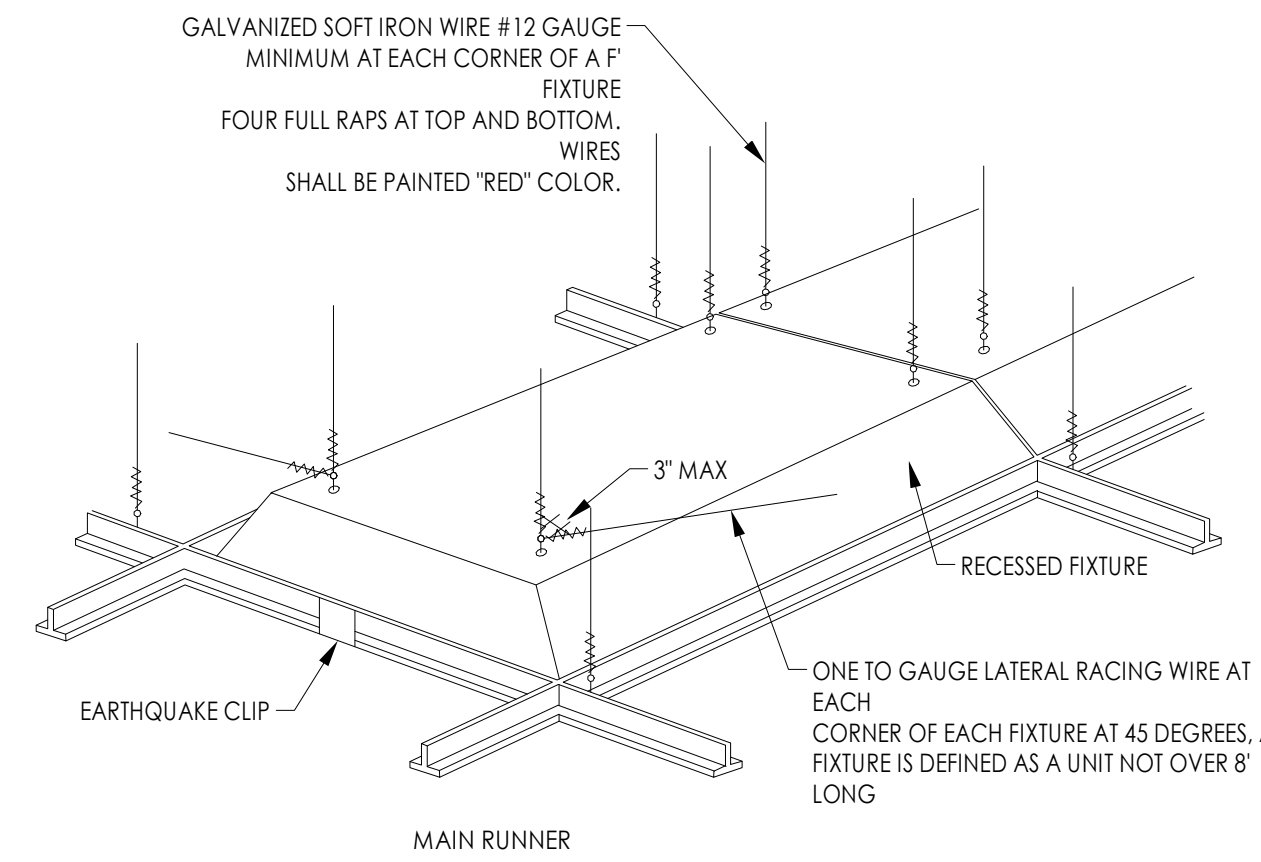
### H SYSTEM IDENTIFICATION DIAGRAM

E004 NO SCALE



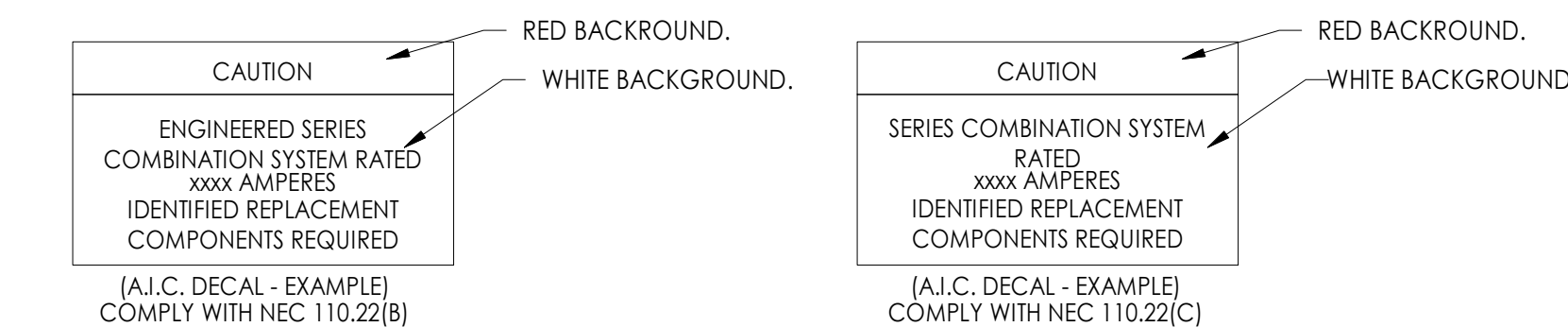
### J BBQ IGNITOR SWITCH DETAIL

E004 NO SCALE



### D 2x2 - 2x4 RECESSED LIGHT MOUNTING DIAGRAM

E004 NOT TO SCALE

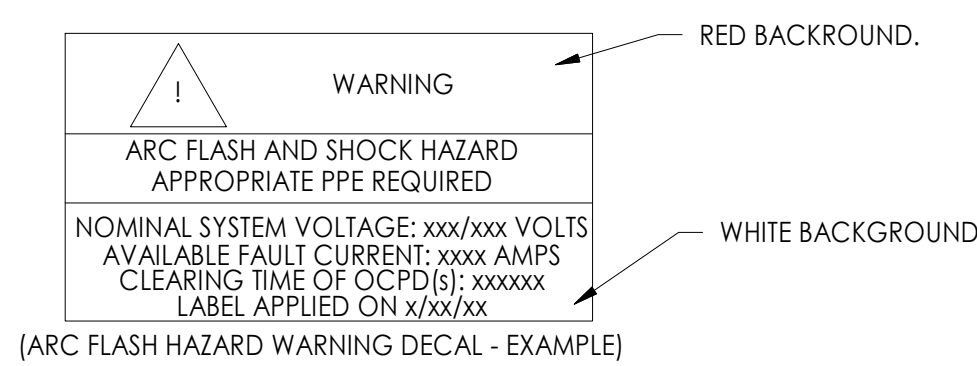


#### NOTE:

- CONTRACTOR SHALL PROVIDE DECAL 1-1/2" x 2-1/2" WITH 3/16" LETTERING STATING THE A.I.C. RATING OF EACH PANEL AND WHETHER THE PANEL IS FULLY OR SERIES RATED. THIS DECAL SHALL BE LOCATED ON THE INSIDE OF PANEL DOOR. DECAL SHALL BE WHITE BACKGROUND WITH BLACK LETTERING WITH A CLEAR PLASTIC LAMINATE TOP COVER OVER DECAL.

### E A.I.C. IDENTIFICATION DECAL

E004



#### NOTE:

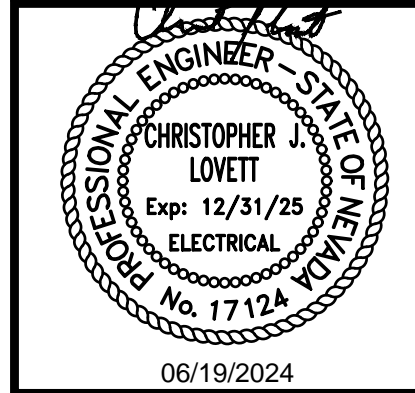
- CONTRACTOR SHALL PROVIDE DECAL 1-1/2" x 2-1/2" WITH 3/16" LETTERING STATING THE ABOVE. DECAL SHALL BE LOCATED ON THE OUTSIDE OF ALL SWITCHBOARDS AND PANEL BOARDS IN OTHER THAN DWELLING OCCUPANCIES. DECAL SHALL BE RED AND WHITE BACKGROUND WITH BLACK LETTERING WITH A CLEAR PLASTIC LAMINATE TOP COVER OVER DECAL.

### F ARC-FLASH HAZARD DECAL

E004 NO SCALE

FIXTURE TYPE	MANUFACTURER	MANUFACTURER MODEL	VOLT AMPS	MOUNTING	LAMP TYPE	REMARKS	VOLTAGE
A1E	METALUX	24CZ-LD5-45-UNV-L840-CD1-U	36 VA	RECESSED	LED		120
B1	HALO	HC6-30-D010-HM6-3040-840-61-MD-H	28 VA	RECESSED	LED		120
B1E	HALO	HC6-30-D010-REM7-HM6-3040-840-61-MD-H	28 VA	RECESSED	LED		120
C1E	METALUX	4AWS-L3C3-CA-UNV-4000K-EL7W	38 VA	SURFACE	LED		120
D1	METALUX	4AWS-L3C3-UNV-4000K	38 VA	SURFACE	LED		120
D1E	METALUX	4AWS-L3C3-UNV-4000K-EL7W	38 VA	SURFACE	LED		120
EP	MAXLITE	LS-V-2-U-35-40-EM	35 VA	SURFACE	LED	COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER PRIOR TO ROUGH-IN.	120
F1	PER ARCHITECT	PER ARCHITECT	30 VA	SURFACE	LED	PER ARCHITECT	120
F2	METALUX	4SNLED-LD5-30SL-LW-UNV-L830	30 VA	SURFACE	LED		120
F2E	METALUX	4SNLED-LD5-30SL-LW-UNV-L830-EL7W	30 VA	SURFACE	LED		120
L1	HALO	SMD6R-12-95-WH	15 VA	RECESSED	LED		120
L2	METALUX	4AWS-L3C3-CA-UNV-4000K	38 VA	SURFACE	LED		120
L3	HALO	FM89S1EWHR	10 VA	SURFACE	LED		120
L4	PER ARCHITECT	PER ARCHITECT	0 VA	WALL	LED	PER ARCHITECT	120
L5	PER ARCHITECT	PER ARCHITECT	20 VA	WALL	LED	PER ARCHITECT	120
L6	PER ARCHITECT	PER ARCHITECT	30 VA	SURFACE	LED	PER ARCHITECT	120
L7	PER ARCHITECT	PER ARCHITECT	30 VA	SURFACE	LED	PER ARCHITECT	120
S1	HUBBELL LIGHTING	ASL1-80L50-4K7-3-UNV-ASQU-DBT	200 VA	POLE	LED	SINGLE HEAD POLE LIGHT AT 16'-0" AFF. PROVIDE WITH HOUSE-SIDE SHIELD.	120/277
SD	HALO	WXP540UNVDBZ	30 VA	WALL	LED	WALL PACK. VERIFY MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL DRAWINGS.	120/277
X1	SURE-LITES	APXH7-G	5 VA	SURFACE	LED	SINGLE SIDED EXIT SIGN	120/277
X2	SURE-LITES	APXH7-G	5 VA	SURFACE	LED	DOUBLE SIDED EXIT SIGN	120/277

**KME ARCHITECTS**  
 5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
 Fax: 702.888.2089  
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### COMcheck Software Version COMcheckWeb Exterior Lighting Compliance Certificate

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title: Marion Bennett  
 Project Type: New Construction  
 Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site: 1818 Balazar Avenue, Las Vegas, Nevada 89106  
 Owner/Agent: Nevada  
 Designer/Contractor: Christopher Lovett, Revolution Engineering, 3590 E. Patrick Lane, Las Vegas, Nevada 89120, 7025950515, chris@revolutionmep.com

**Allowed Exterior Lighting Power**

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	20000 R2	0.04	Yes	800
		Total Tradable Watts (a) = 800		
		Total Allowed Watts = 800		
		Total Allowed Supplemental Watts (b) = 400		

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.  
 (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

**Proposed Exterior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)	E
Parking area (20000 ft2): Tradable Wattage				
LED: S1: LED Roadway-Parking Unit 220W:	1	5	200	1000
LED: SD: LED Other Fixture Unit 40W:				150
				Total Tradable Proposed Watts = 1150

Exterior Lighting PASSES: Design 4% better than code

**Exterior Lighting Compliance Statement**  
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Project Title: Marion Bennett Report date: 05/09/24  
 Data filename: Page 2 of 6

### NOTICE

- A. REFER TO ARCHITECTURAL SHEETS G0.06, G0.07, AND G0.08 FOR ALL IECC REQUIREMENTS.

### COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title: Marion Bennett  
 Project Type: New Construction

Construction Site: 1818 Balazar Avenue, Las Vegas, Nevada 89106  
 Owner/Agent: Nevada  
 Designer/Contractor: Christopher Lovett, Revolution Engineering, 3590 E. Patrick Lane, Las Vegas, Nevada 89120, 7025950515, chris@revolutionmep.com

**Additional Efficiency Package(s)**

Credits: 1.0 Required 1.0 Proposed  
 Reduced Lighting Power, 1.0 credit

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Multifamily	21144	0.61	12940
		Total Allowed Watts = 12940	

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)	E
1-Multifamily				
LED: A1E: LED Panel 36W:	1	51	36	1836
LED: B1/B1E: LED A Lamp 25W:	1	93	28	2604
LED: C1E: LED Panel 38W:	1	18	38	684
LED: D1/D1E: LED Panel 38W:	1	22	38	836
				Total Proposed Watts = 5960

Interior Lighting PASSES: Design 34% better than code

**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Project Title: Marion Bennett Report date: 05/09/24  
 Data filename: Page 1 of 6

PROJECT: SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE: IECC AND LIGHT FIXTURE SCHEDULE

**PERMIT**

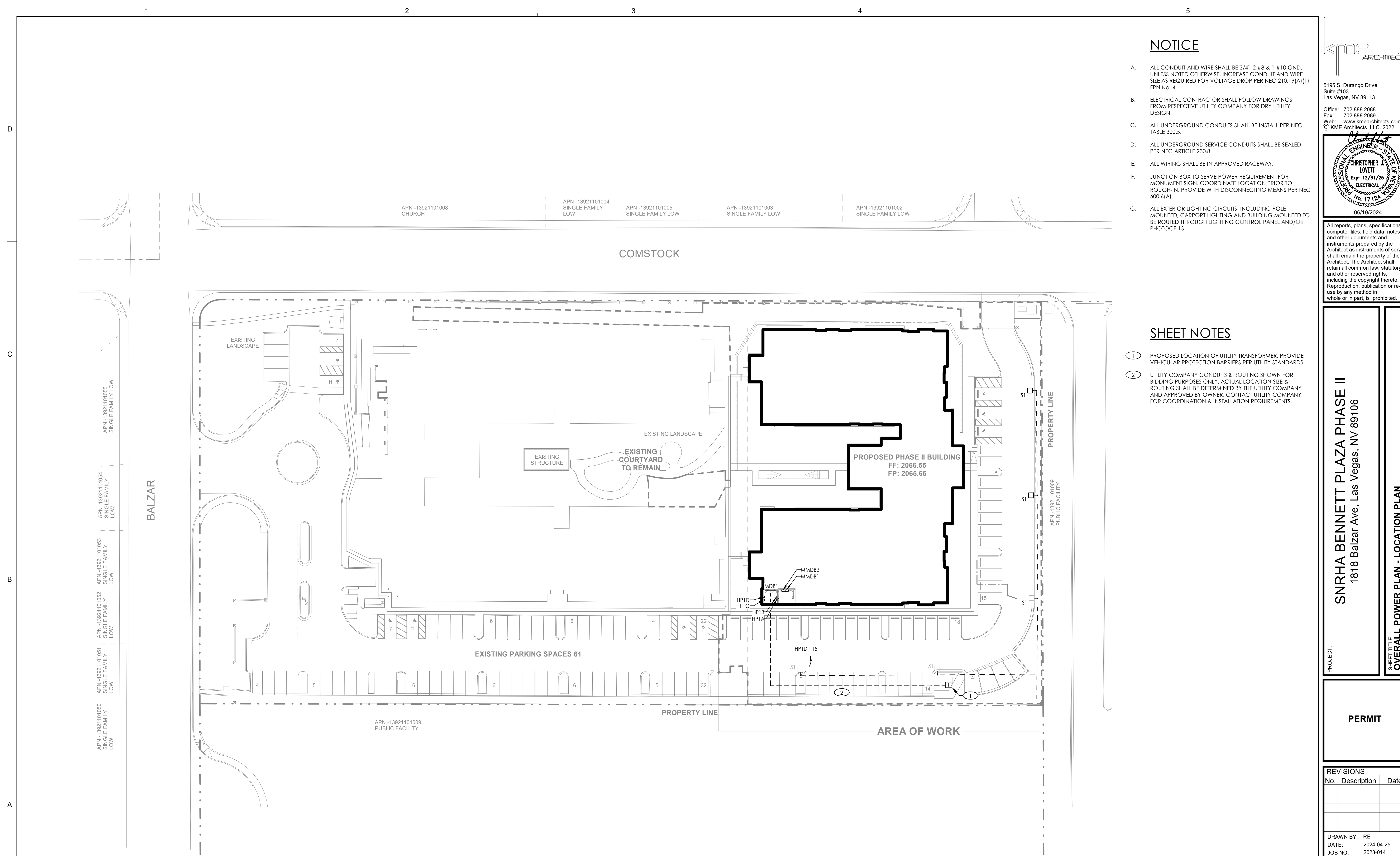
**REVISIONS**

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: RE  
 DATE: 2024-04-25  
 JOB NO: 2023-014  
 SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

SHEET  
**E0.10**

**(R)EVOLUTION ENGINEERING**  
 3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3361

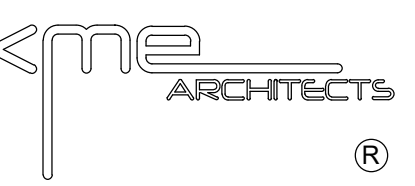


**NOTICE**

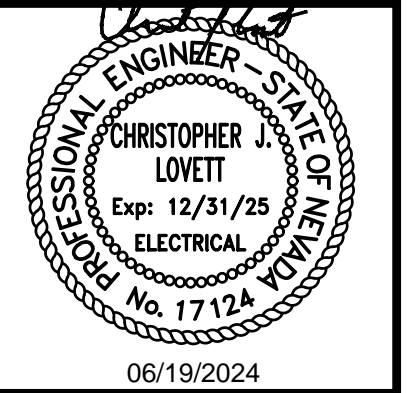
- A. ALL CONDUIT AND WIRE SHALL BE 3/4"-2 #8 & 1 #10 GND. UNLESS NOTED OTHERWISE. INCREASE CONDUIT AND WIRE SIZE AS REQUIRED FOR VOLTAGE DROP PER NEC 210.19(A)(1) FPN No. 4.
- B. ELECTRICAL CONTRACTOR SHALL FOLLOW DRAWINGS FROM RESPECTIVE UTILITY COMPANY FOR DRY UTILITY DESIGN.
- C. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED PER NEC TABLE 300.5.
- D. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER NEC ARTICLE 230.8.
- E. ALL WIRING SHALL BE IN APPROVED RACEWAY.
- F. JUNCTION BOX TO SERVE POWER REQUIREMENT FOR MONUMENT SIGN. COORDINATE LOCATION PRIOR TO ROUGH-IN. PROVIDE WITH DISCONNECTING MEANS PER NEC 600.6(A).
- G. ALL EXTERIOR LIGHTING CIRCUITS, INCLUDING POLE MOUNTED, CARPORT LIGHTING AND BUILDING MOUNTED TO BE ROUTED THROUGH LIGHTING CONTROL PANEL AND/OR PHOTOCELLS.

**SHEET NOTES**

- ① PROPOSED LOCATION OF UTILITY TRANSFORMER. PROVIDE VEHICULAR PROTECTION BARRIERS PER UTILITY STANDARDS.
- ② UTILITY COMPANY CONDUITS & ROUTING SHOWN FOR BIDDING PURPOSES ONLY. ACTUAL LOCATION SIZE & ROUTING SHALL BE DETERMINED BY THE UTILITY COMPANY AND APPROVED BY OWNER. CONTACT UTILITY COMPANY FOR COORDINATION & INSTALLATION REQUIREMENTS.



5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
 OVERALL POWER PLAN - LOCATION PLAN

**PERMIT**

REVISIONS		
No.	Description	Date

DRAWN BY: RE  
 DATE: 2024-04-25  
 JOB NO: 2023-014  
 SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

**SHEET**  
 E1.00

**1** OVERALL POWER PLAN - LOCATION PLAN  
 SCALE: 1" = 30'-0"

**(R)EVOLUTION ENGINEERING**  
 3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3361

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Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
□	S1	5	EXO	ASL1-80L-50-4K7-3-BC	AIRRO MICROSTRIKE	B-70-CRI	1	ASL1-80L-50-4K7-3-BC.lvs	4370	1	49.8

Description	Symbol	Avg	Max	Min	MaxMin	AvgMin
PROPERTY LINE	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
SITE	+	1.0 fc	3.0 fc	0.0 fc	N/A	N/A

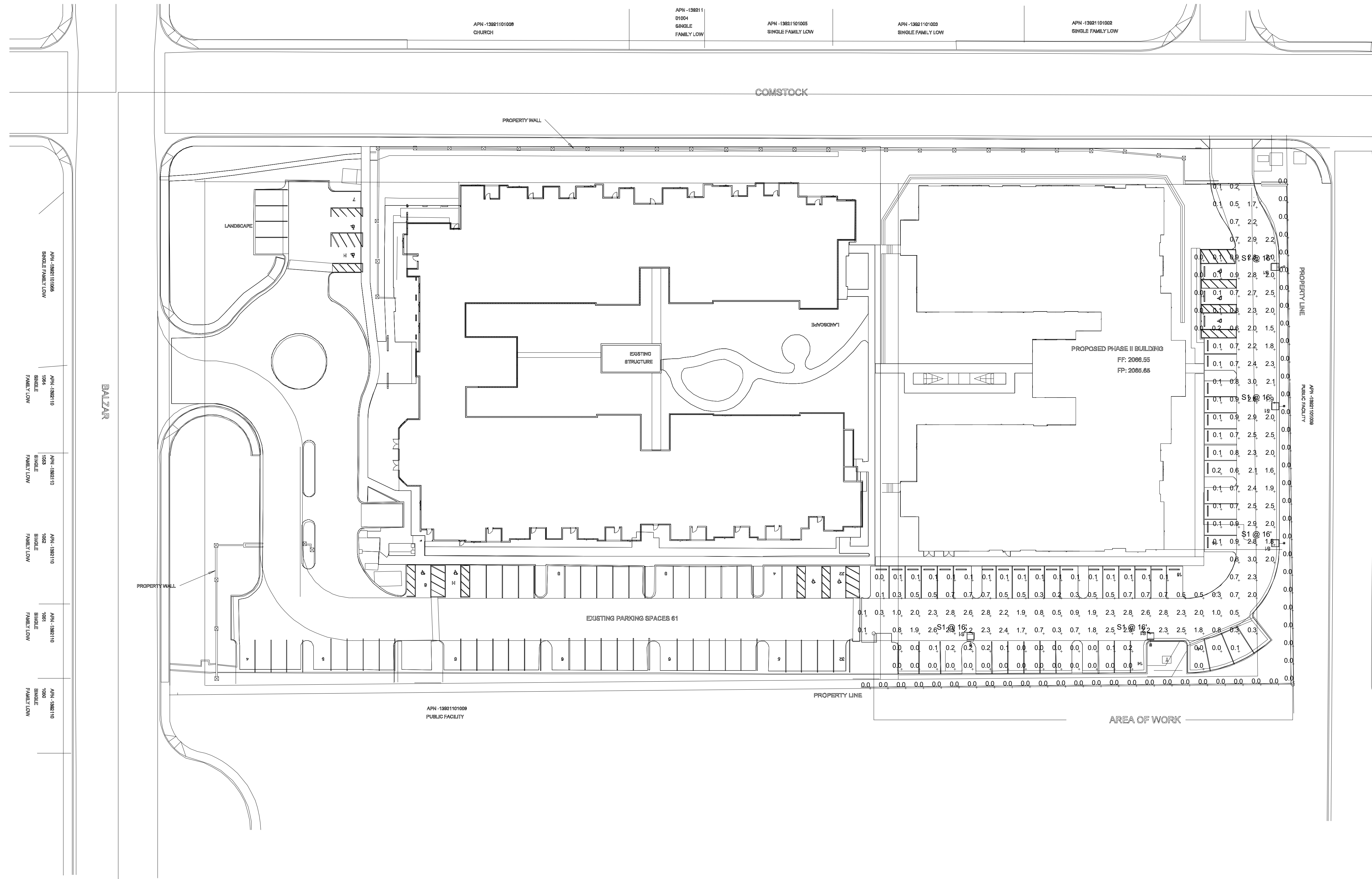
Scale - 1" = 30ft  
Plan View

APN - 13821101008  
R1004  
SINGLE FAMILY LOW

APN - 13821101005  
SINGLE FAMILY LOW

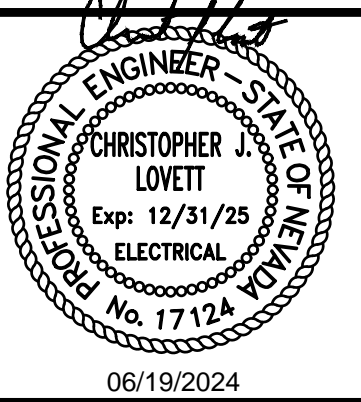
APN - 13821101003  
SINGLE FAMILY LOW

APN - 13821101002  
SINGLE FAMILY LOW



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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
**OVERALL PHOTOMETRIC PLAN - SITE**

PERMIT

REVISIONS

No.	Description	Date

DRAWN BY: RE  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

SHEET

E.1.10

1 SITE PHOTOMETRIC  
NTS

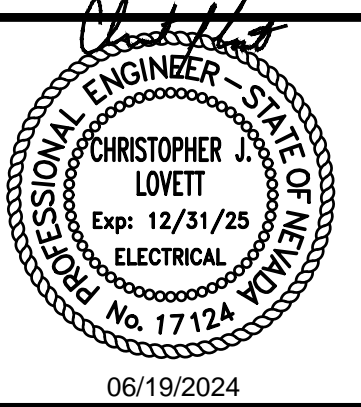
**(R)EVOLUTION ENGINEERING**  
3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361

### SHEET NOTES

- 1 CONNECT CIRCUITING TO DEVICES IN AREA WITH SAME CIRCUIT NUMBERS. ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNO.
- 2 RECEPTACLE FOR ELEVATOR SUMP PUMP. COORDINATE LOCATION PRIOR TO ROUGH-IN.
- 3 ELEVATOR PIT AND HOISTWAY RECEPTACLES AND LIGHTING AT TOP AND BOTTOM OF SHAFT. VERIFY LOCATION WITH ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN.
- 4 JUNCTION BOX TO SERVE CONNECTION BETWEEN ELEVATOR AND FACP. PROVIDE 3/4" CONDUIT FOR CONTROL WIRING.
- 5 PROVIDE CONNECTION TO AUTOMATIC DOOR OPENER. VERIFY ALL WIRING AND CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- 6 PROVIDE 3/4"x8"x8" AC PLYWOOD BACKBOARD WITH TWO COATS OF FIRE RETARDANT PAINT. PROVIDE PRE-DRILLED COPPER BUS BAR WITH STANDARD NEMA BOLT HOLES. REFER TO TELECOM DIAGRAMS SHEET E0.02 FOR ADDITIONAL DETAILS.
- 7 PROVIDE SWITCH, LIGHT, AND RECEPTACLE IN CEILING WITHIN SITE OF MECHANICAL EQUIPMENT. MOUNT SWITCH ADJACENT TO ACCESS PANEL. MOUNT RECEPTACLE AND LIGHT ADJACENT TO EQUIPMENT.
- 8 PROVIDE CIRCUIT FOR ASTRONOMICAL TIMECLOCK FOR LIGHTING CONTROL OF OUTDOOR LIGHT FIXTURES. REFER TO DIAGRAM B/E0.04.
- 9 (2) 4" C TO TELECOM UTILITY ENTRANCE LOCATION.
- 10 PROVIDE RECEPTACLE FOR IRRIGATION CONTROLLER. VERIFY EXACT LOCATION WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN.
- 11 3/4"-2 #10 & 1 #10 GND.
- 12 1"-2 #6 & 1 #8 GND.
- 13 ROUTE (1) RG6 ND (1) CAT6 CABLE IN (1) 3/4" CONDUIT TO TELECOM ROOM ON FIRST FLOOR. LABEL CABLES WITH ROOM NUMBER AND ANY OTHER LABELING REQUIREMENTS PER THE OWNER.



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 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave. Las Vegas, NV 89106

**SHEET TITLE:**  
 OVERALL POWER PLAN - FIRST FLOOR

**PERMIT**

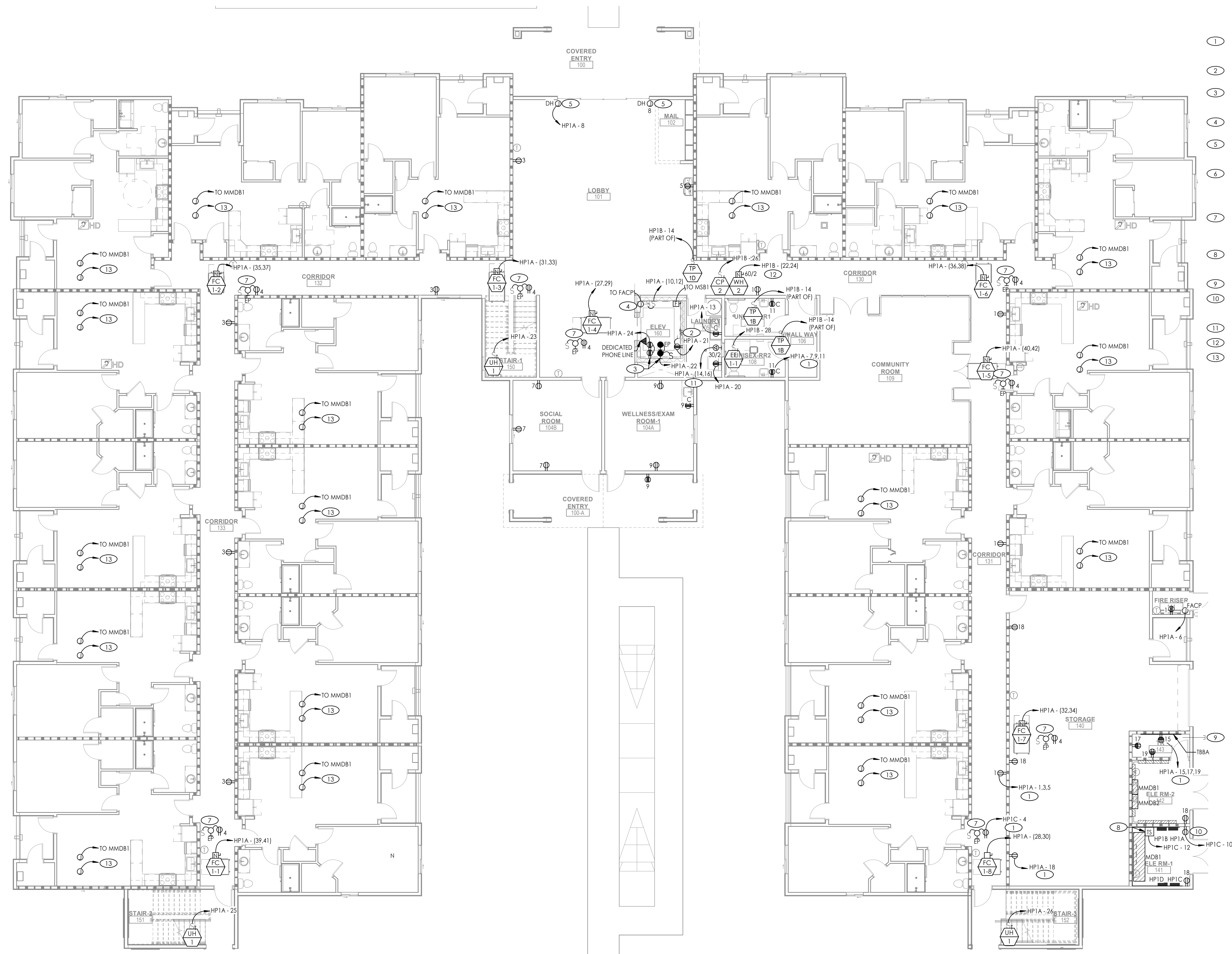
REVISIONS		
No.	Description	Date

**DRAWN BY:** RE  
**DATE:** 2024-04-25  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED  
DO NOT SCALE DRAWINGS

**SHEET**  
 E2.10



3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3361



**1 OVERALL POWER PLAN - FIRST FLOOR**  
 SCALE: 1/8" = 1'-0"

1

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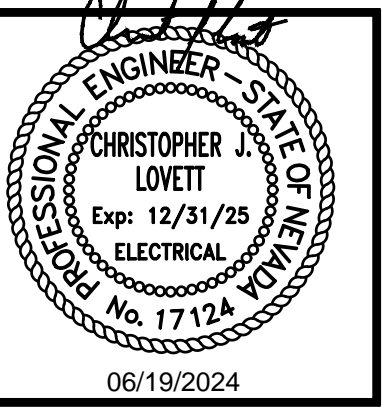
5

### SHEET NOTES

- ① CONNECT CIRCUITING TO DEVICES IN AREA WITH SAME CIRCUIT NUMBERS. ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNO.
- ② PROVIDE SWITCH, LIGHT, AND RECEPTACLE IN CEILING WITHIN SITE OF MECHANICAL EQUIPMENT. MOUNT SWITCH ADJACENT TO ACCESS PANEL. MOUNT RECEPTACLE AND LIGHT ADJACENT TO EQUIPMENT.
- ③ 3/4"-2 #10 & 1 #10 GND.
- ④ ROUTE (1) RG6 ND (1) CAT6 CABLE IN (1) 3/4" CONDUIT TO TELECOM ROOM ON FIRST FLOOR. LABEL CABLES WITH ROOM NUMBER AND ANY OTHER LABELING REQUIREMENTS PER THE OWNER.



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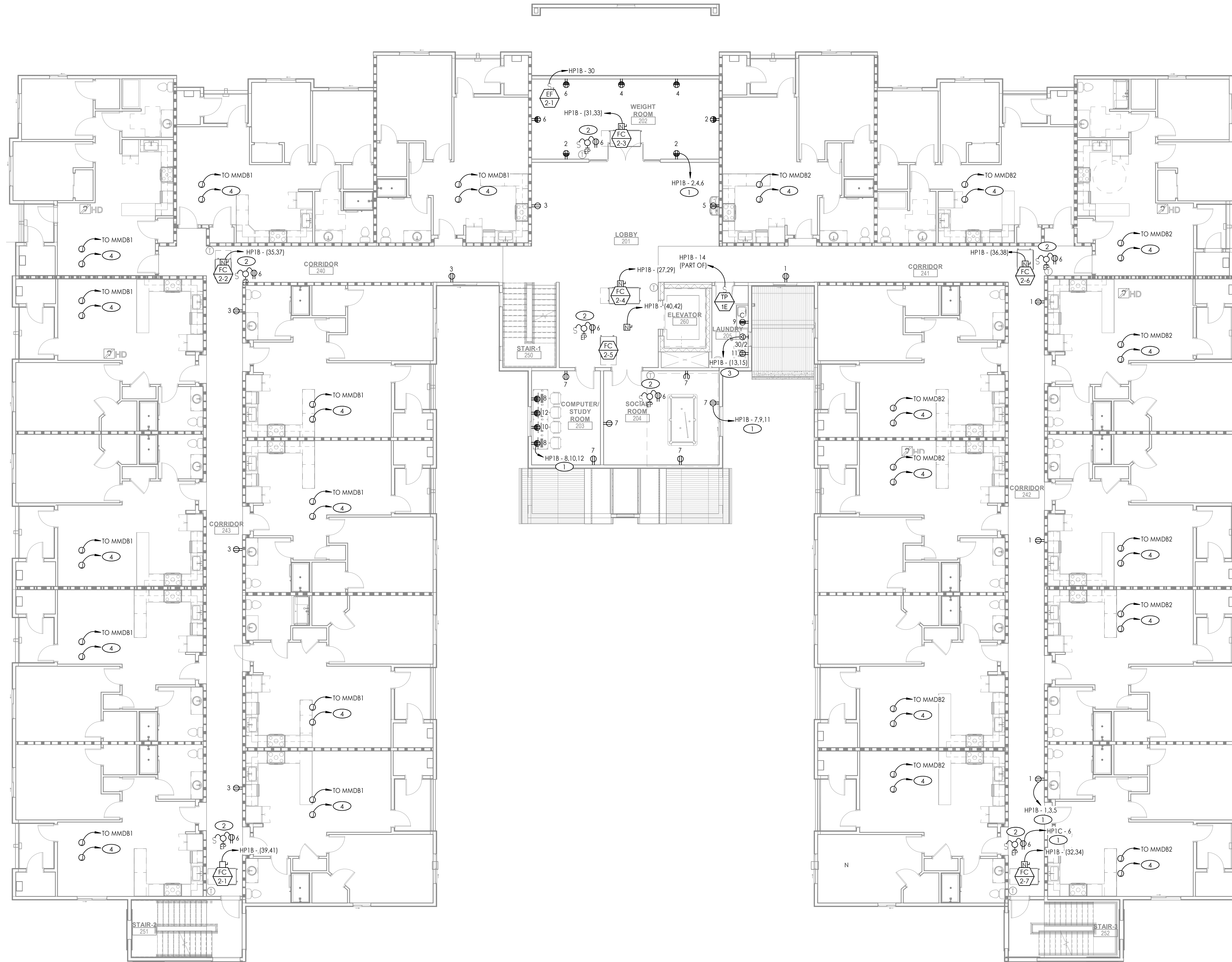
**SHEET TITLE:** OVERALL POWER PLAN - SECOND FLOOR

PERMIT

REVISIONS		
No.	Description	Date

DRAWN BY: RE  
 DATE: 2024-04-25  
 JOB NO: 2023-014  
 SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

SHEET  
**E2.20**



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

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 LAS VEGAS, NV 89120  
 702-514-3361

1

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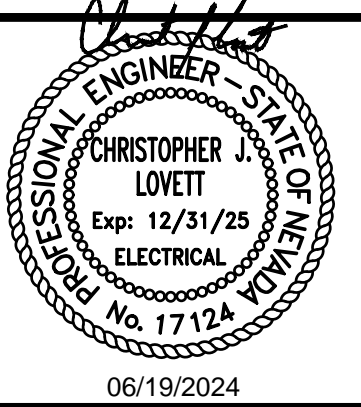
### SHEET NOTES

- ① CONNECT CIRCUITING TO DEVICES IN AREA WITH SAME CIRCUIT NUMBERS. ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNO.
- ② PROVIDE SWITCH, LIGHT, AND RECEPTACLE IN CEILING WITHIN SITE OF MECHANICAL EQUIPMENT. MOUNT SWITCH ADJACENT TO ACCESS PANEL. MOUNT RECEPTACLE AND LIGHT ADJACENT TO EQUIPMENT.
- ③ 3/4"-2 #10 & 1 #10 GND.
- ④ ROUTE (1) RG6 ND (1) CAT6 CABLE IN (1) 3/4" CONDUIT TO TELECOM ROOM ON FIRST FLOOR. LABEL CABLES WITH ROOM NUMBER AND ANY OTHER LABELING REQUIREMENTS PER THE OWNER.



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Suite #103  
Las Vegas, NV 89113

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Fax: 702.888.2089  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
OVERALL POWER PLAN - THIRD FLOOR

**PERMIT**

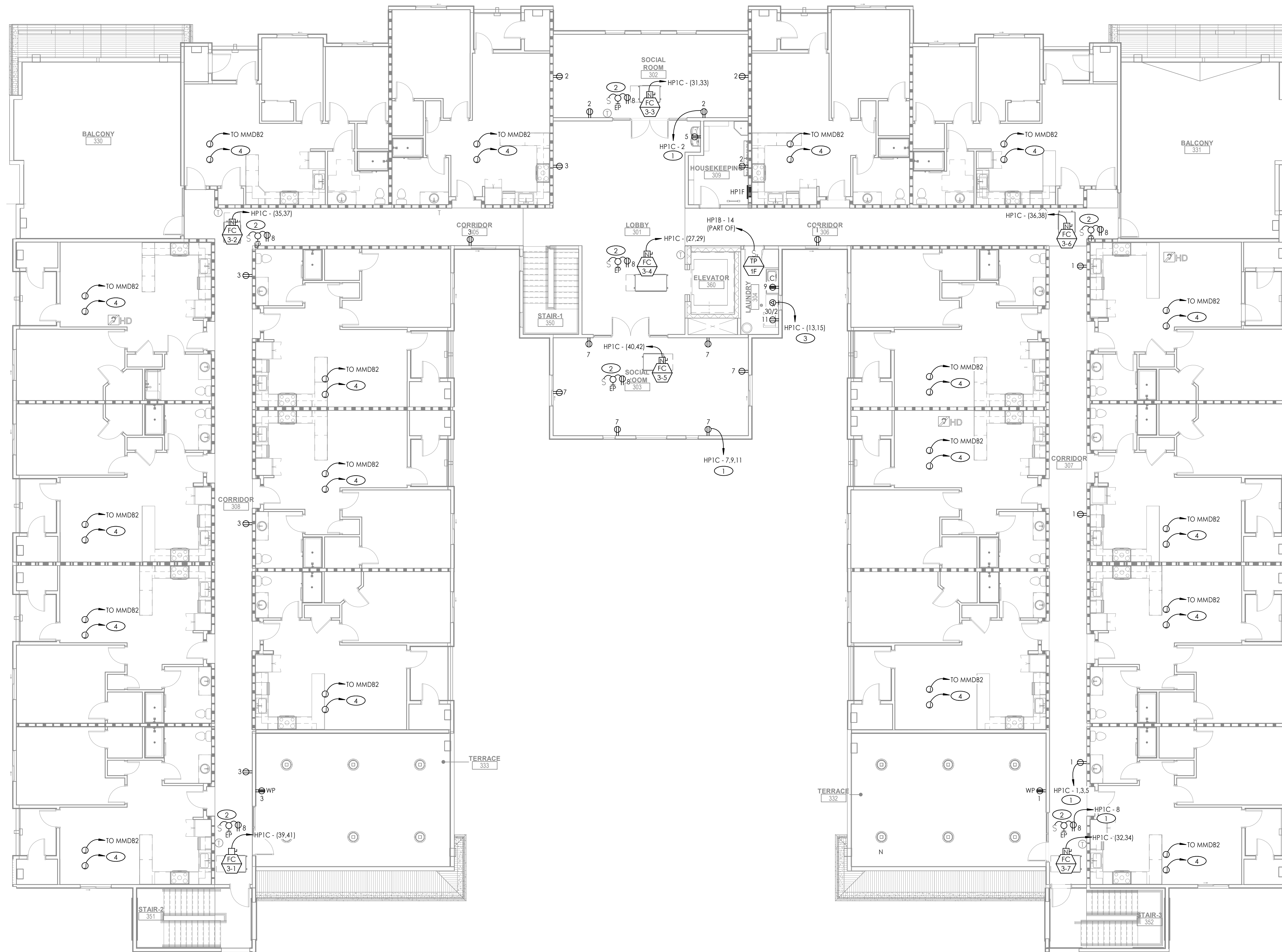
#### REVISIONS

No.	Description	Date

DRAWN BY: RE  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
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SHEET

**E2.30**



**1 OVERALL POWER PLAN - THIRD FLOOR**  
SCALE: 1/8" = 1'-0"



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1 2 3 4 5



### NOTICE

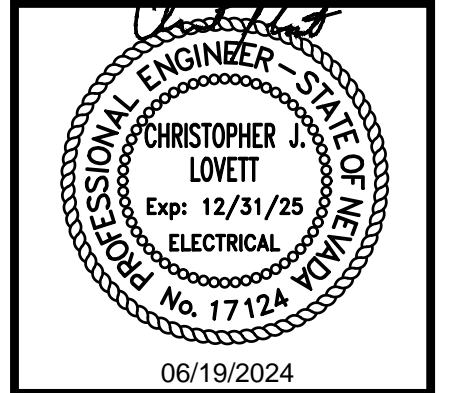
- A. ALL FIXTURES SCHEDULED WITH A BATTERY PACK OR LABELED AS 'NL' (NIGHT LIGHT) SHALL BE CONNECTED WITH AN UN-SWITCHED CONSTANT HOT CONDUCTOR.
- B. ALL RECESSED FIXTURES SHALL BE IC RATED OR LOCATED AS SUCH THAT THE RECESSED PORTION IS A MINIMUM OF 30" AWAY FROM COMBUSTIBLE MATERIALS PER NEC 410.116.
- C. ALL LIGHT SWITCHES SHALL BE INSTALLED TO COMPLY WITH NEC ARTICLE 404.8 "SWITCHES - ACCESSIBILITY AND GROUPING."
- D. EMERGENCY AND EXIT FIXTURES SHALL BE CONNECTED TO INVERTER OR PROVIDED WITH AN INTERNAL BATTERY PACK SUITABLE FOR A MINIMUM OF 90 MINUTE OPERATION UPON LOSS OF POWER, AS NOTED.
- E. THE CONTRACTOR SHALL COORDINATE ALL RECESSED LIGHT FIXTURES WITH EQUIPMENT INSTALLED BY OTHER TRADES AS TO AVOID ANY CONFLICTS WITH OTHER SYSTEMS ABOVE FINISHED CEILING.

### SHEET NOTES

- ① CONNECT CIRCUITING TO DEVICES IN AREA WITH SAME CIRCUIT NUMBERS. ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNO.
- ② CIRCUIT VIA PHOTOCELL/TIMECLOCK.



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 Suite #103  
 Las Vegas, NV 89113  
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**SNRHA BENNETT PLAZA PHASE II**  
 1818 Balzar Ave. Las Vegas, NV 89106

PROJECT:

SHEET TITLE:

**OVERALL LIGHTING PLAN - FIRST FLOOR**

PERMIT

REVISIONS		
No.	Description	Date

DRAWN BY: RE  
 DATE: 2024-04-25  
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SHEET  
**E3.10**

**1 OVERALL LIGHTING PLAN - FIRST FLOOR**  
 SCALE: 1/8" = 1'-0"



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### NOTICE

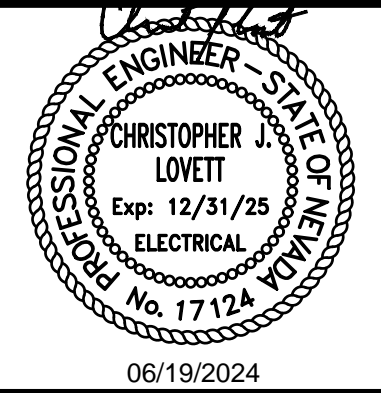
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### SHEET NOTES

- ① CONNECT CIRCUITING TO DEVICES IN AREA WITH SAME CIRCUIT NUMBERS. ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNO.



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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
 OVERALL LIGHTING PLAN - SECOND FLOOR

**PERMIT**

REVISIONS		
No.	Description	Date

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**SHEET**  
 E3.20

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

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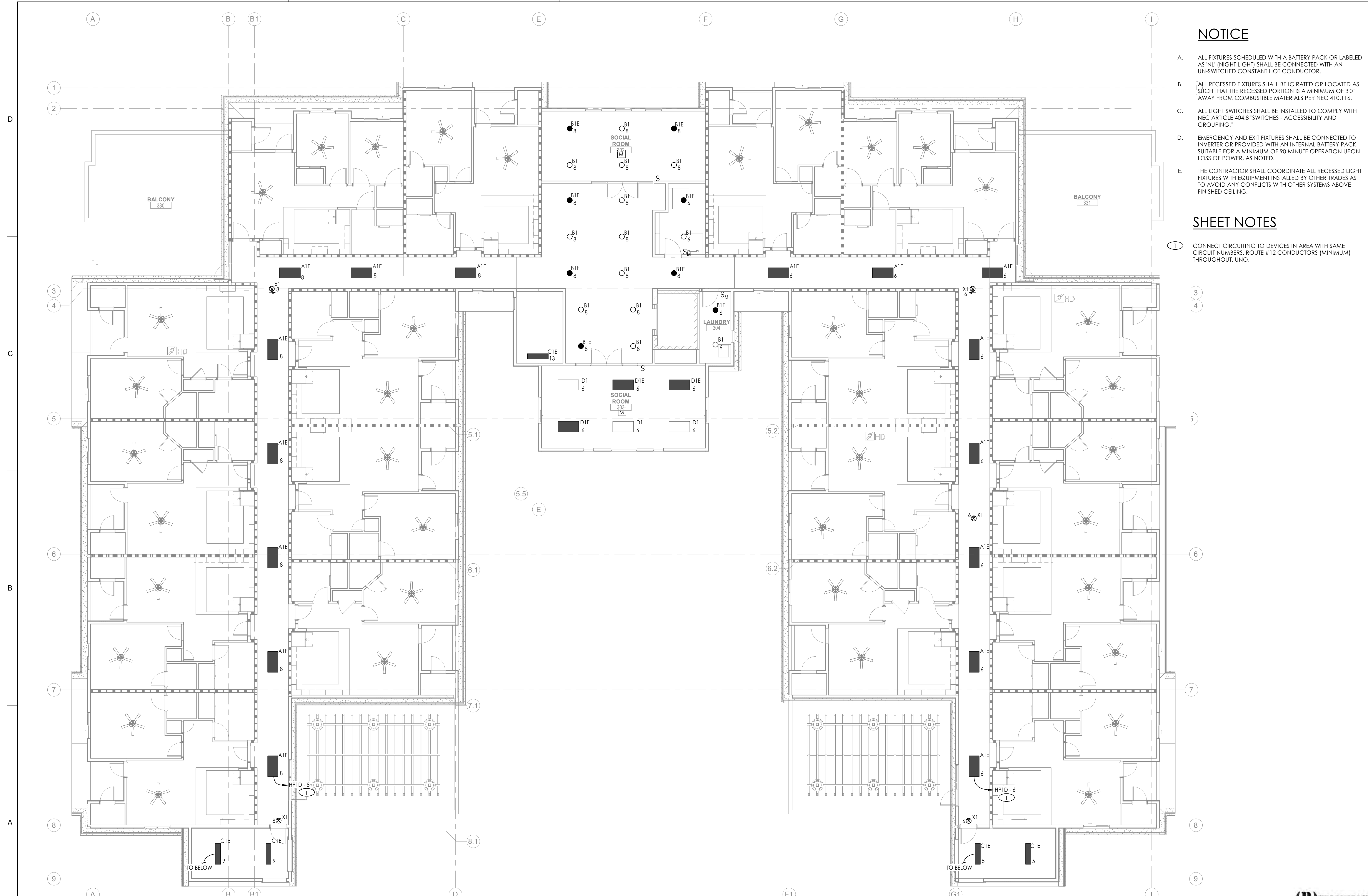
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### NOTICE

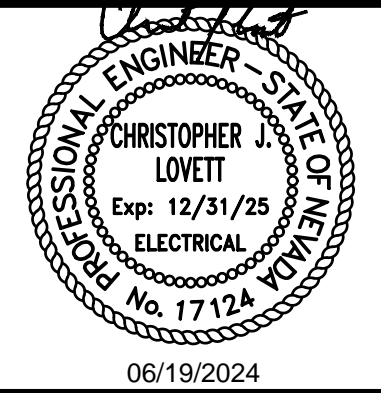
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- B. ALL RECESSED FIXTURES SHALL BE IC RATED OR LOCATED AS SUCH THAT THE RECESSED PORTION IS A MINIMUM OF 30" AWAY FROM COMBUSTIBLE MATERIALS PER NEC 410.116.
- C. ALL LIGHT SWITCHES SHALL BE INSTALLED TO COMPLY WITH NEC ARTICLE 404.8 "SWITCHES - ACCESSIBILITY AND GROUPING."
- D. EMERGENCY AND EXIT FIXTURES SHALL BE CONNECTED TO INVERTER OR PROVIDED WITH AN INTERNAL BATTERY PACK SUITABLE FOR A MINIMUM OF 90 MINUTE OPERATION UPON LOSS OF POWER, AS NOTED.
- E. THE CONTRACTOR SHALL COORDINATE ALL RECESSED LIGHT FIXTURES WITH EQUIPMENT INSTALLED BY OTHER TRADES AS TO AVOID ANY CONFLICTS WITH OTHER SYSTEMS ABOVE FINISHED CEILING.

### SHEET NOTES

- ① CONNECT CIRCUITING TO DEVICES IN AREA WITH SAME CIRCUIT NUMBERS. ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNO.



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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
 OVERALL LIGHTING PLAN - THIRD FLOOR

**PERMIT**

REVISIONS		
No.	Description	Date

DRAWN BY: RE  
 DATE: 2024-04-25  
 JOB NO: 2023-014  
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SHEET

**E3.30**

**1 OVERALL LIGHTING PLAN - THIRD FLOOR**  
 SCALE: 1/8" = 1'-0"

**(R)EVOLUTION ENGINEERING**  
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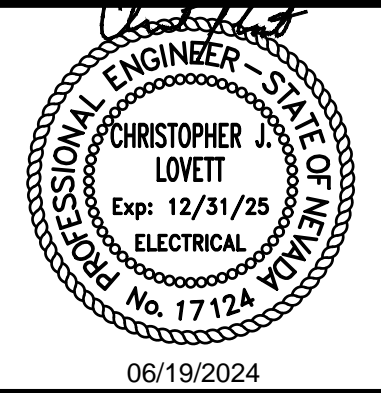
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### NOTICE

A. ALL CONDUIT AND WIRE SHALL BE 3/4"-2 #10 & 1 #10 GND. UNLESS NOTED OTHERWISE.



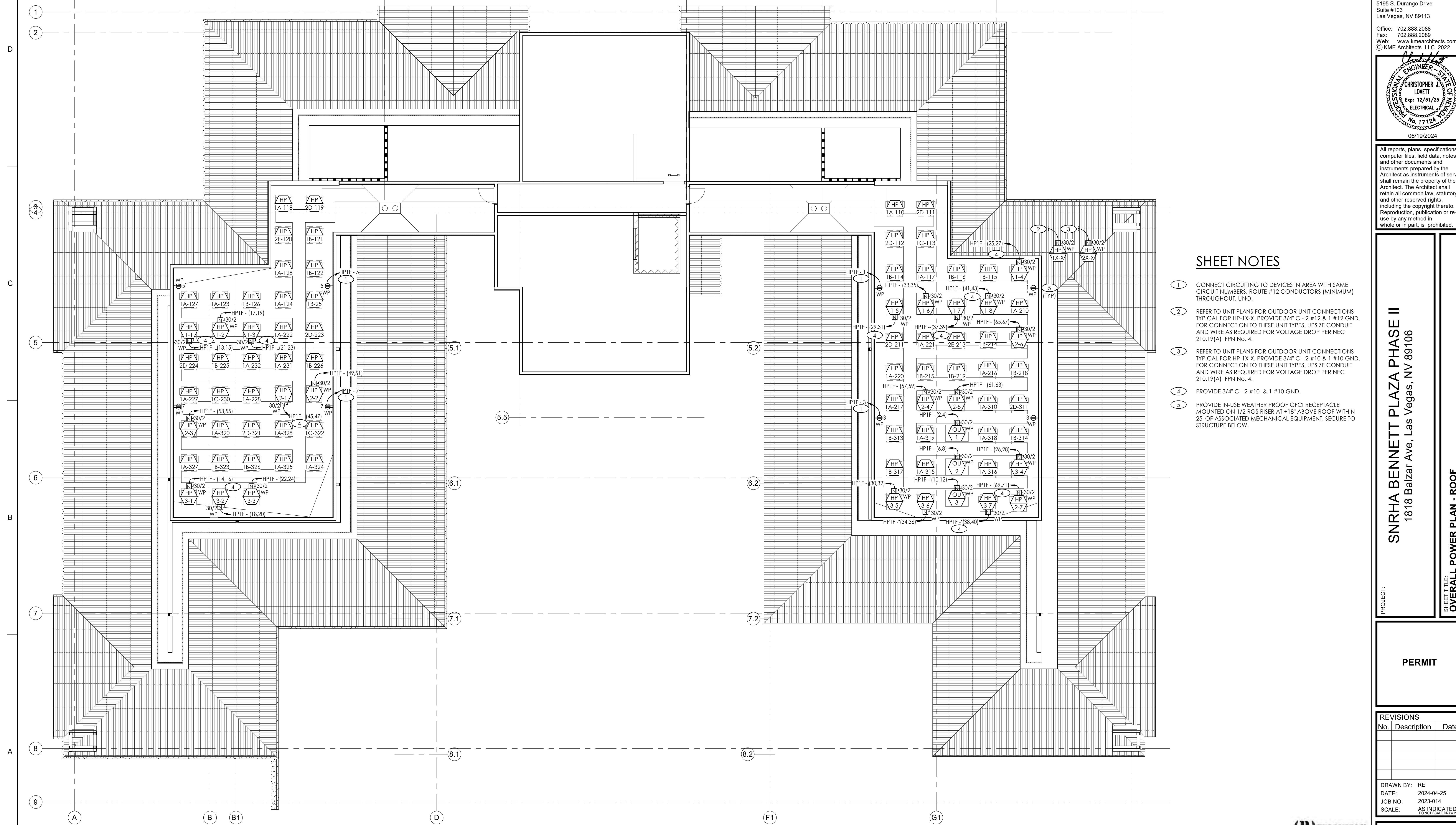
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### SHEET NOTES

- 1 CONNECT CIRCUITING TO DEVICES IN AREA WITH SAME CIRCUIT NUMBERS. ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNO.
- 2 REFER TO UNIT PLANS FOR OUTDOOR UNIT CONNECTIONS TYPICAL FOR HP-1X-X. PROVIDE 3/4" C - 2 #12 & 1 #12 GND. FOR CONNECTION TO THESE UNIT TYPES, UPSIZE CONDUIT AND WIRE AS REQUIRED FOR VOLTAGE DROP PER NEC 210.19(A) FPN No. 4.
- 3 REFER TO UNIT PLANS FOR OUTDOOR UNIT CONNECTIONS TYPICAL FOR HP-1X-X. PROVIDE 3/4" C - 2 #10 & 1 #10 GND. FOR CONNECTION TO THESE UNIT TYPES, UPSIZE CONDUIT AND WIRE AS REQUIRED FOR VOLTAGE DROP PER NEC 210.19(A) FPN No. 4.
- 4 PROVIDE 3/4" C - 2 #10 & 1 #10 GND.
- 5 PROVIDE IN-USE WEATHER PROOF GFCI RECEPTACLE MOUNTED ON 1/2 RGS RISER AT +18" ABOVE ROOF WITHIN 25' OF ASSOCIATED MECHANICAL EQUIPMENT. SECURE TO STRUCTURE BELOW.



PROJECT: SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106  
SHEET TITLE: OVERALL POWER PLAN - ROOF

PERMIT

REVISIONS		
No.	Description	Date

DRAWN BY: RE  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET E4.00

1 OVERALL POWER PLAN - ROOF  
SCALE: 1/8" = 1'-0"



UNIT LOAD CALCULATION	
PROJECT NAME:	MARION D. BENNETT
PROJECT#	LV23.0030
ROOM TYPE	TYPE 1A
SQUARE FOOTAGE	789 SF
GENERAL LIGHTING LOAD (SQFT X 3VA)	2367 VA
SMALL APPLIANCE LOAD (2 X 1500VA)	3000 VA
LAUNDRY CIRCUIT (1 X 1500VA)	1500 VA
SUBTOTAL #1	6867 VA
1ST 3KVA @ 100%	3000 VA
REM KVA @ 35%	1353 VA
OVER 120KVA @ 25%	0 VA
NEC LOAD	4353 VA
RANGE LOAD ELECTRIC	8000 VA
DRYER LOAD ELECTRIC	5000 VA
HVAC LOAD (TOTAL @ 100%)	4659 VA
FIXED APPLIANCES	
GARBAGE DISPOSAL	800 VA
DISHWASHER	1200 VA
MICROWAVE	1000 VA
WATER HEATER	4500 VA
(TOTAL @ 75%)	5625 VA
TOTAL VOLT-AMPS	27637 VA
TOTAL AMPS (208V, 1PH)	133 A

PANEL: 1A		BUS 150 A		AIC RATING: 22,000		NEMA... Type 1		3ph						
VOLTAGE: 120/208 Wye 3Ø, 4W		MAINS: 150A MCB		LOCATION: UNIT		MOUNTING: FLUSH								
NOTE	CODE	TRIP	POLE	LOAD DESCRIPTION	CKT	A	B	C	CKT	LOAD DESCRIPTION	POLE	TRIP	CODE	NOTE
1	R	20	1	RECEPT - ENTRY/LIVING	1	0			2	RECEPT - KITCHEN COUNTER	1	20	R	1
1	R	20	1	RECEPT - BEDROOM	3	0			4	RECEPT - KITCHEN COUNTER	1	20	R	1
	R	N	20	RECEPT - BATHROOM	5			0	6	KITCHEN DISHWASHER	1	20	R	1
1	L	20	1	LTG - ENTRY/LIVING/BEDROOM	7	0			8	KITCHEN DISPOSAL	1	20	R	1
	L	20	1	LTG - BATHROOM	9			0	10	KITCHEN REFRIGERATOR	1	20	R	12
				1 SPACE	11				12	SPACE	1			
1.2	N	20	2	ELECTRIC RANGE	13	0			14	HP-1A	2	20	N	3
				1 SPACE	15				16					
1.2	R	20	1	RANGE HOOD	17				18	IC-1A	2	20	N	4
	R	20	1	WATER HEATER	19	0			20					
				1 SPACE	21				22	SPACE	1			
				1 SPACE	23				24	SPACE	1			
				1 SPACE	25				26	SPACE	1			
				1 SPACE	27				28	SPACE	1			
				1 SPACE	29				30	SPACE	1			
PHASE TOTALS (KVA)					0A:	0.0	0B:	0.0	0C:	0.0				

TOTAL CONNECTED CIRCUIT CODE...	WITH NEC DEMAND:	0.0 KVA	0.0 A
(L) LONG...	0.0 KVA @ 1.25 =	0.0 KVA	0.0 A
(R) RECEPTACLE	0.0 KVA @ 1.00 =	0.0 KVA	0.0 A
(K) KITCHEN	0.0 KVA @ 1.00 =	0.0 KVA	0.0 A
PANEL DEMAND (KVA)		0.0 KVA	
PANEL DEMAND (AMPS)		0.0 A	

- PANEL NOTES:  
 1. PROVIDE AFCI CIRCUIT BREAKER.  
 2. PROVIDE GFCI CIRCUIT BREAKER.  
 3. EQUIPMENT ON ROOF. HACR RATED CIRCUIT BREAKER.  
 4. HACR RATED CIRCUIT BREAKER.

### SHEET NOTES

- REFRIGERATOR 120V, 12A MAX. PROVIDE 2 #12 CU, 1 #12 CU EGC. CORD AND PLUG CONNECTION.
- PROVIDE TWO SEPARATE CIRCUITS AND DOUBLE GANG BOX FOR GARBAGE DISPOSAL (SWITCHED) AND DISHWASHER (GFI) RECEPTACLES IN AN ACCESSIBLE SPACE. SHARED NEUTRAL NOT ALLOWED. IF DISHWASHER IS MORE THAN 3FT. FROM DISPOSAL THEN EC SHALL PROVIDE A 20A SINGLE POLE RECEPTACLE FOR A DISHWASHER.
- FOR KITCHEN AND BATHROOM RECEPTACLES ABOVE COUNTER. COORDINATE LOCATION AND PLACEMENT PRIOR TO ROUGH-IN. IF FULL BACKSPASH IS USED, MOUNT RECEPTACLES VERTICALLY. IF FULL BACKSPASH IS NOT USED, MOUNT RECEPTACLES HORIZONTALLY ABOVE BACKSPASH.
- ELECTRIC RANGE. PROVIDE HARD-WIRED CONNECTION TO JUNCTION BOX IN CABINET TO RIGHT. COORDINATE EXACT LOCATION MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE LOCKABLE CIRCUIT BREAKER IN PANEL AS DISCONNECTING MEANS TO COMPLY WITH NEC 422.31(B). PROVIDE 2 #6 CU, 1 #10 CU EGC.
- COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE SENSOR. 120V WITH BATTERY BACK-UP. DETECTORS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH IRC 314 AND 315, IFC 908.7, AND NFPA 72 AND 74 WITH SPECIAL ATTENTION GIVEN TO THE LOCATION OF THE DETECTOR IN VICINITY OF RETURN AIR GRILLES. (PROVIDE SMOKE DETECTOR ONLY, WHERE ALLOWED BY CODE).
- ELECTRICAL PANEL. RECESSED FLUSH IN WALL. PAINTED WHITE BY MANUFACTURER.
- TELEVISION. PROVIDE 120V DUPLEX RECEPTACLE, DATA OUTLET, AND COAX CABLE (BOTH WIRED BACK TO LOW VOLTAGE STRUCTURED MEDIA ENCLOSURE). VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- LOW VOLTAGE STRUCTURED MEDIA ENCLOSURE. COORDINATE REQUIREMENTS. PROVIDE 120V DUPLEX RECEPTACLE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE 1-1/4" TO ACCESSIBLE CEILING SPACE.

### NOTICE

- ALL LIGHTING IS SHOWN FOR PRELIMINARY PRICING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT NECESSARY FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO PRICING.
- ALL ELECTRICAL OUTLET BOXES LOCATED ON COMMON WALLS BETWEEN UNITS SHALL BE U.L. LISTED AND TESTED BOXES FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES AND ARE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS INCLUDED IN THE LISTING. OUTLET BOXES ON OPPOSITE SIDE OF WALL SHALL BE SEPARATED AS FOLLOWS.
  - BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR
  - BY PROTECTION BOTH OUTLET BOXES WITH LISTED PUTTY PADS OR
  - BY USING U.L. LISTED TWO HOUR MINIMUM RATED PLASTIC BOXES WITH U.L. LISTED FIRE PADS.
- LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTAT & OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 47", AND NO LOWER THAN 15" AFF. IF THE REACH IS OVER AN OBSTRUCTION SHALL NOT EXTEND MORE THAN 25" FROM WALL BENEATH A CONTROL.
- ALL PENETRATIONS THRU FIRE RATED WALL AND CEILINGS SHALL BE PROTECTED AS REQUIRED BY U.L. RATED SYSTEMS.
- ALL UNITS OF ALL BUILDINGS SHALL CONFORM WITH ACCESSIBILITY GUIDELINES.
- ALL 120-VOLT SINGLE PHASE, 15 & 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT IN FAMILY ROOMS, KITCHENS, DINING ROOMS, LIVING ROOMS, PARLOUS, DENIS, BEDROOMS, REC. ROOMS, CLOSETS, HALLWAYS, LAUNDRY ROOMS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY LISTED ARC-FAULT CIRCUIT INTERRUPTER COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT PER NEC 210.12(A).
- IN ALL AREAS SPECIFIED IN NEC 210.52 ALL 15 & 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.
- THE FOLLOWING DEVICES SHALL HAVE A DEDICATED CIRCUIT: MICROWAVE, TRASH COMPACTOR, MICROWAVE OVEN, REFRIGERATOR, GARBAGE DISPOSAL.
- LIGHT FIXTURES LOCATED ABOVE SHOWER OR TUB ENCLOSURE SHALL BE WET LOCATION LISTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND ADDITIONAL INFORMATION.
- ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS.
- MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS AND COORDINATE ELECTRICAL EQUIPMENT LOCATIONS WITH MECHANICAL EQUIPMENT. MAKE ALL WIRING CONNECTIONS AS REQUIRED.
- COORDINATE LOCATIONS OF FIRE ALARM DEVICES WITH FIRE ALARM SYSTEM SUPPLIER AND ARCHITECTURAL ELEVATIONS.
- BACK TO BACK BOXES ARE NOT PERMITTED BETWEEN UNITS.
- WHERE A SWITCH AND RECEPTACLE ARE ADJACENT TO EACH OTHER THEY SHALL BE INSTALLED IN A MULTI-GANG BOX UNDER ONE FACEPLATE WHERE FEASIBLE.
- WHERE RECEPTACLES AND LOW VOLTAGE DEVICES ARE ADJACENT TO EACH OTHER THEY SHALL BE INSTALLED IN A MULTI-GANG BOX UNDER ONE FACEPLATE WHERE FEASIBLE EXCEPT BEHIND TV. REFER TO DIAGRAMS ON SHEET EX.XX FOR MORE INFORMATION.
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES SHALL BE INSTALLED AS REQUIRED BY CODE.
- SEAL WALL PENETRATIONS WITH APPROPRIATE SEALANTS WHERE PENETRATION IS THROUGH A FIRE RATED WALL USE THE APPROPRIATE SEALANT TO MAINTAIN UL FIRE RATING.
- COORDINATE LOCATION OF THERMOSTAT AND CONNECTION REQUIREMENT WITH MECHANICAL TRADES PRIOR TO ROUGH-IN.
- PROVIDE CONNECTION TO FIRE FEATURE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROUTE CIRCUIT THROUGH WALL MOUNTED SWITCH WITH LABEL TO READ "FIRE FEATURE DISCONNECT".
- BALCONIES, DECKS, AND PORCHES ATTACHED TO THE UNIT SHALL HAVE AT LEAST ONE WEATHERPROOF, GFCI RECEPTACLE NOT LOCATED MORE THAN 6 1/2' ABOVE THE FINISHED FLOOR PER NEC 210.52(E)(3).
- THE FOLLOWING FASTENED-IN-PLACE APPLIANCES ARE REQUIRED TO HAVE A SEPARATE MINIMUM 20-AMPERE CIRCUIT: DISHWASHER, TRASH COMPACTOR, MICROWAVE, OVEN, RANGE HOOD, CLOTHES WASHER, HYDRO-MASSAGE BATHTUB, GARBAGE DISPOSAL, AND REFRIGERATOR PER NEC 210.23(E)(3). THE CLOTHES WASHER CIRCUIT MAY SERVE ONE (1) ADDITIONAL OUTLET IN THE LAUNDRY AREA.
- ATTIC ACCESS SHALL BE PROVIDED WITH A SWITCHED LIGHT AND 120-VOLT GFCI OUTLET AT OR NEAR THE FORCED AIR UNIT. LOCATE SWITCH AT THE ATTIC ACCESS OPENING.

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**PROFESSIONAL ENGINEER - STATE OF NEVADA**

CHRISTOPHER J. LOVETT  
 Exp: 12/31/25  
 No. 17124

06/19/2024

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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
 ENLARGED UNIT PLAN - 1A TYPE B

**PERMIT**

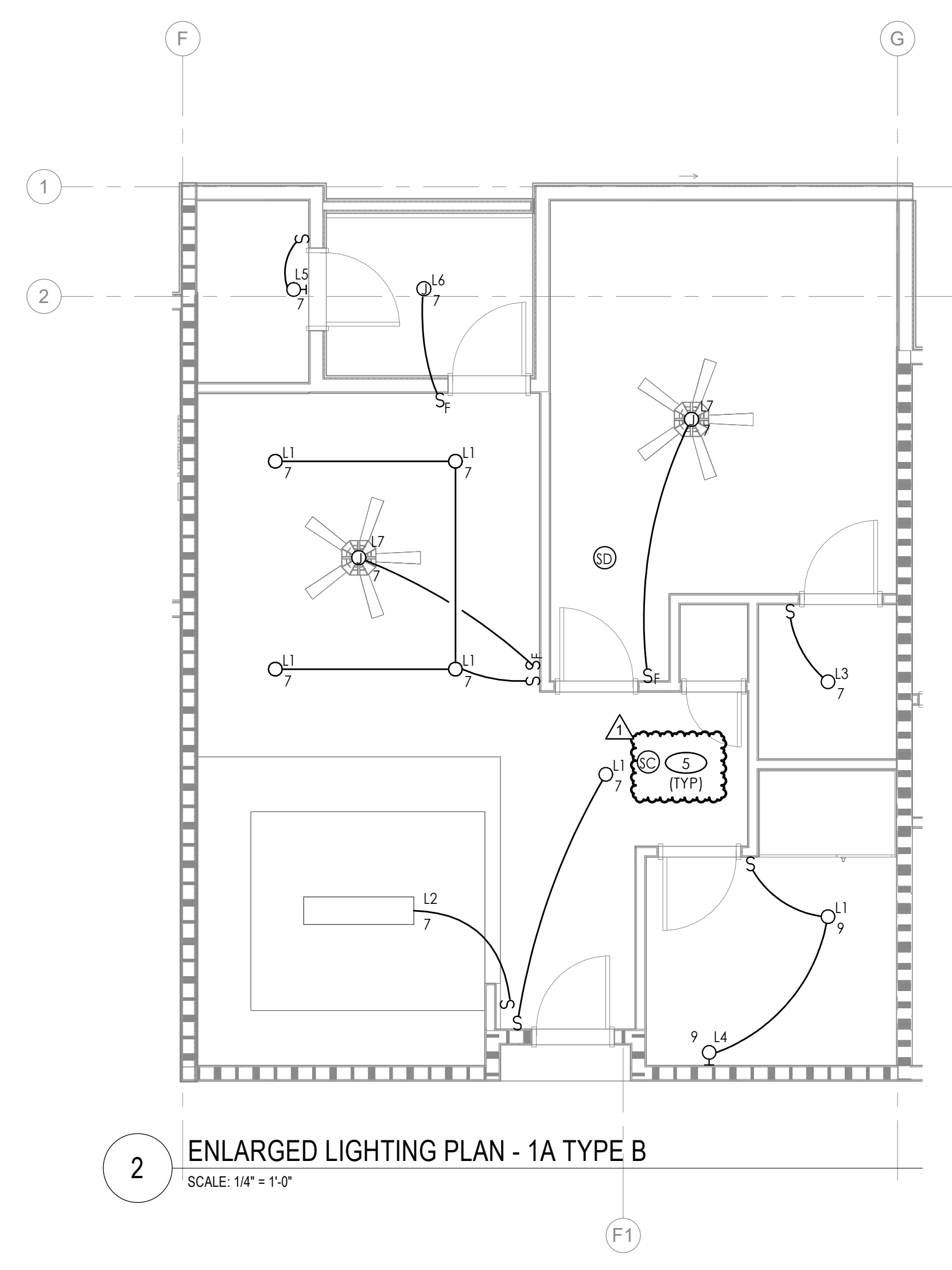
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No.	Description	Date
1	CLV COM.	6/21/24

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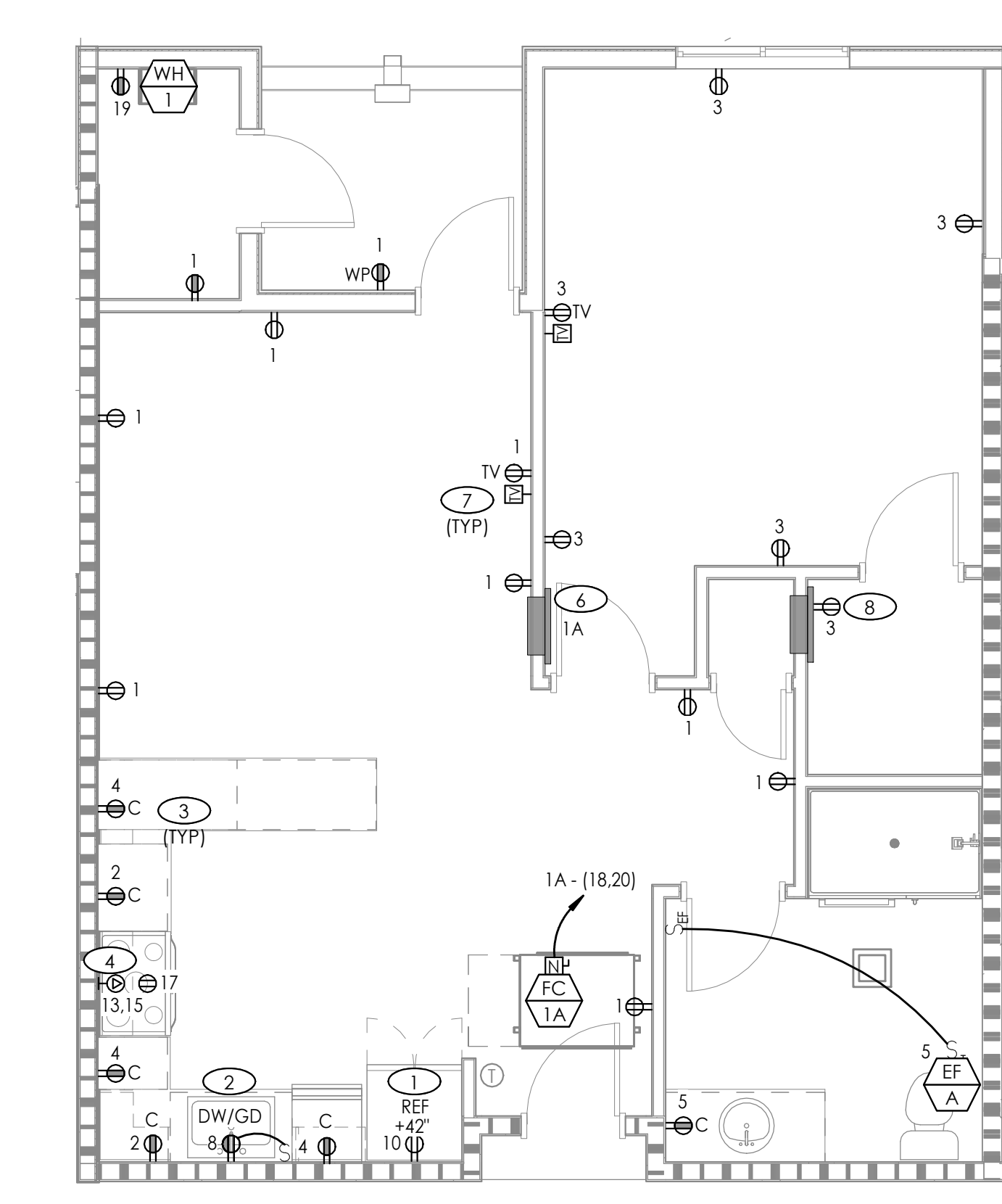
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**(R) EVOLUTION ENGINEERING**

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2 ENLARGED LIGHTING PLAN - 1A TYPE B  
 SCALE: 1/4" = 1'-0"



1 ENLARGED POWER PLAN - 1A TYPE B  
 SCALE: 1/4" = 1'-0"

UNIT LOAD CALCULATION	
PROJECT NAME:	MARION D. BENNETT
PROJECT#	LV23.0030
ROOM TYPE	TYPE 1B
SQUARE FOOTAGE	789 SF
GENERAL LIGHTING LOAD (SQFT X 3VA)	2367 VA
SMALL APPLIANCE LOAD (2 X 1500VA)	3000 VA
LAUNDRY CIRCUIT (1 X 1500VA)	1500 VA
SUBTOTAL #1	6867 VA
1ST 3KVA @ 100%	3000 VA
REM KVA @ 35%	1353 VA
OVER 120KVA @ 25%	0 VA
NEC LOAD	4353 VA
RANGE LOAD ELECTRIC	8000 VA
DRYER LOAD ELECTRIC	5000 VA
HVAC LOAD (TOTAL @ 100%)	4659 VA
FIXED APPLIANCES	
GARBAGE DISPOSAL	800 VA
DISHWASHER	1200 VA
MICROWAVE	1000 VA
WATER HEATER	4500 VA
(TOTAL @ 75%)	5625 VA
TOTAL VOLT-AMPS	27637 VA
TOTAL AMPS (208V, 1PH)	133 A

PANEL: 1B		BUS 150 A		AIC RATING: 22,000		NEMA... Type 1		3ph					
VOLTAGE: 120/208 Wye 3Ø, 4W		MAINS: 150A MCB		LOCATION: UNIT		MOUNTING: FLUSH							
NOTE	CODE	TRIP	POLE	LOAD DESCRIPTION	CKT	A	B	C	LOAD DESCRIPTION	TRIP	CODE	NOTE	
1	R	20	1	RECEPT - ENTRY/LIVING	1	0	0	0	2	RECEPT - KITCHEN COUNTER	1	20	R 1
1	R	20	1	RECEPT - BEDROOM	3	0	0	0	4	RECEPT - KITCHEN COUNTER	1	20	R 1
	R	N	20	1	RECEPT - BATHROOM	5	0	0	6	KITCHEN DISHWASHER	1	20	R 1
1	L	20	1	LTG - ENTRY/LIVING/BEDROOM	7	0	0	0	8	KITCHEN DISPOSAL	1	20	R 1
	L	20	1	LTG - BATHROOM	9	0	0	0	10	KITCHEN REFRIGERATOR	1	20	R 12
				1	SPACE	11			12	SPACE	1		
1.2	N	20	2	ELECTRIC RANGE	13	0	0	0	14	HP-1B	2	20	N 3
				1	SPACE	15			16				
1.2	R	20	1	RANGE HOOD	17	0	0	0	18	IC-1B	2	20	N 4
	R	20	1	WATER HEATER	19	0	0	0	20				
				1	SPACE	21			22	SPACE	1		
				1	SPACE	23			24	SPACE	1		
				1	SPACE	25			26	SPACE	1		
				1	SPACE	27			28	SPACE	1		
				1	SPACE	29			30	SPACE	1		
PHASE TOTALS (KVA)					0A:	0.0	0B:	0.0	0C:	0.0			

TOTAL CONNECTED CIRCUIT CODE...	WITH NEC DEMAND:	0.0 KVA	0.0 A
(L) LONG...	0.0 KVA @ 1.25 =	0.0 KVA	0.0 A
(R) RECEPTACLE	0.0 KVA @ 1.00 =	0.0 KVA	0.0 A
(K) KITCHEN	0.0 KVA @ 1.00 =	0.0 KVA	0.0 A
PANEL DEMAND (KVA)		0.0 KVA	
PANEL DEMAND (AMPS)		0.0 A	

- PANEL NOTES:**
1. PROVIDE AFCI CIRCUIT BREAKER.
  2. PROVIDE GFCI CIRCUIT BREAKER.
  3. EQUIPMENT ON ROOF. HACR RATED CIRCUIT BREAKER.
  4. HACR RATED CIRCUIT BREAKER.

### SHEET NOTES

- 1 REFRIGERATOR 120V, 12A MAX. PROVIDE 2 #12 CU, 1 #12 CU EGC, CORD AND PLUG CONNECTION.
- 2 PROVIDE TWO SEPARATE CIRCUITS AND DOUBLE GANG BOX FOR GARBAGE DISPOSAL (SWITCHED) AND DISHWASHER (GFI) RECEPTACLES IN AN ACCESSIBLE SPACE. SHARED NEUTRAL NOT ALLOWED. IF DISHWASHER IS MORE THAN 3FT. FROM DISPOSAL THEN EC SHALL PROVIDE A 20A SINGLE POLE RECEPTACLE FOR A DISHWASHER.
- 3 FOR KITCHEN AND BATHROOM RECEPTACLES ABOVE COUNTER, COORDINATE LOCATION AND PLACEMENT PRIOR TO ROUGH-IN. IF FULL BACKSPASH IS USED, MOUNT RECEPTACLES VERTICALLY. IF FULL BACKSPASH IS NOT USED, MOUNT RECEPTACLES HORIZONTALLY ABOVE BACKSPASH.
- 4 ELECTRIC RANGE. PROVIDE HARD-WIRED CONNECTION TO JUNCTION BOX IN CABINET TO RIGHT. COORDINATE EXACT LOCATION MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE LOCKABLE CIRCUIT BREAKER IN PANEL AS DISCONNECTING MEANS TO COMPLY WITH NEC 422.31(B). PROVIDE 2 #6 CU, 1 #10 CU EGC.
- 5 COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE SENSOR. 120V WITH BATTERY BACK-UP. DETECTORS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH IRC 314 AND 315, IFC 908.7, AND NFPA 72 AND 74 WITH SPECIAL ATTENTION GIVEN TO THE LOCATION OF THE DETECTOR IN VICINITY OF RETURN AIR GRILLES. (PROVIDE SMOKE DETECTOR ONLY, WHERE ALLOWED BY CODE).
- 6 ELECTRICAL PANEL. RECESSED FLUSH IN WALL. PAINTED WHITE BY MANUFACTURER.
- 7 TELEVISION. PROVIDE 120V DUPLEX RECEPTACLE, DATA OUTLET, AND COAX CABLE (BOTH WIRED BACK TO LOW VOLTAGE STRUCTURED MEDIA ENCLOSURE). VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- 8 LOW VOLTAGE STRUCTURED MEDIA ENCLOSURE. COORDINATE REQUIREMENTS. PROVIDE 120V DUPLEX RECEPTACLE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE 1-1/4" TO ACCESSIBLE CEILING SPACE.

### NOTICE

- A. ALL LIGHTING IS SHOWN FOR PRELIMINARY PRICING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT NECESSARY FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO PRICING.
- B. ALL ELECTRICAL OUTLET BOXES LOCATED ON COMMON WALLS BETWEEN UNITS SHALL BE U.L. LISTED AND TESTED BOXES FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES AND ARE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS INCLUDED IN THE LISTING. OUTLET BOXES ON OPPOSITE SIDE OF WALL SHALL BE SEPARATED AS FOLLOWS.
  - a. BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR
  - b. BY PROTECTION BOTH OUTLET BOXES WITH LISTED PUTTY PADS OR
  - c. BY USING U.L. LISTED TWO HOUR MINIMUM RATED PLASTIC BOXES WITH U.L. LISTED FIRE PADS.
- C. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTAT & OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 47", AND NO LOWER THAN 15" AFF. IF THE REACH IS OVER AN OBSTRUCTION SHALL NOT EXTEND MORE THAN 25" FROM WALL BENEATH A CONTROL.
- D. ALL PENETRATIONS THRU FIRE RATED WALL AND CEILINGS SHALL BE PROTECTED AS REQUIRED BY U.L. RATED SYSTEMS.
- E. ALL UNITS OF ALL BUILDINGS SHALL CONFORM WITH ACCESSIBILITY GUIDELINES.
- F. ALL 120-VOLT SINGLE PHASE, 15 & 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT IN FAMILY ROOMS, KITCHENS, DINING ROOMS, LIVING ROOMS, PARLOUS, DENIS, BEDROOMS, SUNROOMS, REC. ROOMS, CLOSETS, HALLWAYS, LAUNDRY ROOMS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY LISTED ARC-FAULT CIRCUIT INTERRUPTER COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT PER NEC 210.12(A).
- G. IN ALL AREAS SPECIFIED IN NEC 210.52 ALL 15 & 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.
- H. THE FOLLOWING DEVICES SHALL HAVE A DEDICATED CIRCUIT: MICROWAVE, TRASH COMPACTOR, MICROWAVE OVEN, REFRIGERATOR, GARBAGE DISPOSAL.
- I. LIGHT FIXTURES LOCATED ABOVE SHOWER OR TUB ENCLOSURE SHALL BE WET LOCATION LISTED.
- J. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND ADDITIONAL INFORMATION.
- K. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS.
- L. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS AND COORDINATE ELECTRICAL EQUIPMENT LOCATIONS WITH MECHANICAL EQUIPMENT. MAKE ALL WIRING CONNECTIONS AS REQUIRED.
- M. COORDINATE LOCATIONS OF FIRE ALARM DEVICES WITH FIRE ALARM SYSTEM SUPPLIER AND ARCHITECTURAL ELEVATIONS.
- N. BACK TO BACK BOXES ARE NOT PERMITTED BETWEEN UNITS.
- O. WHERE A SWITCH AND RECEPTACLE ARE ADJACENT TO EACH OTHER THEY SHALL BE INSTALLED IN A MULTI-GANG BOX UNDER ONE FACEPLATE WHERE FEASIBLE.
- P. WHERE RECEPTACLES AND LOW VOLTAGE DEVICES ARE ADJACENT TO EACH OTHER THEY SHALL BE INSTALLED IN A MULTI-GANG BOX UNDER ONE FACEPLATE WHERE FEASIBLE EXCEPT BEHIND TV. REFER TO DIAGRAMS ON SHEET EX.XX FOR MORE INFORMATION.
- Q. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES SHALL BE INSTALLED AS REQUIRED BY CODE.
- R. SEAL WALL PENETRATIONS WITH APPROPRIATE SEALANTS WHERE PENETRATION IS THROUGH A FIRE RATED WALL USE THE APPROPRIATE SEALANT TO MAINTAIN UL FIRE RATING.
- S. COORDINATE LOCATION OF THERMOSTAT AND CONNECTION REQUIREMENT WITH MECHANICAL TRADES PRIOR TO ROUGH-IN.
- T. PROVIDE CONNECTION TO FIRE FEATURE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROUTE CIRCUIT THROUGH WALL MOUNTED SWITCH WITH LABEL TO READ "FIRE FEATURE DISCONNECT".
- U. BALCONIES, DECKS, AND PORCHES ATTACHED TO THE UNIT SHALL HAVE AT LEAST ONE WEATHERPROOF, GFCI RECEPTACLE NOT LOCATED MORE THAN 6 1/2' ABOVE THE FINISHED FLOOR PER NEC 210.52(E)(3).
- V. THE FOLLOWING FASTENED-IN-PLACE APPLIANCES ARE REQUIRED TO HAVE A SEPARATE MINIMUM 20-AMPERE CIRCUIT: DISHWASHER, TRASH COMPACTOR, MICROWAVE, OVEN, RANGE HOOD, CLOTHES WASHER, HYDRO-MASSAGE BATHTUB, GARBAGE DISPOSAL, AND REFRIGERATOR PER NEC 210.23(E)(3). THE CLOTHES WASHER CIRCUIT MAY SERVE ONE (1) ADDITIONAL OUTLET IN THE LAUNDRY AREA.
- W. ATTIC ACCESS SHALL BE PROVIDED WITH A SWITCHED LIGHT AND 120-VOLT GFCI OUTLET AT OR NEAR THE FORCED AIR UNIT. LOCATE SWITCH AT THE ATTIC ACCESS OPENING.

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROFESSIONAL ENGINEER - STATE OF NEVADA**

CHRISTOPHER J. LOVETT  
Exp: 12/31/25  
ELECTRICAL  
No. 17124  
06/19/2024

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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:** ENLARGED UNIT PLAN - 1B TYPE B

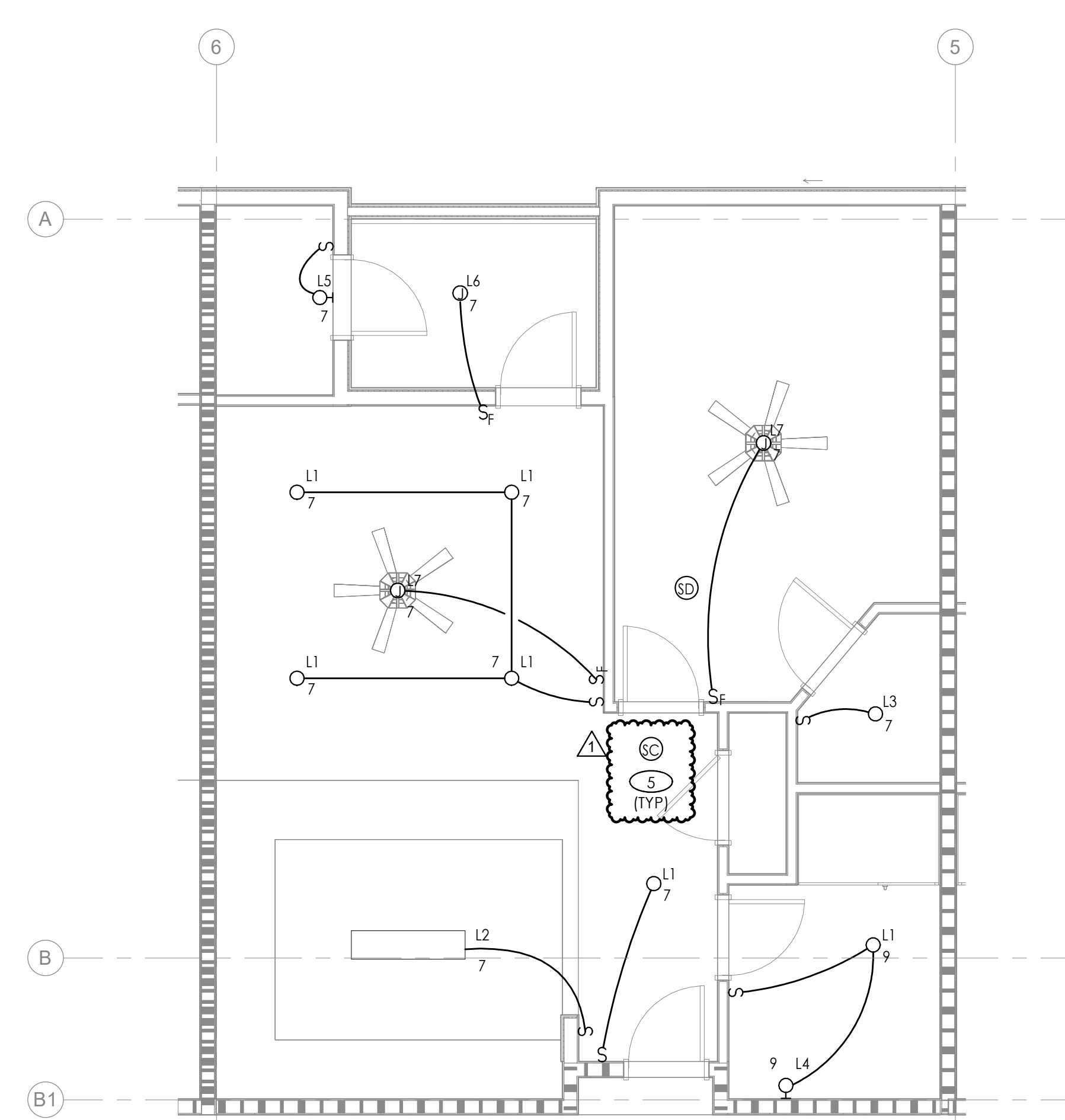
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REVISIONS		
No.	Description	Date
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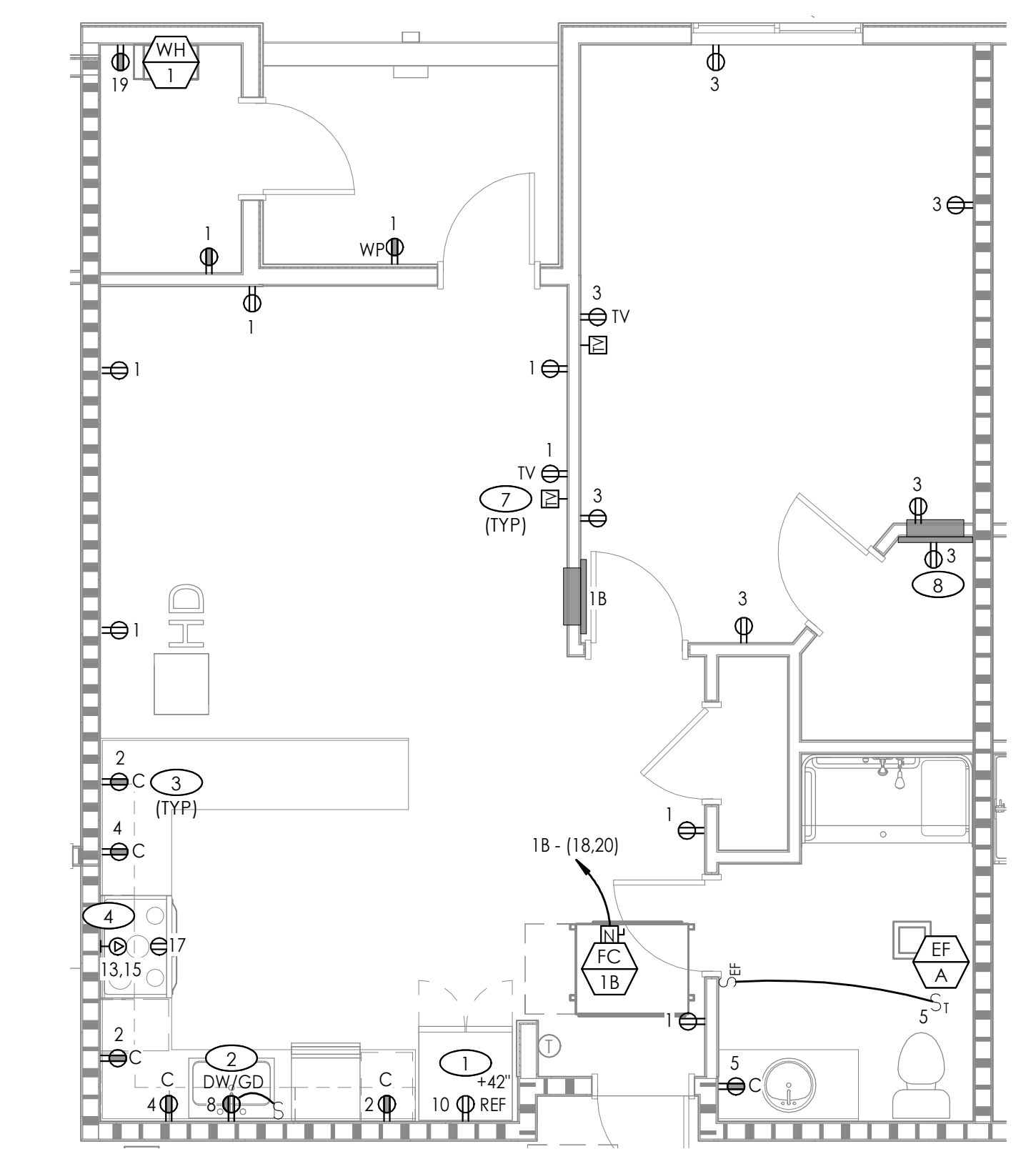
DRAWN BY: RE  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
202407 SCALE 0000000000

SHEET **E4.20**

**(R) EVOLUTION ENGINEERING**  
3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361



**2 ENLARGED LIGHTING PLAN - 1B TYPE B**  
SCALE: 1/4" = 1'-0"



**1 ENLARGED POWER PLAN - 1B TYPE B**  
SCALE: 1/4" = 1'-0"

UNIT LOAD CALCULATION	
PROJECT NAME:	MARION D. BENNETT
PROJECT#	LV23.0030
ROOM TYPE	TYPE 1C
SQUARE FOOTAGE	789 SF
GENERAL LIGHTING LOAD (SQFT X 3VA)	2367 VA
SMALL APPLIANCE LOAD (2 X 1500VA)	3000 VA
LAUNDRY CIRCUIT (1 X 1500VA)	1500 VA
SUBTOTAL #1	6867 VA
1ST 3KVA @ 100%	3000 VA
REM KVA @ 35%	1353 VA
OVER 120KVA @ 25%	0 VA
NEC LOAD	4353 VA
RANGE LOAD ELECTRIC	8000 VA
DRYER LOAD ELECTRIC	5000 VA
HVAC LOAD (TOTAL @ 100%)	4659 VA
FIXED APPLIANCES	
GARBAGE DISPOSAL	800 VA
DISHWASHER	1200 VA
MICROWAVE	1000 VA
WATER HEATER	4500 VA
(TOTAL @ 75%)	5625 VA
TOTAL VOLT-AMPS	27637 VA
TOTAL AMPS (208V, 1PH)	133 A

PANEL: 1C		BUS: 150 A		AIC RATING: 22,000		NEMA... Type 1		3ph						
VOLTAGE: 120/208 Wye 1Ø, 3W		MAINS: 150A MCB		LOCATION: UNIT		MOUNTING: FLUSH								
NOTE	CODE	TRIP	POLE	LOAD DESCRIPTION	CKT	A	B	C	CKT	LOAD DESCRIPTION	POLE	TRIP	CODE	NOTE
1	R	20	1	RECEPT - ENTRY/LIVING	1	0			2	RECEPT - KITCHEN COUNTER	1	20	R	1
1	R	20	1	RECEPT - BEDROOM	3	0			4	RECEPT - KITCHEN COUNTER	1	20	R	1
	R	N	20	1	RECEPT - BATHROOM	5		0	6	KITCHEN DISHWASHER	1	20	R	1
1	L	20	1	LTG - ENTRY/LIVING/BEDROOM	7	0			8	KITCHEN DISPOSAL	1	20	R	1
	L	20	1	LTG - BATHROOM	9			0	10	R	1	20	R	12
				1	SPACE				12	SPACE	1			
1.2	N	20	2	ELECTRIC RANGE	13	0			14	HP-1C	2	20	N	3
				1	SPACE				16					
1.2	R	20	1	RANGE HOOD	17			0	18	IC-1C	2	20	N	4
	R	20	1	WATER HEATER	19	0			20					
				1	SPACE				22	SPACE	1			
				1	SPACE				24	SPACE	1			
				1	SPACE				26	SPACE	1			
				1	SPACE				28	SPACE	1			
				1	SPACE				30	SPACE	1			
PHASE TOTALS (KVA)					ØA:	0.0			ØB:	0.0 KVA				

<b>PANEL NOTES:</b>	<b>TOTAL CONNECTED</b>	<b>WITH NEC DEMAND:</b>	<b>0.0 KVA</b>	<b>0 A</b>
1. PROVIDE AFCI CIRCUIT BREAKER.	CIRCUIT CODE...			
2. PROVIDE GFCI CIRCUIT BREAKER.	(L) LONG...	0.0 KVA @ No...	= 0.0 KVA	0.0 A
3. EQUIPMENT ON ROOF. HACR RATED CIRCUIT BREAKER.	(R) RECEPTACLE	0.0 KVA @ No...	= 0.0 KVA	0.0 A
4. HACR RATED CIRCUIT BREAKER.	(K) KITCHEN	@ No...	=	
	PANEL DEMAND (KVA)			0.0 KVA
	PANEL DEMAND (AMPS)			0.0 A

### SHEET NOTES

- REFRIGERATOR 120V, 12A MAX. PROVIDE 2 #12 CU, 1 #12 CU EGC, CORD AND PLUG CONNECTION.
- PROVIDE TWO SEPARATE CIRCUITS AND DOUBLE GANG BOX FOR GARBAGE DISPOSAL (SWITCHED) AND DISHWASHER (GFI) RECEPTACLES IN AN ACCESSIBLE SPACE. SHARED NEUTRAL NOT ALLOWED. IF DISHWASHER IS MORE THAN 3FT. FROM DISPOSAL THEN EC SHALL PROVIDE A 20A SINGLE POLE RECEPTACLE FOR A DISHWASHER.
- FOR KITCHEN AND BATHROOM RECEPTACLES ABOVE COUNTER, COORDINATE LOCATION AND PLACEMENT PRIOR TO ROUGH-IN. IF FULL BACKSPASH IS USED, MOUNT RECEPTACLES VERTICALLY. IF FULL BACKSPASH IS NOT USED, MOUNT RECEPTACLES HORIZONTALLY ABOVE BACKSPASH.
- ELECTRIC RANGE. PROVIDE HARD-WIRED CONNECTION TO JUNCTION BOX IN CABINET TO RIGHT. COORDINATE EXACT LOCATION MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE LOCKABLE CIRCUIT BREAKER IN PANEL AS DISCONNECTING MEANS TO COMPLY WITH NEC 422.31(B). PROVIDE 2 #6 CU, 1 #10 CU EGC.
- COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE SENSOR. 120V WITH BATTERY BACK-UP. DETECTORS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH IRC 314 AND 315, IFC 908.7, AND NFPA 72 AND 74 WITH SPECIAL ATTENTION GIVEN TO THE LOCATION OF THE DETECTOR IN VICINITY OF RETURN AIR GRILLES. (PROVIDE SMOKE DETECTOR ONLY, WHERE ALLOWED BY CODE).
- ELECTRICAL PANEL. RECESSED FLUSH IN WALL. PAINTED WHITE BY MANUFACTURER.
- TELEVISION. PROVIDE 120V DUPLEX RECEPTACLE, DATA OUTLET, AND COAX CABLE (BOTH WIRED BACK TO LOW VOLTAGE STRUCTURED MEDIA ENCLOSURE). VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- LOW VOLTAGE STRUCTURED MEDIA ENCLOSURE. COORDINATE REQUIREMENTS. PROVIDE 120V DUPLEX RECEPTACLE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE 1-1/4" TO ACCESSIBLE CEILING SPACE.

### NOTICE

- ALL LIGHTING IS SHOWN FOR PRELIMINARY PRICING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT NECESSARY FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO PRICING.
- ALL ELECTRICAL OUTLET BOXES LOCATED ON COMMON WALLS BETWEEN UNITS SHALL BE U.L. LISTED AND TESTED BOXES FOR USE IN FIRE RESISTANCE-RATED ASSEMBLIES AND ARE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS INCLUDED IN THE LISTING. OUTLET BOXES ON OPPOSITE SIDE OF WALL SHALL BE SEPARATED AS FOLLOWS.
  - BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR
  - BY PROTECTION BOTH OUTLET BOXES WITH LISTED PUTTY PADS OR
  - BY USING U.L. LISTED TWO HOUR MINIMUM RATED PLASTIC BOXES WITH U.L. LISTED FIRE PADS.
- LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTAT & OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 47", AND NO LOWER THAN 15" AFF. IF THE REACH IS OVER AN OBSTRUCTION SHALL NOT EXTEND MORE THAN 25" FROM WALL BENEATH A CONTROL.
- ALL PENETRATIONS THRU FIRE RATED WALL AND CEILINGS SHALL BE PROTECTED AS REQUIRED BY U.L. RATED SYSTEMS.
- ALL UNITS OF ALL BUILDINGS SHALL CONFORM WITH ACCESSIBILITY GUIDELINES.
- ALL 120-VOLT SINGLE PHASE, 15 & 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT IN FAMILY ROOMS, KITCHENS, DINING ROOMS, LIVING ROOMS, PARLOUS, DENIS, BEDROOMS, SUNROOMS, REC. ROOMS, CLOSETS, HALLWAYS, LAUNDRY ROOMS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY LISTED ARC-FAULT CIRCUIT INTERRUPTER COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT PER NEC 210.12(A).
- IN ALL AREAS SPECIFIED IN NEC 210.52 ALL 15 & 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.
- THE FOLLOWING DEVICES SHALL HAVE A DEDICATED CIRCUIT: MICROWAVE, TRASH COMPACTOR, MICROWAVE OVEN, REFRIGERATOR, GARBAGE DISPOSAL.
- LIGHT FIXTURES LOCATED ABOVE SHOWER OR TUB ENCLOSURE SHALL BE WET LOCATION LISTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND ADDITIONAL INFORMATION.
- ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS.
- MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS AND COORDINATE ELECTRICAL EQUIPMENT LOCATIONS WITH MECHANICAL EQUIPMENT. MAKE ALL WIRING CONNECTIONS AS REQUIRED.
- COORDINATE LOCATIONS OF FIRE ALARM DEVICES WITH FIRE ALARM SYSTEM SUPPLIER AND ARCHITECTURAL ELEVATIONS.
- BACK TO BACK BOXES ARE NOT PERMITTED BETWEEN UNITS.
- WHERE A SWITCH AND RECEPTACLE ARE ADJACENT TO EACH OTHER THEY SHALL BE INSTALLED IN A MULTI-GANG BOX UNDER ONE FACEPLATE WHERE FEASIBLE.
- WHERE RECEPTACLES AND LOW VOLTAGE DEVICES ARE ADJACENT TO EACH OTHER THEY SHALL BE INSTALLED IN A MULTI-GANG BOX UNDER ONE FACEPLATE WHERE FEASIBLE EXCEPT BEHIND TV. REFER TO DIAGRAMS ON SHEET EX.XX FOR MORE INFORMATION.
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES SHALL BE INSTALLED AS REQUIRED BY CODE.
- SEAL WALL PENETRATIONS WITH APPROPRIATE SEALANTS WHERE PENETRATION IS THROUGH A FIRE RATED WALL USE THE APPROPRIATE SEALANT TO MAINTAIN UL FIRE RATING.
- COORDINATE LOCATION OF THERMOSTAT AND CONNECTION REQUIREMENT WITH MECHANICAL TRADES PRIOR TO ROUGH-IN.
- PROVIDE CONNECTION TO FIRE FEATURE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROUTE CIRCUIT THROUGH WALL MOUNTED SWITCH WITH LABEL TO READ 'FIRE FEATURE DISCONNECT'.
- BALCONIES, DECKS, AND PORCHES ATTACHED TO THE UNIT SHALL HAVE AT LEAST ONE WEATHERPROOF, GFCI RECEPTACLE NOT LOCATED MORE THAN 6 1/2' ABOVE THE FINISHED FLOOR PER NEC 210.52(E)(3).
- THE FOLLOWING FASTENED-IN-PLACE APPLIANCES ARE REQUIRED TO HAVE A SEPARATE MINIMUM 20-AMPERE CIRCUIT: DISHWASHER, TRASH COMPACTOR, MICROWAVE, OVEN, RANGE HOOD, CLOTHES WASHER, HYDRO-MASSAGE BATHTUB, GARBAGE DISPOSAL, AND REFRIGERATOR PER NEC 210.23(E)(3). THE CLOTHES WASHER CIRCUIT MAY SERVE ONE (1) ADDITIONAL OUTLET IN THE LAUNDRY AREA.
- ATTIC ACCESS SHALL BE PROVIDED WITH A SWITCHED LIGHT AND 120-VOLT GFCI OUTLET AT OR NEAR THE FORCED AIR UNIT. LOCATE SWITCH AT THE ATTIC ACCESS OPENING.

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROFESSIONAL ENGINEER - STATE OF NEVADA**

CHRISTOPHER J. LOVETT  
Exp: 12/31/25  
ELECTRICAL  
No. 17124  
06/19/2024

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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

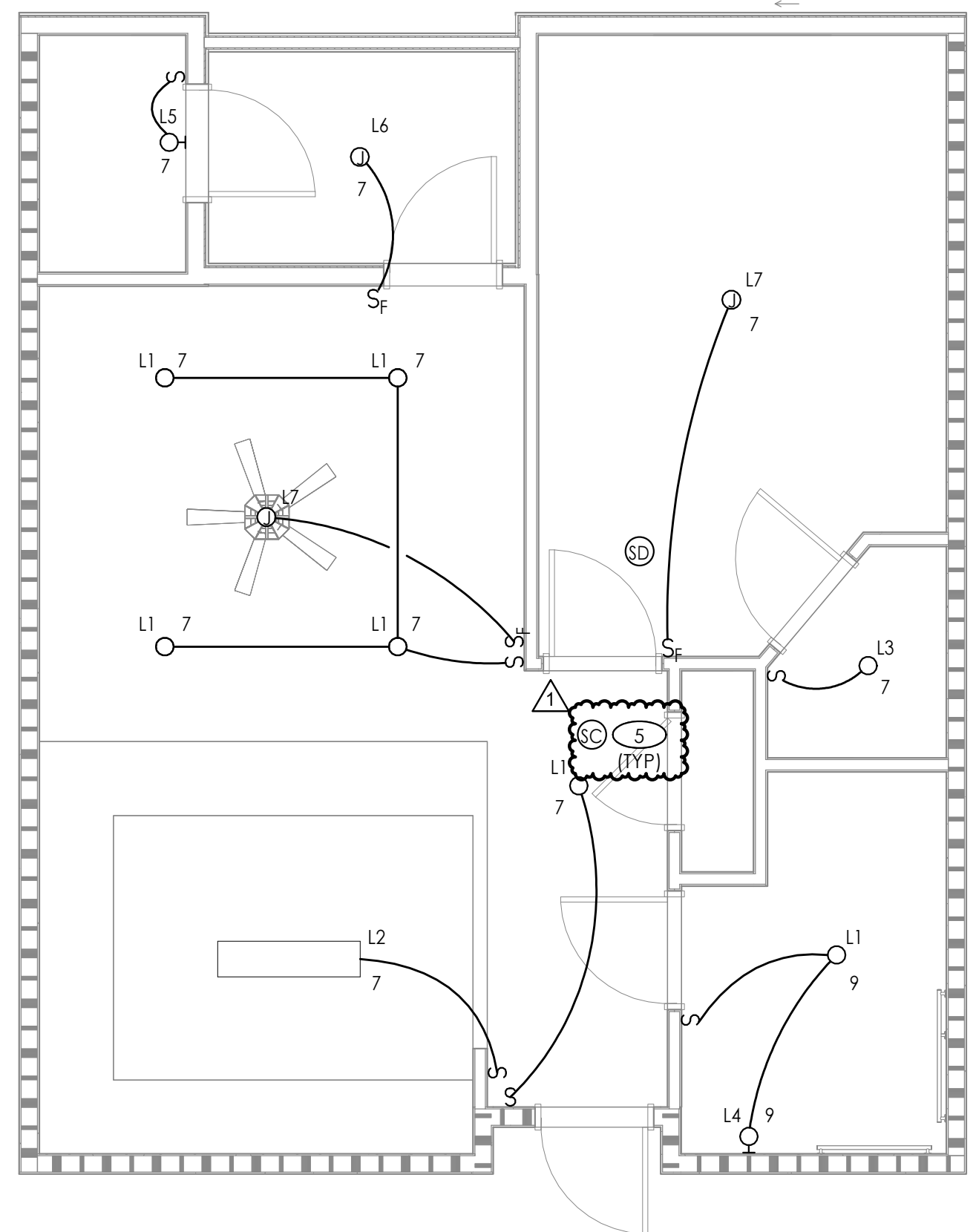
**SHEET TITLE:** ENLARGED UNIT PLAN - 1C TYPE A

**PERMIT**

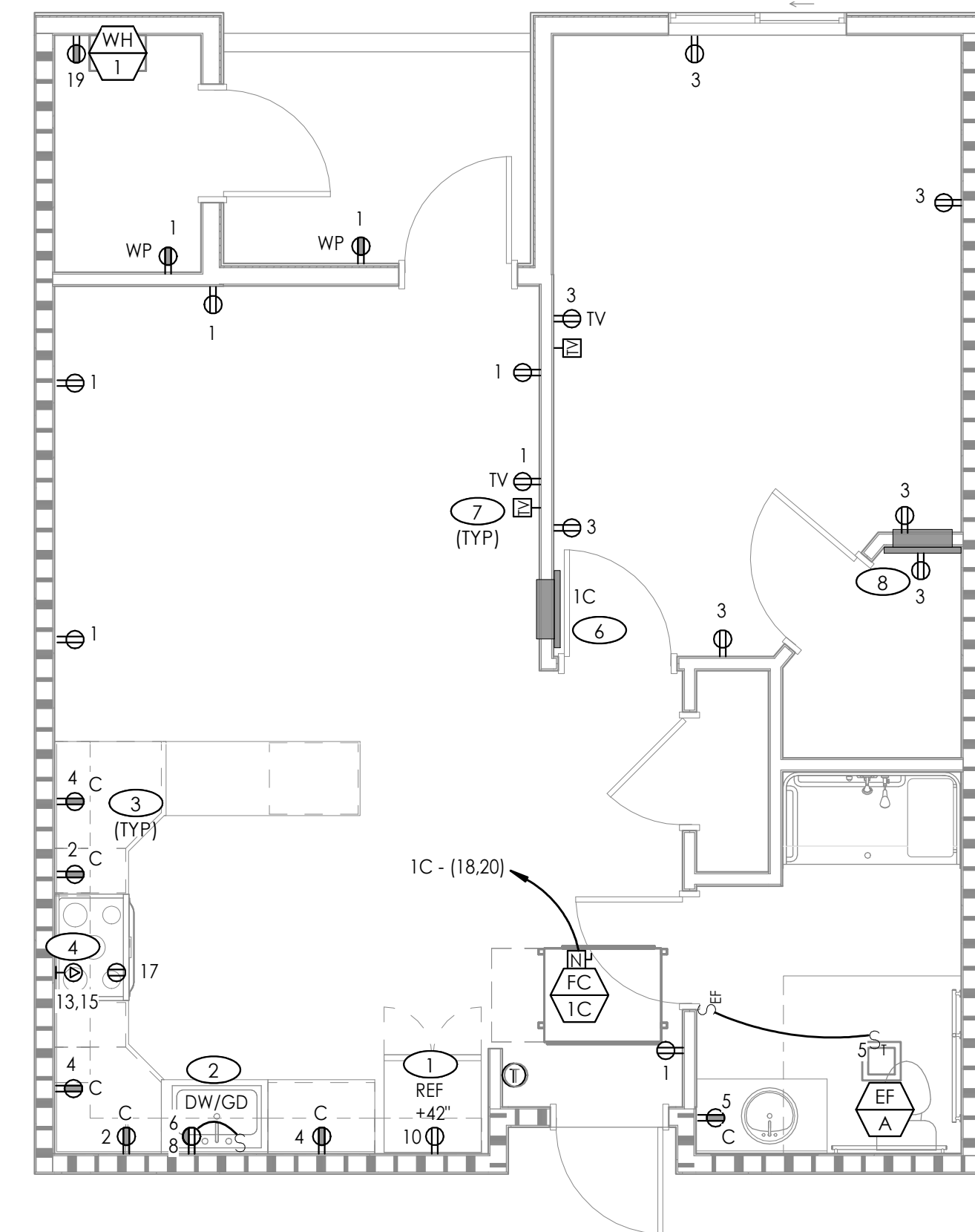
No.	Description	Date
1	CLV COM.	6/21/24

**DRAWN BY:** RE  
**DATE:** 2024-04-25  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED (NOT SCALE DRAWINGS)

**SHEET**



**2 ENLARGED LIGHTING PLAN - 1C TYPE A**  
SCALE: 1/4" = 1'-0"



**1 ENLARGED POWER PLAN - 1C TYPE A**  
SCALE: 1/4" = 1'-0"

**(R) EVOLUTION ENGINEERING**

3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361

**E4.30**

UNIT LOAD CALCULATION	
PROJECT NAME:	MARION D. BENNETT
PROJECT#	LV23.0030
ROOM TYPE	TYPE 2D
SQUARE FOOTAGE	833 SF
GENERAL LIGHTING LOAD (SQFT X 3VA)	2499 VA
SMALL APPLIANCE LOAD (2 X 1500VA)	3000 VA
LAUNDRY CIRCUIT (1 X 1500VA)	1500 VA
SUBTOTAL #1	6999 VA
1ST 3KVA @ 100%	3000 VA
REM KVA @ 35%	1400 VA
OVER 120KVA @ 25%	0 VA
NEC LOAD	4400 VA
RANGE LOAD ELECTRIC	8000 VA
DRYER LOAD ELECTRIC	5000 VA
HVAC LOAD (TOTAL @ 100%)	5179 VA
FIXED APPLIANCES	
GARBAGE DISPOSAL	800 VA
DISHWASHER	1200 VA
MICROWAVE	1000 VA
WATER HEATER	4500 VA
(TOTAL @ 75%)	5625 VA
TOTAL VOLT-AMPS	26204 VA
TOTAL AMPS (208V, 1PH)	136 A

PANEL: 2D		BUS 150 A		AIC RATING: 22,000		NEMA... Type 1		3ph						
VOLTAGE: 120/208 Wye 3Ø, 4W		MAINS: 150A MCB		LOCATION: UNIT		MOUNTING:								
NOTE	CODE	TRIP	POLE	LOAD DESCRIPTION	CKT	A	B	C	CKT	LOAD DESCRIPTION	POLE	TRIP	CODE	NOTE
1	R	20	1	RECEPT - ENTRY/LIVING	1	360			0	2	RECEPT - KITCHEN COUNTER	1	20	R 1
1	R	20	1	RECEPT - BEDROOM	3	180			0	4	RECEPT - KITCHEN COUNTER	1	20	R 1
	R	L	20	1	RECEPT - BATHROOM	5			0	6	KITCHEN DISHWASHER	1	20	R 1
1	L	20	1	LTG - ENTRY/LIVING/BEDROOM	7	0			0	8	KITCHEN DISPOSAL	1	20	R 1
	L	20	1	LTG - BATHROOM	9				0	10	KITCHEN REFRIGERATOR	1	20	R 12
				1	SPACE	11				12	SPACE	1		
1.2	N	20	2	ELECTRIC RANGE	13	0			0	14	HP2D	2	25	N 3
				1	SPACE	15			0	16				
1.2	R	20	1	RANGE HOOD	17				0	18	IC-2-D	2	20	N 4
	R	20	1	WATER HEATER	19	0			0	20				
				1	SPACE	21				22	SPACE	1		
				1	SPACE	23				24	SPACE	1		
				1	SPACE	25				26	SPACE	1		
				1	SPACE	27				28	SPACE	1		
				1	SPACE	29				30	SPACE	1		
PHASE TOTALS (KVA)					0A:	0.4	0B:	0.4	0C:	0.0				

TOTAL CONNECTED CIRCUIT CODE...	0.0 KVA	WITH NEC DEMAND:	0.0 KVA	0.0 A
(L) LONG...	0.0 KVA @ 1.25 =	0.0 KVA	0.0 A	0.0 A
(R) RECEPTACLE	0.0 KVA @ 1.00 =	0.0 KVA	0.0 A	0.0 A
(K) KITCHEN	0.0 KVA @ 1.00 =	0.0 KVA	0.0 A	0.0 A
PANEL DEMAND (KVA)		0.0 KVA		0.0 A
PANEL DEMAND (AMPS)		0.0 A		0.0 A

- PANEL NOTES:**
1. PROVIDE AFCI CIRCUIT BREAKER.
  2. PROVIDE GFCI CIRCUIT BREAKER.
  3. EQUIPMENT ON ROOF. HACR RATED CIRCUIT BREAKER.
  4. HACR RATED CIRCUIT BREAKER.

### SHEET NOTES

- 1 REFRIGERATOR 120V, 12A MAX. PROVIDE 2 #12 CU, 1 #12 CU EGC. CORD AND PLUG CONNECTION.
- 2 PROVIDE TWO SEPARATE CIRCUITS AND DOUBLE GANG BOX FOR GARBAGE DISPOSAL (SWITCHED) AND DISHWASHER (GFI) RECEPTACLES IN AN ACCESSIBLE SPACE. SHARED NEUTRAL NOT ALLOWED. IF DISHWASHER IS MORE THAN 3FT. FROM DISPOSAL THEN EC SHALL PROVIDE A 20A SINGLE POLE RECEPTACLE FOR A DISHWASHER.
- 3 FOR KITCHEN AND BATHROOM RECEPTACLES ABOVE COUNTER. COORDINATE LOCATION AND PLACEMENT PRIOR TO ROUGH-IN. IF FULL BACKSPASH IS USED, MOUNT RECEPTACLES VERTICALLY. IF FULL BACKSPASH IS NOT USED, MOUNT RECEPTACLES HORIZONTALLY ABOVE BACKSPASH.
- 4 ELECTRIC RANGE. PROVIDE HARD-WIRED CONNECTION TO JUNCTION BOX IN CABINET TO RIGHT. COORDINATE EXACT LOCATION MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE LOCKABLE CIRCUIT BREAKER IN PANEL AS DISCONNECTING MEANS TO COMPLY WITH NEC 422.31(B). PROVIDE 2 #6 CU, 1 #10 CU EGC.
- 5 COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE SENSOR. 120V WITH BATTERY BACK-UP. DETECTORS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH IRC 314 AND 315, IFC 908.7, AND NFPA 72 AND 74 WITH SPECIAL ATTENTION GIVEN TO THE LOCATION OF THE DETECTOR IN VICINITY OF RETURN AIR GRILLES. (PROVIDE SMOKE DETECTOR ONLY, WHERE ALLOWED BY CODE).
- 6 ELECTRICAL PANEL. RECESSED FLUSH IN WALL. PAINTED WHITE BY MANUFACTURER.
- 7 TELEVISION. PROVIDE 120V DUPLEX RECEPTACLE, DATA OUTLET, AND COAX CABLE (BOTH WIRED BACK TO LOW VOLTAGE STRUCTURED MEDIA ENCLOSURE). VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- 8 LOW VOLTAGE STRUCTURED MEDIA ENCLOSURE. COORDINATE REQUIREMENTS. PROVIDE 120V DUPLEX RECEPTACLE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE 1-1/4" TO ACCESSIBLE CEILING SPACE.

### NOTICE

- A. ALL LIGHTING IS SHOWN FOR PRELIMINARY PRICING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT NECESSARY FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO PRICING.
- B. ALL ELECTRICAL OUTLET BOXES LOCATED ON COMMON WALLS BETWEEN UNITS SHALL BE U.L. LISTED AND TESTED BOXES FOR USE IN FIRE RESISTANCE-RATED ASSEMBLIES AND ARE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS INCLUDED IN THE LISTING. OUTLET BOXES ON OPPOSITE SIDE OF WALL SHALL BE SEPARATED AS FOLLOWS.
  - a. BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR
  - b. BY PROTECTION BOTH OUTLET BOXES WITH LISTED PUTTY PADS OR
  - c. BY USING U.L. LISTED TWO HOUR MINIMUM RATED PLASTIC BOXES WITH U.L. LISTED FIRE PADS.
- C. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTAT & OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 47", AND NO LOWER THAN 15" AFF. IF THE REACH IS OVER AN OBSTRUCTION SHALL NOT EXTEND MORE THAN 25" FROM WALL BENEATH A CONTROL.
- D. ALL PENETRATIONS THRU FIRE RATED WALL AND CEILINGS SHALL BE PROTECTED AS REQUIRED BY U.L. RATED SYSTEMS.
- E. ALL UNITS OF ALL BUILDINGS SHALL CONFORM WITH ACCESSIBILITY GUIDELINES.
- F. ALL 120-VOLT SINGLE PHASE, 15 & 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT IN FAMILY ROOMS, KITCHENS, DINING ROOMS, LIVING ROOMS, PARLOUS, DENIS, BEDROOMS, SUNROOMS, REC. ROOMS, CLOSETS, HALLWAYS, LAUNDRY ROOMS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY LISTED ARC-FAULT CIRCUIT INTERRUPTER COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT PER NEC 210.12(A).
- G. IN ALL AREAS SPECIFIED IN NEC 210.52 ALL 15 & 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.
- H. THE FOLLOWING DEVICES SHALL HAVE A DEDICATED CIRCUIT: MICROWAVE, TRASH COMPACTOR, MICROWAVE OVEN, REFRIGERATOR, GARBAGE DISPOSAL.
- I. LIGHT FIXTURES LOCATED ABOVE SHOWER OR TUB ENCLOSURE SHALL BE WET LOCATION LISTED.
- J. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND ADDITIONAL INFORMATION.
- K. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS.
- L. MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS AND COORDINATE ELECTRICAL EQUIPMENT LOCATIONS WITH MECHANICAL EQUIPMENT. MAKE ALL WIRING CONNECTIONS AS REQUIRED.
- M. COORDINATE LOCATIONS OF FIRE ALARM DEVICES WITH FIRE ALARM SYSTEM SUPPLIER AND ARCHITECTURAL ELEVATIONS.
- N. BACK TO BACK BOXES ARE NOT PERMITTED BETWEEN UNITS.
- O. WHERE A SWITCH AND RECEPTACLE ARE ADJACENT TO EACH OTHER THEY SHALL BE INSTALLED IN A MULTI-GANG BOX UNDER ONE FACEPLATE WHERE FEASIBLE.
- P. WHERE RECEPTACLES AND LOW VOLTAGE DEVICES ARE ADJACENT TO EACH OTHER THEY SHALL BE INSTALLED IN A MULTI-GANG BOX UNDER ONE FACEPLATE WHERE FEASIBLE EXCEPT BEHIND TV. REFER TO DIAGRAMS ON SHEET EX.XX FOR MORE INFORMATION.
- Q. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLES SHALL BE INSTALLED AS REQUIRED BY CODE.
- R. SEAL WALL PENETRATIONS WITH APPROPRIATE SEALANTS WHERE PENETRATION IS THROUGH A FIRE RATED WALL USE THE APPROPRIATE SEALANT TO MAINTAIN UL FIRE RATING.
- S. COORDINATE LOCATION OF THERMOSTAT AND CONNECTION REQUIREMENT WITH MECHANICAL TRADES PRIOR TO ROUGH-IN.
- T. PROVIDE CONNECTION TO FIRE FEATURE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROUTE CIRCUIT THROUGH WALL MOUNTED SWITCH WITH LABEL TO READ 'FIRE FEATURE DISCONNECT'.
- U. BALCONIES, DECKS, AND PORCHES ATTACHED TO THE UNIT SHALL HAVE AT LEAST ONE WEATHERPROOF, GFCI RECEPTACLE NOT LOCATED MORE THAN 6 1/2' ABOVE THE FINISHED FLOOR PER NEC 210.52(E)(3).
- V. THE FOLLOWING FASTENED-IN-PLACE APPLIANCES ARE REQUIRED TO HAVE A SEPARATE MINIMUM 20-AMPERE CIRCUIT: DISHWASHER, TRASH COMPACTOR, MICROWAVE, OVEN, RANGE HOOD, CLOTHES WASHER, HYDRO-MASSAGE BATHTUB, GARBAGE DISPOSAL, AND REFRIGERATOR PER NEC 210.23(E)(3). THE CLOTHES WASHER CIRCUIT MAY SERVE ONE (1) ADDITIONAL OUTLET IN THE LAUNDRY AREA.
- W. ATTIC ACCESS SHALL BE PROVIDED WITH A SWITCHED LIGHT AND 120-VOLT GFCI OUTLET AT OR NEAR THE FORCED AIR UNIT. LOCATE SWITCH AT THE ATTIC ACCESS OPENING.

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROFESSIONAL ENGINEER - STATE OF NEVADA**

CHRISTOPHER J. LOVETT  
Exp: 12/31/25  
ELECTRICAL  
No. 17124  
06/19/2024

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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave. Las Vegas, NV 89106

PROJECT:

SHEET TITLE:  
**ENLARGED UNIT PLAN - 2D TYPE B**

**PERMIT**

REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: Author  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
SHEET: **E4.40**

**(R) EVOLUTION ENGINEERING**  
3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361

**2 ENLARGED LIGHTING PLAN - 2D TYPE B**  
SCALE: 1/4" = 1'-0"

**1 ENLARGED POWER PLAN - 2D TYPE B**  
SCALE: 1/4" = 1'-0"



UNIT LOAD CALCULATION	
PROJECT NAME:	MARION D. BENNETT
PROJECT#	LV23.0030
ROOM TYPE	TYPE 2E
SQUARE FOOTAGE	833 SF
GENERAL LIGHTING LOAD (SQFT X 3VA)	2499 VA
SMALL APPLIANCE LOAD (2 X 1500VA)	3000 VA
LAUNDRY CIRCUIT (1 X 1500VA)	1500 VA
SUBTOTAL #1	6999 VA
1ST 3KVA @ 100%	3000 VA
REM KVA @ 35%	1400 VA
OVER 120KVA @ 25%	0 VA
NEC LOAD	4400 VA
RANGE LOAD ELECTRIC	8000 VA
DRYER LOAD ELECTRIC	5000 VA
HVAC LOAD (TOTAL @ 100%)	5179 VA
FIXED APPLIANCES	
GARBAGE DISPOSAL	800 VA
DISHWASHER	1200 VA
MICROWAVE	1000 VA
WATER HEATER	4500 VA
(TOTAL @ 75%)	5625 VA
TOTAL VOLT-AMPS	26204 VA
TOTAL AMPS (208V, 1PH)	136 A

PANEL: 2E		BUS 150 A		AIC RATING: 20,000		NEMA... Type 1		3ph						
VOLTAGE: 120/208 Wye 3Ø, 4W		MAINS: 150A MCB		LOCATION: UNIT		MOUNTING: FLUSH								
NOTE	CODE	TRIP	POLE	LOAD DESCRIPTION	CKT	A	B	C	CKT	LOAD DESCRIPTION	POLE	TRIP	CODE	NOTE
	1	R	20	RECEPT - ENTRY/LIVING	1	0			2	RECEPT - KITCHEN COUNTER	1	20	R	1
	1	R	20	RECEPT - BEDROOM	3		0		4	RECEPT - KITCHEN COUNTER	1	20	R	1
	1	R	20	RECEPT - BEDROOM	5			0	6	KITCHEN DISHWASHER	1	20	R	1
	R,N	20	1	RECEPT - BATHROOM	7	0			8	KITCHEN DISPOSAL	1	20	R	1
	1	L	20	LTG - ENTRY/LIVING/BEDROOM	9		0		10	KITCHEN REFRIGERATOR	1	20	R	12
	L	20	1	LTG - BATHROOM	11			D	12	SPACE	1	--	--	--
	1,2	N	20	2 ELECTRIC RANGE	13	0			14	HP-2E	2	25	N	3
	--	--	--	--	15			0	16	--	--	--	--	--
	1,2	R	20	1 RANGE HOOD	17				18	IC-2E	2	20	N	4
	R	20	1	WATER HEATER	19	0			20	--	--	--	--	--
	--	--	--	1 SPACE	21				22	SPACE	1	--	--	--
	--	--	--	1 SPACE	23				24	SPACE	1	--	--	--
	--	--	--	1 SPACE	25				26	SPACE	1	--	--	--
	--	--	--	1 SPACE	27				28	SPACE	1	--	--	--
	--	--	--	1 SPACE	29				30	SPACE	1	--	--	--
PHASE TOTALS (KVA)					0A:	0.0	0B:	0.0	0C:	0.0				

TOTAL CONNECTED CIRCUIT CODE...	0.0 KVA	WITH NEC DEMAND:	0.0 KVA	0.0 A
(L) LONG...	0.0 KVA @ 1.25 =	0.0 KVA	0.0 A	
(R) RECEPTACLE	0.0 KVA @ 1.00 =	0.0 KVA	0.0 A	
(K) KITCHEN	0.0 KVA @ 1.00 =	0.0 KVA	0.0 A	
PANEL DEMAND (KVA)		0.0 KVA		
PANEL DEMAND (AMPS)		0.0 A		

- PANEL NOTES:**
1. PROVIDE AFCI CIRCUIT BREAKER.
  2. PROVIDE GFCI CIRCUIT BREAKER.
  3. EQUIPMENT ON ROOF. HACR RATED CIRCUIT BREAKER.
  4. HACR RATED CIRCUIT BREAKER.

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**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROFESSIONAL ENGINEER - STATE OF NEVADA**

CHRISTOPHER J. LOVETT  
Exp: 12/31/25  
ELECTRICAL  
No. 17172  
06/19/2024

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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave. Las Vegas, NV 89106

**SHEET TITLE:** ENLARGED UNIT PLAN - TYPE 2E

**PERMIT**

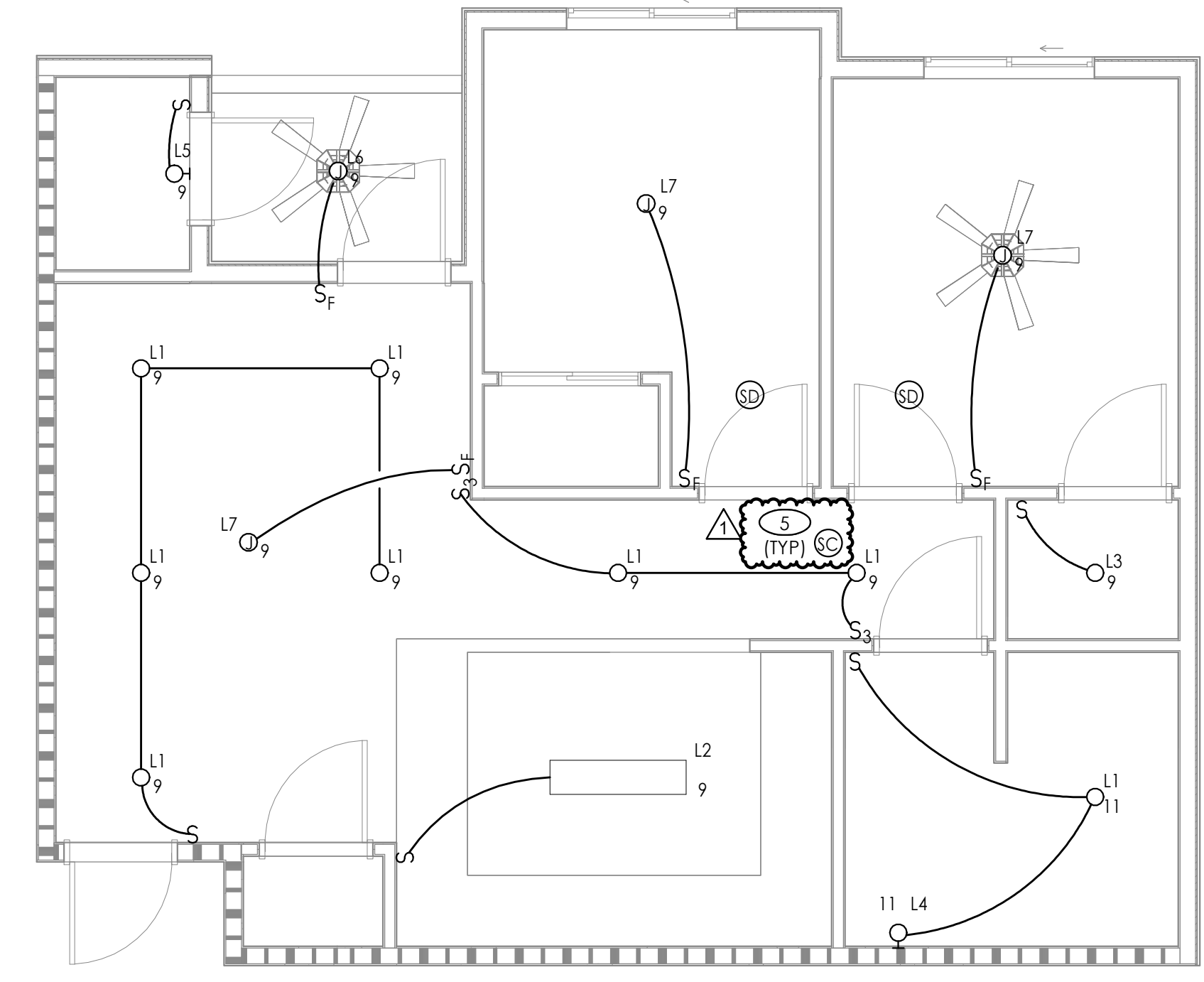
REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: Author  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
202407 SCALE 0000000000

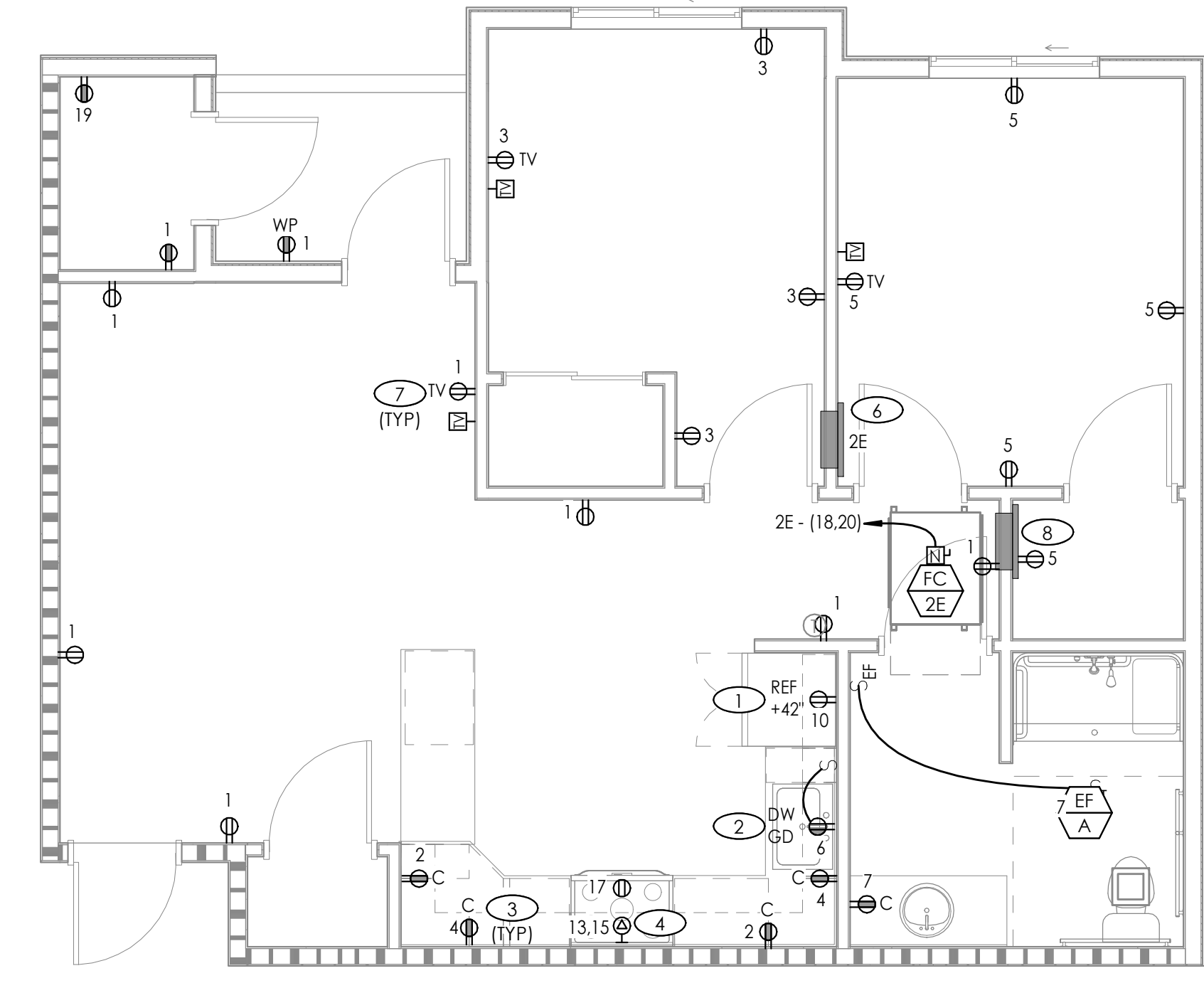
SHEET **E4.50**

**(R) EVOLUTION ENGINEERING**

3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361

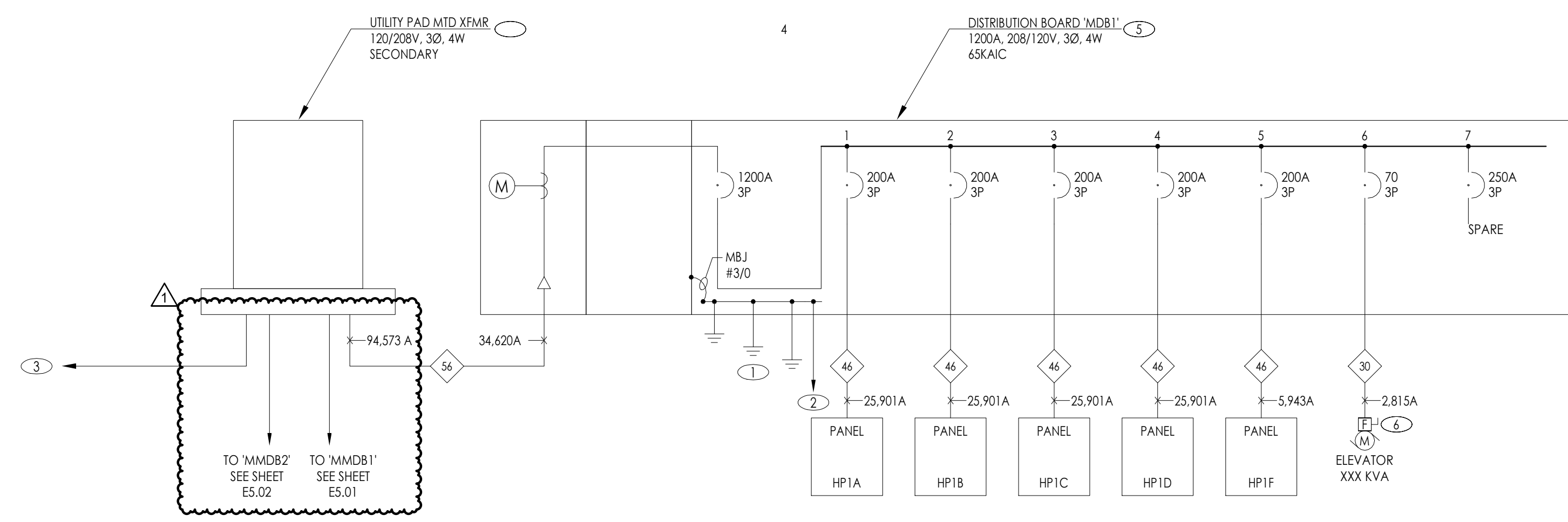


**2 ENLARGED LIGHTING PLAN - TYPE 2E**  
SCALE: 1/4" = 1'-0"



**1 ENLARGED POWER PLAN - TYPE 2E**  
SCALE: 1/4" = 1'-0"

D  
C  
B  
A



### NOTICE

- A. CALCULATED FAULT CURRENT SHALL BE LABELED AT EACH SERVICE PER NEC 110.24.
- B. ALL SWITCHBOARDS AND DISTRIBUTION EQUIPMENT SHALL COMPLY WITH NEC ARTICLE 240.87 FOR ARC ENERGY REDUCTION.

### SHEET NOTES

- ① PROVIDE #3/0 GEC TO ALL GROUNDING ELECTRODES AS INDICATED. PROVIDE SECONDARY GROUNDING ELECTRODES PER NEC 250.52(A)(1), (2), AND (3). ALL GROUNDING ELECTRODES SHALL BE BONDED TOGETHER PER NEC 250.50. METAL PIPING AND GROUNDING SHALL BE BONDED AT SERVICE PER NEC 250.104.
- ② PROVIDE INTER-SYSTEM BONDING JUMPER PER NEC 250.94.
- ③ (8) 4" CONDUITS BY CONTRACTOR. CONDUCTORS BY NVE. VERIFY EXACT REQUIREMENTS WITH UTILITY PRIOR TO ROUGH-IN.
- ④ NEW UTILITY TRANSFORMER. VERIFY INSTALLATION REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ROUGH-IN.
- ⑤ PROVIDE ELECTRICAL SERVICE DISCONNECT SIGNAGE TO IDENTIFY EACH SERVICE DISCONNECT. PROVIDE SITE MAP/PLACARD SHOWING EACH SERVICE DISCONNECT LOCATION PER NEC 230.208 AND THE SOUTHERN NEVADA AMENDMENTS TO THE NEC.
- ⑥ BUSMANN #PS-1-T48-R1-K-G-N1-B-F1-Y OR APPROVED EQUAL. FUSE SIZED PER MANUFACTURER RECOMMENDATION.

### ELECTRICAL LOAD CALCULATIONS

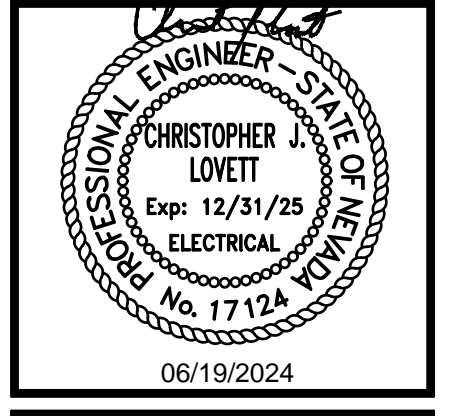
DISTRIBUTION BOARD 'MDB1'			
PANEL 'HP1A'	=	42.6	KVA
PANEL 'HP1B'	=	42.5	KVA
PANEL 'HP1C'	=	47.9	KVA
PANEL 'HP1D'	=	9.1	KVA
PANEL 'HP1F'	=	62.5	KVA
ELEVATOR	=	0	KVA
TOTAL	=	142.1	KVA
/208V 3Ø	=	395	A

### FEEDER SCHEDULE

#	FEEDER NUMBER	DESCRIPTION	CONDUIT AND WIRE SIZE (75°C CU 600V, 105°C 15 AND 5KV)
30	70A	ELEVATOR FEEDER	1 1/4" - 3 #4 & 1 #6 GND
44	150A	DISTRIBUTION FEEDER	2" - 4 #1/0 & 1 #6 GND
46	200A	DISTRIBUTION FEEDER	2" - 4 #3/0 & 1 #6 GND
48	250A	DISTRIBUTION FEEDER	3" - 4 #250KCM & 1 #4 GND
51	400A	PARALLEL FEEDER	(2) 2" EACH WITH 4 #3/0 & 1 #2 GND
56	1200A	PARALLEL FEEDER	(4) 4" BY CONTRACTOR. FEEDERS BY UTILITY.
P0	15KVA	XFMR 208V PRIMARY FEEDER	1" - 4 #6 & 1 #8 GND
S0	15KVA	XFMR 480V SECONDARY FEEDER	3/4" - 3 #10 & 1 #10 GND

- 1. SOME FEEDERS MAY NOT BE USED ON THIS PROJECT.
- 2. VOLTAGE DROP MAY REQUIRE THE USE OF A LARGER AMPACITY FEEDER.
- 3. 'A' FEEDERS INDICATE 3- 3W SERVICE IN LIEU OF 3-, 4W.
- 4. 'B' FEEDERS INDICATE DOUBLE NEUTRAL CONDUCTORS. INCREASE CONDUIT SIZE PER NEC CHAPTER 9.
- 5. 'C' FEEDERS INDICATE ADDED ISOLATED GROUND CONDUCTOR (SEE SAME AS EQUIPMENT GROUND). INCREASE CONDUIT SIZE PER NEC CHAPTER 9.
- 6. MEDIUM VOLTAGE FEEDER AMPACITIES BASED UPON 3 CIRCUITS, UNDERGROUND DUCT BANK.
- 7. CONDUCTORS FOR TERMINATION ON 100% RATED DEVICES SHALL BE 90°C, APPLIED AT 75°C RATINGS.

**KME ARCHITECTS**  
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 Suite #103  
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 Office: 702.888.2088  
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 1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
**SINGLE LINE DIAGRAM**

**PERMIT**

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: RE  
 DATE: 2024-04-25  
 JOB NO: 2023-014  
 SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

**(R)EVOLUTION ENGINEERING**  
 3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3361

SHEET  
**E5.00**

### NOTICE

- A. CALCULATED FAULT CURRENT SHALL BE LABELED AT EACH SERVICE PER NEC 110.24.
- B. ALL SWITCHBOARDS AND DISTRIBUTION EQUIPMENT SHALL COMPLY WITH NEC ARTICLE 240.87 FOR ARC ENERGY REDUCTION.

### SHEET NOTES

- 1 PROVIDE #3/0 GEC TO ALL GROUNDING ELECTRODES AS INDICATED. PROVIDE SECONDARY GROUNDING ELECTRODES PER NEC 250.52(A)(1), (2), AND (3). ALL GROUNDING ELECTRODES SHALL BE BONDED TOGETHER PER NEC 250.50. METAL PIPING AND GROUNDING SHALL BE BONDED AT SERVICE PER NEC 250.104.
- 2 PROVIDE INTER-SYSTEM BONDING JUMPER PER NEC 250.94.
- 3 TABLE 'A' ASSUMES A MAXIMUM VOLTAGE DROP OF 3% TO THE UNIT PANELS WITH 118 AMPS LOAD ON A 150 AMPERE BUS RATED PANEL. THE ELECTRICAL CONTRACTOR SHALL DETERMINE THE FINAL LENGTH OF FEEDER RUN AND USE THE APPROPRIATE CONDUCTOR SIZES. THE PANEL GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY IN ACCORDANCE WITH 250.122.B OF THE 2017 NEC. UNIT PANEL TERMINATION RATING AND CONDUCTOR ARE BASED ON 75° C.
- 4 (3) 4" CONDUITS BY CONTRACTOR. CONDUCTORS BY UTILITY. VERIFY EXACT REQUIREMENTS WITH UTILITY PRIOR TO ROUGH-IN.
- 5 NEW UTILITY TRANSFORMER. VERIFY INSTALLATION REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ROUGH-IN.
- 6 FAULT VALUES INDICATED ARE FOR UNITS CLOSEST TO MAIN EQUIPMENT AND ARE WORST CASE SCENARIOS. OTHER UNITS ARE FURTHER FROM THE MAIN SWITCH BOARD WITH IDENTICAL WIRE SIZES. THIS FAULT CURRENT IS GREATLY REDUCED. NO FAULT CURRENT EXCEEDS 22,000A.
- 7 PROVIDE ELECTRICAL SERVICE DISCONNECT SIGNAGE TO IDENTIFY EACH SERVICE DISCONNECT. PROVIDE SITE MAP/PLACARD SHOWING EACH SERVICE DISCONNECT LOCATION PER NEC 230.20B AND THE SOUTHERN NEVADA AMENDMENTS TO THE NEC.

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmeearchitects.com  
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**PROFESSIONAL ENGINEER - STATE OF NEVADA**

CHRISTOPHER J. LOVETT  
Exp: 12/31/25  
No. 17121  
06/19/2024

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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

PROJECT:

SHEET TITLE: SINGLE LINE DIAGRAM

PERMIT

REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: RE  
DATE: 2024-04-25  
JOB NO: 2023-014  
SCALE: AS INDICATED  
DO NOT SCALE DRAWINGS

SHEET  
**E5.01**

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3590 E. PATRICK LANE  
LAS VEGAS, NV 89120  
702-514-3361

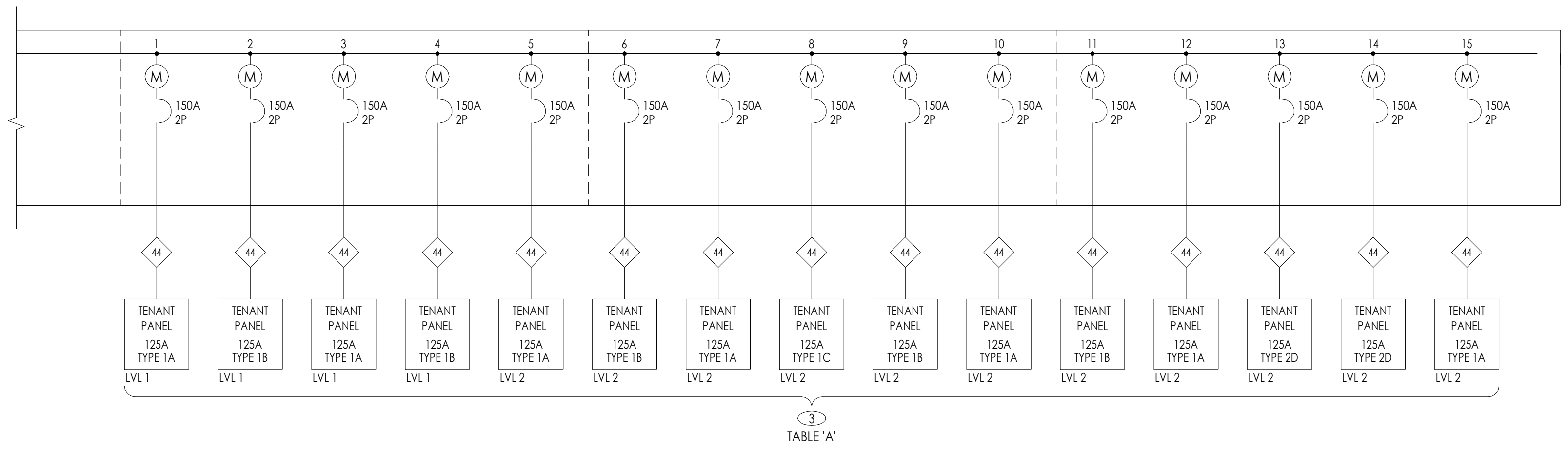
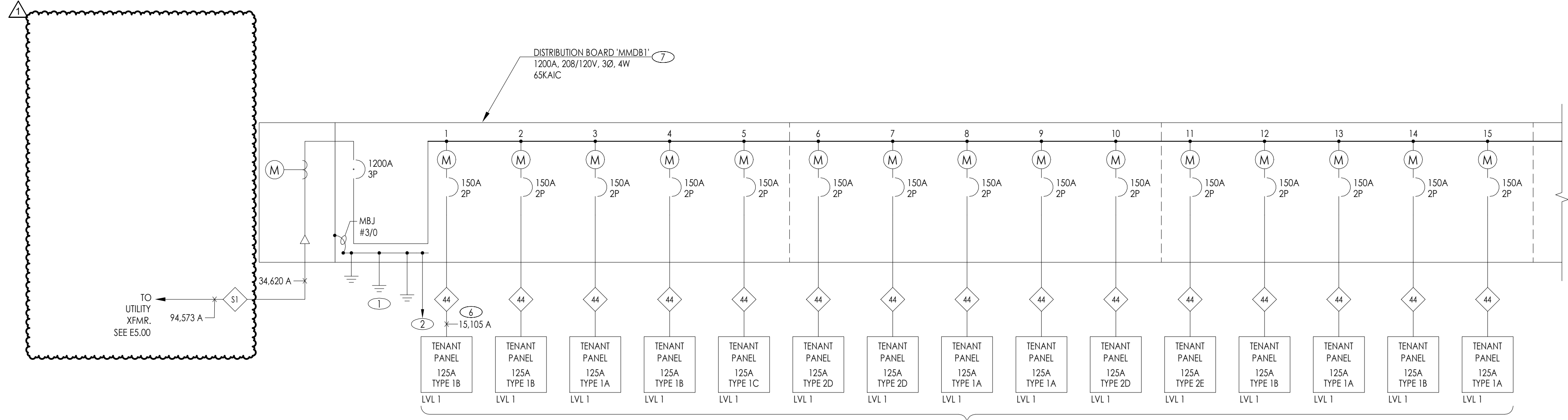


TABLE 'A'	MAX DISTANCE (FT) FOR WIRE SIZE (CU)				
	1/0	2/0	3/0	4/0	5/0
ALL BUILDINGS	130	166	209	264	312
SERVICE TO PANEL W/ 150A BKR					

TABLE BASED ON A 3% VOLTAGE DROP TO UNIT PANEL

LOAD CALCULATION					
MARION D BENNETT SR PLAZA					
RESIDENTIAL PANEL LOAD CALC	MMDB1	RESIDENTIAL RISER LOAD CALC			
ROOM TYPE	VARIOUS	NUMBER OF ROOMS	30		
SQUARE FOOTAGE	784 SQ. FT.		23580	SQ. FT.	
GENERAL LIGHTING LOAD (SQFT X 3VA)	2358 VA		70740	VA	
SMALL APPLIANCE LOAD 1500VA	3000 VA		90000	VA	
LAUNDRY CIRCUIT	1500 VA		45000	VA	
RANGE LOAD	8000 VA		240000	VA	
DRYER LOAD	5000 VA		150000	VA	
FIXED APPLIANCES					
GARBAGE DISPOSAL	800 VA		24000	VA	
DISHWASHER	1200 VA		36000	VA	
MICROWAVE	1000 VA		30000	VA	
WATER HEATER	9000 VA		270000	VA	
SUBTOTAL #1	31858 VA		955740	VA	
1ST 10KVA @ 100% REM KVA @ 40%	10000 VA 8743.2 VA	DEMAND PER NEC 220.84	33	%	
NEC LOAD	18743.2 VA		315395	VA	
HVAC LOAD (TOTAL @ 100%)	7424 VA		73517.4	VA	
TOTAL VOLT-AMPS (TOTAL @ 100%)	26169.2 VA	TOTAL VOLT-AMPS	388912.4	VA	
TOTAL AMPS (208V, 1PH)	124 A	TOTAL AMPS (208V, 3PH)	1081	A	

FEEDER SCHEDULE			
#	FEEDER NUMBER	DESCRIPTION	CONDUIT AND WIRE SIZE (75°C CU 600V, 105°C 15 AND 5KV)
	44	150A, DISTRIBUTION FEEDER	2"-4 #1/0 & 1 #6 GND
	S1	1200A UTILITY FEED	(4) 4" BY CONTRACTOR. FEEDERS BY UTILITY.

1. SOME FEEDERS MAY NOT BE USED ON THIS PROJECT.  
2. VOLTAGE DROP MAY REQUIRE THE USE OF A LARGER AMPACITY FEEDER.  
3. 'A' FEEDERS INDICATE 3-ØW SERVICE IN LIEU OF 3-Ø, 4W.  
4. 'B' FEEDERS INDICATE DOUBLE NEUTRAL CONDUCTORS, INCREASE CONDUIT SIZE PER NEC CHAPTER 9.  
5. 'C' FEEDERS INDICATE ADDED ISOLATED GROUND CONDUCTOR (SIZE SAME AS EQUIPMENT GROUND), INCREASE CONDUIT SIZE PER NEC CHAPTER 9.  
6. MEDIUM VOLTAGE FEEDER AMPACITIES BASED UPON 3 CIRCUITS, UNDERGROUND DUCT BANK.  
7. CONDUCTORS FOR TERMINATION ON 100% RATED DEVICES SHALL BE 90°C, APPLIED AT 75°C RATINGS.

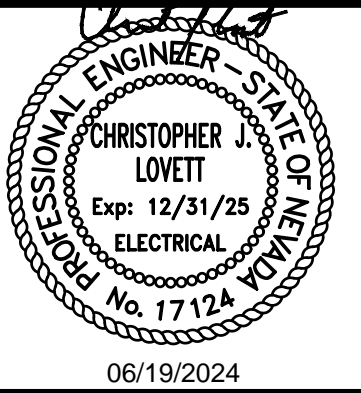
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- ⑤ NEW UTILITY TRANSFORMER. VERIFY INSTALLATION REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ROUGH-IN.
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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave, Las Vegas, NV 89106

PROJECT:

SHEET TITLE: SINGLE LINE DIAGRAM

PERMIT

REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: RE  
 DATE: 2024-04-25  
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SHEET  
**E5.02**

**(R)EVOLUTION ENGINEERING**  
 3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 702-514-3361

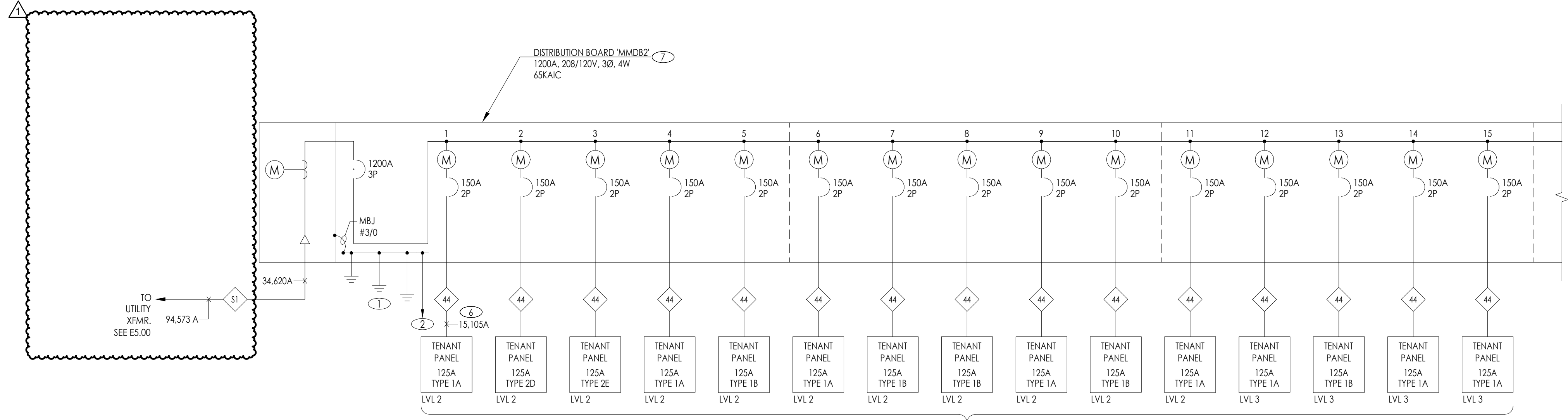


TABLE 'A'

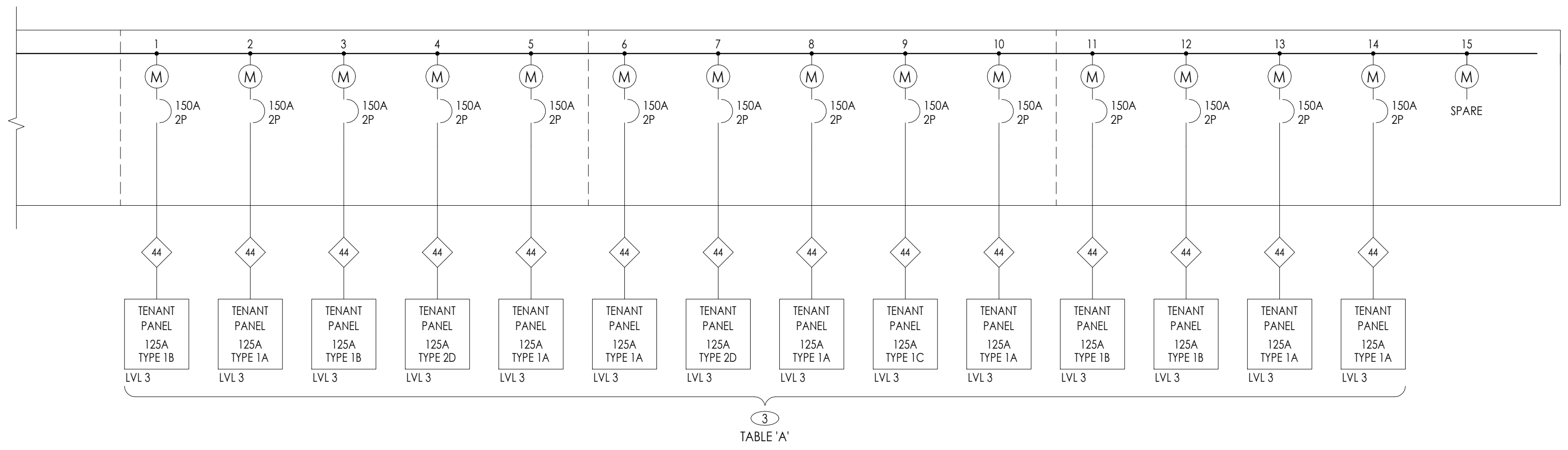


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TABLE BASED ON A 3% VOLTAGE DROP TO UNIT PANEL

### LOAD CALCULATION

MARION D BENNETT SR PLAZA					
RESIDENTIAL PANEL LOAD CALC	MMDB2	RESIDENTIAL RISER LOAD CALC			
ROOM TYPE	VARIOUS	NUMBER OF ROOMS	29		
SQUARE FOOTAGE	781 SQ. FT.		22649	SQ. FT.	
GENERAL LIGHTING LOAD (SQFT X 3VA)	2343 VA		67947	VA	
SMALL APPLIANCE LOAD 1500VA	3000 VA		87000	VA	
LAUNDRY CIRCUIT	1500 VA		43500	VA	
RANGE LOAD	8000 VA		232000	VA	
DRYER LOAD	5000 VA		145000	VA	
FIXED APPLIANCES					
GARBAGE DISPOSAL	800 VA		23200	VA	
DISHWASHER	1200 VA		34800	VA	
MICROWAVE	1000 VA		29000	VA	
WATER HEATER	9000 VA		261000	VA	
SUBTOTAL #1	31843 VA		923447	VA	
1ST 10KVA @ 100% DEMAND PER NEC 220.84	10000 VA		33	%	
REM KVA @ 40%	8737.2 VA				
NEC LOAD	7316.0 VA		304738	VA	
HVAC LOAD (TOTAL @ 100%)	7424 VA		71066.82	VA	
TOTAL VOLT-AMPS (TOTAL @ 100%)	14742.0 VA		375804.8	VA	
TOTAL AMPS [208V, 1PH]	71 A		1045	A	

### FEEDER SCHEDULE

#	FEEDER NUMBER	DESCRIPTION	CONDUIT AND WIRE SIZE (75°C CU 600V, 105°C 15 AND 5KV)
44	150A	DISTRIBUTION FEEDER	2"-4 #1/0 & 1 #6 GND
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7. CONDUCTORS FOR TERMINATION ON 100% RATED DEVICES SHALL BE 90°C, APPLIED AT 75°C RATINGS.



PROJECT NUMBER: 729-086-241

DATE: April 25, 2024  
REVISED: July 12, 2024

Pages: 2, 4-7, 10, 13-18, 24,  
26-28, 33-63, 65, 69, 75-101

# LRN

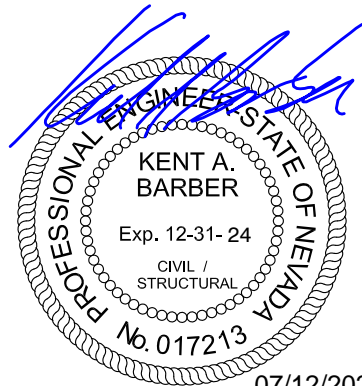
L. R. NELSON CONSULTING ENGINEERS

**STRUCTURAL CALCULATIONS**

for  
**SNRHA BENNET PLAZA**  
at  
**1818 BALZAR AVE**  
**LAS VEGAS, NEVADA**

*Design is per the 2021 IBC*

for  
**KME ARCHITECTS**



07/12/2024

**BY:**

\_\_\_\_\_  
**KENT A. BARBER, P.E., S.E.**  
**PRESIDENT**

**FOR: L. R. NELSON CONSULTING ENGINEERS, LLC**

6765 West Russell Road, Suite 200  
Las Vegas, Nevada 89118  
Ph. 702.798.7978  
Fax. 702.451.2296

51 West 9000 South  
Sandy Utah 84070  
Ph. 801.565.8580  
Fax. 801.565.9340

These engineering calculations are valid only for the address or lot listed above and shall be sealed by an engineer authorized to represent L.R. Nelson Consulting Engineers. They shall not be used for any other location or structure without the express written consent of this firm.

## L.R. NELSON CONSULTING ENGINEERS

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_

OF \_\_\_\_\_

SUBJECT: DESIGN CRITERIA

DESIGNED MS

CHECKED KAB

- 1 Structural design is based on the International Building Code. 2021
- 2 Basic Wind and Seismic Load Design Criteria: Risk Category II
- |  |                       |                   |     |                   |         |
|--|-----------------------|-------------------|-----|-------------------|---------|
| a. Wind Speed (3 second Gust) =              | 100 MPH               | Exposure =        | C   | G <sub>cp</sub> = | +/-0.18 |
| b. Seismic Design Category =                 | D                     |                   |     |                   |         |
| Seismic Factors:                             | S <sub>s</sub> = 64%  | S <sub>1</sub> =  | 21% | R                 | 6.5     |
| Equivalent Lateral Force                     | S <sub>ds</sub> = 55% | S <sub>d1</sub> = | 30% | I <sub>e</sub> =  | 1.00    |
| Seismic base shear, E = C <sub>s</sub> x W = |                       | Site Class =      | D   | C <sub>s</sub> =  | 0.08    |
- 3 Roof Trusses to be designed by truss manufacturer. **Truss calculations and truss layout must be provided to the engineer of record prior to construction for review and approval.**
- 4 Lumber:
- a. 2x framing shall be Douglas Fir #2 grade, unless noted otherwise.
  - b. 4x framing shall be Douglas Fir #2 grade, unless noted otherwise.
  - c. 6x framing shall be Douglas Fir #1 grade, unless noted otherwise.
- 5 Glue-Laminated Beams: 24F-V4 DF/DF  
(24F-V8 DF/DF at cantilever and continuous beams)
- 6 Wood Structural Panels: Plywood or Oriented Strand Board (O.S.B)
- 7 Anchor Bolts: ASTM F1554-36
- 8 Connection Hardware: Simpson Strong Tie or ICC approved Equal
- 9 Concrete: Minimum compressive strength of 2500 psi @ 28 days  
Cement for all concrete shall be Type II
- 10 Reinforcing Steel: ASTM A615, Grade 60 or ASTM A706, Grade 60 (welded reinforcing)
- 11 Foundations are designed for 2500 psf allowable soil bearing pressure.
- 12 Floor Trusses to be designed by truss manufacturer.  
Truss calculations and truss layout must be provided to the engineer of record prior to construction for review and approval.
- 13 Shear wall materials, nailing, etc, as per attached Shear Wall Schedule.
- 14 Unless noted otherwise, all rolled steel shapes and plates shall be per ASTM A36 except W shapes shall be ASTM A992.
- 15 All steel pipe columns shall be per ASTM A53 Grade B. All HSS shapes shall be ASTM A500 Grade C.
- 16 Welding shall be with E70XX low hydrogen electrodes in an approved fabricating facility. All field welds shall have constant special inspection.
- 17 Steel shop drawing layouts must be provided to the engineer of record prior to construction for review and approval.
- 18 Inspection: As required by governing municipality.
- 19 Special Inspection: As required per Section 1705 of the IBC.
- 20 L. R. Nelson Consulting Engineers assumes no liability for the architectural aspects of the provided plans (prepared by others), such as; dimensions, elevations, or sections. All architectural aspects are to be verified by the general contractor.

**L. R. NELSON CONSULTING ENGINEERS**

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_

OF \_\_\_\_\_

SUBJECT: BUILDING LOADS

DESIGNED MS

CHECKED KAB

**ROOF**

CONCRETE TILE	12.00
15/32" SHEATHING	1.60
ROOF FRAMING/MFR TRUSSES	3.00
INSULATION (R30 BATT)	2.70
1/2" GYPSUM	2.20
M, E & MISC.	1.50
	DL 23.00
	LL 20.00
SEISMIC SNOW 0.00	SNOW

**ALTERNATE LOAD #1**

Load Type \_\_\_\_\_

M,E & MISC.	
	DL 0.00
Description of Load	

**2ND FLOOR**

(WHERE OCCURS)

FLOOR COVERING - CARPET, VINYL, ET	2.00
3/4" SHEATHING	2.40
MF'G FLR TRUSSES /FRAMING	2.80
2X4 @ 16" OC FRAMING	1.41
INSULATION (R30 BATT)	2.70
5/8" GYPSUM	2.75
M, E & MISC.	5.94
	DL 20.00
	LL 40.00

**ALTERNATE LOAD #2**

Load Type \_\_\_\_\_

M,E & MISC.	
	DL 0.00
Description of Load	

**EXTERIOR WALLS**

1 COAT STUCCO	7.00
2X4 @ 16" OC FRAMING	1.41
WALL INSULATION	1.00
15/32" SHEATHING	1.60
1/2" GYPSUM	2.20
MISC.	2.79
	DL 16.00

**OVERFILL**

(WHERE OCCURS)

15/32" SHEATHING	1.60
OVERFILL RAFTERS	3.40
	DL 5.00

**ALT. FLOOR LIVE LOAD**

LL 100.00

**BASE DESIGN VALUES**

	DFL (STUD)	DFL #2	DFL #1 (TIMBERS)	24F-V4	24F-V8	LSL (1.5E)	LVL	PSL	
F <sub>B</sub>	700	900	1,350	2,400	2,400	2,250	2,600	2,900	PSI
F <sub>V</sub>	180	180	170	240	240	400	285	290	PSI
F <sub>C</sub>	850	1350	925	1650	1650	1,950	2,510	2,500	PSI
F <sub>C(PERP)</sub>	625	625	625	650	650	775	750	750	PSI
F <sub>t</sub>	450	575	675	1100	1100	1950	2600	2900	PSI
E	1,400,000	1,600,000	1,600,000	1,800,000	1,800,000	1,500,000	1,900,000	2,000,000	PSI

DEFLECTION CRITERIA:  $\Delta_{TLallow} = L/240$   
 $\Delta_{LLallow} = L/360$



ADDED PAGE

# FRAMING

L. R. NELSON CONSULTING ENGINEERS

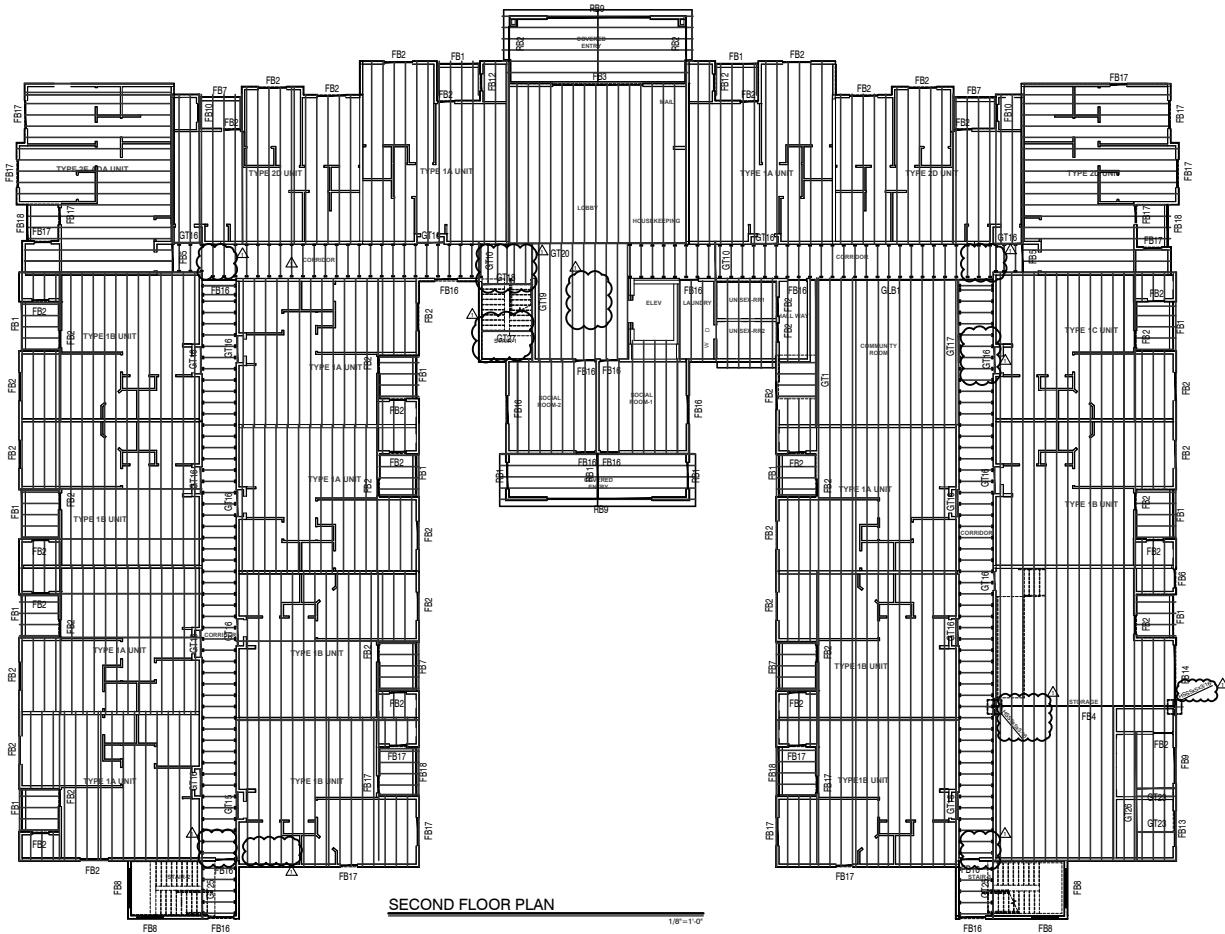
JOB NO. 729-086-241

DATE 07-08-2024

PROJECT SHEET OF

SUBJECT FRAMING KEY PLAN DESIGNED CHECKED

REVISED



L. R. NELSON CONSULTING ENGINEERS

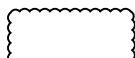
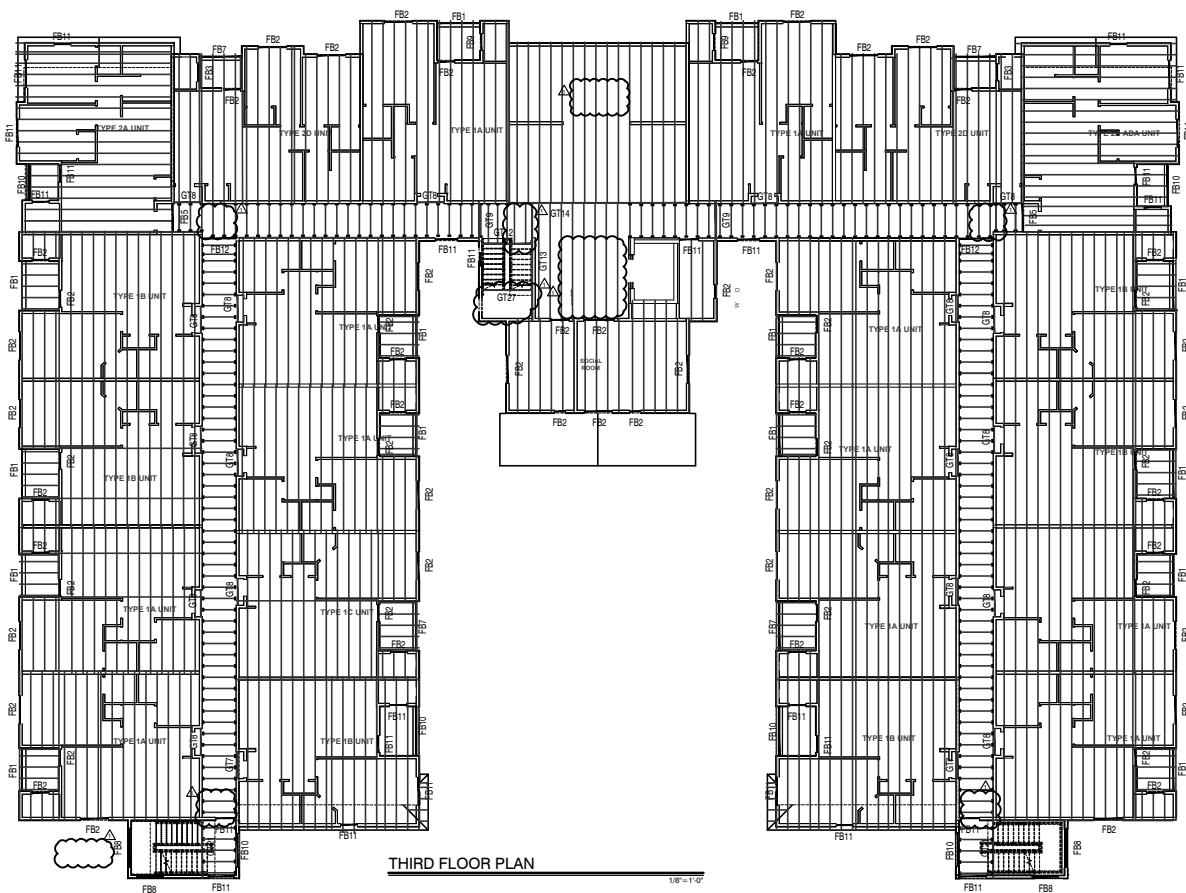
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PROJECT \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_

SUBJECT FRAMING KEY PLAN DESIGNED \_\_\_\_\_ CHECKED \_\_\_\_\_

REVISED



L. R. NELSON CONSULTING ENGINEERS

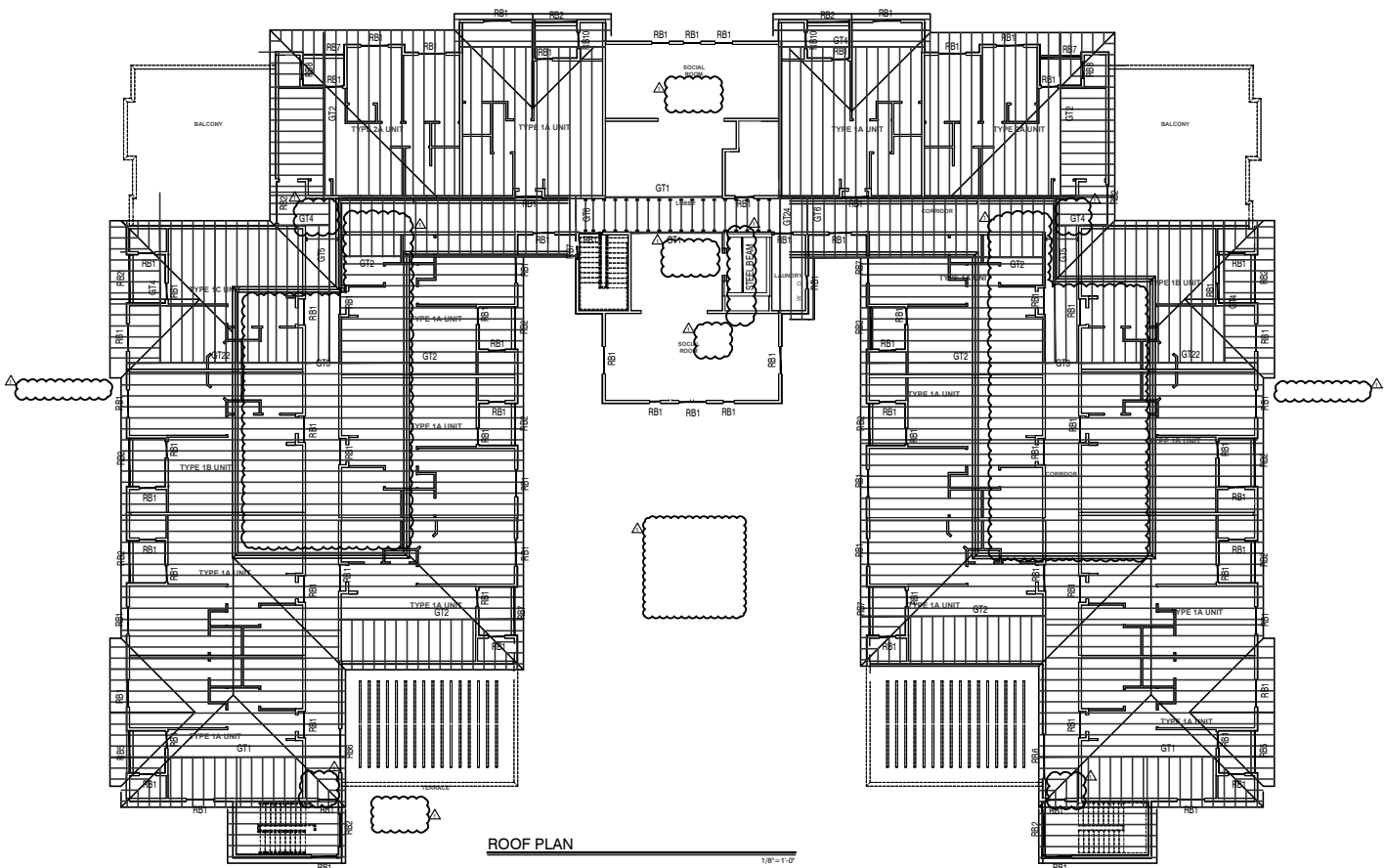
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PROJECT \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_

SUBJECT FRAMING KEY PLAN DESIGNED \_\_\_\_\_ CHECKED \_\_\_\_\_

REVISED



ROOF PLAN 1/8" = 1'-0"

L.R. NELSON CONSULTING ENGINEERS, INC.

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA
SUBJECT: Beams & Headers

SHEET DESIGNED MS

OF CHECKED KAB

DESCRIPTION: GT1
Roof Tributary = 6.00 ft
Floor Tributary = 0.00 ft
Wall Tributary = 0.00 ft
Additional Load = 0.00 plf
Length (ft) = 39.00
Notes:
Actual vs Req'd table
Max LL Deflection = #VALUE! #VALUE!
Max TL Deflection = #VALUE! #VALUE!
Reactions: Left = 5,031 lb, Right = 5,031 lb

DESCRIPTION: GT2
Roof Tributary = 7.00 ft
Floor Tributary = 0.00 ft
Wall Tributary = 0.00 ft
Additional Load = 0.00 plf
Length (ft) = 32.50
Notes:
Actual vs Req'd table
Max LL Deflection = #VALUE! #VALUE!
Max TL Deflection = #VALUE! #VALUE!
Reactions: Left = 4,891 lb, Right = 4,891 lb

DESCRIPTION: GT3
Roof Tributary = 13.50 ft
Floor Tributary = 0.00 ft
Wall Tributary = 0.00 ft
Additional Load = 0.00 plf
Length (ft) = 6.25
Notes:
Actual vs Req'd table
Max LL Deflection = #VALUE! #VALUE!
Max TL Deflection = #VALUE! #VALUE!
Reactions: Left = 2,814 lb, Right = 5,813 lb

DESCRIPTION: GT4
Roof Tributary = 13.50 ft
Floor Tributary = 0.00 ft
Wall Tributary = 0.00 ft
Additional Load = 0.00 plf
Length (ft) = 10.00
Notes:
Actual vs Req'd table
Max LL Deflection = #VALUE! #VALUE!
Max TL Deflection = #VALUE! #VALUE!
Reactions: Left = 2,903 lb, Right = 2,903 lb

DESCRIPTION: GT5
Roof Tributary = 7.00 ft
Floor Tributary = 0.00 ft
Wall Tributary = 0.00 ft
Additional Load = 0.00 plf
Length (ft) = 30.00
Notes:
Actual vs Req'd table
Max LL Deflection = #VALUE! #VALUE!
Max TL Deflection = #VALUE! #VALUE!
Reactions: Left = 4,999 lb, Right = 6,934 lb

L.R. NELSON CONSULTING ENGINEERS, INC.

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 SUBJECT: Beams & Headers DESIGNED MS CHECKED KAB

DESCRIPTION:	<b>GT6</b>	Roof Tributary =	2.00	ft	W <sub>DL</sub> =	46.00	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	0.00	ft	W <sub>LL</sub> =	40.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =	0.00	lb	I <sub>u</sub> =	7.25		
LENGTH (ft)=	7.25	Additional Load =	0.00	plf	P <sub>LL</sub> =	0.00	lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =	0.00	ft	Reduction (L)		%	
	<u>Actual</u>	<u>Req'd</u>			Source:			L/xxx	<u>Alternate Loads</u>		
S =	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	360	#1	#2	LL
A =	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	240			x
I =	#N/A	in <sup>4</sup>	#N/A	in <sup>4</sup>	#VALUE!	in <sup>4</sup>	#N/A				
Left Reaction =	312	lb	Post:	2X6	DFLSTUD	O.K.					
Right Reaction =	312	lb	Post:	2X6	DFLSTUD	O.K.					

DESCRIPTION:	<b>GT7</b>	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	385.01	lb/ft	C <sub>D</sub> =	1.00	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	19.25	ft	W <sub>LL</sub> =	1,925.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =	0.00	lb	I <sub>u</sub> =	2.00		
LENGTH (ft)=	5.25	Additional Load =	0.00	plf	P <sub>LL</sub> =	0.00	lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =	0.00	ft	Reduction (L)		%	
	<u>Actual</u>	<u>Req'd</u>			Source:			L/xxx	<u>Alternate</u>		
S =	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	360	#1	#2	LL
A =	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	240			x
I =	#N/A	in <sup>4</sup>	#N/A	in <sup>4</sup>	#VALUE!	in <sup>4</sup>	#N/A				
Left Reaction =	9,259	lb	Post:	(2)2X6	DFLSTUD	O.K.	3,195.28	lb	RB7		
Right Reaction =	9,294	lb	Post:	(2)2X6	DFLSTUD	O.K.	3,229.97	lb	RB7		

DESCRIPTION:	<b>GT8</b>	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	390.02	lb/ft	C <sub>D</sub> =	1.00	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	19.50	ft	W <sub>LL</sub> =	1,950.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =		lb	I <sub>u</sub> =	2.00		
LENGTH (ft)=	5.75	Additional Load =	0.00	plf	P <sub>LL</sub> =		lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =		ft	Reduction (L)		%	
	<u>Actual</u>	<u>Req'd</u>			Source:			L/xxx	<u>Alternate</u>		
S =	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	360	#1	#2	LL
A =	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	240			x
I =	#N/A	in <sup>4</sup>	#N/A	in <sup>4</sup>	#VALUE!	in <sup>4</sup>	#N/A				
Left Reaction =	9,059	lb	Post:	(2)2X6	DFLSTUD	O.K.	2,331.64	lb			
Right Reaction =	9,059	lb	Post:	(2)2X6	DFLSTUD	O.K.	2,331.64	lb			

DESCRIPTION:	<b>GT9</b>	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	60.00	lb/ft	C <sub>D</sub> =	1.00	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	3.00	ft	W <sub>LL</sub> =	300.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =		lb	I <sub>u</sub> =	7.25		
LENGTH (ft)=	7.25	Additional Load =	0.00	plf	P <sub>LL</sub> =		lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =		ft	Reduction (L)		%	
	<u>Actual</u>	<u>Req'd</u>			Source:			L/xxx	<u>Alternate</u>		
S =	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	360	#1	#2	LL
A =	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	240			x
I =	#N/A	in <sup>4</sup>	#N/A	in <sup>4</sup>	#VALUE!	in <sup>4</sup>	#N/A				
Left Reaction =	1,617	lb	Post:	2X6	DFLSTUD	O.K.	311.75	lb			
Right Reaction =	1,617	lb	Post:	2X6	DFLSTUD	O.K.	311.75	lb			

DESCRIPTION:	<b>GT10</b>	Roof Tributary =		ft	W <sub>DL</sub> =	60.00	lb/ft	C <sub>D</sub> =	1.00	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	3.00	ft	W <sub>LL</sub> =	300.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =		lb	I <sub>u</sub> =	7.25		
LENGTH (ft)=	7.25	Additional Load =	0.00	plf	P <sub>LL</sub> =		lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =		ft	Reduction (L)		%	
	<u>Actual</u>	<u>Req'd</u>			Source:			L/xxx	<u>Alternate</u>		
S =	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	in <sup>3</sup>	#N/A	360	#1	#2	LL
A =	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	in <sup>2</sup>	#N/A	240			x
I =	#N/A	in <sup>4</sup>	#N/A	in <sup>4</sup>	#VALUE!	in <sup>4</sup>	#N/A				
Left Reaction =	2,922	lb	Post:	2X6	DFLSTUD	O.K.	1,616.76	lb	GT9		
Right Reaction =	2,922	lb	Post:	2X6	DFLSTUD	O.K.	1,616.76	lb	GT9		

L.R. NELSON CONSULTING ENGINEERS, INC.

REVISED

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA
SUBJECT: Beams & Headers

SHEET DESIGNED MS

OF CHECKED KAB

Table for beam GT11: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd properties, Max LL/TL Deflection, and Reactions.

Table for beam GT12: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd properties, Max LL/TL Deflection, and Reactions.

Table for beam GT13: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd properties, Max LL/TL Deflection, and Reactions.

Table for beam GT14: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd properties, Max LL/TL Deflection, and Reactions.

Table for beam GT15: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd properties, Max LL/TL Deflection, and Reactions.

# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

**PROJECT SUBJECT** SNRHA BENNET PLAZA  
BEAMS AND HEADERS

**SHEET OF** \_\_\_\_\_  
**DESIGNED MS CHECKED KAB**

**(SIMPLY SUPPORTED BEAM)**

<b>DESCRIPTION:</b>	<b>GT11</b>				
<b>SIZE:</b>		$C_D = 1.00$			
<b>GRADE:</b>		$C_M = 1.00$			
<b>LENGTH =</b>	<b>34.00</b> ft	$C_t = 1.00$			
		$C_L = 1.00$			
$F_b =$	#N/A psi	$C_r = 1.00$			
$F_v =$	#N/A psi	$C_c = 1.00$			
$E =$	#N/A psi	$C_f = 1.00$			
		$C_v = 1.00$			
$M_{MAX} =$	90,514 lb-ft	$C_F = \#N/A$			
$V_{MAX} =$	16,968 lb	$C_{fu} = \#N/A$			
		$I_{actual} = \#N/A$			
$R_1 =$	6,836.98 lb	<b>CHECK:</b>			
$R_2 =$	16,967.91 lb	$S_{actual} =$	#N/A in <sup>3</sup>	#N/A in <sup>3</sup>	#N/A
		$A_{actual} =$	#N/A in <sup>2</sup>	#N/A in <sup>2</sup>	#N/A
$S_{req} =$	#N/A IN <sup>3</sup>	<b>Delta LL =</b>	#N/A in	1.13 in	#N/A
$A_{req} =$	#N/A IN <sup>2</sup>	<b>Delta TL =</b>	#N/A in	1.70 in	#N/A
<b>Delta<sub>LL,ALLOW</sub> =</b>	1.13 in			<b>LL =&gt; L/? =</b>	#N/A
<b>Delta<sub>TL,ALLOW</sub> =</b>	1.70 in	<b>1.5xDL Deflection =</b>	#N/A inches	<b>TL =&gt; L/? =</b>	#N/A

**UNIFORM LOADS**

$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft

**POINT LOADS**

			a (ft)		a (ft)	
$P_{DL} =$	217.51 lb @		5.00	$P_{LL} =$	1,087.50 lb @	5.00 GT9
$P_{DL} =$	217.51 lb @		12.50	$P_{LL} =$	1,087.50 lb @	12.50 GT9
$P_{DL} =$	0.00 lb @		0.00	$P_{LL} =$	0.00 lb @	0.00
$P_{DL} =$	0.00 lb @		0.00	$P_{LL} =$	0.00 lb @	0.00
$P_{DL} =$	0.00 lb @		0.00	$P_{LL} =$	0.00 lb @	0.00

**UNIFORM LOADS PARTIALLY DISTRIBUTED**

			a (ft)	b (ft)		a (ft)	b (ft)
$W_{DL} =$	301.88 lb/ft @		29.00	5.00	$W_{LL} =$	262.50 lb/ft @	29.00 5.00
$W_{DL} =$	322.00 lb/ft @		12.50	21.50	$W_{LL} =$	280.00 lb/ft @	12.50 21.50
$W_{DL} =$	299.00 lb/ft @		26.50	7.50	$W_{LL} =$	425.00 lb/ft @	26.50 7.50
$W_{DL} =$	0.00 lb/ft @		0.00	0.00	$W_{LL} =$	0.00 lb/ft @	0.00 0.00
$W_{DL} =$	0.00 lb/ft @		0.00	0.00	$W_{LL} =$	0.00 lb/ft @	0.00 0.00

NOTE: b IS THE DISTANCE FROM THE START TO THE END OF THE UNIFORMLY DISTRIBUTED LOAD.



# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

**PROJECT SUBJECT** SNRHA BENNET PLAZA **SHEET OF** \_\_\_\_\_  
BEAMS AND HEADERS **DESIGNED** MS **CHECKED** KAB

**(SIMPLY SUPPORTED BEAM)**

<b>DESCRIPTION:</b>	<b>GT14</b>				
<b>SIZE:</b>		$C_D =$	<b>1.00</b>		
<b>GRADE:</b>		$C_M =$	<b>1.00</b>		
<b>LENGTH =</b>	<b>32.00</b> ft	$C_t =$	<b>1.00</b>		
		$C_L =$	<b>1.00</b>		
$F_b =$	<b>#N/A</b> psi	$C_r =$	<b>1.00</b>		
$F_v =$	<b>#N/A</b> psi	$C_c =$	<b>1.00</b>		
$E =$	<b>#N/A</b> psi	$C_f =$	<b>1.00</b>		
$M_{MAX} =$	<b>120,732</b> lb-ft	$C_v =$	<b>1.00</b>		
$V_{MAX} =$	<b>23,285</b> lb	$C_F =$	<b>#N/A</b>		
		$C_{fu} =$	<b>#N/A</b>		
		$I_{actual} =$	<b>#N/A</b>		
$R_1 =$	<b>10,877.69</b> lb	<b>CHECK:</b>			
$R_2 =$	<b>23,285.16</b> lb	$S_{actual} =$	<b>#N/A</b> in <sup>3</sup>	<b>#N/A</b>	<b>#N/A</b> in <sup>3</sup> <b>#N/A</b>
		$A_{actual} =$	<b>#N/A</b> in <sup>2</sup>	<b>#N/A</b>	<b>#N/A</b> in <sup>2</sup> <b>#N/A</b>
$S_{req} =$	<b>#N/A</b> IN <sup>3</sup>	<b>Delta LL =</b>	<b>#N/A</b> in	<b>#N/A</b>	<b>1.07</b> in <b>#N/A</b>
$A_{req} =$	<b>#N/A</b> IN <sup>2</sup>	<b>Delta TL =</b>	<b>#N/A</b> in	<b>#N/A</b>	<b>1.60</b> in <b>#N/A</b>
<b>Delta<sub>LL,ALLOW</sub> =</b>	<b>1.07</b> in	<b>1.5xDL Deflection =</b>	<b>#N/A</b> inches	<b>LL =&gt;</b>	<b>L/? =</b> <b>#N/A</b>
<b>Delta<sub>TL,ALLOW</sub> =</b>	<b>1.60</b> in			<b>TL =&gt;</b>	<b>L/? =</b> <b>#N/A</b>

**UNIFORM LOADS**

$W_{DL} =$	<b>0.00</b> lb/ft	$W_{LL} =$	<b>0.00</b> lb/ft
$W_{DL} =$	<b>0.00</b> lb/ft	$W_{LL} =$	<b>0.00</b> lb/ft
$W_{DL} =$	<b>0.00</b> lb/ft	$W_{LL} =$	<b>0.00</b> lb/ft
$W_{DL} =$	<b>0.00</b> lb/ft	$W_{LL} =$	<b>0.00</b> lb/ft
$W_{DL} =$	<b>0.00</b> lb/ft	$W_{LL} =$	<b>0.00</b> lb/ft

**POINT LOADS**

$P_{DL} =$	<b>884.11</b> lb @	<b>a (ft)</b>	<b>4.25</b>	$P_{LL} =$	<b>4,420.37</b> lb @	<b>a (ft)</b>	<b>4.25</b>	<b>GT13</b>
$P_{DL} =$	<b>0.00</b> lb @	<b>0.00</b>		$P_{LL} =$	<b>0.00</b> lb @	<b>0.00</b>		
$P_{DL} =$	<b>0.00</b> lb @	<b>0.00</b>		$P_{LL} =$	<b>0.00</b> lb @	<b>0.00</b>		
$P_{DL} =$	<b>0.00</b> lb @	<b>0.00</b>		$P_{LL} =$	<b>0.00</b> lb @	<b>0.00</b>		
$P_{DL} =$	<b>0.00</b> lb @	<b>0.00</b>		$P_{LL} =$	<b>0.00</b> lb @	<b>0.00</b>		

**UNIFORM LOADS PARTIALLY DISTRIBUTED**

$W_{DL} =$	<b>416.88</b> lb/ft @	<b>a (ft)</b>	<b>27.75</b>	<b>b (ft)</b>	<b>4.25</b>	$W_{LL} =$	<b>362.50</b> lb/ft @	<b>a (ft)</b>	<b>27.75</b>	<b>b (ft)</b>	<b>4.25</b>
$W_{DL} =$	<b>569.25</b> lb/ft @	<b>15.00</b>	<b>17.00</b>			$W_{LL} =$	<b>495.00</b> lb/ft @	<b>15.00</b>	<b>17.00</b>		
$W_{DL} =$	<b>370.88</b> lb/ft @	<b>21.25</b>	<b>10.75</b>			$W_{LL} =$	<b>322.50</b> lb/ft @	<b>21.25</b>	<b>10.75</b>		
$W_{DL} =$	<b>0.00</b> lb/ft @	<b>0.00</b>	<b>0.00</b>			$W_{LL} =$	<b>0.00</b> lb/ft @	<b>0.00</b>	<b>0.00</b>		
$W_{DL} =$	<b>0.00</b> lb/ft @	<b>0.00</b>	<b>0.00</b>			$W_{LL} =$	<b>0.00</b> lb/ft @	<b>0.00</b>	<b>0.00</b>		

NOTE: b IS THE DISTANCE FROM THE START TO THE END OF THE UNIFORMLY DISTRIBUTED LOAD.

L.R. NELSON CONSULTING ENGINEERS, INC.

REVISED

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA SHEET MS OF

SUBJECT: Beams & Headers DESIGNED MS CHECKED KAB

Table for beam GT16: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Tributary loads, Deflection, Reaction, Post, and Alternate Loads.

Table for beam GT17: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Tributary loads, Deflection, Reaction, Post, and Alternate Loads.

Table for beam GT18: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Tributary loads, Deflection, Reaction, Post, and Alternate Loads.

Table for beam GT19: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Tributary loads, Deflection, Reaction, Post, and Alternate Loads.

Table for beam GT20: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Tributary loads, Deflection, Reaction, Post, and Alternate Loads.

**L. R. NELSON CONSULTING ENGINEERS**

**REVISED**

**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

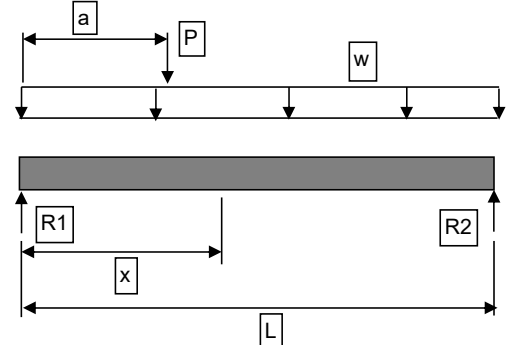
**PROJECT SUBJECT** SNRHA BENNET PLAZA  
 BEAMS AND HEADERS

**SHEET OF** \_\_\_\_\_  
**DESIGNED** MS **CHECKED** KAB

(SIMPLY SUPPORTED BEAM)

DESCRIPTION:	GT20
SIZE:	
GRADE:	
LENGTH =	32.00 ft
$F_b =$	#N/A psi
$F_v =$	#N/A psi
$E =$	#N/A psi
$M_{MAX} =$	120,732 lb-ft
$V_{MAX} =$	23,285 lb
$R_1 =$	10,877.69 lb
$R_2 =$	23,285.16 lb
$S_{req} =$	#N/A IN <sup>3</sup>
$A_{req} =$	#N/A IN <sup>2</sup>
Delta <sub>LL,ALLOW</sub> =	1.07 in
Delta <sub>TL,ALLOW</sub> =	1.60 in

$C_D =$	1.00
$C_M =$	1.00
$C_t =$	1.00
$C_L =$	1.00
$C_r =$	1.00
$C_c =$	1.00
$C_f =$	1.00
$C_v =$	1.00
$C_F =$	#N/A
$C_{fu} =$	#N/A



$I_{actual} =$	#N/A
<b>CHECK:</b>	
$S_{actual} =$	#N/A in <sup>3</sup> #N/A in <sup>3</sup> #N/A
$A_{actual} =$	#N/A in <sup>2</sup> #N/A in <sup>2</sup> #N/A
Delta LL =	#N/A in #N/A 1.07 in #N/A
Delta TL =	#N/A in #N/A 1.60 in #N/A
1.5xDL Deflection =	#N/A inches LL => L/? = #N/A TL => L/? = #N/A

UNIFORM LOADS

$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft

POINT LOADS

$P_{DL} =$	884.11 lb @	a (ft)	4.25	$P_{LL} =$	4,420.37 lb @	a (ft)	4.25	GT13
$P_{DL} =$	0.00 lb @	0.00		$P_{LL} =$	0.00 lb @	0.00		
$P_{DL} =$	0.00 lb @	0.00		$P_{LL} =$	0.00 lb @	0.00		
$P_{DL} =$	0.00 lb @	0.00		$P_{LL} =$	0.00 lb @	0.00		
$P_{DL} =$	0.00 lb @	0.00		$P_{LL} =$	0.00 lb @	0.00		

UNIFORM LOADS PARTIALLY DISTRIBUTED

$W_{DL} =$	416.88 lb/ft @	a (ft)	27.75	b (ft)	4.25	$W_{LL} =$	362.50 lb/ft @	a (ft)	27.75	b (ft)	4.25
$W_{DL} =$	569.25 lb/ft @	15.00	17.00	$W_{LL} =$	495.00 lb/ft @	15.00	17.00				
$W_{DL} =$	370.88 lb/ft @	21.25	10.75	$W_{LL} =$	322.50 lb/ft @	21.25	10.75				
$W_{DL} =$	0.00 lb/ft @	0.00	0.00	$W_{LL} =$	0.00 lb/ft @	0.00	0.00				
$W_{DL} =$	0.00 lb/ft @	0.00	0.00	$W_{LL} =$	0.00 lb/ft @	0.00	0.00				

NOTE: b IS THE DISTANCE FROM THE START TO THE END OF THE UNIFORMLY DISTRIBUTED LOAD.

# L. R. NELSON CONSULTING ENGINEERS

REVISED

**JOB NO.** 729-086-241

**DATE:** 04/25/24

**PROJECT SUBJECT** SNRHA BENNET PLAZA  
BEAMS AND HEADERS

**SHEET OF**  
**DESIGNED MS CHECKED**

Span , ft	5.50	MEMBER:	<b>GT17 (REACTION ONLY)</b>	SEISMIC AND WIND C
UNIFORM LOADS, plf (continuous across entire member)				
w1DL	90.00	0	Continuous lateral support (1= yes, 0= no)?	1 Yes
w1LL	450.00	0	esses adjusted to ASD design (1= yes, 0= no)?	1 Yes

POINT LOADS, lbs						Distance to Point Loads (from left end of span), ft					
P1 D	0.00	a1	1.00 ft	P3 D	0.00	a3	1.00 ft	P1 LL	0.00	P3 LL	0.00
P2 D	0.00	a2	1.00 ft	P4 D	0.00	a4	1.00 ft	P2 LL	0.00	P4 LL	0.00

PE1		a E1	11.00 ft	PW1		a W1	11.00 ft
PE2	0.00	a E2	0.00 ft	PW2	0.00	a W2	0.00 ft
PE3	0.00	a E3	0.00 ft	PW3	0.00	a W3	0.00 ft
PE4	0.00	a E4	0.00 ft	PW4	0.00	a W4	0.00 ft

(Note: seismic loads (PE) should be at ASD level, eg E/1.4, program adjusts PE loads to Strength levels)

LINEAR LOADS, plf				CD = 1.60	
qa DL	0.00	a q	1.00 ft	Fasd = 1.2	
qa LL	0.00	b q	1.00 ft	Ω = 2.5	
qb DL	0.00			SDS = 0.550	
qb LL	0.00			f = 0.75	
				1.0+0.14SDS = 1.077	1.0+0.105SDS = 1.058
				0.6-0.14SDS = 0.523	

**ANALYSIS RESULTS**

CASE 1, (1+0.105SDS)D + 0.75(LL+Lr) + 0.525ΩE      CASE 3, D +0.75(LL + Lr + (W or 0.7E))  
 CASE 2, (0.6-0.14SDS)D - 0.7ΩE                      CASE 4, 0.6D - (W or 0.7E)  
 CASE 5, (1+0.14SDS)D + 0.7ΩE

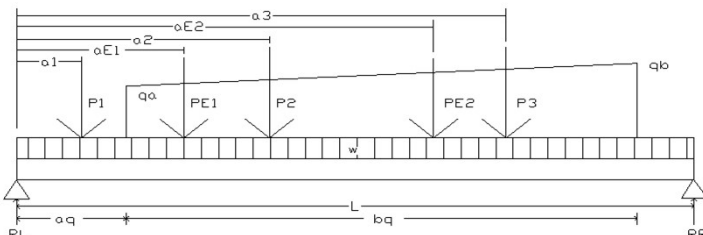
	MAXIMUM	CASE	MINIMUM	CASE
V <sub>a</sub> =	9404 LB	5	-7324 LB	2
V <sub>b</sub> =	5896 LB	5	-5064 LB	2
RL =	9466 LB	5	-7294 LB	2
RR =	5958 LB	5	-5034 LB	2

MEMBER DESIGN FORCES	
NEGATIVE MOMENT	-19341 L
POSITIVE MOMENT	21387 L
MAXIMUM SHEAR	9404

**MEMBER DESIGN**

Member Type		A in <sup>2</sup>	S in <sup>3</sup>	I in <sup>4</sup>
Member Section		#N/A	#N/A	#N/A
Allowable Stress	adjustment factor	Adjusted Stress		Member Stresses
psi	CD(CL)·(Cx)(Fasd)	psi		psi
F <sub>v</sub>	#N/A	1.92	F <sub>v</sub> = #N/A	f <sub>v</sub> = #N/A #N/A
F <sub>b</sub>	#N/A	#N/A	F <sub>b</sub> = #N/A	pos f <sub>b</sub> = #N/A #N/A
E	#N/A	1.00	E = #N/A	neg f <sub>b</sub> = #N/A #N/A
F <sub>b_neg</sub>	#N/A	#N/A	F <sub>b</sub> neg = #N/A	

**Provide:**



NOTES: CMST12  
 REQUIRED AT EACH END  
 OF MEMBER                      T max= 921

L.R. NELSON CONSULTING ENGINEERS, INC.

REVISED

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_ OF \_\_\_\_\_

SUBJECT: Beams & Headers

DESIGNED MS

CHECKED KAB

DESCRIPTION:	GT21	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	70.00	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	3.50	ft	W <sub>LL</sub> =	350.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =	0.00	lb	I <sub>u</sub> =	10.50		
LENGTH (ft)=	10.50	Additional Load =	0.00	plf	P <sub>LL</sub> =	0.00	lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =	0.00	ft	Reduction (L)		%	
					Source:			L/xxx	Alternate Loads		
								360	#1	#2	LL
								240			x
								Source	Lx	Ly	
									8.0	2.0	ft
									8.0	2.0	ft

DESCRIPTION:	GT22	Roof Tributary =	7.00	ft	W <sub>DL</sub> =	161.00	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	0.00	ft	W <sub>LL</sub> =	140.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =	1,552.50	lb	I <sub>u</sub> =	2.00		
LENGTH (ft)=	32.50	Additional Load =	0.00	plf	P <sub>LL</sub> =	1,350.00	lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =	24.75	ft	Reduction (L)		%	
					Source:	GT4		L/xxx	Alternate		
								360	#1	#2	LL
								240			
								Source	Lx	Ly	
									8.0	2.0	ft
									8.0	2.0	ft

DESCRIPTION:	GT23	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	340.01	lb/ft	C <sub>D</sub> =	1.00	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	11.00	ft	W <sub>LL</sub> =	440.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	7.50	ft	P <sub>DL</sub> =	0.00	lb	I <sub>u</sub> =	2.00		
LENGTH (ft)=	6.75	Additional Load =	0.00	plf	P <sub>LL</sub> =	0.00	lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =		ft	Reduction (L)		%	
					Source:			L/xxx	Alternate		
								360	#1	#2	LL
								240			
								Source	Lx	Ly	
									8.0	2.0	ft
									8.0	2.0	ft

DESCRIPTION:	GT24	Roof Tributary =	17.00	ft	W <sub>DL</sub> =	391.00	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	0.00	ft	W <sub>LL</sub> =	340.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =	0.00	lb	I <sub>u</sub> =	21.00		
LENGTH (ft)=	21.00	Additional Load =	0.00	plf	P <sub>LL</sub> =	0.00	lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =		ft	Reduction (L)		%	
					Source:			L/xxx	Alternate		
								360	#1	#2	LL
								240			
								Source	Lx	Ly	
									8.0	2.0	ft
									8.0	2.0	ft

DESCRIPTION:	GT25	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	70.00	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	3.50	ft	W <sub>LL</sub> =	350.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =		lb	I <sub>u</sub> =	10.50		
LENGTH (ft)=	10.50	Additional Load =		plf	P <sub>LL</sub> =		lb	Reduction (L <sub>r</sub> )		%	
NOTES:					d <sub>Point Load</sub> =		ft	Reduction (L)		%	
					Source:			L/xxx	Alternate		
								360	#1	#2	LL
								240			x
								Source	Lx	Ly	
									8.0	2.0	ft
									8.0	2.0	ft

L.R. NELSON CONSULTING ENGINEERS, INC.

ADDED CALC

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 SUBJECT: Beams & Headers DESIGNED MS CHECKED KAB

DESCRIPTION:	GT26	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	0.00	lb/ft	C <sub>D</sub> =	1.00	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	0.00	ft	W <sub>LL</sub> =	0.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =	0.00	lb	I <sub>u</sub> =	23.00		
LENGTH (ft)=	23.00	Additional Load =	0.00	plf	P <sub>LL</sub> =	0.00	lb	Reduction (L <sub>r</sub> )			%
NOTES:	see additional calc. reaction only										
					d <sub>Point Load</sub> =	0.00	ft	Reduction (L)			%
					Source:			L/xxx	Alternate Loads		
					Max LL Deflection =	#VALUE!	#VALUE!	360	#1	#2	LL
					Max TL Deflection =	#VALUE!	#VALUE!	240			x
								Source	Lx	Ly	
Left Reaction =	15,785	lb	Post:	(3)2X6	DFLSTUD	O.K.	15,785.10		8.0	2.0	ft
Right Reaction =	9,888	lb	Post:	(2)2X6	DFLSTUD	O.K.	9,887.51		8.0	2.0	ft

DESCRIPTION:	GT27	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	220.01	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	11.00	ft	W <sub>LL</sub> =	1,100.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =		lb	I <sub>u</sub> =	2.00		
LENGTH (ft)=	9.00	Additional Load =	0.00	plf	P <sub>LL</sub> =		lb	Reduction (L <sub>r</sub> )			%
NOTES:											
					d <sub>Point Load</sub> =		ft	Reduction (L)			%
					Source:			L/xxx	Alternate		
					Max LL Deflection =	#VALUE!	#VALUE!	360	#1	#2	LL
					Max TL Deflection =	#VALUE!	#VALUE!	240			x
								Source	Lx	Ly	
Left Reaction =	5,940	lb	Post:	2X6	DFLSTUD	O.K.			8.0	2.0	ft
Right Reaction =	5,940	lb	Post:	2X6	DFLSTUD	O.K.			8.0	2.0	ft

DESCRIPTION:	GT28	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	220.01	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	11.00	ft	W <sub>LL</sub> =	1,100.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =	0.00	lb	I <sub>u</sub> =	2.00		
LENGTH (ft)=	9.00	Additional Load =	0.00	plf	P <sub>LL</sub> =	0.00	lb	Reduction (L <sub>r</sub> )			%
NOTES:											
					d <sub>Point Load</sub> =		ft	Reduction (L)			%
					Source:			L/xxx	Alternate		
					Max LL Deflection =	#VALUE!	#VALUE!	360	#1	#2	LL
					Max TL Deflection =	#VALUE!	#VALUE!	240			x
								Source	Lx	Ly	
Left Reaction =	11,880	lb	Post:	(2)2X6	DFLSTUD	O.K.	5,940.04		8.0	2.0	ft
Right Reaction =	11,880	lb	Post:	(2)2X6	DFLSTUD	O.K.	5,940.04		8.0	2.0	ft

DESCRIPTION:	GT27	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	0.00	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	0.00	ft	W <sub>LL</sub> =	0.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =	0.00	lb	I <sub>u</sub> =	1.00		
LENGTH (ft)=	1.00	Additional Load =	0.00	plf	P <sub>LL</sub> =	0.00	lb	Reduction (L <sub>r</sub> )			%
NOTES:											
					d <sub>Point Load</sub> =		ft	Reduction (L)			%
					Source:			L/xxx	Alternate		
					Max LL Deflection =	#VALUE!	#VALUE!	360	#1	#2	LL
					Max TL Deflection =	#VALUE!	#VALUE!	240			x
								Source	Lx	Ly	
Left Reaction =	0	lb	Post:	(2)2X6	DFLSTUD	O.K.			8.0	2.0	ft
Right Reaction =	0	lb	Post:	(2)2X6	DFLSTUD	O.K.			8.0	2.0	ft

DESCRIPTION:	GT27	Roof Tributary =	0.00	ft	W <sub>DL</sub> =	0.00	lb/ft	C <sub>D</sub> =	1.25	C <sub>V/L</sub> =	#N/A
SIZE:		Floor Tributary =	0.00	ft	W <sub>LL</sub> =	0.00	lb/ft	C <sub>t</sub> =	1.00	C <sub>F</sub> =	#N/A
GRADE:		Wall Tributary =	0.00	ft	P <sub>DL</sub> =		lb	I <sub>u</sub> =	1.00		
LENGTH (ft)=	1.00	Additional Load =		plf	P <sub>LL</sub> =		lb	Reduction (L <sub>r</sub> )			%
NOTES:											
					d <sub>Point Load</sub> =		ft	Reduction (L)			%
					Source:			L/xxx	Alternate		
					Max LL Deflection =	#VALUE!	#VALUE!	360	#1	#2	LL
					Max TL Deflection =	#VALUE!	#VALUE!	240			x
								Source	Lx	Ly	
Left Reaction =	0	lb	Post:	2X6	DFLSTUD	O.K.			8.0	2.0	ft
Right Reaction =	0	lb	Post:	2X6	DFLSTUD	O.K.			8.0	2.0	ft

**L. R. NELSON CONSULTING ENGINEERS**

ADDED CALC

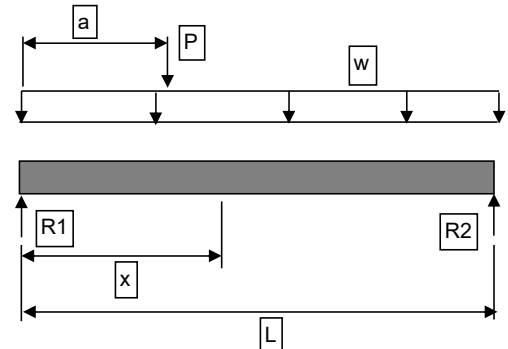
**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

**PROJECT SUBJECT** SNRHA BENNET PLAZA  
BEAMS AND HEADERS

**SHEET OF** \_\_\_\_\_  
**DESIGNED** MS **CHECKED** KAB

(SIMPLY SUPPORTED BEAM)

DESCRIPTION:	GT26 reaction only				
SIZE:		$C_D = 1.00$			
GRADE:		$C_M = 1.00$			
LENGTH =	23.00 ft	$C_t = 1.00$			
		$C_L = 1.00$			
$F_b =$	#N/A psi	$C_r = 1.00$			
$F_v =$	#N/A psi	$C_c = 1.00$			
$E =$	#N/A psi	$C_f = 1.00$			
$M_{MAX} =$	91,718 lb-ft	$C_v = 1.00$			
$V_{MAX} =$	15,785 lb	$C_F = \#N/A$			
		$C_{fu} = \#N/A$			
		$I_{actual} = \#N/A$			
$R_1 =$	15,785.10 lb	<b>CHECK:</b>			
$R_2 =$	9,887.51 lb	$S_{actual} =$	#N/A in <sup>3</sup>	#N/A in <sup>3</sup>	#N/A
		$A_{actual} =$	#N/A in <sup>2</sup>	#N/A in <sup>2</sup>	#N/A
$S_{req} =$	#N/A IN <sup>3</sup>	Delta LL =	#N/A in	0.77 in	#N/A
$A_{req} =$	#N/A IN <sup>2</sup>	Delta TL =	#N/A in	1.15 in	#N/A
Delta <sub>LL,ALLOW</sub> =	0.77 in			LL => L/? =	#N/A
Delta <sub>TL,ALLOW</sub> =	1.15 in	1.5xDL Deflection =	#N/A inches	TL => L/? =	#N/A



**UNIFORM LOADS**

$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft
$W_{DL} =$	0.00 lb/ft	$W_{LL} =$	0.00 lb/ft

**POINT LOADS**

			a (ft)		a (ft)	
$P_{DL} =$	9,466.00 lb @		5.00	$P_{LL} =$	4,420.37 lb @	5.00 GT23
$P_{DL} =$	9,466.00 lb @		12.75	$P_{LL} =$	0.00 lb @	12.75 GT23
$P_{DL} =$	0.00 lb @		0.00	$P_{LL} =$	0.00 lb @	0.00
$P_{DL} =$	0.00 lb @		0.00	$P_{LL} =$	0.00 lb @	0.00
$P_{DL} =$	0.00 lb @		0.00	$P_{LL} =$	0.00 lb @	0.00

**UNIFORM LOADS PARTIALLY DISTRIBUTED**

			a (ft)	b (ft)		a (ft)	b (ft)
$W_{DL} =$	20.00 lb/ft @		5.00	18.00	$W_{LL} =$	40.00 lb/ft @	5.00 18.00
$W_{DL} =$	121.00 lb/ft @		12.75	10.25	$W_{LL} =$	0.00 lb/ft @	12.75 10.25
$W_{DL} =$	lb/ft @				$W_{LL} =$	lb/ft @	
$W_{DL} =$	0.00 lb/ft @		0.00	0.00	$W_{LL} =$	0.00 lb/ft @	0.00 0.00
$W_{DL} =$	0.00 lb/ft @		0.00	0.00	$W_{LL} =$	0.00 lb/ft @	0.00 0.00

NOTE: b IS THE DISTANCE FROM THE START TO THE END OF THE UNIFORMLY DISTRIBUTED LOAD.

**L.R. NELSON CONSULTING ENGINEERS, INC.**

JOB NO. 729-086-241

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PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_ OF \_\_\_\_\_

SUBJECT: Beams & Headers

DESIGNED MS

CHECKED KAB

DESCRIPTION: **RB1** Roof Tributary = 17.00 ft  $W_{DL}$  = 471.00 lb/ft  $C_D$  = 1.25  $C_{V/L}$  = 1.00  
 SIZE: 6X6 Floor Tributary = 0.00 ft  $W_{LL}$  = 340.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 5.00 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 5.75  
 LENGTH (ft) = 5.75 Additional Load = 0.00 plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = 0.00 ft Reduction (L) %  
 Source: \_\_\_\_\_ L/xxx Alternate Loads  

S = 27.73 in <sup>3</sup>	>	23.83 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.07 in = L / 1007	360	#1	#2	LL
A = 30.25 in <sup>2</sup>	>	13.83 in <sup>2</sup>	<b>O.K.</b>					
I = 76.26 in <sup>4</sup>	>	43.36 in <sup>4</sup>	<b>O.K.</b>					

 Max TL Deflection = 0.16 in = L / 422  
 Add'l Load to Post Source Lx Ly  
 Left Reaction = 2,332 lb Post: 2X6 DFLSTUD **O.K.** lb 8.0 2.0 ft  
 Right Reaction = 2,332 lb Post: 2X6 DFLSTUD **O.K.** lb 8.0 2.0 ft

DESCRIPTION: **RB2** Roof Tributary = 17.00 ft  $W_{DL}$  = 463.00 lb/ft  $C_D$  = 1.25  $C_{V/L}$  = 1.00  
 SIZE: 6X10 Floor Tributary = 0.00 ft  $W_{LL}$  = 340.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 4.50 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 2.00  
 LENGTH (ft) = 9.25 Additional Load = 0.00 plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = 0.00 ft Reduction (L) %  
 Source: \_\_\_\_\_ L/xxx Alternate  

S = 82.73 in <sup>3</sup>	>	61.19 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.09 in = L / 1246	360	#1	#2	LL
A = 52.25 in <sup>2</sup>	>	21.73 in <sup>2</sup>	<b>O.K.</b>					
I = 392.96 in <sup>4</sup>	>	178.75 in <sup>4</sup>	<b>O.K.</b>					

 Max TL Deflection = 0.21 in = L / 528  
 Add'l Load to Post Source Lx Ly  
 Left Reaction = 3,714 lb Post: 2X6 DFLSTUD **O.K.** lb 9.0 2.0 ft  
 Right Reaction = 3,714 lb Post: 2X6 DFLSTUD **O.K.** lb 9.0 2.0 ft

DESCRIPTION: **RB3 (NOT USED)** Roof Tributary = 16.00 ft  $W_{DL}$  = 480.01 lb/ft  $C_D$  = 1.25  $C_{V/L}$  = 1.00  
 SIZE: 5-1/8X13-1/2 Floor Tributary = 0.00 ft  $W_{LL}$  = 320.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: 24F-V4 Wall Tributary = 7.00 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 2.00  
 LENGTH (ft) = 16.50 Additional Load = 0.00 plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = 0.00 ft Reduction (L) %  
 Source: \_\_\_\_\_ L/xxx Alternate  

S = 155.67 in <sup>3</sup>	>	109.29 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.28 in = L / 702	360	#1	#2	LL
A = 69.19 in <sup>2</sup>	>	25.81 in <sup>2</sup>	<b>O.K.</b>					
I = 1050.79 in <sup>4</sup>	>	898.43 in <sup>4</sup>	<b>O.K.</b>					

 Max TL Deflection = 0.71 in = L / 281  
 Add'l Load to Post Source Lx Ly  
 Left Reaction = 6,600 lb Post: 2X6 DFLSTUD **O.K.** lb 8.0 2.0 ft  
 Right Reaction = 6,600 lb Post: 2X6 DFLSTUD **O.K.** lb 8.0 2.0 ft

DESCRIPTION: **RB4 (NOT USED)** Roof Tributary = 17.00 ft  $W_{DL}$  = 671.01 lb/ft  $C_D$  = 1.25  $C_{V/L}$  = 1.00  
 SIZE: 6X6 Floor Tributary = 0.00 ft  $W_{LL}$  = 340.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 17.50 ft  $P_{DL}$  = \_\_\_\_\_ lb  $I_u$  = 5.50  
 LENGTH (ft) = 5.50 Additional Load = 0.00 plf  $P_{LL}$  = \_\_\_\_\_ lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = \_\_\_\_\_ ft Reduction (L) %  
 Source: \_\_\_\_\_ L/xxx Alternate  

S = 27.73 in <sup>3</sup>	>	27.19 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.06 in = L / 1150	360	#1	#2	LL
A = 30.25 in <sup>2</sup>	>	16.35 in <sup>2</sup>	<b>O.K.</b>					
I = 76.26 in <sup>4</sup>	>	47.31 in <sup>4</sup>	<b>O.K.</b>					

 Max TL Deflection = 0.17 in = L / 387  
 Add'l Load to Post Source Lx Ly  
 Left Reaction = 2,780 lb Post: 2X6 DFLSTUD **O.K.** lb 8.0 2.0 ft  
 Right Reaction = 2,780 lb Post: 2X6 DFLSTUD **O.K.** lb 8.0 2.0 ft

DESCRIPTION: **RB5** Roof Tributary = 0.00 ft  $W_{DL}$  = 0.00 lb/ft  $C_D$  = 1.25  $C_{V/L}$  = 1.00  
 SIZE: 6X10 Floor Tributary = 0.00 ft  $W_{LL}$  = 0.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 0.00 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 8.00  
 LENGTH (ft) = 8.00 Additional Load = 0.00 plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES: See additional calculation  $d_{Point Load}$  = \_\_\_\_\_ ft Reduction (L) %  
 Source: \_\_\_\_\_ L/xxx Alternate  

S = 82.73 in <sup>3</sup>	>	0.00 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.00 in = N/A	360	#1	#2	LL
A = 52.25 in <sup>2</sup>	>	0.00 in <sup>2</sup>	<b>O.K.</b>					
I = 392.96 in <sup>4</sup>	>	0.00 in <sup>4</sup>	<b>O.K.</b>					

 Max TL Deflection = 0.00 in = N/A  
 Add'l Load to Post Source Lx Ly  
 Left Reaction = 4,710 lb Post: 2X6 DFLSTUD **O.K.** 4,709.73 lb 9.0 2.0 ft  
 Right Reaction = 5,004 lb Post: 2X6 DFLSTUD **O.K.** 5,004.02 lb 9.0 2.0 ft



# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

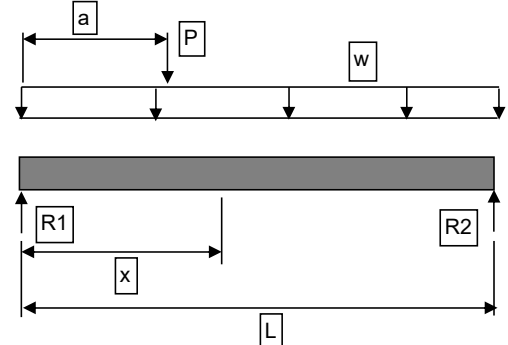
**PROJECT** SNRHA BENNET PLAZA  
**SUBJECT** BEAMS AND HEADERS

**SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_  
**DESIGNED** MS **CHECKED** KAB

**(SIMPLY SUPPORTED BEAM)**

<b>DESCRIPTION:</b>	<b>RB5</b>		
<b>SIZE:</b>	<b>6X10</b>		
<b>GRADE:</b>	<b>DFL#1 (TIMBERS)</b>		
<b>LENGTH =</b>	<b>8.00</b>	<b>ft</b>	
<b>F<sub>b</sub> =</b>	<b>1,688</b>	<b>psi</b>	
<b>F<sub>v</sub> =</b>	<b>213</b>	<b>psi</b>	
<b>E =</b>	<b>1,600,000</b>	<b>psi</b>	
<b>M<sub>MAX</sub> =</b>	<b>13,823</b>	<b>lb-ft</b>	
<b>V<sub>MAX</sub> =</b>	<b>5,004</b>	<b>lb</b>	
<b>R<sub>1</sub> =</b>	<b>4,709.73</b>	<b>lb</b>	
<b>R<sub>2</sub> =</b>	<b>5,004.02</b>	<b>lb</b>	
<b>S<sub>req</sub> =</b>	<b>98.30</b>	<b>IN^3</b>	
<b>A<sub>req</sub> =</b>	<b>34.94</b>	<b>IN^2</b>	
<b>Delta<sub>LL,ALLOW</sub> =</b>	<b>0.27</b>	<b>in</b>	
<b>Delta<sub>TL,ALLOW</sub> =</b>	<b>0.40</b>	<b>in</b>	

<b>C<sub>D</sub> =</b>	<b>1.25</b>
<b>C<sub>M</sub> =</b>	<b>1.00</b>
<b>C<sub>t</sub> =</b>	<b>1.00</b>
<b>C<sub>L</sub> =</b>	<b>1.00</b>
<b>C<sub>r</sub> =</b>	<b>1.00</b>
<b>C<sub>c</sub> =</b>	<b>1.00</b>
<b>C<sub>f</sub> =</b>	<b>1.00</b>
<b>C<sub>v</sub> =</b>	<b>1.00</b>
<b>C<sub>F</sub> =</b>	<b>1.00</b>
<b>C<sub>fu</sub> =</b>	<b>1.00</b>



<b>I<sub>actual</sub> =</b>	<b>392.96</b>			
<b>CHECK:</b>				
<b>S<sub>actual</sub> =</b>	<b>82.73</b>	<b>in^3</b>	<b>&lt;</b>	<b>98.30 in^3 N.G.</b>
<b>A<sub>actual</sub> =</b>	<b>52.25</b>	<b>in^2</b>	<b>&gt;</b>	<b>34.94 in^2 O.K.</b>
<b>Delta LL =</b>	<b>0.10</b>	<b>in</b>	<b>&lt;</b>	<b>0.27 in O.K.</b>
<b>Delta TL =</b>	<b>0.23</b>	<b>in</b>	<b>&lt;</b>	<b>0.40 in O.K.</b>
<b>1.5xDL Deflection =</b>			<b>0.19</b>	<b>inches</b>
			<b>LL =&gt;</b>	<b>L/? = 942</b>
			<b>TL =&gt;</b>	<b>L/? = 419</b>

**UNIFORM LOADS**

<b>W<sub>DL</sub> =</b>	<b>68.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>wall</b>
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	

**POINT LOADS**

			<b>a (ft)</b>			<b>a (ft)</b>	
<b>P<sub>DL</sub> =</b>	<b>2,691.00</b>	<b>lb @</b>	<b>3.00</b>	<b>P<sub>LL</sub> =</b>	<b>2,340.00</b>	<b>lb @</b>	<b>3.00</b>
<b>P<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>P<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>
<b>P<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>P<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>
<b>P<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>P<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>
<b>P<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>P<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>

**UNIFORM LOADS PARTIALLY DISTRIBUTED**

			<b>a (ft)</b>	<b>b (ft)</b>		<b>a (ft)</b>	<b>b (ft)</b>
<b>W<sub>DL</sub> =</b>	<b>442.75</b>	<b>lb/ft @</b>	<b>3.00</b>	<b>5.00</b>	<b>W<sub>LL</sub> =</b>	<b>385.00</b>	<b>lb/ft @</b>
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>

NOTE: b IS THE DISTANCE FROM THE START TO THE END OF THE UNIFORMLY DISTRIBUTED LOAD.

L.R. NELSON CONSULTING ENGINEERS, INC.

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA  
SUBJECT: Beams & Headers

SHEET \_\_\_\_\_  
DESIGNED MS

OF \_\_\_\_\_  
CHECKED KAB

DESCRIPTION:	<b>RB6</b>	Roof Tributary =	0.00	ft	$W_{DL}$ =	0.00	lb/ft	$C_D$ =	1.00	$C_{V/L}$ =	1.00
SIZE:	6X10	Floor Tributary =	0.00	ft	$W_{LL}$ =	0.00	lb/ft	$C_t$ =	1.00	$C_F$ =	1.00
GRADE:	DFL#1 (TIMBERS)	Wall Tributary =	0.00	ft	$P_{DL}$ =	0.00	lb	$I_u$ =	8.00		
LENGTH (ft)=	8.00	Additional Load =	0.00	plf	$P_{LL}$ =	0.00	lb	Reduction ( $L_r$ )			%
NOTES:	See additional calculation										
					$d_{Point Load}$ =	0.00	ft	Reduction (L)			%
					Source:			L/xxx	Alternate Loads		
								360	#1	#2	LL
								240			
								Source	Lx	Ly	
Left Reaction =	1,737	lb	Post:	2X6	DFLSTUD	O.K.	1,736.69	lb	8.0	2.0	ft
Right Reaction =	5,494	lb	Post:	2X6	DFLSTUD	O.K.	5,493.81	lb	8.0	2.0	ft

DESCRIPTION:	<b>RB7</b>	Roof Tributary =	0.00	ft	$W_{DL}$ =	0.00	lb/ft	$C_D$ =	1.25	$C_{V/L}$ =	1.00
SIZE:	6X10	Floor Tributary =	0.00	ft	$W_{LL}$ =	0.00	lb/ft	$C_t$ =	1.00	$C_F$ =	1.00
GRADE:	DFL#1 (TIMBERS)	Wall Tributary =	0.00	ft	$P_{DL}$ =	0.00	lb	$I_u$ =	2.00		
LENGTH (ft)=	8.00	Additional Load =	0.00	plf	$P_{LL}$ =	0.00	lb	Reduction ( $L_r$ )			%
NOTES:	See additional calculation										
					$d_{Point Load}$ =	0.00	ft	Reduction (L)			%
					Source:			L/xxx	Alternate		
								360	#1	#2	LL
								240			
								Source	Lx	Ly	
Left Reaction =	3,195	lb	Post:	2X6	DFLSTUD	O.K.	3,195.28	lb	9.0	2.0	ft
Right Reaction =	3,230	lb	Post:	2X6	DFLSTUD	O.K.	3,229.97	lb	9.0	2.0	ft

DESCRIPTION:	<b>RB8</b>	Roof Tributary =	17.00	ft	$W_{DL}$ =	471.00	lb/ft	$C_D$ =	1.25	$C_{V/L}$ =	1.00
SIZE:	6X8	Floor Tributary =	0.00	ft	$W_{LL}$ =	340.00	lb/ft	$C_t$ =	1.00	$C_F$ =	1.00
GRADE:	DFL#1 (TIMBERS)	Wall Tributary =	5.00	ft	$P_{DL}$ =	2,691.00	lb	$I_u$ =	2.00		
LENGTH (ft)=	3.50	Additional Load =	0.00	plf	$P_{LL}$ =	2,340.00	lb	Reduction ( $L_r$ )			%
NOTES:	See additional calculation										
					$d_{Point Load}$ =	0.50	ft	Reduction (L)			%
					Source:	GT1		L/xxx	Alternate		
								360	#1	#2	LL
								240			
								Source	Lx	Ly	
Left Reaction =	5,732	lb	Post:	2X6	DFLSTUD	O.K.		lb	8.0	2.0	ft
Right Reaction =	2,138	lb	Post:	2X6	DFLSTUD	O.K.		lb	8.0	2.0	ft

DESCRIPTION:	<b>RB9</b>	Roof Tributary =	3.00	ft	$W_{DL}$ =	149.00	lb/ft	$C_D$ =	1.25	$C_{V/L}$ =	0.97	
SIZE:	6X12	Floor Tributary =	0.00	ft	$W_{LL}$ =	60.00	lb/ft	$C_t$ =	1.00	$C_F$ =	1.00	
GRADE:	DFL#1 (TIMBERS)	Wall Tributary =	5.00	ft	$P_{DL}$ =		lb	$I_u$ =	19.50			
LENGTH (ft)=	19.50	Additional Load =	0.00	plf	$P_{LL}$ =		lb	Reduction ( $L_r$ )			%	
NOTES:	See additional calculation											
					$d_{Point Load}$ =		ft	Reduction (L)			%	
					Source:			L/xxx	Alternate			
								360	#1	#2	LL	
								240				
								Source	Lx	Ly		
Left Reaction =	4,369	lb	Post:	2X6	DFLSTUD	O.K.	2,332	lb	RB1	8.0	2.0	ft
Right Reaction =	4,369	lb	Post:	2X6	DFLSTUD	O.K.	2,332	lb	RB1	8.0	2.0	ft

DESCRIPTION:	<b>RB10</b>	Roof Tributary =	17.00	ft	$W_{DL}$ =	471.00	lb/ft	$C_D$ =	1.25	$C_{V/L}$ =	1.00
SIZE:	6X8	Floor Tributary =	0.00	ft	$W_{LL}$ =	340.00	lb/ft	$C_t$ =	1.00	$C_F$ =	1.00
GRADE:	DFL#1 (TIMBERS)	Wall Tributary =	5.00	ft	$P_{DL}$ =	1,552.50	lb	$I_u$ =	5.75		
LENGTH (ft)=	5.75	Additional Load =	0.00	plf	$P_{LL}$ =	1,350.00	lb	Reduction ( $L_r$ )			%
NOTES:	See additional calculation										
					$d_{Point Load}$ =	0.25	ft	Reduction (L)			%
					Source:			L/xxx	Alternate		
								360	#1	#2	LL
								240			
								Source	Lx	Ly	
Left Reaction =	5,108	lb	Post:	2X6	DFLSTUD	O.K.		lb	9.0	2.0	ft
Right Reaction =	2,458	lb	Post:	2X6	DFLSTUD	O.K.		lb	9.0	2.0	ft

# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

**PROJECT SUBJECT** SNRHA BENNET PLAZA **SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_  
BEAMS AND HEADERS **DESIGNED** MS **CHECKED** KAB

**(SIMPLY SUPPORTED BEAM)**

<b>DESCRIPTION:</b>	<b>RB6</b>				
<b>SIZE:</b>	<b>6X10</b>	$C_D = 1.25$			
<b>GRADE:</b>	<b>DFL#1 (TIMBERS)</b>	$C_M = 1.00$			
<b>LENGTH =</b>	<b>8.00</b> ft	$C_t = 1.00$			
		$C_L = 1.00$			
$F_b =$	1,688 psi	$C_r = 1.00$			
$F_v =$	213 psi	$C_c = 1.00$			
$E =$	1,600,000 psi	$C_f = 1.00$			
$M_{MAX} =$	9,196 lb-ft	$C_v = 1.00$			
$V_{MAX} =$	5,494 lb	$C_F = 1.00$			
		$C_{fu} = 1.00$			
		$I_{actual} = 392.96$			
$R_1 =$	1,736.69 lb	<b>CHECK:</b>			
$R_2 =$	5,493.81 lb	$S_{actual} = 82.73$ in <sup>3</sup>	>	65.39 in <sup>3</sup>	<b>O.K.</b>
		$A_{actual} = 52.25$ in <sup>2</sup>	>	38.40 in <sup>2</sup>	<b>O.K.</b>
$S_{req} =$	65.39 IN <sup>3</sup>	Delta LL = 0.06 in	<	0.27 in	<b>O.K.</b>
$A_{req} =$	38.40 IN <sup>2</sup>	Delta TL = 0.13 in	<	0.40 in	<b>O.K.</b>
Delta <sub>LL,ALLOW</sub> =	0.27 in				LL => L/? = 1708
Delta <sub>TL,ALLOW</sub> =	0.40 in	1.5xDL Deflection = <b>0.11</b> inches			TL => L/? = 735

**UNIFORM LOADS**

$W_{DL} = 68.00$ lb/ft	$W_{LL} = 0.00$ lb/ft	wall
$W_{DL} = 0.00$ lb/ft	$W_{LL} = 0.00$ lb/ft	
$W_{DL} = 0.00$ lb/ft	$W_{LL} = 0.00$ lb/ft	
$W_{DL} = 0.00$ lb/ft	$W_{LL} = 0.00$ lb/ft	
$W_{DL} = 0.00$ lb/ft	$W_{LL} = 0.00$ lb/ft	

**POINT LOADS**

$P_{DL} = 2,691.00$ lb @	$a$ (ft) = 6.00	$P_{LL} = 2,340.00$ lb @	$a$ (ft) = 6.00	GT1
$P_{DL} = 0.00$ lb @	$a$ (ft) = 0.00	$P_{LL} = 0.00$ lb @	$a$ (ft) = 0.00	
$P_{DL} = 0.00$ lb @	$a$ (ft) = 0.00	$P_{LL} = 0.00$ lb @	$a$ (ft) = 0.00	
$P_{DL} = 0.00$ lb @	$a$ (ft) = 0.00	$P_{LL} = 0.00$ lb @	$a$ (ft) = 0.00	
$P_{DL} = 0.00$ lb @	$a$ (ft) = 0.00	$P_{LL} = 0.00$ lb @	$a$ (ft) = 0.00	

**UNIFORM LOADS PARTIALLY DISTRIBUTED**

$W_{DL} = 442.75$ lb/ft @	$a$ (ft) = 6.00	$b$ (ft) = 2.00	$W_{LL} = 385.00$ lb/ft @	$a$ (ft) = 6.00	$b$ (ft) = 2.00
$W_{DL} = 0.00$ lb/ft @	$a$ (ft) = 0.00	$b$ (ft) = 0.00	$W_{LL} = 0.00$ lb/ft @	$a$ (ft) = 0.00	$b$ (ft) = 0.00
$W_{DL} = 0.00$ lb/ft @	$a$ (ft) = 0.00	$b$ (ft) = 0.00	$W_{LL} = 0.00$ lb/ft @	$a$ (ft) = 0.00	$b$ (ft) = 0.00
$W_{DL} = 0.00$ lb/ft @	$a$ (ft) = 0.00	$b$ (ft) = 0.00	$W_{LL} = 0.00$ lb/ft @	$a$ (ft) = 0.00	$b$ (ft) = 0.00
$W_{DL} = 0.00$ lb/ft @	$a$ (ft) = 0.00	$b$ (ft) = 0.00	$W_{LL} = 0.00$ lb/ft @	$a$ (ft) = 0.00	$b$ (ft) = 0.00

NOTE: b IS THE DISTANCE FROM THE START TO THE END OF THE UNIFORMLY DISTRIBUTED LOAD.

# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

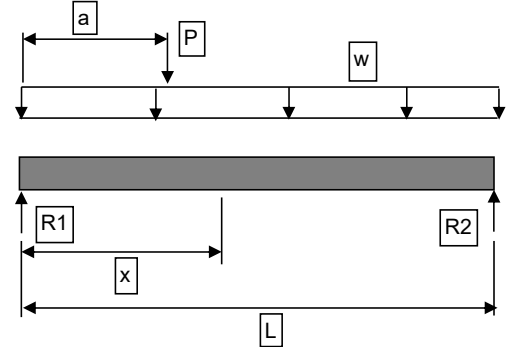
**PROJECT** SNRHA BENNET PLAZA  
**SUBJECT** BEAMS AND HEADERS

**SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_  
**DESIGNED** MS **CHECKED** KAB

**(SIMPLY SUPPORTED BEAM)**

<b>DESCRIPTION:</b>	<b>RB7</b>		
<b>SIZE:</b>	<b>6X10</b>		
<b>GRADE:</b>	<b>DFL#1 (TIMBERS)</b>		
<b>LENGTH =</b>	<b>8.00</b>	<b>ft</b>	
<b>F<sub>b</sub> =</b>	<b>1,688</b>	<b>psi</b>	
<b>F<sub>v</sub> =</b>	<b>213</b>	<b>psi</b>	
<b>E =</b>	<b>1,600,000</b>	<b>psi</b>	
<b>M<sub>MAX</sub> =</b>	<b>9,280</b>	<b>lb-ft</b>	
<b>V<sub>MAX</sub> =</b>	<b>3,230</b>	<b>lb</b>	
<b>R<sub>1</sub> =</b>	<b>3,195.28</b>	<b>lb</b>	
<b>R<sub>2</sub> =</b>	<b>3,229.97</b>	<b>lb</b>	
<b>S<sub>req</sub> =</b>	<b>65.99</b>	<b>IN^3</b>	
<b>A<sub>req</sub> =</b>	<b>22.42</b>	<b>IN^2</b>	
<b>Delta<sub>LL,ALLOW</sub> =</b>	<b>0.27</b>	<b>in</b>	
<b>Delta<sub>TL,ALLOW</sub> =</b>	<b>0.40</b>	<b>in</b>	

<b>C<sub>D</sub> =</b>	<b>1.25</b>
<b>C<sub>M</sub> =</b>	<b>1.00</b>
<b>C<sub>t</sub> =</b>	<b>1.00</b>
<b>C<sub>L</sub> =</b>	<b>1.00</b>
<b>C<sub>r</sub> =</b>	<b>1.00</b>
<b>C<sub>c</sub> =</b>	<b>1.00</b>
<b>C<sub>f</sub> =</b>	<b>1.00</b>
<b>C<sub>v</sub> =</b>	<b>1.00</b>
<b>C<sub>F</sub> =</b>	<b>1.00</b>
<b>C<sub>fu</sub> =</b>	<b>1.00</b>



<b>I<sub>actual</sub> =</b>	<b>392.96</b>		
<b>CHECK:</b>			
<b>S<sub>actual</sub> =</b>	<b>82.73</b>	<b>in^3</b>	<b>&gt; 65.99 in^3 O.K.</b>
<b>A<sub>actual</sub> =</b>	<b>52.25</b>	<b>in^2</b>	<b>&gt; 22.42 in^2 O.K.</b>
<b>Delta LL =</b>	<b>0.05</b>	<b>in</b>	<b>&lt; 0.27 in O.K.</b>
<b>Delta TL =</b>	<b>0.14</b>	<b>in</b>	<b>&lt; 0.40 in O.K.</b>
<b>1.5xDL Deflection =</b>	<b>0.13</b>	<b>inches</b>	<b>LL =&gt; L/? = 1756</b>
			<b>TL =&gt; L/? = 669</b>

**UNIFORM LOADS**

<b>W<sub>DL</sub> =</b>	<b>68.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>wall</b>
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft</b>	

**POINT LOADS**

<b>P<sub>DL</sub> =</b>	<b>2,616.25</b>	<b>lb @</b>	<b>a (ft)</b>	<b>3.00</b>	<b>P<sub>LL</sub> =</b>	<b>1,760.00</b>	<b>lb @</b>	<b>a (ft)</b>	<b>3.00</b>	<b>GT1</b>
<b>P<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>0.00</b>	<b>P<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>0.00</b>	
<b>P<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>0.00</b>	<b>P<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>0.00</b>	
<b>P<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>0.00</b>	<b>P<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>0.00</b>	
<b>P<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>0.00</b>	<b>P<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb @</b>	<b>0.00</b>	<b>0.00</b>	

**UNIFORM LOADS PARTIALLY DISTRIBUTED**

<b>W<sub>DL</sub> =</b>	<b>402.50</b>	<b>lb/ft @</b>	<b>a (ft)</b>	<b>6.00</b>	<b>b (ft)</b>	<b>2.00</b>	<b>W<sub>LL</sub> =</b>	<b>350.00</b>	<b>lb/ft @</b>	<b>a (ft)</b>	<b>6.00</b>	<b>b (ft)</b>	<b>2.00</b>
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>W<sub>DL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>W<sub>LL</sub> =</b>	<b>0.00</b>	<b>lb/ft @</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	

NOTE: b IS THE DISTANCE FROM THE START TO THE END OF THE UNIFORMLY DISTRIBUTED LOAD.

L.R. NELSON CONSULTING ENGINEERS, INC.

REVISED

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA
SUBJECT: Beams & Headers

SHEET DESIGNED MS

OF CHECKED KAB

Table for FB1: Roof Tributary = 0.00 ft, Floor Tributary = 3.50 ft, Wall Tributary = 3.50 ft, Additional Load = 0.00 plf. Includes reaction values (4,911 lb) and deflection calculations.

Table for FB2: Roof Tributary = 0.00 ft, Floor Tributary = 16.00 ft, Wall Tributary = 5.00 ft, Additional Load = 0.00 plf. Includes reaction values (5,192 lb) and deflection calculations.

Table for FB3: Roof Tributary = 0.00 ft, Floor Tributary = 16.00 ft, Wall Tributary = 5.00 ft, Additional Load = 0.00 plf. Includes reaction values (8,592 lb) and deflection calculations.

Table for FB4 (NOT USED): Roof Tributary = 0.00 ft, Floor Tributary = 0.00 ft, Wall Tributary = 0.00 ft, Additional Load = 0.00 plf. Includes reaction values (0 lb) and deflection calculations.

Table for FB5: Roof Tributary = 0.00 ft, Floor Tributary = 16.00 ft, Wall Tributary = 5.00 ft, Additional Load = 0.00 plf. Includes reaction values (9,214 lb) and deflection calculations.

L.R. NELSON CONSULTING ENGINEERS, INC.

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_

OF \_\_\_\_\_

SUBJECT: Beams & Headers

DESIGNED MS

CHECKED KAB

DESCRIPTION: **FB6 (NOT USED)** Roof Tributary = 0.00 ft  $W_{DL}$  = 388.02 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 1.00  
 SIZE: 5-1/8X10-1/2 Floor Tributary = 17.00 ft  $W_{LL}$  = 1,700.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: 24F-V4 Wall Tributary = 3.00 ft  $P_{DL}$  = 1,100.04 lb  $I_u$  = 2.00  
 LENGTH (ft) = 5.50 Additional Load = 0.00 plf  $P_{LL}$  = 1,760.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = 2.50 ft Reduction (L) %  
 Source: **FB3** L/xxx **Alternate Loads**  

Actual	Req'd			
S = 94.17 in <sup>3</sup>	> 58.77 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.05 in = L / 1293	360 #1 #2 LL
A = 53.81 in <sup>2</sup>	> 30.99 in <sup>2</sup>	<b>O.K.</b>	Max TL Deflection = 0.07 in = L / 980	240 #1 #2 LL
I = 494.40 in <sup>4</sup>	> 137.63 in <sup>4</sup>	<b>O.K.</b>	Add'l Load to Post	Source Lx Ly

 Left Reaction = 10,082 lb Post: (3)2X6 DFLSTUD **O.K.** 2,780 lb RB4 8.0 2.0 ft  
 Right Reaction = 9,822 lb Post: (3)2X6 DFLSTUD **O.K.** 2,780 lb RB4 8.0 2.0 ft

DESCRIPTION: **FB7** Roof Tributary = 0.00 ft  $W_{DL}$  = 382.02 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 1.00  
 SIZE: 6X10 Floor Tributary = 17.50 ft  $W_{LL}$  = 700.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 2.00 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 8.00  
 LENGTH (ft) = 8.00 Additional Load = 0.00 plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = 0.00 ft Reduction (L) %  
 Source: L/xxx **Alternate**  

Actual	Req'd			
S = 82.73 in <sup>3</sup>	> 76.94 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.10 in = L / 936	360 #1 #2 LL
A = 52.25 in <sup>2</sup>	> 30.63 in <sup>2</sup>	<b>O.K.</b>	Max TL Deflection = 0.16 in = L / 605	240 #1 #2 LL
I = 392.96 in <sup>4</sup>	> 155.81 in <sup>4</sup>	<b>O.K.</b>	Add'l Load to Post	Source Lx Ly

 Left Reaction = 9,140 lb Post: (2)2X6 DFLSTUD **O.K.** 4,812 lb 8.0 2.0 ft  
 Right Reaction = 9,175 lb Post: (2)2X6 DFLSTUD **O.K.** 4,847 lb 8.0 2.0 ft

DESCRIPTION: **FB8** Roof Tributary = 0.00 ft  $W_{DL}$  = 80.00 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 1.00  
 SIZE: 4X12 Floor Tributary = ft  $W_{LL}$  = 0.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.10  
 GRADE: DFL#2 Wall Tributary = 5.00 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 2.00  
 LENGTH (ft) = 7.00 Additional Load = 0.00 plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = 0.00 ft Reduction (L) %  
 Source: L/xxx **Alternate**  

Actual	Req'd			
S = 73.83 in <sup>3</sup>	> 5.94 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.00 in = N/A	360 #1 #2 LL
A = 39.38 in <sup>2</sup>	> 1.71 in <sup>2</sup>	<b>O.K.</b>	Max TL Deflection = 0.01 in = L / 12914	240 #1 #2 LL
I = 415.28 in <sup>4</sup>	> 7.72 in <sup>4</sup>	<b>O.K.</b>	Add'l Load to Post	Source Lx Ly

 Left Reaction = 280 lb Post: 2X6 DFLSTUD **O.K.** lb 8.0 2.0 ft  
 Right Reaction = 280 lb Post: 2X6 DFLSTUD **O.K.** lb 8.0 2.0 ft

DESCRIPTION: **FB9** Roof Tributary = 0.00 ft  $W_{DL}$  = 400.02 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 1.00  
 SIZE: 6X10 Floor Tributary = 16.00 ft  $W_{LL}$  = 1,600.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 5.00 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 2.00  
 LENGTH (ft) = 5.50 Additional Load = 0.00 plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = ft Reduction (L) %  
 Source: L/xxx **Alternate**  

Actual	Req'd			
S = 82.73 in <sup>3</sup>	> 67.22 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.05 in = L / 1260	360 #1 #2 LL
A = 52.25 in <sup>2</sup>	> 34.56 in <sup>2</sup>	<b>O.K.</b>	Max TL Deflection = 0.07 in = L / 1008	240 #1 #2 LL
I = 392.96 in <sup>4</sup>	> 112.30 in <sup>4</sup>	<b>O.K.</b>	Add'l Load to Post	Source Lx Ly

 Left Reaction = 10,608 lb Post: (2)2X6 DFLSTUD **O.K.** 5,108 lb RB10 9.0 2.0 ft  
 Right Reaction = 7,958 lb Post: (2)2X6 DFLSTUD **O.K.** 2,458 lb RB10 9.0 2.0 ft

DESCRIPTION: **FB10** Roof Tributary = 0.00 ft  $W_{DL}$  = 126.01 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 0.98  
 SIZE: 4X12 Floor Tributary = 3.50 ft  $W_{LL}$  = 350.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.10  
 GRADE: DFL#2 Wall Tributary = 3.50 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 9.00  
 LENGTH (ft) = 9.00 Additional Load = 0.00 plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = ft Reduction (L) %  
 Source: L/xxx **Alternate**  

Actual	Req'd			
S = 73.83 in <sup>3</sup>	> 59.49 in <sup>3</sup>	<b>O.K.</b>	Max LL Deflection = 0.08 in = L / 1389	360 #1 #2 LL
A = 39.38 in <sup>2</sup>	> 14.13 in <sup>2</sup>	<b>O.K.</b>	Max TL Deflection = 0.11 in = L / 1021	240 #1 #2 LL
I = 415.28 in <sup>4</sup>	> 107.64 in <sup>4</sup>	<b>O.K.</b>	Add'l Load to Post	Source Lx Ly

 Left Reaction = 5,856 lb Post: (2)2X6 DFLSTUD **O.K.** 3,714 lb RB2 8.0 2.0 ft  
 Right Reaction = 5,856 lb Post: (2)2X6 DFLSTUD **O.K.** 3,714 lb RB2 8.0 2.0 ft

L.R. NELSON CONSULTING ENGINEERS, INC.

REVISED

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA
SUBJECT: Beams & Headers

SHEET DESIGNED MS

OF CHECKED KAB

Table for beam FB11: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Reactions, Deflections, and Source information.

Table for beam FB12: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Reactions, Deflections, and Source information.

Table for beam with no size: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Reactions, Deflections, and Source information.

Table for beam with no size: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Reactions, Deflections, and Source information.

Table for beam with no size: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Reactions, Deflections, and Source information.

L.R. NELSON CONSULTING ENGINEERS, INC.

**REVISED**

JOB NO. 729-086-241  
 DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 SUBJECT: Beams & Headers DESIGNED MS CHECKED KAB

DESCRIPTION: **FB1** Roof Tributary = 0.00 ft W<sub>DL</sub> = 126.01 lb/ft C<sub>D</sub> = 1.00 C<sub>V/L</sub> = 1.00  
 SIZE: 4X8 Floor Tributary = 3.50 ft W<sub>LL</sub> = 140.00 lb/ft C<sub>t</sub> = 1.00 C<sub>F</sub> = 1.30  
 GRADE: DFL#2 Wall Tributary = 3.50 ft P<sub>DL</sub> = 0.00 lb I<sub>u</sub> = 2.00  
 LENGTH (ft) = 9.00 Additional Load = 0.00 plf P<sub>LL</sub> = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES: ROOM DECK BEAMS d<sub>Point Load</sub> = 0.00 ft Reduction (L) %

Actual	Req'd	
S = 30.66 in <sup>3</sup>	> 27.69 in <sup>3</sup>	O.K.
A = 25.38 in <sup>2</sup>	> 8.64 in <sup>2</sup>	O.K.
I = 111.15 in <sup>4</sup>	> 54.54 in <sup>4</sup>	O.K.

Max LL Deflection = 0.12 in = L / 929  
 Max TL Deflection = 0.22 in = L / 489

Source	L/xxx	Alternate Loads
	360	#1 #2 LL
	240	

Source	Lx	Ly
FB1	9.0	2.0
FB1	9.0	2.0

Left Reaction = 6,108 lb Post: (2)2X6 DFLSTUD O.K. 4,911 lb  
 Right Reaction = 6,108 lb Post: (2)2X6 DFLSTUD O.K. 4,911 lb

DESCRIPTION: **FB2** Roof Tributary = 0.00 ft W<sub>DL</sub> = 320.01 lb/ft C<sub>D</sub> = 1.00 C<sub>V/L</sub> = 1.00  
 SIZE: 6X8 Floor Tributary = 16.00 ft W<sub>LL</sub> = 640.00 lb/ft C<sub>t</sub> = 1.00 C<sub>F</sub> = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 0.00 ft P<sub>DL</sub> = 0.00 lb I<sub>u</sub> = 5.50  
 LENGTH (ft) = 5.50 Additional Load = 0.00 plf P<sub>LL</sub> = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES: d<sub>Point Load</sub> = 0.00 ft Reduction (L) %

Actual	Req'd	
S = 51.56 in <sup>3</sup>	> 32.27 in <sup>3</sup>	O.K.
A = 41.25 in <sup>2</sup>	> 18.00 in <sup>2</sup>	O.K.
I = 193.36 in <sup>4</sup>	> 44.92 in <sup>4</sup>	O.K.

Max LL Deflection = 0.04 in = L / 1550  
 Max TL Deflection = 0.06 in = L / 1033

Source	L/xxx	Alternate
	360	#1 #2 LL
	240	

Source	Lx	Ly
FB2	8.0	2.0
FB2	8.0	2.0

Left Reaction = 7,832 lb Post: (2)2X6 DFLSTUD O.K. 5,192 lb  
 Right Reaction = 7,832 lb Post: (2)2X6 DFLSTUD O.K. 5,192 lb

DESCRIPTION: **FB3** Roof Tributary = 2.00 ft W<sub>DL</sub> = 1,030.04 lb/ft C<sub>D</sub> = 1.00 C<sub>V/L</sub> = 0.96  
 SIZE: 5-1/8X22-1/2 Floor Tributary = 30.00 ft W<sub>LL</sub> = 1,240.00 lb/ft C<sub>t</sub> = 1.00 C<sub>F</sub> = 1.00  
 GRADE: 24F-V4 Wall Tributary = 24.00 ft P<sub>DL</sub> = 0.00 lb I<sub>u</sub> = 2.00  
 LENGTH (ft) = 16.50 Additional Load = 0.00 plf P<sub>LL</sub> = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES: d<sub>Point Load</sub> = 0.00 ft Reduction (L) %

Actual	Req'd	
S = 432.42 in <sup>3</sup>	> 401.52 in <sup>3</sup>	O.K.
A = 115.31 in <sup>2</sup>	> 81.91 in <sup>2</sup>	O.K.
I = 4864.75 in <sup>4</sup>	> 2,549.33 in <sup>4</sup>	O.K.

Max LL Deflection = 0.24 in = L / 838  
 Max TL Deflection = 0.43 in = L / 458

Source	L/xxx	Alternate
	360	#1 #2 LL
	240	

Source	Lx	Ly
FB2	8.0	2.0
FB2	8.0	2.0

Left Reaction = 18,728 lb Post: 6X6 DFL#1 (TIMBERS) O.K. 5,192 lb  
 Right Reaction = 18,728 lb Post: 6X6 DFL#1 (TIMBERS) O.K. 5,192 lb

DESCRIPTION: **FB4** Roof Tributary = 0.00 ft W<sub>DL</sub> = 1,474.06 lb/ft C<sub>D</sub> = 1.00 C<sub>V/L</sub> = #N/A  
 SIZE: Floor Tributary = 52.00 ft W<sub>LL</sub> = 2,080.00 lb/ft C<sub>t</sub> = 1.00 C<sub>F</sub> = #N/A  
 GRADE: Wall Tributary = 24.00 ft P<sub>DL</sub> = 0.00 lb I<sub>u</sub> = 2.00  
 LENGTH (ft) = 32.50 Additional Load = 50.00 plf P<sub>LL</sub> = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES: See Additional Calc W21X73 d<sub>Point Load</sub> = 0.50 ft Reduction (L) %

Actual	Req'd	
S = #N/A in <sup>3</sup>	#N/A in <sup>3</sup>	#N/A
A = #N/A in <sup>2</sup>	#N/A in <sup>2</sup>	#N/A
I = #N/A in <sup>4</sup>	#N/A in <sup>4</sup>	#N/A

Max LL Deflection = #VALUE! #VALUE!  
 Max TL Deflection = #VALUE! #VALUE!

Source	L/xxx	Alternate
	360	#1 #2 LL
	240	

Source	Lx	Ly
	8.0	2.0
	8.0	2.0

Left Reaction = 57,753 lb Post: 2X4 DFLSTUD N.G. lb  
 Right Reaction = 57,753 lb Post: 2X4 DFLSTUD N.G. lb

DESCRIPTION: **FB5** Roof Tributary = 0.00 ft W<sub>DL</sub> = 400.02 lb/ft C<sub>D</sub> = 1.00 C<sub>V/L</sub> = 1.00  
 SIZE: 6X10 Floor Tributary = 16.00 ft W<sub>LL</sub> = 1,600.00 lb/ft C<sub>t</sub> = 1.00 C<sub>F</sub> = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 5.00 ft P<sub>DL</sub> = 0.00 lb I<sub>u</sub> = 5.50  
 LENGTH (ft) = 5.50 Additional Load = 0.00 plf P<sub>LL</sub> = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES: d<sub>Point Load</sub> = 0.50 ft Reduction (L) %

Actual	Req'd	
S = 82.73 in <sup>3</sup>	> 67.22 in <sup>3</sup>	O.K.
A = 52.25 in <sup>2</sup>	> 34.56 in <sup>2</sup>	O.K.
I = 392.96 in <sup>4</sup>	> 112.30 in <sup>4</sup>	O.K.

Max LL Deflection = 0.05 in = L / 1260  
 Max TL Deflection = 0.07 in = L / 1008

Source	L/xxx	Alternate
	360	#1 #2 LL
	240	

Source	Lx	Ly
FB5	8.0	2.0
FB5	8.0	2.0

Left Reaction = 14,714 lb Post: (3)2X6 DFLSTUD O.K. 9,214 lb  
 Right Reaction = 14,714 lb Post: (3)2X6 DFLSTUD O.K. 9,214 lb



L.R. NELSON CONSULTING ENGINEERS, INC.

REVISED

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA
SUBJECT: Beams & Headers

SHEET OF
DESIGNED MS CHECKED KAB

Table for beam FB6: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd values, Deflection, Reactions, and Source information.

Table for beam FB7: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd values, Deflection, Reactions, and Source information.

Table for beam FB8: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd values, Deflection, Reactions, and Source information.

Table for beam FB9: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd values, Deflection, Reactions, and Source information.

Table for beam FB10: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual/Req'd values, Deflection, Reactions, and Source information.

L.R. NELSON CONSULTING ENGINEERS, INC.

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA
SUBJECT: Beams & Headers

SHEET DESIGNED MS

OF CHECKED KAB

Table for beam FB11: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Max LL/TL Deflection, Reactions, and Source/Alternate Loads.

Table for beam FB12: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Max LL/TL Deflection, Reactions, and Source/Alternate Loads.

Table for beam FB13: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Max LL/TL Deflection, Reactions, and Source/Alternate Loads.

Table for beam FB14: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Max LL/TL Deflection, Reactions, and Source/Alternate Loads.

Table for beam FB15: DESCRIPTION, SIZE, GRADE, LENGTH, NOTES, Actual vs Req'd, Max LL/TL Deflection, Reactions, and Source/Alternate Loads.

# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241

**DATE:** 04/25/24

**PROJECT SUBJECT** SNRHA BENNET PLAZA  
BEAMS AND HEADERS

**SHEET OF**  
**DESIGNED MS CHECKED**

Span , ft	6.25	MEMBER:	FB13-2ND	SEISMIC AND WIND C
UNIFORM LOADS, plf (continuous across entire member)				
w1DL	126.01	Continuous lateral support (1= yes, 0= no)?		1 Yes
w1LL	140.00	0 sses adjusted to ASD design (1= yes, 0= no)?		1 Yes

POINT LOADS, lbs								Distance to Point Loads (from left end of span), ft							
P1 D	1147.55	a1	1.00 ft	P3 D	0.00	a3	1.00 ft								
P1 LL	1485.00							P3 LL	0.00						
P2 D	0.00	a2	1.00 ft	P4 D	0.00	a4	1.00 ft								
P2 LL	0.00							P4 LL	0.00						
PE1	5335.89	a E1	2.50 ft	PW1	2258.80	a W1	2.50 ft								
PE2	0.00	a E2	0.00 ft	PW2	0.00	a W2	0.00 ft								
PE3	0.00	a E3	0.00 ft	PW3	0.00	a W3	0.00 ft								
PE4	0.00	a E4	0.00 ft	PW4	0.00	a W4	0.00 ft								

(Note: seismic loads (PE) should be at ASD level, eg E/1.4, program adjusts PE loads to Strength levels)

LINEAR LOADS, plf				CD = 1.60			
qa DL	0.00	a q	1.00 ft	Fasd	= 1.2		
qa LL	0.00	b q	1.00 ft	Ω	= 2.5		
qb DL	0.00			SDS	= 0.550		
qb LL	0.00			f	= 0.75		
				1.0+0.14SDS =	1.077	1.0+0.105SDS =	1.058
				0.6-0.14SDS = 0.523			

**ANALYSIS RESULTS**

CASE 1, (1+0.105SDS)D + 0.75(LL+Lr) + 0.525ΩE      CASE 3, D +0.75(LL + Lr + (W or 0.7E))  
 CASE 2, (0.6-0.14SDS)D - 0.7ΩE                      CASE 4, 0.6D - (W or 0.7E)  
 CASE 5, (1+0.14SDS)D + 0.7ΩE

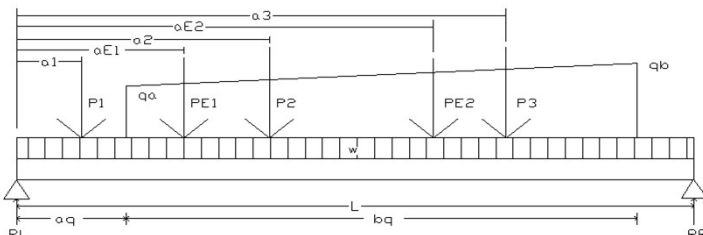
	MAXIMUM	CASE	MINIMUM	CASE	
V <sub>a</sub> =	9404 LB	5	-7324 LB	2	<b>MEMBER DESIGN FORCES</b> NEGATIVE MOMENT -19341 L POSITIVE MOMENT 21387 L MAXIMUM SHEAR 9404
V <sub>b</sub> =	5896 LB	5	-5064 LB	2	
RL =	9466 LB	5	-7294 LB	2	
RR =	5958 LB	5	-5034 LB	2	

**MEMBER DESIGN**

Member Type	DFL#1 (TIMBERS)			A in <sup>2</sup>	S in <sup>3</sup>	I in <sup>4</sup>
Member Section	6X12			63.25	121.23	697.07
Allowable Stress	adjustment factor	Adjusted Stress		Member Stresses		
psi	CD(CL)·(Cx)(Fasd)	psi		psi		
F <sub>v</sub>	170.00	1.92	F <sub>v</sub> = 326 psi	f <sub>v</sub> =	223 psi <span style="color: red;">OKAY</span>	
F <sub>b</sub>	1350.00	1.92	F <sub>b</sub> = 2592 psi	pos f <sub>b</sub> =	2117 psi <span style="color: red;">OKAY</span>	
E	1.6E+06	1.00	E = 1.6E+06	neg f <sub>b</sub> =	333 psi <span style="color: red;">OKAY</span>	
F <sub>b_neg</sub>	1350	1.92	F <sub>b</sub> neg = 2592 psi			

**Provide: 6X12**  
**DFL#1 (TIMBERS)**

NOTES: CMST12  
REQUIRED AT EACH END  
OF MEMBER                      T max= 921



# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241

**DATE:** 04/25/24

**PROJECT SUBJECT** SNRHA BENNET PLAZA  
BEAMS AND HEADERS

**SHEET OF**  
**DESIGNED MS CHECKED**

Span , ft	10.25	MEMBER:	FB14-2ND	SEISMIC AND WIND C
UNIFORM LOADS, plf (continuous across entire member)				
w1DL	126.01	Continuous lateral support (1= yes, 0= no)?		1 Yes
w1LL	140.00	0 sses adjusted to ASD design (1= yes, 0= no)?		1 Yes

POINT LOADS, lbs						Distance to Point Loads (from left end of span), ft					
P1 D	0.00	a1	1.00 ft	P3 D	0.00	a3	1.00 ft	P1 LL	0.00	P3 LL	0.00
P2 D	0.00	a2	1.00 ft	P4 D	0.00	a4	1.00 ft	P2 LL	0.00	P4 LL	0.00

PE1	4947.07	a E1	1.75 ft	PW1	1869.98	a W1	1.75 ft
PE2	0.00	a E2	0.00 ft	PW2	0.00	a W2	0.00 ft
PE3	0.00	a E3	0.00 ft	PW3	0.00	a W3	0.00 ft
PE4	0.00	a E4	0.00 ft	PW4	0.00	a W4	0.00 ft

(Note: seismic loads (PE) should be at ASD level, eg E/1.4, program adjusts PE loads to Strength levels)

LINEAR LOADS, plf				CD = 1.60	
qa DL	0.00	a q	1.00 ft	Fasd = 1.2	
qa LL	0.00	b q	1.00 ft	Ω = 2.5	
qb DL	0.00			SDS = 0.550	
qb LL	0.00			f = 0.75	
				1.0+0.14SDS = 1.077	1.0+0.105SDS = 1.058
				0.6-0.14SDS = 0.523	

**ANALYSIS RESULTS**

CASE 1, (1+0.105SDS)D + 0.75(LL+Lr) + 0.525ΩE      CASE 3, D +0.75(LL + Lr + (W or 0.7E))  
 CASE 2, (0.6-0.14SDS)D - 0.7ΩE      CASE 4, 0.6D - (W or 0.7E)  
 CASE 5, (1+0.14SDS)D + 0.7ΩE

	MAXIMUM	CASE	MINIMUM	CASE
V <sub>a</sub> =	9404 LB	5	-7324 LB	2
V <sub>b</sub> =	5896 LB	5	-5064 LB	2
RL =	9466 LB	5	-7294 LB	2
RR =	5958 LB	5	-5034 LB	2

MEMBER DESIGN FORCES	
NEGATIVE MOMENT	-19341 L
POSITIVE MOMENT	21387 L
MAXIMUM SHEAR	9404

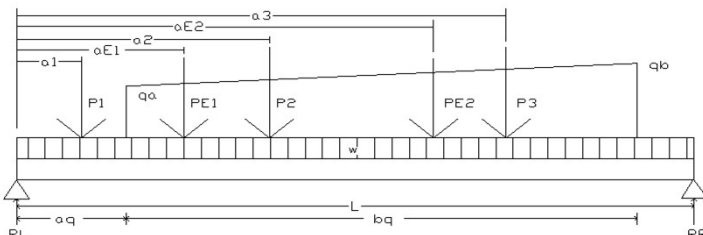
**MEMBER DESIGN**

Member Type	DFL#1 (TIMBERS)	A in <sup>2</sup>	S in <sup>3</sup>	I in <sup>4</sup>
Member Section	6X12	63.25	121.23	697.07

Allowable Stress	adjustment factor	Adjusted Stress	Member Stresses	
psi	CD(CL)·(Cx)(Fasd)	psi	psi	
F <sub>v</sub>	170.00	1.92	F <sub>v</sub> = 326 psi	f <sub>v</sub> = 223 psi <span style="color: red;">OKAY</span>
F <sub>b</sub>	1350.00	1.92	F <sub>b</sub> = 2592 psi	pos f <sub>b</sub> = 2117 psi <span style="color: red;">OKAY</span>
E	1.6E+06	1.00	E = 1.6E+06	neg f <sub>b</sub> = 333 psi <span style="color: red;">OKAY</span>
F <sub>b_neg</sub>	1350	1.92	F <sub>b</sub> neg = 2592 psi	

**Provide: 6X12**  
**DFL#1 (TIMBERS)**

NOTES: CMST12  
REQUIRED AT EACH END  
OF MEMBER      T max= 921



# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241

**DATE:** 04/25/24

**PROJECT SUBJECT** SNRHA BENNET PLAZA  
BEAMS AND HEADERS

**SHEET OF**  
**DESIGNED MS CHECKED**

Span , ft 5.50 MEMBER: FB15-2ND SEISMIC AND WIND C  
UNIFORM LOADS, plf (continuous across entire member)  
w1DL 128.01 0 Continuous lateral support (1= yes, 0= no)? 1 Yes  
w1LL 400.00 0 sses adjusted to ASD design (1= yes, 0= no)? 1 Yes

POINT LOADS, lbs Distance to Point Loads (from left end of span), ft  
P1 D 0.00 a1 1.00 ft P3 D 0.00 a3 1.00 ft  
P1 LL 0.00 P3 LL 0.00  
P2 D 0.00 a2 1.00 ft P4 D 0.00 a4 1.00 ft  
P2 LL 0.00 P4 LL 0.00

PE1 0.00 a E1 5.50 ft PW1 0.00 a W1 5.50 ft  
PE2 0.00 a E2 0.00 ft PW2 0.00 a W2 0.00 ft  
PE3 0.00 a E3 0.00 ft PW3 0.00 a W3 0.00 ft  
PE4 0.00 a E4 0.00 ft PW4 0.00 a W4 0.00 ft  
(Note: seismic loads (PE) should be at ASD level, eg E/1.4, program adjusts PE loads to Strength levels)

LINEAR LOADS, plf CD = 1.60  
qa DL 0.00 a q 1.00 ft Fasd = 1.2  
qa LL 0.00 b q 1.00 ft Ω = 2.5  
qb DL 0.00 SDS = 0.550  
qb LL 0.00 f = 0.75  
1.0+0.14SDS = 1.077 1.0+0.105SDS = 1.058  
0.6-0.14SDS = 0.523

**ANALYSIS RESULTS**

CASE 1, (1+0.105SDS)D + 0.75(LL+Lr) + 0.525ΩE CASE 3, D +0.75(LL + Lr + (W or 0.7E))  
CASE 2, (0.6-0.14SDS)D - 0.7ΩE CASE 4, 0.6D - (W or 0.7E)  
CASE 5, (1+0.14SDS)D + 0.7ΩE

	MAXIMUM	CASE	MINIMUM	CASE
V <sub>a</sub> =	9404 LB	5	-7324 LB	2
V <sub>b</sub> =	5896 LB	5	-5064 LB	2
RL =	9466 LB	5	-7294 LB	2
RR =	5958 LB	5	-5034 LB	2

**MEMBER DESIGN FORCES**  
NEGATIVE MOMENT -19341 L  
POSITIVE MOMENT 21387 L  
MAXIMUM SHEAR 9404

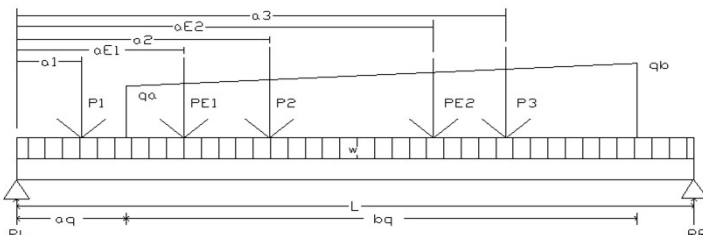
**MEMBER DESIGN**

Member Type DFL#1 (TIMBERS) A in<sup>2</sup> S in<sup>3</sup> I in<sup>4</sup>  
Member Section 6X12 63.25 121.23 697.07

Allowable Stress	adjustment factor	Adjusted Stress	Member Stresses	
psi	CD(CL)·(Cx)(Fasd)	psi	psi	
F <sub>v</sub>	170.00	1.92	F <sub>v</sub> = 326 psi	f <sub>v</sub> = 223 psi <b>OKAY</b>
F <sub>b</sub>	1350.00	1.92	F <sub>b</sub> = 2592 psi	pos f <sub>b</sub> = 2117 psi <b>OKAY</b>
E	1.6E+06	1.00	E = 1.6E+06	neg f <sub>b</sub> = 333 psi <b>OKAY</b>
F <sub>b_neg</sub>	1350	1.92	F <sub>b</sub> neg = 2592 psi	

**Provide: 6X12**  
**DFL#1 (TIMBERS)**

NOTES: CMST12  
REQUIRED AT EACH END  
OF MEMBER T max= 921



L.R. NELSON CONSULTING ENGINEERS, INC.

ADDED CALC

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA  
SUBJECT: Beams & Headers

SHEET \_\_\_\_\_  
DESIGNED MS

OF \_\_\_\_\_  
CHECKED KAB

DESCRIPTION: **FB16** Roof Tributary = 0.00 ft  $W_{DL}$  = 320.01 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 1.00  
 SIZE: 6X10 Floor Tributary = 16.00 ft  $W_{LL}$  = 1,600.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = 0.00 ft  $P_{DL}$  = lb  $I_u$  = 2.00  
 LENGTH (ft) = 5.50 Additional Load = 0.00 plf  $P_{LL}$  = lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = ft Reduction (L) %  
 Source: L/xxx Alternate Loads  

Actual	Req'd			
S = 82.73 in <sup>3</sup>	> 64.53 in <sup>3</sup>	O.K.	Max LL Deflection = 0.05 in = L / 1260	360 #1 #2 LL
A = 52.25 in <sup>2</sup>	> 33.18 in <sup>2</sup>	O.K.	Max TL Deflection = 0.06 in = L / 1050	240 #1 #2 LL
I = 392.96 in <sup>4</sup>	> 112.30 in <sup>4</sup>	O.K.	Add'l Load to Post	Source Lx Ly

 Left Reaction = 13,112 lb Post: (3)2X6 DFLSTUD O.K. 7,832 lb  
 Right Reaction = 13,112 lb Post: (3)2X6 DFLSTUD O.K. 7,832 lb

DESCRIPTION: **FB17** Roof Tributary = ft  $W_{DL}$  = 320.01 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 1.00  
 SIZE: 6X8 Floor Tributary = 16.00 ft  $W_{LL}$  = 640.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: DFL#1 (TIMBERS) Wall Tributary = ft  $P_{DL}$  = 0.00 lb  $I_u$  = 5.50  
 LENGTH (ft) = 5.50 Additional Load = plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = 0.00 ft Reduction (L) %  
 Source: L/xxx Alternate  

Actual	Req'd			
S = 51.56 in <sup>3</sup>	> 32.27 in <sup>3</sup>	O.K.	Max LL Deflection = 0.04 in = L / 1550	360 #1 #2 LL
A = 41.25 in <sup>2</sup>	> 18.00 in <sup>2</sup>	O.K.	Max TL Deflection = 0.06 in = L / 1033	240 #1 #2 LL
I = 193.36 in <sup>4</sup>	> 44.92 in <sup>4</sup>	O.K.	Add'l Load to Post	Source Lx Ly

 Left Reaction = 10,472 lb Post: (2)2X6 DFLSTUD O.K. 7,832 lb  
 Right Reaction = 10,472 lb Post: (2)2X6 DFLSTUD O.K. 7,832 lb

DESCRIPTION: **FB18** Roof Tributary = ft  $W_{DL}$  = 126.01 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 1.00  
 SIZE: 4X8 Floor Tributary = 3.50 ft  $W_{LL}$  = 140.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.30  
 GRADE: DFL#2 Wall Tributary = 3.50 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 2.00  
 LENGTH (ft) = 9.00 Additional Load = plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = 0.00 ft Reduction (L) %  
 Source: L/xxx Alternate  

Actual	Req'd			
S = 30.66 in <sup>3</sup>	> 27.69 in <sup>3</sup>	O.K.	Max LL Deflection = 0.12 in = L / 929	360 #1 #2 LL
A = 25.38 in <sup>2</sup>	> 8.64 in <sup>2</sup>	O.K.	Max TL Deflection = 0.22 in = L / 489	240 #1 #2 LL
I = 111.15 in <sup>4</sup>	> 54.54 in <sup>4</sup>	O.K.	Add'l Load to Post	Source Lx Ly

 Left Reaction = 7,053 lb Post: (2)2X6 DFLSTUD O.K. 5,856 lb  
 Right Reaction = 7,053 lb Post: (2)2X6 DFLSTUD O.K. 5,856 lb

DESCRIPTION: **GLB 1** Roof Tributary = 0.00 ft  $W_{DL}$  = 0.00 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = 0.87  
 SIZE: 5-1/8X33 Floor Tributary = 0.00 ft  $W_{LL}$  = 0.00 lb/ft  $C_t$  = 1.00  $C_F$  = 1.00  
 GRADE: 24F-V4 Wall Tributary = 0.00 ft  $P_{DL}$  = 0.00 lb  $I_u$  = 2.00  
 LENGTH (ft) = 32.50 Additional Load = plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES: SEE ADDITIONAL CALCULATION  $d_{Point Load}$  = ft Reduction (L) %  
 Source: L/xxx Alternate  

Actual	Req'd			
S = 930.19 in <sup>3</sup>	> 0.00 in <sup>3</sup>	O.K.	Max LL Deflection = 0.00 in = N/A	360 #1 #2 LL
A = 169.13 in <sup>2</sup>	> 0.00 in <sup>2</sup>	O.K.	Max TL Deflection = 0.00 in = N/A	240 #1 #2 LL
I = 15348.09 in <sup>4</sup>	> 0.00 in <sup>4</sup>	O.K.	Add'l Load to Post	Source Lx Ly

 Left Reaction = 23,469 lb Post: 6X8 DFL#1 (TIMBERS) O.K. 23,469 lb  
 Right Reaction = 23,469 lb Post: 6X8 DFL#1 (TIMBERS) O.K. 23,469 lb

DESCRIPTION: Roof Tributary = ft  $W_{DL}$  = 0.00 lb/ft  $C_D$  = 1.00  $C_{V/L}$  = #N/A  
 SIZE: Floor Tributary = ft  $W_{LL}$  = 0.00 lb/ft  $C_t$  = 1.00  $C_F$  = #N/A  
 GRADE: Wall Tributary = ft  $P_{DL}$  = 0.00 lb  $I_u$  = 1.00  
 LENGTH (ft) = 1.00 Additional Load = plf  $P_{LL}$  = 0.00 lb Reduction (L<sub>r</sub>) %  
 NOTES:  $d_{Point Load}$  = ft Reduction (L) %  
 Source: L/xxx Alternate  

Actual	Req'd			
S = #N/A in <sup>3</sup>	#N/A in <sup>3</sup>	#N/A	Max LL Deflection = #VALUE! #VALUE!	360 #1 #2 LL
A = #N/A in <sup>2</sup>	#N/A in <sup>2</sup>	#N/A	Max TL Deflection = #VALUE! #VALUE!	240 #1 #2 LL
I = #N/A in <sup>4</sup>	#N/A in <sup>4</sup>	#N/A	Add'l Load to Post	Source Lx Ly

 Left Reaction = 0 lb Post: (2)2X6 DFLSTUD O.K. lb  
 Right Reaction = 0 lb Post: (2)2X6 DFLSTUD O.K. lb

**L. R. NELSON CONSULTING ENGINEERS**

ADDED CALC

**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

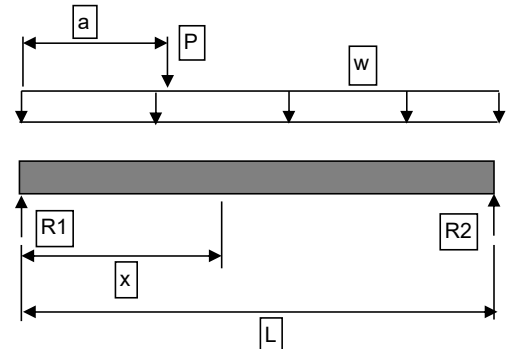
**PROJECT SUBJECT** SNRHA BENNET PLAZA  
BEAMS AND HEADERS

**SHEET OF** \_\_\_\_\_  
**DESIGNED** MS **CHECKED** KAB

(SIMPLY SUPPORTED BEAM)

DESCRIPTION:	GLB1	
SIZE:	5-1/8X33	
GRADE:	24F-V4	
LENGTH =	32.50	ft
$F_b =$	2,400	psi
$F_v =$	265	psi
$E =$	1,800,000	psi
$M_{MAX} =$	176,723	lb-ft
$V_{MAX} =$	26,869	lb
$R_1 =$	23,468.84	lb
$R_2 =$	26,868.96	lb
$S_{req} =$	883.62	IN^3
$A_{req} =$	152.09	IN^2
$\Delta_{LL,ALLOW} =$	1.08	in
$\Delta_{TL,ALLOW} =$	1.63	in

$C_D =$	1.00
$C_M =$	1.00
$C_t =$	1.00
$C_L =$	1.00
$C_r =$	1.00
$C_c =$	1.00
$C_f =$	1.00
$C_v =$	1.00
$C_F =$	1.00
$C_{fu} =$	1.00



$I_{actual} =$	15,348.09	
<b>CHECK:</b>		
$S_{actual} =$	930.19 in^3	> 883.62 in^3 <b>O.K.</b>
$A_{actual} =$	169.13 in^2	> 152.09 in^2 <b>O.K.</b>
$\Delta_{LL} =$	0.82 in	< 1.08 in <b>O.K.</b>
$\Delta_{TL} =$	1.24 in	< 1.63 in <b>O.K.</b>
1.5xDL Deflection =	<b>0.63</b> inches	
		LL => L/? = 474
		TL => L/? = 314

**UNIFORM LOADS**

$W_{DL} =$	0.00	lb/ft	$W_{LL} =$	0.00	lb/ft
$W_{DL} =$	0.00	lb/ft	$W_{LL} =$	0.00	lb/ft
$W_{DL} =$	0.00	lb/ft	$W_{LL} =$	0.00	lb/ft
$W_{DL} =$	0.00	lb/ft	$W_{LL} =$	0.00	lb/ft
$W_{DL} =$	0.00	lb/ft	$W_{LL} =$	0.00	lb/ft

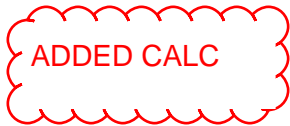
**POINT LOADS**

			a (ft)		a (ft)	
$P_{DL} =$	2,691.00	lb @	1.00	$P_{LL} =$	2,340.00	lb @ 1.00 GT13
$P_{DL} =$	4,410.21	lb @	26.30	$P_{LL} =$	8,721.59	lb @ 26.30
$P_{DL} =$	0.00	lb @	0.00	$P_{LL} =$	0.00	lb @ 0.00
$P_{DL} =$	0.00	lb @	0.00	$P_{LL} =$	0.00	lb @ 0.00
$P_{DL} =$	0.00	lb @	0.00	$P_{LL} =$	0.00	lb @ 0.00

**UNIFORM LOADS PARTIALLY DISTRIBUTED**

			a (ft)	b (ft)		a (ft)	b (ft)
$W_{DL} =$	330.00	lb/ft @	0.00	32.50	$W_{LL} =$	660.00	lb/ft @ 0.00 32.50
$W_{DL} =$	0.00	lb/ft @	0.00	0.00	$W_{LL} =$	495.00	lb/ft @ 0.00 0.00
$W_{DL} =$	0.00	lb/ft @	0.00	0.00	$W_{LL} =$	322.50	lb/ft @ 0.00 0.00
$W_{DL} =$	0.00	lb/ft @	0.00	0.00	$W_{LL} =$	0.00	lb/ft @ 0.00 0.00
$W_{DL} =$	0.00	lb/ft @	0.00	0.00	$W_{LL} =$	0.00	lb/ft @ 0.00 0.00

NOTE: b IS THE DISTANCE FROM THE START TO THE END OF THE UNIFORMLY DISTRIBUTED LOAD.



**Steel Beam** Project File: HSS COLUMN.ec6

LIC# : KW-06017750, Build:20.23.12.07 L. R. NELSON (c) ENERCALC INC 1983-2023

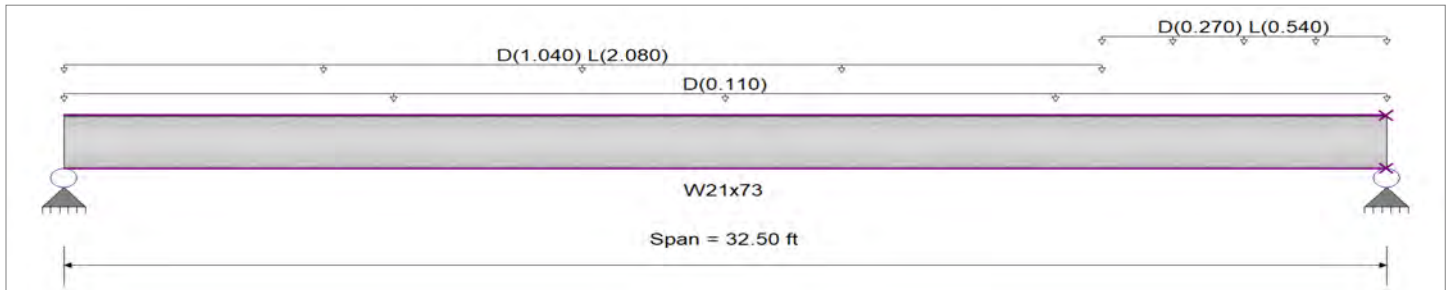
**DESCRIPTION:** FB4 BEAM

**CODE REFERENCES**

Calculations per AISC 360-16, IBC 2018, CBC 2019, ASCE 7-16  
 Load Combination Set : IBC 2021

**Material Properties**

Analysis Method : Allowable Strength Design	Fy : Steel Yield :	50.0 ksi
Beam Bracing : Beam is Fully Braced against lateral-torsional buckling	E: Modulus :	29,000.0 ksi
Bending Axis : Major Axis Bending		



**Applied Loads**

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added  
 Uniform Load : D = 0.010 ksf, Tributary Width = 11.0 ft, (WALL)

Uniform Load : D = 0.020, L = 0.040 ksf, Extent = 0.0 --> 25.50 ft, Tributary Width = 52.0 ft, (FLOOR LOAD)

Uniform Load : D = 0.020, L = 0.040 ksf, Extent = 25.50 --> 32.50 ft, Tributary Width = 13.50 ft

**DESIGN SUMMARY**

Design OK

<p>Maximum Bending Stress Ratio = <b>0.929</b> : 1          Section used for this span <b>W21x73</b>          Ma : Applied 398.632 k-ft          Mn / Omega : Allowable 429.142 k-ft          Load Combination +D+L          Span # where maximum occurs Span # 1</p> <p>Maximum Deflection          Max Downward Transient Deflection 1.040 in Ratio = <b>374</b> &gt;=360          Max Upward Transient Deflection 0 in Ratio = <b>0</b> &lt;360          Max Downward Total Deflection 1.620 in Ratio = <b>241</b> &gt;=180          Max Upward Total Deflection 0 in Ratio = <b>0</b> &lt;180</p>	<p>Maximum Shear Stress Ratio = <b>0.263</b> : 1          Section used for this span <b>W21x73</b>          Va : Applied 50.746 k          Vn/Omega : Allowable 192.920 k          Load Combination +D+L          Location of maximum on span 0.000 ft          Span # where maximum occurs Span # 1</p> <p>Span: 1 : L Only          Span: 1 : +D+L          n/a</p>
---	---

**Maximum Forces & Stresses for Load Combinations**

Load Combination	Segment Length	Span #	Max Stress Ratios		Summary of Moment Values					Summary of Shear Values				
			M	V	Mmax +	Mmax -	Ma Max	Mnx	Mnx/Omega	Cb	Rm	Va Max	Vnx/Vnx/Omega	
D Only														
Dsgn. L =	32.50 ft	1	0.332	0.094	142.55		142.55	716.67	429.14	1.00	1.00	18.11	289.38	192.92
+D+L														
Dsgn. L =	32.50 ft	1	0.929	0.263	398.63		398.63	716.67	429.14	1.00	1.00	50.75	289.38	192.92
+D+0.750L														
Dsgn. L =	32.50 ft	1	0.780	0.221	334.61		334.61	716.67	429.14	1.00	1.00	42.59	289.38	192.92
+0.60D														
Dsgn. L =	32.50 ft	1	0.199	0.056	85.53		85.53	716.67	429.14	1.00	1.00	10.86	289.38	192.92

**Overall Maximum Deflections**

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
+D+L	1	1.6203	16.157		0.0000	0.000

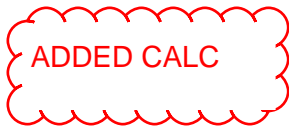
**Vertical Reactions**

Support notation : Far left is #'

Values in KIPS

Load Combination	Support 1	Support 2
Max Upward from all Load Conditions	50.746	38.059
Max Upward from Load Combinations	50.746	38.059





Project Title:  
Engineer:  
Project ID:  
Project Descr:

**Steel Beam**

Project File: HSS COLUMN.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION: FB4 BEAM**

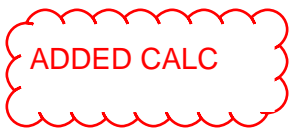
**Vertical Reactions**

Support notation : Far left is #

Values in KIPS

Load Combination	Support 1	Support 2
Max Upward from Load Cases	32.639	24.181
D Only	18.107	13.878
+D+L	50.746	38.059
+D+0.750L	42.586	32.014
+0.60D	10.864	8.327
L Only	32.639	24.181





**Steel Column** Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

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**DESCRIPTION: HSS COLUMN W/ AXIAL LOAD FROM W21X73 (FB4)**

**Extreme Reactions**

Item	Extreme Value	Axial Reaction	X-X Axis Reaction		k	Y-Y Axis Reaction		Mx - End Moments		k-ft	My - End Moments	
		@ Base	@ Base	@ Top		@ Base	@ Top	@ Base	@ Top		@ Base	@ Top
Reaction, Y-Y Axis Base	Maximum	18.432										
"	Minimum	18.432										
Reaction, X-X Axis Top	Maximum	18.432										
"	Minimum	18.432										
Reaction, Y-Y Axis Top	Maximum	18.432										
"	Minimum	18.432										
Moment, X-X Axis Base	Maximum	18.432										
"	Minimum	18.432										
Moment, Y-Y Axis Base	Maximum	18.432										
"	Minimum	18.432										
Moment, X-X Axis Top	Maximum	18.432										
"	Minimum	18.432										
Moment, Y-Y Axis Top	Maximum	18.432										
"	Minimum	18.432										

**Maximum Deflections for Load Combinations**

Load Combination	Max. Deflection in X dir	Distance	Max. Deflection in Y dir	Distance
D Only	0.0000 in	0.000 ft	0.000 in	0.000 ft
+D+Lr	0.0000 in	0.000 ft	0.000 in	0.000 ft
+D+0.750Lr	0.0000 in	0.000 ft	0.000 in	0.000 ft
+0.60D	0.0000 in	0.000 ft	0.000 in	0.000 ft
Lr Only	0.0000 in	0.000 ft	0.000 in	0.000 ft

**Steel Section Properties : HSS5x5x3/16**

Depth	=	5.000 in	I xx	=	12.60 in^4	J	=	19.900 in^4
Design Thick	=	0.174 in	S xx	=	5.03 in^3			
Width	=	5.000 in	R xx	=	1.960 in			
Wall Thick	=	0.187 in	Zx	=	5.890 in^3			
Area	=	3.280 in^2	I yy	=	12.600 in^4	C	=	8.080 in^3
Weight	=	11.970 plf	S yy	=	5.030 in^3			
			R yy	=	1.960 in			
Ycg	=	0.000 in						

ADDED CALC

Project Title:  
Engineer:  
Project ID:  
Project Descr:

**Steel Column**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

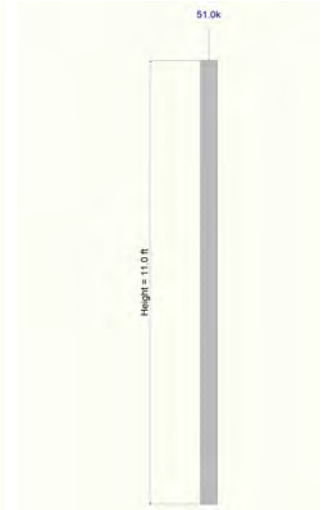
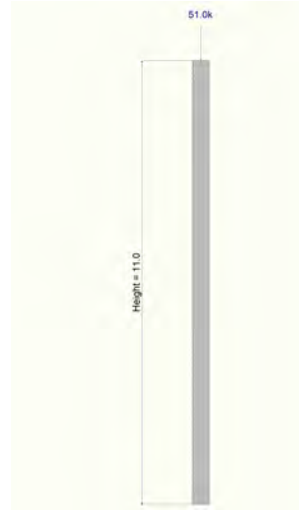
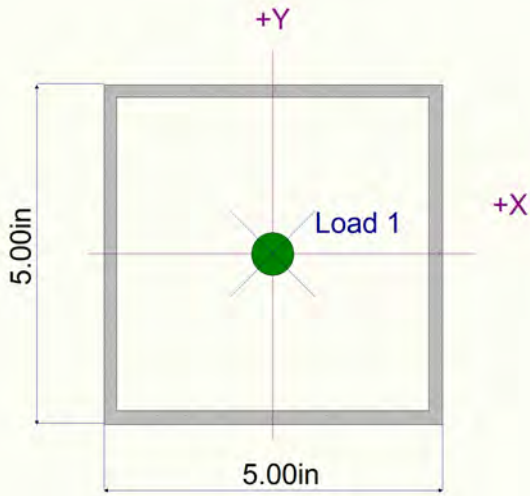
LIC# : KW-06017750, Build:20.23.12.07

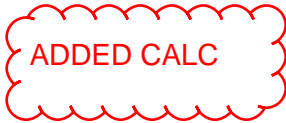
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**DESCRIPTION:** HSS COLUMN W/ AXIAL LOAD FROM W21X73 (FB4)

**Sketches**





**Steel Beam**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

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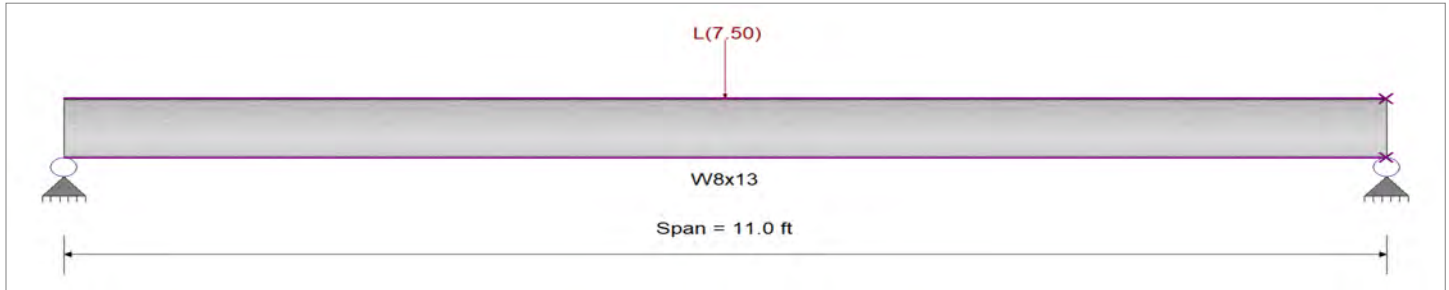
**DESCRIPTION:** W beam supporting the elevator

**CODE REFERENCES**

Calculations per AISC 360-16, IBC 2021, ASCE 7-16  
 Load Combination Set : IBC 2021

**Material Properties**

Analysis Method : Allowable Strength Design	Fy : Steel Yield :	50.0 ksi
Beam Bracing : Beam is Fully Braced against lateral-torsional buckling	E: Modulus :	29,000.0 ksi
Bending Axis : Major Axis Bending		



**Applied Loads**

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added  
 Load(s) for Span Number 1  
 Point Load : L = 7.50 k @ 5.50 ft, (min live load per elevator)

**DESIGN SUMMARY**

**Design OK**

<p><b>Maximum Bending Stress Ratio = 0.725 : 1</b></p> <p>Section used for this span: <b>W8x13</b></p> <p>Ma : Applied: 20.625 k-ft</p> <p>Mn / Omega : Allowable: 28.443 k-ft</p> <p>Load Combination: L Only</p> <p>Span # where maximum occurs: Span # 1</p> <p><b>Maximum Deflection</b></p> <p>Max Downward Transient Deflection: 0 in Ratio = 0 &lt;360 n/a</p> <p>Max Upward Transient Deflection: 0 in Ratio = 0 &lt;360 n/a</p> <p>Max Downward Total Deflection: 0.314 in Ratio = 420 &gt;=180 Span: 1 : L Only</p> <p>Max Upward Total Deflection: 0 in Ratio = 0 &lt;180 n/a</p>	<p><b>Maximum Shear Stress Ratio = 0.102 : 1</b></p> <p>Section used for this span: <b>W8x13</b></p> <p>Va : Applied: 3.750 k</p> <p>Vn/Omega : Allowable: 36.754 k</p> <p>Load Combination: L Only</p> <p>Location of maximum on span: 0.000 ft</p> <p>Span # where maximum occurs: Span # 1</p>
--	---

**Maximum Forces & Stresses for Load Combinations**

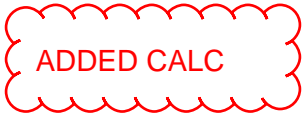
Load Combination	Segment Length	Span #	Max Stress Ratios		Summary of Moment Values					Summary of Shear Values				
			M	V	Mmax +	Mmax -	Ma Max	Mnx	Mnx/Omega	Cb	Rm	Va Max	Vnx/Vnx/Omega	
Dsgn. L = 11.00 ft		1		0.000				47.50	28.44	1.00	1.00	-0.00	55.13	36.75
L Only														
Dsgn. L = 11.00 ft +0.750L		1	0.725	0.102	20.63		20.63	47.50	28.44	1.00	1.00	3.75	55.13	36.75
Dsgn. L = 11.00 ft		1	0.544	0.077	15.47		15.47	47.50	28.44	1.00	1.00	2.81	55.13	36.75

**Overall Maximum Deflections**

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
L Only	1	0.3143	5.500		0.0000	0.000

**Vertical Reactions**

Load Combination	Support notation : Far left is #'		Values in KIPS	
	Support 1	Support 2		
Max Upward from all Load Conditions	3.750	3.750		
Max Upward from Load Combinations	2.813	2.813		
Max Upward from Load Cases	3.750	3.750		
L Only	3.750	3.750		
+0.750L	2.813	2.813		



**Masonry Column** Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07 L. R. NELSON (c) ENERCALC INC 1983-2023

**DESCRIPTION:** Masonry Column Where we have point load from W beam supporting the elevator

**Code References**

Calculations per TMS 402-16, IBC 2021, ASCE 7-16  
 Load Combinations Used : IBC 2021

**General Information**

<b>Material Properties</b>	<b>Column Data</b>	<b>Analysis Settings</b>	
F'm = 2,500.0 psi	Column width along X-X = 7.625 in	Analysis Method = <b>Allowable Design</b>	
Fr - Rupture = 75.0 psi	Column depth along Y-Y = 15.625 in	End Fixity Condition = Top Fixed, Bottom Pinned	
Em = f'm * = 900.0	Longitudinal Bar Size = # 4.0	Overall Column Height = 36.750 ft	
Column Density = 130.0 pcf	Bars per side at +Y & -Y = 2	Construction Type = Solid Grouted Hollow Concrete Mason	
Rebar Grade = Grade 60	Bars per side at +X & -X = 2	Tie Bar Size = # 4.0	
Fy - Yield = 60,000.0 psi	Cover from ties = 1.50 in	Tie Bar Spacing = 8.0 in	
Fs - Allowable = 32,000.0 psi	Actual Edge to Bar Center = 2.25 in		
E - Rebar = 29,000.0 ksi			

Brace condition for deflection (buckling) along columns :

X-X (width) axis : Fully braced against buckling ABOUT Y-Y Axis  
 Y-Y (depth) axis : Fully braced against buckling ABOUT X-X Axis

**Applied Loads**

Service loads entered. Load Factors will be applied for calculations.

Column self weight included : 3,952.74 lbs \* Dead Load Factor  
 AXIAL LOADS . . .  
 loads from the w beam supporting the elevator: Axial Load at 36.750 ft, L = 3.750 k  
 BENDING LOADS . . .

**DESIGN SUMMARY**

Bending Check Results

**PASS** Maximum Bending Stress Ratio = **0.084** : 1

Load Combination	+D+L
Location of max.above base	0.000 ft
At maximum location values are . . .	
Axial - Applied	7.703 k
Axial - Allowable	90.598 k
Moment - Applied	0.000 k-ft
Moment - Allowable	15.326 k-ft

Maximum SERVICE Load Reactions . .

Top along X-X	0.000 k
Bottom along X-X	0.000 k

Maximum SERVICE Load Deflections . . .

Along x-x 0.000 in at 0.000 ft above base  
 for load combination :

Compressive Strength 90.602 k ( TMS 402-16, Sec. 9.3.4.  
 $P_a = (0.25 f'm A_n + 0.65 A_{st} F_s) * [1 - (h/(140*r))^2]$

Check Column Ties (TMS 402-16, Sec 5.3.1.4)

Min. Tie Dia. = 1/4", # 4 bar provided  
 Max Tie Spacing = 7.63 in, Provided = 8.00 in

**PASS** Reinforcing Area Check ( TMS 402-16, Sec 5.3.1.3

As : Actual Reinforcement	0.800
Min: 0.0025 * An	0.298
Max: 0.04 * An	4.766

Dimensional Checks

Min. Side Dim. >= 8" ( TMS 402-16, Sec. 5.3.1.

**PASS** Governing  $K * L_u / Dimension <= ( TMS 402-16, Sec. 5.3.1.$

**Load Combination Results**

Load Combination	Maximum Bending Stress Ratios			Maximum Axial Load		Maximum Moments	
	Stress Ratio	Status	Location	Actual	Allow	Actual	Allow
D Only	0.04302	PASS	0.0 ft	3.953 k	90.598 k	0.0 k-ft	15.326 k-ft
+D+L	0.08383	PASS	0.0 ft	7.703 k	90.598 k	0.0 k-ft	15.326 k-ft
+D+0.750L	0.07363	PASS	0.0 ft	6.765 k	90.598 k	0.0 k-ft	15.326 k-ft
+0.60D	0.02581	PASS	0.0 ft	2.372 k	90.598 k	0.0 k-ft	15.326 k-ft

**Maximum Reactions**

Note: Only non-zero reactions are listed.

Load Combination	Y-Y Axis Reaction		Axial Reaction
	@ Base	@ Top	@ Base
D Only	k	k	3.953 k
+D+L	k	k	7.703 k
+D+0.750L	k	k	6.765 k
+0.60D	k	k	2.372 k

ADDED CALC

Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

## Masonry Column

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** Masonry Column Where we have point load from W beam supporting the elevator

### Maximum Reactions

Note: Only non-zero reactions are listed.

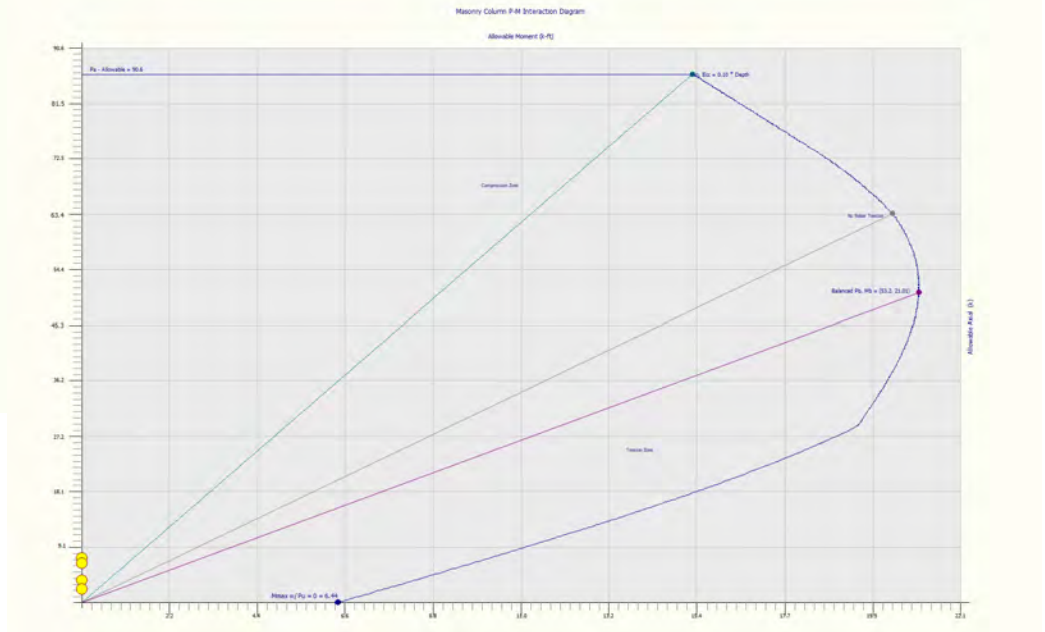
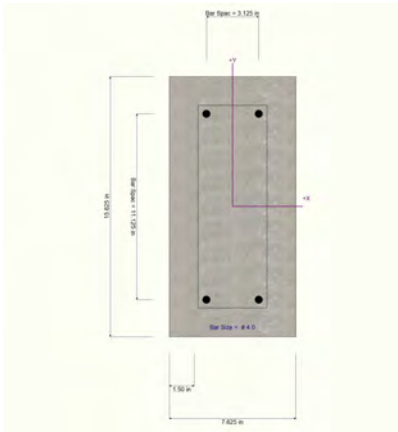
Load Combination	Y-Y Axis Reaction		Axial Reaction
	@ Base	@ Top	@ Base
L Only	k	k	3.750 k

### Maximum Deflections for Load Combinations

Load Combination	Max. Y-Y Deflection	Distance
D Only	0.0000 in	0.000 ft
+D+L	0.0000 in	0.000 ft
+D+0.750L	0.0000 in	0.000 ft
+0.60D	0.0000 in	0.000 ft
L Only	0.0000 in	0.000 ft

### Cross Section

### Interaction Diagram



L. R. NELSON CONSULTING ENGINEERS

JOB NO. 729-086-241

DATE: 04/25/24

PROJECT SNRHA BENNET PLAZA SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 SUBJECT Wall Anchorage DESIGNED MS CHECKED \_\_\_\_\_

$$F_p = 0.4 * S_{ds} * K_a * I_e * W_p \quad (12.11-1)$$

$$S_{ds} = 0.550$$

$$L_f = 46.0 \text{ ft} \quad K_a = 1.46$$

(Max  $K_a = 2.0$ )

$$I_e = 1.00$$

$$W_p = 58 \text{ psf}$$

$$F_p = 18.6 \text{ psf}$$

$$\text{Min } F_p = 0.2 * K_a * I_e * W_p \quad (12.11-2)$$

$$\text{Min } F_p = 16.9 \text{ psf}$$

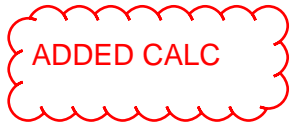
Space wall anchors at 4 ft o.c.

Tributary Wall Height = 13.75 ft

Wall Anchor Force = 1,434 lbs (LRFD) (Includes 1.4 factor for steel anchors)

= 1004 lbs (ASD)





### Masonry Slender Wall

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

#### DESCRIPTION: LATERAL LOAD FOR ELEVATOR WALL

#### Code References

Calculations per TMS 402-16, IBC 2018, CBC 2019, ASCE 7-16  
Load Combinations Used : IBC 2021

#### Calculations per TMS 402-16, IBC 2018, CBC 2019, ASCE 7-16

#### General Information

Construction Type : Grouted Hollow Concrete Masonry

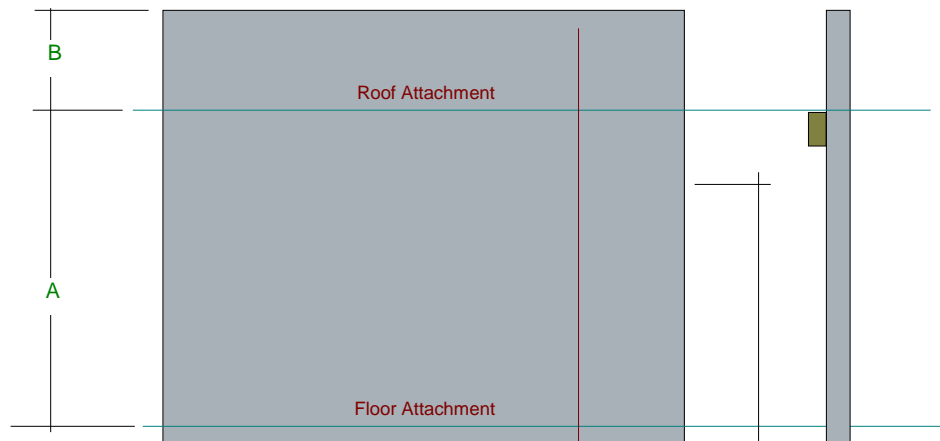
F'm	=	1.50 ksi	Nom. Wall Thickness	8 in	Temp Diff across thickness	=	deg F
Fy - Yield	=	60.0 ksi	Actual Thickness	7.625 in	Min Allow Out-of-plane Defl R <sub>a</sub>	=	0.0
Fr - Rupture	=	61.0 psi	Rebar "d" distance	2.813 in	Minimum Vertical Steel %	=	0.0020
Em = f'm *	=	900.0	Lower Level Rebar . . .				
Max % of ρ bal.	=	0.007133	Bar Size	# 4			
Grout Density	=	140 pcf	Bar Spacing	48 in			
Block Weight	=	Medium Weight					
Wall Weight	=	41.0 psf					

Wall is grouted at rebar cells only

#### One-Story Wall Dimensions

A Clear Height	=	15.0 ft
B Parapet height	=	ft

Wall Support Condition Top & Bottom Pinned



#### Lateral Loads

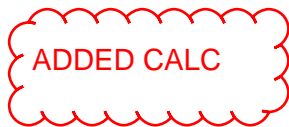
Wind Loads :

Full area WIND load psf

Seismic Loads :

Wall Weight Seismic Load Input Method : Direct entry of Lateral Wall Weight  
Seismic Wall Lateral Load 18.60 psf

F<sub>p</sub> 1.0 = 18.60 psf



Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

**Masonry Slender Wall**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION: LATERAL LOAD FOR ELEVATOR WALL**

**DESIGN SUMMARY**

Results reported for "Strip Width" of 12.0 in

Governing Load Combination . . .	Actual Values . . .	Allowable Values . . .
<b>PASS</b> Moment Capacity Check +0.90D+E	<b>Maximum Bending Stress Rat 0.5085</b>	
	Max Mu	0.5247 k-ft    Phi * Mn    1.032 k-ft
<b>PASS</b> Service Deflection Check E Only	Actual Defl. Ratio L/	1,291    Allowable Defl. Ratio    150.0
	Max. Deflection	0.1394 in
<b>PASS</b> Axial Load Check +1.20D+E	Max Pu / Ag	9.675 psi    Max. Allow. Defl.    1.20 in
	Location	7.250 ft    0.2 * f'm    300.0 psi
Reinforcing Limit Check	Actual As/bd	0.000866    Max Allow As/bd    0.007133
	<b>Maximum Reactions for Load Combination...</b>	
	Top Horizontal	E Only    0.1395 k
	Base Horizontal	E Only    0.1395 k
	Vertical Reaction	D Only    0.6150 k

**Design Maximum Combinations - Moments**

Results reported for "Strip Width" = 12 in.

Load Combination	Axial Load			Mc	Mu	Moment Values			0.6 * rho bal	Bar 'd'
	Pu	0.2*f'm*b*t	k-ft			Phi	Phi Mn	As		
	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.0000	0.0000	0.00
	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.0000	0.0000	0.00
+1.20D+E at 7.00 to 7.50	0.394	12.204	0.44	0.53	0.90	1.06	0.050	0.0009	0.0070	0.00
	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.0000	0.0000	0.00
+0.90D+E at 7.00 to 7.50	0.295	12.204	0.44	0.52	0.90	1.04	0.050	0.0009	0.0071	0.00

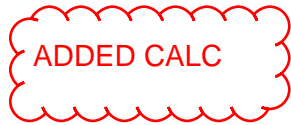
**Design Maximum Combinations - Deflections**

Results reported for "Strip Width" = 12 in.

Load Combination	Axial Load Pu	Moment Values		I gross	Stiffness		Deflections	
		Mc	Mactual		I cracked	I effective	Deflection	Defl. Ratio
	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.0
+D+0.70E at 7.00 to 7.50	0.328	0.44	0.37	331.10	21.15	331.100	0.033	5,424.8
+D+0.5250E at 7.00 to 7.50	0.328	0.44	0.27	331.10	21.15	331.100	0.025	7,233.1
	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.0
+0.60D+0.70E at 7.00 to 7.50	0.197	0.44	0.37	331.10	20.42	331.100	0.033	5,429.8
E Only at 7.50 to 8.00	0.000	0.44	0.52	331.10	19.32	26.124	0.139	1,291.2

**Reactions - Vertical & Horizontal**

Load Combination	Base Horizontal	Top Horizontal	Vertical @ Wall Base
D Only	0.0 k	0.00 k	0.615 k
+D+0.70E	0.1 k	0.10 k	0.615 k
+D+0.5250E	0.1 k	0.07 k	0.615 k
+0.60D	0.0 k	0.00 k	0.369 k
+0.60D+0.70E	0.1 k	0.10 k	0.369 k
E Only	0.1 k	0.14 k	0.000 k



Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

**Cantilevered Retaining Wall**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** ELEVATOR WALL W/ TOTAL VERTICAL LOADS (3'-6" Heel Width)

**Code Reference:**

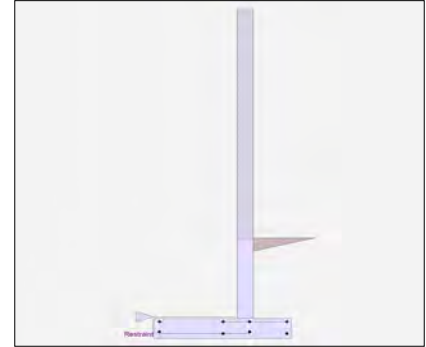
Calculations per IBC 2021 1807.3, ASCE 7-16

**Criteria**

Retained Height	=	4.00 ft
Wall height above soil	=	11.33 ft
Slope Behind Wall	=	0.00
Height of Soil over Toe	=	0.00 in
Water table above bottom of footing	=	0.0 ft

**Soil Data**

Allow Soil Bearing	=	2,500.0 psf
Equivalent Fluid Pressure Method		
Active Heel Pressure	=	40.0 psf/ft
Passive Pressure	=	250.0 psf/ft
Soil Density, Heel	=	125.00 pcf
Soil Density, Toe	=	125.00 pcf
Footing  Soil Friction	=	0.360
Soil height to ignore for passive pressure	=	55.00 in



**Surcharge Loads**

Surcharge Over Heel	=	0.0 psf
Used To Resist Sliding & Overturning		
Surcharge Over Toe	=	0.0 psf
Used for Sliding & Overturning		

**Axial Load Applied to Stem**

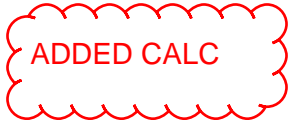
Axial Dead Load	=	3,536.0 lbs
Axial Live Load	=	1,630.0 lbs
Axial Load Eccentricity	=	0.0 in

**Lateral Load Applied to Stem**

Lateral Load	=	0.0 #/ft
...Height to Top	=	0.00 ft
...Height to Bottom	=	0.00 ft
Load Type	=	Wind (W) (Service Level)
Wind on Exposed Stem	=	0.0 psf (Strength Level)

**Adjacent Footing Load**

Adjacent Footing Load	=	0.0 lbs
Footing Width	=	0.00 ft
Eccentricity	=	0.00 in
Wall to Ftg CL Dist	=	0.00 ft
Footing Type	=	Spread Footing
Base Above/Below Soil at Back of Wall	=	0.0 ft
Poisson's Ratio	=	0.300



Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

**Cantilevered Retaining Wall**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION: ELEVATOR WALL W/ TOTAL VERTICAL LOADS (3'-6" Heel Width)**

**Design Summary**

**Wall Stability Ratios**

Overturning	=	25.79	OK
Slab Resists All Sliding !			
Global Stability	=	1.88	
Total Bearing Load	=	7,220 lbs	
...resultant ecc.	=	10.22 in	
Eccentricity within middle third			
Soil Pressure @ Toe	=	140 psf	OK
Soil Pressure @ Heel	=	2,372 psf	OK
Allowable	=	2,500 psf	
Soil Pressure Less Than Allowable			
ACI Factored @ Toe	=	195 psf	
ACI Factored @ Heel	=	3,320 psf	
Footing Shear @ Toe	=	21.2 psi	OK
Footing Shear @ Heel	=	10.8 psi	OK
Allowable	=	75.0 psi	

**Sliding Calcs**

Lateral Sliding Force	=	500.0 lbs
-----------------------	---	-----------

Vertical component of active lateral soil pressure IS NOT considered in the calculation of soil bearing

**Load Factors**

Building Code	
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.600
Seismic, E	1.000

**Stem Construction**

**Design Height Above Ftg**

ft =

Wall Material Above "Ht" =

Design Method =

Thickness =

Rebar Size =

Rebar Spacing =

Rebar Placed at =

**Design Data**

fb/FB + fa/Fa =

**Total Force @ Section**

Service Level lbs =

Strength Level lbs =

**Moment....Actual**

Service Level ft-# =

Strength Level ft-# =

Moment.....Allowable ft-# =

**Shear.....Actual**

Service Level psi =

Strength Level psi =

Shear.....Allowable psi =

Anet (Masonry) in2 =

Wall Weight psf =

Rebar Depth 'd' in =

**Masonry Data**

f'm psi =

Fs psi =

Solid Grouting =

Modular Ratio 'n' =

Equiv. Solid Thick. in =

Masonry Block Type =

Masonry Design Method =

**Concrete Data**

f'c psi =

Fy psi =

**2nd**

Stem OK

4.00

Masonry

ASD

8.00

# 4

48.00

Center

0.642

0.126

lbs =

lbs =

ft-# =

ft-# =

ft-# =

psi =

psi =

psi =

in2 =

psf =

in =

psi =

psi =

**Bottom**

Stem OK

0.00

Concrete

SD

8.00

# 4

12.00

Edge

512.0

682.7

5,412.6

6.8

41.6

91.50

0.0

100.0

3.81

6.25

750

32,000

Yes

42.96

7.63

ASD

2,500.0

60,000.0

SD SD



Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

**Cantilevered Retaining Wall**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION: ELEVATOR WALL W/ TOTAL VERTICAL LOADS (3'-6" Heel Width)**

**Concrete Stem Rebar Area Details**

Bottom Stem	<u>Vertical Reinforcing</u>	<u>Horizontal Reinforcing</u>	
As (based on applied moment) :	0.0256 in2/ft		
0.0018bh : 0.0018(12)(8) :	0.1728 in2/ft	Horizontal Reinforcing Options :	
	=====	<u>One layer of :</u> <u>Two layers of :</u>	
Required Area :	0.1728 in2/ft	#4@ 13.89 in	#4@ 27.78 in
Provided Area :	0.2 in2/ft	#5@ 21.53 in	#5@ 43.06 in
Maximum Area :	0.8467 in2/ft	#6@ 30.56 in	#6@ 61.11 in

**Footing Data**

Toe Width	=	3.50 ft
Heel Width	=	2.25
Total Footing Width	=	5.75
Footing Thickness	=	12.00 in
Key Width	=	0.00 in
Key Depth	=	0.00 in
Key Distance from Toe	=	0.00 ft
f'c =	2,500 psi	Fy = 60,000 psi
Footing Concrete Density	=	150.00 pcf
Min. As %	=	0.0018
Cover @ Top	2.00	@ Btm.= 3.00 in

**Footing Design Results**

		<u>Toe</u>	<u>Heel</u>	
Factored Pressure	=	195	3,320 psf	
Mu' : Upward	=	5,081	0 ft-#	
Mu' : Downward	=	1,103	978 ft-#	
Mu: Design	=	3,978 OK	978 ft-#	OK
phiMn	=	9,850	11,029 ft-#	
Actual 1-Way Shear	=	21.19	10.83 psi	
Allow 1-Way Shear	=	75.00	75.00 psi	
Toe Reinforcing	=	# 4 @ 9.26 in		
Heel Reinforcing	=	# 4 @ 9.25 in		
Key Reinforcing	=	None Spec'd		
Footing Torsion, Tu	=		0.00 ft-lbs	
Footing Allow. Torsion, phi Tu	=		0.00 ft-lbs	

**If torsion exceeds allowable, provide supplemental design for footing torsion.**

Other Acceptable Sizes & Spacings

Toe: #4@ 9.25 in, #5@ 14.35 in, #6@ 20.37 in, #7@ 27.77 in, #8@ 36.57 in, #9@ 46.29 in, #10@ 58.79 in

Heel: #4@ 9.25 in, #5@ 14.35 in, #6@ 20.37 in, #7@ 27.77 in, #8@ 36.57 in, #9@ 46.29 in, #10@ 58.79 in

Key: No key defined

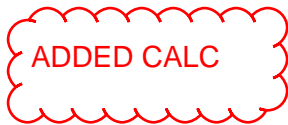
Min footing T&S reinf Area	1.49	in2
Min footing T&S reinf Area per foot	0.26	in2 /ft

If one layer of horizontal bars:

- #4@ 9.26 in
- #5@ 14.35 in
- #6@ 20.37 in

If two layers of horizontal bars:

- #4@ 18.52 in
- #5@ 28.70 in
- #6@ 40.74 in



**Cantilevered Retaining Wall**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION: ELEVATOR WALL W/ TOTAL VERTICAL LOADS (3'-6" Heel Width)**

**Summary of Overturning & Resisting Forces & Moments**

Item	.....OVERTURNING.....			.....RESISTING.....			
	Force lbs	Distance ft	Moment ft-#	Force lbs	Distance ft	Moment ft-#	
HL Act Pres (ab water tbl)	500.0	1.67	833.3	Soil Over HL (ab. water tbl)	791.7	4.96	3,925.3
HL Act Pres (be water tbl)				Soil Over HL (bel. water tbl)		4.96	3,925.3
Hydrostatic Force				Water Table			
Buoyant Force =				Sloped Soil Over Heel =			
Surcharge over Heel =				Surcharge Over Heel =			
Surcharge Over Toe =				Adjacent Footing Load =			
Adjacent Footing Load =				Axial Dead Load on Stem =	3,536.0	3.83	13,554.7
Added Lateral Load =				* Axial Live Load on Stem =	1,630.0	3.83	6,248.3
Load @ Stem Above Soil =				Soil Over Toe =			
				Surcharge Over Toe =			
				Stem Weight(s) =	400.0	3.83	1,533.3
				Earth @ Stem Transitions =			
<b>Total</b>	<b>= 500.0</b>	<b>O.T.M. =</b>	<b>833.3</b>	Footing Weight =	862.5	2.88	2,479.7
				Key Weight =			
				Vert. Component =			
<b>Resisting/Overturning Ratio</b>		<b>= 25.79</b>		<b>Total =</b>	<b>5,590.2 lbs</b>	<b>R.M.=</b>	<b>21,493.0</b>
Vertical Loads used for Soil Pressure =		7,220.2 lbs		* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.			

Vertical component of active lateral soil pressure IS NOT considered in the calculation of Sliding Resistance.

Vertical component of active lateral soil pressure IS NOT considered in the calculation of Overturning Resistance.

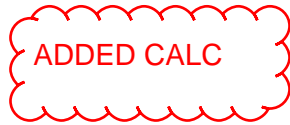
**Tilt**

**Horizontal Deflection at Top of Wall due to settlement of soil**

(Deflection due to wall bending not considered)

Soil Spring Reaction Modulus 250.0 pci  
 Horizontal Defl @ Top of Wall (approximate only) 0.000 in

The above calculation is not valid if the heel soil bearing pressure exceeds that of the toe, because the wall would then tend to rotate into the retained soil.



Project Title:  
Engineer:  
Project ID:  
Project Descr:

## Cantilevered Retaining Wall

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** ELEVATOR WALL W/ TOTAL VERTICAL LOADS (3'-6" Heel Width)

### Rebar Lap & Embedment Lengths Information

#### Stem Design Segment: 2nd

Stem Design Height: 4.00 ft above top of footing

Calculated Rebar Stress,  $f_s$  = 0.00 psi

Lap Splice length for #4 bar specified in this stem design segment (25.4.2.4a) = 20.00 in

Development length for #4 bar specified in this stem design segment = 12.00 in

---

#### Stem Design Segment: Bottom

Stem Design Height: 0.00 ft above top of footing

Lap Splice length for #4 bar specified in this stem design segment (25.4.2.4a) = 18.72 in

Development length for #4 bar specified in this stem design segment = 14.40 in

Hooked embedment length into footing for #4 bar specified in this stem design segment = 5.91 in

As Provided = 0.2000 in<sup>2</sup>/ft

As Required = 0.1728 in<sup>2</sup>/ft

ADDED CALC

Project Title:  
Engineer:  
Project ID:  
Project Descr:

**Cantilevered Retaining Wall**

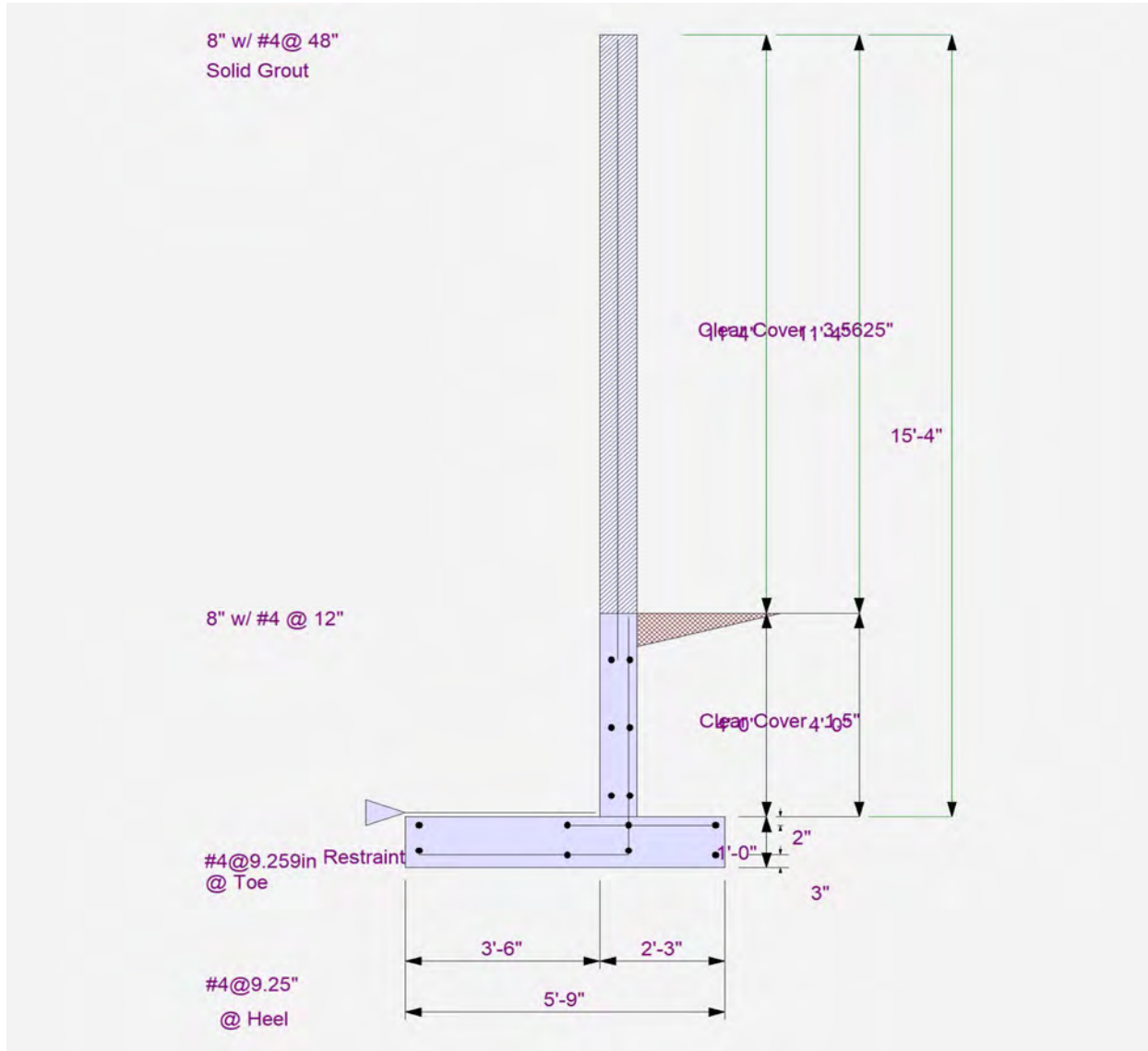
Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** ELEVATOR WALL W/ TOTAL VERTICAL LOADS (3'-6" Heel Width)





ADDED CALC

Project Title:  
Engineer:  
Project ID:  
Project Descr:

### Cantilevered Retaining Wall

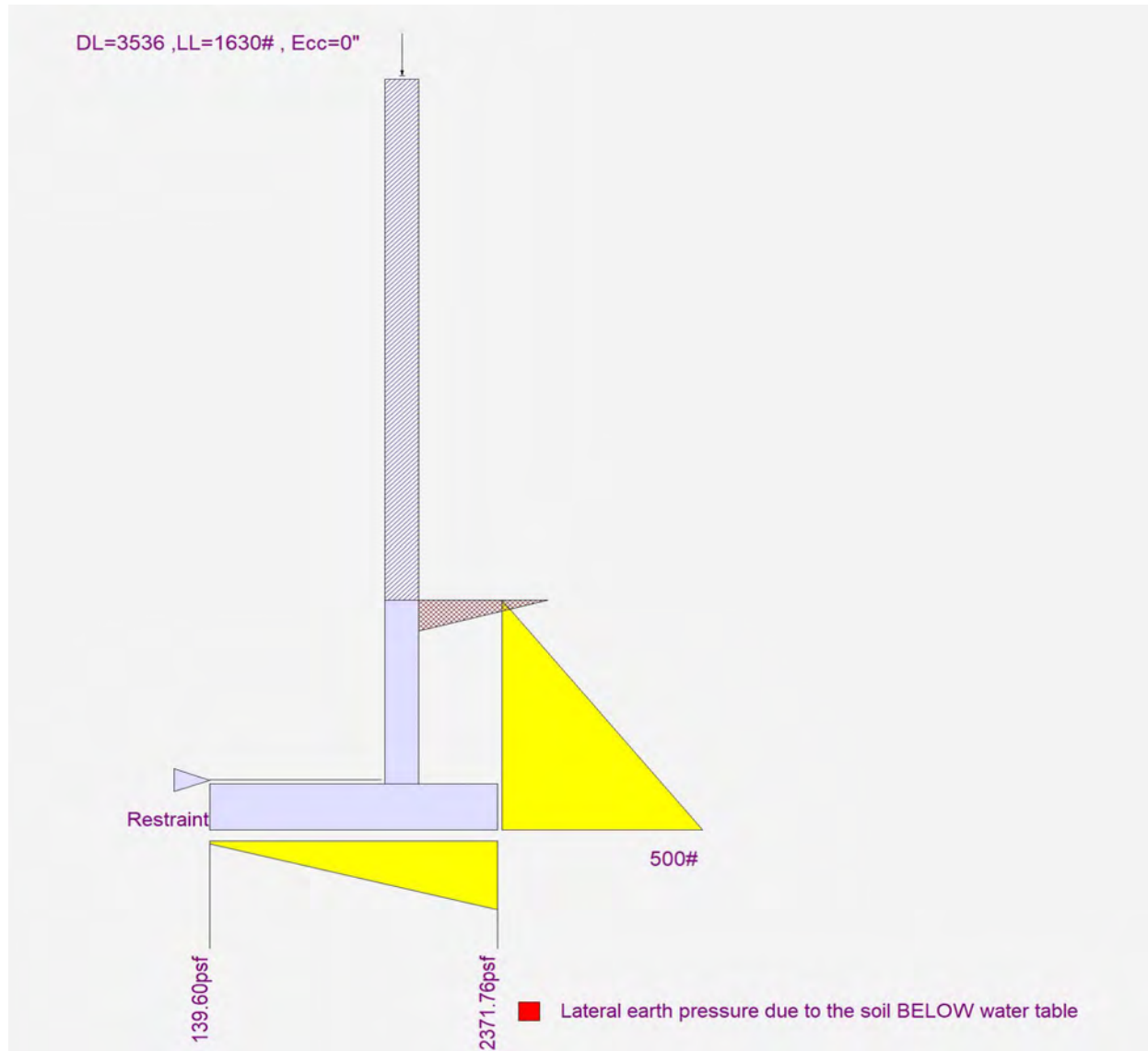
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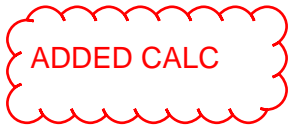
LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** ELEVATOR WALL W/ TOTAL VERTICAL LOADS (3'-6" Heel Width)





Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

**Cantilevered Retaining Wall**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** ELEVATOR WALL W/ TOTAL VERTICAL LOADS (5'-0" Heel Width)

**Code Reference:**

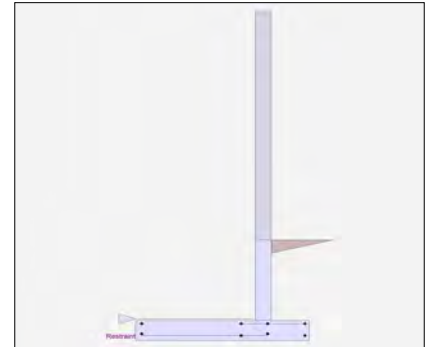
Calculations per IBC 2021 1807.3, ASCE 7-16

**Criteria**

Retained Height	=	4.00 ft
Wall height above soil	=	11.33 ft
Slope Behind Wall	=	0.00
Height of Soil over Toe	=	0.00 in
Water table above bottom of footing	=	0.0 ft

**Soil Data**

Allow Soil Bearing	=	2,500.0 psf
Equivalent Fluid Pressure Method		
Active Heel Pressure	=	40.0 psf/ft
Passive Pressure	=	250.0 psf/ft
Soil Density, Heel	=	125.00 pcf
Soil Density, Toe	=	125.00 pcf
Footing  Soil Friction	=	0.360
Soil height to ignore for passive pressure	=	55.00 in



**Surcharge Loads**

Surcharge Over Heel	=	0.0 psf
Used To Resist Sliding & Overturning		
Surcharge Over Toe	=	0.0 psf
Used for Sliding & Overturning		

**Axial Load Applied to Stem**

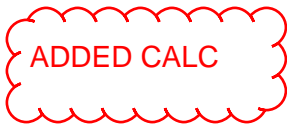
Axial Dead Load	=	3,536.0 lbs
Axial Live Load	=	1,630.0 lbs
Axial Load Eccentricity	=	0.0 in

**Lateral Load Applied to Stem**

Lateral Load	=	0.0 #/ft
...Height to Top	=	0.00 ft
...Height to Bottom	=	0.00 ft
Load Type	=	Wind (W) (Service Level)
Wind on Exposed Stem	=	0.0 psf (Strength Level)

**Adjacent Footing Load**

Adjacent Footing Load	=	0.0 lbs
Footing Width	=	0.00 ft
Eccentricity	=	0.00 in
Wall to Ftg CL Dist	=	0.00 ft
Footing Type	=	Spread Footing
Base Above/Below Soil at Back of Wall	=	0.0 ft
Poisson's Ratio	=	0.300



Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

**Cantilevered Retaining Wall**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION: ELEVATOR WALL W/ TOTAL VERTICAL LOADS (5'-0" Heel Width)**

**Design Summary**

**Wall Stability Ratios**

Overturning	=	36.06	OK
Slab Resists All Sliding !			
Global Stability	=	1.88	
Total Bearing Load	=	7,445 lbs	
...resultant ecc.	=	17.60 in	
Eccentricity outside middle third			
Soil Pressure @ Toe	=	0 psf	OK
Soil Pressure @ Heel	=	2,299 psf	OK
Allowable	=	2,500 psf	
Soil Pressure Less Than Allowable			
ACI Factored @ Toe	=	0 psf	
ACI Factored @ Heel	=	3,219 psf	
Footing Shear @ Toe	=	22.6 psi	OK
Footing Shear @ Heel	=	10.8 psi	OK
Allowable	=	75.0 psi	

**Sliding Calcs**

Lateral Sliding Force	=	500.0 lbs
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Vertical component of active lateral soil pressure IS NOT considered in the calculation of soil bearing

**Load Factors**

Building Code	
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.600
Seismic, E	1.000

**Stem Construction**

**Design Height Above Ftg**

Wall Material Above "Ht"	=	Masonry
Design Method	=	ASD
Thickness	=	8.00
Rebar Size	=	# 4
Rebar Spacing	=	48.00
Rebar Placed at	=	Center

**Design Data**

fb/FB + fa/Fa	=	0.642	0.126
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**Total Force @ Section**

Service Level	lbs =	
Strength Level	lbs =	512.0

**Moment....Actual**

Service Level	ft-# =	
Strength Level	ft-# =	682.7

Moment.....Allowable	ft-# =	463.8	5,412.6
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**Shear.....Actual**

Service Level	psi =	
Strength Level	psi =	6.8

Shear.....Allowable	psi =	73.5	41.6
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Anet (Masonry)	in2 =	91.50
----------------	-------	-------

Wall Weight	psf =	0.0	100.0
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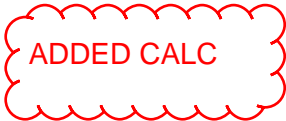
Rebar Depth 'd'	in =	3.81	6.25
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**Masonry Data**

f'm	psi =	750
Fs	psi =	32,000
Solid Grouting	=	Yes
Modular Ratio 'n'	=	42.96
Equiv. Solid Thick.	in =	7.63
Masonry Block Type	=	
Masonry Design Method	=	ASD

**Concrete Data**

f'c	psi =	2,500.0
Fy	psi =	60,000.0



Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

**Cantilevered Retaining Wall**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION: ELEVATOR WALL W/ TOTAL VERTICAL LOADS (5'-0" Heel Width)**

**Concrete Stem Rebar Area Details**

Bottom Stem	<u>Vertical Reinforcing</u>	<u>Horizontal Reinforcing</u>	
As (based on applied moment) :	0.0256 in2/ft		
0.0018bh : 0.0018(12)(8) :	0.1728 in2/ft	Horizontal Reinforcing Options :	
	=====	<u>One layer of :</u> <u>Two layers of :</u>	
Required Area :	0.1728 in2/ft	#4@ 13.89 in	#4@ 27.78 in
Provided Area :	0.2 in2/ft	#5@ 21.53 in	#5@ 43.06 in
Maximum Area :	0.8467 in2/ft	#6@ 30.56 in	#6@ 61.11 in

**Footing Data**

Toe Width	=	5.00 ft
Heel Width	=	2.25
Total Footing Width	=	7.25
Footing Thickness	=	12.00 in
Key Width	=	0.00 in
Key Depth	=	0.00 in
Key Distance from Toe	=	0.00 ft
f'c =	2,500 psi	Fy = 60,000 psi
Footing Concrete Density	=	150.00 pcf
Min. As %	=	0.0018
Cover @ Top	2.00	@ Btm.= 3.00 in

**Footing Design Results**

		<u>Toe</u>	<u>Heel</u>	
Factored Pressure	=	0	3,219 psf	
Mu' : Upward	=	6,251	0 ft-#	
Mu' : Downward	=	2,250	978 ft-#	
Mu: Design	=	4,001 OK	978 ft-#	OK
phiMn	=	9,850	11,029 ft-#	
Actual 1-Way Shear	=	22.57	10.83 psi	
Allow 1-Way Shear	=	75.00	75.00 psi	
Toe Reinforcing	=	# 4 @ 9.26 in		
Heel Reinforcing	=	# 4 @ 9.25 in		
Key Reinforcing	=	None Spec'd		
Footing Torsion, Tu	=		0.00 ft-lbs	
Footing Allow. Torsion, phi Tu	=		0.00 ft-lbs	

**If torsion exceeds allowable, provide supplemental design for footing torsion.**

Other Acceptable Sizes & Spacings

Toe: #4@ 9.25 in, #5@ 14.35 in, #6@ 20.37 in, #7@ 27.77 in, #8@ 36.57 in, #9@ 46.29 in, #10@ 58.79 in

Heel: #4@ 9.25 in, #5@ 14.35 in, #6@ 20.37 in, #7@ 27.77 in, #8@ 36.57 in, #9@ 46.29 in, #10@ 58.79 in

Key: No key defined

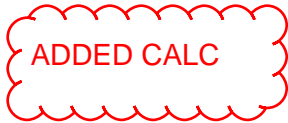
Min footing T&S reinf Area	1.88	in2
Min footing T&S reinf Area per foot	0.26	in2 /ft

If one layer of horizontal bars:

- #4@ 9.26 in
- #5@ 14.35 in
- #6@ 20.37 in

If two layers of horizontal bars:

- #4@ 18.52 in
- #5@ 28.70 in
- #6@ 40.74 in



## Cantilevered Retaining Wall

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

### DESCRIPTION: ELEVATOR WALL W/ TOTAL VERTICAL LOADS (5'-0" Heel Width)

#### Summary of Overturning & Resisting Forces & Moments

Item	.....OVERTURNING.....			.....RESISTING.....			
	Force lbs	Distance ft	Moment ft-#	Force lbs	Distance ft	Moment ft-#	
HL Act Pres (ab water tbl)	500.0	1.67	833.3	Soil Over HL (ab. water tbl)	791.7	6.46	5,112.8
HL Act Pres (be water tbl)				Soil Over HL (bel. water tbl)		6.46	5,112.8
Hydrostatic Force				Water Table			
Buoyant Force =				Sloped Soil Over Heel =			
Surcharge over Heel =				Surcharge Over Heel =			
Surcharge Over Toe =				Adjacent Footing Load =			
Adjacent Footing Load =				Axial Dead Load on Stem =	3,536.0	5.33	18,858.7
Added Lateral Load =				* Axial Live Load on Stem =	1,630.0	5.33	8,693.3
Load @ Stem Above Soil =				Soil Over Toe =			
				Surcharge Over Toe =			
				Stem Weight(s) =	400.0	5.33	2,133.3
				Earth @ Stem Transitions =			
<b>Total</b>	= 500.0	<b>O.T.M.</b>	= 833.3	Footing Weight =	1,087.5	3.63	3,942.2
				Key Weight =			
				Vert. Component =			
<b>Resisting/Overturning Ratio</b>		=	<b>36.06</b>	<b>Total =</b>	<b>5,815.2 lbs</b>	<b>R.M.=</b>	<b>30,047.0</b>
Vertical Loads used for Soil Pressure =		7,445.2 lbs		* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.			

Vertical component of active lateral soil pressure IS NOT considered in the calculation of Sliding Resistance.

Vertical component of active lateral soil pressure IS NOT considered in the calculation of Overturning Resistance.

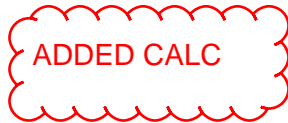
#### Tilt

##### Horizontal Deflection at Top of Wall due to settlement of soil

(Deflection due to wall bending not considered)

Soil Spring Reaction Modulus 250.0 pci  
 Horizontal Defl @ Top of Wall (approximate only) 0.000 in

The above calculation is not valid if the heel soil bearing pressure exceeds that of the toe, because the wall would then tend to rotate into the retained soil.



Project Title:  
Engineer:  
Project ID:  
Project Descr:

## Cantilevered Retaining Wall

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** ELEVATOR WALL W/ TOTAL VERTICAL LOADS (5'-0" Heel Width)

### Rebar Lap & Embedment Lengths Information

#### Stem Design Segment: 2nd

Stem Design Height: 4.00 ft above top of footing

Calculated Rebar Stress,  $f_s$  = 0.00 psi

Lap Splice length for #4 bar specified in this stem design segment (25.4.2.4a) = 20.00 in

Development length for #4 bar specified in this stem design segment = 12.00 in

---

#### Stem Design Segment: Bottom

Stem Design Height: 0.00 ft above top of footing

Lap Splice length for #4 bar specified in this stem design segment (25.4.2.4a) = 18.72 in

Development length for #4 bar specified in this stem design segment = 14.40 in

Hooked embedment length into footing for #4 bar specified in this stem design segment = 5.91 in

As Provided = 0.2000 in<sup>2</sup>/ft

As Required = 0.1728 in<sup>2</sup>/ft

ADDED CALC

Project Title:  
Engineer:  
Project ID:  
Project Descr:

**Cantilevered Retaining Wall**

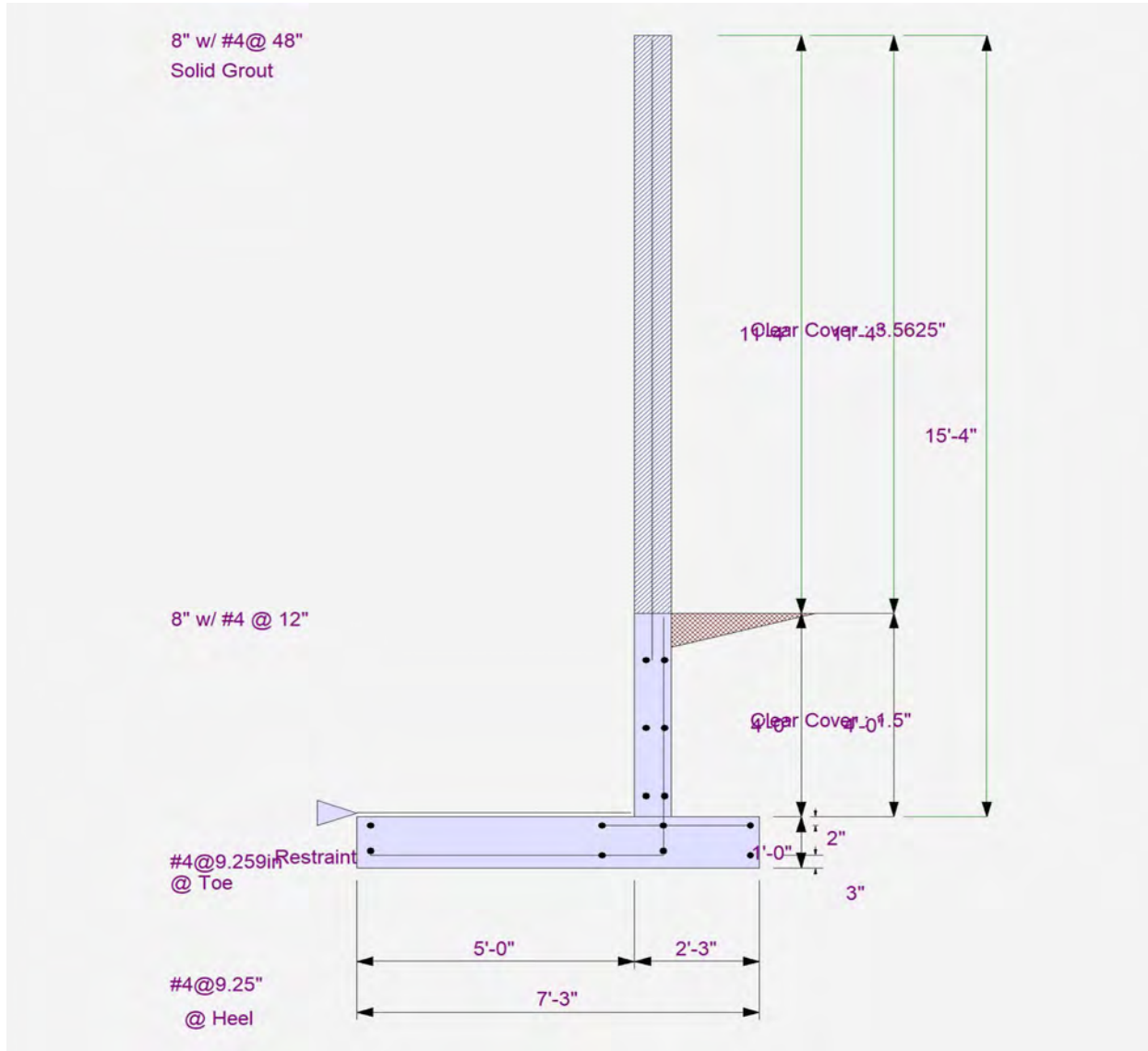
Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** ELEVATOR WALL W/ TOTAL VERTICAL LOADS (5'-0" Heel Width)



ADDED CALC

Project Title:  
Engineer:  
Project ID:  
Project Descr:

**Cantilevered Retaining Wall**

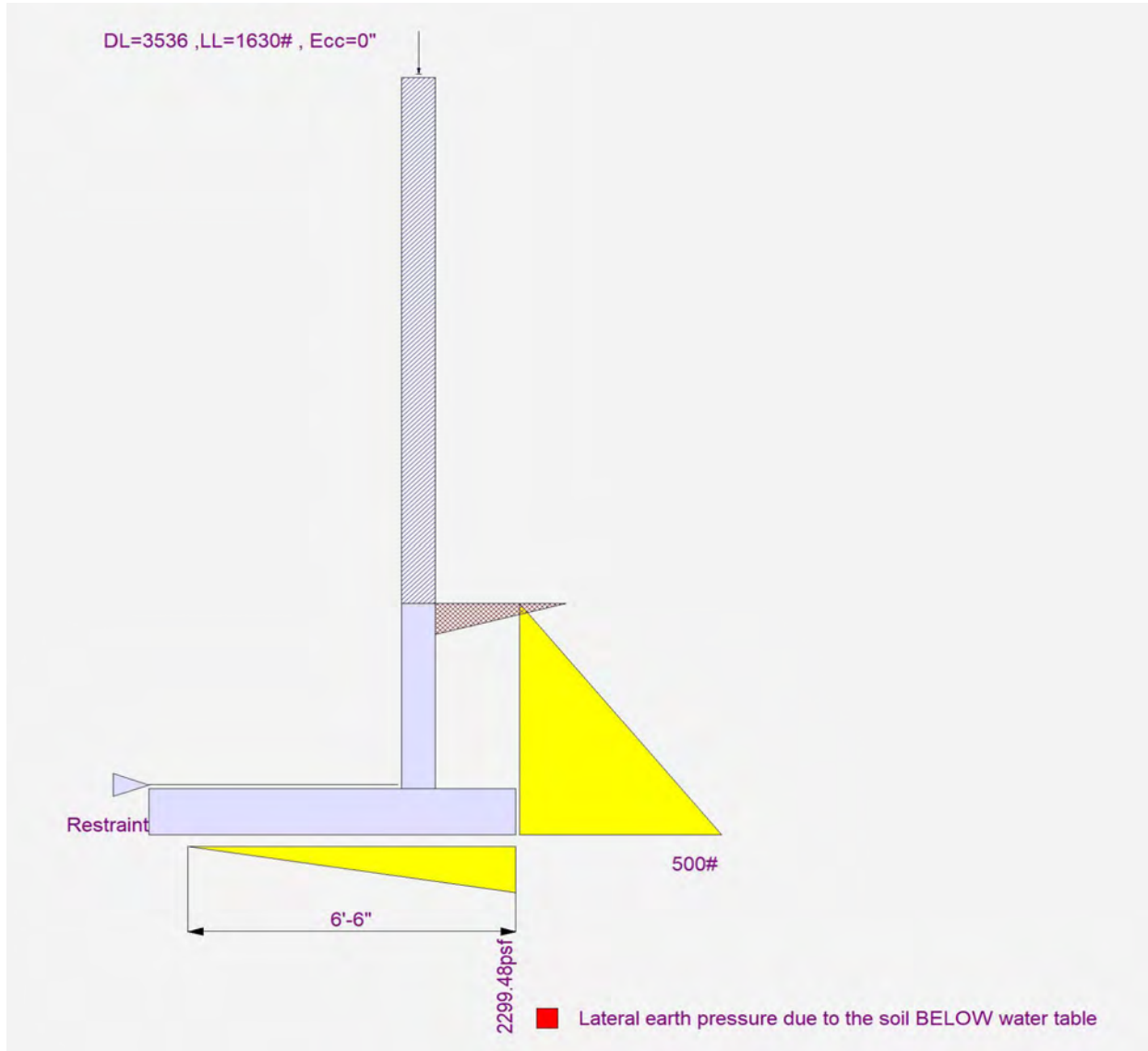
Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION:** ELEVATOR WALL W/ TOTAL VERTICAL LOADS (5'-0" Heel Width)





ADDED CALC

JOB NO. 729-086-241

DATE \_\_\_\_\_

PROJECT Marrion Bennett Plaza SHEET \_\_\_\_\_ OF \_\_\_\_\_

SUBJECT W Section Beam Seat design Plate DESIGNED \_\_\_\_\_ CHECKED \_\_\_\_\_

Max load = 3,750 Lb

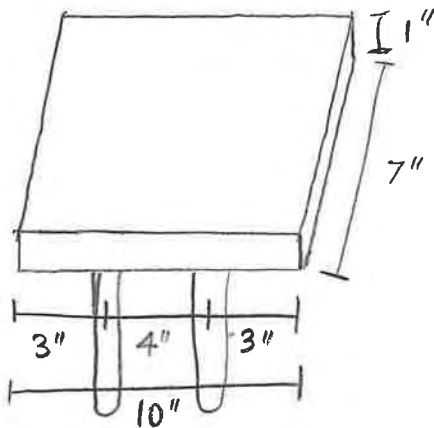
Area (assumed) = 10" x 1" = 10 in<sup>2</sup>

$$\sigma = \frac{P}{A} = \frac{3,750 \text{ Lb}}{10 \text{ in}^2} = 375 \text{ Psi}$$

$$M = \sigma \times 3" \times 7" \times 1" = 7,875 \text{ Lb-in}$$

$$S_x = \frac{bd^2}{6} = \frac{(7")(1")^2}{6} = 1.167 \text{ in}^3$$

$$\frac{M}{S_x} = \frac{7,875 \text{ Lb-in}}{1.167 \text{ in}^3} = 6,750 \text{ Psi} = 6.75 \text{ ksi} < 20 \text{ ksi} \therefore \text{Design is OK } \checkmark$$



ADDED CALC

Project Title:  
 Engineer:  
 Project ID:  
 Project Descr:

**Wood Beam**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

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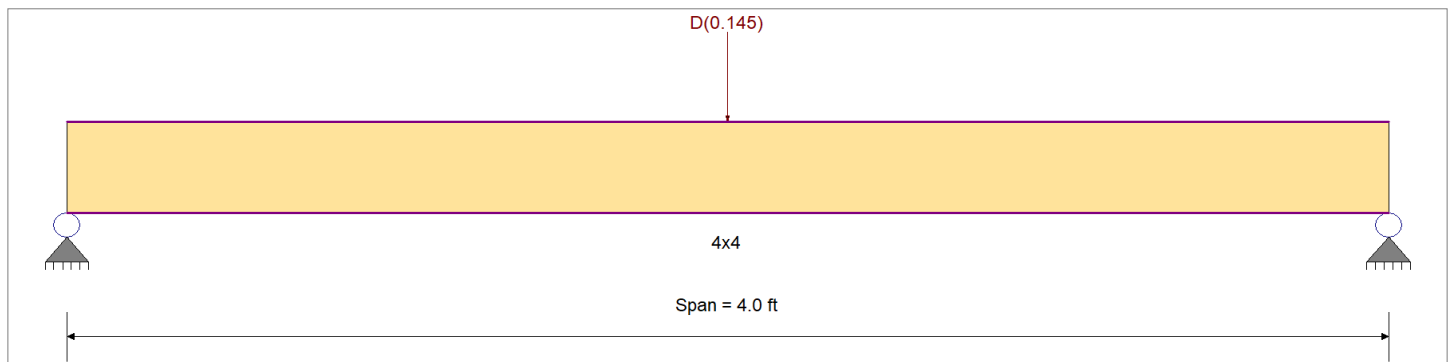
**DESCRIPTION: 4X4 BEAM W/ MECHANICAL FAN MOUNTING LOAD (WORST CASE ASSUMPTION)**

**CODE REFERENCES**

Calculations per NDS 2018, IBC 2021, ASCE 7-16  
 Load Combination Set : IBC 2021

**Material Properties**

Analysis Method : Allowable Stress Design	Fb +	850.0 psi	E : Modulus of Elasticity
Load Combination : IBC 2021	Fb -	850.0 psi	Ebend- xx
	Fc - Prll	1,400.0 psi	Eminbend - xx
Wood Species : Douglas Fir-Larch (North)	Fc - Perp	625.0 psi	
Wood Grade : No. 1/No. 2	Fv	180.0 psi	
	Ft	500.0 psi	Density
Beam Bracing : Beam is Fully Braced against lateral-torsional buckling			30.590pcf



**Applied Loads**

Service loads entered. Load Factors will be applied for calculations.

Beam self weight NOT internally calculated and added  
 Point Load : D = 0.1450 k @ 2.0 ft, (LOAD OF MECHANICAL FAN)

**DESIGN SUMMARY**

Design OK

<b>Maximum Bending Stress Ratio</b>	=	<b>0.212</b>	<b>1</b>	<b>Maximum Shear Stress Ratio</b>	=	<b>0.055</b>	<b>: 1</b>
Section used for this span		<b>4x4</b>		Section used for this span		<b>4x4</b>	
fb: Actual	=	243.50psi		fv: Actual	=	8.88 psi	
F'b	=	1,147.50psi		F'v	=	162.00 psi	
Load Combination		D Only		Load Combination		D Only	
Location of maximum on span	=	2.000ft		Location of maximum on span	=	0.000ft	
Span # where maximum occurs	=	Span # 1		Span # where maximum occurs	=	Span # 1	
<b>Maximum Deflection</b>							
Max Downward Transient Deflection		0 in	Ratio =	0 <360		n/a	
Max Upward Transient Deflection		0 in	Ratio =	0 <360		n/a	
Max Downward Total Deflection		0.017 in	Ratio =	2859 >=180		Span: 1 : D Only	
Max Upward Total Deflection		0 in	Ratio =	0 <180		n/a	

**Maximum Forces & Stresses for Load Combinations**

Load Combination	Segment Length	Span #	Max Stress Ratios										Moment Values			Shear Values		
			M	V	CD	CM	C <sub>t</sub>	CLx	C <sub>F</sub>	C <sub>fu</sub>	C <sub>i</sub>	C <sub>r</sub>	M	fb	F'b	V	fv	F'v
D Only	Length = 4.0 ft	1	0.212	0.055	0.90	1.00	1.00	1.00	1.500	1.00	1.00	1.00	0.15	243.5	1,147.5	0.07	8.9	162.0
+0.60D	Length = 4.0 ft	1	0.072	0.018	1.60	1.00	1.00	1.00	1.500	1.00	1.00	1.00	0.09	146.1	2,040.0	0.04	5.3	288.0

**Overall Maximum Deflections**

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
D Only	1	0.0168	2.000		0.0000	0.000

**Vertical Reactions**

Support notation : Far left is #1

Values in KIPS

Load Combination	Support 1	Support 2
Max Upward from all Load Conditions	0.073	0.073

ADDED CALC

Project Title:  
Engineer:  
Project ID:  
Project Descr:

**Wood Beam**

Project File: HSS COLUMN AND FB4 W BEAM.ec6

LIC# : KW-06017750, Build:20.23.12.07

L. R. NELSON

(c) ENERCALC INC 1983-2023

**DESCRIPTION: 4X4 BEAM W/ MECHANICAL FAN MOUNTING LOAD (WORST CASE ASSUMPTION)**

**Vertical Reactions**

Support notation : Far left is #1

Values in KIPS

Load Combination	Support 1	Support 2
Max Upward from Load Combinations	0.044	0.044
Max Upward from Load Cases	0.073	0.073
D Only	0.073	0.073
+0.60D	0.044	0.044

**Structural and General Fastening**

ADDED CALC

**Strong-Drive®**  
**SDS HEAVY-DUTY CONNECTOR Screw (cont.)**

SDS Heavy-Duty Connector Screw — Reference Allowable Withdrawal Loads — Douglas Fir-Larch, Southern Pine, Spruce-Pine-Fir and Hem-Fir Lumber

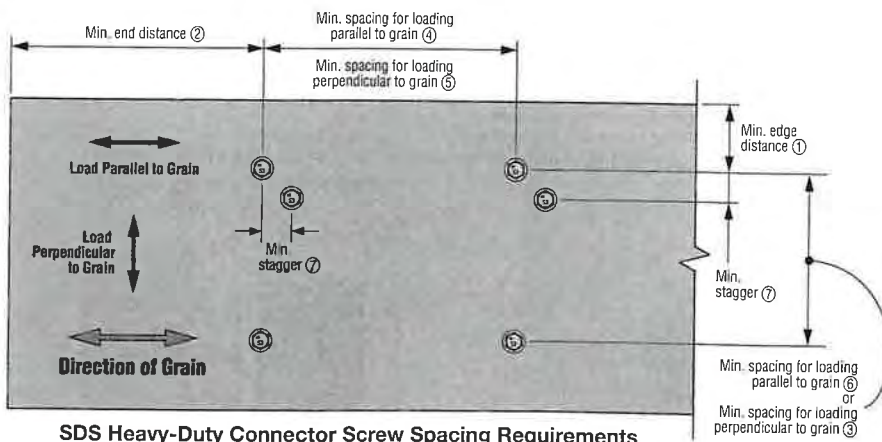
Wood and Engineered Wood Fastening

Model No.	Length (in.)	Thread Length (in.)	Reference Allowable Withdrawal Loads, W (lb./in.)		Max. Reference Allowable Withdrawal Loads, W <sub>max</sub> (lb.)	
			DFL and SP Main Member	HF and SPF Main Member	DFL and SP Main Member	HF and SPF Main Member
SDS25112	1.5	1	172	121	170	120
SDS25200	2	1.25	172	121	215	150
SDS25212	2.5	1.5	172	121	255	180
SDS25300	3	2	172	121	345	240
SDS25312	3.5	2.25	172	121	345	240
SDS25412	4.5	2.75	172	121	345	240
SDS25500	5	2.75	172	121	345	240
SDS25600	6	3.25	172	121	345	240
SDS25800	8	3.25	172	121	345	240

1. The tabulated reference withdrawal design value, W, is in pounds per inch of the thread penetration into the side grain of the main member.
2. The tabulated reference withdrawal design value, W<sub>max</sub>, is in pounds where the entire thread length must penetrate into the side grain of the main member.
3. The tabulated reference withdrawal design values, W and W<sub>max</sub>, are shown at a C<sub>D</sub> = 1.6. For end-grain withdrawal, 0.65. Tabulated values must be multiplied by all applicable adjustment factors from the NDS as referenced in the IBC or IRC.
4. Embedded thread length is that portion held in the main member including the screw tip.
5. Values are based on the lesser of withdrawal from the main member or pull-through of a 1 1/2" side member.
6. For in-service moisture content greater than 19%, use C<sub>M</sub> = 0.7.

Assumed withdrawal loads on each Connector = 125LB

∴ SDS 25300 show be okay for ladder anchorage.



SDS Heavy-Duty Connector Screw Spacing Requirements

SDS Heavy-Duty Connector Screw Spacing Requirements

Condition	Direction of Load to Grain	ID	Minimum Distance or Spacing (in.)
Edge Distance	Perpendicular	①	1 1/2
	Parallel	①	1
End Distance	Perpendicular	②	4
	Parallel	②	3
Spacing Between Fasteners in a Row	Perpendicular	③	3
	Parallel	④	3
Spacing Between Rows of Fasteners	Perpendicular	⑤	3
	Parallel	⑥	3
Spacing Between Staggered Rows	Perpendicular or Parallel	⑦	1 1/2

1. For axial loading only, use the following minimum dimensions: end distance = 3 1/4", edge distance = 1 3/8", spacing parallel to grain = 2 1/4", spacing perpendicular to grain = 1 3/8".

# L. R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241  
**DATE:** \_\_\_\_\_

**PROJECT:** SNRHA BENNET PLAZA      **SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_  
**DESCRIPTION:** \_\_\_\_\_      **DESIGNED** MS      **CHECKED** KAB

## STUD WALL DESIGN - ASCE 7 WIND PROVISIONS (BASIC LOAD COMBINATIONS)

Roof Dead Load =	23.00 psf
Floor Dead Load =	20.00 psf
Wall/Misc. Dead Load =	16.00 psf

Roof Live Load =	20.00 psf
Floor Live Load =	40.00 psf
Roof Snow Load =	0.00 psf

Wall Height =	12.00 ft
Roof Tributary Width =	12.00 ft
Floor Tributary Width =	0.00 ft
Wall/Misc. DL Width =	4.00 ft

INTERACTION RESULTS FOR POSSIBLE CONTROLLING LOAD COMBINATIONS		
DL + FLL =	0.113	OK
DL + RLL =	0.182	OK
DL + SL =	0.113	OK
DL + 0.6*WIND =	0.548	OK
DL + 0.75*(FLL + RLL) =	0.182	OK
DL + 0.75*(FLL + SL) =	0.107	OK
DL + 0.75*(0.6*WIND + FLL + RLL) =	0.450	OK
DL + 0.75*(0.6*WIND + FLL + SL) =	0.414	OK
DEFLECTION L/? =	581.3	O.K.**

Wind Zone (Interior or End) = End

Stud Size =	<u>2X6</u>
Stud Spacing =	<u>16 in o.c.</u>
Lumber Grade =	<u>DFL STUD</u>

\*\* Deflection Determined Using 0.42 x Wind Load

Wind Speed =	<u>100 mph</u>
Exposure =	<u>C</u>
Mean Roof Height, h =	<u>22.00 ft</u>
Topo. Factor, K <sub>zt</sub> =	<u>1.00</u>
Wind Dir. Factor, K <sub>d</sub> =	<u>0.85</u>
GCpi +/- =	<u>0.18</u>

Exterior Finish = Brittle (L/240 Deflection Ratio)

F <sub>b</sub> =	<u>700 psi</u>
F <sub>c</sub> =	<u>850 psi</u>
E =	<u>1,400,000 psi</u>

Wall Uniform Loads	
Dead Load, DL =	340 lb/ft
Roof Live Load, RLL =	240 lb/ft
Floor Live Load, FLL =	0 lb/ft
Snow Load, SL =	0 lb/ft

Factors	
C <sub>F</sub> (Bending) =	<u>1.00</u>
C <sub>F</sub> (Compression) =	<u>1.00</u>
C <sub>t</sub> =	<u>1.15</u>
C <sub>D</sub> (DL) =	<u>1.00</u>
C <sub>D</sub> (FLL) =	<u>1.00</u>
C <sub>D</sub> (RLL) =	<u>1.25</u>
C <sub>D</sub> (SL) =	<u>1.00</u>
C <sub>D</sub> (Wind) =	<u>1.60</u>

Ultimate Design Pressure =	27.61 psf
Ultimate Max. Deflection =	0.59 in
Max. Deflection x 0.42 =	0.25 in
Max. Deflection x 0.60 =	N/A
L/d =	26.18 < 50 (OK)

Check Bearing Stress on Wall Plate	
Wall Plate Lumber Grade =	<u>DFL#2</u>
Max. Stud Reaction on Wall Plate =	773 lbs
Bearing Stress on Wall Plate =	93.74 psi (OK)
Allow. Bearing Stress on Wall Plate =	<u>625 psi</u>

Ultimate Wall Pressures (psf)				
Zone	Interior Zone (Zone 4)		(Zone 5)	
	Positive	Negative	Positive	Negative
Pressure (psf)	21.78 psf	-23.83 psf	21.78 psf	-27.61 psf
qh (psf)	20.46 psf	20.46 psf	20.46 psf	20.46 psf
GCp	0.885	-0.985	0.885	-1.169
Gcpi	0.180	-0.180	0.180	-0.180

Studs Part of Fire Assembly?  No

Stud Section Properties	
Area =	<u>8.25</u> in <sup>2</sup>
Section Modulus =	<u>7.56</u> in <sup>3</sup>
Moment of Inertia =	<u>20.80</u> in <sup>4</sup>
Depth =	<u>5.50 in</u>
Width =	<u>1.50 in</u>

Axial Stresses				
	DL	FLL	RLL	SL
f <sub>a</sub> =	54.95 psi	0.00 psi	38.79 psi	0.00 psi

Maximum Bending Moment & Stress	
M =	663 ft-lb
f <sub>b</sub> =	1051.32 psi

Allowable Bending Stress	
F <sub>b</sub> =	1,288 psi

Allowable Axial Stresses					
c =	<u>0.80</u>	Overwrite c = _____			
(L/d) <sup>2</sup> =	685.49	Overwrite COV <sub>E</sub> = _____			
COV <sub>E</sub> =	<u>0.25</u>				
E <sub>min</sub> ' =	511,432 psi				
F <sub>cE</sub> =	613.28				
	DL	FLL	RLL	SL	WIND
F <sub>c</sub> * =	850.00	850.00	1,062.50	850.00	1,360.00
F <sub>cE</sub> /F <sub>c</sub> * =	0.722	0.722	0.577	0.722	0.451
C <sub>P</sub> =	0.570	0.570	0.486	0.570	0.398
F <sub>C</sub> =	484.68	484.68	515.90	484.68	541.60

Note: All wall studs in this calculator are braced in the weak direction.

L. R. NELSON CONSULTING ENGINEERS

REVISED

JOB NO. 620-011-181  
 DATE: \_\_\_\_\_

PROJECT SUBJECT Shade Canopy

SHEET DESIGNED KAB

OF CHECKED KAB

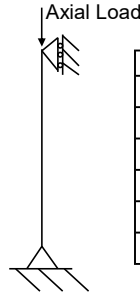
**WOOD COLUMN (Loaded in Axial Compression)**

**Description:**

Member Type =	Dimension Lumber
Member Grade =	DFL#1
Column Size =	4X4
# of Plies =	1

$F_c$ (psi) =	1,500
$E_x$ (psi) =	1,700,000
$E_y$ (psi) =	1,700,000

Adjustment Factors	
$C_D$ =	1.25
$C_M$ =	1.00
$C_t$ =	1.00
$C_F$ =	1.15
$C_P$ =	0.234
$K_f$ =	0.60 (SEE NOTE 3 BELOW)



**COMPRESSION:**

Allow. Axial Load = **6,189 lbs**

Area (in <sup>2</sup> ) =	12.25
$I_x$ (in <sup>4</sup> ) =	12.51
$S_x$ (in <sup>3</sup> ) =	7.15

$I_y$ (in <sup>4</sup> ) =	12.51
$S_y$ (in <sup>3</sup> ) =	7.15

$L_x$ (ft) =	9.00 *
$L_y$ (ft) =	9.00
$L_e/d$ =	30.86
$((L_e/d))^2$ =	952

$d_x$ (in) =	3.5
$d_y$ (in) =	3.5

$F_c^*$ (psi) =	505 psi
$P_{ALLOWABLE}$ =	6,189 lbs
$P_{ALLOWABLE} = (F_c^*)(Area)$	

\*CONTROLS

**TENSION:**

Allow. Axial Load = **11,886 lbs**

$F_T^*$ (psi) =	970 psi
$F_T$ (psi) =	675 psi
$P_{ALLOWABLE}$ =	11,886 lbs
Area (in <sup>2</sup> ) =	12.25

Calculate  $C_P$ :

$$C_P = \frac{(1+F_{cE}/F_c^*)/2c - \sqrt{((1+F_{cE}/F_c^*)/2c)^2 - ((F_{cE}/F_c^*)/c)^{0.5}}}{1}$$

$$F_{cE} \text{ (psi)} = 0.822 * E_{min}' / (L_e/d)^2 = 536.13$$

$$COV_E = 0.25 \quad \text{(SEE NOTE 1 BELOW)}$$

$$E' = E_{xy}(CM)(C_t)(C_T) = 1,700,000 \text{ psi}$$

$$E_{min}' = 1.03E'(1-1.645COV_E)/1.66 = 621,025 \text{ psi}$$

$$F_c^* \text{ (psi)} = F_c(C_D)(C_M)(C_t)(C_F) = 2,156$$

$$c = 0.8 \quad \text{(SEE NOTE 2 BELOW)}$$

$$C_T = 1$$

NOTES:

- $COV_E$  =  
 0.25 for Visually Graded Sawn Lumber.  
 0.15 for Machine Rated Lumber.  
 0.11 for Machine Stress Rated Lumber.  
 0.10 for Glued Laminated Timber.
- 0.8 for Sawn Lumber and 0.9 for Glulam/Mfr Lumber.
- For use with built-up columns.  $K_f$  factor applies only to the column slenderness ratio for the axis parallel to the weak axis of individual laminations. Therefore, the column slenderness ratio parallel to the strong axis of the individual laminations does not require the  $K_f$  reduction.  
 $K_f = 0.6$  for built-up nailed columns  
 $K_f = 0.75$  for built-up bolted columns  
 $K_f = 1.0$  for solid columns

**L.R. NELSON CONSULTING ENGINEERS**

**JOB NO.** 729-086-241

**DATE:** April 25, 2024

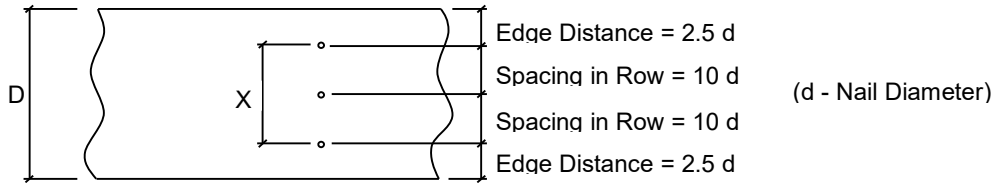
**PROJECT** SNRHA BENNET PLAZA

**SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_

**SUBJECT** Wood Ledger

**DESIGNED** MS **CHECKED** KAB

Minimum Nail Spacing - Per NDS



For 16d Sinkers:  $d = 0.148''$

**2x6** D = 5.5 inches

$X = 5.5'' - 2(2.5 \times 0.148'') = 5.5'' - 0.74'' = 4.76''$   
 $4.76 / 1.50 = 3.2$  Spaces      2 Spaces @ 1.5" = 3.00"

Use (3) Nails Maximum

**2x8** D = 7.25 inches

$X = 7.25'' - 0.74'' = 6.51''$       4 Spaces @ 1.5" = 6.00"

Use (5) Nails Maximum

**2x10** D = 9.25 inches

$X = 9.25'' - 0.74'' = 8.51''$       5 Spaces @ 1.5" = 7.50"

Use (6) Nails Maximum

**2x12** D = 11.25 inches

$X = 11.25'' - 0.74'' = 10.51''$       7 Spaces @ 1.5" = 10.50"

Use (8) Nails Maximum

↑  
Per Row  
2 or 3 rows possible  
where ledger nails to  
end of 4x floor truss

DFL No. 2 Ledger to DFL Studs  
Allowable Load for 1 1/2 Side Plate = 118 #/Nail

DFL No. 2 Ledger to SPF Studs or SPF Trusses  
Allowable Load for 1 1/2 Side Plate = 100 #/Nail )

**DFL VALUES**

Capacity of 16d Sinkers @ 118 #/nail

	100% (Floor)	125% (Roof)
3 x 118 =	354 #	443 #
4 x 118 =	472 #	590 #
5 x 118 =	590 #	738 #
6 x 118 =	708 #	885 #
7 x 118 =	826 #	1033 #
8 x 118 =	944 #	1180 #

**SPF VALUES**

Capacity of 16d Sinkers @ 100 #/nail

	100% (Floor)	125% (Roof)
3 x 100 =	300 #	375 #
4 x 100 =	400 #	500 #
5 x 100 =	500 #	625 #
6 x 100 =	600 #	750 #
7 x 100 =	700 #	875 #
8 x 100 =	800 #	1000 #

## L.R. NELSON CONSULTING ENGINEERS

**JOB NO.** 729-086-241

**DATE:** \_\_\_\_\_

**PROJECT** SNRHA BENNET PLAZA **SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_

**SUBJECT** Wood Ledger **DESIGNED** MS **CHECKED** KAB

Ledgers Supporting Roof Loads		Total Allowable Roof Load	
		DFL Frmg = 70psf	SPF Frmg = 50 psf
Supported Span	Member	Nailing	Min Hanger UNO
8ft or Less	2x6	(3) 16d at 16" o.c.	LUS24/JUS24 at 16" oc
	2x8	(5) 16d at 24" o.c.	LUS24/JUS24 at 24" oc
16ft or Less	2x8	(5) 16d at 16" o.c.	LUS26/JUS26 at 16" oc
	2x12	(8) 16d at 24" o.c.	LUS28/JUS28 at 24" oc
24ft or Less	2x12	(8) 16d at 16" o.c.	LUS28/JUS28 at 16" oc
	2x12	(2) columns of (6) 16d at 24" o.c.	HUS28/HUS28 at 24" oc

Ledgers Supporting Floor Loads		Total Allowable Floor Load	
		DFL Frmg = 89psf	SPF Frmg = 70 psf
Supported Span	Member	Nailing	Min Hanger UNO
10ft or Less	2x8	(5) 16d at 16" o.c.	LUS26/JUS26 at 16" oc
	2x10	(2) columns of (6) 16d at 24" o.c.	LUS26/JUS26 at 24" oc
20ft or Less	2x10	(2) columns of (6) 16d at 16" o.c.	LUS28/JUS28 at 16" oc
	2x12	(2) columns of (8) 16d at 24" o.c.	HUS210/HUS210 at 24" oc

**NOTES:**

1. Minimum hangers are listed by manufacturer as Simpson Strong-tie/USP
2. Listed hangers are minimum hangers where not otherwise noted on the structural drawings
3. Two columns of nails require min. 3", (2)2x or 4x2 trusses for supporting members receiving nailing



## L.R. NELSON CONSULTING ENGINEERS

JOB NO. 729-086-241DATE 4/25/2024PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_

OF \_\_\_\_\_

SUBJECT: Allowable Connector LoadsDESIGNED MSCHECKED KAB**16d SINKERS***\*Use 16d sinker nails (0.148" Diameter x 3 1/4")**\*Assume all nails penetrate through a 1/2" plate, 23/32" floor sheathing and 1/2" of solid blocking.*

$$Z_{16d \text{ sinker}} = 103 \text{ lbs/nail} \quad C_D = \boxed{1.6} \quad C_t = \boxed{1.0}$$

$$Z'_{16d \text{ sinker}} = (Z_{16d \text{ sinker}})(C_D)(C_M)(C_t) \quad SG = \boxed{0.50} \quad C_M = \boxed{1.0}$$

$$= (103 \text{ lbs/nail})(1.6)(1.0)(1.0)$$

$$= 165 \text{ lbs/nail}$$

16d sinkers at	8 in o.c.	⇒	165 lbs/nail x	1.5 nails/ft =	<b>247 lbs/ft</b>
16d sinkers at	5 in o.c.	⇒	165 lbs/nail x	2.4 nails/ft =	<b>396 lbs/ft</b>
16d sinkers at	4 in o.c.	⇒	165 lbs/nail x	3 nails/ft =	<b>494 lbs/ft</b>
16d sinkers at	3 in o.c.	⇒	165 lbs/nail x	4 nails/ft =	<b>659 lbs/ft</b>
16d sinkers at	2 in o.c.	⇒	165 lbs/nail x	6 nails/ft =	<b>989 lbs/ft</b>

**16d SINKERS***\*Use 16d sinker nails (0.148" Diameter x 3 1/4")**\*Assume all nails penetrate through a 1/2" plate into 1/2" (min) plate.*

$$Z_{16d \text{ sinker}} = 118 \text{ lbs/nail} \quad C_D = \boxed{1.6} \quad C_t = \boxed{1.0}$$

$$Z'_{16d \text{ sinker}} = (Z_{16d \text{ sinker}})(C_D)(C_M)(C_t) \quad SG = \boxed{0.50} \quad C_M = \boxed{1.0}$$

$$= (118 \text{ lbs/nail})(1.6)(1.0)(1.0)$$

$$= 189 \text{ lbs/nail}$$

16d sinkers at	8 in o.c.	⇒	165 lbs/nail x	1.5 nails/ft =	<b>283 lbs/ft</b>
16d sinkers at	5 in o.c.	⇒	165 lbs/nail x	2.4 nails/ft =	<b>453 lbs/ft</b>
16d sinkers at	4 in o.c.	⇒	165 lbs/nail x	3 nails/ft =	<b>566 lbs/ft</b>
16d sinkers at	3 in o.c.	⇒	165 lbs/nail x	4 nails/ft =	<b>755 lbs/ft</b>
16d sinkers at	2 in o.c.	⇒	165 lbs/nail x	6 nails/ft =	<b>1133 lbs/ft</b>

**WOOD SCREWS***\*Assume all screws penetrate through a 1/2" plate, 23/32" floor sheathing and 1/2" of solid blocking.*

$$Z_{1/4" \times 6 \text{ WS}} = 135 \text{ lbs/nail} \quad C_D = \boxed{1.6} \quad C_t = \boxed{1.0}$$

$$Z'_{1/4" \times 6 \text{ WS}} = (Z_{1/4" \times 6 \text{ WS}})(C_D)(C_M)(C_t) \quad SG = \boxed{0.50} \quad C_M = \boxed{1.0}$$

$$= (135 \text{ lbs/screw})(1.6)(1.0)(1.0)$$

$$= 216 \text{ lbs/screw}$$

1/4" x 6 WS	6 in o.c.	⇒	216 lbs/screw x	2 screws/ft =	<b>432 lbs/ft</b>
1/4" x 6 WS	4 in o.c.	⇒	216 lbs/screw x	3 screws/ft =	<b>648 lbs/ft</b>
1/4" x 6 WS	3 in o.c.	⇒	216 lbs/screw x	4 screws/ft =	<b>864 lbs/ft</b>
1/4" x 6 WS	2 in o.c.	⇒	216 lbs/screw x	6 screws/ft =	<b>1296 lbs/ft</b>

**A35***\*Assume full penetration of nails as required by manufacturer for full load*

SG =  $\boxed{0.50}$

A35 = 695 lbs

A35	32 in o.c.	⇒	695 lbs/clip x	0.4 clips/ft =	<b>261 lbs/ft</b>
A35	18 in o.c.	⇒	695 lbs/clip x	0.7 clips/ft =	<b>463 lbs/ft</b>
A35	12 in o.c.	⇒	695 lbs/clip x	1 clips/ft =	<b>695 lbs/ft</b>
A35	10 in o.c.	⇒	695 lbs/clip x	1.2 clips/ft =	<b>834 lbs/ft</b>
A35	8 in o.c.	⇒	695 lbs/clip x	1.5 clips/ft =	<b>1043 lbs/ft</b>

**LTP4***\*Assume full penetration of nails as required by manufacturer for full load*

SG =  $\boxed{0.50}$

LTP4 = 670 lbs

LTP4	32 in o.c.	⇒	670 lbs/clip x	0.4 clips/ft =	<b>251 lbs/ft</b>
LTP4	18 in o.c.	⇒	670 lbs/clip x	0.7 clips/ft =	<b>447 lbs/ft</b>
LTP4	12 in o.c.	⇒	670 lbs/clip x	1 clips/ft =	<b>670 lbs/ft</b>
LTP4	10 in o.c.	⇒	670 lbs/clip x	1.2 clips/ft =	<b>804 lbs/ft</b>
LTP4	8 in o.c.	⇒	670 lbs/clip x	1.5 clips/ft =	<b>1005 lbs/ft</b>

ADDED PAGE

# LATERAL

**L. R. NELSON CONSULTING ENGINEERS**

**JOB NO.** 729-086-241

**DATE** 04/25/24

**PROJECT** SNRHA BENNET PLAZA  
**SUBJECT** SEISMIC LOADS

**SHEET** \_\_\_\_\_ **SECTION** \_\_\_\_\_  
**DESIGNED** MS **CHECKED** KAB

**SEISMIC LOADS (Main Lateral Force Resisting System)**

Risk Category =	II
Seismic Design Category =	D

See below

Site Class:	D
R =	6.5
S <sub>s</sub> =	0.641
S <sub>1</sub> =	0.207
F <sub>a</sub> =	1.287
F <sub>v</sub> =	2.186
S <sub>MS</sub> =	0.83
S <sub>M1</sub> =	0.45
S <sub>DS</sub> =	0.550
S <sub>D1</sub> =	0.302

N =	4	(number of stories)
C <sub>T</sub> =	0.02	
h <sub>n</sub> (ft) =	45.00	(to highest level)
T <sub>a</sub> =	0.35	
x =	0.75	
T <sub>L</sub> =	6	

Redundancy, ρ =	1.00
-----------------	------

SDC =	D
SDC =	D

I <sub>E</sub> =	1.00
C <sub>S</sub> MAX =	0.134
C <sub>S</sub> =	0.085
C <sub>S</sub> MIN =	0.010
C <sub>S</sub> MIN =	0

C <sub>S</sub> CONTROL =	0.085
ρ*0.7*C <sub>S</sub> CONTROL =	0.059

E = ρQ <sub>E</sub> + 0.2S <sub>DS</sub> D =	0.085	x W +	0.110	x D
E = ρQ <sub>E</sub> - 0.2S <sub>DS</sub> D =	0.085	x W -	0.110	x D
0.7E = 0.7(ρQ <sub>E</sub> + 0.2S <sub>DS</sub> D) =	<b>0.059</b>	x W +	<b>0.077</b>	x D
0.7E = 0.7(ρQ <sub>E</sub> - 0.2S <sub>DS</sub> D) =	<b>0.059</b>	x W -	<b>0.077</b>	x D

## L. R. NELSON CONSULTING ENGINEERS

JOB NO. 729-086-241DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
 SUBJECT VERTICAL REDISTRIBUTION

SHEET MS SECTION KAB  
 DESIGNED MS CHECKED KAB

### VERTICAL REDISTRIBUTION OF SEISMIC FORCES

Number of Stories = 4Seismic Coefficient,  $C_s =$  0.085 $0.7 \times C_s =$  0.059Building Period,  $T =$  0.35 < 0.5 =>  $k =$  1

LEVEL	H (ft)	W (lb or psf)	ADJUSTED SEISMIC FACTOR AT LEVEL	SEISMIC ADJUSTMENT FACTOR AT LEVEL
2nd FLOOR	11.00	275,659 lbs	<b>0.027</b>	<b>0.449</b>
3rd FLOOR	22.00	283,068 lbs	<b>0.053</b>	<b>0.898</b>
4th FLOOR	33.00	311,032 lbs	<b>0.080</b>	<b>1.347</b>
ROOF	45.00	86,633 lbs	<b>0.109</b>	<b>1.837</b>
N/A	0.00	0 lbs	N/A	N/A

### CALCULATED VALUES:

Level (i)	Height ( $h_i$ )	Weight ( $w_i$ )	$h_i^{k*}w_i$	Vertical Distribution of Shear	% of Base Shear
2nd FLOOR	11.00	275,659	3,032,254	12.95%	100.00%
3rd FLOOR	22.00	283,068	6,227,493	26.59%	87.05%
4th FLOOR	33.00	311,032	10,264,065	43.82%	60.47%
ROOF	45.00	86,633	3,898,506	16.64%	16.64%
N/A	0.00	0	0	0.00%	0.00%
$\Sigma =$		956,393	23,422,318	100.00%	

**L. R. NELSON CONSULTING ENGINEERS**

**JOB NO.** 729-086-241

**DATE** 04/25/24

**PROJECT** SNRHA BENNET PLAZA  
**SUBJECT** WIND LOADS (Main Lateral Force Resisting System)

**SHEET** \_\_\_\_\_ **SECTION** \_\_\_\_\_  
**DESIGNED** MS **CHECKED** KAB

Envelope Procedure: Low Rise Buildings  
 $p = q_h[(GC_{pf}) - (GC_{pi})]$  psf

Roof Angle =	14.04	degrees
Roof Slope =	3	/12
Mean Roof Height	40	
Topo. Factor, $K_{zt}$ =	1.00	
Wind Dir. Factor, $K_d$ =	0.85	
Grnd Elev Factor, $K_e$ =	0.95	

Wind Speed $V_{3s}$ =	100 mph	$\omega$ =	1.0
Exposure =	C		

HEIGHT (ft)	$K_z$	$q_z$ (psf)	$q_h$ (psf)	PRESSURE (psf)					END ZONE PRESSURE (psf)				Internal Pressure (+/-)
				Windward Walls (Zone 1)	Windward Roof (Zone 2)	Leeward Roof (Zone 3)	Leeward Walls (Zone 4)	Side Walls (Zones 5 & 6)	Windward Walls (Zone 1E)	Windward Roof (Zone 2E)	Leeward Roof (Zone 3E)	Leeward Walls (Zone 4E)	
<b><math>GC_{pf}</math> =</b>				0.48	-0.69	-0.44	-0.37	-0.45	0.72	-1.07	-0.63	-0.56	0.18
0-15	0.85	17.58		8.50	-12.20	-7.70	-6.60	-8.00	12.80	-18.90	-11.10	-9.80	3.20
16	0.86	17.78		8.50	-12.30	-7.80	-6.70	-8.10	12.90	-19.10	-11.20	-9.90	3.30
17	0.87	17.99		8.60	-12.50	-7.90	-6.80	-8.10	13.10	-19.30	-11.30	-10.10	3.30
18	0.88	18.20		8.70	-12.60	-8.00	-6.90	-8.20	13.20	-19.50	-11.40	-10.20	3.30
19	0.89	18.40		8.80	-12.70	-8.10	-6.90	-8.30	13.40	-19.70	-11.60	-10.30	3.40
20	0.90	18.61		8.90	-12.90	-8.20	-7.00	-8.40	13.50	-20.00	-11.70	-10.40	3.40
21	0.91	18.78		9.00	-13.00	-8.20	-7.10	-8.50	13.60	-20.10	-11.80	-10.50	3.40
22	0.92	18.94		9.10	-13.10	-8.30	-7.10	-8.60	13.80	-20.30	-11.90	-10.60	3.50
23	0.92	19.11		9.20	-13.20	-8.40	-7.20	-8.60	13.90	-20.50	-12.00	-10.70	3.50
24	0.93	19.27		9.30	-13.30	-8.50	-7.30	-8.70	14.00	-20.70	-12.10	-10.80	3.50
25	0.94	19.44		9.30	-13.50	-8.50	-7.30	-8.80	14.10	-20.90	-12.20	-10.90	3.50
26	0.95	19.60		9.40	-13.60	-8.60	-7.40	-8.90	14.20	-21.00	-12.30	-10.90	3.60
27	0.96	19.77		9.50	-13.70	-8.70	-7.40	-8.90	14.40	-21.20	-12.40	-11.00	3.60
28	0.96	19.93		9.60	-13.80	-8.70	-7.50	-9.00	14.50	-21.40	-12.50	-11.10	3.60
29	0.97	20.10		9.70	-13.90	-8.80	-7.60	-9.10	14.60	-21.60	-12.60	-11.20	3.70
30	0.98	20.26		9.70	-14.00	-8.90	-7.60	-9.20	14.70	-21.70	-12.70	-11.30	3.70
31	0.99	20.39		9.80	-14.10	-8.90	-7.70	-9.20	14.80	-21.90	-12.80	-11.40	3.70
32	0.99	20.51		9.90	-14.20	-9.00	-7.70	-9.30	14.90	-22.00	-12.90	-11.50	3.70
33	1.00	20.64		9.90	-14.30	-9.00	-7.80	-9.30	15.00	-22.10	-13.00	-11.50	3.80
34	1.00	20.76		10.00	-14.40	-9.10	-7.80	-9.40	15.10	-22.30	-13.00	-11.60	3.80
35	1.01	20.88		10.00	-14.50	-9.20	-7.90	-9.40	15.20	-22.40	-13.10	-11.70	3.80
36	1.02	21.01		10.10	-14.50	-9.20	-7.90	-9.50	15.30	-22.50	-13.20	-11.70	3.80
37	1.02	21.13		10.20	-14.60	-9.30	-8.00	-9.60	15.30	-22.70	-13.30	-11.80	3.90
38	1.03	21.26		10.20	-14.70	-9.30	-8.00	-9.60	15.40	-22.80	-13.40	-11.90	3.90
39	1.03	21.38		10.30	-14.80	-9.40	-8.00	-9.70	15.50	-22.90	-13.40	-11.90	3.90
40	1.04	21.50	<b>21.50</b>	10.30	-14.90	-9.40	-8.10	-9.70	15.60	-23.10	-13.50	-12.00	3.90
41	1.05	21.61		10.40	-15.00	-9.50	-8.10	-9.80	15.70	-23.20	-13.60	-12.10	3.90
42	1.05	21.71		10.40	-15.00	-9.50	-8.20	-9.80	15.80	-23.30	-13.60	-12.10	4.00
43	1.06	21.81		10.50	-15.10	-9.60	-8.20	-9.90	15.80	-23.40	-13.70	-12.20	4.00
44	1.06	21.92		10.50	-15.20	-9.60	-8.20	-9.90	15.90	-23.50	-13.80	-12.20	4.00
45	1.07	22.02		10.60	-15.20	-9.70	-8.30	-10.00	16.00	-23.60	-13.80	-12.30	4.00
46	1.07	22.12		10.60	-15.30	-9.70	-8.30	-10.00	16.10	-23.70	-13.90	-12.30	4.00
47	1.08	22.23		10.70	-15.40	-9.70	-8.40	-10.10	16.10	-23.80	-14.00	-12.40	4.10
48	1.08	22.33		10.70	-15.50	-9.80	-8.40	-10.10	16.20	-23.90	-14.00	-12.50	4.10
49	1.09	22.43		10.80	-15.50	-9.80	-8.40	-10.10	16.30	-24.10	-14.10	-12.50	4.10
50	1.09	22.54		10.80	-15.60	-9.90	-8.50	-10.20	16.40	-24.20	-14.20	-12.60	4.10
51	1.09	22.62		10.90	-15.70	-9.90	-8.50	-10.20	16.40	-24.30	-14.20	-12.60	4.10
52	1.10	22.70		10.90	-15.70	-9.90	-8.50	-10.30	16.50	-24.30	-14.30	-12.70	4.10
53	1.10	22.79		10.90	-15.80	-10.00	-8.60	-10.30	16.50	-24.40	-14.30	-12.70	4.20
54	1.11	22.87		11.00	-15.80	-10.00	-8.60	-10.30	16.60	-24.50	-14.40	-12.80	4.20
55	1.11	22.95		11.00	-15.90	-10.10	-8.60	-10.40	16.70	-24.60	-14.40	-12.80	4.20
56	1.11	23.03		11.10	-15.90	-10.10	-8.70	-10.40	16.70	-24.70	-14.50	-12.90	4.20
57	1.12	23.12		11.10	-16.00	-10.10	-8.70	-10.50	16.80	-24.80	-14.50	-12.90	4.20
58	1.12	23.20		11.10	-16.10	-10.20	-8.70	-10.50	16.80	-24.90	-14.60	-12.90	4.20
59	1.13	23.28		11.20	-16.10	-10.20	-8.80	-10.50	16.90	-25.00	-14.60	-13.00	4.20
60	1.13	23.36		11.20	-16.20	-10.20	-8.80	-10.60	17.00	-25.00	-14.70	-13.00	4.30

**L. R. NELSON CONSULTING ENGINEERS**

**JOB NO.** 729-086-241  
**DATE** 04/25/24

**PROJECT** SNRHA BENNET PLAZA  
**SUBJECT** LATERAL LINE LOADS

**DESIGNED** \_\_\_\_\_  
**SHEET** MS  
**SECTION** \_\_\_\_\_  
**CHECKED** KAB

**Seismic Line Loads**

Label	Level	Roof Trib (ft)	Floor Trib (ft)	Wall Trib (ft)	Other (lb/ft)	Total Weight (lb/ft)	Total Force (lb/ft)	Redist Factor	Revised Force (lb/ft)
ω1	4th FLOOR	142	0	29	284	4014	238	1.347	320
ω2	4th FLOOR	39	0	15.5	78	1223	72	1.347	98
ω3	4th FLOOR	71	0	20	142	2095	124	1.347	167
ω4	4th FLOOR	87.5	0	24.5	175	2580	153	1.347	206
ω5	3rd FLOOR	0	142	60.5	284	4092	242	0.898	218
ω6	3rd FLOOR	0	39	29	78	1322	78	0.898	70
ω7	3rd FLOOR	0	71	38	142	2170	129	0.898	115
ω8	3rd FLOOR	0	87.5	42.5	175	2605	154	0.898	139
ω9	2nd FLOOR	0	142	65	284	4164	247	0.449	111
ω10	2nd FLOOR	0	39	29	78	1322	78	0.449	35
ω11	2nd FLOOR	0	71	38	142	2170	129	0.449	58
ω12	2nd FLOOR	0	87.5	47	175	2677	159	0.449	71
ω13	ROOF	68	0	50	136	2500	148	1.837	272
ω14	ROOF	32.5	0	22.5	65	1173	69	1.837	128
ω15	2nd FLOOR	32.5	0	16	65	1069	63	0.449	28
						0	0	1.000	0
ω17	3rd FLOOR	0	68	20	136	1816	108	0.898	97
ω18	3rd FLOOR	0	32.5	11	65	891	53	0.898	47
ω19	2nd FLOOR	0	68	20	136	1816	108	0.449	48
ω20	2nd FLOOR	0	32.5	11	65	891	53	0.449	24
						0	0	1.000	0

Roof DL	23.00	psf
Seismic Snow	0.00	psf
Floor DL	20.00	psf
Wall DL	16.00	psf
Seis Coeff	0.059	+ V

**Wind Line Loads**

**PROCEDURE:** Envelope: X Directional: Not Used

Label	Roof Pitch /12	Mean Roof Height (ft)	Direction of Wind Parallel to Ridge?	Windward Wall (ft)	Leeward Wall (ft)	Windward Roof (ft)	Leeward Roof (ft)	Ultimate Interior Zone Force *w (plf)	Ultimate End Zone Force *w (plf)	Ultimate 16 psf wall & 8 psf roof min. (plf)	Allowable Interior Zone Force *w (plf)	Allowable End Zone Force *w (plf)	Allowable 9.6 psf wall & 4.8 psf roof min. (plf)
ω1	3.00/12	33	No	11.666	11.666	5	5	188.27	276.07	226.66	112.96	165.64	135.99
ω2	3.00/12	33	No	11.666	11.666	5	5	188.27	276.07	226.66	112.96	165.64	135.99
ω3	3.00/12	33	No	11.666	11.666	5	5	188.27	276.07	226.66	112.96	165.64	135.99
ω4	3.00/12	33	No	11.666	11.666	5	5	188.27	276.07	226.66	112.96	165.64	135.99
ω5	3.00/12	22	No	9	9	0	0	152.84	229.62	144.00	91.70	137.77	86.40
ω6	3.00/12	22	No	9	9	0	0	152.84	229.62	144.00	91.70	137.77	86.40
ω7	3.00/12	22	No	9	9	0	0	152.84	229.62	144.00	91.70	137.77	86.40
ω8	3.00/12	22	No	9	9	0	0	152.84	229.62	144.00	91.70	137.77	86.40
ω9	3.00/12	11	No	9	9	0	0	141.83	213.07	144.00	85.10	127.84	86.40
ω10	3.00/12	11	No	9	9	0	0	141.83	213.07	144.00	85.10	127.84	86.40
ω11	3.00/12	11	No	9	9	0	0	141.83	213.07	144.00	85.10	127.84	86.40
ω12	3.00/12	11	No	9	9	0	0	141.83	213.07	144.00	85.10	127.84	86.40
ω13	3.00/12	46	No	6.5	6.5	2	2	117.11	173.04	120.00	70.27	103.82	72.00
ω14	3.00/12	46	No	11.25	11.25	2	2	211.34	314.60	196.00	126.80	188.76	117.60
ω15	3.00/12	13	No	8	8	2.5	2.5	114.32	168.87	148.00	68.59	101.32	88.80
								0.00	0.00	0.00	0.00	0.00	0.00
ω17	3.00/12	22	No	11	11	0	0	186.80	280.64	176.00	112.08	168.39	105.60
ω18	3.00/12	22	No	11	11	0	0	186.80	280.64	176.00	112.08	168.39	105.60
ω19	3.00/12	11	No	11	11	0	0	173.34	260.42	176.00	104.01	156.25	105.60
ω20	3.00/12	11	No	11	11	0	0	173.34	260.42	176.00	104.01	156.25	105.60
								0.00	0.00	0.00	0.00	0.00	0.00

Note: "16 psf wall & 8 psf roof min. (plf)" check is sometimes set to zero due to the line load being windward only or leeward only (16 psf wall & 8 psf roof min. (plf) check is for windward + leeward)



L. R. NELSON CONSULTING ENGINEERS

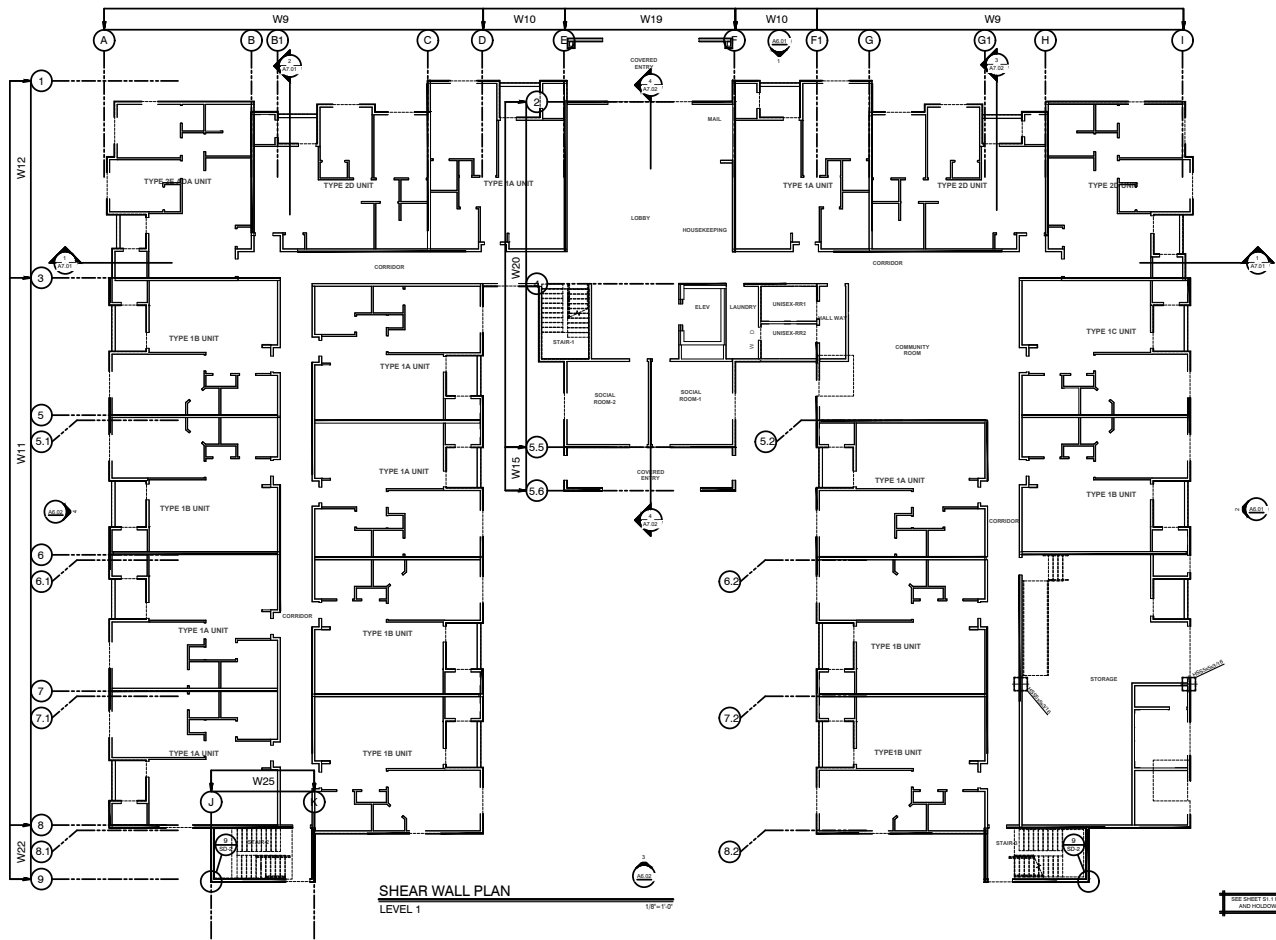
REVISED

JOB NO. 729-086-241

DATE 07-08-2024

PROJECT SHEET OF

SUBJECT SHEAR WALL KEY PLAN DESIGNED CHECKED



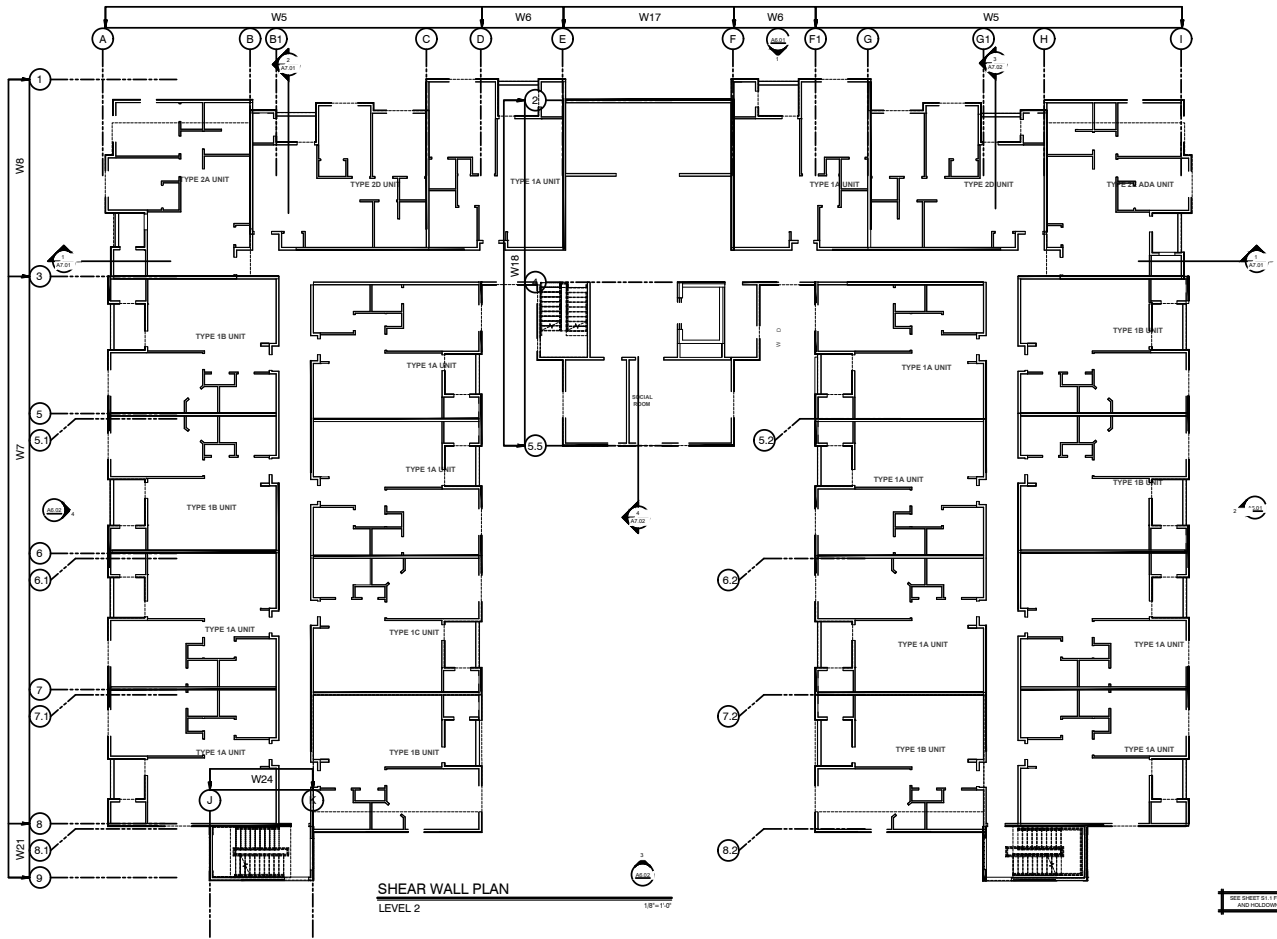


REVISED

JOB NO. 729-086-241

DATE 07-08-2024

PROJECT SHEET OF  
SUBJECT SHEAR WALL KEY PLAN DESIGNED CHECKED



L. R. NELSON CONSULTING ENGINEERS

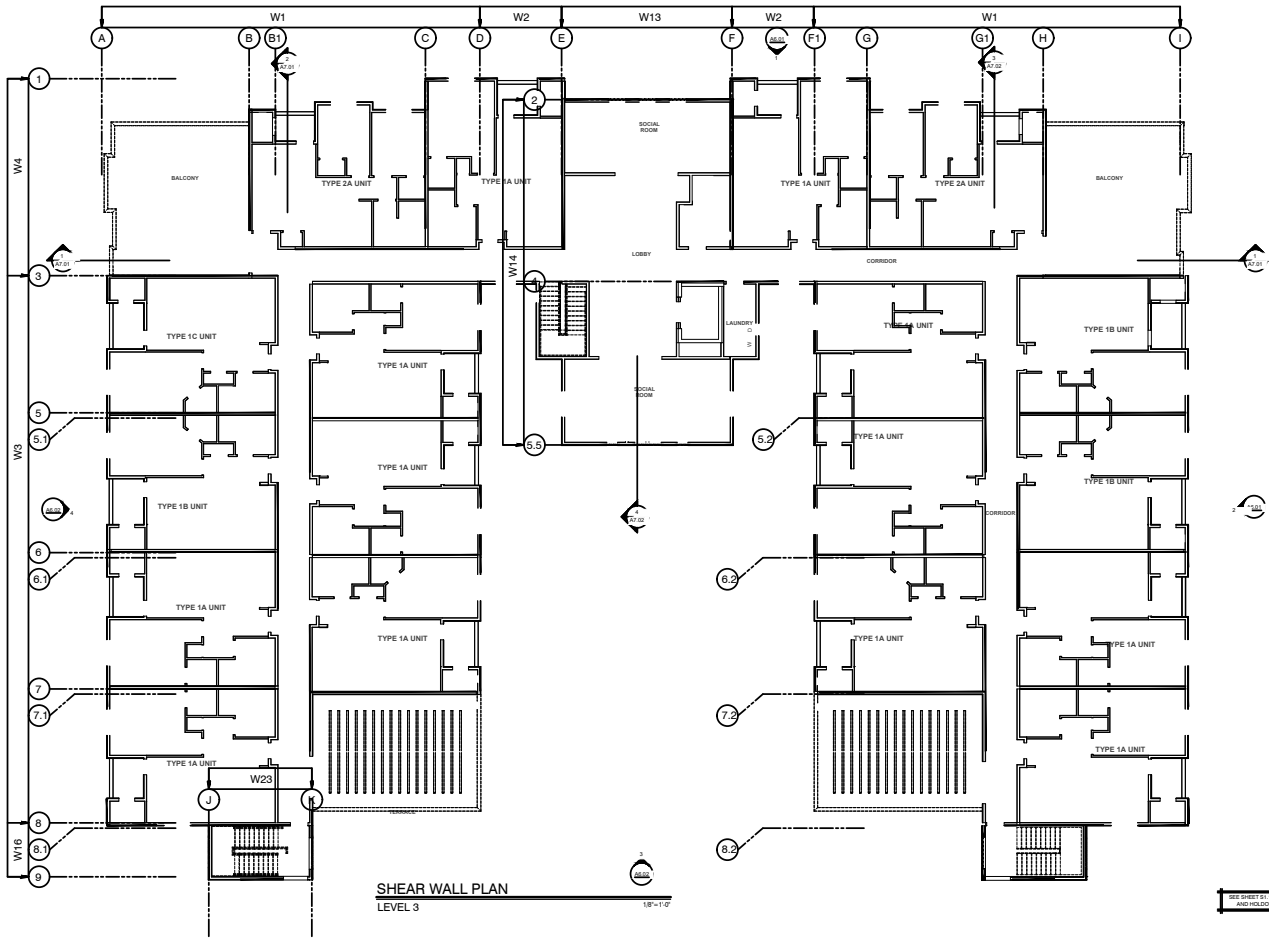
REVISED

JOB NO. 729-086-241

DATE 07-08-2024

PROJECT SHEET OF

SUBJECT SHEAR WALL KEY PLAN DESIGNED CHECKED



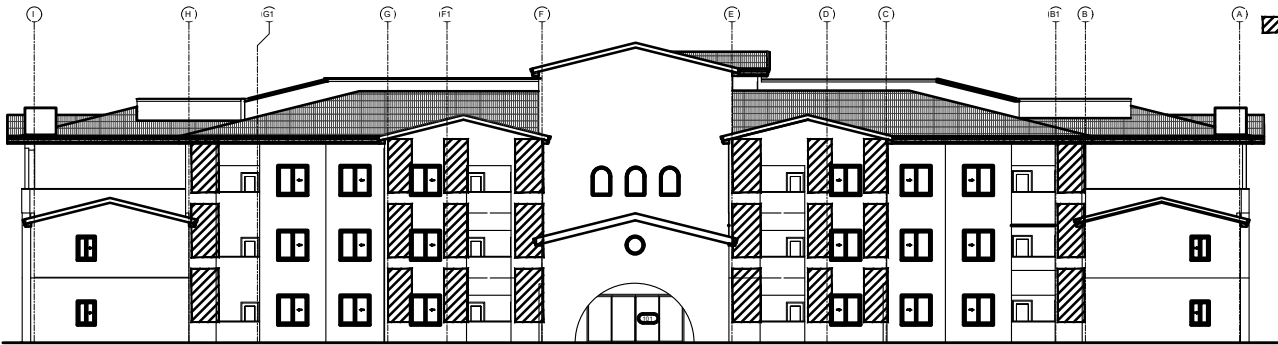
L. R. NELSON CONSULTING ENGINEERS

REVISED

JOB NO. 729-086-241

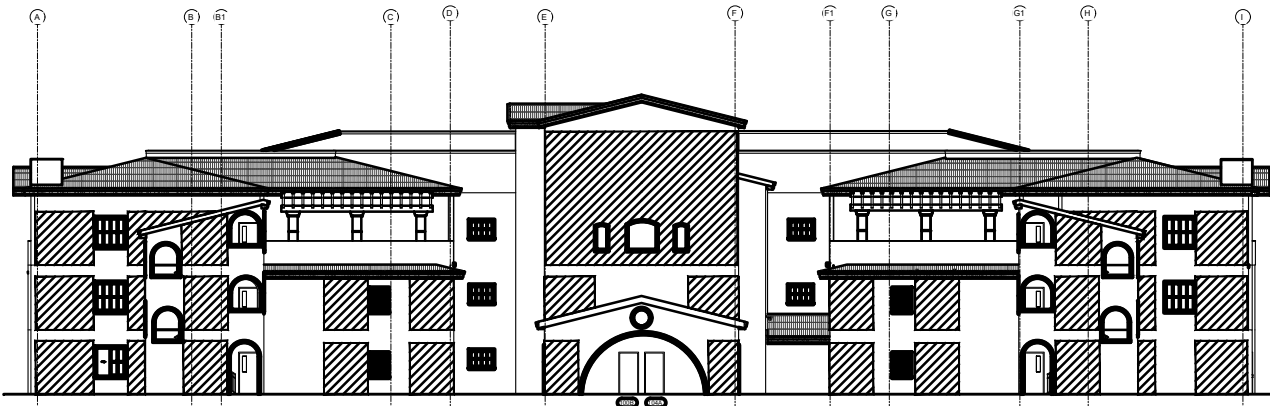
DATE 03-18-2024

PROJECT SHEET OF
SUBJECT SHEAR WALL KEY PLAN DESIGNED CHECKED



SHEET ADDED

SHEAR WALL PLAN
ELEVATION 1 A6.01
1/8"=1'-0"



SHEAR WALL PLAN
ELEVATION 3 A6.02
1/8"=1'-0"

L. R. NELSON CONSULTING ENGINEERS

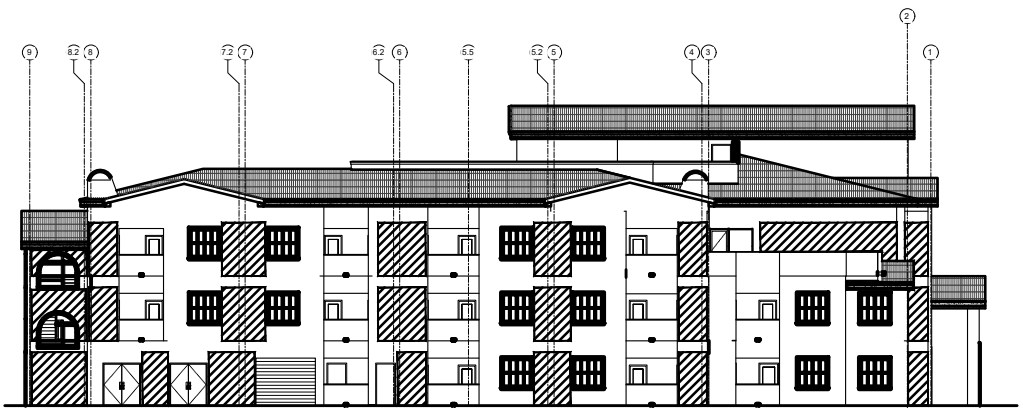
REVISED

JOB NO. 729-086-241

DATE 03-18-2024

PROJECT SHEET OF

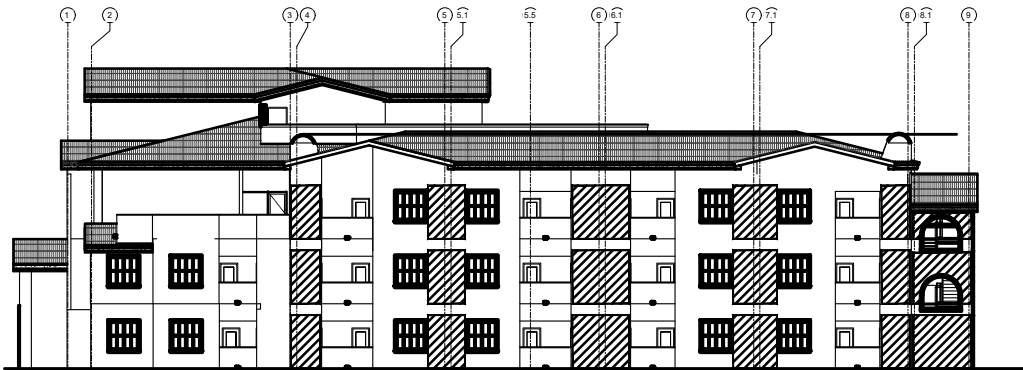
SUBJECT SHEAR WALL KEY PLAN DESIGNED CHECKED



▨ SHEAR WALL

SHEET ADDED

SHEAR WALL PLAN  
ELEVATION 2 A6.01 1/8"=1'-0"



SHEAR WALL PLAN  
ELEVATION 4 A6.02 1/8"=1'-0"

L. R. NELSON CONSULTING ENGINEERS

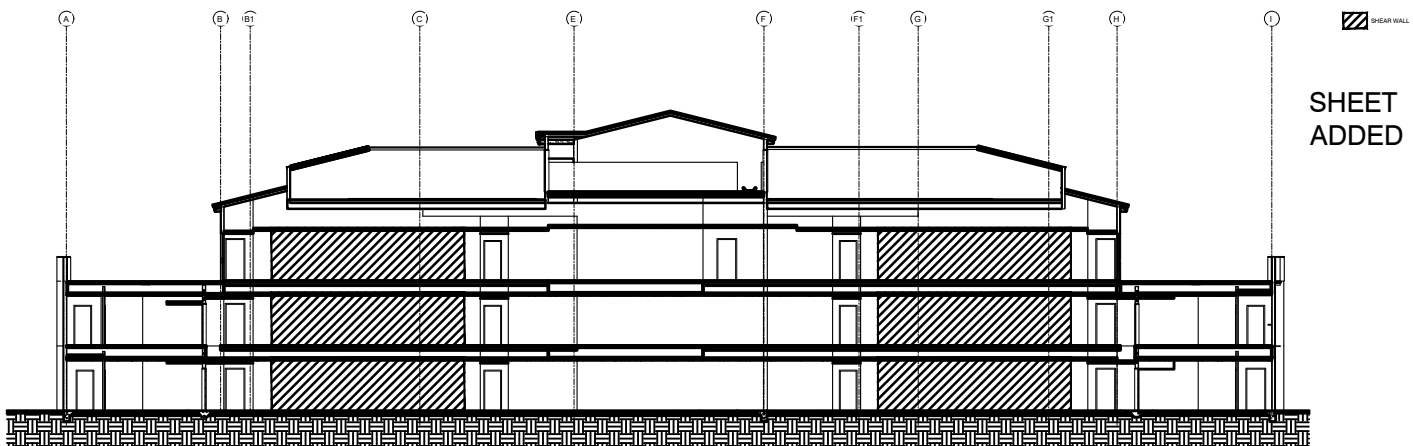
REVISED

JOB NO. 729-086-241

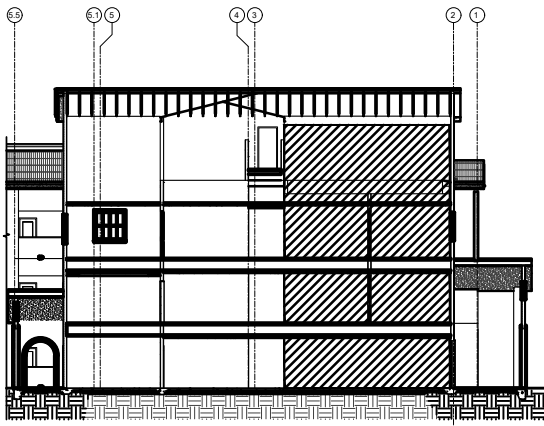
DATE 03-18-2024

PROJECT \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_

SUBJECT SHEAR WALL KEY PLAN DESIGNED \_\_\_\_\_ CHECKED \_\_\_\_\_



SHEAR WALL PLAN  
ELEVATION 1 A7.01  
1/8"=1'-0"



SHEAR WALL PLAN  
ELEVATION 4 A7.02  
1/8"=1'-0"

L. R. NELSON CONSULTING ENGINEERS

REVISED

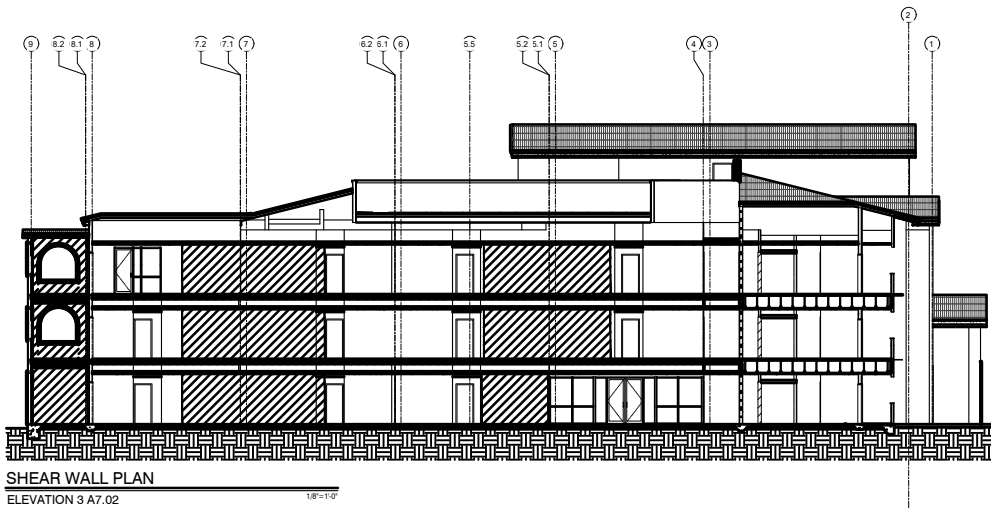
JOB NO. 729-086-241

DATE 03-18-2024

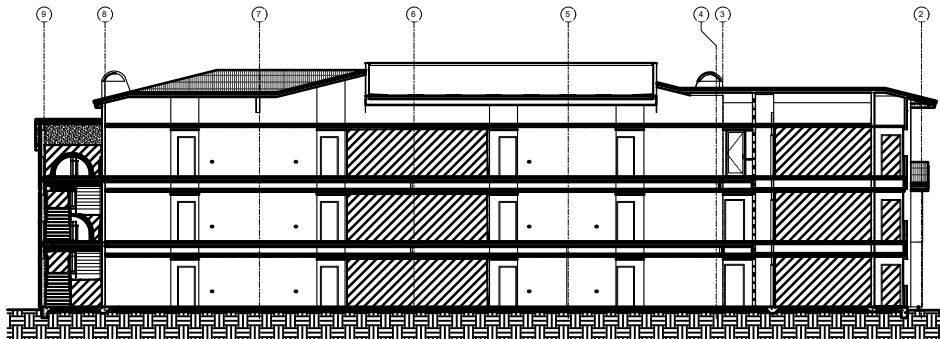
PROJECT SHEET OF
SUBJECT SHEAR WALL KEY PLAN DESIGNED CHECKED

SHEAR WALL

SHEET ADDED



SHEAR WALL PLAN
ELEVATION 3 A7.02
1/8"=1'-0"



SHEAR WALL PLAN
ELEVATION 2 A7.01
1/8"=1'-0"



JOB NO. 729-086-241  
DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET DESIGNED MS  
SECTION CHECKED KAB

Allowable aspect ratio/1= 3.5												ω = 1.0		Roof DL (psf)= 23		Floor DL (psf)= 20		Wall DL (psf)= 16	
LINE: A 3RD STORY Total Length (ft)= 31.916												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N			
Least Horizontal Dimension (ft) 3.66												Reduce for aspect ratio Y							
Load Trib w (ft) I <sub>E</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) plift Pressure (psf) =												Shear pier height(ft)= 9							
ω1 14.00 320.4 136.0 113.0 165.6 Major 28 6 282 -16.29																			
0.0 0.0 0.0 0.0																			
0.0 0.0 0.0 0.0																			
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w (ft) Floor <sub>DL</sub> 'w (ft) Other <sub>DL</sub> 'w (plf) O <sub>TM</sub> -Wind (ft-lb) O <sub>TM</sub> -Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)												above=		Wind (lb)		Seis (lb)			
4.75 2,550 6,008 975 P1 CS16 Corner 60 365 141 260 332 1,060 O.K.												Total=		1904		4486			
6.67 3,579 8,432 1,920 P1 CS16 Corner 60 365 141 260 249 977 O.K.																			
8.00 4,295 10,119 2,765 P1 CS16 Corner 60 365 141 260 191 919 O.K.																			
7.75 4,161 9,803 2,595 P1 CS16 Corner 60 365 141 260 202 930 O.K.																			
4.75 2,550 6,008 975 P1 CS16 Corner 60 365 141 260 332 1,060 O.K.																			

NOTES:

LINE: A 2ND STORY Total Length (ft)= 31.916												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N	
Least Horizontal Dimension (ft) 3.66												Reduce for aspect ratio Y					
Load Trib w (ft) I <sub>E</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) plift Pressure (psf) =												Shear pier height(ft)= 9					
ω5 14.00 217.8 86.4 91.7 137.8 Major 28 6 247 -14.952																	
0.0 0.0 0.0 0.0																	
0.0 0.0 0.0 0.0																	
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w (ft) Floor <sub>DL</sub> 'w (ft) Other <sub>DL</sub> 'w (plf) O <sub>TM</sub> -Wind (ft-lb) O <sub>TM</sub> -Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)												above=		Wind (lb)		Seis (lb)	
4.75 4,600 10,092 975 332 1,060 P2 CMSTC16 Corner 108 533 236 380 1,095 2,979 O.K.												Total=		1904		4486	
6.67 6,456 14,163 1,920 249 977 P2 (2) CS16 Corner 108 533 236 380 929 2,814 O.K.														3435		7534	
8.00 7,748 16,997 2,765 191 919 P2 (2) CS16 Corner 108 533 236 380 814 2,698 O.K.																	
7.75 7,506 16,466 2,595 202 930 P2 (2) CS16 Corner 108 533 236 380 836 2,720 O.K.																	
4.75 4,600 10,092 975 332 1,060 P2 CMSTC16 Corner 108 533 236 380 1,095 2,979 O.K.																	

NOTES:

LINE: A 1ST STORY Total Length (ft)= 31.916												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N	
Least Horizontal Dimension (ft) 3.66												Reduce for aspect ratio Y					
Load Trib w (ft) I <sub>E</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) plift Pressure (psf) =												Shear pier height(ft)= 9					
ω9 14.00 110.8 86.4 85.1 127.8 Major 28 6 229 -13.872																	
0.0 0.0 0.0 0.0																	
0.0 0.0 0.0 0.0																	
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w (ft) Floor <sub>DL</sub> 'w (ft) Other <sub>DL</sub> 'w (plf) O <sub>TM</sub> -Wind (ft-lb) O <sub>TM</sub> -Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)												above=		Wind (lb)		Seis (lb)	
4.75 6,503 12,170 975 1,095 2,979 P2 HDU8 Corner 152 533 285 380 2,259 5,336 O.K.												Total=		3435		7534	
6.67 9,126 17,078 1,920 929 2,814 P2 HDU8 Corner 152 533 285 380 2,010 5,088 O.K.														4855		9085	
8.00 10,952 20,496 2,765 814 2,698 P2 HDU8 Corner 152 533 285 380 1,838 4,915 O.K.																	
7.75 10,610 19,856 2,595 836 2,720 P2 HDU8 Corner 152 533 285 380 1,870 4,947 O.K.																	
4.75 6,503 12,170 975 1,095 2,979 P2 HDU8 Corner 152 533 285 380 2,259 5,336 O.K.																	

NOTES:

LINE: I 3RD STORY Total Length (ft)= 31.916												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N	
Least Horizontal Dimension (ft) 3.66												Reduce for aspect ratio Y					
Load Trib w (ft) I <sub>E</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) plift Pressure (psf) =												Shear pier height(ft)= 9					
ω1 14.00 320.4 136.0 113.0 165.6 Major 28 6 282 -16.29																	
0.0 0.0 0.0 0.0																	
0.0 0.0 0.0 0.0																	
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w (ft) Floor <sub>DL</sub> 'w (ft) Other <sub>DL</sub> 'w (plf) O <sub>TM</sub> -Wind (ft-lb) O <sub>TM</sub> -Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)												above=		Wind (lb)		Seis (lb)	
4.75 2,550 6,008 975 P1 CS16 Corner 60 365 141 260 332 1,060 O.K.												Total=		1904		4486	
6.67 3,579 8,432 1,920 P1 CS16 Corner 60 365 141 260 249 977 O.K.																	
8.00 4,295 10,119 2,765 P1 CS16 Corner 60 365 141 260 191 919 O.K.																	
7.75 4,161 9,803 2,595 P1 CS16 Corner 60 365 141 260 202 930 O.K.																	
4.75 2,550 6,008 975 P1 CS16 Corner 60 365 141 260 332 1,060 O.K.																	

NOTES:



JOB NO. 729-086-241  
DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET DESIGNED MS SECTION CHECKED KAB

Allowable aspect ratio/1= 3.5												ω = 1.0		Roof DL (psf)= 23	Floor DL (psf)= 20	Wall DL (psf)= 16		
LINE: I	2ND STORY		Total Length (ft)= 31.916	Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9		Calc A.B. N								
Least Horizontal Dimension (ft) 3.66			ω (min) 86.4		ω 91.7	w (EZ) 137.8	E.Z. Appl Major	Ld Spn(ft) 28	2*a (ft) 6	E.Z. P (lb) 247	plift Pressure (psf) = -14.952	Reduce for aspect ratio Y	Shear pier height(ft)= 9	Wind (lb) 1904	Seis (lb) 4486			
Load ω5	Trib w (ft) 14.00	I <sub>E</sub> *Seis 217.8	ω (min) 86.4	ω 91.7	w (EZ) 137.8	E.Z. Appl Major	Ld Spn(ft) 28	2*a (ft) 6	E.Z. P (lb) 247	plift Pressure (psf) = -14.952	Reduce for aspect ratio Y	Shear pier height(ft)= 9	Wind (lb) 1904	Seis (lb) 4486				
												above= 3435	Seis (lb) 7534					
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
4.75				4,600	10,092	975	332	1,060	P2	CMSTC16	Corner	108	533	236	380	1,095	2,979	O.K.
6.67				6,456	14,163	1,920	249	977	P2	(2) CS16	Corner	108	533	236	380	929	2,814	O.K.
8.00				7,748	16,997	2,765	191	919	P2	(2) CS16	Corner	108	533	236	380	814	2,698	O.K.
7.75				7,506	16,466	2,595	202	930	P2	(2) CS16	Corner	108	533	236	380	836	2,720	O.K.
4.75				4,600	10,092	975	332	1,060	P2	CMSTC16	Corner	108	533	236	380	1,095	2,979	O.K.

NOTES:

Allowable aspect ratio/1= 3.66												ω = 1.0		Roof DL (psf)= 23	Floor DL (psf)= 20	Wall DL (psf)= 16		
LINE: I	1ST STORY		Total Length (ft)= 29.166	Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 10.5		Calc A.B. N								
Least Horizontal Dimension (ft) 3.66			ω (min) 86.4		ω 85.1	w (EZ) 127.8	E.Z. Appl Major	Ld Spn(ft) 32	2*a (ft) 6	E.Z. P (lb) 232	plift Pressure (psf) = -13.872	Reduce for aspect ratio Y	Shear pier height(ft)= 10.5	Wind (lb) 3435	Seis (lb) 7534			
Load ω9	Trib w (ft) 16.00	I <sub>E</sub> *Seis 110.8	ω (min) 86.4	ω 85.1	w (EZ) 127.8	E.Z. Appl Major	Ld Spn(ft) 32	2*a (ft) 6	E.Z. P (lb) 232	plift Pressure (psf) = -13.872	Reduce for aspect ratio Y	Shear pier height(ft)= 10.5	Wind (lb) 3435	Seis (lb) 7534				
												above= 5029	Seis (lb) 9307					
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
4.75				8,599	15,915	1,137	1,095	2,979	P2	HDU8	Corner	172	482	319	344	2,666	6,090	O.K.
6.67				12,068	22,335	2,240	929	2,814	P2	HDU8	Corner	172	533	319	380	2,404	5,828	O.K.
5.25				9,504	17,591	1,389	814	2,698	P2	HDU8	Corner	172	533	319	380	2,360	5,784	O.K.
7.75				14,030	25,967	3,027	836	2,720	P2	HDU8	Corner	172	533	319	380	2,255	5,680	O.K.
4.75				8,599	15,915	1,137	1,095	2,979	P2	HDU8	Corner	172	482	319	344	2,666	6,090	O.K.

NOTES:

Allowable aspect ratio/1= 3.66												ω = 1.0		Roof DL (psf)= 23	Floor DL (psf)= 20	Wall DL (psf)= 16		
LINE: B & H	3RD STORY		Total Length (ft)= 23	Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9		Calc A.B. N								
Least Horizontal Dimension (ft) 3.66			ω (min) 136.0		ω 113.0	w (EZ) 165.6	E.Z. Appl Minor	Ld Spn(ft) 33	2*a (ft) 6	E.Z. P (lb) 29	plift Pressure (psf) = -11.334	Reduce for aspect ratio Y	Shear pier height(ft)= 9	Wind (lb) 2244	Seis (lb) 5287			
Load ω1	Trib w (ft) 16.50	I <sub>E</sub> *Seis 320.4	ω (min) 136.0	ω 113.0	w (EZ) 165.6	E.Z. Appl Minor	Ld Spn(ft) 33	2*a (ft) 6	E.Z. P (lb) 29	plift Pressure (psf) = -11.334	Reduce for aspect ratio Y	Shear pier height(ft)= 9	Wind (lb) 2244	Seis (lb) 5287				
												above= 2244	Seis (lb) 5287					
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
23.00				20,195	47,580	22,854			P1	CS16	Corner	98	365	230	260	-116	1,075	O.K.
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

Allowable aspect ratio/1= 3.66												ω = 1.0		Roof DL (psf)= 23	Floor DL (psf)= 20	Wall DL (psf)= 16		
LINE: B & H	2ND STORY		Total Length (ft)= 23	Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9		Calc A.B. N								
Least Horizontal Dimension (ft) 3.66			ω (min) 86.4		ω 91.7	w (EZ) 137.8	E.Z. Appl Minor	Ld Spn(ft) 33	2*a (ft) 6	E.Z. P (lb) 25	plift Pressure (psf) = -10.404	Reduce for aspect ratio Y	Shear pier height(ft)= 9	Wind (lb) 2244	Seis (lb) 5287			
Load ω5	Trib w (ft) 16.50	I <sub>E</sub> *Seis 217.8	ω (min) 86.4	ω 91.7	w (EZ) 137.8	E.Z. Appl Minor	Ld Spn(ft) 33	2*a (ft) 6	E.Z. P (lb) 25	plift Pressure (psf) = -10.404	Reduce for aspect ratio Y	Shear pier height(ft)= 9	Wind (lb) 2244	Seis (lb) 5287				
												above= 3782	Seis (lb) 8880					
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
23.00				34,039	79,917	22,854	-116	1,075	P3	CMSTC16	Corner	164	685	386	490	371	3,556	O.K.
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:



L. R. NELSON CONSULTING ENGINEERS



JOB NO. 729-086-241

DATE 04/25/24

PROJECT SNRHA BENNET PLAZA
SUBJECT SHEARWALLS

SHEET DESIGNED MS SECTION CHECKED KAB

Table for LINE: B & H 1ST STORY. Includes columns for Load, Trib w (ft), Ie\*Seis, omega (min), omega, w (EZ), E.Z. Appl, Ld Spn(ft), 2\*a (ft), E.Z. P (lb), uplift Pressure (psf), Wall Height, h (ft), Calc A.B., Wind (lb), Seis (lb), Shear-Wall Length (ft), RoofDL, FloorDL, OtherDL, OTM-Wind, OTM-Seismic, 0.6\*RM, Tension From Above: Wind, Tension From Above: Seismic, Wall Type, Holdown Strap, HD Capacity Rating, Wind Shear, Wind Wall Capacity, Seismic Shear, Seismic Wall Capacity, Tension: Wind, Tension: Seismic, HD Capacity.

NOTES:

Table for LINE: B1 3RD STORY. Includes columns for Load, Trib w (ft), Ie\*Seis, omega (min), omega, w (EZ), E.Z. Appl, Ld Spn(ft), 2\*a (ft), E.Z. P (lb), uplift Pressure (psf), Wall Height, h (ft), Calc A.B., Wind (lb), Seis (lb), Shear-Wall Length (ft), RoofDL, FloorDL, OtherDL, OTM-Wind, OTM-Seismic, 0.6\*RM, Tension From Above: Wind, Tension From Above: Seismic, Wall Type, Holdown Strap, HD Capacity Rating, Wind Shear, Wind Wall Capacity, Seismic Shear, Seismic Wall Capacity, Tension: Wind, Tension: Seismic, HD Capacity.

NO HOLDOWN REQUIRED

Table for LINE: B1 2ND STORY. Includes columns for Load, Trib w (ft), Ie\*Seis, omega (min), omega, w (EZ), E.Z. Appl, Ld Spn(ft), 2\*a (ft), E.Z. P (lb), uplift Pressure (psf), Wall Height, h (ft), Calc A.B., Wind (lb), Seis (lb), Shear-Wall Length (ft), RoofDL, FloorDL, OtherDL, OTM-Wind, OTM-Seismic, 0.6\*RM, Tension From Above: Wind, Tension From Above: Seismic, Wall Type, Holdown Strap, HD Capacity Rating, Wind Shear, Wind Wall Capacity, Seismic Shear, Seismic Wall Capacity, Tension: Wind, Tension: Seismic, HD Capacity.

NO HOLDOWN REQUIRED

Table for LINE: B1 1ST STORY. Includes columns for Load, Trib w (ft), Ie\*Seis, omega (min), omega, w (EZ), E.Z. Appl, Ld Spn(ft), 2\*a (ft), E.Z. P (lb), uplift Pressure (psf), Wall Height, h (ft), Calc A.B., Wind (lb), Seis (lb), Shear-Wall Length (ft), RoofDL, FloorDL, OtherDL, OTM-Wind, OTM-Seismic, 0.6\*RM, Tension From Above: Wind, Tension From Above: Seismic, Wall Type, Holdown Strap, HD Capacity Rating, Wind Shear, Wind Wall Capacity, Seismic Shear, Seismic Wall Capacity, Tension: Wind, Tension: Seismic, HD Capacity.

NOTES:



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PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET DESIGNED MS  
SECTION CHECKED KAB

Allowable aspect ratio= 3.5												ω = 1.0				Roof DL (psf)= 23		Floor DL (psf)= 20		Wall DL (psf)= 16	
LINE: G1 3RD STORY Total Length (ft)= 69.333 Least Horizontal Dimension (ft) 3.66										Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9		Calc A.B. N					
Load Trib w (ft) I <sub>e</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =										Reduce for aspect ratio Y		Shear pier height(ft)= 9		above=		Wind (lb) Seis (lb)					
ω1 16.75 320.4 136.0 113.0 165.6 Minor 33.5 6 28 -11.334														Total=		2278 5367					
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w' (ft) Floor <sub>DL</sub> 'w' (ft) Other <sub>DL</sub> 'w' (plf) O <sub>TM</sub> -Wind (ft-lb) O <sub>TM</sub> -Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																					
21.33 6.308 14,862 19,661 P1 Corner 33 365 77 260 -626 -225																					
24.00 7,097 16,720 24,884 P1 Corner 33 365 77 260 -741 -340																					
24.00 7,097 16,720 24,884 P1 Corner 33 365 77 260 -741 -340																					

NOTES:  
NO HOLDOWN REQUIRED

LINE: G1 2ND STORY Total Length (ft)= 69.333 Least Horizontal Dimension (ft) 3.66												Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9		Calc A.B. N			
Load Trib w (ft) I <sub>e</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =										Reduce for aspect ratio Y		Shear pier height(ft)= 9		above=		Wind (lb) Seis (lb)					
ω5 16.75 217.8 86.4 91.7 137.8 Minor 33.5 6 25 -10.404														Total=		2278 5367					
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w' (ft) Floor <sub>DL</sub> 'w' (ft) Other <sub>DL</sub> 'w' (plf) O <sub>TM</sub> -Wind (ft-lb) O <sub>TM</sub> -Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																					
21.33 10,630 24,962 19,661 -626 -225 P1 Corner 55 365 130 260 -1,049 24																					
24.00 11,959 28,083 24,884 -741 -340 P1 Corner 55 365 130 260 -1,280 -207																					
24.00 11,959 28,083 24,884 -741 -340 P1 Corner 55 365 130 260 -1,280 -207																					

NOTES:  
NO HOLDOWN REQUIRED

LINE: G1 1ST STORY Total Length (ft)= 59.25 Least Horizontal Dimension (ft) 3.66												Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9		Calc A.B. N			
Load Trib w (ft) I <sub>e</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =										Reduce for aspect ratio Y		Shear pier height(ft)= 9		above=		Wind (lb) Seis (lb)					
ω9 16.75 110.8 86.4 85.1 127.8 Minor 33.5 6 23 -9.654														Total=		3782 8880					
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w' (ft) Floor <sub>DL</sub> 'w' (ft) Other <sub>DL</sub> 'w' (plf) O <sub>TM</sub> -Wind (ft-lb) O <sub>TM</sub> -Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																					
11.25 8,938 18,346 5,468 -1,049 24 P2 HTT5 Corner 88 533 181 380 -741 1,168 O.K.																					
24.00 19,068 39,137 24,884 -1,280 -207 P2 HTT5 Corner 88 533 181 380 -1,522 387 O.K.																					
24.00 19,068 39,137 24,884 -1,280 -207 P2 HTT5 Corner 88 533 181 380 -1,522 387 O.K.																					

NOTES:

LINE: C & G 3RD STORY Total Length (ft)= 28 Least Horizontal Dimension (ft) 3.66												Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9		Calc A.B. N			
Load Trib w (ft) I <sub>e</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =										Reduce for aspect ratio Y		Shear pier height(ft)= 9		above=		Wind (lb) Seis (lb)					
ω1 19.50 320.4 136.0 113.0 165.6 Major 39 6 292 -16.29														Total=		2652 6248					
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w' (ft) Floor <sub>DL</sub> 'w' (ft) Other <sub>DL</sub> 'w' (plf) O <sub>TM</sub> -Wind (ft-lb) O <sub>TM</sub> -Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																					
28.00 23,867 56,231 33,870 P1 CS16 Corner 95 365 223 260 -357 799 O.K.																					

NOTES:



JOB NO. 729-086-241

DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET DESIGNED MS SECTION CHECKED KAB

Roof DL (psf)= 23  
Floor DL (psf)= 20  
Wall DL (psf)= 16

Allowable aspect ratio= 3.5       $\omega = 1.0$

Table for LINE: C & G 2ND STORY. Includes columns for Load, Trib w, Seis, and various capacity ratings (Wind, Seismic, HD Capacity).

NOTES:

Table for LINE: C & G 1ST STORY. Includes columns for Load, Trib w, Seis, and various capacity ratings (Wind, Seismic, HD Capacity).

NOTES:

Table for LINE: D 3RD STORY. Includes columns for Load, Trib w, Seis, and various capacity ratings (Wind, Seismic, HD Capacity).

NOTES:

Table for LINE: D 2ND STORY. Includes columns for Load, Trib w, Seis, and various capacity ratings (Wind, Seismic, HD Capacity).

NOTES:

**REVISED**

**JOB NO.** 729-086-241  
**DATE** 04/25/24

**PROJECT** SNRHA BENNET PLAZA  
**SUBJECT** SHEARWALLS  
**SHEET** DESIGNED MS  
**SECTION** CHECKED KAB

Roof DL (psf)= 23  
 Floor DL (psf)= 20  
 Wall DL (psf)= 16

Allowable aspect ratio/1= 3.5      ω = 1.0

LINE: D		1ST STORY		Total Length (ft)= 33.25			Effective Shearwall Length Factor: 1.00			Wall Height, h (ft)= 9			Calc A.B. N					
Least Horizontal Dimension (ft)							3.66		Reduce for aspect ratio Y			above= 3157 4127						
Load	Trib w (ft)	I <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	Clift Pressure (psf) =	Shear pier height(ft)= 9							
ω9	5.25	110.8	86.4	85.1	127.8	Major	10.5	6	183	-13.872	Wind (lb) Seis (lb)							
ω10	7.75	35.2	86.4	85.1	127.8		15.5	6	0	-9.654	Total= 4447 4981							
		0.0	0.0	0.0	0.0				0									
Shear- Wall Length (ft)	Roof <sub>DL</sub> ' w (ft)	Floor <sub>DL</sub> ' w (ft)	Other <sub>DL</sub> ' w (pif)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (pif)	Wind Wall Capacity (pif)	Seismic Shear (pif)	Seismic Wall Capacity (pif)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
4.00				4,815	5,393	691	988	1,432	P1	HDU5	Corner	134	324	150	231	2,018	2,607	O.K.
4.00				4,815	5,393	691	988	1,432	P1	HDU5	Corner	134	324	150	231	2,018	2,607	O.K.
9.50				11,435	12,809	3,899	512	956	P1	HDU5	Corner	134	365	150	260	1,306	1,894	O.K.
4.00				4,815	5,393	691	988	1,432	P1	HDU5	Corner	134	324	150	231	2,018	2,607	O.K.
7.25				8,727	9,776	2,271	707	1,151	P1	HDU5	Corner	134	365	150	260	1,597	2,186	O.K.
4.50				5,417	6,068	875	944	1,388	P1	HDU5	Corner	134	365	150	260	1,954	2,542	O.K.

**NOTES:**

LINE: F1		3RD STORY		Total Length (ft)= 33.25			Effective Shearwall Length Factor: 1.00			Wall Height, h (ft)= 9			Calc A.B. N					
Least Horizontal Dimension (ft)							3.66		Reduce for aspect ratio Y			above= 1768 2439						
Load	Trib w (ft)	I <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	Clift Pressure (psf) =	Shear pier height(ft)= 9							
ω1	5.25	320.4	136.0	113.0	165.6	Major	10.5	6	226	-16.29	Wind (lb) Seis (lb)							
ω2	7.75	97.6	136.0	113.0	165.6		15.5	6	0	-11.334	Total= 1768 2439							
		0.0	0.0	0.0	0.0				0									
Shear- Wall Length (ft)	Roof <sub>DL</sub> ' w (ft)	Floor <sub>DL</sub> ' w (ft)	Other <sub>DL</sub> ' w (pif)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (pif)	Wind Wall Capacity (pif)	Seismic Shear (pif)	Seismic Wall Capacity (pif)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
4.00				1,914	2,640	691			P1	CS16	Corner	53	324	73	231	306	487	O.K.
4.00				1,914	2,640	691			P1	CS16	Corner	53	324	73	231	306	487	O.K.
9.50				4,546	6,271	3,899			P1	CS16	Corner	53	365	73	260	68	250	O.K.
4.00				1,914	2,640	691			P1	CS16	Corner	53	324	73	231	306	487	O.K.
7.25				3,469	4,786	2,271			P1	CS16	Corner	53	365	73	260	165	347	O.K.
4.50				2,153	2,970	875			P1	CS16	Corner	53	365	73	260	284	466	O.K.

**NOTES:**

LINE: F1		2ND STORY		Total Length (ft)= 33.25			Effective Shearwall Length Factor: 1.00			Wall Height, h (ft)= 9			Calc A.B. N					
Least Horizontal Dimension (ft)							3.66		Reduce for aspect ratio Y			above= 1768 2439						
Load	Trib w (ft)	I <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	Clift Pressure (psf) =	Shear pier height(ft)= 9							
ω5	5.25	217.8	86.4	91.7	137.8	Major	10.5	6	197	-14.952	Wind (lb) Seis (lb)							
ω6	7.75	70.4	86.4	91.7	137.8		15.5	6	0	-10.404	Total= 1768 2439							
		0.0	0.0	0.0	0.0				0									
Shear- Wall Length (ft)	Roof <sub>DL</sub> ' w (ft)	Floor <sub>DL</sub> ' w (ft)	Other <sub>DL</sub> ' w (pif)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (pif)	Wind Wall Capacity (pif)	Seismic Shear (pif)	Seismic Wall Capacity (pif)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
4.00				3,419	4,469	691	306	487	P1	CS16	Corner	95	324	124	231	988	1,432	O.K.
4.00				3,419	4,469	691	306	487	P1	CS16	Corner	95	324	124	231	988	1,432	O.K.
9.50				8,119	10,613	3,899	68	250	P1	CS16	Corner	95	365	124	260	512	956	O.K.
4.00				3,419	4,469	691	306	487	P1	CS16	Corner	95	324	124	231	988	1,432	O.K.
7.25				6,196	8,099	2,271	165	347	P1	CS16	Corner	95	365	124	260	707	1,151	O.K.
4.50				3,846	5,027	875	284	466	P1	CS16	Corner	95	365	124	260	944	1,388	O.K.

**NOTES:**

LINE: F1		1ST STORY		Total Length (ft)= 32.5			Effective Shearwall Length Factor: 1.00			Wall Height, h (ft)= 9			Calc A.B. N					
Least Horizontal Dimension (ft)							3.66		Reduce for aspect ratio Y			above= 3157 4127						
Load	Trib w (ft)	I <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	Clift Pressure (psf) =	Shear pier height(ft)= 9							
ω9	5.25	110.8	86.4	85.1	127.8	Major	10.5	6	183	-13.872	Wind (lb) Seis (lb)							
ω10	7.75	35.2	86.4	85.1	127.8		15.5	6	0	-9.654	Total= 4447 4981							
		0.0	0.0	0.0	0.0				0									
Shear- Wall Length (ft)	Roof <sub>DL</sub> ' w (ft)	Floor <sub>DL</sub> ' w (ft)	Other <sub>DL</sub> ' w (pif)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (pif)	Wind Wall Capacity (pif)	Seismic Shear (pif)	Seismic Wall Capacity (pif)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
3.25				4,002	4,483	456	988	1,432	P1	HDU5	Corner	137	284	153	188	2,079	2,671	O.K.
4.00				4,926	5,518	691	988	1,432	P1	HDU5	Corner	137	324	153	231	2,046	2,638	O.K.
9.50				11,699	13,105	3,899	512	956	P1	HDU5	Corner	137	365	153	260	1,333	1,925	O.K.
4.00				4,926	5,518	691	988	1,432	P1	HDU5	Corner	137	324	153	231	2,046	2,638	O.K.
7.25				8,928	10,001	2,271	707	1,151	P1	HDU5	Corner	137	365	153	260	1,625	2,217	O.K.
4.50				5,542	6,208	875	944	1,388	P1	HDU5	Corner	137	365	153	260	1,981	2,573	O.K.

**NOTES:**



JOB NO. 729-086-241  
DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET \_\_\_\_\_ SECTION \_\_\_\_\_  
DESIGNED MS CHECKED KAB

LINE: <u>1</u> <u>3RD</u> STORY Total Length (ft)= 17.5 Least Horizontal Dimension (ft) 3.66										Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N				
Load	Trib w (ft)	I <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Reduce for aspect ratio		Wind (lb) Seis (lb)					
ω4	17.50	205.9	136.0	113.0	165.6	Major	35	6	289	-16.29	Y	above=		2380	3603			
		0.0	0.0	0.0	0.0				0		9	Total=		2380	3603			
Shear-Wall Length (ft)	Roof <sub>DL</sub> w (ft)	Floor <sub>DL</sub> w (ft)	Other <sub>DL</sub> w (plf)	OTM-Wind (ft-lb)	OTM-Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
4.75				5,814	8,802	975			P1	CS16	Corner	136	365	206	260	1,019	1,648	O.K.
4.00				4,896	7,412	691			P1	CS16	Corner	136	324	206	231	1,051	1,680	O.K.
4.00				4,896	7,412	691			P1	CS16	Corner	136	324	206	231	1,051	1,680	O.K.
4.75				5,814	8,802	975			P1	CS16	Corner	136	365	206	260	1,019	1,648	O.K.

NOTES: SEE ADDITIONAL CALC

LINE: <u>1</u> <u>2ND</u> STORY Total Length (ft)= 17.5 Least Horizontal Dimension (ft) 3.66										Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N				
Load	Trib w (ft)	I <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Reduce for aspect ratio		Wind (lb) Seis (lb)					
ω8	17.50	138.6	86.4	91.7	137.8	Major	35	6	253	-14.952	Y	above=		2380	3603			
		0.0	0.0	0.0	0.0				0		9	Total=		4237	6029			
Shear-Wall Length (ft)	Roof <sub>DL</sub> w (ft)	Floor <sub>DL</sub> w (ft)	Other <sub>DL</sub> w (plf)	OTM-Wind (ft-lb)	OTM-Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
4.75				10,351	14,729	975	1,019	1,648	P2	CMSTC16	Corner	242	533	345	380	2,993	4,543	O.K.
4.00				8,717	12,403	691	1,051	1,680	P3	CMST14	Corner	242	609	345	436	3,058	4,608	O.K.
4.00				8,717	12,403	691	1,051	1,680	P3	CMST14	Corner	242	609	345	436	3,058	4,608	O.K.
4.75				10,351	14,729	975	1,019	1,648	P2	CMSTC16	Corner	242	533	345	380	2,993	4,543	O.K.

NOTES:

LINE: <u>1</u> <u>1ST</u> STORY Total Length (ft)= 17.5 Least Horizontal Dimension (ft) 3.66										Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N				
Load	Trib w (ft)	I <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Reduce for aspect ratio		Wind (lb) Seis (lb)					
ω12	17.50	71.2	86.4	85.1	127.8	Major	35	6	235	-13.872	Y	above=		4237	6029			
		0.0	0.0	0.0	0.0				0		9	Total=		5961	7276			
Shear-Wall Length (ft)	Roof <sub>DL</sub> w (ft)	Floor <sub>DL</sub> w (ft)	Other <sub>DL</sub> w (plf)	OTM-Wind (ft-lb)	OTM-Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
4.75				14,562	17,774	975	2,993	4,543	P3	H DU11	Corner	341	685	416	490	5,853	8,080	O.K.
4.00				12,263	14,967	691	3,058	4,608	P3	H DU11	Corner	341	609	416	436	5,950	8,177	O.K.
4.00				12,263	14,967	691	3,058	4,608	P3	H DU11	Corner	341	609	416	436	5,950	8,177	O.K.
4.75				14,562	17,774	975	2,993	4,543	P3	H DU11	Corner	341	685	416	490	5,853	8,080	O.K.

NOTES:

LINE: <u>3</u> <u>3RD</u> STORY Total Length (ft)= 63.5 Least Horizontal Dimension (ft) 3.66										Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N				
Load	Trib w (ft)	I <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Reduce for aspect ratio		Wind (lb) Seis (lb)					
ω4	16.25	205.9	136.0	113.0	165.6	Minor	32.5	6	29	-11.334	Y	above=		4148	5729			
ω3	14.25	167.2	136.0	113.0	165.6		28.5	6	0	-11.334	9	Total=		4148	5729			
		0.0	0.0	0.0	0.0				0									
Shear-Wall Length (ft)	Roof <sub>DL</sub> w (ft)	Floor <sub>DL</sub> w (ft)	Other <sub>DL</sub> w (plf)	OTM-Wind (ft-lb)	OTM-Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				18,518	25,577	42,867			P1		Corner	65	365	90	260	-773	-549	
32.00				18,812	25,983	44,239			P1		Corner	65	365	90	260	-795	-571	
											Corner							
											Corner							

NOTES: **NO HOLDOWN REQUIRED**



JOB NO. 729-086-241  
DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET \_\_\_\_\_ SECTION \_\_\_\_\_  
DESIGNED MS CHECKED KAB

Allowable aspect ratio/1= <u>3.5</u>											$\omega = 1.0$			Roof DL (psf)= <u>23</u>	
Effective Shearwall Length Factor: <u>1.00</u>											Wall Height, h (ft)= <u>9</u>		Floor DL (psf)= <u>20</u>		
Least Horizontal Dimension (ft) <u>3.66</u>											Reduce for aspect ratio <u>Y</u>		Wall DL (psf)= <u>16</u>		
LINE: <u>3</u> <u>2ND</u> STORY Total Length (ft)= <u>63.5</u>											Shear pier height(ft)= <u>9</u>		Calc A.B. <u>N</u>		

Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Wind (lb)	Seis (lb)
$\omega 8$	16.25	138.6	86.4	91.7	137.8	Minor	32.5	6	26	-10.404	4148	5729
$\omega 7$	14.25	115.5	86.4	91.7	137.8		28.5	6	0	-10.404		
		0.0	0.0	0.0	0.0				0		6970	9627

Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				31,119	42,981	42,867	-773	-549	P1		Corner	110	365	152	260	-1,146	-545	
32.00				31,613	43,663	44,239	-795	-571	P1		Corner	110	365	152	260	-1,189	-588	
											Corner							
											Corner							
											Corner							
											Corner							

NOTES: **NO HOLDOWN REQUIRED**

LINE: <u>3</u> <u>1ST</u> STORY Total Length (ft)= <u>63.5</u>											Wall Height, h (ft)= <u>9</u>		Calc A.B. <u>N</u>	
Effective Shearwall Length Factor: <u>1.00</u>											Reduce for aspect ratio <u>Y</u>			
Least Horizontal Dimension (ft) <u>3.66</u>											Shear pier height(ft)= <u>9</u>			

Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Wind (lb)	Seis (lb)
$\omega 12$	16.25	71.2	86.4	85.1	127.8	Minor	32.5	6	24	-9.654	6970	9627
$\omega 11$	14.25	57.7	86.4	85.1	127.8		28.5	6	0	-9.654		
		0.0	0.0	0.0	0.0				0		9605	11607

Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				42,884	51,822	42,867	-1,146	-545	P1		Corner	151	365	183	260	-1,145	-261	
32.00				43,565	52,645	44,239	-1,189	-588	P1		Corner	151	365	183	260	-1,210	-326	
											Corner							
											Corner							
											Corner							
											Corner							

NOTES: **NO HOLDOWN REQUIRED**

LINE: <u>5</u> <u>3RD</u> STORY Total Length (ft)= <u>31.5</u>											Wall Height, h (ft)= <u>9</u>		Calc A.B. <u>N</u>	
Effective Shearwall Length Factor: <u>1.00</u>											Reduce for aspect ratio <u>Y</u>			
Least Horizontal Dimension (ft) <u>3.66</u>											Shear pier height(ft)= <u>9</u>			

Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Wind (lb)	Seis (lb)
$\omega 3$	27.50	167.2	136.0	113.0	165.6	Minor	55	6	17	-11.334	3740	4599
		0.0	0.0	0.0	0.0				0			
		0.0	0.0	0.0	0.0				0			

Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				33,658	41,389	42,867			P1		Corner	119	365	146	260	-292	-47	
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES: **NO HOLDOWN REQUIRED**

LINE: <u>5</u> <u>2ND</u> STORY Total Length (ft)= <u>31.5</u>											Wall Height, h (ft)= <u>9</u>		Calc A.B. <u>N</u>	
Effective Shearwall Length Factor: <u>1.00</u>											Reduce for aspect ratio <u>Y</u>			
Least Horizontal Dimension (ft) <u>3.66</u>											Shear pier height(ft)= <u>9</u>			

Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Wind (lb)	Seis (lb)
$\omega 7$	27.50	115.5	86.4	91.7	137.8	Minor	55	6	15	-10.404	3740	4599
		0.0	0.0	0.0	0.0				0			
		0.0	0.0	0.0	0.0				0			

Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				56,491	69,970	42,867	-292	-47	P1	CS16	Corner	199	365	247	260	140	813	O.K.
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

L. R. NELSON CONSULTING ENGINEERS



JOB NO. 729-086-241

DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET DESIGNED MS SECTION CHECKED KAB

Roof DL (psf)= 23  
Floor DL (psf)= 20  
Wall DL (psf)= 16

Allowable aspect ratio= 3.5

ω = 1.0

LINE:	5	1ST STORY	Total Length (ft)=	31.5	Effective Shearwall Length Factor:				1.00	Wall Height, h (ft)=	9	Calc A.B.	N					
			Least Horizontal Dimension (ft)	3.66						Reduce for aspect ratio	Y							
Load	Trib w (ft)	l <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =								
ω1	27.50	57.7	86.4	85.1	127.8	Minor	55	6	14	-9.654								
			0.0	0.0	0.0				0		above= 6277 7774							
			0.0	0.0	0.0				0		Total= 8653 9362							
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				77,875	84,260	42,867	140	813	P2	HTT5	Corner	275	533	297	380	1,251	2,128	O.K.
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

LINE:	5.1&5.2	3RD STORY	Total Length (ft)=	31.5	Effective Shearwall Length Factor:				1.00	Wall Height, h (ft)=	9	Calc A.B.	N					
			Least Horizontal Dimension (ft)	3.66						Reduce for aspect ratio	Y							
Load	Trib w (ft)	l <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =								
ω3	27.50	167.2	136.0	113.0	165.6	Minor	55	6	17	-11.334								
			0.0	0.0	0.0				0		above= 3740 4599							
			0.0	0.0	0.0				0		Total= 3740 4599							
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				33,658	41,389	42,867			P1		Corner	119	365	146	260	-292	-47	
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

NO HOLDOWN REQUIRED

LINE:	5.1&5.2	2ND STORY	Total Length (ft)=	31.5	Effective Shearwall Length Factor:				1.00	Wall Height, h (ft)=	9	Calc A.B.	N					
			Least Horizontal Dimension (ft)	3.66						Reduce for aspect ratio	Y							
Load	Trib w (ft)	l <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =								
ω7	27.50	115.5	86.4	91.7	137.8	Minor	55	6	15	-10.404								
			0.0	0.0	0.0				0		above= 3740 4599							
			0.0	0.0	0.0				0		Total= 6277 7774							
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				56,491	69,970	42,867	-292	-47	P1	CS16	Corner	199	365	247	260	140	813	O.K.
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

LINE:	5.1&5.2	1ST STORY	Total Length (ft)=	31.5	Effective Shearwall Length Factor:				1.00	Wall Height, h (ft)=	9	Calc A.B.	N					
			Least Horizontal Dimension (ft)	3.66						Reduce for aspect ratio	Y							
Load	Trib w (ft)	l <sub>e</sub> *Seis	ω (min)	ω	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =								
ω1	27.50	57.7	86.4	85.1	127.8	Minor	55	6	14	-9.654								
			0.0	0.0	0.0				0		above= 6277 7774							
			0.0	0.0	0.0				0		Total= 8653 9362							
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
31.50				77,875	84,260	42,867	140	813	P2	HTT5	Corner	275	533	297	380	1,251	2,128	O.K.
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:



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PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET DESIGNED MS SECTION CHECKED KAB

Allowable aspect ratio= 3.5												ω = 1.0		Roof DL (psf)= 23		Floor DL (psf)= 20		Wall DL (psf)= 16					
LINE: 6 3RD STORY Total Length (ft)= 31.5												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N							
Least Horizontal Dimension (ft) 3.66														Reduce for aspect ratio Y									
Load Trib w (ft) I <sub>e</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =														Shear pier height(ft)= 9									
ω3 26.25 167.2 136.0 113.0 165.6 Minor 52.5 6 18 -11.334																							
0.0 0.0 0.0 0.0 0.0																above=		Wind (lb) Seis (lb)					
0.0 0.0 0.0 0.0 0.0																Total=		3570 4390					
Shear-Wall Length (ft) Roof <sub>DL</sub> Floor <sub>DL</sub> Other <sub>DL</sub> O <sub>TM</sub> -Wind O <sub>TM</sub> -Seismic 0.6*RM Tension From Above: Wind Tension From Above: Seismic Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																							
31.50 32,128 39,507 42,867 P1 Corner 113 365 139 260 -341 -107																							

NOTES:  
NO HOLDOWN REQUIRED

LINE: 6 2ND STORY Total Length (ft)= 31.5												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N							
Least Horizontal Dimension (ft) 3.66														Reduce for aspect ratio Y									
Load Trib w (ft) I <sub>e</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =														Shear pier height(ft)= 9									
ω7 26.25 115.5 86.4 91.7 137.8 Minor 52.5 6 16 -10.404																							
0.0 0.0 0.0 0.0 0.0																above=		Wind (lb) Seis (lb)					
0.0 0.0 0.0 0.0 0.0																Total=		5993 7421					
Shear-Wall Length (ft) Roof <sub>DL</sub> Floor <sub>DL</sub> Other <sub>DL</sub> O <sub>TM</sub> -Wind O <sub>TM</sub> -Seismic 0.6*RM Tension From Above: Wind Tension From Above: Seismic Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																							
31.50 53,936 66,789 42,867 P1 CS16 Corner 190 365 236 260 351 759 O.K.																							

NOTES:

LINE: 6 1ST STORY Total Length (ft)= 31.5												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N							
Least Horizontal Dimension (ft) 3.66														Reduce for aspect ratio Y									
Load Trib w (ft) I <sub>e</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =														Shear pier height(ft)= 9									
ω11 26.25 57.7 86.4 85.1 127.8 Minor 52.5 6 15 -9.654																							
0.0 0.0 0.0 0.0 0.0																above=		Wind (lb) Seis (lb)					
0.0 0.0 0.0 0.0 0.0																Total=		8261 8937					
Shear-Wall Length (ft) Roof <sub>DL</sub> Floor <sub>DL</sub> Other <sub>DL</sub> O <sub>TM</sub> -Wind O <sub>TM</sub> -Seismic 0.6*RM Tension From Above: Wind Tension From Above: Seismic Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																							
31.50 74,348 80,430 42,867 P2 HTT5 Corner 262 533 284 380 999 1,192 O.K.																							

NOTES:

LINE: 6.1&6.2 3RD STORY Total Length (ft)= 31.5												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N							
Least Horizontal Dimension (ft) 3.66														Reduce for aspect ratio Y									
Load Trib w (ft) I <sub>e</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =														Shear pier height(ft)= 9									
ω3 26.25 167.2 136.0 113.0 165.6 Minor 52.5 6 18 -11.334																							
0.0 0.0 0.0 0.0 0.0																above=		Wind (lb) Seis (lb)					
0.0 0.0 0.0 0.0 0.0																Total=		3570 4390					
Shear-Wall Length (ft) Roof <sub>DL</sub> Floor <sub>DL</sub> Other <sub>DL</sub> O <sub>TM</sub> -Wind O <sub>TM</sub> -Seismic 0.6*RM Tension From Above: Wind Tension From Above: Seismic Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																							
31.50 32,128 39,507 42,867 P1 Corner 113 365 139 260 -341 -107																							

NOTES:  
NO HOLDOWN REQUIRED





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SHEET DESIGNED MS SECTION CHECKED KAB

Roof DL (psf)= 23
Floor DL (psf)= 20
Wall DL (psf)= 16

Allowable aspect ratio= 3.5

omega = 1.0

Table for LINE: 6.1&6.2 2ND STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, plift Pressure, Wall Height, Shear pier height, Calc A.B., and various capacity ratings (Wind, Seismic, HD).

Table for LINE: 6.1&6.2 1ST STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, plift Pressure, Wall Height, Shear pier height, Calc A.B., and various capacity ratings (Wind, Seismic, HD).

Table for LINE: 7 3RD STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, plift Pressure, Wall Height, Shear pier height, Calc A.B., and various capacity ratings (Wind, Seismic, HD).

NO HANDOWN REQUIRED

Table for LINE: 7 2ND STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, plift Pressure, Wall Height, Shear pier height, Calc A.B., and various capacity ratings (Wind, Seismic, HD).

NOTES:

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SHEET DESIGNED MS SECTION CHECKED KAB

Roof DL (psf)= 23
Floor DL (psf)= 20
Wall DL (psf)= 16

Allowable aspect ratio= 3.5 omega = 1.0

Table for LINE 7 1ST STORY. Columns include Load, Trib w (ft), Seis, omega, w (EZ), E.Z. Appl, Ld Spn(ft), 2\*a (ft), E.Z. P (lb), uplift Pressure (psf), Wall Height, Calc A.B., Shear pier height, Wind Shear, Wind Wall Capacity, Seismic Shear, Seismic Wall Capacity, Tension: Wind, Tension: Seismic, HD Capacity. Includes notes on corner capacity.

NOTES: NO HANDOWN REQUIRED

Table for LINE 7.1&7.2 3RD STORY. Columns include Load, Trib w (ft), Seis, omega, w (EZ), E.Z. Appl, Ld Spn(ft), 2\*a (ft), E.Z. P (lb), uplift Pressure (psf), Wall Height, Calc A.B., Shear pier height, Wind Shear, Wind Wall Capacity, Seismic Shear, Seismic Wall Capacity, Tension: Wind, Tension: Seismic, HD Capacity. Includes notes on corner capacity.

NOTES: NO HANDOWN REQUIRED

Table for LINE 7.1&7.2 2ND STORY. Columns include Load, Trib w (ft), Seis, omega, w (EZ), E.Z. Appl, Ld Spn(ft), 2\*a (ft), E.Z. P (lb), uplift Pressure (psf), Wall Height, Calc A.B., Shear pier height, Wind Shear, Wind Wall Capacity, Seismic Shear, Seismic Wall Capacity, Tension: Wind, Tension: Seismic, HD Capacity. Includes notes on corner capacity.

NOTES: NO HANDOWN REQUIRED

Table for LINE 7.1&7.2 1ST STORY. Columns include Load, Trib w (ft), Seis, omega, w (EZ), E.Z. Appl, Ld Spn(ft), 2\*a (ft), E.Z. P (lb), uplift Pressure (psf), Wall Height, Calc A.B., Shear pier height, Wind Shear, Wind Wall Capacity, Seismic Shear, Seismic Wall Capacity, Tension: Wind, Tension: Seismic, HD Capacity. Includes notes on corner capacity.

NOTES: NO HANDOWN REQUIRED

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Table for LINE: 8 3RD STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, uplift Pressure, Wall Height, Shear pier height, and Capacity (Wind, Seismic, HD). Also includes Allowable aspect ratio and Calc A.B.

NOTES:

Table for LINE: 8 2ND STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, uplift Pressure, Wall Height, Shear pier height, and Capacity (Wind, Seismic, HD). Also includes Allowable aspect ratio and Calc A.B.

NOTES:

Table for LINE: 8 1ST STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, uplift Pressure, Wall Height, Shear pier height, and Capacity (Wind, Seismic, HD). Also includes Allowable aspect ratio and Calc A.B.

NOTES:

Table for LINE: 8.1&8.2 2ND STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, uplift Pressure, Wall Height, Shear pier height, and Capacity (Wind, Seismic, HD). Also includes Allowable aspect ratio and Calc A.B.

NOTES:

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Allowable aspect ratio/1= 3.5												ω = 1.0		Roof DL (psf)= 23		Floor DL (psf)= 20		Wall DL (psf)= 16	
LINE: 8.1&8.2 1ST STORY Total Length (ft)= 16										Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N					
Least Horizontal Dimension (ft) 3.66												Reduce for aspect ratio Y							
Load Trib w (ft) I <sub>E</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =												Shear pier height(ft)= 9							
ω11 13.00 57.7 86.4 85.1 127.8 Major 26 6 227 -13.872												above= 1437 1501							
												Total= 2770 2252							
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w (ft) Floor <sub>DL</sub> 'w (ft) Other <sub>DL</sub> 'w (plf) OTM - Wind (ft-lb) OTM - Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																			
8.00 12,464 10,133 2,765 463 499 P1 LSTHD8 (C) Corner 173 365 141 260 1,675 1,420 O.K.																			
8.00 12,464 10,133 2,765 463 499 P1 LSTHD8 (C) Corner 173 365 141 260 1,675 1,420 O.K.																			

NOTES:

LINE: E & F 4TH STORY Total Length (ft)= 32												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 22.5		Calc A.B. N	
Least Horizontal Dimension (ft) 3.66												Reduce for aspect ratio Y					
Load Trib w (ft) I <sub>E</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =												Shear pier height(ft)= 22.5					
ω13 15.75 272.1 72.0 70.3 103.8 Major 31.5 6 182 -17.46												above= 1289 4286					
												Total= 1289 4286					
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w (ft) Floor <sub>DL</sub> 'w (ft) Other <sub>DL</sub> 'w (plf) OTM - Wind (ft-lb) OTM - Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																	
32.00 29,000 96,433 110,597 P1 Corner 40 365 134 260 -2,550 -443																	

NOTES:

NO HANDOWN REQUIRED

LINE: E & F 2ND STORY Total Length (ft)= 32												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N	
Least Horizontal Dimension (ft) 3.66												Reduce for aspect ratio Y					
Load Trib w (ft) I <sub>E</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =												Shear pier height(ft)= 9					
ω17 15.75 96.6 105.6 112.1 168.4 Major 31.5 6 306 -14.952												above= 1289 4286					
ω6 8.00 70.4 86.4 91.7 137.8 Major 16 6 0 -10.404												Total= 4093 6371					
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w (ft) Floor <sub>DL</sub> 'w (ft) Other <sub>DL</sub> 'w (plf) OTM - Wind (ft-lb) OTM - Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																	
32.00 36,841 57,337 44,239 -2,550 -443 P1 Corner 128 365 199 260 -2,781 -33																	

NOTES:

NO HANDOWN REQUIRED

LINE: E & F 1ST STORY Total Length (ft)= 32												Effective Shearwall Length Factor: 1.00		Wall Height, h (ft)= 9		Calc A.B. N	
Least Horizontal Dimension (ft) 3.66												Reduce for aspect ratio Y					
Load Trib w (ft) I <sub>E</sub> *Seis ω (min) ω w (EZ) E.Z. Appl Ld Spn(ft) 2*a (ft) E.Z. P (lb) uplift Pressure (psf) =												Shear pier height(ft)= 9					
ω19 15.75 48.3 105.6 104.0 156.3 Major 31.5 6 284 -13.872												above= 4093 6371					
ω10 8.00 35.2 86.4 85.1 127.8 Major 16 6 0 -9.654												Total= 6696 7413					
Shear-Wall Length (ft) Roof <sub>DL</sub> 'w (ft) Floor <sub>DL</sub> 'w (ft) Other <sub>DL</sub> 'w (plf) OTM - Wind (ft-lb) OTM - Seismic (ft-lb) 0.6*RM (ft-lb) Tension From Above: Wind (lb) Tension From Above: Seismic (lb) Wall Type Holdown Strap HD Capacity Rating Wind Shear (plf) Wind Wall Capacity (plf) Seismic Shear (plf) Seismic Wall Capacity (plf) Tension : Wind (lb) Tension : Seismic (lb) HD Capacity (lb)																	
32.00 60,264 66,719 44,239 -2,781 -33 P1 HTT5 Corner 209 365 232 260 -2,280 669 O.K.																	

NOTES:

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Table for LINE 2 3RD STORY. Includes columns for Load, Trib w, Seis, omega, w (EZ), E.Z. Appl, Ld Spn, 2\*a, E.Z. P, Uplift Pressure, Wall Height, Shear pier height, Calc A.B., Wind, and Seis. Values include 16.5, 3.66, 1.00, 22.5, 22.5, 22.5, 23, 20, 16.

NOTES: PERFORATED SWL - GROSS LENGTH 32.33 68% Full Ht. Shth'g  
Co = 1 Check Shear: WIND 267.67 OK SEIS 190.67 OK Check Tension: WIND 3000.11 SEIS 2556.57

Table for LINE 2 2ND STORY. Includes columns for Load, Trib w, Seis, omega, w (EZ), E.Z. Appl, Ld Spn, 2\*a, E.Z. P, Uplift Pressure, Wall Height, Shear pier height, Calc A.B., Wind, and Seis. Values include 31.333, 3.66, 1.00, 9, 9, 9, 23, 20, 16.

NOTES:

Table for LINE 2 1ST STORY. Includes columns for Load, Trib w, Seis, omega, w (EZ), E.Z. Appl, Ld Spn, 2\*a, E.Z. P, Uplift Pressure, Wall Height, Shear pier height, Calc A.B., Wind, and Seis. Values include 15, 3.66, 1.00, 9, 9, 9, 23, 20, 16.

NOTES:

Table for LINE 4 3RD STORY. Includes columns for Load, Trib w, Seis, omega, w (EZ), E.Z. Appl, Ld Spn, 2\*a, E.Z. P, Uplift Pressure, Wall Height, Shear pier height, Calc A.B., Wind, and Seis. Values include 15.5, 3.66, 1.00, 22.5, 22.5, 22.5, 23, 20, 16.

NOTES: PERFORATED SWL - GROSS LENGTH 32.33 68% Full Ht. Shth'g  
Co = 1 Check Shear: WIND 426 OK SEIS 304 OK Check Tension: WIND 5687.93 SEIS 5726.62



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Table for LINE 4 2ND STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, uplift Pressure, Wall Height, Shear pier height, Calc A.B., and Shear Wall Capacity details.

NOTES:

Table for LINE 4 1ST STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, uplift Pressure, Wall Height, Shear pier height, Calc A.B., and Shear Wall Capacity details.

NOTES:

Table for LINE 5.5 3RD STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, uplift Pressure, Wall Height, Shear pier height, Calc A.B., and Shear Wall Capacity details.

NOTES: PERFORATED SWL - GROSS LENGTH 32.33, 68% Full Ht. Shh'g, Co = 1, Check Shear: WIND 402.33 OK, SEIS 287.11 OK, Check Tension: WIND 5101.73, SEIS 5115.19

Table for LINE 5.5 2ND STORY. Includes columns for Load, Trib w, Seis, omega, w, E.Z. Appl, Ld Spn, 2\*a, E.Z. P, uplift Pressure, Wall Height, Shear pier height, Calc A.B., and Shear Wall Capacity details.

NOTES:



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 Roof DL (psf)= 23  
 Floor DL (psf)= 20  
 Wall DL (psf)= 16

Allowable aspect ratio= 3.5

 $\omega = 1.0$ 

LINE: 5.5		1ST STORY		Total Length (ft)=	17	Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9			Calc A.B. N					
				Least Horizontal Dimension (ft)		3.66												
Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Reduce for aspect ratio	Y	Wind (lb)	Seis (lb)				
$\omega 20$	33.00	23.7	105.6	104.0	156.3	Major	66	6	299	-13.872			8223	5776				
$\omega 15$	4.00	28.4	88.8	68.6	101.3		8	6	0	-9.654								
		0.0	0.0	0.0	0.0				0				above=					
													Total=	12228	6672			
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
8.50		8.25		55,028	30,026	6,698	8,667	7,385	P4	HDU14	Corner	719	895	392	640	14,353	10,130	O.K.
8.50		8.25		55,028	30,026	6,698	8,667	7,385	P4	HDU14	Corner	719	895	392	640	14,353	10,130	O.K.
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

LINE: 5.6		1ST STORY		Total Length (ft)=	13	Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9			Calc A.B. N					
				Least Horizontal Dimension (ft)		3.66												
Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Reduce for aspect ratio	Y	Wind (lb)	Seis (lb)				
$\omega 15$	4.00	28.4	88.8	68.6	101.3	Major	8	6	123	-13.872			397	114				
		0.0	0.0	0.0	0.0				0				above=					
		0.0	0.0	0.0	0.0				0				Total=	0				
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
6.75				1,856	531	1,968			P1		Corner	31	365	9	260	-17	-213	
6.25				1,718	492	1,688			P1		Corner	31	365	9	260	5	-191	
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

LINE:		STORY		Total Length (ft)=	0	Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)=			Calc A.B. N					
				Least Horizontal Dimension (ft)		3.66												
Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Reduce for aspect ratio	Y	Wind (lb)	Seis (lb)				
		0.0	0.0	0.0	0.0				0				0	0				
		0.0	0.0	0.0	0.0				0				above=					
		0.0	0.0	0.0	0.0				0				Total=	0				
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

LINE:		STORY		Total Length (ft)=	0	Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)=			Calc A.B. N					
				Least Horizontal Dimension (ft)		3.66												
Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =	Reduce for aspect ratio	Y	Wind (lb)	Seis (lb)				
		0.0	0.0	0.0	0.0				0				0	0				
		0.0	0.0	0.0	0.0				0				above=					
		0.0	0.0	0.0	0.0				0				Total=	0				
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:



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Allowable aspect ratio= 3.5											$\omega = 1.0$				Roof DL (psf)= 23 Floor DL (psf)= 20 Wall DL (psf)= 16			
LINE: 8	3RD STORY	Total Length (ft)= 0	Effective Shearwall Length Factor: 1.00								Wall Height, h (ft)= 9	Calc A.B.	N					
		Least Horizontal Dimension (ft) 3.66										Reduce for aspect ratio Y						
Load	Trib w (ft)	I <sub>e</sub> *Seis	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =			Shear pier height(ft)= 9					
$\omega$ 16	5.25	48.4	62.4	54.4	80.2	Major	10.5	6	110	-16.29				Wind (lb)	Seis (lb)			
		0.0	0.0	0.0	0.0									above=				
		0.0	0.0	0.0	0.0									Total=	396	254		
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

Allowable aspect ratio= 3.5											$\omega = 1.0$				Roof DL (psf)= 23 Floor DL (psf)= 20 Wall DL (psf)= 16			
LINE: 8	2ND STORY	Total Length (ft)= 0	Effective Shearwall Length Factor: 1.00								Wall Height, h (ft)= 9	Calc A.B.	N					
		Least Horizontal Dimension (ft) 3.66										Reduce for aspect ratio Y						
Load	Trib w (ft)	I <sub>e</sub> *Seis	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =			Shear pier height(ft)= 9					
$\omega$ 21	5.25	29.3	120.0	125.1	188.0	Major	10.5	6	269	-14.688				Wind (lb)	Seis (lb)			
		0.0	0.0	0.0	0.0									above=				
		0.0	0.0	0.0	0.0									Total=	1322	408		
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

Allowable aspect ratio= 3.5											$\omega = 1.0$				Roof DL (psf)= 23 Floor DL (psf)= 20 Wall DL (psf)= 16			
LINE: 8	1ST STORY	Total Length (ft)= 0	Effective Shearwall Length Factor: 1.00								Wall Height, h (ft)= 9	Calc A.B.	N					
		Least Horizontal Dimension (ft) 3.66										Reduce for aspect ratio Y						
Load	Trib w (ft)	I <sub>e</sub> *Seis	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =			Shear pier height(ft)= 9					
$\omega$ 22	5.25	16.1	100.8	99.3	149.2	Major	10.5	6	214	-13.872				Wind (lb)	Seis (lb)			
		0.0	0.0	0.0	0.0									above=				
		0.0	0.0	0.0	0.0									Total=	1322	408		
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

Allowable aspect ratio= 3.5											$\omega = 1.0$				Roof DL (psf)= 23 Floor DL (psf)= 20 Wall DL (psf)= 16			
LINE: 9	3RD STORY	Total Length (ft)= 8	Effective Shearwall Length Factor: 1.00								Wall Height, h (ft)= 9	Calc A.B.	N					
		Least Horizontal Dimension (ft) 3.66										Reduce for aspect ratio Y						
Load	Trib w (ft)	I <sub>e</sub> *Seis	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =			Shear pier height(ft)= 9					
$\omega$ 16	5.25	48.4	62.4	54.4	80.2	Major	10.5	6	110	-16.29				Wind (lb)	Seis (lb)			
		0.0	0.0	0.0	0.0									above=				
		0.0	0.0	0.0	0.0									Total=	396	254		
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w (ft)	Floor <sub>DL</sub> 'w (ft)	Other <sub>DL</sub> 'w (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
8.00				3,564	2,287	2,765			P1		Corner	50	365	32	260	100	-60	
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:





JOB NO. 729-086-241  
DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
SUBJECT SHEARWALLS

SHEET DESIGNED MS  
SECTION CHECKED KAB

Allowable aspect ratio= 3.5															$\omega = 1.0$		Roof DL (psf)= 23	
Effective Shearwall Length Factor: 1.00															Wall Height, h (ft)= 9	Calc A.B. N		
LINE: 9	2ND STORY					Total Length (ft)= 8	Least Horizontal Dimension (ft) 3.66						Reduce for aspect ratio Y			Floor DL (psf)= 20		
Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	Clift Pressure (psf) =				Shear pier height(ft)= 9	above=	Wind (lb)	Seis (lb)	
$\omega 21$	5.25	29.3	120.0	125.1	188.0	Major	10.5	6	269	-14.688					Total=	1322	408	
		0.0	0.0	0.0	0.0				0							396	254	
		0.0	0.0	0.0	0.0				0									
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
8.00				11,902	3,673	2,765	100	-60	P1		Corner	165	365	51	260	1,242	54	
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

Effective Shearwall Length Factor: 1.00															Wall Height, h (ft)= 9	Calc A.B. N		
LINE: 9	1ST STORY					Total Length (ft)= 8	Least Horizontal Dimension (ft) 3.66						Reduce for aspect ratio Y			Floor DL (psf)= 20		
Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	Clift Pressure (psf) =				Shear pier height(ft)= 9	above=	Wind (lb)	Seis (lb)	
$\omega 22$	5.25	16.1	100.8	99.3	149.2	Major	10.5	6	214	-13.872					Total=	1322	408	
		0.0	0.0	0.0	0.0				0							2057	493	
		0.0	0.0	0.0	0.0				0									
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
8.00				18,517	4,435	2,765	1,242	54	P1	STHD10 (C)	Corner	257	365	62	260	3,211	263	O.K.
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:

Effective Shearwall Length Factor: 1.00															Wall Height, h (ft)= 9	Calc A.B. N		
LINE: K	3RD STORY					Total Length (ft)= 10	Least Horizontal Dimension (ft) 3.66						Reduce for aspect ratio Y			Floor DL (psf)= 20		
Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	Clift Pressure (psf) =				Shear pier height(ft)= 9	above=	Wind (lb)	Seis (lb)	
$\omega 23$	9.75	31.0	62.4	54.4	80.2	Major	19.5	6	131	-16.29					Total=	661	302	
		0.0	0.0	0.0	0.0				0									
		0.0	0.0	0.0	0.0				0									
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
10.00				5,952	2,716	4,320			P1		Corner	66	365	30	260	163	-160	
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:  
SEE ADDITIONAL OPENING SHEAR WALL CALCULATION

Effective Shearwall Length Factor: 1.00															Wall Height, h (ft)= 9	Calc A.B. N		
LINE: K	2ND STORY					Total Length (ft)= 10	Least Horizontal Dimension (ft) 3.66						Reduce for aspect ratio Y			Floor DL (psf)= 20		
Load	Trib w (ft)	$I_e^*Seis$	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	Clift Pressure (psf) =				Shear pier height(ft)= 9	above=	Wind (lb)	Seis (lb)	
$\omega 24$	9.75	19.1	120.0	125.1	188.0	Major	19.5	6	319	-14.688					Total=	661	302	
		0.0	0.0	0.0	0.0				0									
		0.0	0.0	0.0	0.0				0									
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
10.00				19,806	4,390	4,320	163	-160	P4		Corner	220	895	49	640	1,712	-153	
											Corner							
											Corner							
											Corner							
											Corner							
											Corner							

NOTES:  
SEE ADDITIONAL OPENING SHEAR WALL CALCULATION



**L. R. NELSON CONSULTING ENGINEERS**

**JOB NO.** 729-086-241  
**DATE** 04/25/24

**PROJECT** SNRHA BENNET PLAZA  
**SUBJECT** SHEARWALLS

**SHEET** \_\_\_\_\_  
**DESIGNED** MS  
**SECTION** \_\_\_\_\_  
**CHECKED** KAB

Allowable aspect ratio= 3.5													$\omega = 1.0$				Roof DL (psf)= 23		Floor DL (psf)= 20		Wall DL (psf)= 16	
LINE: K		1ST STORY		Total Length (ft)= 10				Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9			Calc A.B. N							
				Least Horizontal Dimension (ft) 3.66							Reduce for aspect ratio Y											
Load	Trib w (ft)	I <sub>E</sub> *Seis	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =			above=		Wind (lb)	Seis (lb)						
$\omega 25$	9.75	9.5	100.8	99.3	149.2	Major	19.5	6	253	-13.872			Total=		2201	488						
		0.0	0.0	0.0	0.0				0													
		0.0	0.0	0.0	0.0				0													
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)				
10.00				30,796	5,227	4,320	1,712	-153	P1	STHD14 (C)	Corner	342	365	58	260	4,359	-63	O.K.				
											Corner											
											Corner											
											Corner											
											Corner											

**NOTES:**

LINE: J		3RD STORY		Total Length (ft)= 10				Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 4.5			Calc A.B. N			
				Least Horizontal Dimension (ft) 3.66							Reduce for aspect ratio Y							
Load	Trib w (ft)	I <sub>E</sub> *Seis	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =			above=		Wind (lb)	Seis (lb)		
$\omega 23$	9.75	31.0	62.4	54.4	80.2	Major	19.5	6	131	-16.29			Total=		661	302		
		0.0	0.0	0.0	0.0				0									
		0.0	0.0	0.0	0.0				0									
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
10.00				2,976	1,358	2,160			P1		Corner	66	365	30	260	82	-80	
											Corner							
											Corner							
											Corner							
											Corner							

SEE ADDITIONAL OPENING SHEAR WALL CALCULATION

LINE: J		2ND STORY		Total Length (ft)= 10				Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9			Calc A.B. N			
				Least Horizontal Dimension (ft) 3.66							Reduce for aspect ratio Y							
Load	Trib w (ft)	I <sub>E</sub> *Seis	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =			above=		Wind (lb)	Seis (lb)		
$\omega 24$	9.75	19.1	120.0	125.1	188.0	Major	19.5	6	319	-14.688			Total=		661	302		
		0.0	0.0	0.0	0.0				0									
		0.0	0.0	0.0	0.0				0									
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
10.00				19,806	4,390	4,320	82	-80	P4		Corner	220	895	49	640	1,630	-73	
											Corner							
											Corner							
											Corner							
											Corner							

SEE ADDITIONAL OPENING SHEAR WALL CALCULATION

LINE: J		1ST STORY		Total Length (ft)= 10				Effective Shearwall Length Factor: 1.00				Wall Height, h (ft)= 9			Calc A.B. N			
				Least Horizontal Dimension (ft) 3.66							Reduce for aspect ratio Y							
Load	Trib w (ft)	I <sub>E</sub> *Seis	$\omega$ (min)	$\omega$	w (EZ)	E.Z. Appl	Ld Spn(ft)	2*a (ft)	E.Z. P (lb)	plift Pressure (psf) =			above=		Wind (lb)	Seis (lb)		
$\omega 25$	9.75	9.5	100.8	99.3	149.2	Major	19.5	6	253	-13.872			Total=		2201	488		
		0.0	0.0	0.0	0.0				0									
		0.0	0.0	0.0	0.0				0									
Shear-Wall Length (ft)	Roof <sub>DL</sub> 'w' (ft)	Floor <sub>DL</sub> 'w' (ft)	Other <sub>DL</sub> 'w' (plf)	OTM - Wind (ft-lb)	OTM - Seismic (ft-lb)	0.6*RM (ft-lb)	Tension From Above: Wind (lb)	Tension From Above: Seismic (lb)	Wall Type	Holdown Strap	HD Capacity Rating	Wind Shear (plf)	Wind Wall Capacity (plf)	Seismic Shear (plf)	Seismic Wall Capacity (plf)	Tension : Wind (lb)	Tension : Seismic (lb)	HD Capacity (lb)
10.00				30,796	5,227	4,320	1,630	-73	P1	STHD14 (C)	Corner	342	365	58	260	4,278	17	O.K.
											Corner							
											Corner							
											Corner							
											Corner							

**NOTES:**

JOB NO. 729-086-241

DATE \_\_\_\_\_

PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_

OF \_\_\_\_\_

SUBJECT: LINE 7 AND 8 - 2RD STORY

DESIGNED MS

CHECKED KAB

**SHEAR WALL GEOMETRY AND FORCES**

WIND LATERAL LOAD = 2201 LB  
 SEISMIC LATERAL LOAD = 488 LB  
 CONNECTION HARDWARE = USP  
 UPPER WALL = YES  
 ADD'L WIND UP/DOWN FROM ABOVE =  
 ADD'L SEISMIC UP/DOWN FROM ABOVE =  
 cD = 4.0

PANEL DIMS: L1 = 2.00 ft L2 = 6.00 ft L3 = 2.00 ft  
 H1 = 2.00 ft H2 = 6.00 ft H3 = 1.00 ft

KING STUDS = 2X6 DFLSTUD  
 END STUDS = (2)2X6 DFLSTUD

APA PANEL GRADE = PS2 Sht'g/Siding OSB  
 PANEL THICKNESS = 3/8 ON 2 SIDE(s)  
 NAIL SIZE, COMMON = 8d @ 2 in o.c.  
 SPECIFIC GRAVITY OF FRAMING = 0.5  
 STUD SPACING = 16

RESISTING WALL DEAD LOAD = 8.00 ft @ 0 psf = 0 plf  
 RESISTING ROOF DEAD LOAD = 5.00 ft @ 0 psf = 0 plf  
 RESISTING FLOOR DEAD LOAD = 0.00 ft @ 0 psf = 0 plf  
 SILL ANCHOR SIZE = 16d  
 DEFLECTION ASSUMES da = 0.150 in

**PANEL FORCES**

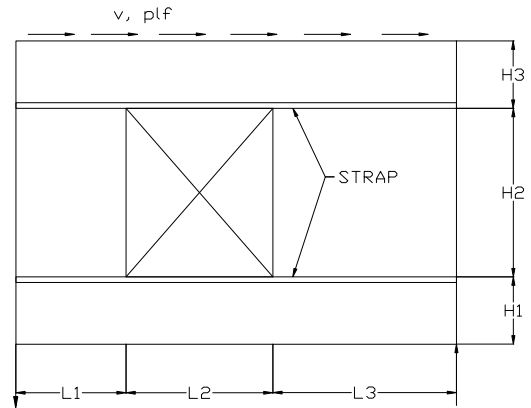
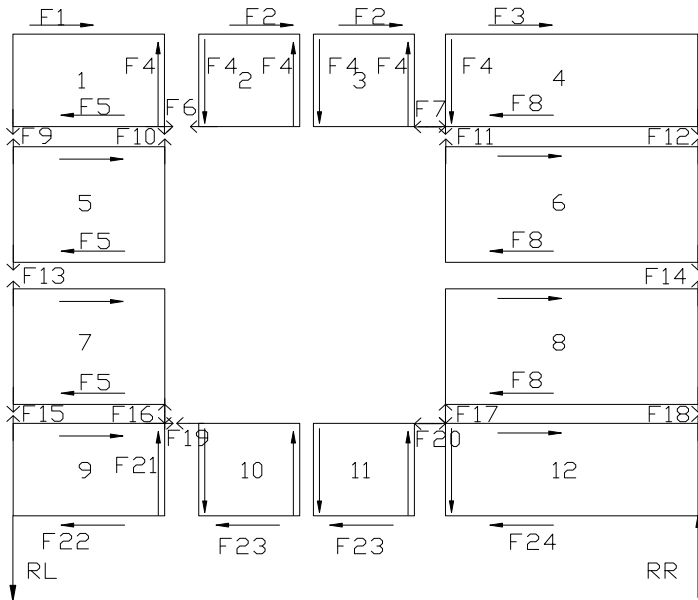
WIND	SEISMIC
F1 = -1540 lbs	-341 lbs
F2 = 2641 lbs	585 lbs
F3 = -1540 lbs	-341 lbs
F4 = 880 lbs	195 lbs
F5 = 1100 lbs	244 lbs
F6 = 2641 lbs	585 lbs
F7 = 2641 lbs	585 lbs
F8 = 1100 lbs	244 lbs
F9 = -770 lbs	-171 lbs
F10 = 1650 lbs	366 lbs
F11 = 1650 lbs	366 lbs
F12 = -770 lbs	-171 lbs
F13 = 880 lbs	195 lbs
F14 = 880 lbs	195 lbs
F15 = 2531 lbs	561 lbs
F16 = 1650 lbs	366 lbs
F17 = 1650 lbs	366 lbs
F18 = 2531 lbs	561 lbs
F19 = 1650 lbs	366 lbs
F20 = 1650 lbs	366 lbs
F21 = 1100 lbs	244 lbs
F22 = -550 lbs	-122 lbs
F23 = 1650 lbs	366 lbs
F24 = -550 lbs	-122 lbs

**PANEL SHEARS**

WIND	SEISMIC
V1 = -770 plf	-171 plf
V2 = 880 plf	195 plf
V3 = 880 plf	195 plf
V4 = -770 plf	-171 plf
V5 = 550 plf	122 plf
V6 = 550 plf	122 plf
V7 = 550 plf	122 plf
V8 = 550 plf	122 plf
V9 = -275 plf	-61 plf
V10 = 550 plf	122 plf
V11 = 550 plf	122 plf
V12 = -275 plf	-61 plf

**DESIGN SUMMARY THE WALL DESIGN IS ADEQUATE**

SHEATHING = 3/8 PS2 Sht'g/Siding OSB  
 SIDES SHT'G APPLIED TO = 2 SIDE(s)  
 BOUNDARY AND EDGE NAILING = 8d COMMON NAILS AT 2 in O.C.  
 FIELD NAILING = 8d COMMON NAILS AT 12 in O.C.  
 WALL END REACTIONS RL =: 1981 lbs  
 RR = 1981 lbs  
 STRAP FORCE: T = 2641 lbs  
 MINIMUM STRAP REQUIRED = (2) RS150 USP STRAP  
 KING STUDS = 2X6 DFLSTUD  
 END STUDS = (2)2X6 DFLSTUD  
 WALL DEFLECTION = 0.558in Wind, 1.596in Seismic, OKAY  
 SILL PLATE ANCHORS = 16d SINKERS AT 8 in O.C.  
 MINIMUM HOLDOWNS REQUIRED = (2) RS150 USP HOLDOWN  
 MAXIMUM WIND UNIT SHEAR = 880 plf < Va = 1792.0  
 MAXIMUM SEISMIC UNIT SHEAR = 195 plf < Va = 853.3  
 MAXIMUM HEIGHT/WIDTH RATIO = 3.0 <= 3.5



NOTE: Allowable seismic shears reduced for aspect ratio where required.

JOB NO. 729-086-241

DATE

PROJECT: SNRHA BENNET PLAZA
SUBJECT: LINE 7 AND 8 - 3RD STORY

SHEET DESIGNED MS OF CHECKED KAB

SHEAR WALL GEOMETRY AND FORCES

WIND LATERAL LOAD = 661 LB
SEISMIC LATERAL LOAD = 302 LB
CONNECTION HARDWARE = USP
UPPER WALL = YES
ADD'L WIND UP/DOWN FROM ABOVE =
ADD'L SEISMIC UP/DOWN FROM ABOVE =
c/d = 4.0
PANEL DIMS: L1 = 2.00 ft, L2 = 6.00 ft, L3 = 2.00 ft
H1 = 2.00 ft, H2 = 6.00 ft, H3 = 1.00 ft
KING STUDS = 2X6 DFLSTUD
END STUDS = (2)2X6 DFLSTUD
APA PANEL GRADE = PS2 Sht'g/Siding OSB
PANEL THICKNESS = 3/8 ON 1 SIDE(s)
NAIL SIZE, COMMON = 8d @ 6 in o.c.
SPECIFIC GRAVITY OF FRAMING = 0.5
STUD SPACING = 16
RESISTING WALL DEAD LOAD = 8.00 ft @ 0 psf = 0 plf
RESISTING ROOF DEAD LOAD = 5.00 ft @ 0 psf = 0 plf
RESISTING FLOOR DEAD LOAD = 0.00 ft @ 0 psf = 0 plf
SILL ANCHOR SIZE = 16d
DEFLECTION ASSUMES da = 0.150 in

PANEL FORCES

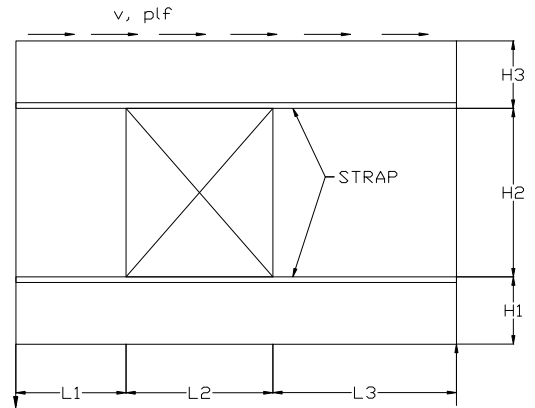
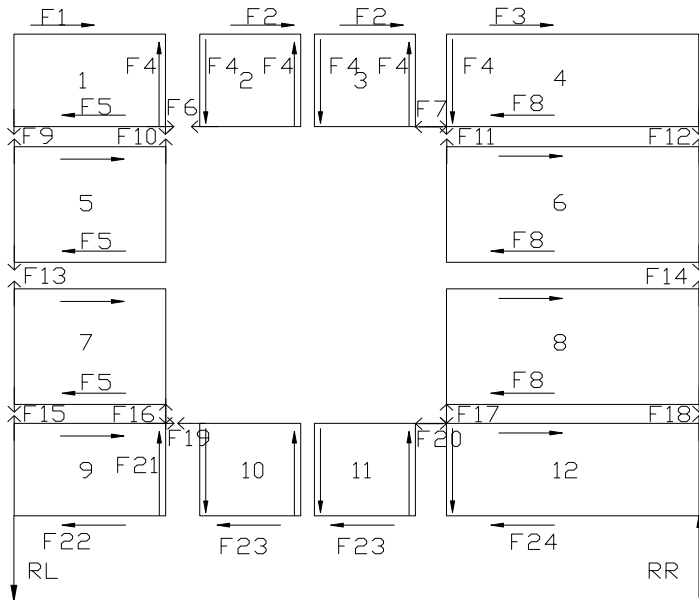
Table with 2 columns: WIND, SEISMIC. Rows F1 through F24 showing force values in lbs.

PANEL SHEARS

Table with 2 columns: WIND, SEISMIC. Rows V1 through V12 showing shear values in plf.

DESIGN SUMMARY THE WALL DESIGN IS ADEQUATE

SHEATHING = 3/8 PS2 Sht'g/Siding OSB
SIDES SHT'G APPLIED TO = 1 SIDE(s)
BOUNDRY AND EDGE NAILING = 8d COMMON NAILS AT 6 in O.C.
FIELD NAILING = 8d COMMON NAILS AT 12 in O.C.
WALL END REACTIONS RL =: 595 lbs
RR = 595 lbs
STRAP FORCE: T = 794 lbs
MINIMUM STRAP REQUIRED = RS300 USP STRAP
KING STUDS = 2X6 DFLSTUD
END STUDS = (2)2X6 DFLSTUD
WALL DEFLECTION = 0.57in Wind, 1.684in Seismic, OKAY
SILL PLATE ANCHORS = 16d SINKERS AT 29 in O.C.
MINIMUM HOLDOWNS REQUIRED = RS300 USP HOLDOWN
MAXIMUM WIND UNIT SHEAR = 265 plf < Va = 364.0
MAXIMUM SEISMIC UNIT SHEAR = 121 plf < Va = 173.3
MAXIMUM HEIGHT/WIDTH RATIO = 3.0 <= 3.5



NOTE: Allowable seismic shears reduced for aspect ratio where required.

## L.R. NELSON CONSULTING ENGINEERS

JOB NO. 729-086-241DATE 4/25/2024PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_

OF \_\_\_\_\_

SUBJECT: ALLOWABLE ANCHOR BOLT LOADSDESIGNED MSCHECKED KAB**A307 Anchor Bolts - 1/2" Diameter***\*Assumes 1/2" diameter A307 anchor bolts in a 1 1/2" Douglas-Fir larch bottom plate and 6" (min) embed, parallel to grain**\*Assumes wood controls*

$$Z_{||} = 650 \text{ lbs/bolt}$$

$$Z'_{||} = Z \cdot C_D \cdot C_M \cdot C_t$$

$$= (650 \text{ lbs/nail})(1.6)(1.0)(1.0)$$

$$= 1040 \text{ lbs/nail}$$

$$C_D = 1.6 \quad C_t = 1.0$$

$$SG = 0.5 \quad C_M = 1.0$$

1/2" Anchor Bolts at <u>72 in o.c.</u>	⇒	1040 lbs/bolt × 0.2 nails/ft =	<b>173</b>	<b>lbs/ft</b>
1/2" Anchor Bolts at <u>36 in o.c.</u>	⇒	1040 lbs/bolt × 0.3 nails/ft =	<b>347</b>	<b>lbs/ft</b>
1/2" Anchor Bolts at <u>32 in o.c.</u>	⇒	1040 lbs/bolt × 0.4 nails/ft =	<b>390</b>	<b>lbs/ft</b>
1/2" Anchor Bolts at <u>28 in o.c.</u>	⇒	1040 lbs/bolt × 0.4 nails/ft =	<b>446</b>	<b>lbs/ft</b>
1/2" Anchor Bolts at <u>24 in o.c.</u>	⇒	1040 lbs/bolt × 0.5 nails/ft =	<b>520</b>	<b>lbs/ft</b>
1/2" Anchor Bolts at <u>20 in o.c.</u>	⇒	1040 lbs/bolt × 0.6 nails/ft =	<b>624</b>	<b>lbs/ft</b>
1/2" Anchor Bolts at <u>16 in o.c.</u>	⇒	1040 lbs/bolt × 0.8 nails/ft =	<b>780</b>	<b>lbs/ft</b>
1/2" Anchor Bolts at <u>12 in o.c.</u>	⇒	1040 lbs/bolt × 1 nails/ft =	<b>1040</b>	<b>lbs/ft</b>
1/2" Anchor Bolts at <u>9 in o.c.</u>	⇒	1040 lbs/bolt × 1.3 nails/ft =	<b>1387</b>	<b>lbs/ft</b>

**A307 Anchor Bolts - 5/8" Diameter***\*Assumes 5/8" diameter A307 anchor bolts in a 1 1/2" Douglas-Fir larch bottom plate and 6" (min) embed, parallel to grain**\*Assumes wood controls*

$$Z_{||} = 930 \text{ lbs/bolt}$$

$$Z'_{||} = Z \cdot C_D \cdot C_M \cdot C_t$$

$$= (930 \text{ lbs/nail})(1.6)(1.0)(1.0)$$

$$= 1488 \text{ lbs/nail}$$

$$C_D = 1.6 \quad C_t = 1.0$$

$$SG = 0.5 \quad C_M = 1.0$$

5/8" Anchor Bolts at <u>72 in o.c.</u>	⇒	1488 lbs/bolt × 0.2 nails/ft =	<b>248</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>36 in o.c.</u>	⇒	1488 lbs/bolt × 0.3 nails/ft =	<b>496</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>32 in o.c.</u>	⇒	1488 lbs/bolt × 0.4 nails/ft =	<b>558</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>28 in o.c.</u>	⇒	1488 lbs/bolt × 0.4 nails/ft =	<b>638</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>24 in o.c.</u>	⇒	1488 lbs/bolt × 0.5 nails/ft =	<b>744</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>20 in o.c.</u>	⇒	1488 lbs/bolt × 0.6 nails/ft =	<b>893</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>16 in o.c.</u>	⇒	1488 lbs/bolt × 0.8 nails/ft =	<b>1116</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>12 in o.c.</u>	⇒	1488 lbs/bolt × 1 nails/ft =	<b>1488</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>9 in o.c.</u>	⇒	1488 lbs/bolt × 1.3 nails/ft =	<b>1984</b>	<b>lbs/ft</b>

**A307 Anchor Bolts - 5/8" Diameter***\*Assumes 5/8" diameter A307 anchor bolts in a 2 1/2" Douglas-Fir larch bottom plate and 6" (min) embed, parallel to grain**\*Assumes wood controls*

$$Z_{||} = 1180 \text{ lbs/bolt}$$

$$Z'_{||} = Z \cdot C_D \cdot C_M \cdot C_t$$

$$= (1180 \text{ lbs/nail})(1.6)(1.0)(1.0)$$

$$= 1888 \text{ lbs/nail}$$

$$C_D = 1.6 \quad C_t = 1.0$$

$$SG = 0.5 \quad C_M = 1.0$$

5/8" Anchor Bolts at <u>72 in o.c.</u>	⇒	1888 lbs/bolt × 0.2 nails/ft =	<b>315</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>36 in o.c.</u>	⇒	1888 lbs/bolt × 0.3 nails/ft =	<b>629</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>32 in o.c.</u>	⇒	1888 lbs/bolt × 0.4 nails/ft =	<b>708</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>28 in o.c.</u>	⇒	1888 lbs/bolt × 0.4 nails/ft =	<b>809</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>24 in o.c.</u>	⇒	1888 lbs/bolt × 0.5 nails/ft =	<b>944</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>20 in o.c.</u>	⇒	1888 lbs/bolt × 0.6 nails/ft =	<b>1133</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>16 in o.c.</u>	⇒	1888 lbs/bolt × 0.8 nails/ft =	<b>1416</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>12 in o.c.</u>	⇒	1888 lbs/bolt × 1 nails/ft =	<b>1888</b>	<b>lbs/ft</b>
5/8" Anchor Bolts at <u>9 in o.c.</u>	⇒	1888 lbs/bolt × 1.3 nails/ft =	<b>2517</b>	<b>lbs/ft</b>

L.R. NELSON CONSULTING ENGINEERS

JOB NO. 729-086-241

DATE 4/25/2024

PROJECT: SNRHA BENNET PLAZA

SHEET \_\_\_\_\_

OF \_\_\_\_\_

SUBJECT: ALLOWABLE ANCHOR BOLT LOADS

DESIGNED MS

CHECKED KAB

**A307 Anchor Bolts - 1/2" Diameter**

\*Assumes 1/2" diameter A307 anchor bolts in a 1 1/2" Douglas-Fir larch bottom plate and 6" (min) embed, perpendicular to grain

\*Assumes wood controls

$$Z_{\perp} = 380 \text{ lbs/bolt} \quad C_D = 1.6 \quad C_t = 1.0$$

$$Z'_{\perp} = Z \cdot C_D \cdot C_M \cdot C_t \quad SG = 0.5 \quad C_M = 1.0$$

$$= (380 \text{ lbs/nail})(1.6)(1.0)(1.0)$$

$$= 608 \text{ lbs/nail}$$

1/2" Anchor Bolts at 72 in o.c.	⇒	608 lbs/bolt × 0.2 nails/ft =	<b>101</b>	lbs/ft
1/2" Anchor Bolts at 36 in o.c.	⇒	608 lbs/bolt × 0.3 nails/ft =	<b>203</b>	lbs/ft
1/2" Anchor Bolts at 32 in o.c.	⇒	608 lbs/bolt × 0.4 nails/ft =	<b>228</b>	lbs/ft
1/2" Anchor Bolts at 28 in o.c.	⇒	608 lbs/bolt × 0.4 nails/ft =	<b>261</b>	lbs/ft
1/2" Anchor Bolts at 24 in o.c.	⇒	608 lbs/bolt × 0.5 nails/ft =	<b>304</b>	lbs/ft
1/2" Anchor Bolts at 20 in o.c.	⇒	608 lbs/bolt × 0.6 nails/ft =	<b>365</b>	lbs/ft
1/2" Anchor Bolts at 16 in o.c.	⇒	608 lbs/bolt × 0.8 nails/ft =	<b>456</b>	lbs/ft
1/2" Anchor Bolts at 12 in o.c.	⇒	608 lbs/bolt × 1 nails/ft =	<b>608</b>	lbs/ft
1/2" Anchor Bolts at 9 in o.c.	⇒	608 lbs/bolt × 1.3 nails/ft =	<b>811</b>	lbs/ft

**A307 Anchor Bolts - 5/8" Diameter**

\*Assumes 5/8" diameter A307 anchor bolts in a 1 1/2" Douglas-Fir larch bottom plate and 6" (min) embed, perpendicular to grain

\*Assumes wood controls

$$Z_{\perp} = 530 \text{ lbs/bolt} \quad C_D = 1.6 \quad C_t = 1.0$$

$$Z'_{\perp} = Z \cdot C_D \cdot C_M \cdot C_t \quad SG = 0.5 \quad C_M = 1.0$$

$$= (530 \text{ lbs/nail})(1.6)(1.0)(1.0)$$

$$= 848 \text{ lbs/nail}$$

5/8" Anchor Bolts at 72 in o.c.	⇒	848 lbs/bolt × 0.2 nails/ft =	<b>141</b>	lbs/ft
5/8" Anchor Bolts at 36 in o.c.	⇒	848 lbs/bolt × 0.3 nails/ft =	<b>283</b>	lbs/ft
5/8" Anchor Bolts at 32 in o.c.	⇒	848 lbs/bolt × 0.4 nails/ft =	<b>318</b>	lbs/ft
5/8" Anchor Bolts at 28 in o.c.	⇒	848 lbs/bolt × 0.4 nails/ft =	<b>363</b>	lbs/ft
5/8" Anchor Bolts at 24 in o.c.	⇒	848 lbs/bolt × 0.5 nails/ft =	<b>424</b>	lbs/ft
5/8" Anchor Bolts at 20 in o.c.	⇒	848 lbs/bolt × 0.6 nails/ft =	<b>509</b>	lbs/ft
5/8" Anchor Bolts at 16 in o.c.	⇒	848 lbs/bolt × 0.8 nails/ft =	<b>636</b>	lbs/ft
5/8" Anchor Bolts at 12 in o.c.	⇒	848 lbs/bolt × 1 nails/ft =	<b>848</b>	lbs/ft
5/8" Anchor Bolts at 9 in o.c.	⇒	848 lbs/bolt × 1.3 nails/ft =	<b>1131</b>	lbs/ft

**A307 Anchor Bolts - 5/8" Diameter**

\*Assumes 5/8" diameter A307 anchor bolts in a 2 1/2" Douglas-Fir larch bottom plate and 6" (min) embed, perpendicular to grain

\*Assumes wood controls

$$Z_{\perp} = 610 \text{ lbs/bolt} \quad C_D = 1.6 \quad C_t = 1.0$$

$$Z'_{\perp} = Z \cdot C_D \cdot C_M \cdot C_t \quad SG = 0.5 \quad C_M = 1.0$$

$$= (610 \text{ lbs/nail})(1.6)(1.0)(1.0)$$

$$= 976 \text{ lbs/nail}$$

5/8" Anchor Bolts at 72 in o.c.	⇒	976 lbs/bolt × 0.2 nails/ft =	<b>163</b>	lbs/ft
5/8" Anchor Bolts at 36 in o.c.	⇒	976 lbs/bolt × 0.3 nails/ft =	<b>325</b>	lbs/ft
5/8" Anchor Bolts at 32 in o.c.	⇒	976 lbs/bolt × 0.4 nails/ft =	<b>366</b>	lbs/ft
5/8" Anchor Bolts at 28 in o.c.	⇒	976 lbs/bolt × 0.4 nails/ft =	<b>418</b>	lbs/ft
5/8" Anchor Bolts at 24 in o.c.	⇒	976 lbs/bolt × 0.5 nails/ft =	<b>488</b>	lbs/ft
5/8" Anchor Bolts at 20 in o.c.	⇒	976 lbs/bolt × 0.6 nails/ft =	<b>586</b>	lbs/ft
5/8" Anchor Bolts at 16 in o.c.	⇒	976 lbs/bolt × 0.8 nails/ft =	<b>732</b>	lbs/ft
5/8" Anchor Bolts at 12 in o.c.	⇒	976 lbs/bolt × 1 nails/ft =	<b>976</b>	lbs/ft
5/8" Anchor Bolts at 9 in o.c.	⇒	976 lbs/bolt × 1.3 nails/ft =	<b>1301</b>	lbs/ft



**L. R. NELSON CONSULTING ENGINEERS**

**JOB NO.** 729-086-241  
**DATE** 04/25/24

**PROJECT** SNRHA BENNET PLAZA  
**SUBJECT** FOOTINGS

**SHEET**  
**DESIGNED** MS

**SECTION**  
**CHECKED** KAB

**FOOTINGS**

Assumed Soil Bearing Pressure

q=	2,500	psf not to exceed -----	3,000	psf
	0	psf/ft width greater than	0	in

Concrete Weight: 150 pcf  
 Concrete Strength: 2500 psi  
 Steel Grade: 60000 psi

**Bearing Pressure**

Spread Footings

Width (in)	Depth (in)	Loads (lb)	#4 Bars
72	18	81,900	10
84	20	110,250	14
96	22	142,400	19
108	24	178,200	23
114	26	196,294	26
120	26	217,500	29
126	28	237,038	31
132	28	260,150	35
138	30	281,031	36

Continuous Footings:

Width (in)	Loads (plf)	#4 Long. Bars	#4 Trans. Bars
72	13650	9	7 in. o.c.
84	15750	12	6 in. o.c.
96	17800	15	5 in. o.c.
108	19800	18	4 in. o.c.
114	20663	20	4 in. o.c.
120	21750	21	4 in. o.c.
126	22575	24	4 in. o.c.
132	23650	25	3 in. o.c.
138	24438	28	3 in. o.c.

(The number of longitudinal bars required as per ACI 318, Section 7.12)

**Punching Shear**

Footing Width	X <sub>COLUMN</sub> (in)	Y <sub>COLUMN</sub> (in)	Effective Depth (in)	A <sub>p</sub> (in <sup>2</sup> )	P <sub>u</sub> (lbs)	v <sub>u</sub> (psi)	v <sub>c</sub> (psi)	Check
72	3	3.5	14.50	1029.5	131040	119.6	150	OK
84	3	3.5	16.50	1303.5	176400	127.8	150	OK
96	3	3.5	18.50	1609.5	227840	134.3	150	OK
108	3	3.5	20.50	1947.5	285120	139.3	150	OK
114	3	3.5	22.50	2317.5	314070	128.6	150	OK
120	3	3.5	22.50	2317.5	348000	143.2	150	OK
126	3	3.5	24.50	2719.5	379260	132.7	150	OK
132	3	3.5	24.50	2719.5	416240	146.3	150	OK
138	3	3.5	26.50	3153.5	449650	136.0	150	OK

**One-Way Shear**

Footing Width	Effective Depth (in)	X <sub>min</sub> (in)	e (in)	P <sub>u</sub> (lbs)	q <sub>u</sub> (psi)	v <sub>u</sub> (psi)	v <sub>c</sub> (psi)	Check
72	14.5	3	20	131040	25.3	34.9	75	OK
84	16.5	3	24	176400	25.0	36.4	75	OK
96	18.5	3	28	227840	24.7	37.4	75	OK
108	20.5	3	32	285120	24.4	38.2	75	OK
114	22.5	3	33	314070	24.2	35.4	75	OK
120	22.5	3	36	348000	24.2	38.7	75	OK
126	24.5	3	37	379260	23.9	36.1	75	OK
132	24.5	3	40	416240	23.9	39.0	75	OK
138	26.5	3	41	449650	23.6	36.5	75	OK

**Bending**

Footing Width	Effective Depth (in)	X <sub>min</sub> (in)	q <sub>u</sub> (psi)	M <sub>u</sub> (lb-in)	Required A <sub>s</sub> (in <sup>2</sup> )	Min A <sub>s</sub> (in <sup>2</sup> )	#4 Bars	#5 Bars
72	14.5	3	25.3	1083128	1.49	1.99	10	7
84	16.5	3	25.0	1722263	2.09	2.79	14	9
96	18.5	3	24.7	2565870	2.78	3.80	19	12
108	20.5	3	24.4	3638250	3.56	4.75	23	15
114	22.5	3	24.2	4243044	3.78	5.34	26	17
120	22.5	3	24.2	4962263	4.43	5.90	29	19
126	24.5	3	23.9	5692286	4.66	6.35	31	20
132	24.5	3	23.9	6559328	5.38	7.17	35	22
138	26.5	3	23.6	7422891	5.61	7.49	36	23

(Minimum reinforcement per ACI 318, Section 10.5)



**L. R. NELSON CONSULTING ENGINEERS**

JOB NO. 729-086-241  
 DATE 04/25/24

PROJECT SNRHA BENNET PLAZA  
 SUBJECT FOOTINGS

SHEET DESIGNED **MS**

SECTION CHECKED **KAB**

**FOOTINGS**

Assumed Soil Bearing Pressure

q=	<b>2,500</b>	psf not to exceed -----	<b>3,000</b>	psf
	<b>0</b>	psf/ft width greater than	<b>0</b>	in

Concrete Weight: **150** pcf  
 Concrete Strength: **2500** psi  
 Steel Grade **60000** psi

**Bearing Pressure**

Spread Footings

Width (in)	Depth (in)	Loads (lb)	#4 Bars
12	12	2,350	2
18	12	5,288	2
24	12	9,400	3
30	12	14,688	4
36	12	21,150	4
42	12	28,788	5
48	12	37,600	5
54	16	46,575	8
60	16	57,500	9

Continuous Footings:

Width (in)	Loads (plf)	#4 Long. Bars	#4 Trans. Bars
12	2350	1	N.A.
18	3525	2	12 in. o.c.
24	4700	2	9 in. o.c.
30	5875	3	9 in. o.c.
36	7050	3	9 in. o.c.
42	8225	4	9 in. o.c.
48	9400	4	9 in. o.c.
54	10350	6	7 in. o.c.
60	11500	7	7 in. o.c.

(The number of longitudinal bars required as per ACI 318, Section 7.12)

**Punching Shear**

Footing Width	X <sub>COLUMN</sub> (in)	Y <sub>COLUMN</sub> (in)	Effective Depth (in)	A <sub>p</sub> (in <sup>2</sup> )	P <sub>u</sub> (lbs)	v <sub>u</sub> (psi)	v <sub>c</sub> (psi)	Check
12	3	3.5	8.50	399.5	3760	0.4	150	OK
18	3	3.5	8.50	399.5	8460	12.2	150	OK
24	3	3.5	8.50	399.5	15040	28.6	150	OK
30	3	3.5	8.50	399.5	23500	49.8	150	OK
36	3	3.5	8.50	399.5	33840	75.7	150	OK
42	3	3.5	8.50	399.5	46060	106.3	150	OK
48	3	3.5	8.50	399.5	60160	141.6	150	OK
54	3	3.5	12.50	787.5	74520	86.6	150	OK
60	3	3.5	12.50	787.5	92000	108.8	150	OK

**One-Way Shear**

Footing Width	Effective Depth (in)	X <sub>min</sub> (in)	e (in)	P <sub>u</sub> (lbs)	q <sub>u</sub> (psi)	v <sub>u</sub> (psi)	v <sub>c</sub> (psi)	Check
12	8.5	3	0	3760	26.1	0.0	75	OK
18	8.5	3	0	8460	26.1	0.0	75	OK
24	8.5	3	2	15040	26.1	6.1	75	OK
30	8.5	3	5	23500	26.1	15.4	75	OK
36	8.5	3	8	33840	26.1	24.6	75	OK
42	8.5	3	11	46060	26.1	33.8	75	OK
48	8.5	3	14	60160	26.1	43.0	75	OK
54	12.5	3	13	74520	25.6	26.6	75	OK
60	12.5	3	16	92000	25.6	32.7	75	OK

**Bending**

Footing Width	Effective Depth (in)	X <sub>min</sub> (in)	q <sub>u</sub> (psi)	M <sub>u</sub> (lb-in)	Required A <sub>s</sub> (in <sup>2</sup> )	Min A <sub>s</sub> (in <sup>2</sup> )	#4 Bars	#5 Bars
12	8.5	3	26.1	3173	0.01	0.20	2	2
18	8.5	3	26.1	13219	0.03	0.30	2	2
24	8.5	3	26.1	34545	0.08	0.52	3	2
30	8.5	3	26.1	71381	0.17	0.65	4	2
36	8.5	3	26.1	127958	0.30	0.78	4	3
42	8.5	3	26.1	208504	0.49	0.91	5	3
48	8.5	3	26.1	317250	0.75	1.04	5	4
54	12.5	3	25.6	448673	0.71	1.56	8	5
60	12.5	3	25.6	622725	1.00	1.73	9	6

(Minimum reinforcement per ACI 318, Section 10.5)





**L.R. NELSON CONSULTING ENGINEERS**

**JOB NO.** 729-086-241

**DATE** 4/25/2024

**PROJECT:** SNRHA BENNET PLAZA

**SHEET** \_\_\_\_\_

**OF** \_\_\_\_\_

**SUBJECT:** Crack Control PT Slab Criteria

**DESIGNED** MS

**CHECKED** KAB

**POST-TENSIONED FOUNDATION DESIGN CRITERIA - CRACK CONTROL SLAB**

- Structural Design is based on the International Building Code, ACI 318, and soil report generated by:

Universal Engineering Sciences (UES)  
 Project No: 4030.2400007  
 Dated: 02/07/2024  
 Updated:

- Per the site specific soil report the soils at the site are "non-expansive". Special design consideration is not required for "non-expansive" soils. The post-tension foundations at this site are for "crack control".
- Concrete: Minimum compressive strength = **2500** psi @ 28 days.  
 (Structural design based on 2,500 psi => Special inspection not required.)
- Cement for all concrete shall be Type II.
- Allowable soil bearing pressure = 2500 psf.
- Reinforcing steel shall be per ASTM A615 grade 60.
- Post-tensioning tendons shall be 1/2" diameter, (7) wire strand with the following properties:

$F_{pu} = 270$  ksi  
 $Area = 0.153$  in<sup>2</sup>  
 Jacking Stress =  $0.75 * F_{pu}$   
 Anchoring Stress =  $0.7 * F_{pu}$   
 Effective Stress =  $0.64 * F_{pu}$   
 Jacking Elongation =  $0.086 * L$  in (Length, L, is in feet)

- Special inspection per section 1705 of the International Building Code is not required because the structural design of the foundation is based upon a concrete strength of 2,500 psi and the effective prestress does not exceed 150 psi (compression in the slab).
- Residual Compressive Stress in Slab: 5 " Concrete slab with tendons spacing in accordance with chart below.

$T_{net} \text{ (per tendon)} = .64 * 270 * .153 = 26.4 \text{ k}$   
 $Spacing = \frac{T_{net}}{(P_r \times A_{strip}) + (W_{strip} * L_s / 2 * \mu)}$

$A_{strip}$	60.0 in <sup>2</sup>
$W_{slab}$	62.5 in <sup>2</sup>
$P_r$	100
$\mu$	1

Transverse Direction Spacing = **4.40** ft

$L_s$	4.40
-------	------

Longitudinal Direction Spacing = **4.40** ft

$L_s$	4.40
-------	------

L, ft	Min	Max	Avg
	60 psi	150 psi	100 psi
20	6.25	2.74	3.98
30	5.82	2.66	3.81
35	5.62	2.62	3.72
40	5.44	2.58	3.64
45	5.27	2.54	3.56
50	5.11	2.50	3.49
55	4.96	2.46	3.42
60	4.82	2.43	3.35
70	4.56	2.36	3.22

**Design is acceptable as a BRAB Type II Slab per PTI -  
 Lightly reinforced against shrinkage and temperature cracking**

# SNRHA BENNETT PLAZA PHASE II

## 1818 Balzar Ave, Las Vegas, NV 89106

**KME ARCHITECTS**  
 5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
 Fax: 702.888.2089  
 Web: www.kmearchitects.com  
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**OWNER**  
 SOUTHERN NEVADA REGIONAL HOUSING AUTHORITY  
 380 N MARYLAND PKWY.  
 LAS VEGAS, NV 89101  
 CONTACT PERSON: FRANK STAFFORD  
 P: 702.477.3100  
 www.snrha.org

**ARCHITECT**  
 KME ARCHITECTS  
 5195 S. DURANGO Suite #103  
 LAS VEGAS, NV 89113  
 CONTACT PERSON: ERIC GROSS  
 P: 702.888.2088  
 www.kmearchitects.com

**CIVIL ENGINEER**  
 WOOD RODGERS  
 2190 E PEBBLE RD. SUITE 200  
 LAS VEGAS, NV 89123  
 CONTACT PERSON: JESSE PATCHETT  
 P: 702.790.5530  
 www.WoodRodgers.com

**STRUCTURAL ENGINEER**  
 L.R. NELSON CONSULTING ENGINEERS  
 6765 WEST RUSSELL ROAD SUITE 200  
 LAS VEGAS, NV 89119-1811  
 CONTACT PERSON: KENT BARBER  
 P: 702.798.7978  
 www.lrneng.com

**GEO TECH**  
 UNIVERSAL ENGINEERING  
 4480 W. HACIENDA AVE. SUITE 104  
 LAS VEGAS, NV 89118  
 CONTACT PERSON: SUCHAN LAMICHANE  
 P: 702.953.9436  
 www.universaleengineering.com

**FIRE PROTECTION**  
 TERP CONSULTING  
 1604 S. MARYLAND PKWY.  
 LAS VEGAS, NV 89104  
 CONTACT PERSON: BRYAN DOUGLAS  
 P: 702.953.9436  
 www.terpconsulting.com

**MECHANICAL/PLUMBING/ELECTRICAL/TELECOMMUNICATIONS ENGINEER**  
 (R)EVOLUTION ENGINEERING  
 3590 E. PATRICK LANE  
 LAS VEGAS, NV 89120  
 CONTACT PERSON: CHRIS LOVETT  
 P: 702.514.3361  
 www.revolutionnep.com

**LANDSCAPE ARCHITECT**  
 J.W. ZUNINO  
 8540 S. EASTERN AVE. SUITE 220  
 LAS VEGAS, NV 89123  
 CONTACT PERSON: BRENT FELIPE  
 P: 702.253.9390  
 www.jwzunino.com

**NOTE:**  
 RECYCLE 75% OF NON-HAZARDOUS WASTE - CARDBOARD, CONCRETE, WOOD, DRYWALL, ASPHALT AND METALS.

**DEFERRED SUBMITTALS:**  
 THE FOLLOWING DEFERRED SUBMITTALS SHALL BE ENGINEERED BY AN APPROPRIATE NEVADA LICENSED ENGINEER EMPLOYED BY THE CONTRACTOR, AND INSTALLED BY A LICENSED CONTRACTOR PER PROVIDED NEVADA LICENSED ENGINEERED DRAWINGS. ALL STRUCTURAL ELEMENTS ATTACHED TO THESE SYSTEMS SHALL BE REDESIGNED AS NECESSARY AT THE EXPENSE OF THE CONTRACTOR TO ACCEPT ALL ELEMENTS REPRESENTED WITHIN. ELEMENTS SHOWN ON THE DRAWINGS ARE DESIGN INTENT OF EACH ELEMENT TO BE DESIGNED BY THE CONTRACTOR.  
 1. ROOF TRUSS  
 2. FLOOR TRUSS  
 3. EXTERIOR STAIRS  
 4. FIRE SPRINKLER AND ALARM SYSTEM

**SITE LOCATION MAP**

**REVISIONS**

No.	Description	Date
1	CLV COM.	6/21/24

**DRAWN BY:** KME  
**DATE:**  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED  
GRAPHIC SCALE

**SHEET**  
**G0.00**

### SHEET INDEX

### SHEET INDEX

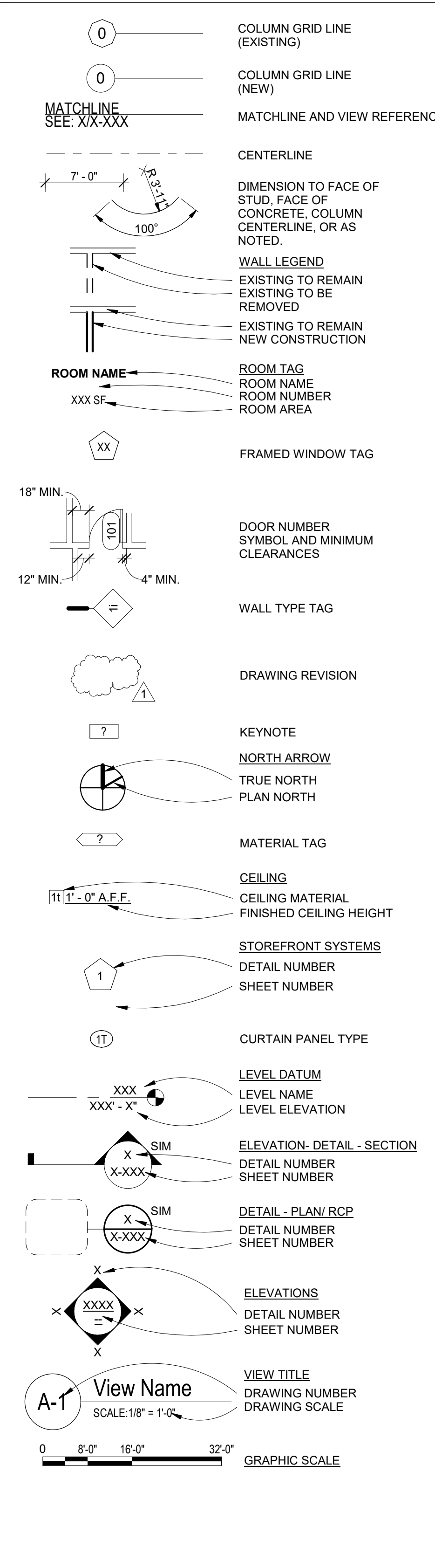
### ARCHITECTURAL SYMBOLS

### BUILDING CODE ANALYSIS

### SITE INFORMATION

SHEET NO.	SHEET NAME	REVISION 1	SHEET NO.	SHEET NAME	REVISION 1
G0.09	I.E.C.C. REPORT & CONDITIONAL APPROVAL		L3.01	LANDSCAPE DETAILS	
G0.00	COVER & INFORMATION, SHEET INDEX & BUILDING CODE ANALYSIS		L3.02	IRRIGATION DETAILS	
G0.01	ABBREVIATIONS, RESPONSIBILITY MATRIX AND I.E.C.C. REPORT		S1	GENERAL NOTES	
G0.02	ADA REQUIREMENTS		S1.1	SCHEDULES AND NOTES	
G0.03	ADA REQUIREMENTS AND GENERAL NOTES		S2	FOUNDATION PLAN	
G0.04	ADA REQUIREMENTS GENERAL NOTES AND UL LISTING		S3	FRAMING PLAN	
G0.05	I.E.C.C. REPORT & CONDITIONAL APPROVAL		S3.1	FRAMING PLAN	
G0.06	I.E.C.C. REPORT & CONDITIONAL APPROVAL		S3.2	FRAMING PLAN	
G0.07	I.E.C.C. REPORT & CONDITIONAL APPROVAL		S3.3	FRAMING PLAN	
G0.08	I.E.C.C. REPORT & CONDITIONAL APPROVAL		S4	SHEAR WALL PLAN	
G0.09	I.E.C.C. REPORT & CONDITIONAL APPROVAL		S4.1	SHEAR WALL PLAN	
G0.10	FIRST FLOOR - EGRESS PLANS AND OCCUPANCY LEGEND		S4.2	SHEAR WALL PLAN	
G0.11	SECOND FLOOR - LIFE SAFETY PLAN AND OCCUPANCY LEGEND		SD-1	STRUCTURAL DETAILS	
G0.12	THIRD FLOOR - LIFE SAFETY PLAN AND OCCUPANCY LEGEND		SD-1.1	STRUCTURAL DETAILS	
A1.00	OVERALL ARCHITECTURAL LOCATION PLAN		SD-2	STRUCTURAL DETAILS (T-SIMP)	
A1.21	ENLARGED SITE PLANS		SD-2(T-USP)	STRUCTURAL DETAILS	
A1.22	SITE DETAILS		SD-2.1	STRUCTURAL DETAILS	
A1.23	ENLARGED TRELIS DETAILS		SD-3	STRUCTURAL DETAILS	
A2.10	OVERALL - FIRST FLOOR		SD-4	STRUCTURAL DETAILS	
A2.11	ENLARGED PLANS - FIRST FLOOR		M0.00	COVER SHEET	
A2.20	OVERALL - SECOND FLOOR		M0.01	GENERAL NOTES	
A2.21	ENLARGED PLANS - SECOND AND THIRD FLOOR		M0.10	SCHEDULES	
A2.30	OVERALL - THIRD FLOOR		M0.11	SCHEDULES	
A2.40	CAT WALK FLOOR PLAN		M1.00	OVERALL MECHANICAL PLAN - LOCATION PLAN	
A2.50	SLAB PLAN - FIRST FLOOR		M2.10	OVERALL MECHANICAL PLAN - FIRST FLOOR	
A2.51	SLAB PLAN - THIRD FLOOR		M2.20	OVERALL MECHANICAL PLAN - SECOND FLOOR	
A3.10	OVERALL REFLECTED CEILING PLAN - FIRST FLOOR		M2.30	OVERALL MECHANICAL PLAN - THIRD FLOOR	
A3.11	ENLARGED REFLECTED CEILING PLANS - FIRST FLOOR		M4.00	OVERALL MECHANICAL PLAN - ROOF	
A3.20	OVERALL REFLECTED CEILING PLAN - SECOND FLOOR		M4.10	ENLARGED MECHANICAL PLAN - UNITS	
A3.21	ENLARGED REFLECTED CEILING PLANS - SECOND FLOOR		M4.20	ENLARGED MECHANICAL PLAN - UNITS	
A3.22	ENLARGED REFLECTED CEILING PLANS - SECOND FLOOR		M5.00	DIAGRAMS	
A4.00	OVERALL ROOF PLAN		P0.00	COVER SHEET	
A5.01	TYPICAL UNIT ENLARGED FLOOR PLANS		P0.01	GENERAL NOTES	
A5.02	TYPICAL UNIT ENLARGED REFLECTED CEILING PLANS		P0.10	SCHEDULES	
A5.03	ENLARGED LOBBY STAIR PLANS AND SECTIONS		P0.11	SCHEDULES	
A5.04	ENLARGED EXTERIOR STAIR PLANS AND SECTIONS		P1.00	OVERALL PLUMBING PLAN - LOCATION PLAN	
A5.05	ENLARGED ELEVATOR, RESTROOMS AND SECTIONS		P2.10	OVERALL WASTE AND VENT PLAN - FIRST FLOOR	
A6.01	PHASE II OVERALL EXTERIOR ELEVATIONS		P2.20	OVERALL PLUMBING PLAN - SECOND FLOOR	
A6.02	PHASE II OVERALL EXTERIOR ELEVATIONS		P2.30	OVERALL PLUMBING PLAN - THIRD FLOOR	
A6.03	PHASE II PARTIAL EXTERIOR ELEVATIONS		P3.10	OVERALL WATER AND GAS PLAN - FIRST FLOOR	
A6.50	INTERIOR ELEVATIONS - TYPICAL UNIT		P4.00	OVERALL PLUMBING PLAN - ROOF	
A6.51	INTERIOR ELEVATIONS - TYPICAL UNIT		P4.10	ENLARGED WASTE AND VENT - UNITS	
A6.52	INTERIOR ELEVATIONS - TYPICAL UNIT		P4.11	ENLARGED WASTE AND VENT - UNITS	
A6.53	INTERIOR ELEVATIONS - COMMON AREAS		P4.20	ENLARGED WATER AND GAS - UNITS	
A6.60	TYPICAL CABINET DETAILS		P4.21	ENLARGED WATER AND GAS - UNITS	
A7.01	PHASE II BUILDING SECTIONS		P5.11	WASTE AND VENT STACK DIAGRAMS	
A7.02	PHASE II BUILDING SECTIONS		P5.12	WASTE AND VENT STACK DIAGRAMS	
A7.50	WALL SECTIONS		P5.13	WASTE AND VENT STACK DIAGRAMS	
A7.51	WALL SECTIONS		P5.14	WASTE AND VENT STACK DIAGRAMS	
A7.52	WALL SECTIONS		P5.21	WATER RISER DIAGRAMS	
A8.00	WALL TYPES		P5.31	GAS DIAGRAMS	
A8.10	CEILING DETAILS		P6.01	DIAGRAMS	
A8.11	CEILING DETAILS		P6.02	DIAGRAMS	
A8.30	STAIR DETAILS AND ROOF HATCH ACCESS DETAIL		E0.00	COVER SHEET	
A8.31	RAMP AND STAIR DETAILS		E0.01	GENERAL NOTES	
A8.50	ROOF DETAILS		E0.02	GENERAL NOTES	
A8.51	ROOF DETAILS		E0.03	TECHNOLOGY DIAGRAMS	
A8.60	PENETRATION / EXPANSION DETAILS		E0.04	ELECTRICAL DIAGRAMS	
A8.61	PENETRATION / EXPANSION DETAILS		E0.10	IECC AND LIGHT FIXTURE SCHEDULE	
A8.62	PENETRATION / EXPANSION DETAILS		E1.00	OVERALL POWER PLAN - LOCATION PLAN	
A8.90	MISCELLANEOUS DETAILS		E1.10	OVERALL PHOTOMETRIC PLAN - SITE	
A9.00	DOOR, FRAME AND HARDWARE SCHEDULES AND FRAME TYPES, AND TYPES		E2.10	OVERALL POWER PLAN - FIRST FLOOR	
A9.01	DOOR DETAILS		E2.20	OVERALL POWER PLAN - SECOND FLOOR	
A9.02	STOREFRONT DETAILS		E2.30	OVERALL POWER PLAN - THIRD FLOOR	
A9.10	WINDOW SCHEDULES AND DETAILS		E3.10	OVERALL LIGHTING PLAN - FIRST FLOOR	
A9.11	WINDOW ELEVATIONS		E3.20	OVERALL LIGHTING PLAN - SECOND FLOOR	
A9.20	ROOM FINISH SCHEDULE		E3.30	OVERALL LIGHTING PLAN - THIRD FLOOR	
CIVIL			E4.00	OVERALL POWER PLAN - ROOF	
T-1	TITLE SHEET		E4.10	ENLARGED UNIT PLAN - 1A TYPE B	
N-1	NOTE SHEET		E4.20	ENLARGED UNIT PLAN - 1B TYPE B	
N-2	LEGEND & ABBREVIATIONS		E4.30	ENLARGED UNIT PLAN - 1C TYPE A	
H-1	HORIZONTAL CONTROL TRAFFIC, FIRE ACCESS PLAN		E4.40	ENLARGED UNIT PLAN - 2D TYPE B	
G-1	GRADING PLAN		E4.50	ENLARGED UNIT PLAN - TYPE 2E	
U-1	UTILITY PLAN		E5.00	SINGLE LINE DIAGRAM	
D-1	DETAIL SHEET		E5.01	SINGLE LINE DIAGRAM	
			E5.02	SINGLE LINE DIAGRAM	
			E6.00	COMMON AREA PANELS	
				Grand total: 158	

SHEET NO.	SHEET NAME	REVISION 1	SHEET NO.	SHEET NAME	REVISION 1
L3.01	LANDSCAPE DETAILS		S1	GENERAL NOTES	
L3.02	IRRIGATION DETAILS		S1.1	SCHEDULES AND NOTES	
			S2	FOUNDATION PLAN	
			S3	FRAMING PLAN	
			S3.1	FRAMING PLAN	
			S3.2	FRAMING PLAN	
			S3.3	FRAMING PLAN	
			S4	SHEAR WALL PLAN	
			S4.1	SHEAR WALL PLAN	
			S4.2	SHEAR WALL PLAN	
			SD-1	STRUCTURAL DETAILS	
			SD-1.1	STRUCTURAL DETAILS	
			SD-2	STRUCTURAL DETAILS (T-SIMP)	
			SD-2(T-USP)	STRUCTURAL DETAILS	
			SD-2.1	STRUCTURAL DETAILS	
			SD-3	STRUCTURAL DETAILS	
			SD-4	STRUCTURAL DETAILS	
			M0.00	COVER SHEET	
			M0.01	GENERAL NOTES	
			M0.10	SCHEDULES	
			M0.11	SCHEDULES	
			M1.00	OVERALL MECHANICAL PLAN - LOCATION PLAN	
			M2.10	OVERALL MECHANICAL PLAN - FIRST FLOOR	
			M2.20	OVERALL MECHANICAL PLAN - SECOND FLOOR	
			M2.30	OVERALL MECHANICAL PLAN - THIRD FLOOR	
			M4.00	OVERALL MECHANICAL PLAN - ROOF	
			M4.10	ENLARGED MECHANICAL PLAN - UNITS	
			M4.20	ENLARGED MECHANICAL PLAN - UNITS	
			M5.00	DIAGRAMS	
			P0.00	COVER SHEET	
			P0.01	GENERAL NOTES	
			P0.10	SCHEDULES	
			P0.11	SCHEDULES	
			P1.00	OVERALL PLUMBING PLAN - LOCATION PLAN	
			P2.10	OVERALL WASTE AND VENT PLAN - FIRST FLOOR	
			P2.20	OVERALL PLUMBING PLAN - SECOND FLOOR	
			P2.30	OVERALL PLUMBING PLAN - THIRD FLOOR	
			P3.10	OVERALL WATER AND GAS PLAN - FIRST FLOOR	
			P4.00	OVERALL PLUMBING PLAN - ROOF	
			P4.10	ENLARGED WASTE AND VENT - UNITS	
			P4.11	ENLARGED WASTE AND VENT - UNITS	
			P4.20	ENLARGED WATER AND GAS - UNITS	
			P4.21	ENLARGED WATER AND GAS - UNITS	
			P5.11	WASTE AND VENT STACK DIAGRAMS	
			P5.12	WASTE AND VENT STACK DIAGRAMS	
			P5.13	WASTE AND VENT STACK DIAGRAMS	
			P5.14	WASTE AND VENT STACK DIAGRAMS	
			P5.21	WATER RISER DIAGRAMS	
			P5.31	GAS DIAGRAMS	
			P6.01	DIAGRAMS	
			P6.02	DIAGRAMS	
			E0.00	COVER SHEET	
			E0.01	GENERAL NOTES	
			E0.02	GENERAL NOTES	
			E0.03	TECHNOLOGY DIAGRAMS	
			E0.04	ELECTRICAL DIAGRAMS	
			E0.10	IECC AND LIGHT FIXTURE SCHEDULE	
			E1.00	OVERALL POWER PLAN - LOCATION PLAN	
			E1.10	OVERALL PHOTOMETRIC PLAN - SITE	
			E2.10	OVERALL POWER PLAN - FIRST FLOOR	
			E2.20	OVERALL POWER PLAN - SECOND FLOOR	
			E2.30	OVERALL POWER PLAN - THIRD FLOOR	
			E3.10	OVERALL LIGHTING PLAN - FIRST FLOOR	
			E3.20	OVERALL LIGHTING PLAN - SECOND FLOOR	
			E3.30	OVERALL LIGHTING PLAN - THIRD FLOOR	
			E4.00	OVERALL POWER PLAN - ROOF	
			E4.10	ENLARGED UNIT PLAN - 1A TYPE B	
			E4.20	ENLARGED UNIT PLAN - 1B TYPE B	
			E4.30	ENLARGED UNIT PLAN - 1C TYPE A	
			E4.40	ENLARGED UNIT PLAN - 2D TYPE B	
			E4.50	ENLARGED UNIT PLAN - TYPE 2E	
			E5.00	SINGLE LINE DIAGRAM	
			E5.01	SINGLE LINE DIAGRAM	
			E5.02	SINGLE LINE DIAGRAM	
			E6.00	COMMON AREA PANELS	



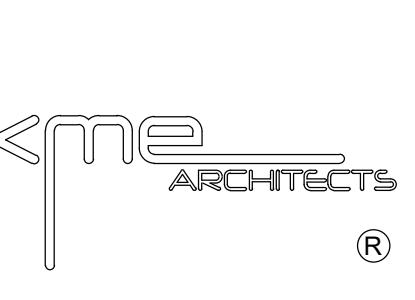
ANALYSIS ITEM	CODE REFERENCE	JURISDICTION	PARCEL NUMBER	CURRENT ZONING	PROPOSED ZONING	LOT SIZE
1. CODE YEAR / TYPE	LAS VEGAS	LAS VEGAS	13921102008	R-2		4.38 ACRES
2. OCCUPANCY CLASSIFICATION	IBC CHAPTER 3					
3. TYPE OF CONSTRUCTION	IBC CHAPTER 6					
4. FIRE SPRINKLERS	IBC 903, 903.2					
5. FIRE ALARM	IBC 907, 907.2					
6. HEIGHT	IBC 504 & TABLE 504.3					
7. STORIES	IBC 504 & TABLE 504.4					
8. AREA	IBC 506, 507 & TABLE 506.2					
9. OCCUPANTS	IBC 1004 & TABLE 1004.5					
10. NUMBER OF EXITS	IBC 1006, 1016, 1017 & TABLES 1006.2.1, 1006.3.2, 1006.3.3, & 1017.2					
11. REQUIRED FIRE RESISTANCE OF EXTERIOR WALLS	IBC 705 & TABLES 601, 602					
12. PROTECTION OF OPENINGS & MAX AREA OF EXTERIOR WALL OPENINGS	IBC 705.8 & TABLE 705.8					
13. FIRE RESISTANCE REQUIREMENTS	IBC 508, 704.10 TABLE 705.5, 3006.2 & TABLES 601, 1020, 1020.1					

### RESPONSIBILITY MATRIX

	FURNISHED			INSTALLED			IF AN ITEM REPRESENTED WITHIN THE CONTRACT DOCUMENTS IS NOT INDICATED ON THE RESPONSIBILITY MATRIX, THE GENERAL CONTRACTOR SHALL INCLUDE IT IN THE BID UNLESS OTHERWISE NOTED IN THE DRAWINGS
	OWNER	CONTRACTOR	EXISTING	OTHERS	OWNER	CONTRACTOR	
<b>ARCHITECTURAL</b>							
WAINSCOTTING		X			X		
WATERPROOFING MEMBRANE		X			X		
CEILING SYSTEMS		X			X		
METAL TRIMWORK AND FACADE		X			X		
TILE, LAMINATED, WOOD FLOORING		X			X		
CARPET FLOORING		X			X		
TILE BASE, VINYL BASE		X			X		
CASEWORK / MILLWORK		X			X		
TABLES / CHAIRS / FURNITURE	X				X		
FOOD SERVICE EQUIPMENT		X			X		
BLOCKING ( FOR WALL & CEILING FIXTURE)		X			X		
STAINLESS STEEL / OTHER CORNER GUARDS		X			X		
ALL REMAINING WORK AS SHOWN IN DRAWINGS		X			X		
POOL TABLE		X			X		
SHUFFLEBOARD COURT STRIPPING PAINT		X			X		
<b>CIVIL</b>							
GRADING		X			X		
UNDERGROUND UTILITIES		X			X		
HARDSCAPE		X			X		
PARKING / CURBING STRIPING		X			X		
SURVEYING / STAKING		X			X		
WATER / GAS / ELECTRICAL METER SETS		X			X		
WATER / GAS / ELECTRICAL CONNECTIONS		X			X		
TESTING / SPECIAL INSPECTION		X			X		
ALL REMAINING WORK AS SHOWN IN DRAWINGS		X			X		
<b>LANDSCAPE</b>							
PLANTS		X			X		
IRRIGATION		X			X		
TURF		X			X		
GRAVEL		X			X		
ALL REMAINING WORK AS SHOWN IN DRAWINGS		X			X		
<b>STRUCTURAL</b>							
STEELWORK		X			X		
CONCRETE SLAB / FOUNDATION		X			X		
METAL DECKING		X			X		
TRUSSES		X			X		
WALLS		X			X		
FIELD WELDING		X			X		
TESTING / SPECIAL INSPECTION	X				X		
ALL REMAINING WORK AS SHOWN IN DRAWINGS		X			X		
<b>MECHANICAL</b>							
MECHANICAL UNITS		X			X		
DUCTWORK		X			X		
EXHAUST FANS		X			X		
DIFFUSERS / REGISTERS		X			X		
ALL REMAINING WORK AS SHOWN IN DRAWINGS		X			X		
<b>PLUMBING</b>							
PLUMBING FIXTURES		X			X		
SEWER CONNECTIONS		X			X		
DOMESTIC WATER SUPPLY		X			X		
ROOF DRAINS AND SCUPPERS		X			X		
CONDENSATE DRAINS		X			X		
ALL REMAINING WORK AS SHOWN IN DRAWINGS		X			X		
<b>ELECTRICAL</b>							
LIGHTING FIXTURES		X			X		
POWER, CONDUIT & PANELS		X			X		
PRIMARY TRANSFORMER AND CONDUCTORS TO BE PROVIDED BY UTILITY COMPANY		X			X		GC TO PROVIDE PRIMARY EMPTY CONDUIT, PAD, BOLLARDS
AV SYSTEM / CONTROL SYSTEM IT RACK		X			X		
POS EQUIPMENT	X				X		GC TO PROVIDE POWER, CONDUIT, CABLES
POS COMM BOX	X				X		GC TO PROVIDE POWER, CONDUIT, CABLES
TELEVISION / MONITORS	X				X		GC TO PROVIDE POWER, CONDUIT, CABLES. INSTALL TV MOUNTS AND TV'S PROVIDED BY OWNER WHERE SHOWN.
TELEPHONE EQUIPMENT	X				X		GC TO PROVIDE POWER, CONDUIT, CABLES
HEARING AID AND DEVICES/ ACCESSORIES	X				X		GC TO PROVIDE POWER, CONDUIT, CABLES
ALL REMAINING WORK AS SHOWN IN DRAWINGS	X				X		
<b>GENERAL NOTES</b>							
GC- GENERAL CONTRACTOR							
1. REFER TO INDIVIDUAL SCHEDULES FOR MORE DETAILED INFORMATION.							

### ABBREVIATIONS

AB	ANCHOR BOLT, AUGER BORING	FXTR	FIXTURE	QT	QUARRY TILE
ABS	AIR BREAK SWITCH	FRP	FIBERGLASS REINFORCED PANEL	R	RADIUS, RISER, RUBBER SHEATH
AC	AIR CONDITIONING, ASBESTOS CEMENT, ACRES	G	GROUND, GAS LINE, GRAM GAGE	RA	RETURN AIR
A/C	ASPHALTIC CONCRETE	GAL	GALVANIZED	GAD	GRADED
ACB	AIR CIRCUIT BREAKER	GC	GLAZED COATING	RB	RESILIENT VINYL BASE
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED	GFI	GROUND FAULT INTERRUPT	RCP	REFLECTED CONCRETE PIPE, REFLECTED CEILING PLAN
ACST	ACOUSTIC	GFMU	GROUND FACE MASONRY UNIT	RD	ROOF DRAIN, ROAD
AD	AREA DRAIN, ACCESS DOOR	GL	GLASS	RECP	RECEPTACLE
ADJ	ADJUSTABLE	GR	GRADE	GRD	REDUCING
AFF	ABOVE FINISHED FLOOR	GSU	GRAZED STRUCTURAL UNIT	REINF	REINFORCEMENT
AHU	AIR HANDLING UNIT	GW	GROUND WATER	REG	REGULATOR, REGISTER
ALT	ALTERNATE	GWV	GYPSUM WALL BOARD	REQD	REQUIRED
AL	ALUMINUM	GYP	GYPSUM	REV	REVISION
AM	ACOUSTIC MATERIAL	HGT,H	HEIGHT, HUMIDIFIER	RF	ROOF, RETURN FAN
AMP,A	AMPERE	HB	HOSE BIBB	RHC	REHEAT COIL
AP	ACCESS PANEL	HC	HANDICAPPED	RI	RUBBER INSULATED
APPROX	APPROXIMATE	HD	HARD DRAWN	RGS	RIGID GALVANIZED STEEL
ARCH	ARCHITECTURAL	HDW	HARDWARE	RL	RAIN LEADER
ARR	ARRESTOR	HGSW	HORN GAP SWITCH	RM	ROOM
ASPH	ASPHALT	HID	HIGH INTENSITY DISCHARGE	RPM	REVOLUTIONS PER MINUTE
B	BASELINE	HORIZ	HORIZONTAL	RVT	RESILIENT VINYL TILE
BO	BOARD	HPS	HIGH PRESSURE SODIUM	S	SECOND, SOUTH, SANITARY, SEWER, STRUCTURE
BEJ	BRICK EXPANSION JOINT	HR	HOUR	SAN	SANITARY SEWER
BLDG	BUILDING	HS	HIGH STRENGTH	SATC	SUSPENDED ACOUSTICAL TILE
BLK	BLOCK	HW	HOT WATER, HEADWALL	SCH	CEILING
BM	BEAM	HWL	HIGH WATER LEVEL	SD	SCHEDULE
B	BOTTOM	HVY	HEAVY	SE	SOUTHEAST
BRG	BEARING	HZ	HERTZ	SECT	SECTION SERV SERVICE SF SILT FENCE
BR	BOTTOM REGISTER	ID	INSIDE DIAMETER, INSIDE DIMENSION	SG	SUPPLY GRILLE
BSMT	BASEMENT	IE	INVERT ELEVATION	SH	SHEET
C	CELSIUS	IMC	INTERMEDIATE METAL CONDUIT	SIM	SIMILAR
CAP	CAPACITY	INT	INTERIOR	1 PH	SINGLE PHASE
CB	CIRCUIT BREAKER	INSUL	INSULATION, INSULATED	SKCP	SUSPENDED KEENE'S CEMENT PLASTER
CD	CEILING DIFFUSER	INV	INVERT	SL	SLOPE
CEM	CEMENT	INTX	INTERSECTION	SMH	SANITARY MODULE
CG	CORNER GUARD	IP	INLET PROTECTION	SP	STATIC PRESSURE, SINGLE POLE
CGG	CURB AND GUTTER	IRBF	INDUSTRIAL RESIN BASE FLOORING	SPC	SUSPENDED PLASTER CEILING
CH	CHILLER	JB	JUNCTION BOX	SPDT	SINGLE POLE, DOUBLE THROW SPECIFICATION
CI	CAST IRON, COURTYARD INLET	JC	JANITOR CLOSET	SPEC	SPECIFICATION
CIP	CAST IRON PIPE, CAST IN PLACE	JCT	JUNCTION	SPST	SINGLE POLE, SINGLE THROW
CIR	CIRCULATING	JT	JOINT	SQ	SQUARE
CJ	CIRCUIT	JST	JOIST	SR	REGISTER
CKT	CIRCUIT	K	KILO	SS	SANITARY SEWER
CLG	CEILING	KIAC	THOUSAND AMP INTERRUPT CAPACITY	ST	STEAM, SINGLE THROW, STREET
CLR	CLEAR	KCP	KEENE'S CEMENT PLASTER	STA	STATION STD STANDARD
CMP	CORRUGATED METAL PIPE	KN	KILONEWTON	STL	STEEL SUP SUPPORT
CMPA	CORRUGATED METAL PIPE ARCH	KO	KNOCK OUT	SUSP	SUSPENDED
CMU	CONCRETE MASONRY UNITS	KV	KILOVOLT	SV	SHEET VINYL
CND,C	CONDUIT	KVA	KILOVOLT-AMPERE	SW	SWITCH, SIDEWALK
CNDS	CONDENSATE	KW	KILOWATT	SWBD	SWITCHBOARD
CO	CLEANOUT	L/S	LITERS PER SECOND	SWGR	SWITCHGEAR
CODP	CLEANOUT W/ DECK PLUG	L	LOUVER, LENGTH, LENGTH OF CURVE	T	TILE, TOP, TANGENT
COL	COLUMN	LA	LIGHTNING ARRESTOR	T&B	TOP AND BOTTOM
COMM	COMMUNICATION	LC	LEAD COVERED	TC	TOP OF CURB
CONC	CONCRETE	LL	LIVE LOAD	TEL	TELEPHONE
COND	CONDUCTOR	LLH	LONG LEG HORIZONTAL	TEMP	TEMPERATURE, TEMPORARY
CONN	CONNECTION	LLV	LONG LEG VERTICAL	TERM	TERMINAL
CONST	CONSTRUCTION	LT	LONG LEG VERTICAL	3/C	THREE CONDUCTOR
CONT	CONTINUOUS	LAV	LAVATORY VERTICAL	3 WAY	THREE WAY
CONV	CONVERTER	LVC	LENGTH OF VERTICAL CURVE	TH	TOTAL HEAD (PUMPS)
COP,CU	COPPER	LVS	LITERS PER SECOND	THRSLD	THRESHOLD
CP	NON-REINFORCED CONCRETE PIPE	M/S	METERS PER SECOND	TO	TOP OF
CR	CHAIR, CRASH RAIL	M	METER, MEGA	TP	TEST PIT
CRS	STAINLESS STEEL	MACH	MACHINE	TR	TOP REGISTER
CS	CONCRETE SEALER/SURFACE	MAS	MASONRY	TRANS	TRANSITION
CSK	COUNTERSUNK	MATL	MATERIAL	TS	TOP OF STEEL, TOP OF STONE, TOP OF SLAB
CT	CERAMIC TILE, CURRENT TRANSFORMER, COOLING TOWER CENTER, COOLING TOWER RETURN	MAX	MAXIMUM	TV	TELEVISION
CTR	COOLING TOWER SUPPLY	MCH	MECHANICAL	TW	TOP OF WALL
CTS	COLD WATER	MET	MET	TYP	TYPICAL
CW	CAPILLARY WATER BARRIER	MH	MANHOLE	UG	UNDERGROUND
CWB	CONTRACTION	MIN	MINIMUM, MINUTE	UCR	UNDER COUNTER
CONTR	CARPET	MISC	MISCELLANEOUS	UGR	UNDERGROUND ELECTRIC
CPT	CARPET	MLO	MAIN LUG ONLY	UGE	UNDERGROUND TELEPHONE
D	DEPTH, DEEP, DEGREE OF CURVATURE	MM,mm	MILLIMETER	UH	UNIT HEATER
DB	DRY BULB, DECIBEL, DIRECT BURIAL	MO	MOTOR OPERATED, MASONRY OPENING, MIDDLE ORDINATE	UNO	UNLESS NOTED OTHERWISE
DD	DIVERSION DIKE	MP	MOUNTED	V	VENT, VOLT, VALVE
DET	DETAIL	MTD	MOUNTING	VA	VOLT AMPRE
DH	DRILL HOLE	MMP	MEMBRANE WATERPROOFING	VAC	VACUUM
DI	DUCTILE IRON	MULL	MULLION	VCT	VINYL COMPOSITION TILE
DIA	DIAMETER	N	NORTH	V ASB	VINYL ASBESTOS
DIM	DIMENSION	NA	NOT APPLICABLE	VC	VARNISH CAMBRIC, VITRIFIED CLAY
DL	DEAD LOAD	NE	NORTHEAST	VCP	VITRIFIED CLAY PIPE
DMPR	DAMPER	NDC	NOSE DOWN CURB	VENT	VENTILATING
DN	DOWN	NEC	NATIONAL ELECTRIC CODE	VERT	VERTICAL
DIP	DISTRIBUTION PANEL	NEUT	NEUTRAL	VEST	VESTIBULE
DS	DOWNSPOUT, STORM DRAINAGE STRUCTURE	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
DW	DOMESTIC WATER	NO	NUMBER	VPOC	VERTICAL POINT OF CURVE
DWG	DRAWING	NOM	NOMINAL	VPOV	VERTICAL POINT OF TANGENT
DWD	DRINKING WATER DISPENSER	NPS	NOMINAL PIPE SIZE	VS	VENT STACK
E	EAST	NTS	NOT TO SCALE	VTR	VENT THRU ROOF
EA	EACH	NW	NORTHWEST	VWC	VINYL WALL COVERING
EAN	EXCEPT AS NOTED	OA	OUTSIDE AIR	W	WIDTH, WASTE, WATER, WATT, WEST
EAT	ENTERING AIR TEMPERATURE	OC	ON CENTER	W	WIRE, WATER LINE STRUCTURE
EC	EMPTY CONDUIT	OCB	OIL CIRCUIT BREAKER	WA	WATT
EF	EACH FACE, EXHAUST FAN	OPNG	OPENING	WI	WITH
EG	EXHAUST GRILLE	OPP	OPPOSITE	W/O	WITHOUT
EL	ELEVATION	OSD	OPEN SITE DRAIN	WB	WET BULB
ELEC	ELECTRIC	OVHD,OH	OVERHEAD	WC	WATER CLOSET
ELEV	ELEVATOR	Pa	PASCALES	WD	WALK, WINDOW DIMENSION
EMT	ELECTRICAL METALLIC TUBING	P	PIPE, POLE	WOM	WALK OFF MATT
EMER	EMERGENCY	PB	PULL BOX	WL	WATER LEVEL
E/P	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION	WP	WATERPROOF, WEATHERPROOF
EQ	EQUAL	PJV	POST INDICATOR VALVE	WS	WASTE STACK, WATER SURFACE, WATERSTOP
EQUIP	EQUIPMENT	PJF	PREFORMED JOINT FILLER	WT	WEIGHT
ER	EXHAUST REGISTER	PL	PLATE	WWF	WELDED WIRE FABRIC
EVAP	EVAPORATIVE	PLN	PAPER AND LEAD NEOPRENE JACKET	X-FMR	TRANSFORMER
EW	EACH WAY	PLYWD	PLYWOOD	X-STR	UNIT HEATER
EWV	ELECTRIC WATER COOLER	PNT	PANT		
EWH	EXHAUST	PRELIM	PRELIMINARY	2:1 SL	2 HORIZONTAL TO 1 VERTICAL
EXIST	EXISTING	PRESS	PRESSURE	1 ON 2	1 VERTICAL ON 2 HORIZONTAL
EXP	EXPANSION, EXPOSED	PRM	PRIMARY		
EXP JT	EXPANSION JOINT	PRV	PRESSURE RELIEF VALVE		
EXT	EXTERIOR	PS	PULL SWITCH		
F	FIRE, FUSE, FILTER	PT	POINT, POINT OF TANGENT		
FA	FIRE ALARM FABX FIRE ALARM BOX	PTN	PARTITION		
FD	FLOOR DRAIN, FIRE DAMPER	PVC	POINT OF VERTICAL CURVE, POLY VINYL CHLORIDE		
FDN	FOUNDATION	PVI	POINT OF VERTICAL INTERSECTION		
FDR	FEEDER	PVT	POINT OF VERTICAL TANGENT		
FE	FIRE EXTINGUISHER	PVMT	PAVEMENT		
FFE	FINISHED FLOOR ELEVATION				
FH	FIRE HYDRANT				
FHC	FIRE HOSE CABINET				
FIG	FIGURE				
FIN	FINISH				
FL	FLOOR, FLASHING, FLOW LINE				
FLUOR	FLUORESCENT				
4 WAY	FOUR WAY				
FR	FROST PROOF HYDRANT				
FR	FRAME				
FS	FULL SIZE				
FTG	FOOTING				
FJ	FELT JOINT				
FW	FIRE WATER				



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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 1818 Balzar Ave., Las Vegas, NV 89106  
 PROJECT: \_\_\_\_\_  
 SHEET TITLE: **ABBREVIATIONS, RESPONSIBILITY MATRIX AND I.E.C.C. REPORT**

REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24


DRAWN BY: KME  
DATE: \_\_\_\_\_  
JOB NO: 2023-014  
SCALE: AS INDICATED ON DRAWINGS

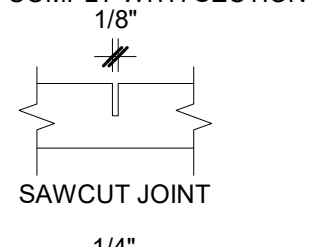
SHEET **G0.01**

# ADA NOTES

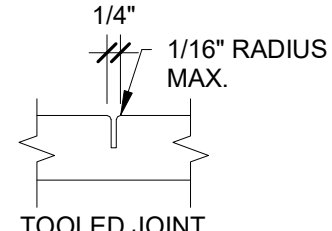
## 302 FLOOR SURFACES

**302.1 GENERAL.** FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT, AND SHALL COMPLY WITH SECTION 302. CHANGES IN LEVEL IN FLOOR SURFACES SHALL COMPLY WITH SECTION 303.

**302.2 CARPET.** CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/JUNCTION PILE TEXTURE. CARPET SHALL BE 12 INCH (305 MM) MAXIMUM IN HEIGHT. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO THE FLOOR AND SHALL HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 303.



**302.3 OPENINGS.** OPENINGS IN FLOOR SURFACES SHALL BE OF SIZE THAT DOES NOT PERMIT THE PASSAGE OF A 1/4 INCH (6.35 MM) DIAMETER SPHERE, EXCEPT AS ALLOWED IN SECTIONS 407.4.3, 408.4.3, 409.4.3, 410.4, 805.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE PREDOMINANT DIRECTION OF TRAVEL.



**303 CHANGES IN LEVEL**

**303.2 VERTICAL.** CHANGES IN LEVEL OF 1/4 INCH (6.4 MM) MAXIMUM IN HEIGHT SHALL BE PERMITTED TO BE VERTICAL. SHALL BE A T-SHAPED SPACE COMPLYING WITH ONE OF THE FOLLOWING: 1. A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, THAT FITS WITHIN AN AREA 68-INCHES (1525 MM) DEEP, WITH TWO ARMS AND ONE BASE THAT ARE ALL 36-INCHES (915 MM) MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 16-INCHES (405 MM) MINIMUM FROM EACH SIDE OF THE BASE LOCATED OPPOSITE THE OTHER, AND THE BASE SHALL EXTEND 24-INCHES (610 MM) MINIMUM FROM THE ARMS. AT THE INTERSECTION OF EACH ARM AND THE BASE, THE INTERIOR CORNERS SHALL BE CHAMFERED FOR 8-INCHES (205 MM) MINIMUM ALONG BOTH THE ARM AND ALONG THE BASE. 2. A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, THAT FITS WITHIN AN AREA 64-INCHES (1625 MM) WIDE AND 60-INCHES (1525 MM) DEEP, WITH TWO ARMS 38-INCHES (965 MM) MINIMUM IN WIDTH AND A BASE 42-INCHES (1065 MM) MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 11-INCHES (280 MM) MINIMUM FROM EACH SIDE OF THE BASE, LOCATED OPPOSITE THE OTHER, AND THE BASE SHALL EXTEND 22-INCHES (560 MM) MINIMUM FROM EACH ARM. 3. A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, 64-INCHES (1625 MM) WIDE AND 60-INCHES (1525 MM) DEEP, WITH TWO ARMS AND ONE BASE 40-INCHES (1015 MM) MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 12-INCHES (305 MM) MINIMUM FROM EACH SIDE OF THE BASE AND THE BASE SHALL EXTEND 20-INCHES (510 MM) MINIMUM FROM EACH ARM.

**303.3 BEVELED.** CHANGES IN LEVEL GREATER THAN 1/4 INCH (6.4 MM) IN HEIGHT AND NOT MORE THAN 1/2 INCH (13 MM) MAXIMUM IN HEIGHT SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

**303.4 RAMPS.** CHANGES IN LEVEL GREATER THAN 1/2 INCH (13 MM) IN HEIGHT SHALL BE BY A RAMP COMPLYING WITH SECTION 405 OR BY A CURB RAMP COMPLYING WITH SECTION 406.

**304 TURNING SPACE**

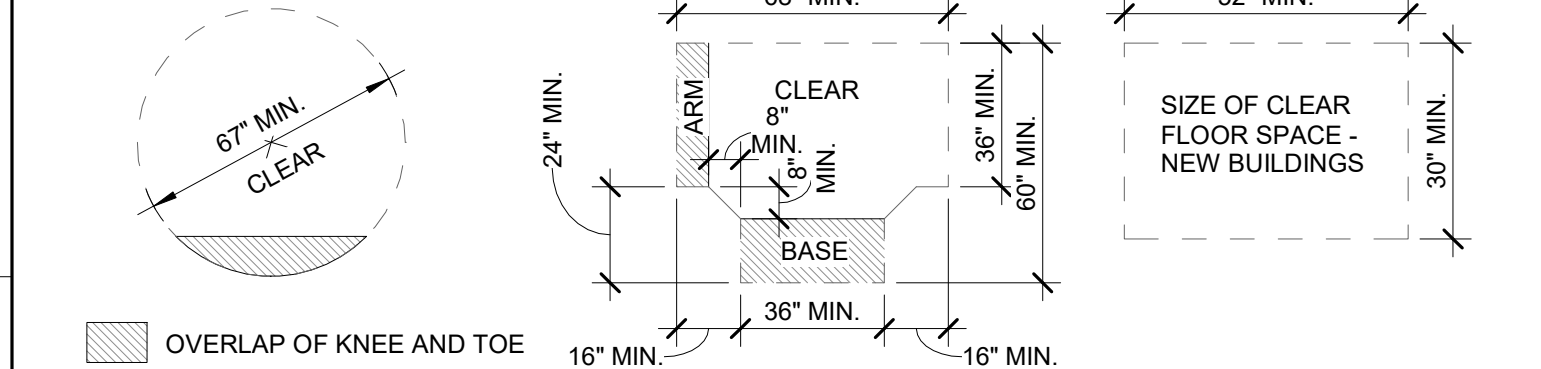
**304.2 FLOOR SURFACE.** FLOOR SURFACES OF A TURNING SPACE SHALL COMPLY WITH SECTION 302. CHANGES IN LEVEL SHALL NOT BE PERMITTED WITHIN THE TURNING SPACE. EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

**304.3.1.1 CIRCULAR SPACE IN NEW BUILDINGS AND FACILITIES.** IN NEW BUILDINGS AND FACILITIES, THE TURNING SPACE SHALL BE A CIRCULAR SPACE WITH A 67-INCH (1700 MM) MINIMUM DIAMETER.

**304.3.1.1.1 OVERLAP.** TURNING SPACES SHALL BE PERMITTED TO INCLUDE KNEE AND TOE COMPLYING WITH SECTION 306. WHERE THE TURNING SPACE INCLUDES KNEE AND TOE CLEARANCES UNDER AN OBSTRUCTION, THE OVERLAP SHALL COMPLY WITH ALL OF THE FOLLOWING: 1. THE DEPTH OF THE OVERLAP SHALL NOT BE MORE THAN 10 INCHES (255 MM), AND 2. THE DEPTH SHALL NOT EXCEED THE DEPTH OF THE KNEE AND TOE CLEARANCES PROVIDED, AND 3. THE OVERLAP SHALL BE PERMITTED ONLY WITHIN THE TURNING CIRCLE AREA SHOWN SHADED IN FIGURE 304.3.1.

**304.3.2.1 T-SHAPED SPACE IN NEW BUILDINGS AND FACILITIES.** IN NEW BUILDINGS AND FACILITIES, THE TURNING SPACE SHALL BE A T-SHAPED SPACE COMPLYING WITH ONE OF THE FOLLOWING: 1. A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, THAT FITS WITHIN AN AREA 68-INCHES (1525 MM) DEEP, WITH TWO ARMS AND ONE BASE THAT ARE ALL 36-INCHES (915 MM) MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 16-INCHES (405 MM) MINIMUM FROM EACH SIDE OF THE BASE LOCATED OPPOSITE THE OTHER, AND THE BASE SHALL EXTEND 24-INCHES (610 MM) MINIMUM FROM THE ARMS. AT THE INTERSECTION OF EACH ARM AND THE BASE, THE INTERIOR CORNERS SHALL BE CHAMFERED FOR 8-INCHES (205 MM) MINIMUM ALONG BOTH THE ARM AND ALONG THE BASE. 2. A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, THAT FITS WITHIN AN AREA 64-INCHES (1625 MM) WIDE AND 60-INCHES (1525 MM) DEEP, WITH TWO ARMS 38-INCHES (965 MM) MINIMUM IN WIDTH AND A BASE 42-INCHES (1065 MM) MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 11-INCHES (280 MM) MINIMUM FROM EACH SIDE OF THE BASE, LOCATED OPPOSITE THE OTHER, AND THE BASE SHALL EXTEND 22-INCHES (560 MM) MINIMUM FROM EACH ARM. 3. A T-SHAPED SPACE, CLEAR OF OBSTRUCTION, 64-INCHES (1625 MM) WIDE AND 60-INCHES (1525 MM) DEEP, WITH TWO ARMS AND ONE BASE 40-INCHES (1015 MM) MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 12-INCHES (305 MM) MINIMUM FROM EACH SIDE OF THE BASE AND THE BASE SHALL EXTEND 20-INCHES (510 MM) MINIMUM FROM EACH ARM.

**304.3.2.1.1 OVERLAP.** TURNING SPACES SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 OF EITHER THE BASE OR ONE ARM. FOR OPTION 1, THE BASE OR ARM IS THE PORTION BEYOND THE CHAMFER.



**304.4 DOOR SWING.** UNLESS OTHERWISE SPECIFIED, DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES.

**305 CLEAR FLOOR SPACE**

**305.2 FLOOR SURFACES.** FLOOR SURFACES OF A CLEAR FLOOR SPACE SHALL COMPLY WITH SECTION 302. CHANGES IN LEVEL SHALL NOT BE PERMITTED WITHIN THE CLEAR FLOOR SPACE. EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

**305.3.1 SIZE IN NEW BUILDINGS AND FACILITIES.** IN NEW BUILDINGS AND FACILITIES, THE CLEAR FLOOR SPACE SHALL BE 52-INCHES (1320 MM) MINIMUM IN LENGTH AND 30 INCHES (760 MM) MINIMUM IN WIDTH.

**305.4 KNEE AND TOE CLEARANCE.** UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306.

**305.5 POSITION.** UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR SPACES SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

**305.6 APPROACH.** ONE FULL, UNOBSTRUCTED SIDE OF A CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR SPACE.

**305.7 ALCOVES.** IF A CLEAR FLOOR SPACE IS IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES, ADDITIONAL MANEUVERING CLEARANCES COMPLYING WITH SECTIONS 305.7.1 AND 305.7.2 SHALL BE PROVIDED, AS APPLICABLE.

**305.7.1 PARALLEL APPROACH.** WHERE A CLEAR FLOOR SPACE IS POSITIONED FOR A PARALLEL APPROACH, THE ALCOVE SHALL BE 60 INCHES (1525 MM) MINIMUM IN WIDTH WHERE THE DEPTH EXCEEDS 15 INCHES (380 MM).

**305.7.2 FORWARD APPROACH.** WHERE A CLEAR FLOOR SPACE IS POSITIONED FOR A FORWARD APPROACH, THE ALCOVE SHALL BE 36 INCHES (915 MM) MINIMUM IN WIDTH WHERE THE DEPTH EXCEEDS 24 INCHES (610 MM).

**306 KNEE AND TOE CLEARANCE**

**306.1 GENERAL.** WHERE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF THE CLEAR FLOOR SPACE AT AN ELEMENT, CLEARANCE AT AN ELEMENT, OR A TURNING SPACE, THE SPACE SHALL COMPLY WITH SECTION 306. ADDITIONAL SPACE SHALL NOT BE PROHIBITED BENEATH AN ELEMENT, BUT SHALL NOT BE CONSIDERED AS PART OF THE CLEAR FLOOR SPACE OR TURNING SPACE.

**306.2.1 GENERAL TOE CLEARANCE.** SPACE BENEATH AN ELEMENT BETWEEN THE FLOOR AND 9 INCHES (230 MM) ABOVE THE FLOOR SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH SECTION 306.2.

**306.2.2 MAXIMUM DEPTH.** TOE CLEARANCE SHALL BE PERMITTED TO EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT.

**306.2.3 MINIMUM DEPTH.** WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, THE TOE CLEARANCE SHALL EXTEND 17 INCHES (430 MM) MINIMUM BENEATH THE ELEMENT.

**306.2.4 ADDITIONAL CLEARANCE.** SPACE EXTENDING GREATER THAN 6 INCHES (150 MM) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (230 MM) ABOVE THE FLOOR SHALL NOT BE CONSIDERED TOE CLEARANCE.

**306.2.5 WIDTH.** TOE CLEARANCE SHALL BE 30 INCHES (760 MM) MINIMUM IN WIDTH.

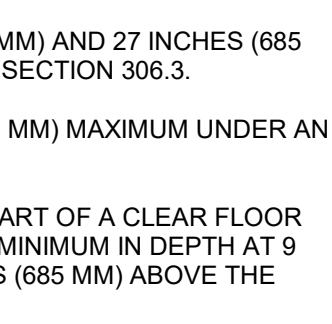
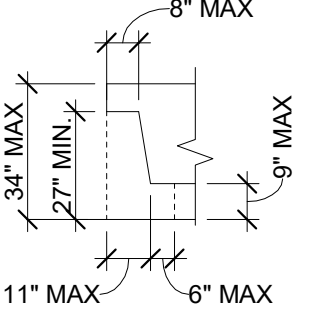
**306.3.1 GENERAL KNEE CLEARANCE.** SPACE BENEATH AN ELEMENT BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FLOOR SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH SECTION 306.3.

**306.3.2 MAXIMUM DEPTH.** KNEE CLEARANCE SHALL BE PERMITTED TO EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT AT 9 INCHES (230 MM) ABOVE THE FLOOR.

**306.3.3 MINIMUM DEPTH.** WHERE KNEE CLEARANCE IS REQUIRED BENEATH AN ELEMENT AS PART OF A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, THE KNEE CLEARANCE SHALL BE 11 INCHES (280 MM) MINIMUM IN DEPTH AT 9 INCHES (230 MM) ABOVE THE FLOOR, AND 8 INCHES (205 MM) MINIMUM IN DEPTH AT 27 INCHES (685 MM) ABOVE THE FLOOR.

**306.3.4 CLEARANCE REDUCTION.** BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FLOOR, THE KNEE CLEARANCE SHALL BE PERMITTED TO BE REDUCED AT A RATE OF 1 INCH (25 MM) IN DEPTH FOR EACH 6 INCHES (150 MM) IN HEIGHT.

**306.3.5 WIDTH.** KNEE CLEARANCE SHALL BE 30 INCHES (760 MM) MINIMUM IN WIDTH.



# ADA NOTES CON'T

## 307 PROTRUDING LIMITS

OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FLOOR SHALL PROTRUDE 4 INCHES (100 MM) MAXIMUM HORIZONTALLY INTO A CIRCULATION PATH. EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES (115 MM) MAXIMUM.

**307.3 POST-MOUNTED OBJECTS.** OBJECTS ON POSTS OR PYLONS SHALL BE PERMITTED TO OVERHANG 4 INCHES (100 MM) MAXIMUM WHERE MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FLOOR. OBJECTS ON MULTIPLE POSTS OR PYLONS WHERE THE CLEAR DISTANCE BETWEEN POSTS OR PYLONS IS GREATER THAN 12 INCHES (305 MM) SHALL HAVE THE LOWEST EDGE OF SUCH OBJECT EITHER 27 INCHES (685 MM) MAXIMUM OR 80 INCHES (2030 MM) MINIMUM ABOVE THE FLOOR. EXCEPTION: SLOPING PORTIONS OF HANDRAILS BETWEEN THE TOP AND BOTTOM RISER OF STAIRS AND ABOVE THE RAMP RUN SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.

**307.4 VERTICAL CLEARANCE.** VERTICAL CLEARANCE SHALL BE 80 INCHES (2030 MM) MINIMUM. RAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES (2030 MM). THE LEADING EDGE OF SUCH RAILS OR BARRIER SHALL BE LOCATED 27 INCHES (685 MM) MAXIMUM ABOVE THE FLOOR. EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FLOOR.

**307.5 REQUIRED CLEAR WIDTH.** PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES.

**308 REACH RANGES**

**308.2.1 UNOBSTRUCTED FORWARD REACH.** WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE FLOOR.

**308.2.2 OBSTRUCTED FORWARD HIGH REACH.** WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 AND KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM ABOVE THE FLOOR WHERE THE REACH DEPTH OVER THE OBSTRUCTION IS 20 INCHES (510 MM) MAXIMUM. THE HIGH FORWARD REACH SHALL BE 44 INCHES (1120 MM) MAXIMUM ABOVE THE FLOOR WHERE THE REACH DEPTH OVER THE OBSTRUCTION IS GREATER THAN 20 INCHES (510 MM) AND NOT MORE THAN 25 INCHES (635 MM) MAXIMUM.

**308.3.1 UNOBSTRUCTED SIDE REACH.** WHERE A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE EDGE OF THE CLEAR FLOOR SPACE IS 10 INCHES (255 MM) MAXIMUM FROM THE ELEMENT, THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE FLOOR. EXCEPTIONS: 1. EXISTING ELEMENTS THAT ARE NOT ALTERED SHALL BE PERMITTED AT 54 INCHES (1370 MM) MAXIMUM ABOVE THE FLOOR. 2. OPERABLE PARTS ON FUEL DISPENSERS INSTALLED ON EXISTING CURBS SHALL BE PERMITTED AT 54 INCHES (1370 MM) MAXIMUM ABOVE THE FLOOR.

**308.3.2 OBSTRUCTED SIDE HIGH REACH.** WHERE A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (865 MM) MAXIMUM ABOVE THE FLOOR AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610 MM) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM ABOVE THE FLOOR FOR A REACH DEPTH OF 10 INCHES (255 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES (255 MM), THE HIGH SIDE REACH SHALL BE 46 INCHES (1170 MM) MAXIMUM ABOVE THE FLOOR FOR A REACH DEPTH OF 24 INCHES (610 MM) MAXIMUM.

**309 OPERABLE PARTS**

**309.1 GENERAL.** OPERABLE PARTS SHALL COMPLY WITH SECTION 309.

- EXCEPTIONS:**
- RECEPTACLE OUTLETS SERVING A DEDICATED USE.
  - WHERE TWO OR MORE RECEPTACLE OUTLETS ARE PROVIDED IN A KITCHEN ABOVE A LENGTH OF COUNTERTOP THAT IS UNINTERRUPTED BY A SINK OR APPLIANCE, ONE RECEPTACLE OUTLET SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.
  - IN A KITCHEN, WHERE A CLEAR FLOOR SPACE FOR A PARALLEL APPROACH CANNOT BE LOCATED AT A COUNTERTOP IN A CORNER BETWEEN APPLIANCES, RECEPTACLE OUTLETS ABOVE THE COUNTERTOP SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION PROVIDED THAT THE COUNTERTOP AREA DOES NOT EXCEED 9 SQUARE FEET (0.835 M<sup>2</sup>) MAXIMUM.
  - FLOOR RECEPTACLE OUTLETS.
  - HVAC DIFFUSERS.
  - CONTROLS MOUNTED ON CEILING FANS.
  - WHERE REDUNDANT CONTROLS OTHER THAN LIGHT SWITCHES ARE PROVIDED FOR A SINGLE ELEMENT, ONE CONTROL IN EACH SPACE SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.
  - RESET BUTTONS AND SHUT-OFFS SERVING APPLIANCES, PIPING AND PLUMBING FIXTURES.
  - ELECTRICAL PANEL BOARDS SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 309.4.
  - EMERGENCY AID DEVICES, SUCH AS FIRE DEPARTMENT HOSE CONNECTIONS, VALVE CONTROLS, GAUGES, POLICE CALL BOXES AND ANNUNCIATOR PANELS SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION PROVIDED THAT THEY ARE USED ONLY FOR EMERGENCIES BY EMERGENCY PERSONNEL ACTING IN THEIR OFFICIAL CAPACITY.

**309.3 HEIGHT.** OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 308.

**309.4 OPERATION.** OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS (22.2 N) MAXIMUM. EXCEPTION: GAS PUMP NOZZLES SHALL NOT BE REQUIRED TO PROVIDE OPERABLE PARTS THAT HAVE AN ACTIVATING FORCE OF 5.0 POUNDS (22.2 N) MAXIMUM

**402 ACCESSIBLE ROUTES**

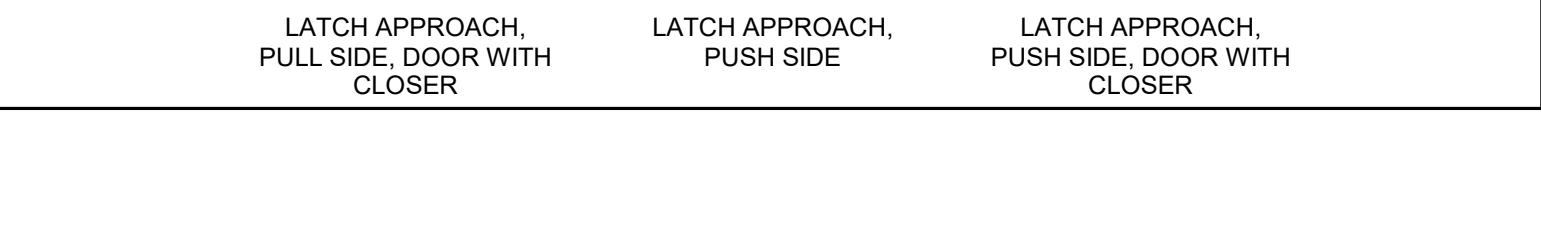
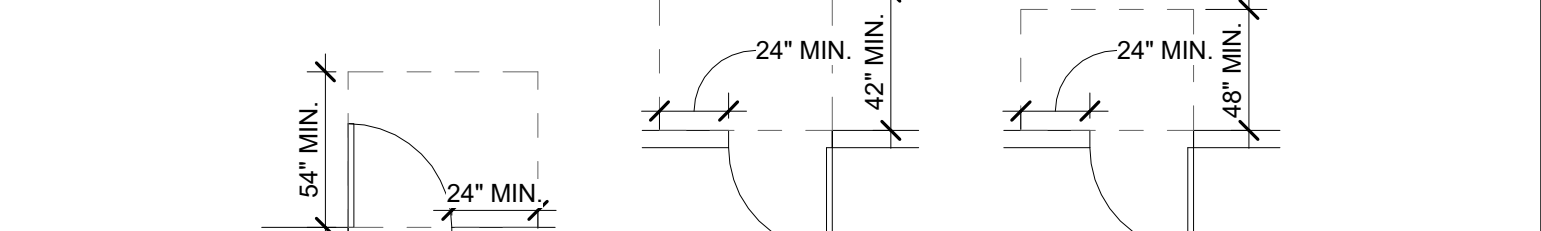
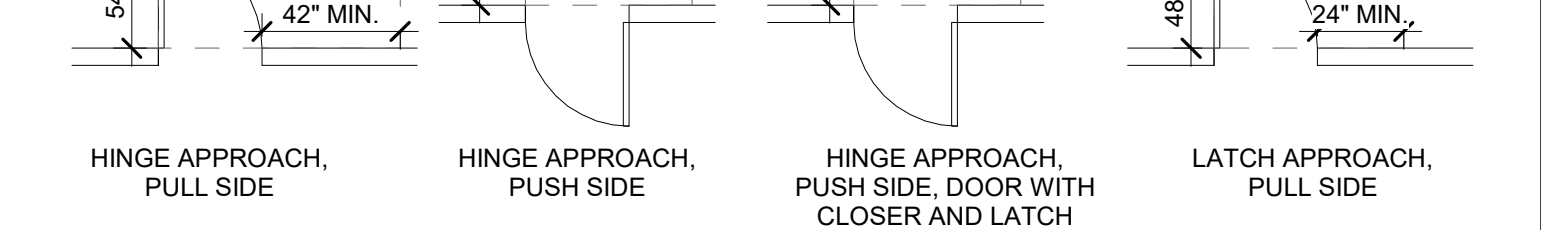
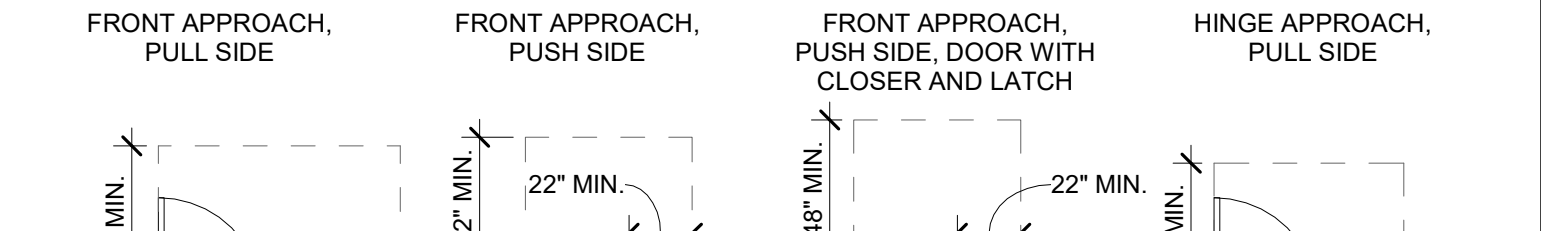
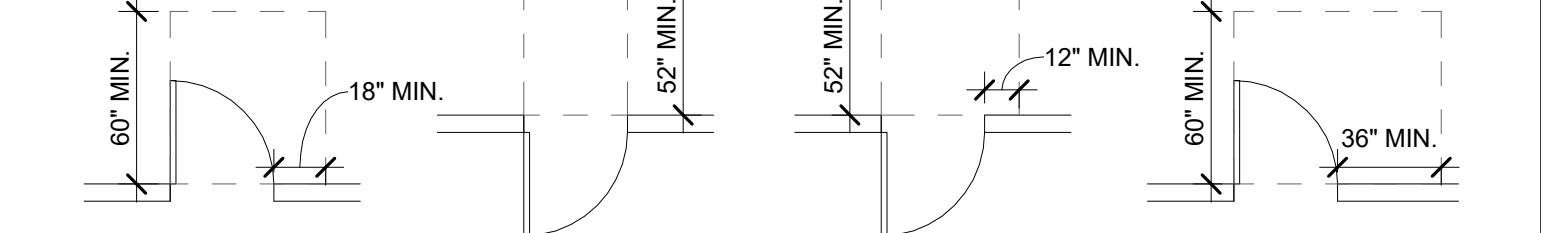
**402.2 COMPONENTS.** ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20. DOORS AND DOORWAYS, GATES, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, BLENDED TRANSITIONS, ELEVATORS AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE PORTIONS OF THIS STANDARD.

**403 WALKING SURFACES**

**403.3 SLOPE.** THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:48.

**403.5.1 CLEAR WIDTH.** THE CLEAR WIDTH OF AN INTERIOR ACCESSIBLE ROUTE SHALL BE 36 INCHES (915 MM) MINIMUM. THE CLEAR WIDTH OF AN EXTERIOR ACCESSIBLE ROUTE SHALL BE 48 INCHES (1220 MM) MINIMUM. EXCEPTIONS:

- IN NEW BUILDINGS AND FACILITIES, THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES (815 MM) MINIMUM FOR A LENGTH OF 24 INCHES (610 MM) MAXIMUM PROVIDED THE REDUCED-WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 52 INCHES (1320 MM) MINIMUM IN LENGTH AND 36 INCHES (915 MM) MINIMUM IN WIDTH.
- THE CLEAR WIDTH OF AN EXTERIOR ACCESSIBLE ROUTE LOCATED WITHIN SEATING AREAS SHALL BE 36 INCHES (915 MM) MINIMUM.



# ADA NOTES CON'T

**403.5.2.1 CLEAR WIDTH AT 180 DEGREE TURN IN NEW BUILDINGS AND FACILITIES.** WHERE AN ACCESSIBLE ROUTE MAKES A 180-DEGREE TURN AROUND AN OBJECT THAT IS EQUAL TO OR GREATER THAN 52 INCHES (1320 MM) IN WIDTH, THE CLEAR WIDTH IN THE TURN SHALL COMPLY WITH SECTION 403.5.1, WHERE AN ACCESSIBLE ROUTE MAKES A 180-DEGREE TURN AROUND AN OBJECT THAT IS LESS THAN 52 INCHES (1320 MM) IN WIDTH, THE CLEAR WIDTHS APPROACHING THE TURN, DURING THE TURN AND LEAVING THE TURN, SHALL BE ONE OF THE FOLLOWING SETS OF DIMENSIONS: 1. APPROACHING WIDTH IS 36 INCHES (915 MM) MINIMUM, DURING WIDTH IS 60 INCHES (1525 MM) MINIMUM, AND LEAVING WIDTH IS 36 INCHES (915 MM) MINIMUM. 2. APPROACHING WIDTH IS 42 INCHES (1065 MM) MINIMUM, DURING WIDTH IS 48 INCHES (1220 MM) MINIMUM, AND LEAVING WIDTH IS 42 INCHES (1065 MM) MINIMUM. 3. APPROACHING WIDTH IS 43 INCHES (1090 MM) MINIMUM, DURING WIDTH IS 43 INCHES (1090 MM) MINIMUM, AND LEAVING WIDTH IS 43 INCHES (1090 MM) MINIMUM.

**403.5.4.1 PASSING SPACE IN NEW BUILDINGS AND FACILITIES.** AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES (1525 MM) SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET (61 M) MINIMUM. PASSING SPACES SHALL BE EITHER A 60-INCH (1525 MM) MINIMUM BY 80-INCH (1525 MM) MINIMUM SPACE, OR AN INTERSECTION OF TWO WALKING SURFACES THAT PROVIDE A T-SHAPED TURNING SPACE COMPLYING WITH SECTION 304.3.2.1, PROVIDED THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 52 INCHES (1320 MM) MINIMUM BEYOND THE INTERSECTION.

**404 DOORS, DOORWAYS AND GATES**

**404.2 MANUAL DOORS, DOORWAYS AND MANUAL GATES.** MANUAL DOORS, DOORWAYS AND MANUAL GATES INTENDED FOR USER PASSAGE SHALL COMPLY WITH SECTION 404.2.

**404.2.1 DOUBLE-LEAF DOORS AND GATES.** AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH SECTIONS 404.2.2 AND 404.2.3.

**404.2.2 CLEAR WIDTH.** DOORWAYS SHALL HAVE A CLEAR OPENING WIDTH OF 32 INCHES (815 MM) MINIMUM. CLEAR OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF TOP AND STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) IN DEPTH AT DOORS AND DOORWAYS WITHOUT DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF 36 INCHES (915 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE CLEAR OPENING WIDTH LOWER THAN 34 INCHES (865 MM) ABOVE THE FLOOR. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (865 MM) AND 80 INCHES (2030 MM) ABOVE THE FLOOR SHALL NOT EXCEED 4 INCHES (100 MM). EXCEPTIONS:

- DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1980 MM) MINIMUM ABOVE THE FLOOR.
- IN ALTERATIONS, A PROJECTION OF 5/8 INCH (16 MM) MAXIMUM INTO THE REQUIRED CLEAR OPENING WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP.

**404.2.3 MANEUVERING CLEARANCES.** MINIMUM CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH SECTION 404.2.3. MANEUVERING CLEARANCES SHALL INCLUDE THE FULL CLEAR OPENING WIDTH OF THE DOORWAY AND THE REQUIRED LATCH-SIDE OR HINGE-SIDE CLEARANCE.

**404.2.3.1 FLOOR SURFACE.** THE FLOOR SURFACE WITHIN THE MANEUVERING CLEARANCES SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH SECTION 302.

**404.2.3.2 SWINGING DOORS AND GATES.** SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.3.2.

**404.2.3.3 SLIDING AND FOLDING DOORS.** SLIDING DOORS AND FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.3.3.

**404.2.3.4 DOORWAYS WITHOUT DOORS OR GATES.** DOORWAYS WITHOUT DOORS OR GATES THAT ARE LESS THAN 36 INCHES (915 MM) IN WIDTH SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.3.4.

**404.2.3.5 RECESSED DOORS AND GATES.** WHERE ANY OBSTRUCTION WITHIN 18 INCHES (455 MM) OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 INCHES (205 MM) BEYOND THE FACE OF THE DOOR OR GATE, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE, MANEUVERING CLEARANCES FOR A FORWARD APPROACH SHALL BE PROVIDED.

**404.2.4 THRESHOLDS.** IF PROVIDED, THRESHOLDS AT DOORWAYS SHALL BE 1/2 INCH (13 MM) MAXIMUM IN HEIGHT. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SECTIONS 302 AND 303. EXCEPTION: AN EXISTING OR ALTERED THRESHOLD SHALL BE PERMITTED TO BE 3/4 INCH (19 MM) MAXIMUM IN HEIGHT PROVIDED THAT THE THRESHOLD HAS A BEVELED EDGE ON EACH SIDE WITH A MAXIMUM SLOPE OF 1:2 FOR THE HEIGHT EXCEEDING 1/4 INCH (6.4 MM).

**404.2.5 TWO DOORS OR GATES IN SERIES.** DISTANCE BETWEEN TWO HINGED OR SWINGING DOORS OR GATES IN SERIES SHALL BE 48 INCHES (1220 MM) MINIMUM PLUS THE WIDTH OF ANY DOOR OR GATE PIVOTED INTO THE SPACE. THE SPACE BETWEEN THE DOORS AND GATES SHALL PROVIDE A TURNING SPACE.

**404.2.6 DOOR AND GATE HARDWARE.** HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. THE OPERATIONAL FORCE TO RETRACT LATCHES OR DISENGADE DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION SHALL BE AS FOLLOWS:

- HARDWARE OPERATION BY A FORWARD, PUSHING OR PULLING MOTION: 15 POUNDS (66.7 N) MAXIMUM.
- HARDWARE OPERATION BY A ROTATIONAL MOTION: 28 INCH-POUNDS (315 N.CM) MAXIMUM.

**404.2.6.1 HARDWARE HEIGHT.** OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES (865 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FLOOR. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITIONS, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

**404.2.7.1 DOOR AND GATE CLOSERS.** DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR OR GATE TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM.

**404.2.7.2 SPRING HINGES.** DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.

**404.2.8 DOOR AND GATE OPENING FORCE.** FIRE DOORS AND DOORS OR GATES REQUIRED TO BE EQUIPPED WITH PANIC HARDWARE, BREAK AWAY FEATURES OR OTHER FACTORS REQUIRING HIGHER OPENING FORCE FOR SAFETY REASONS SHALL HAVE THE MINIMUM OPERATING FORCE FOR PUSHING OR PULLING MOTION AS SPECIFIED IN APPROPRIATE ADMINISTRATIVE AUTHORITY. FOR OTHER DOORS OR GATES, THE FORCE FOR PUSHING OR PULLING OPEN DOORS OR GATES SHALL BE AS FOLLOWS:

- INTERIOR HINGED DOOR: 5.0 POUNDS (22.2 N) MAXIMUM.
  - SLIDING OR FOLDING DOOR: 5.0 POUNDS (22.2 N) MAXIMUM.
- EXCEPTION: THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGADE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION SHALL NOT APPLY TO PANIC HARDWARE, DELAYED EGRESS DEVICES OR FIRE-RATED HARDWARE.

**404.2.9 DOOR AND GATE SURFACE.** DOOR AND GATE SURFACES WITHIN 10 INCHES (255 MM) OF THE FLOOR, MEASURED VERTICALLY, SHALL BE SMOOTH SURFACES ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. DOOR AND GATE HARDWARE OR ANY OTHER OBSTRUCTION OR PROTRUSION SHALL NOT BE MOUNTED IN NOR EXTEND INTO THE AREA WITHIN 10 INCHES (255 MM) OF THE FLOOR. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN SUCH SURFACES SHALL BE WITHIN 1/16 INCH (1.6 MM) OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

**EXCEPTIONS:**

- SLIDING DOORS SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.
- TEMPERED GLASS DOORS WITHOUT STILES AND HAVING A BOTTOM RAIL OR SHOE WITH THE TOP LEADING EDGE TAPERED AT NO LESS THAN 60 DEGREES FROM THE HORIZONTAL SHALL NOT BE REQUIRED TO COMPLY WITH THE 10-INCH (255 MM) BOTTOM RAIL HEIGHT REQUIREMENT.
- DOORS AND GATES THAT DO NOT EXTEND TO WITHIN 10 INCHES (255 MM) OF THE FLOOR SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.
- THE INSTALLATION OF KICK PLATES ON EXISTING DOORS AND GATES WITHOUT A SMOOTH SURFACE WITHIN 10 INCHES (255 MM) OF THE FLOOR SHALL BE PERMITTED. THE KICK PLATES SHALL EXTEND TO 10 INCHES (255 MM) ABOVE THE FLOOR AND NO MORE THAN 1 INCH (25 MM) FROM THE SIDES AND BOTTOM OF THE DOOR. CAVITIES CREATED BY SUCH KICKPLATES SHALL BE CAPPED.

**404.2.10 VISION LITES.** DOORS, GATES AND SIDELITES ADJACENT TO DOORS OR GATES CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE PANEL ON EITHER THE DOOR, GATE OR AN ADJACENT SIDELITE 43 INCHES (1090 MM) MAXIMUM ABOVE THE FLOOR. EXCEPTION: VISION LITES WITH THE LOWEST PART MORE THAN 66 INCHES (1675 MM) ABOVE THE FLOOR SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.

**404.3 AUTOMATIC AND POWER-ASSISTED DOORS AND GATES.** AUTOMATIC DOORS AND GATES SHALL COMPLY WITH SECTION 404.3. FULL POWERED AUTOMATIC DOORS AND GATES SHALL COMPLY WITH ANSIBHMA A 156.10 LISTED IN SECTION 106.2.7. POWER-ASSIST DOORS AND GATES AND LOW-ENERGY AUTOMATIC DOORS AND GATES SHALL COMPLY WITH ANSIBHMA A 156.19 LISTED IN SECTION 106.2.6.

**404.3.1 PUBLIC ENTRANCES.** WHERE AN AUTOMATIC DOOR OR GATE IS REQUIRED AT A BUILDING OR FACILITY PUBLIC ENTRANCE, IT SHALL BE A FULL POWERED AUTOMATIC OR A LOW-ENERGY AUTOMATIC DOOR OR GATE.

# ADA NOTES

**406.6.1 DETECTABLE WARNINGS.** WHERE DETECTABLE WARNING SURFACES ARE PROVIDED, THEY SHALL COMPLY WITH SECTION 705.

**406.6.2 LOCATIONS FOR DETECTABLE WARNING SURFACES.** DETECTABLE WARNING SURFACES SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS ON PEDESTRIAN ACCESS ROUTES AND AT TRANSIT STOPS:  
1. CURB RAMPS AND BLENDED TRANSITIONS AT PEDESTRIAN STREET CROSSINGS,  
2. PEDESTRIAN REFUGE ISLANDS  
3. PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY.  
4. BOARDING PLATFORM AT TRANSIT STOPS FOR BUSES AND RAIL VEHICLES WHERE THE EDGES OF THE BOARDING PLATFORM ARE NOT PROTECTED BY SCREENS OR GUARDS AND  
5. BOARDING AND ALIGHTING AREAS AT SIDEWALK OR STREET-LEVEL TRANSIT STOPS FOR RAIL VEHICLES WHERE THE SIDE OF THE BOARDING AND ALIGHTING AREAS FACING THE RAIL VEHICLES IS NOT PROTECTED BY SCREENS OR GUARDS.

**EXCEPTION:** DETECTABLE WARNING SURFACES SHALL NOT BE REQUIRED AT PEDESTRIAN REFUGE ISLANDS THAT ARE CUT-THROUGH AT STREET LEVEL AND ARE LESS THAN 6 FEET (1830 MM) IN LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL.

## 502 PARKING SPACES

**502.1 GENERAL.** CAR AND VAN PARKING SPACES IN PARKING LOTS SHALL COMPLY WITH SECTIONS 502.2 THROUGH 502.8. CAR AND VAN PARKING SPACES PROVIDED AS PART OF ON-STREET PARKING SHALL COMPLY WITH SECTIONS 502.9 AND 502.10. WHERE AN ELECTRICAL VEHICLE CHARGING STATION IS PROVIDED AT A PARKING SPACE, IT SHALL COMPLY WITH SECTION 502.11.

**502.2 VEHICLE SPACE SIZE.** CAR PARKING SPACES SHALL BE 96 INCHES (2440 MM) MINIMUM IN WIDTH. VAN PARKING SPACES SHALL BE 132 INCHES (3355 MM) MINIMUM IN WIDTH.  
**EXCEPTION:** WHERE THE ADJACENT ACCESS AISLE IS 96 INCHES (2440 MM) MINIMUM IN WIDTH, VAN PARKING SPACES SHALL BE 96 INCHES (2440 MM) MINIMUM WIDTH.

**502.3 VEHICLE SPACE MARKING.** CAR AND VAN PARKING SPACES SHALL BE MARKED TO DEFINE THE WIDTH, WHERE PARKING SPACES ARE MARKED WITH LINES, THE WIDTH MEASUREMENTS OF PARKING SPACES AND ADJACENT ACCESS AISLES SHALL BE MADE FROM THE CENTERLINE OF THE MARKINGS.  
**EXCEPTION:** WHERE PARKING SPACES OR ACCESS AISLES ARE NOT ADJACENT TO ANOTHER PARKING SPACE OR ACCESSIBLE AISLE, MEASUREMENTS SHALL BE PERMITTED TO INCLUDE THE FULL WIDTH OF THE LINE DEFINING THE PARKING SPACE OR ACCESS AISLE.

**502.4 ACCESS AISLE.** CAR AND VAN PARKING SPACES SHALL HAVE AN ADJACENT ACCESS AISLE COMPLYING WITH SECTION 502.4.

**502.4.1 LOCATION.** ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE. ACCESS AISLES SHALL NOT OVERLAP WITH THE VEHICULAR WAY. PARKING SPACES SHALL BE PERMITTED TO HAVE ACCESS AISLES PLACED ON EITHER SIDE OF THE CAR OR VAN PARKING SPACE. VAN PARKING SPACES THAT ARE ANGLED SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.

**502.4.2 WIDTH.** ACCESS AISLES SERVING CAR AND VAN PARKING SPACES SHALL BE 60 INCHES (1525 MM) MINIMUM IN WIDTH.

**502.4.3 LENGTH.** ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACES THEY SERVE.

**502.4.4 MARKING.** ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM, WHERE ACCESS AISLES ARE MARKED WITH LINES, THE WIDTH MEASUREMENTS OF ACCESS AISLES AND ADJACENT PARKING SPACES SHALL BE MADE FROM THE CENTERLINE OF THE MARKINGS.  
**EXCEPTION:** WHERE ACCESS AISLES OR PARKING SPACES ARE NOT ADJACENT TO ANOTHER ACCESS AISLE OR PARKING SPACE, MEASUREMENTS SHALL BE PERMITTED TO INCLUDE THE FULL WIDTH OF THE LINE DEFINING THE ACCESS AISLE OR PARKING SPACE.

**502.5 FLOOR SURFACES.** PARKING SPACES AND ACCESS AISLES SHALL COMPLY WITH SECTION 302 AND HAVE SURFACE SLOPES NOT STEEPER THAN 1:48. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE.

**502.6 VERTICAL CLEARANCE.** A VERTICAL CLEARANCE OF 98 INCHES (2490 MM) MINIMUM SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:  
1. PARKING SPACES FOR VANS.  
2. THE ACCESS AISLES SERVING PARKING SPACES FOR VANS.  
3. THE VEHICULAR ROUTES SERVING PARKING SPACES FOR VANS.

**502.7 IDENTIFICATION.** WHERE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS, THE SIGN SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 703.6.3.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE". SIGNS SHALL BE 60 INCHES (1525 MM) MINIMUM ABOVE THE FLOOR OF THE PARKING SPACE, MEASURED TO THE BOTTOM OF THE SIGN.

**502.8 RELATIONSHIP TO ACCESSIBLE ROUTES.** PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT CARS AND VANS, WHEN PARKED, DO NOT OBSTRUCT THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES.

**502.9 PARALLEL PARKING SPACES.** ON-STREET PARALLEL PARKING SPACES SHALL COMPLY WITH SECTION 502.9.1. ON-STREET PERPENDICULAR OR ANGLED PARKING SHALL COMPLY WITH SECTION 502.9.2.

**502.9.1 WIDE SIDEWALKS.** WHERE THE WIDTH OF THE ADJACENT SIDEWALK OR AVAILABLE RIGHT-OF-WAY EXCEEDS 14 FEET (4265 MM), AN ACCESS AISLE 60 INCHES (1525 MM) WIDE MINIMUM SHALL BE PROVIDED AT STREET LEVEL THE FULL LENGTH OF THE PARKING SPACE AND SHALL CONNECT TO A PEDESTRIAN ACCESS ROUTE. THE ACCESS AISLE SHALL COMPLY WITH SECTION 502.4 AND SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THE ACCESS AISLE. TWO PARKING SPACES ARE PERMITTED TO SHARE A COMMON ACCESS AISLE.

**502.9.1.1 ALTERATIONS.** IN ALTERATIONS WHERE THE STREET OR SIDEWALK ADJACENT TO THE PARKING SPACES IS NOT ALTERED, AN ACCESS AISLE SHALL NOT BE REQUIRED PROVIDED THE PARKING SPACES ARE LOCATED AT THE END OF THE BLOCK FACE.

**502.9.1.2 NARROW SIDEWALKS.** AN ACCESS AISLE IS NOT REQUIRED WHERE THE WIDTH OF THE ADJACENT SIDEWALK OR THE AVAILABLE RIGHT-OF-WAY IS LESS THAN OR EQUAL TO 14 FEET (4265 MM), WHERE AN ACCESS AISLE IS NOT PROVIDED, THE PARKING SPACES SHALL BE LOCATED AT THE END OF THE BLOCK FACE.

**502.9.2 PERPENDICULAR OR ANGLED PARKING SPACES.** WHERE PERPENDICULAR OR ANGLED PARKING IS PROVIDED, AN ACCESS AISLE 96 INCHES (2440 MM) WIDE MINIMUM SHALL BE PROVIDED AT STREET LEVEL THE FULL LENGTH OF THE PARKING SPACE AND SHALL CONNECT TO A PEDESTRIAN ACCESS ROUTE. THE ACCESS AISLE SHALL COMPLY WITH SECTION 502.4 AND SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THE ACCESS AISLE. TWO PARKING SPACES ARE PERMITTED TO SHARE A COMMON ACCESS AISLE.

**502.10 PARKING METERS AND PARKING PAY STATIONS.** PARKING METERS AND PARKING PAY STATIONS THAT SERVE PARKING SPACES SHALL COMPLY WITH SECTION 309.

**502.10.1 LOCATION.** AT PARALLEL PARKING SPACES, PARKING METERS SHALL BE LOCATED AT THE HEAD OR FOOT OF THE PARKING SPACE.

**502.10.2 DISPLAYS AND INFORMATION.** DISPLAYS AND INFORMATION SHALL BE VISIBLE FROM A POINT LOCATED 40 INCHES (1015 MM) MAXIMUM ABOVE THE CENTER OF THE CLEAR SPACE IN FRONT OF THE PARKING METER OR PARKING PAY STATION.

**502.11 ELECTRICAL VEHICLE CHARGING STATIONS.** AN ELECTRICAL VEHICLE CHARGING STATION SERVING A PARKING SPACE SHALL COMPLY WITH SECTION 502.11.

**502.11.1 OPERABLE PARTS.** OPERABLE PARTS ON THE CHARGING STATION INTENDED FOR OPERATIONS BY THE USER, INCLUDING CARD READERS, SHALL COMPLY WITH SECTION 309.

**502.11.2 ACCESSIBLE ROUTE.** AN ACCESSIBLE ROUTE SHALL BE PROVIDED FROM THE ACCESS AISLE ADJACENT TO THE PARKING SPACE TO THE CLEAR FLOOR SPACE COMPLYING WITH SECTION 502.11.1 ADJACENT TO THE VEHICLE CHARGING STATION WHEN THE VEHICLE IS BEING CHARGED, THE ACCESSIBLE ROUTE SHALL NOT BE OBSTRUCTED BY THE CABLE BETWEEN THE CAR AND CHARGING STATION.

502.11.3 OBSTRUCTIONS. PROTECTION BOLLARDS, CURBS OR WHEEL STOPS SHALL BE LOCATED SO THAT THEY DO NOT OBSTRUCT THE CLEAR FLOOR SPACE REQUIRED BY SECTION 502.11.1 OR THE ACCESSIBLE ROUTE REQUIRED BY SECTION 502.11.2.

## 504 STAIRWAYS

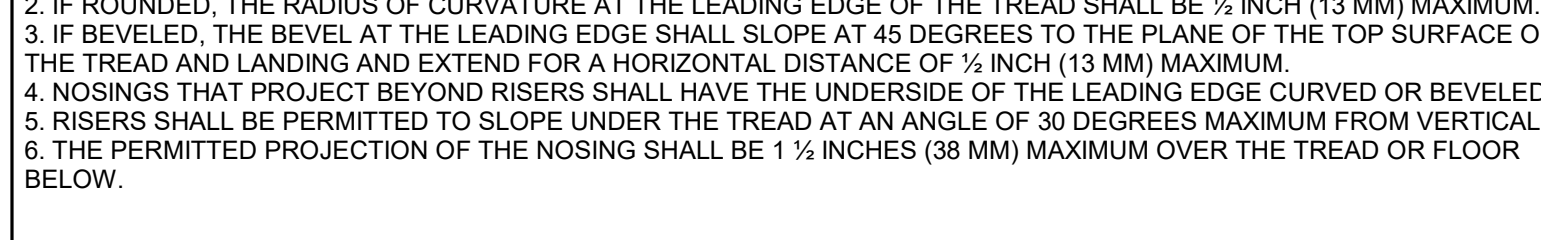
**504.1 GENERAL.** ACCESSIBLE STAIRS SHALL COMPLY WITH SECTION 504.

**504.2 TREADS AND RISERS.** ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHT AND UNIFORM TREAD DEPTH. RISERS SHALL BE 4 INCHES (100 MM) MINIMUM AND 7 INCHES (180 MM) MAXIMUM IN HEIGHT. TREADS SHALL BE 11 INCHES (280 MM) MINIMUM IN DEPTH.

**504.3 OPEN RISERS.** OPEN RISERS SHALL NOT BE PERMITTED.

**504.4 TREAD SURFACE.** STAIR TREADS SHALL COMPLY WITH SECTION 302. AND SHALL HAVE A SLOPE NOT STEEPER THAN 1:48.

**504.5 NOSINGS.** NOSINGS SHALL COMPLY WITH THE FOLLOWING:  
1. NOSINGS WITHIN A STAIRWAY SHALL BE UNIFORM.  
2. IF ROUNDED, THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH (13 MM) MAXIMUM.  
3. IF BEVELED, THE BEVEL AT THE LEADING EDGE SHALL SLOPE AT 45 DEGREES TO THE PLANE OF THE TOP SURFACE OF THE TREAD AND LANDING AND EXTEND FOR A HORIZONTAL DISTANCE OF 1/2 INCH (13 MM) MAXIMUM.  
4. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED.  
5. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL.  
6. THE PERMITTED PROJECTION OF THE NOSING SHALL BE 1 1/2 INCHES (38 MM) MAXIMUM OVER THE TREAD OR FLOOR BELOW.



# ADA NOTES CON'T

**504.6 VISUAL CONTRAST.** VISUAL CONTRAST SHALL COMPLY WITH EITHER 1 OR 2:  
1. THE LEADING 1/2 TO 2 INCHES (25 TO 51 MM) OF EVERY TREAD AND LANDING, MEASURED HORIZONTALLY FROM THE LEADING EDGE OF THE TREAD, SHALL CONSIST OF A SOLID COLOR HAVING VISUAL CONTRAST OF DARK-ON-LIGHT OR LIGHT-ON-DARK FROM THE REMAINDER OF THE TREAD. THE CONTRASTING MARKING SHALL BE DURABLE AND SHALL EXTEND FROM ONE SIDE OF EACH TREAD TO THE OTHER SIDE OF EACH TREAD.  
2. DURABLE DISTINCTIVE WARNING MARKINGS REQUIRED BY THE ADOPTED BUILDING CODE OR ANSI SAFETY STANDARD.

**504.7 HANDRAILS.** STAIRS SHALL HAVE HANDRAILS COMPLYING WITH SECTION 505.

**504.8 WET CONDITIONS.** STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

**504.9 LIGHTING.** LIGHTING FOR INTERIOR STAIRWAYS SHALL COMPLY WITH SECTION 504.9.

**504.9.1 ILLUMINATION LEVEL.** LIGHTING FACILITIES SHALL BE CAPABLE OF PROVIDING ILLUMINATION OF STAIRS MEASURED AT THE CENTER OF TREAD SURFACES AND ON LANDING SURFACES WITHIN 24 INCHES (610 MM) OF STEP NOSINGS AS FOLLOWS:  
1. A 1-FOOT-CANDLE (10.8 LUX) MINIMUM ILLUMINATION AT TIMES OTHER THAN CONDITIONS OF STAIR USE.  
2. A 10-FOOT-CANDLE (108 LUX) MINIMUM ILLUMINATION DURING CONDITIONS OF STAIR USE.  
3. THE TRANSITION FROM 1-FOOT CANDLE (10.8 LUX) TO 10-FOOT CANDLE (108 LUX) UNDER CONDITIONS OF STAIR USE SHALL BE PERMITTED TO BE ACHIEVED BY AUTOMATIC, MOTION-SENSOR-TYPE LIGHTING SWITCHES PROVIDED THE SWITCH CONTROLLERS COMPLY WITH ALL OF THE FOLLOWING:  
3.1 THE SWITCH CONTROLLERS ARE EQUIPPED FOR FAIL-SAFE OPERATION AND EVALUATED FOR THIS PURPOSE  
3.2 THE MOTION SENSOR IS ACTIVATED BY OCCUPANT MOVEMENT ON THE STAIR OR STAIR LANDINGS  
3.3 THE ILLUMINATION TIMERS ARE SET FOR A MINIMUM 15-MINUTE DURATION.

**504.9.2 LIGHTING CONTROLS.** IF PROVIDED, OCCUPANCY-SENSING AUTOMATIC CONTROLS SHALL ACTIVATE THE STAIRWAY LIGHTING SO THE ILLUMINATION LEVEL REQUIRED BY SECTION 504.9.1 IS PROVIDED ON THE ENTRANCE LANDING, EACH STAIR FLIGHT ADJACENT TO THE ENTRANCE LANDING, AND ON THE LANDINGS ABOVE AND BELOW THE ENTRANCE LANDING PRIOR TO ANY STEP BEING USED.

**504.10 TACTILE SIGNAGE WITHIN THE STAIRWAY ENCLOSURE.** STAIR LEVEL IDENTIFICATION SIGNS IN RAISED CHARACTERS AND BRAILLE COMPLYING WITH SECTIONS 703.3 AND 703.4 SHALL BE LOCATED AT EACH FLOOR LEVEL LANDING IN ALL ENCLOSED STAIRWAYS ADJACENT TO THE DOOR LEADING FROM THE STAIRWELL INTO THE CORRIDOR TO IDENTIFY THE FLOOR LEVEL. THE EXIT DOOR DISCHARGING TO THE OUTSIDE OR TO THE LEVEL OF EXIT DISCHARGE SHALL HAVE A SIGN WITH RAISED CHARACTERS AND BRAILLE STATING "EXIT".

**504.11 TACTILE SIGNAGE AT EXITS.** A SIGN STATING EXIT IN RAISED CHARACTERS AND BRAILLE AND COMPLYING WITH SECTIONS 703.3 AND 703.4 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN AREA OF REFUGE PROVIDING DIRECT ACCESS TO A STAIRWAY, AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

## 505 HANDRAILS

**505.1 GENERAL.** HANDRAILS REQUIRED BY SECTION 405.8 FOR RAMPS, SECTION 504.6 FOR STAIRS, SECTION 1004.3.3 FOR POOL SLOPED ENTRIES AND SECTION 1009.6.2 FOR POOL STAIRS SHALL COMPLY WITH SECTION 505.

**505.2 LOCATION.** HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.  
**EXCEPTIONS:** 1. IN ASSEMBLY SEATING AREAS, HANDRAILS SHALL NOT BE REQUIRED ON BOTH SIDES ALONG AISLE STAIRS. PROVIDED WITH A HANDRAIL EITHER AT THE SIDE OR WITHIN THE AISLE.  
2. IN ASSEMBLY SEATING AREAS, HANDRAILS SHALL NOT BE REQUIRED ON THE SIDES OF RAMPED AISLES SERVING SEATS.

**505.3 CONTINUITY.** HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS. OTHER HANDRAILS SHALL COMPLY WITH SECTIONS 505.10 AND 307.  
**EXCEPTION:** HANDRAILS SHALL NOT BE REQUIRED TO BE CONTINUOUS IN AISLES SERVING SEATING WHERE HANDRAILS ARE DISCONTINUOUS TO PROVIDE ACCESS TO SEATING AND TO PERMIT CROSSOVERS WITHIN THE AISLES.

**505.4 HEIGHT.** TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (865 MM) MINIMUM AND 38 INCHES (965 MM) MAXIMUM VERTICALLY ABOVE STAIR NOSINGS, RAMP SURFACES AND WALKING SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE STAIR NOSINGS, RAMP SURFACES AND WALKING SURFACES.

**505.6 GRIPPING SURFACE.** GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.  
**EXCEPTIONS:** 1. HANDRAIL BRACKETS OR BALUSTERS ATTACHED TO THE BOTTOM SURFACE OF THE HANDRAIL SHALL NOT BE CONSIDERED OBSTRUCTIONS, PROVIDED THE BRACKETS OR BALUSTERS COMPLY WITH THE FOLLOWING CRITERIA:  
1.1 NOT MORE THAN 20 PERCENT OF THE HANDRAIL LENGTH IS OBSTRUCTED.  
1.2 HORIZONTAL PROJECTIONS BEYOND THE SIDES OF THE HANDRAIL OCCUR 1 1/2 INCHES (38 MM) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL, AND PROVIDED THAT FOR EACH 1/2 INCH (13 MM) OF ADDITIONAL HANDRAIL PERIMETER DIB BE REDUCED BY 4 INCHES (100 MM). THE VERTICAL CLEARANCE DIMENSION OF 1 1/2 INCH (38 MM) SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH (3.2 MM), AND  
1.3 EDGES SHALL BE ROUNDED.  
2. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:20, THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS.

**505.7 CROSS SECTION.** HANDRAILS SHALL HAVE A CROSS SECTION COMPLYING WITH SECTION 505.7.1 OR 505.7.2.  
**505.7.1 CIRCULAR CROSS SECTION.** HANDRAILS WITH CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/2 INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM.

**505.7.2 NONCIRCULAR CROSS SECTIONS.** HANDRAILS WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES (100 MM) MINIMUM AND 6 1/2 INCHES (160 MM) MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2 1/2 INCHES (57 MM) MAXIMUM.

**505.8 SURFACES.** HANDRAILS, AND ANY WALL OR OTHER SURFACES ADJACENT TO THEM, SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.

**505.9 FITTINGS.** HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

**505.10 HANDRAIL EXTENSIONS.** HANDRAILS SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH SECTION 505.10.  
**EXCEPTIONS:** 1. CONTINUOUS HANDRAILS AT THE INSIDE TURN OF STAIRS AND RAMPS.  
2. HANDRAIL EXTENSIONS SHALL NOT BE REQUIRED IN AISLES SERVING SEATING WHERE THE HANDRAILS ARE DISCONTINUOUS TO PROVIDE ACCESS TO SEATING AND TO PERMIT CROSS-OVERS WITHIN THE AISLE.  
3. IN ALTERATIONS, FULL EXTENSIONS OF HANDRAILS SHALL NOT BE REQUIRED WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS DUE TO PLAN CONFIGURATION.

**505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS.** RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12 INCHES (305 MM) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR FLOOR, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

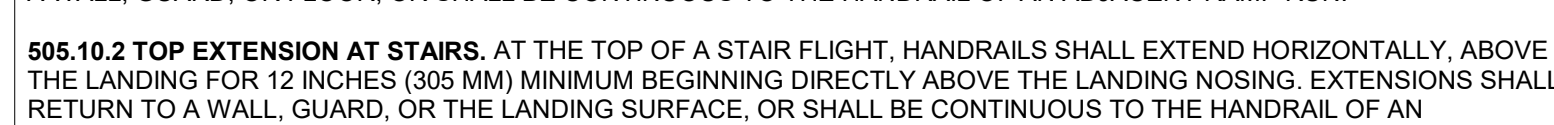
**505.10.2 TOP EXTENSION AT STAIRS.** AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY, ABOVE THE LANDING 12 INCHES (305 MM) MINIMUM BEYOND THE BEGINNING DIRECTLY ABOVE THE TREAD NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

**505.10.3 BOTTOM EXTENSION AT STAIRS.** AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE BOTTOM TREAD NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

## 506 WINDOWS

**506.1 GENERAL.** WHERE OPERABLE WINDOWS ARE PROVIDED IN AN ACCESSIBLE ROOM OR SPACE, AT LEAST ONE SHALL COMPLY WITH SECTION 506. WHERE OPERABLE WINDOWS ARE REQUIRED TO PROVIDE NATURAL VENTILATION OR OPERABLE WINDOWS ARE REQUIRED TO PROVIDE AN EMERGENCY ESCAPE AND RESCUE OPENING, THAT WINDOW SHALL BE THE OPERABLE WINDOW THAT COMPLIES WITH SECTION 506.  
**EXCEPTIONS:** 1. OPERABLE WINDOWS THAT ARE OPERATED ONLY BY EMPLOYEES SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.  
2. OPERABLE WINDOWS IN TYPE A UNITS THAT COMPLY WITH SECTION 1103.13.  
3. OPERABLE SKYLIGHTS SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.

**506.2 OPERATING FORCE.** THE OPERATING FORCE FOR WINDOWS INCLUDES FORCES FOR OPENING, CLOSING, LOCKING OR LATCHING. THE OPERATING FORCE SHALL BE DETERMINED IN ACCORDANCE WITH ANMA 515 LISTED IN SECTION 106.2.13. OPERABLE PARTS FOR LOCKING OR LATCHING AND UNLOCKING OR UNLATCHING SHALL COMPLY WITH SECTION 309. THE OPERATING FORCE FOR OPENING AND CLOSING OPERABLE WINDOWS SHALL BE AS FOLLOWS:  
1. 8.5 POUNDS (37.7 N) MAXIMUM FOR VERTICAL OR HORIZONTAL SLIDING WINDOWS.  
2. 5 POUNDS (22.2 N) MAXIMUM FOR ALL OTHER TYPES OF OPERATING WINDOWS.



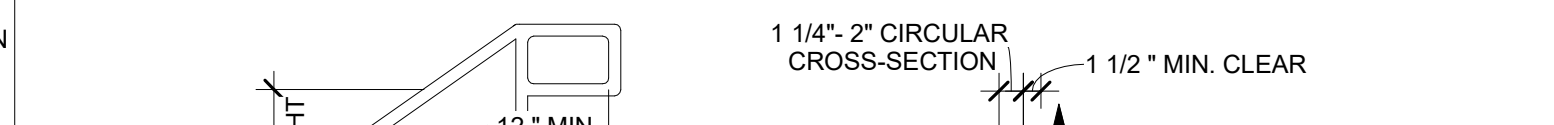
**506.2.1 CLEARANCE WIDTH.** CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES (1525 MM) MINIMUM IN WIDTH, MEASURED PERPENDICULAR FROM THE SIDEWALL.

**506.2.2 CLEARANCE DEPTH.** CLEARANCE AROUND THE WATER CLOSET SHALL BE 56 INCHES (1420 MM) MINIMUM IN DEPTH, MEASURED PERPENDICULAR FROM THE REAR WALL.

**506.2.3 CLEARANCE OVERLAP.** THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

**506.2.4 HEIGHT.** THE HEIGHT OF WATER CLOSET SEATS SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.  
**EXCEPTION:** 1. A WATER CLOSET WHICH IS ADJUSTABLE IN HEIGHT BY THE USER IS PERMITTED PROVIDED THAT AT LEAST ONE ADJUSTMENT SETTING PROVIDES A SEAT WITHIN THE RANGE SPECIFIED IN THIS SECTION.  
2. A WATER CLOSET IN A TOILET ROOM FOR A SINGLE OCCUPANT, ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE, SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.

**506.4.5 GRAB BARS.** GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH SECTION 609 AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 604.5.1 AND 604.5.2. GRAB BARS SHALL BE PROVIDED ON THE REAR WALL AND ON THE SIDE WALL CLOSEST TO THE WATER CLOSET.  
**EXCEPTIONS:** 1. GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN A TOILET ROOM FOR A SINGLE OCCUPANT, ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE, PROVIDED REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF GRAB BARS COMPLYING WITH SECTION 604.5.



# ADA NOTES CON'T

## 507 ACCESSIBLE ROUTES THROUGH PARKING

**507.1 GENERAL.** WHERE ACCESSIBLE ROUTES PASS THROUGH PARKING FACILITIES, THEY SHALL BE PHYSICALLY SEPARATED FROM VEHICULAR TRAFFIC.  
**EXCEPTIONS:** 1. ACCESSIBLE ROUTES CROSSINGS DRIVE AISLES SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.  
2. ACCESSIBLE ROUTES ONLY FROM PARKING SPACES COMPLYING WITH SECTION 502 AND PASSENGER LOADING ZONES COMPLYING WITH SECTION 503 TO ACCESSIBLE ENTRANCES SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION.

## 602 DRINKING FOUNTAINS AND BOTTLE FILLING STATIONS

**602.1 GENERAL.** DRINKING FOUNTAINS FOR PERSONS USING WHEELCHAIRS SHALL COMPLY WITH SECTIONS 602.2 AND 307. DRINKING FOUNTAINS FOR PERSONS WHO ARE STANDING SHALL COMPLY WITH SECTION 602.3 AND 307.

**602.2 DRINKING FOUNTAINS FOR PERSONS USING WHEELCHAIRS.** DRINKING FOUNTAINS FOR PERSONS USING WHEELCHAIRS SHALL COMPLY WITH SECTIONS 602.2.1 THROUGH 602.2.5.

**602.2.1 CLEAR FLOOR SPACE.** A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD APPROACH TO THE DRINKING FOUNTAIN SHALL BE PROVIDED. KNEE AND TOE SPACE COMPLYING WITH SECTION 306 SHALL BE PROVIDED. THE CLEAR FLOOR SPACE SHALL BE CENTERED ON THE DRINKING FOUNTAIN.  
**EXCEPTION:** DRINKING FOUNTAINS PRIMARILY FOR CHILDREN'S USE SHALL BE PERMITTED WHERE A CLEAR FLOOR SPACE PROVIDES A PARALLEL APPROACH AND IS CENTERED ON THE DRINKING FOUNTAIN.

**602.2.2 OPERABLE PARTS.** OPERABLE PARTS SHALL COMPLY WITH SECTION 309.

**602.2.3 SPOUT OUTLET HEIGHT.** SPOUT OUTLETS OF DRINKING FOUNTAINS SHALL BE 36 INCHES (915 MM) MAXIMUM ABOVE THE FLOOR.  
**EXCEPTION:** AT DRINKING FOUNTAINS PRIMARILY FOR CHILDREN'S USE, THE SPOUT OUTLET SHALL BE 30 INCHES (760 MM) MAXIMUM ABOVE THE FLOOR.

**602.2.4 SPOUT LOCATION.** THE SPOUT SHALL BE LOCATED 15 INCHES (380 MM) MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES (125 MM) MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS.  
**EXCEPTION:** AT DRINKING FOUNTAINS PRIMARILY FOR CHILDREN'S USE, THE SPOUT SHALL BE LOCATED 3 1/2 INCHES (90 MM) MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS.

**602.2.5 WATER FLOW.** THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES (100 MM) MINIMUM IN HEIGHT. THE ANGLE OF THE WATER STREAM FROM SPOUTS WITHIN 3 INCHES (75 MM) OF THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 30 DEGREES MAXIMUM, AND FROM SPOUTS BETWEEN 3 INCHES (75 MM) AND 5 INCHES (125 MM) FROM THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 15 DEGREES MAXIMUM, MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE DRINKING FOUNTAIN.

**602.3 DRINKING FOUNTAINS FOR PERSONS WHO ARE STANDING.** DRINKING FOUNTAINS FOR PERSONS WHO ARE STANDING SHALL COMPLY WITH SECTIONS 602.3.1 THROUGH 602.3.4.

**602.3.1 OPERABLE PARTS.** OPERABLE PARTS SHALL COMPLY WITH SECTIONS 309.3 AND 309.4.

**602.3.2 SPOUT OUTLET HEIGHT.** SPOUT OUTLETS OF DRINKING FOUNTAINS SHALL BE 38 INCHES (965 MM) MINIMUM AND 43 INCHES (1090 MM) MAXIMUM ABOVE THE FLOOR.  
**EXCEPTION:** DRINKING FOUNTAINS PRIMARILY FOR CHILDREN'S USE SHALL BE PERMITTED WHERE THE SPOUT OUTLET IS 30 INCHES (760 MM) MINIMUM AND 43 INCHES (1090 MM) MAXIMUM ABOVE THE FLOOR.

**602.3.3 SPOUT LOCATION.** THE SPOUT SHALL BE LOCATED 5 INCHES (125 MM) MAXIMUM FROM THE FRONT EDGE OF THE DRINKING FOUNTAIN, INCLUDING BUMPERS.

**602.3.4 WATER FLOW.** THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES (100 MM) MINIMUM IN HEIGHT. THE ANGLE OF THE WATER STREAM FROM SPOUTS WITHIN 3 INCHES (75 MM) OF THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 30 DEGREES MAXIMUM, AND FROM SPOUTS BETWEEN 3 INCHES (75 MM) AND 5 INCHES (125 MM) FROM THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 15 DEGREES MAXIMUM, MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE DRINKING FOUNTAIN.

**602.4 BOTTLE FILLING STATIONS.** BOTTLE FILLING STATIONS SHALL COMPLY WITH SECTIONS 602.4.1 AND 602.4.2.  
**EXCEPTION:** WHERE BOTTLE FILLING STATIONS ARE PART OF THE DRINKING FOUNTAIN FOR PERSONS WHO ARE STANDING, THE BOTTLE FILLING STATION IS NOT REQUIRED TO COMPLY WITH THIS SECTION PROVIDED A BOTTLE FILLING STATION IS LOCATED AT THE DRINKING FOUNTAIN FOR PERSONS USING WHEELCHAIRS.

**602.4.1 CLEAR FLOOR SPACE.** A CLEAR FLOOR SPACE POSITIONED FOR A FORWARD OR SIDE APPROACH SHALL BE PROVIDED.

**602.4.2 CONTROLS.** CONTROLS FOR BOTTLE FILLING STATIONS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED CONTROLS SHALL COMPLY WITH SECTION 309.

## 603 TOILET AND BATHING ROOMS

**603.1 TURNING SPACE CLEARANCE.** A TURNING SPACE SHALL BE PROVIDED WITHIN THE ROOM. THE REQUIRED TURNING SPACE SHALL NOT BE PROVIDED WITHIN A TOILET COMPARTMENT.

**603.2.2 DOOR SWING CLEARANCE.** DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE.  
**EXCEPTIONS:** 1. DOORS TO A TOILET OR BATHING ROOM FOR A SINGLE OCCUPANT, ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE, PROVIDED THE SWING OF THE DOOR CAN BE REVERSED TO COMPLY WITH SECTION 603.2.2.  
2. WHERE THE ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305.3 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, THE DOOR SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 603.2.2.

**603.3 MIRRORS.** WHERE MIRRORS ARE LOCATED ABOVE LAVATORIES, A MIRROR SHALL BE LOCATED OVER THE LAVATORY COMPLYING WITH SECTION 606 AND SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES (1015 MM) MAXIMUM ABOVE THE FLOOR. WHERE MIRRORS ARE LOCATED ABOVE COUNTERS THAT DO NOT CONTAIN LAVATORIES, THE MIRROR SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES (1015 MM) MAXIMUM ABOVE THE FLOOR.  
**EXCEPTION:** OTHER THAN WITHIN ACCESSIBLE DWELLING OR SLEEPING UNITS, MIRRORS SHALL NOT BE REQUIRED OVER THE LAVATORIES OR COUNTERS IF A MIRROR IS LOCATED WITHIN THE SAME TOILET OR BATHING ROOM AND MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES (890 MM) MAXIMUM ABOVE THE FLOOR.

**603.4 COAT HOOKS AND SHELVES.** COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN SECTION 308. SHELVES SHALL BE 40 INCHES (1015 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FLOOR.

**603.5 DIAPER CHANGING TABLES.** DIAPER CHANGING TABLES SHALL COMPLY WITH SECTIONS 309 AND 902.

## 604 WATER CLOSETS AND TOILET COMPARTMENTS

**604.1 GENERAL.** WATER CLOSETS AND TOILET COMPARTMENTS SHALL COMPLY WITH SECTION 604. COMPARTMENTS CONTAINING MORE THAN ONE PLUMBING FIXTURE SHALL COMPLY WITH SECTION 603. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH SECTION 604.9. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH SECTION 604.10.  
**EXCEPTION:** WATER CLOSETS AND TOILET COMPARTMENTS PRIMARILY FOR CHILDREN'S USE SHALL BE PERMITTED TO COMPLY WITH SECTION 604.11 AS APPLICABLE.

**604.2 LOCATION.** THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 18 INCHES (465 MM) MINIMUM AND 18 INCHES (465 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION. WATER CLOSETS LOCATED IN AMBULATORY ACCESSIBLE TOILET COMPARTMENTS SPECIFIED IN SECTION 604.10 SHALL HAVE THE CENTERLINE OF THE WATER CLOSET 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION.

**604.3.1 CLEARANCE WIDTH.</**



### ADA NOTES CON'T

**705.2 DETECTABLE WARNING SURFACES**  
**705.2 STANDARDIZATION.** DETECTABLE WARNING SURFACES SHALL BE STANDARD WITHIN A BUILDING, FACILITY, SITE, OR COMPLEX OF BUILDINGS.  
**705.3 CONTRAST.** DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.  
**705.4 INTERIOR LOCATIONS.** DETECTABLE WARNING SURFACES IN INTERIOR LOCATIONS SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.  
**705.5.1 TRUNCATED DOMES SIZE.** TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH (23 MM) MINIMUM AND 1.4 INCH (36 MM) MAXIMUM, AND A TOP DIAMETER OF 50 PERCENT MINIMUM AND 65 PERCENT MAXIMUM OF THE BASE DIAMETER.  
**705.5.2 HEIGHT.** TRUNCATED DOMES SHALL HAVE A HEIGHT OF 0.2 INCH (5.1 MM).  
**705.5.3 SPACING.** TRUNCATED DOMES SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES (41 MM) MINIMUM AND 2.4 INCHES (61 MM) MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH (16.5 MM) MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE GRID.  
**705.5.4 ALIGNMENT.** TRUNCATED DOMES SHALL BE ALIGNED IN A SQUARE GRID PATTERN.  
**705.6 DEPTH AND WIDTH OF DETECTABLE WARNING SURFACES.** DETECTABLE WARNINGS SHALL COMPLY WITH FOLLOWING:  
 1. DETECTABLE WARNING SURFACES SHALL EXTEND 24 INCHES (610 MM) MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL.  
 2. AT CURB RAMPS AND BLENDED TRANSITIONS, DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP RUN EXCLUDING ANY FLARED SIDES OR BLENDED TRANSITIONS.  
 3. AT PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY, DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CROSSING.  
 4. AT BOARDING PLATFORMS FOR BUSES AND RAIL VEHICLES, DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM.  
 5. AT BOARDING AND ALIGHTING AREAS AT SIDEWALK OR STREET LEVEL TRANSIT STOPS FOR RAIL VEHICLES, DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL LENGTH OF THE TRANSIT STOP.  
**705.7 PLACEMENT.** THE PLACEMENT OF DETECTABLE WARNING SURFACES SHALL COMPLY WITH SECTION 705.7.  
**705.7.1 PERPENDICULAR CURB RAMPS.** ON PERPENDICULAR CURB RAMPS, DETECTABLE WARNING SURFACES SHALL BE PLACED AS FOLLOWS:  
 1. WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE IN FRONT OF THE BACK OF CURB, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE BACK OF CURB.  
 2. WHERE THE ENDS OF THE BOTTOM GRADE BREAK ARE BEHIND THE BACK OF CURB AND THE DISTANCE FROM EITHER END OF THE BOTTOM GRADE BRAKE TO THE BACK OF CURB IS 60 INCHES (1525 MM) OR LESS, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE RAMP RUN WITHIN ONE DOME SPACING OF THE BOTTOM GRADE BREAK.  
 3. WHERE THE ENDS OF THE BOTTOM GRADE BRAKE ARE BEHIND THE BACK OF CURB AND THE DISTANCE FROM EITHER END OF THE BOTTOM GRADE BREAK TO THE BACK OF CURB IS MORE THAN 60 INCHES (1525 MM), DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE LOWER LANDING AT THE BACK OF CURB.  
**705.7.2 PARALLEL CURB RAMPS.** ON PARALLEL CURB RAMPS, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND SIDE-WALK.  
**705.7.3 BLENDED TRANSITIONS.** ON BLENDED TRANSITIONS, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE BACK OF CURB, WHERE RAISED PEDESTRIAN STREET CROSSINGS, DEPRESSED CORNERS OR OTHER LEVEL PEDESTRIAN STREET CROSSINGS ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE FLUSH TRANSITION BETWEEN THE STREET AND THE SIDEWALK.  
**705.7.4 PEDESTRIAN REFUGE ISLANDS.** AT CUT-THROUGH PEDESTRIAN REFUGE ISLANDS, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE EDGES OF THE PEDESTRIAN ISLAND AND SHALL BE SEPARATED BY 24 INCHES (610 MM) MINIMUM LENGTH OF SURFACE WITHOUT DETECTABLE WARNINGS.  
**705.7.5 PEDESTRIAN AT-GRADE RAIL CROSSINGS.** AT PEDESTRIAN AT-GRADE RAIL CROSSINGS NOT LOCATED WITHIN A STREET OR HIGHWAY, DETECTABLE WARNING SURFACES SHALL BE PLACED ON EACH SIDE OF THE RAIL CROSSING, THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE RAIL CROSSING SHALL BE 6 FEET (1830 MM) MINIMUM AND 15 FEET (4680 MM) MAXIMUM FROM THE CENTERLINE OF THE NEAREST RAIL, WHERE PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL.  
**705.7.6 BOARDING PLATFORMS.** AT BOARDING PLATFORMS FOR BUSES AND RAIL VEHICLES, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE BOARDING EDGE OF THE PLATFORM.  
**705.7.7 BOARDING AND ALIGHTING AREAS.** AT BOARDING AND ALIGHTING AREAS AT SIDEWALK OR STREET-LEVEL TRANSIT STOPS FOR RAIL VEHICLES, DETECTABLE WARNING SURFACES SHALL BE PLACED AT THE SIDE OF THE BOARDING AND ALIGHTING AREA FACING THE RAIL VEHICLES.  
**708 TWO-WAY COMMUNICATION SYSTEMS**  
**708.1 GENERAL.** TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH SECTION 708.  
**708.2 AUDIBLE AND VISUAL INDICATORS.** THE SYSTEM SHALL PROVIDE BOTH VISUAL AND AUDIBLE SIGNALS.  
**708.3 HANDSETS.** HANDSET CORDS, IF PROVIDED, SHALL BE 29 INCHES (735 MM) MINIMUM IN LENGTH.  
**708.4 TELEPHONE ENTRY SYSTEMS.** TELEPHONE ENTRY SYSTEMS SHALL COMPLY WITH ANSIDASMA 303 LISTED IN SECTION 106.2.5.

### GENERAL NOTES

- THESE BID DOCUMENTS ARE FOR GENERAL REFERENCE ONLY AND SHALL NOT BE SCALED OR USED IN LIEU OF ACTUAL VERIFICATION OF ALL EXISTING CONDITIONS AND QUANTITIES.
- THE PURPOSE OF THE DETAILS, DRAWINGS AND SPECIFICATIONS INCLUDED AS PART OF THESE CONSTRUCTION DOCUMENTS ARE TO BEST ILLUSTRATE THE DESIGN INTENT OF THE PROJECT. ANY CLARIFICATION OR ADDITIONAL INFORMATION REQUIRED BY THE CONTRACTOR SHALL BE MADE PRIOR TO SUBMITTAL OF THE GENERAL CONTRACTOR'S FINAL BID. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY UNDERSTAND THE DESIGN INTENT AT THE TIME OF THE BID. ANY CLARIFICATION, ADDITIONAL INFORMATION, DETAILS, SITE VISITS OR ENGINEERED CALCULATIONS OR DRAWINGS REQUIRED AFTER THE FINAL BID HAS BEEN RECEIVED BY THE OWNER WILL BE CHARGED TO THE CONTRACTOR AS AN HOURLY RATE PER DISCIPLINE REQUIRED AT AN ADDITIONAL COST TO THE GENERAL CONTRACTOR. ALL ADDITIONAL CONSTRUCTION COSTS WILL ALSO BE AT THE EXPENSE OF THE GENERAL CONTRACTOR.
- PRODUCTS AND/OR COLOR SELECTIONS LISTED ARE NOT INTENDED TO LIMIT THE SELECTION OF EQUAL PRODUCTS MEETING ALL PRODUCT REQUIREMENTS AS THOSE LISTED WITHIN THESE DRAWINGS AND SPECIFICATIONS FROM OTHER MANUFACTURERS. THE CONTRACTOR MUST BID BASED OFF SPECIFIED MATERIALS PROVIDED IN DRAWINGS AND SPECIFICATIONS. CONTRACTOR TO FOLLOW PRODUCT SUBSTITUTIONS PROVIDED BY OWNER FOR ALL ALTERNATES ONLY AFTER BID AWARD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH A PROPOSED SUBSTITUTION AND ALL REQUIRED WORK TO ACCEPT SUCH SUBSTITUTION WITHIN THE CONSTRUCTION. SUCH COSTS SHALL INCLUDE, BUT NOT LIMITED TO ARCHITECT AND ENGINEER'S REVIEW AND DESIGN COSTS. OWNER SHALL NOT BE RESPONSIBLE FOR ANY INCREASES IN ACCEPTED BID AMOUNT SHOULD PROVIDED ALTERNATES NOT BE FOUND ACCEPTABLE.
- IN SUBMITTING A PROPOSAL, IT WILL BE CONSTRUED BY THE OWNER AND ARCHITECT THAT THE BIDDER HAS CAREFULLY CHECKED ALL THE DETAILS AND HAS ENSURED THAT THEY CONFORM IN EVERY ASPECT WITH THESE REQUIREMENTS. ALL WORK REQUIRED BY THESE REGULATIONS SHALL BE INCLUDED IN THE CONTRACT SUM. FAILURE ON THE PART OF THE CONTRACTOR TO EXAMINE ALL CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS JUSTIFICATION TO CLAIMS FOR EXTRA OR ADDITIONAL PAYMENT ABOVE CONTRACT PRICE.
- ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS MAY NOT BE CONFIRMED AND ARE ONLY A REPRESENTATION OF VISIBLE INVESTIGATIONS OR EXISTING DRAWINGS PROVIDED BY THE OWNER. UNLESS SPECIFICALLY NOTED, NO INVESTIGATION HAS BEEN COMPLETED AND IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND IDENTIFY ELEMENTS THAT MAY BE DIFFERENT THAN CONDITIONS SHOWN IN THE DRAWINGS AND NOTIFY THE ARCHITECT.
- GENERAL CONTRACTOR TO VERIFY THAT ALL TRADES HAVE REVIEWED THE COMPLETE SET OF BID DOCUMENTS. THE GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION DOCUMENTS WITH ALL CONSULTANTS AND SUBCONTRACTORS.
- SHOULD A CONFLICT OR DISCREPANCY OCCUR BETWEEN THE DRAWINGS AND SPECIFICATIONS THE CONTRACTOR SHALL ABIDE AND INCLUDE IN THEIR BID THE MORE STRINGENT / HIGHER QUALITY / HIGHER EXPENSE OF THE PRODUCTS OR DESIGN.
- GENERAL CONTRACTOR SHALL FIELD INVESTIGATE ALL EXISTING SITE AND BUILDING CONDITIONS, UTILITIES, EXISTING DIMENSIONS, ETC. AS WELL AS DIMENSIONS ON THE DRAWINGS FOR CONFLICTS PRIOR TO BIDDING AND/OR CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONCERNS WITHIN THE CONTRACT DOCUMENTS AND SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE, LOCATE AND CONFIRM ALL FLOOR DRAINS, TRENCH DRAINS, UNDERGROUND/ OVERHEAD PLUMBING, ELECTRICAL, STUB-UPS, UTILITIES, ETC. THAT MAY INTERFERE WITH THE CONSTRUCTION OF THE PROJECT PRIOR TO BIDDING.
- THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION MACHINERY, TRANSPORTATION AND OTHER FACILITIES OR SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK IN ITS ENTIRETY.
- THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES REQUIRED FOR THE SAFE EXECUTION AND COMPLETION OF THE WORK BETWEEN THE TRADES TO COMPLETE ALL ELEMENTS OF THE CONTRACT DOCUMENTS. ADDITIONAL WORK NOT DOCUMENTED AND REQUIRED TO COMPLETE THE DESIGN INTENT OF THESE DOCUMENTS SHALL BE INCLUDED AS PART OF THE CONTRACT PRICE AT THE TIME OF BID. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION, SUPERVISION, AND DIRECTION OF THE WORK USING THEIR BEST SKILL AND ATTENTION. CONTRACTOR TO PHASE SEQUENCE OF CONSTRUCTION PER OWNER'S REQUIREMENTS. ANY REVISED DETAILS, DRAWINGS, ENGINEERING, REPORTS, TESTS, ETC. REQUIRED AS A RESULT OF WORK THAT IS NOT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS OR AS A RESULT OF REPAIRING POOR WORKMANSHIP WILL BE AT THE EXPENSE OF THE GENERAL CONTRACTOR.
- CONTRACTOR TO VERIFY EXISTING CONDITION OF FIRE AND EMERGENCY ALARM SYSTEMS AND REPLACE OR INSTALL NEW SYSTEM AS REQUIRED PER REQUIREMENTS OF THE FIRE DEPARTMENT AND / OR FIRE MARSHAL.
- THE CONTRACTOR SHALL PROVIDE ALL DESIGNS FOR THE FIRE SPRINKLER SYSTEM. CONTRACTOR SHALL PROVIDE AND COORDINATE FIRE SPRINKLER AND / OR FIRE ALARM DRAWINGS WITH THE CONSTRUCTION DOCUMENTS AND PROVIDE AS A SEPARATE SUBMITTAL TO THE CITY/COUNTY/OWNER AS REQUIRED.
- WHEN APPLICABLE, CONTRACTOR TO PROVIDE FIRE KNOX BOX PER FIRE DEPARTMENT AND / OR FIRE MARSHAL REQUIREMENTS.
- THE GENERAL CONTRACTOR TO PROVIDE ALL GOVERNMENTAL REQUIRED SIGNAGE AS REQUIRED BY THE FIRE PROTECTION REPORT AND AS NECESSARY FOR THE CERTIFICATE OF OCCUPANCY (E.G. FIRE LANE SIGNAGE, "DO NOT BLOCK DOOR", MAXIMUM OCCUPANCY, ETC.).
- THE CONTRACTOR SHALL APPLY FOR AND OBTAIN AT THE CONTRACTOR'S SOLE EXPENSE ALL NECESSARY CONSTRUCTION PERMITS, TESTS, FEES, INSPECTIONS, AND RELATED COSTS UNLESS DIRECTED OTHERWISE BY THE OWNER OR SUPPLEMENTARY INSTRUCTIONS.
- THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO THE LIMIT OF WORK SHOWN HEREIN. SUCH OPERATIONS SHALL BE LIMITED TO THOSE PERMITTED BY LAW, ORDINANCES, PERMITS, AND THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT UNREASONABLY ENCUMBER THE SITE WITH MATERIALS AND/OR EQUIPMENT. THE JOB SITE SHALL BE KEPT CLEAN AND IN ORDERLY CONDITION, FREE OF DEBRIS AND LITTER. EACH SUBCONTRACTOR UPON COMPLETION OF EACH PHASE OF THEIR WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF THEIR OPERATION BY THE END OF EACH DAY. ALL MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION UNTIL USED. FAILURE TO PROTECT MATERIALS MAY BE CAUSE FOR REJECTION OF WORK. THE CONTRACTOR SHALL STORE MATERIALS IN SPACES DESIGNATED BY THE OWNER. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOFS. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- THE CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS AND REPORT ALL EXISTING DAMAGE TO BUILDING OR PROPERTY, SITE IMPROVEMENT, ETC. PRIOR TO ACCEPTANCE FROM THE OWNER FOR ALL CONSTRUCTION ACTIVITIES. WHEN APPLICABLE, THE CONTRACTOR SHALL PROVIDE ALLOWANCE FOR REMOVAL OR REPLACEMENT OF MATERIALS CALLED OUT AS "EXISTING," "EXISTING TO REMAIN," IF THESE APPEAR TO BE WORN, CRACKED, DAMAGED, ETC. PRIOR TO SUBMITTING BID. ALL ELEMENTS NOT REPORTED PRIOR TO ACCEPTANCE MAY BE SUBJECT TO FULL REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RETURN ANY EXISTING AREAS THAT HAVE BECOME DAMAGED DURING THE CONSTRUCTION PROCESS TO THEIR ORIGINAL CONDITION.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO ORDERING, PURCHASING, FABRICATION, OR INSTALLATION OF ANY MATERIAL, PRODUCT, EQUIPMENT, OR SYSTEMS REQUIRED BY THE WORK. NO PORTION OF THE WORK REQUIRING A SHOP DRAWING OR SAMPLE SUBMISSION SHALL BE COMMENCED UNTIL THE ARCHITECT HAS REVIEWED AND APPROVED THE SUBMISSION. ALL MATERIALS SHALL BE NEW AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH ALL THE MANUFACTURER'S INSTRUCTIONS AND/OR RECOMMENDATIONS UNLESS INDICATED OTHERWISE IN THE DRAWINGS AND SPECIFICATIONS. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH REVIEWED SHOP DRAWINGS AND SAMPLES.
- DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE PROGRESS MEETINGS WITH THE OWNER AND ARCHITECT AND DOCUMENT AND DISTRIBUTE THE MEETING MINUTES. THE MEETING MINUTES SHALL PROVIDE DOCUMENTATION OF WORK PROGRESS INCLUDING PROJECT SCHEDULE, THREE-WEEK LOOK AHEAD, RT'S AND SUBMITTAL LOGS, SITE CONDITIONS AND/OR GENERAL OBSERVATIONS, AND INCLUDE THEM IN SCHEDULED WEEKLY MEETINGS OR AS DETERMINED BY ARCHITECT, AND ON SITE OR AT LOCATION DETERMINED BY THE OWNER AND/OR ARCHITECT. THE CONTRACTOR SHALL PROVIDE UPDATES TO ARCHITECT A MINIMUM OF 24 HOURS PRIOR TO THE SCHEDULED MEETING FOR ARCHITECT TO DISCUSS DURING SCHEDULED MEETINGS. THE CONTRACTOR SHALL KEEP EXTRA PERSONAL PROTECTIVE EQUIPMENT (PPE), CLOTHING AND EQUIPMENT (IE., SAFETY VEST, HARD HAT, EYE AND FACE PROTECTION, ETC.) ON THE JOB SITE FOR THE USE OF THE OWNER, THE ARCHITECT, OR THEIR CONSULTANTS.
- THE CONTRACTOR TO PHASE THE SEQUENCE OF CONSTRUCTION PER THE OWNER'S REQUIREMENTS. THE CONTRACTOR TO PROVIDE SITE SECURITY AS REQUIRED.
- CONTRACTOR SHALL INCLUDE WITHIN THEIR SCHEDULING ALL APPLICABLE REVIEWS, TESTING, SEQUENCES, APPROVALS, PUNCH WALKS, UTILITY SHUTDOWNS, ETC. NECESSARY TO COMPLETE THE INSTALLATION OF ALL THE REQUIRED ELEMENTS TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION, OWNER, AND ARCHITECT, AND TO MEET THE REQUIRED DEADLINES SET FORTH BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION COSTS, INCLUDING LABOR AND OVERTIME, TO MEET ORIGINAL DEADLINE PER CONTRACT DOCUMENTS.
- WHEN APPLICABLE, REMOVAL OF ASBESTOS AND OTHER HAZARDOUS MATERIALS SHALL BE COMPLETED PER THE INSTRUCTION OF THE HAZARDOUS MATERIAL REPORT PROVIDED BY THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO THE INSTRUCTIONS OF THE REPORT. THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE.

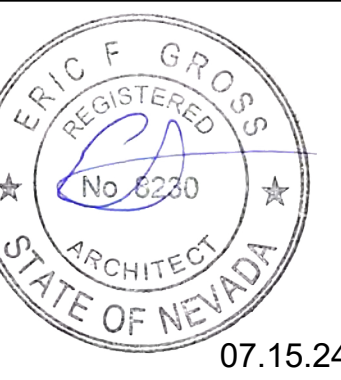
### GENERAL NOTES

- UNLESS NOTED OTHERWISE THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL REQUIREMENTS FOR COORDINATION OF OWNER'S EQUIPMENT IS PROVIDED. THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, OPENINGS, AND CHARACTERISTICS OF ALL WORK AND FIXTURES, AND EQUIPMENT TO BE SUPPLIED BY THE OWNER OR OTHERS WITH MANUFACTURER OR SUPPLIER BEFORE STARTING ANY CONSTRUCTION RELATED TO SAID WORK AND/OR EQUIPMENT.
- ALL ELEMENTS LABELED EXISTING TO REMAIN ARE TO BE OPERATIONAL.
- WHEN APPLICABLE, THE CONTRACTOR SHALL PROVIDE STARTUP, MAINTENANCE, AND OPERATIONAL TRAINING TO THE OWNER AND/OR THEIR REPRESENTATIVE FOR NEW HVAC EQUIPMENT.
- THE CONTRACTOR WARRANTS THE OWNER AND ARCHITECT THAT ALL WORK AND PRODUCTS WILL BE NEW AND OF HIGH QUALITY, FREE FROM FAULTS AND DEFECTS AND IN STRICT CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. ALL WORK NOT CONFORMING TO THESE STANDARDS MAY BE CONSIDERED DEFECTIVE. IT IS UNDERSTOOD THAT NO INFERIOR OR NON-CONFORMING WORK OR MATERIALS WILL BE ACCEPTED WHETHER DISCOVERED AT THE TIME THEY ARE INCORPORATED OR ANYTIME THEREAFTER. THE CONTRACTOR SHALL WARRANT ALL WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. IF A DIFFERENT WARRANTY PERIOD FOR ANY PRODUCT IS LISTED WITHIN THE CONTRACT DOCUMENTS, THE LONGER WARRANTY PERIOD SHALL GOVERN. MANUFACTURER INFORMATION FOR INSTALLED PRODUCTS SHOULD NOT BE VISIBLE TO THE PUBLIC. ALL MATERIALS SHALL BE SUPPLIED AND MANUFACTURED PER CODE REQUIREMENTS OF THE GOVERNING JURISDICTION, OR AS SPECIFIED, WHICHEVER IS MORE STRINGENT.
- CONTRACTOR TO INCLUDE \$500,000 CONTINGENCY FOR ALL UNDERGROUND UTILITY WORK, INCLUDING BUT NOT LIMITED TO NEW NV ENERGY, SW GAS, COX, LUMEN OR OTHER ENTITY. THIS \$500,000 CONTINGENCY DOES NOT INCLUDE ANY AND ALL WATER, SEWER OR OTHER UTILITY DEPICTED WITHIN THESE DRAWINGS.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

SHEET TITLE:  
**ADA REQUIREMENTS GENERAL NOTES AND UL LISTING**

REVISIONS		
No.	Description	Date

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
ON ALL SCALE DRAWINGS

SHEET  
**G0.05**

# COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title: Bennett Plaza Commercial  
 Location: Las Vegas, Nevada  
 Climate Zone: 3b  
 Project Type: New Construction  
 Vertical Glazing / Wall Area: 9%

Construction Site: 1818 Balzar Ave, North Las Vegas, Nevada 89032  
 Owner/Agent: Southern Nevada Regional housing Authority, 340 N. 11th Street, Las Vegas, Nevada 89101  
 Designer/Contractor: KME Architects, 5195 S. Durango Dr, Suite 103, Las Vegas, Nevada 89113, 7028882088

**Additional Efficiency Package(s)**  
 Credits: 1.0 Required 1.0 Proposed  
 Reduced Lighting Power, 1.0 credit

Building Area	Floor Area
1-Conditioned Space (Multifamily) - Nonresidential	16439

## Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sub>req</sub>
ROOF: Attic Roof, Wood Joists, [Bldg. Use 1 - Conditioned Space]	4903	19.0	0.0	0.053	0.027
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Conditioned Space] (c)	251	---	---	0.730	0.730
<b>NORTH</b> EXT. WALL- NORTH: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Conditioned Space]	1524	19.0	0.0	0.087	0.084
Fixed Windows: Vinyl Frame: Operable, Perf. Specs.: Product ID TBD, SHGC 0.23, [Bldg. Use 1 - Conditioned Space] (b)	48	---	---	0.300	0.600
Fixed Storefront: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID TBD, SHGC 0.23, [Bldg. Use 1 - Conditioned Space] (b)	69	---	---	0.300	0.480
Glass Sliding door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID TBD, SHGC 0.23, [Bldg. Use 1 - Conditioned Space] (b)	67	---	---	0.300	0.770
<b>EAST</b> EXT. WALL- EAST: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Conditioned Space]	2382	19.0	0.0	0.067	0.064
Operable Windows: Vinyl Frame: Operable, Perf. Specs.: Product ID TBD, SHGC 0.23, [Bldg. Use 1 - Conditioned Space] (b)	109	---	---	0.300	0.600
Fixed Storefront at Terraces: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID TBD, SHGC 0.23, [Bldg. Use 1 - Conditioned Space] (b)	81	---	---	0.300	0.480
Operable Door at Terraces: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID TBD, SHGC 0.23, [Bldg. Use 1 - Conditioned Space] (b)	42	---	---	0.300	0.770

Project Title: Bennett Plaza Commercial Report date: 07/02/24  
 Data filename: Page 1 of 19

# COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title: Bennett Plaza Commercial  
 Location: Las Vegas, Nevada  
 Climate Zone: 3b  
 Project Type: New Construction

Construction Site: 1818 Balzar Ave, North Las Vegas, Nevada 89032  
 Owner/Agent: Southern Nevada Regional housing Authority, 340 N. 11th Street, Las Vegas, Nevada 89101  
 Designer/Contractor: KME Architects, 5195 S. Durango Dr, Suite 103, Las Vegas, Nevada 89113, 7028882088

**Additional Efficiency Package(s)**  
 Credits: 1.0 Required 1.0 Proposed  
 Reduced Lighting Power, 1.0 credit

**Mechanical Systems List**

Quantity	System Type & Description
4	FC/HP 1-3, FC/HP 1-4, FC/HP 1-5, FC/HP 1-8 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 26 kBtu/h, Proposed Efficiency = 9.90 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 23 kBtu/h, Unknown Economizer Proposed Efficiency = 17.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00 Fan System: 3 TON FAN - Compliance (Motor nameplate HP and fan efficiency method) : Passes
3	IU/OU-1, IU/OU-2, IU/OU-3 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 24 kBtu/h, Proposed Efficiency = 9.10 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 16 kBtu/h, Unknown Economizer Proposed Efficiency = 19.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00 Fan System: MINI SPLIT FAN - Compliance (Motor nameplate HP and fan efficiency method) : Passes
9	FC/HP 1-1, FC/HP 1-8, FC/HP2-1, FC/HP 2-7, FC/HP 3-1, FC/HP 3-7, FC/HP 2C-X, FC/HP 2D-X, FC/HP 2E-X (Single Zone): Split System Heat Pump Heating Mode: Capacity = 21 kBtu/h, Proposed Efficiency = 9.20 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 23 kBtu/h, Unknown Economizer Proposed Efficiency = 19.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00 Fan System: 2 TON FAN - Compliance (Motor nameplate HP and fan efficiency method) : Passes
14	FC/HP 1-2, FC/HP 1-6, FC/HP 2-2, FC/HP 2-4, FC/HP 2-5, FC/HP2-6, FC/HP 3-2, FC/HP 3-3, FC/HP 3-4, FC/HP (Single Zone): Split System Heat Pump Heating Mode: Capacity = 20 kBtu/h, Proposed Efficiency = 9.50 HSPF, Required Efficiency = 8.20 HSPF Cooling Mode: Capacity = 21 kBtu/h, Unknown Economizer Proposed Efficiency = 17.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00 Fan System: 1.5 TON FAN - Compliance (Motor nameplate HP and fan efficiency method) : Passes

Project Title: Bennett Plaza Commercial Report date: 07/02/24  
 Data filename: Page 5 of 19

Quantity	System Type & Description
3	Fans: FAN 3 Supply, Single-Zone VAV, 594 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Single fan <= SHP SYSTEM COMPLIANCE FAILS: Economizer requirements have not been met. Total proposed cooling capacity without economizer (665 kBtu/h) must be <= Total allowable cooling capacity without economizer (300 kBtu/h)

**Mechanical Compliance Statement**  
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Bennett Plaza Commercial Report date: 07/02/24  
 Data filename: Page 6 of 19

# COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title: Bennett Plaza Commercial  
 Project Type: New Construction

Construction Site: 1818 Balzar Ave, North Las Vegas, Nevada 89032  
 Owner/Agent: Southern Nevada Regional housing Authority, 340 N. 11th Street, Las Vegas, Nevada 89101  
 Designer/Contractor: KME Architects, 5195 S. Durango Dr, Suite 103, Las Vegas, Nevada 89113, 7028882088

**Additional Efficiency Package(s)**  
 Credits: 1.0 Required 1.0 Proposed  
 Reduced Lighting Power, 1.0 credit

**Allowed Exterior Lighting Power**

Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Conditioned Space (Multifamily)	16439	0.61	10061
			Total Allowed Watts = 10061

**Proposed Interior Lighting Power**

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Conditioned Space (Multifamily)				
A1E: LED Panel 36W:	1	51	36	1836
B1/B1E: LED A Lamp 25W:	1	93	28	2604
C1E: LED Panel 36W:	1	18	38	684
D1/D1E: LED Panel 38W:	1	22	38	836
				Total Proposed Watts = 5960

Interior Lighting PASSES: Design 41% better than code

**Interior Lighting Compliance Statement**  
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Bennett Plaza Commercial Report date: 07/02/24  
 Data filename: Page 3 of 19

# COMcheck Software Version COMcheckWeb Inspection Checklist

Energy Code: 2018 IECC  
 Requirements: 0.0% were addressed directly in the COMcheck software  
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1] <sup>1</sup>	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR2] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR4] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR8] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.4.1 [PR10] <sup>1</sup>	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.4.1 [PR11] <sup>1</sup>	The skylight area <= 3 percent of the gross roof area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24  
 Data filename: Page 7 of 19

# COMcheck Software Version COMcheckWeb Exterior Lighting Compliance Certificate

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title: Bennett Plaza Commercial  
 Project Type: New Construction  
 Exterior Lighting Zone: 2 (Residential mixed use area (L22))

Construction Site: 1818 Balzar Ave, North Las Vegas, Nevada 89032  
 Owner/Agent: Southern Nevada Regional housing Authority, 340 N. 11th Street, Las Vegas, Nevada 89101  
 Designer/Contractor: KME Architects, 5195 S. Durango Dr, Suite 103, Las Vegas, Nevada 89113, 7028882088

**Allowed Exterior Lighting Power**

Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	20000 ft2	0.04	Yes	800
				Total Tradable Watts (a) = 800
				Total Allowed Watts = 800
				Total Allowed Supplemental Watts (b) = 400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces  
 (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

**Proposed Exterior Lighting Power**

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Parking area (20000 ft2): Tradable Wattage				
S1: LED Roadway-Parking Unit 220W:	1	5	200	1000
SD: LED Other Fixture Unit 40W:	1	5	30	150
				Total Tradable Proposed Watts = 1150

Exterior Lighting PASSES: Design 4% better than code

**Exterior Lighting Compliance Statement**  
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Bennett Plaza Commercial Report date: 07/02/24  
 Data filename: Page 4 of 19

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C402.4.2 [PR14] <sup>1</sup>	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40, or a minimum skylight effective aperture >= 1 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 [PR9] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24  
 Data filename: Page 8 of 19



5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
 Fax: 702.888.2089  
 Web: www.kmearchitects.com  
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PROJECT: SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave., Las Vegas, NV 89106  
 SHEET TITLE: I.E.C.C. REPORT & CONDITIONAL APPROVAL

REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: KME  
 DATE: 2023-014  
 SCALE: AS INDICATED  
 (CHECK SCALE DRAWING)

SHEET  
 G0.06





Table with 4 columns: Section # & Req.ID, Footing / Foundation Inspection, Complies?, Comments/Assumptions. Includes items like C303.2 (FO4), C303.2.1 (FO6), C105 (FO3), C402.2.4 (FO7), and C403.12.2 (FO9).

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 9 of 19

Table with 4 columns: Section # & Req.ID, Framing / Rough-In Inspection, Complies?, Comments/Assumptions. Includes items like C303.1.3 (FR12), C303.1.3 (FR13), C402.4.3 (FR10), C402.4.3 (FR8), C402.5.1 (FR16), C402.5.2 (FR18), and C402.5.7 (FR17).

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 10 of 19

Table with 4 columns: Section # & Req.ID, Plumbing Rough-In Inspection, Complies?, Comments/Assumptions. Includes items like C404.5, C404.5.1, C404.5.2 (PL6), C404.6.3 (PL7), and C404.7 (PL8).

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 11 of 19

Table with 4 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Complies?, Comments/Assumptions. Includes items like C402.2.6 (ME41), C402.5.5 (ME3), C403.11.3 (ME6), C403.8.4 (ME142), C403.8.5 (ME143), C403.12.1 (ME71), C403.2.2 (ME59), C403.7.1 (ME59), C403.7.2 (ME15), C403.7.6 (ME11), and C403.7.4 (ME57).

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 12 of 19

Table with 4 columns: Section # & Req.ID, Mechanical Rough-In Inspection, Complies?, Comments/Assumptions. Includes items like C403.7.5 (ME116), C403.11.1 (ME60), C403.5.1 (ME62), C403.4.3 (ME121), C403.4.1 (ME63), and C408.2.2 (ME53).

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 13 of 19

Table with 4 columns: Section # & Req.ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Includes items like C405.2.2 (EL22), C405.2.1 (EL18), C405.2.1 (EL19), C405.2.1 (EL20), C405.2.2 (EL21), C405.2.2 (EL22), and C405.9 (EL29).

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 14 of 19

Table with 4 columns: Section # & Req.ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Includes items like C405.2.3 (EL23), C405.2.4 (EL26), C405.2.4 (EL27), C405.2.5 (EL28), C405.2.6 (EL30), C405.3 (EL6), C405.6 (EL26), C405.7 (EL27), C405.8.2 (EL28), and C405.9 (EL29).

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 15 of 19

Table with 4 columns: Section # & Req.ID, Insulation Inspection, Complies?, Comments/Assumptions. Includes items like C303.1 (IN3), C402.2.1 (IN20), C303.1 (IN10), C303.2 (IN7), C105 (IN6), C402.2.3 (IN8), C402.2.6 (IN18), C402.3 (IN5), C105 (IN2), and C402.5.1 (IN1).

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 16 of 19

KME ARCHITECTS logo and contact information: 5195 S. Durango Drive, Suite #103, Las Vegas, NV 89113. Office: 702.888.2088, Fax: 702.888.2089, Web: www.kmearchitects.com, C KME Architects LLC, 2024.

Professional seal for Eric F. Gross, Registered Architect, State of Nevada, No. 6230, Expires 07.15.24.

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PROJECT: SNRHA BENNETT PLAZA PHASE II, 1818 Balzar Ave., Las Vegas, NV 89106. SHEET TITLE: I.E.C.C. REPORT & CONDITIONAL APPROVAL. REVISIONS table with 3 columns: No., Description, Date. Revision 1: CLV.COM, 6/21/24. DRAWN BY: KME, DATE: 2023-014, SCALE: AS INDICATED ON THE SHEET. SHEET: G0.07.

ENTIRE SHEET

Table with 4 columns: Section # & Req.ID, Final Inspection, Complies?, Comments/Assumptions. Contains HVAC, lighting, and control system compliance checks.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 17 of 19

Table with 8 columns: Assembly, Gross Area or Perimeter, Cavity R-Value, Cont. R-Value, Prop. U-Factor, Req. U-Factor, Prop. UA, Req. UA. Lists window and door assemblies.

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application...

Name - Title Signature Date

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24 Data filename: Page 2 of 10

Table with 4 columns: Section # & Req.ID, Final Inspection, Complies?, Comments/Assumptions. Contains HVAC, lighting, and control system compliance checks.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 18 of 19

REScheck Software Version : REScheck-Web Inspection Checklist Energy Code: 2018 IECC. Includes requirements and a table for Pre-Inspection/Plan Review.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24 Data filename: Page 3 of 10

Table with 4 columns: Section # & Req.ID, Final Inspection, Complies?, Comments/Assumptions. Contains lighting system compliance checks.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Commercial Report date: 07/02/24 Data filename: Page 19 of 19

Table with 5 columns: Section # & Req.ID, Foundation Inspection, Plans Verified Value, Field Verified Value, Complies?, Comments/Assumptions. Contains foundation and snow-melting system checks.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24 Data filename: Page 4 of 10

Generated by REScheck-Web Software Compliance Certificate

Project: Bennett Plaza Phase II Residential

Energy Code: 2018 IECC Location: Las Vegas, Nevada Construction Type: Multi-family New Construction Conditioned Floor Area: 46,768 ft2 Climate Zone: 3 (2652 HDD) Permit Number: 3 All Electric Is Renewable: false Has Charger: false Has Battery: false Has Heat Pump: false

Construction Site: Owner/Agent: Designer/Contractor:

Compliance: Passes using UA trade-off

Compliance: 0.0% Better Than Code Maximum UA: 3932 Your UA: 3932 Maximum SHGC: 0.25 Your SHGC: 0.23 This % Better or Worse Than Code trade-off reflects how close to compliance the house is based on code trade-off rules.

Slab-on-grade tradeoffs are no longer considered in the UA or performance compliance path in REScheck. Each slab-on-grade assembly in the specified climate zone must meet the minimum energy code insulation R-value and depth requirements.

Envelope Assemblies

Table with 8 columns: Assembly, Gross Area or Perimeter, Cavity R-Value, Cont. R-Value, Prop. U-Factor, Req. U-Factor, Prop. UA, Req. UA. Lists roof, floor, wall, and door assemblies.

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24 Data filename: Page 1 of 10

Table with 5 columns: Section # & Req.ID, Framing / Rough-In Inspection, Plans Verified Value, Field Verified Value, Complies?, Comments/Assumptions. Contains framing, air barrier, fenestration, and lighting fixture checks.

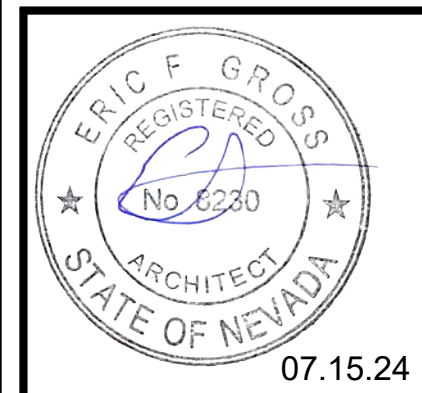
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24 Data filename: Page 5 of 10



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SNRHA BENNETT PLAZA PHASE II 1818 Balzar Ave., Las Vegas, NV 89106

PROJECT: SNRHA BENNETT PLAZA PHASE II 1818 Balzar Ave., Las Vegas, NV 89106 SHEET TITLE: I.E.C.C. REPORT & CONDITIONAL APPROVAL

Table with 3 columns: No., Description, Date. Row 1: 1, CLV.COM, 6/21/24

DRAWN BY: KME DATE: JOB NO: 2023-014 SCALE: AS INDICATED ON EACH SCALE DRAWING

SHEET G0.08



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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.3.7 [FR28] <sup>1</sup>	Ducts declared to be within the conditioned space are either 1) completely within the continuous air barrier and within the building thermal envelope, 2) buried within ceiling insulation in accordance with Section R403.3.6 and the air handler is located completely within the continuous air barrier and within the building thermal envelope and the duct leakage is <= 1.5 cfm / 100 square feet of conditioned floor area served by the duct system, or 3) the ceiling insulation R-value installed against and above the insulated duct >= to the proposed ceiling insulation R-value, less the R-value of the insulation on the			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4 [FR17] <sup>1</sup>	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to >=R-3.	R-___	R-___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4.1 [FR24] <sup>1</sup>	Protection of insulation on HVAC piping.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.3 [FR18] <sup>1</sup>	Hot water pipes are insulated to >=R-3.	R-___	R-___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6 [FR19] <sup>1</sup>	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24  
Data filename: Page 6 of 10

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.3 [F18] <sup>1</sup>	Manufacturer manuals for mechanical and water heating systems have been provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24  
Data filename: Page 10 of 10

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] <sup>2</sup>	All installed insulation is labeled or the installed R-values provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.5, 402.2.6 [IN3] <sup>1</sup>	Wall insulation R-value. If this is a mass wall with at least 1/2 of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R-___ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	R-___ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] <sup>1</sup>	Wall insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24  
Data filename: Page 7 of 10

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.3 [F18] <sup>1</sup>	Manufacturer manuals for mechanical and water heating systems have been provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24  
Data filename: Page 10 of 10

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.2.1, 402.2.2, 402.2.6 [F11] <sup>1</sup>	Ceiling insulation R-value.	R-___ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-___ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [F12] <sup>1</sup>	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 R's.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.3 [F12] <sup>1</sup>	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.4 [F13] <sup>1</sup>	Attic access hatch and door insulation <=R-value of the adjacent assembly.	R-___	R-___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.1.2 [F17] <sup>1</sup>	Blower door test @ 50 Pa <=5 ach in Climate Zones 1-2, and <=3 ach in Climate Zones 3-8.	ACH 50 = ___	ACH 50 = ___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.3 [F17] <sup>1</sup>	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	ft <sup>2</sup> cfm/100	ft <sup>2</sup> cfm/100	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.4 [F14] <sup>1</sup>	Duct tightness test result of <=4 cfm/100 ft <sup>2</sup> across the system or <=3 cfm/100 ft <sup>2</sup> without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing inspection.	ft <sup>2</sup> cfm/100	ft <sup>2</sup> cfm/100	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.2.1 [F14] <sup>1</sup>	Air handler leakage designated by manufacturer at <=2% of design air flow.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.1 [F10] <sup>1</sup>	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.2 [F10] <sup>1</sup>	Heat pump thermostat installed on heat pumps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1 [F11] <sup>1</sup>	Circulating service hot water systems have automatic or accessible manual controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Bennett Plaza Phase II Residential Report date: 07/02/24  
Data filename: Page 8 of 10



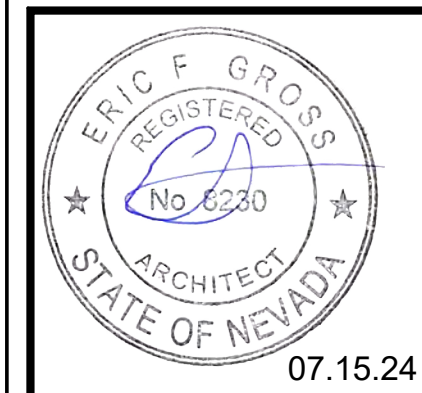
Insulation Rating	R-Value
Above-Grade Wall	19.00
Below-Grade Wall	0.00
Floor	0.00
Ceiling / Roof	30.00
<b>Ductwork (unconditioned spaces):</b>	
Glass & Door Rating	U-Factor SHGC
Window	0.30 0.23
Door	0.30 0.23
<b>Heating &amp; Cooling Equipment</b>	
Efficiency	
Heating System:	___
Cooling System:	___
Water Heater:	___
Name:	Date:

Comments



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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PROJECT: SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT:

SHEET TITLE: I.E.C.C. REPORT & CONDITIONAL APPROVAL

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: Author  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET

G0.09

ENTIRE SHEET

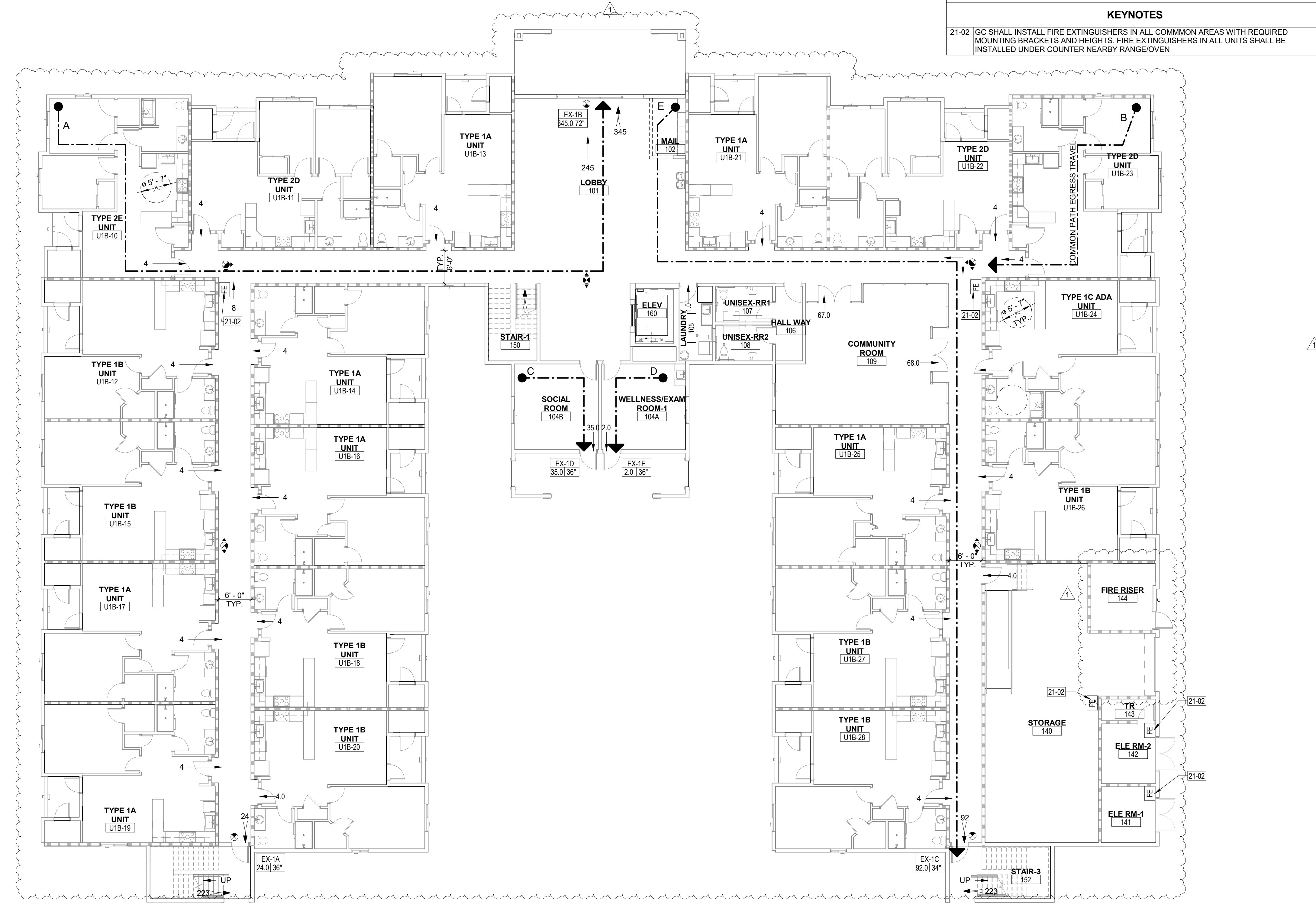
1

2

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5



1 PLAN- FIRST FLOOR - OVERALL EGRESS  
SCALE: 3/32" = 1'-0"

**LIFE SAFETY NOTES**

NOTE: EACH UNIT TO HAVE FIRE EXTINGUISHER PLACED WITHIN THE BASE CABINET UNDER THE KITCHEN SINK. ENSURE THAT FIRE EXTINGUISHER DOES NOT INTERFERE WITH KNEE AND TOE CLEARANCE UNDER THE SINK FOR ALL UNITS.

NOTE: ALL FIRE SUPPRESSION LINES TO BE CPVC LINES THROUGHOUT. ALL SPRINKLER HEADS TO BE CONCEALED.

EGRESS SCHEDULE				EXIT TRAVEL DISTANCE			
EXIT NUMBER	OCCUPANTS	EXIT WIDTH (IN.)		MARK	DISTANCE		
		REQUIRED	PROVIDED		ACTUAL	MAXIMUM	
EX-1A	24	3.6	36.0	A	160' - 4"	250' - 0"	
EX-1B	345	51.75	72.0	B	52' - 8"	125' - 0"	
EX-1C	92	13.8	34.0	C	23' - 5"	125' - 0"	
EX-1D	35	5.25	36.0	D	20' - 11"	250' - 0"	
EX-1E	2	0.3	36.0	E	249' - 3"	250' - 0"	
EX-2A	63	9.45	36.0	F	212' - 10"	250' - 0"	
EX-2C	63	9.45	36.0	G	109' - 0"	250' - 0"	
EX-3A	160	24	36.0	H	52' - 8"	125' - 0"	
EX-3C	160	24	36.0	J	205' - 11"	250' - 0"	
				K	52' - 11"	250' - 0"	

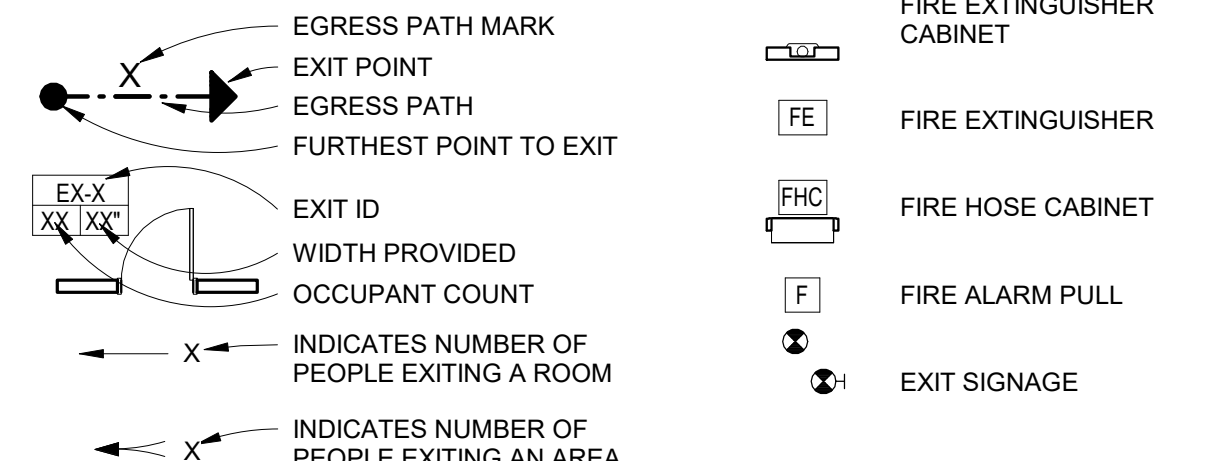
**WALL RATING LEGEND**

1 HR FIRE RATED WALL ASSEMBLY

**KEYNOTES**

21-02 GC SHALL INSTALL FIRE EXTINGUISHERS IN ALL COMMON AREAS WITH REQUIRED MOUNTING BRACKETS AND HEIGHTS. FIRE EXTINGUISHERS IN ALL UNITS SHALL BE INSTALLED UNDER COUNTER NEARBY RANGE/OVEN

**LIFE SAFETY SYMBOLS**



**EXITING ANALYSIS**

IBC 2021 CHAPTER 9 AND SEC 1005: EGRESS WIDTH PER OCCUPANT (MIN WIDTH OF 36" ALWAYS REQUIRED, 32" WIDTH EXCEPTION AT DOORS)

OCCUPANCY	WITHOUT SPRINKLER SYSTEM		WITH SPRINKLER SYSTEM	
	(INCHES PER OCCUPANT, MIN. 44")	OTHER (INCHES PER OCCUPANT, MIN. 32")	(INCHES PER OCCUPANT, MIN. 44")	OTHER (INCHES PER OCCUPANT, MIN. 32")
INSTITUTIONAL: I-1, I-3, AND I-4 RESIDENTIAL: R-1, R-2, R-3, AND R-4	N/A	N/A	0.2	0.15
ALL OTHER OCCUPANCIES	0.3	0.2	0.2	0.15

IBC 2021 1020.2: MINIMUM CORRIDOR WIDTH

ACCESS TO AND UTILIZATION OF MECHANICAL PLUMBING OR ELECTRICAL SYSTEMS OR EQUIPMENT	24 INCHES
WITH A REQUIRED OCCUPANCY CAPACITY LESS THAN 50	36 INCHES
WITHIN A DWELLING UNIT	36 INCHES
IN GROUP E WITH A CORRIDOR HAVING A REQUIRED CAPACITY OF 100 OR MORE	72 INCHES
IN CORRIDORS AND AREAS SERVING GURNEY TRAFFIC IN OCCUPANCIES WHERE PATIENTS RECEIVE OUTPATIENT MEDICAL CARE, WHICH CAUSES THE PATIENT TO BE INCAPABLE OF SELF-PRESERVATION	72 INCHES
GROUP I-2 IN AREAS WHERE REQUIRED FOR BED MOVEMENT	96 INCHES
ALL OTHER SITUATIONS	44 INCHES

**EGRESS COMPONENTS**

NUMBER OF EXITS	REQUIRED: 2	PROVIDED: 3
EXIT WIDTH		
STAIRS	REQUIRED: 44 INCHES	PROVIDED: 48 INCHES
CORRIDORS	REQUIRED: 36 INCHES	PROVIDED: 72 INCHES
OTHER ELEMENTS	REQUIRED: 32 INCHES	PROVIDED: 36 INCHES

**TYPICAL UNITS SCHEDULE**

FIRST FLOOR UNITS: 19			
TYPE 1A: 7	TYPE 1B: 7	TYPE 1C (ACCESSIBLE): 1	TYPE 2E (ACCESSIBLE): 1
TYPE 2D: 3			
SECOND FLOOR UNITS: 22			
TYPE 1A: 10	TYPE 1B: 7	TYPE 1C (ACCESSIBLE): 1	TYPE 2E (ACCESSIBLE): 1
TYPE 2D: 3			
THIRD FLOOR UNITS: 18			
TYPE 1A: 10	TYPE 1B: 5	TYPE 1C (ACCESSIBLE): 1	TYPE 2E: 0
TYPE 2D: 2			

**OCCUPANCY SCHEDULE - FIRST FLOOR**

NUMBER	ROOM NAME	AREA	LOAD FACTOR	OCCUPANT LOAD
100	COVERED ENTRY	362		
100-A	COVERED ENTRY	257		
101	LOBBY	1224	15 SF	82
102	MAIL	58	150 SF	0.5
104A	WELLNESS/EXAM ROOM-1	243	150 SF	1.5
104B	SOCIAL ROOM	243	7 SF	35
105	LAUNDRY	84	200 SF	0.5
106	HALL WAY	68		
107	UNISEX-RR1	69		
108	UNISEX-RR2	69		
109	COMMUNITY ROOM	672	5 SF	135
130	CORRIDOR	428		
131	CORRIDOR	686		
132	CORRIDOR	391		
133	CORRIDOR	666		
140	STORAGE	1155		
141	ELE RM-1	103	300 SF	0.5
142	ELE RM-2	110	300 SF	0.5
143	TR	40	300 SF	0
144	FIRE RISER	142		
150	STAIR-1	127		
151	STAIR-2	183		
152	STAIR-3	182		
160	ELEV	79		
		7640		255

U1B-10	TYPE 2E UNIT	832	200 SF	4
U1B-11	TYPE 2D UNIT	834	200 SF	4
U1B-12	TYPE 1B UNIT	789	200 SF	4
U1B-13	TYPE 1A UNIT	730	200 SF	3.5
U1B-14	TYPE 1A UNIT	788	200 SF	4
U1B-15	TYPE 1B UNIT	789	200 SF	4
U1B-16	TYPE 1A UNIT	730	200 SF	3.5
U1B-17	TYPE 1A UNIT	730	200 SF	3.5
U1B-18	TYPE 1B UNIT	789	200 SF	4
U1B-19	TYPE 1A UNIT	788	200 SF	4
U1B-20	TYPE 1B UNIT	788	200 SF	4
U1B-21	TYPE 1A UNIT	730	200 SF	3.5
U1B-22	TYPE 2D UNIT	833	200 SF	4
U1B-23	TYPE 2D UNIT	834	200 SF	4
U1B-24	TYPE 1C ADA UNIT	789	200 SF	4
U1B-25	TYPE 1A UNIT	788	200 SF	4
U1B-26	TYPE 1B UNIT	789	200 SF	4
U1B-27	TYPE 1B UNIT	789	200 SF	4
U1B-28	TYPE 1B UNIT	788	200 SF	4
		14922		75

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT:

SHEET TITLE:  
**FIRST FLOOR - EGRESS PLANS AND OCCUPANCY LEGEND**

**REVISIONS**

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**G0.10**

**LIFE SAFETY NOTES**

NOTE: EACH UNIT TO HAVE FIRE EXTINGUISHER PLACED WITHIN THE BASE CABINET UNDER THE KITCHEN SINK. ENSURE THAT FIRE EXTINGUISHER DOES NOT INTERFERE WITH KNEE AND TOE CLEARANCE UNDER THE SINK FOR ALL UNITS.

NOTE: ALL FIRE SUPPRESSION LINES TO BE CPVC LINES THROUGHOUT. ALL SPRINKLER HEADS TO BE CONCEALED.

EGRESS SCHEDULE				EXIT TRAVEL DISTANCE		
EXIT NUMBER	OCCUPANTS	EXIT WIDTH (IN.)		MARK	DISTANCE	
		REQUIRED	PROVIDED		ACTUAL	MAXIMUM
EX-1A	24	3.6	36.0	A	160' - 4"	250' - 0"
EX-1B	345	51.75	72.0	B	52' - 8"	125' - 0"
EX-1C	92	13.8	34.0	C	23' - 5"	125' - 0"
EX-1D	35	5.25	36.0	D	20' - 11"	250' - 0"
EX-1E	2	0.3	36.0	E	249' - 3"	250' - 0"
EX-2A	63	9.45	36.0	F	212' - 10"	250' - 0"
EX-2C	63	9.45	36.0	G	109' - 0"	250' - 0"
EX-3A	160	24	36.0	H	52' - 8"	125' - 0"
EX-3C	160	24	36.0	J	205' - 11"	250' - 0"
				K	52' - 11"	250' - 0"

**KEYNOTES**

21-02 GC SHALL INSTALL FIRE EXTINGUISHERS IN ALL COMMON AREAS WITH REQUIRED MOUNTING BRACKETS AND HEIGHTS. FIRE EXTINGUISHERS IN ALL UNITS SHALL BE INSTALLED UNDER COUNTER NEARBY RANGE/OVEN

**LIFE SAFETY SYMBOLS**

EGRESS PATH MARK  
EXIT POINT  
EGRESS PATH  
FURTHEST POINT TO EXIT  
EXIT ID  
WIDTH PROVIDED  
OCCUPANT COUNT  
INDICATES NUMBER OF PEOPLE EXITING A ROOM  
INDICATES NUMBER OF PEOPLE EXITING AN AREA

FIRE EXTINGUISHER CABINET  
FIRE EXTINGUISHER  
FIRE HOSE CABINET  
FIRE ALARM PULL  
EXIT SIGNAGE

**WALL RATING LEGEND**

1 HR FIRE RATED WALL ASSEMBLY

**EXITING ANALYSIS**

IBC 2021 CHAPTER 9 AND SEC 1005: EGRESS WIDTH PER OCCUPANT (MIN WIDTH OF 36" ALWAYS REQUIRED, 32" WIDTH EXCEPTION AT DOORS)

OCCUPANCY	WITHOUT SPRINKLER SYSTEM		WITH SPRINKLER SYSTEM	
	STAIRWAYS (INCHES PER OCCUPANT, MIN. 44")	OTHER (INCHES PER OCCUPANT, MIN. 32")	STAIRWAYS (INCHES PER OCCUPANT, MIN. 44")	OTHER (INCHES PER OCCUPANT, MIN. 32")
INSTITUTIONAL: I-1, I-3, AND I-4 RESIDENTIAL: R-1, R-2, R-3, AND R-4	N/A	N/A	0.2	0.15
ALL OTHER OCCUPANCIES	0.3	0.2	0.2	0.15

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ACCESS TO AND UTILIZATION OF MECHANICAL, PLUMBING OR ELECTRICAL SYSTEMS OR EQUIPMENT	24 INCHES
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**EGRESS COMPONENTS**

NUMBER OF EXITS	REQUIRED: 2	PROVIDED: 3
STAIRS	REQUIRED: 44 INCHES	PROVIDED: 48 INCHES
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**TYPICAL UNITS SCHEDULE**

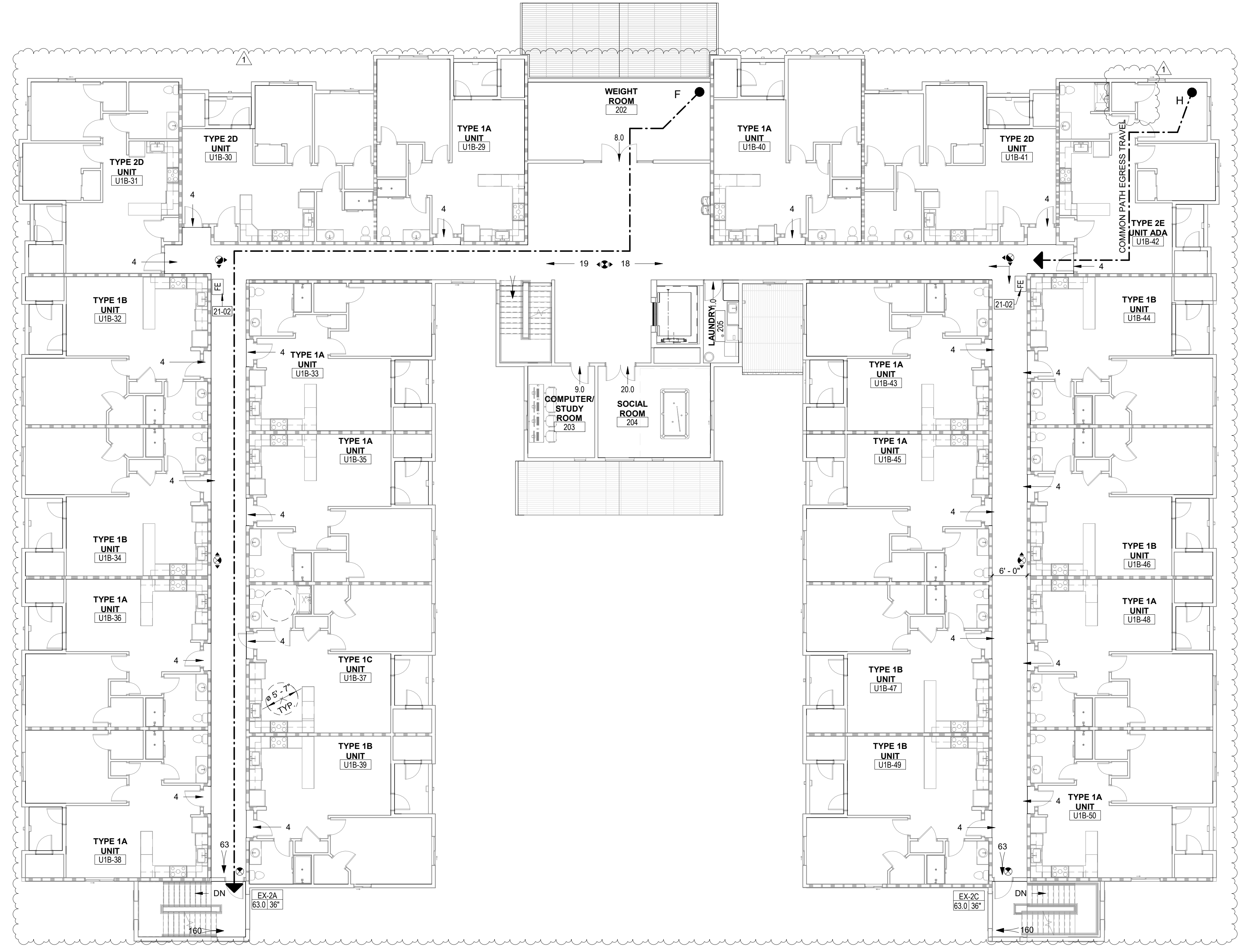
FIRST FLOOR UNITS: 19  
 TYPE 1A: 7    TYPE 1B: 7    TYPE 1C (ACCESSIBLE): 1  
 TYPE 2D: 3    TYPE 2E (ACCESSIBLE): 1

SECOND FLOOR UNITS: 22  
 TYPE 1A: 10    TYPE 1B: 7    TYPE 1C (ACCESSIBLE): 1  
 TYPE 2D: 3    TYPE 2E (ACCESSIBLE): 1

THIRD FLOOR UNITS: 18  
 TYPE 1A: 10    TYPE 1B: 5    TYPE 1C (ACCESSIBLE): 1  
 TYPE 2D: 2    TYPE 2E: 0

**OCCUPANCY SCHEDULE - SECOND FLOOR**

NUMBER	ROOM NAME	AREA	LOAD FACTOR	OCCUPANT LOAD
201	LOBBY	875		
202	WEIGHT ROOM	421	50 SF	9
203	COMPUTER/ STUDY ROOM	182	20 SF	9
204	SOCIAL ROOM	305	15 SF	21
205	LAUNDRY	85	300 SF	0
240	CORRIDOR	388		
241	CORRIDOR	389		
242	CORRIDOR	667		
243	CORRIDOR	667		
250	STAIR-1	128		
251	STAIR-2	171		
252	STAIR-3	168		
260	ELEVATOR	75		
		4522		39
U1B-29	TYPE 1A UNIT	730	200 SF	4
U1B-30	TYPE 2D UNIT	834	200 SF	4
U1B-31	TYPE 2D UNIT	835	200 SF	4
U1B-32	TYPE 1B UNIT	789	200 SF	4
U1B-33	TYPE 1A UNIT	730	200 SF	4
U1B-34	TYPE 1B UNIT	789	200 SF	4
U1B-35	TYPE 1A UNIT	730	200 SF	4
U1B-36	TYPE 1A UNIT	730	200 SF	4
U1B-37	TYPE 1C UNIT	789	200 SF	4
U1B-38	TYPE 1A UNIT	788	200 SF	4
U1B-39	TYPE 1B UNIT	788	200 SF	4
U1B-40	TYPE 1A UNIT	730	200 SF	4
U1B-41	TYPE 2D UNIT	833	200 SF	4
U1B-42	TYPE 2E UNIT ADA	829	200 SF	4
U1B-43	TYPE 1A UNIT	730	200 SF	4
U1B-44	TYPE 1B UNIT	789	200 SF	4
U1B-45	TYPE 1A UNIT	730	200 SF	4
U1B-46	TYPE 1B UNIT	789	200 SF	4
U1B-47	TYPE 1B UNIT	789	200 SF	4
U1B-48	TYPE 1A UNIT	730	200 SF	4
U1B-49	TYPE 1B UNIT	788	200 SF	4
U1B-50	TYPE 1A UNIT	788	200 SF	4
		17053		86



1 OVERALL LIFE SAFETY PLAN - SECOND FLOOR  
SCALE: 3/32" = 1'-0"

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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT: SNRHA BENNETT PLAZA PHASE II  
SHEET TITLE: SECOND FLOOR - LIFE SAFETY PLAN AND OCCUPANCY LEGEND

**REVISIONS**

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**G0.11**

LIFE SAFETY NOTES

NOTE: EACH UNIT TO HAVE FIRE EXTINGUISHER PLACED WITHIN THE BASE CABINET UNDER THE KITCHEN SINK. ENSURE THAT FIRE EXTINGUISHER DOES NOT INTERFERE WITH KNEE AND TOE CLEARANCE UNDER THE SINK FOR ALL UNITS.

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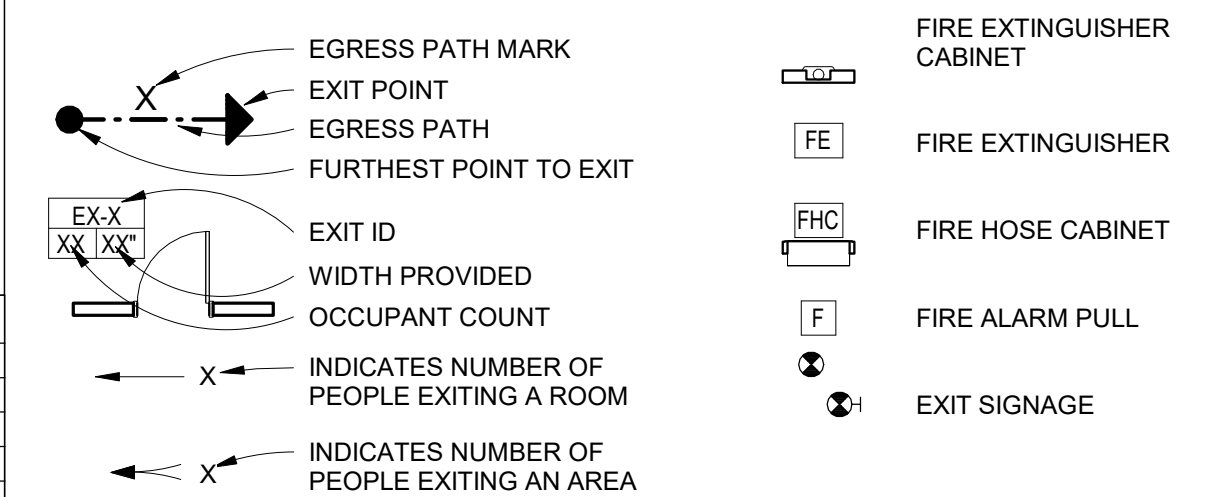
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				K	52' - 11"	250' - 0"

KEYNOTES

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LIFE SAFETY SYMBOLS



WALL RATING LEGEND



EXITING ANALYSIS

IBC 2021 CHAPTER 9 AND SEC 1005: EGRESS WIDTH PER OCCUPANT (MIN WIDTH OF 36" ALWAYS REQUIRED, 32" WIDTH EXCEPTION AT DOORS)

OCCUPANCY	WITHOUT SPRINKLER SYSTEM		WITH SPRINKLER SYSTEM	
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ALL OTHER SITUATIONS	44 INCHES

EGRESS COMPONENTS

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EXIT WIDTH		
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CORRIDORS	REQUIRED: 36 INCHES	PROVIDED: 72 INCHES
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TYPE 2D: 3			
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TYPE 1A: 10	TYPE 1B: 7	TYPE 1C (ACCESSIBLE): 1	TYPE 2E (ACCESSIBLE): 1
TYPE 2D: 3			
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TYPE 1A: 10	TYPE 1B: 5	TYPE 1C (ACCESSIBLE): 1	TYPE 2E: 0
TYPE 2D: 2			

OCCUPANCY SCHEDULE - THIRD FLOOR

NO.	ROOM NAME	AREA	LOAD FACTOR	OCCUPANT LOAD
301	LOBBY	679		
302	SOCIAL ROOM	421	15 SF	28
303	SOCIAL ROOM	495	15 SF	33
304	LAUNDRY	83	300 SF	0
305	CORRIDOR	347		
306	CORRIDOR	373		
307	CORRIDOR	659		
308	CORRIDOR	660		
309	HOUSEKEEPING	116	200 SF	1
330	BALCONY	736	15 SF	49
331	BALCONY	731	15 SF	49
332	TERRACE	660	15 SF	44
333	TERRACE	661	15 SF	44
350	STAIR-1	113		
351	STAIR-2	181		
352	STAIR-3	181		
360	ELEVATOR	70		
		7167		248
U1B-51	TYPE 1A UNIT	730	200 SF	4
U1B-52	TYPE 2D UNIT	834	200 SF	4
U1B-53	TYPE 1C UNIT	789	200 SF	4
U1B-54	TYPE 1A UNIT	730	200 SF	4
U1B-55	TYPE 1B UNIT	789	200 SF	4
U1B-56	TYPE 1A UNIT	788	200 SF	4
U1B-57	TYPE 1A UNIT	787	200 SF	4
U1B-58	TYPE 1B UNIT	788	200 SF	4
U1B-59	TYPE 1A UNIT	788	200 SF	4
U1B-60	TYPE 1A UNIT	788	200 SF	4
U1B-61	TYPE 2D UNIT	832	200 SF	4
U1B-62	TYPE 1B UNIT	789	200 SF	4
U1B-63	TYPE 1A UNIT	730	200 SF	4
U1B-64	TYPE 1B UNIT	789	200 SF	4
U1B-65	TYPE 1A UNIT	788	200 SF	4
U1B-66	TYPE 1A UNIT	730	200 SF	4
U1B-67	TYPE 1B UNIT	788	200 SF	4
U1B-68	TYPE 1A UNIT	788	200 SF	4
		14041		71

**KME ARCHITECTS**

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Suite #103  
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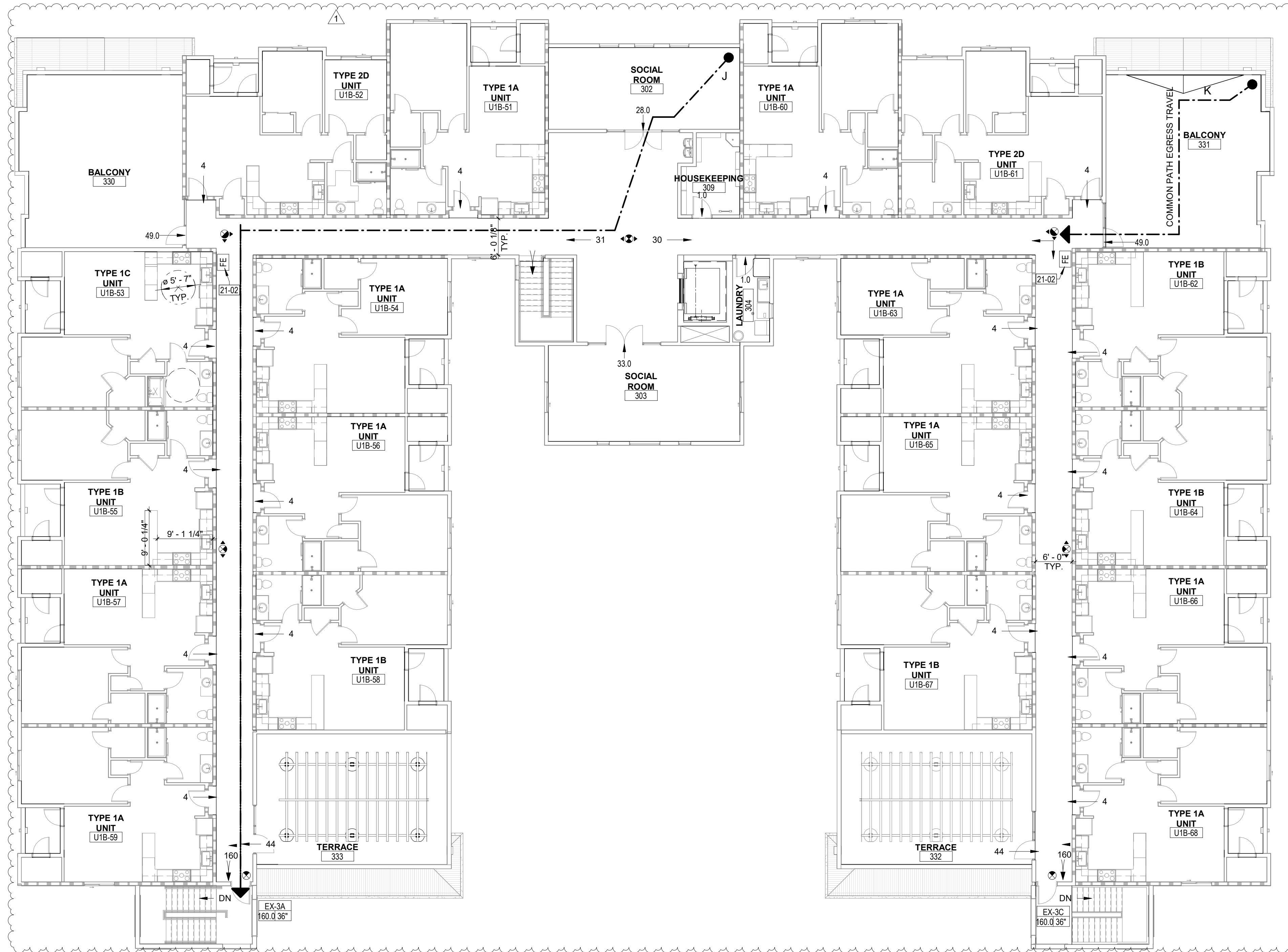
PROJECT: SNRHA BENNETT PLAZA PHASE II  
SHEET TITLE: THIRD FLOOR - LIFE SAFETY PLAN AND OCCUPANCY LEGEND

REVISIONS

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED (NOT SCALE DRAWINGS)

SHEET  
**G0.12**



**1 OVERALL LIFE SAFETY PLAN - THIRD FLOOR**  
SCALE: 3/32" = 1'-0"

### LIFE SAFETY SYMBOLS

- EGRESS PATH MARK
- EXIT POINT
- EGRESS PATH
- FURTHEST POINT TO EXIT
- EXIT ID
- WIDTH PROVIDED
- OCCUPANT COUNT
- INDICATES NUMBER OF PEOPLE EXITING A ROOM
- INDICATES NUMBER OF PEOPLE EXITING AN AREA
- FIRE EXTINGUISHER CABINET
- FE FIRE EXTINGUISHER
- FHC FIRE HOSE CABINET
- F FIRE ALARM PULL
- EXIT SIGNAGE

### SITE LEGEND

- PROPERTY LINE
- PUBLIC EASEMENT
- AREA OF WORK
- SITE VISIBILITY ZONE
- STREET LIGHT
- LIGHT POLES
- FIRE HYDRANT
- ACCESSIBLE PARKING

- ### SITE PLAN GENERAL NOTES
- SITE INFORMATION AND LANDSCAPE ON ARCHITECTURAL SITE PLAN ARE COMPLEMENTARY TO ALL OTHER DISCIPLINES INCLUDING CIVIL PLANS. DUPLICATION OF INFORMATION IS NOT INTENDED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN ON OR REQUIRED BY ALL DRAWING DISCIPLINES, UTILITY PROVIDERS AND AUTHORITY HAVING JURISDICTION.
  - REFER TO CIVIL DRAWINGS FOR ADDITIONAL DIMENSIONS AND INFORMATION, LAYOUT PAVING AND ALL SITE CURB RADIUS DIMENSIONS AND DIMENSIONS NOT SHOWN ON ARCHITECTURAL SITE PLAN.
  - REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF ALL SITE LIGHTING AND ELECTRICAL REQUIREMENTS.
  - REFER TO LANDSCAPE DRAWINGS FOR ALL LANDSCAPING AND IRRIGATION REQUIREMENTS.
  - ALL SIDEWALK DIMENSIONS SHOULD BE MINIMUM OF 5'-0" FROM FACE OF CURB TO EDGE OF SIDEWALK. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
  - PROVIDE CONTROL JOINTS (CJ) SPACED APPROXIMATELY 5'-0" ON CENTER AND APPROXIMATELY 10'-0" ON CENTER EACH WAY FOR LARGER SLABS UNO PROVIDE EXPANSION JOINTS (EJ) AT 30'-0" ON CENTER INTERVALS.
  - ALL NEW CONCRETE SLABS/FLATWORK TO HAVE A TYPE II BASE THROUGHOUT UNLESS NOTED OTHERWISE. ALL NEW CONCRETE TO HAVE A MAXIMUM 1/8" SAWCUT JOINTS. ALL EXISTING CONCRETE SIDEWALK TO HAVE A NEW EXTERIOR GRADE JOINT AT ALL EXISTING TOOLED JOINTS THROUGHOUT THE PROPERTY.
  - EXTERIOR CONCRETE SLABS TO RECEIVE LIGHT BROOM FINISH UNLESS OTHERWISE REQUIRED BY AUTHORITY HAVING JURISDICTION.
  - CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITION.
  - REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR GEOTECHNICAL RECOMMENDATIONS. FOLLOW ALL RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION UNLESS MORE STRINGENT REQUIREMENTS APPEAR IN THESE CONTRACT DOCUMENTS.
  - CONTRACTOR TO INCLUDE \$500,000 CONTINGENCY FOR ALL UNDERGROUND UTILITY WORK, INCLUDING BUT NOT LIMITED TO NEW NV ENERGY, SW GAS, COX LUMEN OR OTHER ENTITY. THIS \$500,000 CONTINGENCY DOES NOT INCLUDE ANY AND ALL WATER, SEWER OR OTHER UTILITY DEPICTED WITHIN THESE DRAWINGS.

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
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### PARKING TABULATION

PER THE CITY OF LAS VEGAS ZONING ORDINANCE OFF-STREET PARKING REQUIREMENTS 19.12.070

.75 spaces per Unit  
59 x .75 = 44 SPACES REQUIRED

PROVIDED:  
EXISTING PHASE I PARKING SPACES 61  
(INCLUDING HANDICAPPED 6 (3 VAN ACCESSIBLE))

PROPOSED PHASE II  
PARKING SPACES 51  
NORMAL 48  
HANDICAPPED 3 (1 VAN ACCESSIBLE)

TOTAL PARKING SPACES 112

PER 2021 IBC TABLE 1106.2 - ACCESSIBLE PARKING SPACES

PER 2021 IBC SECTION 1106.6 - FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE A VAN-ACCESSIBLE PARKING SPACE.

### ZONING

Existing Phase I - R-2 Medium - Low Density Residential zoning.  
New Phase II - R-2 Medium - Low Density Residential zoning.

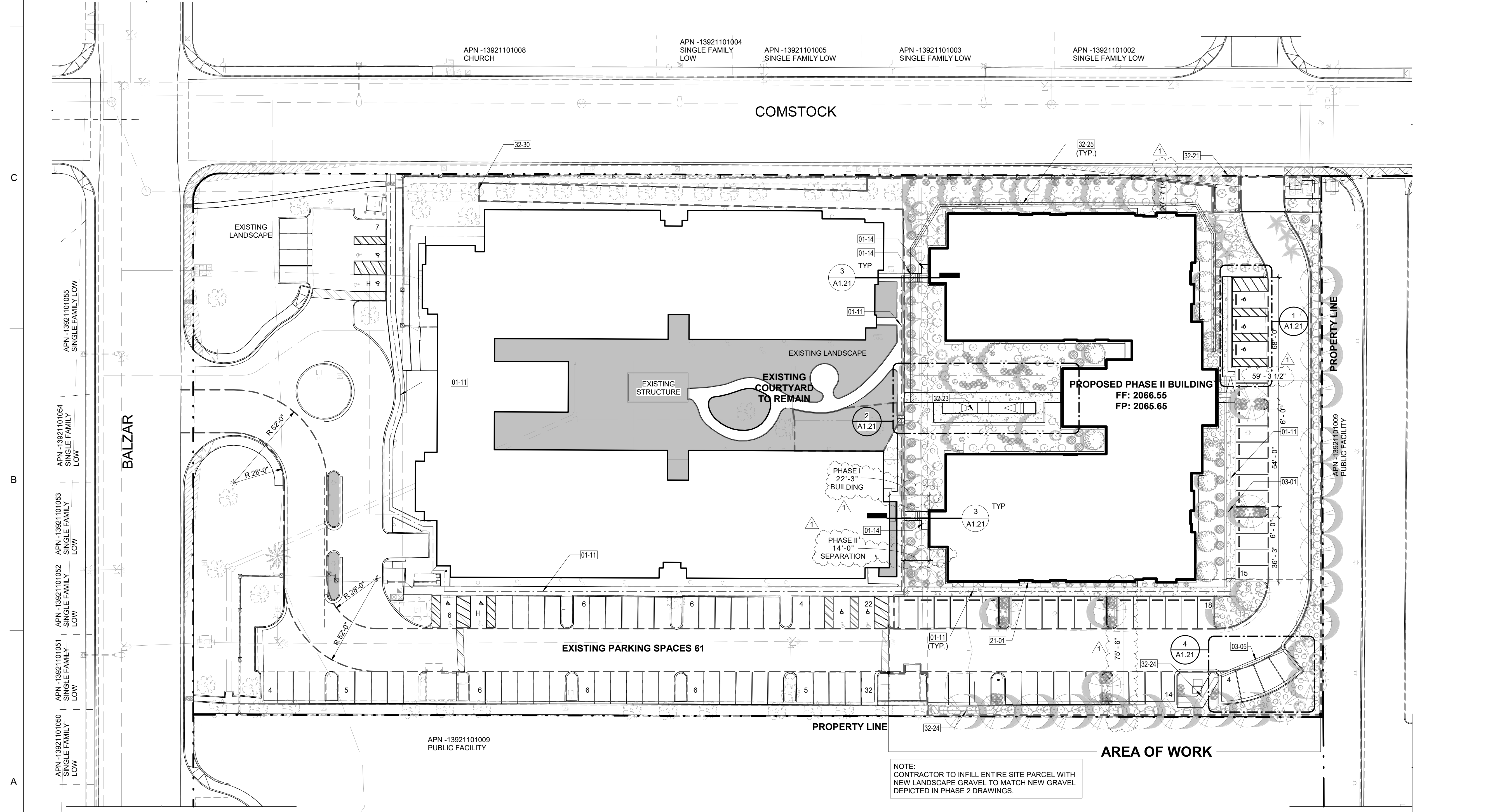
	R-2 Phase II	R-2 Phase I
Minimum Lot Size	6,500 square feet	
Dwelling Units per Acre	13-50	6-12
Minimum Front Yard Setback	10 feet	20 feet
Minimum Side Yard Setback	5 feet	
Minimum Corner Side Yard Setback	5 feet	
Minimum Rear Yard Setback	20 feet	
Minimum Distance Between Buildings	10 feet	
Stories	5 max	2 max
Flat Roof - Max. Height	55 feet	35 feet
Pitched Roof - Max. Height	55 feet	35 feet
Patio Cover Setback to Post	5 feet - Rear 5 feet - Side 5 feet - Corner Side	
Patio Cover Overhang	2 feet	
Patio Cover	Buildable Envelope	
Patio Cover Support Columns	Must be located within the required Setbacks	
Front Yard Setback	2 feet	
Landscape Buffer Min. Zone Depths	10 feet - Adjacent to Right-of-Way 6 feet - Interior Lot Lines	6 feet 0 feet
Turf Coverage	30% of landscapable area	0%

### REVISIONS

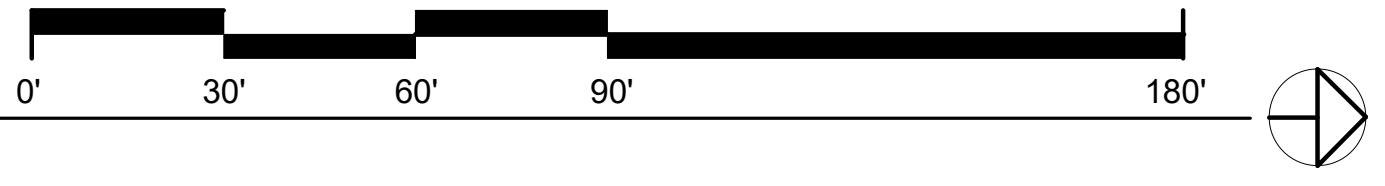
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DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**A1.00**



NOTE:  
CONTRACTOR TO INFILL ENTIRE SITE PARCEL WITH NEW LANDSCAPE GRAVEL TO MATCH NEW GRAVEL DEPICTED IN PHASE 2 DRAWINGS.

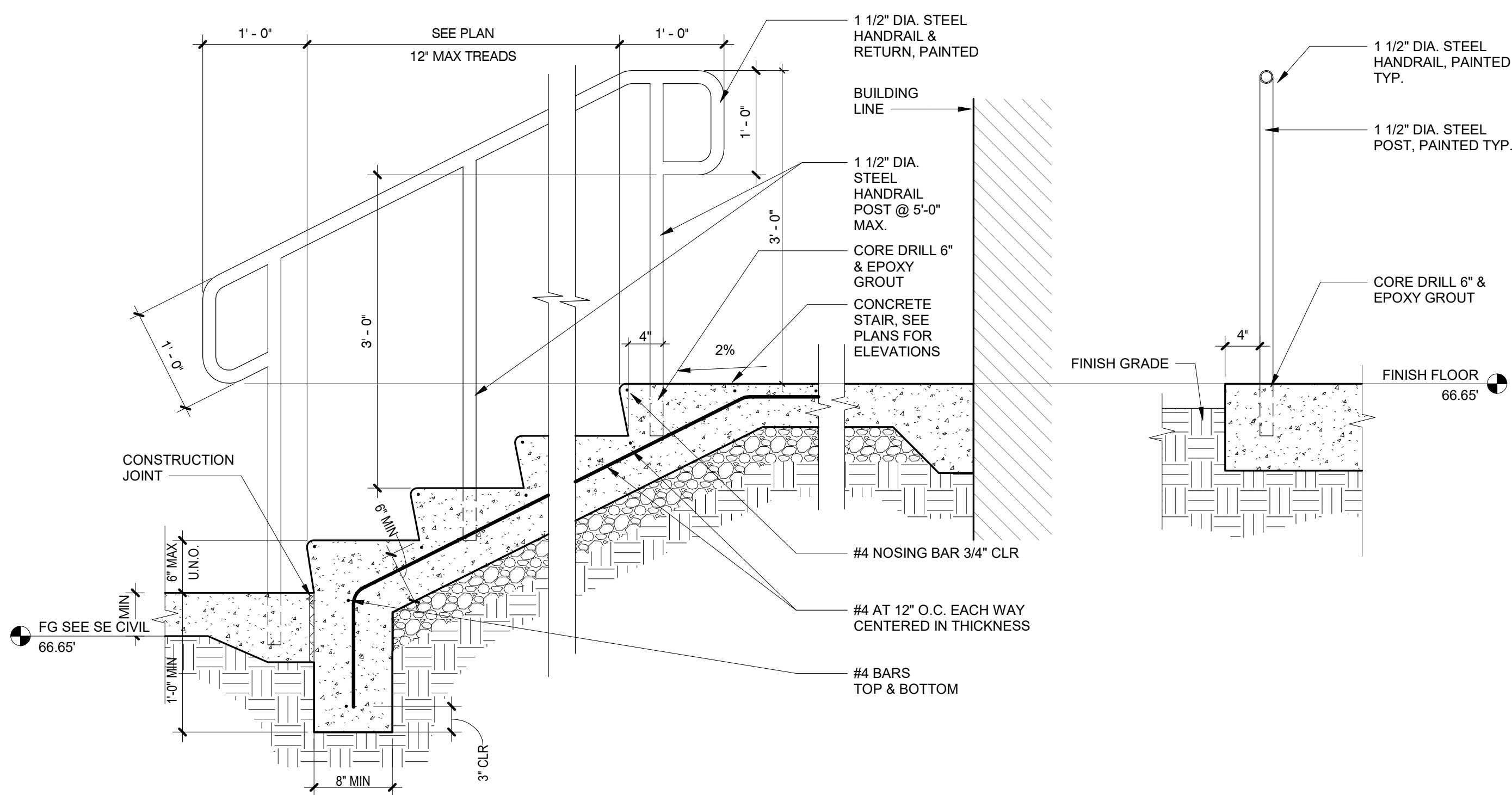


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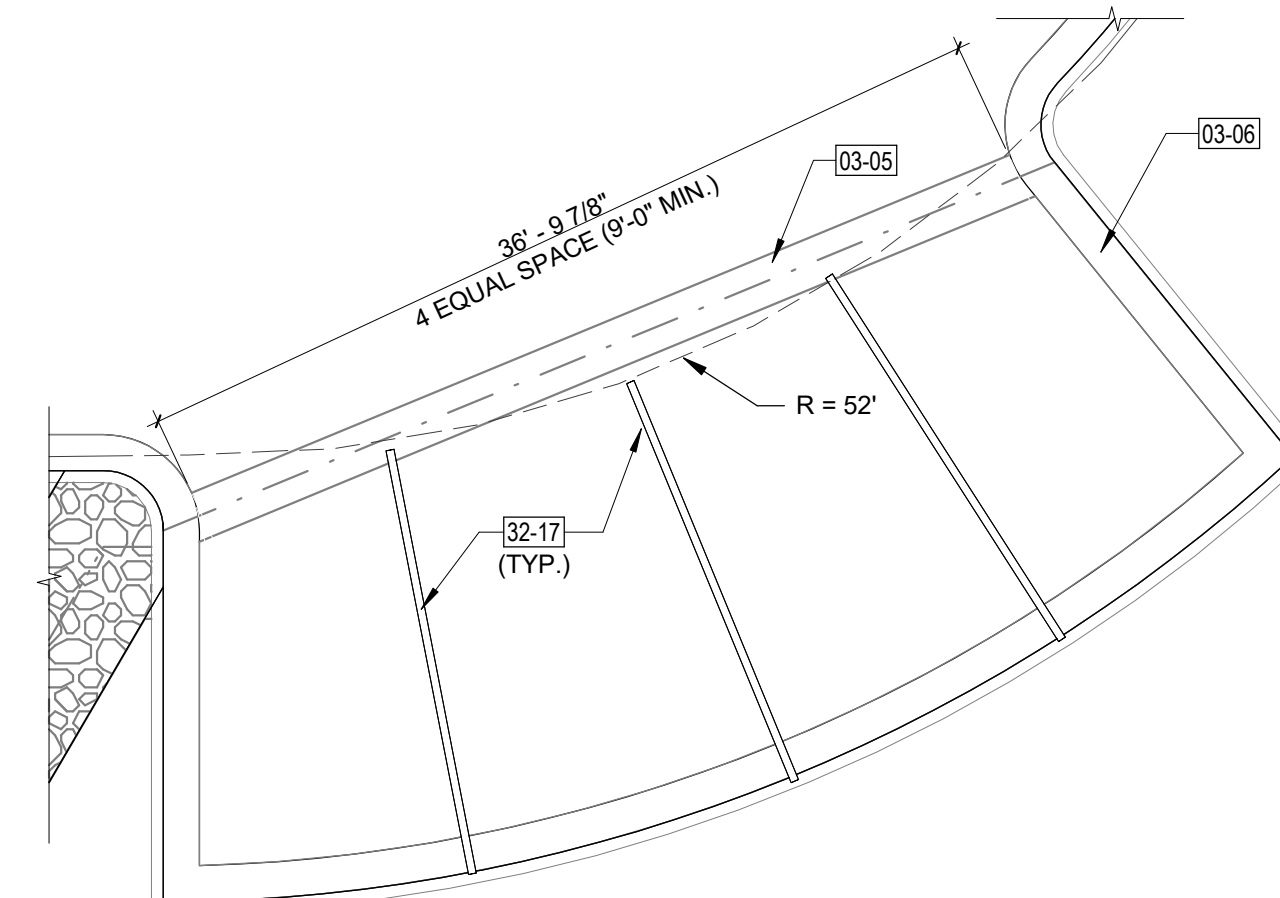
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B

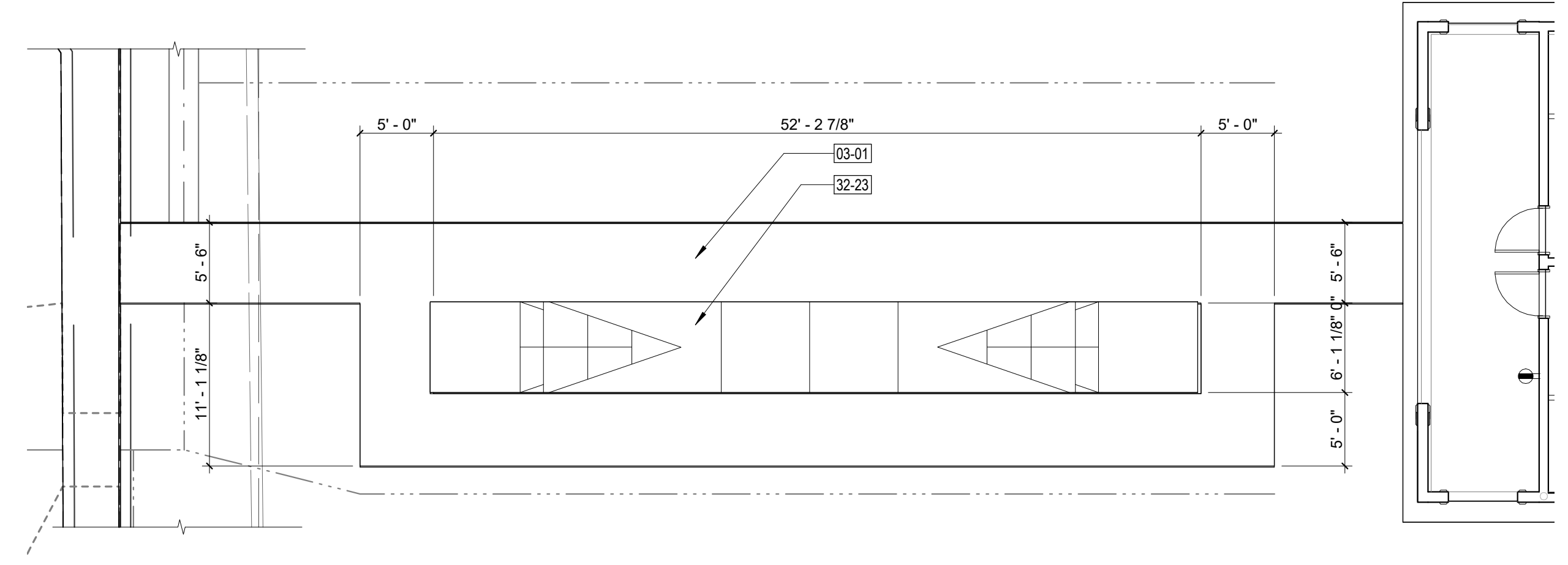
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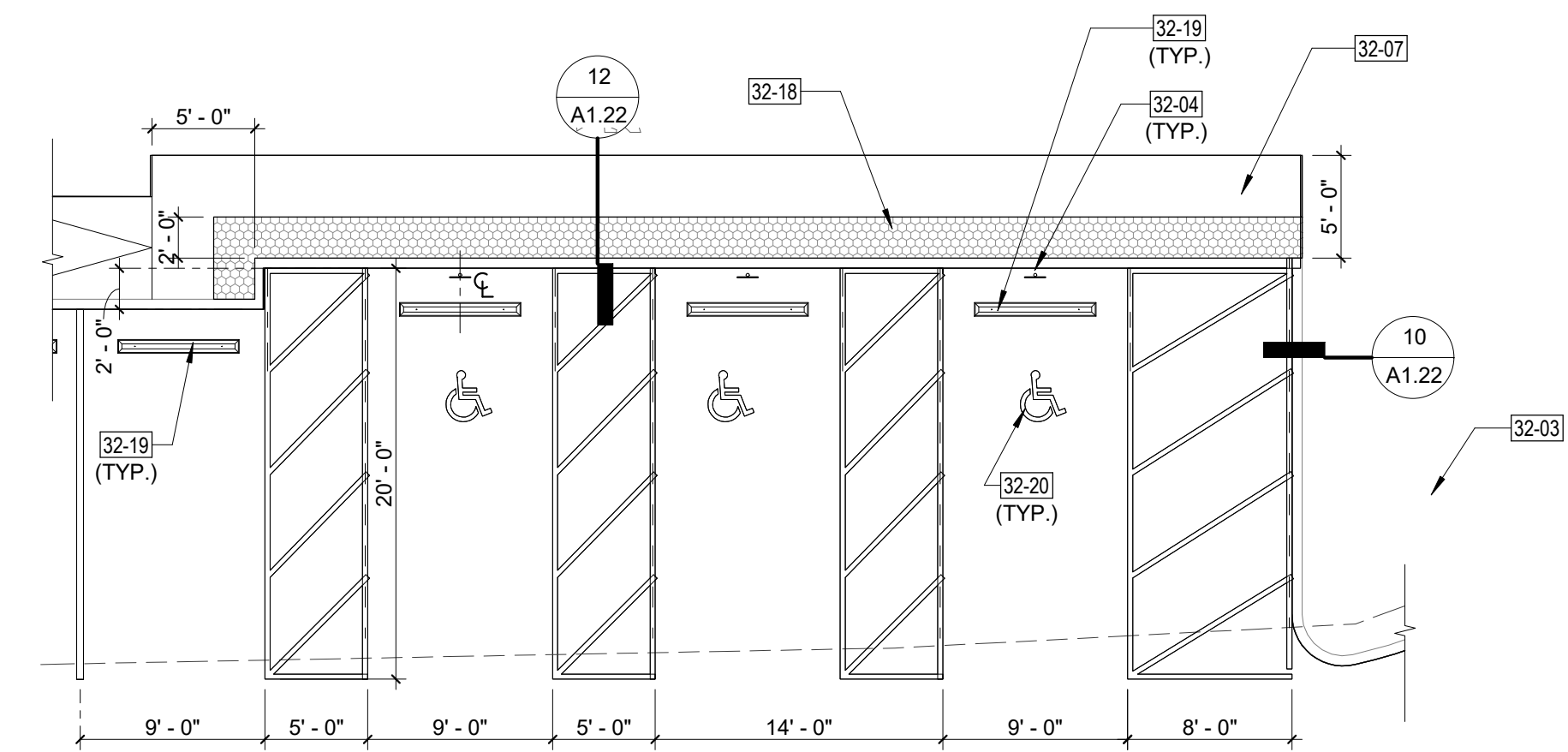
**3 SITE STAIR DETAIL**  
SCALE: 1" = 1'-0"



**4 ENLARGED SITE PLAN - CORNER PARKING**  
SCALE: 1/8" = 1'-0"



**2 ENLARGED SITE PLAN SHUFFLEBOARD COURT**  
SCALE: 1/8" = 1'-0"

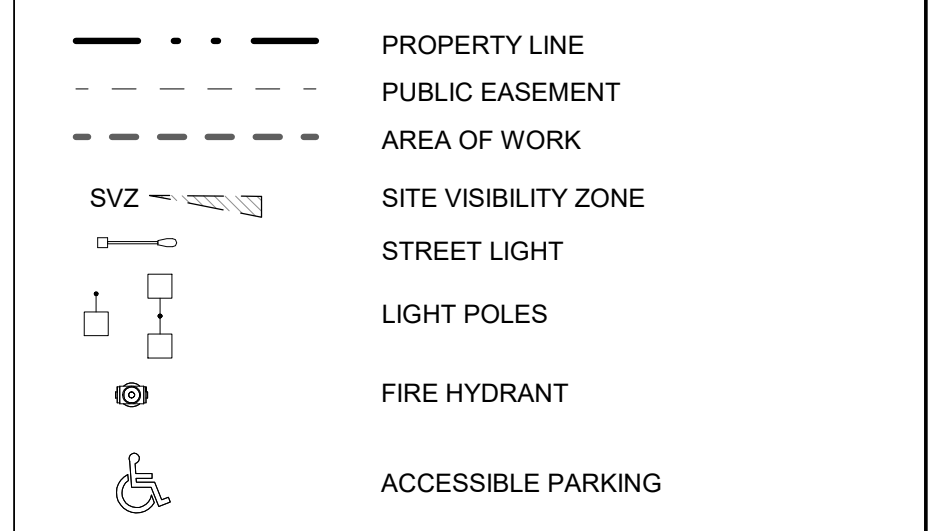


**1 ENLARGED SITE PLAN ADA PARKING**  
SCALE: 1/8" = 1'-0"

**SITE PLAN GENERAL NOTES**

1. SITE INFORMATION AND LANDSCAPE ON ARCHITECTURAL SITE PLAN ARE COMPLEMENTARY TO ALL OTHER DISCIPLINES INCLUDING CIVIL PLANS. DUPLICATION OF INFORMATION IS NOT INTENDED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN ON OR REQUIRED BY ALL DRAWING DISCIPLINES, UTILITY PROVIDERS AND AUTHORITY HAVING JURISDICTION.
2. REFER TO CIVIL DRAWINGS FOR ADDITIONAL DIMENSIONS AND INFORMATION, LAYOUT PAVING AND ALL SITE CURB RADIUS DIMENSIONS AND DIMENSIONS NOT SHOWN ON ARCHITECTURAL SITE PLAN.
3. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF ALL SITE LIGHTING AND ELECTRICAL REQUIREMENTS.
4. REFER TO LANDSCAPE DRAWINGS FOR ALL LANDSCAPING AND IRRIGATION REQUIREMENTS.
5. ALL SIDEWALK DIMENSIONS SHOULD BE MINIMUM OF 5'-0" FROM FACE OF CURB TO EDGE OF SIDEWALL. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
6. PROVIDE CONTROL JOINTS (CJ) SPACED APPROXIMATELY 5'-0" ON CENTER AND APPROXIMATELY 10'-0" ON CENTER EACH WAY FOR LARGER SLABS UNO PROVIDE EXPANSION JOINTS (EJ) AT 30'-0" ON CENTER INTERVALS.
7. ALL NEW CONCRETE SLABS/FLATWORK TO HAVE A TYPE II BASE THROUGHOUT UNLESS NOTED OTHERWISE. ALL NEW CONCRETE TO HAVE A MAXIMUM 1/8" SAWCUT JOINTS. ALL EXISTING CONCRETE SIDEWALK TO HAVE A NEW EXTERIOR GRADE JOINT AT ALL EXISTING TOOLED JOINTS THROUGHOUT THE PROPERTY.
8. EXTERIOR CONCRETE SLABS TO RECEIVE LIGHT BROOM FINISH UNLESS OTHERWISE REQUIRED BY AUTHORITY HAVING JURISDICTION.
9. CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITION.
10. REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR GEOTECHNICAL RECOMMENDATIONS. FOLLOW ALL RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION UNLESS MORE STRINGENT REQUIREMENTS APPEAR IN THESE CONTRACT DOCUMENTS.
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**SITE LEGEND**



**KEYNOTES**

- 03-01 NEW CONCRETE SIDEWALK. SEE CIVIL
- 03-05 NEW CONCRETE VALLEY GUTTER. SEE CIVIL DRAWINGS
- 03-06 NEW CONCRETE CURB. SEE CIVIL DRAWINGS
- 32-03 LANDSCAPE AREA, TYPICAL. SEE LANDSCAPE AND CIVIL DRAWINGS
- 32-04 ACCESSIBLE PARKING SIGNAGE. REFER TO CLV 11.52.135, NRS 494B.467. SEE SHEET A1.22
- 32-07 SIDEWALK, TYP. CONSTRUCT PER CCAUSD #234. SEE CIVIL DRAWINGS AND SEE SHEET A1.22
- 32-17 NEW SOLID WHITE PARKING STRIPE. SEE CIVIL DRAWINGS
- 32-18 TRUNCATED DOMES PER CCAUSD #235. SEE CIVIL DRAWINGS SEE SHEET A1.22
- 32-19 PARKING BUMPER BLOCK. SEE SHEET A1.22
- 32-20 ACCESSIBLE PARKING SYMBOLS. SEE SHEET A1.22
- 32-23 NEW SMOOTH FINISH CONCRETE. PAINT REGULATION SIZED SHUFFLEBOARD COURTS ONTO SURFACE OF CONCRETE.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
ENLARGED SITE PLANS

REVISIONS		
No.	Description	Date

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DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
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SHEET  
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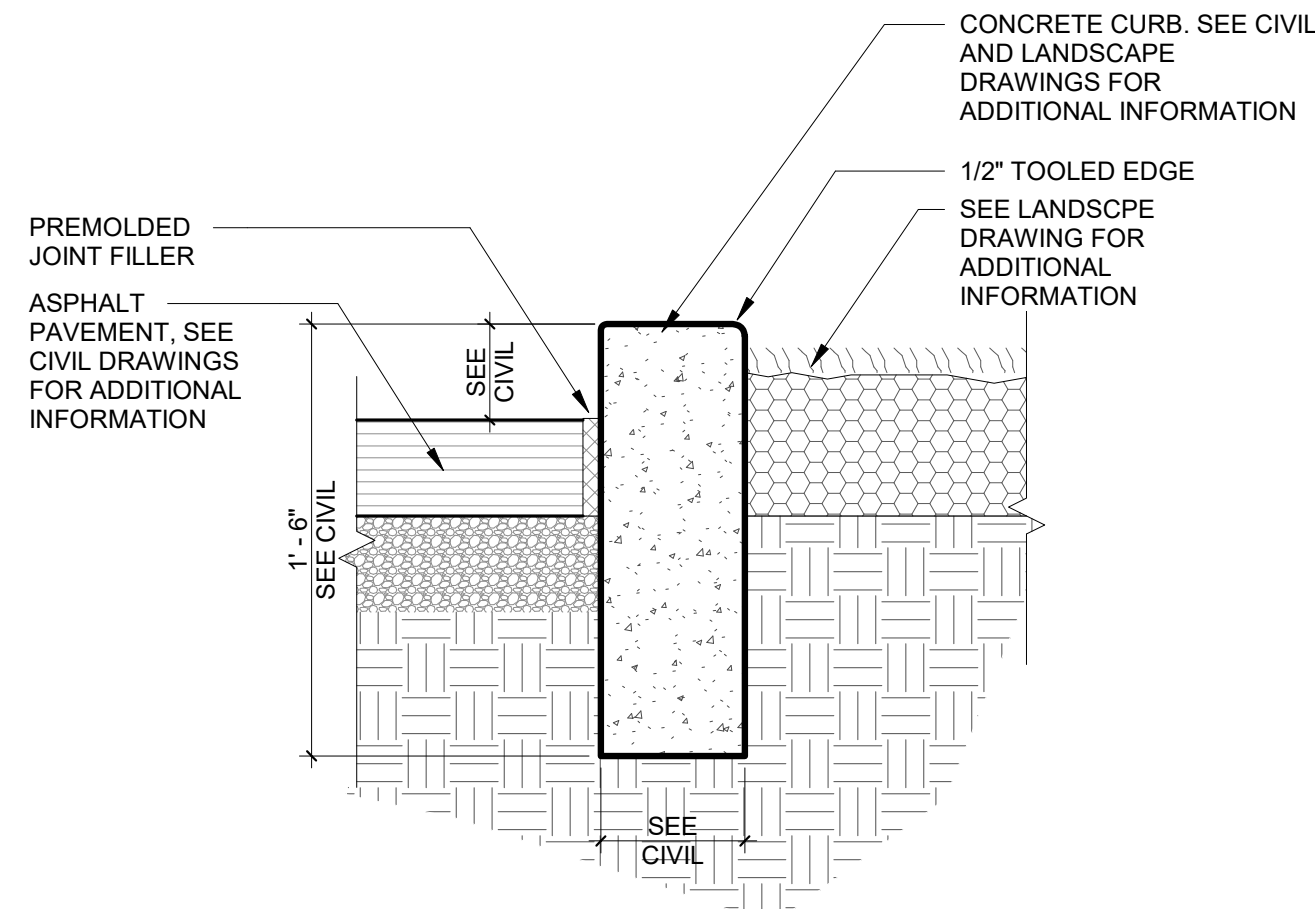


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No.	Description	Date

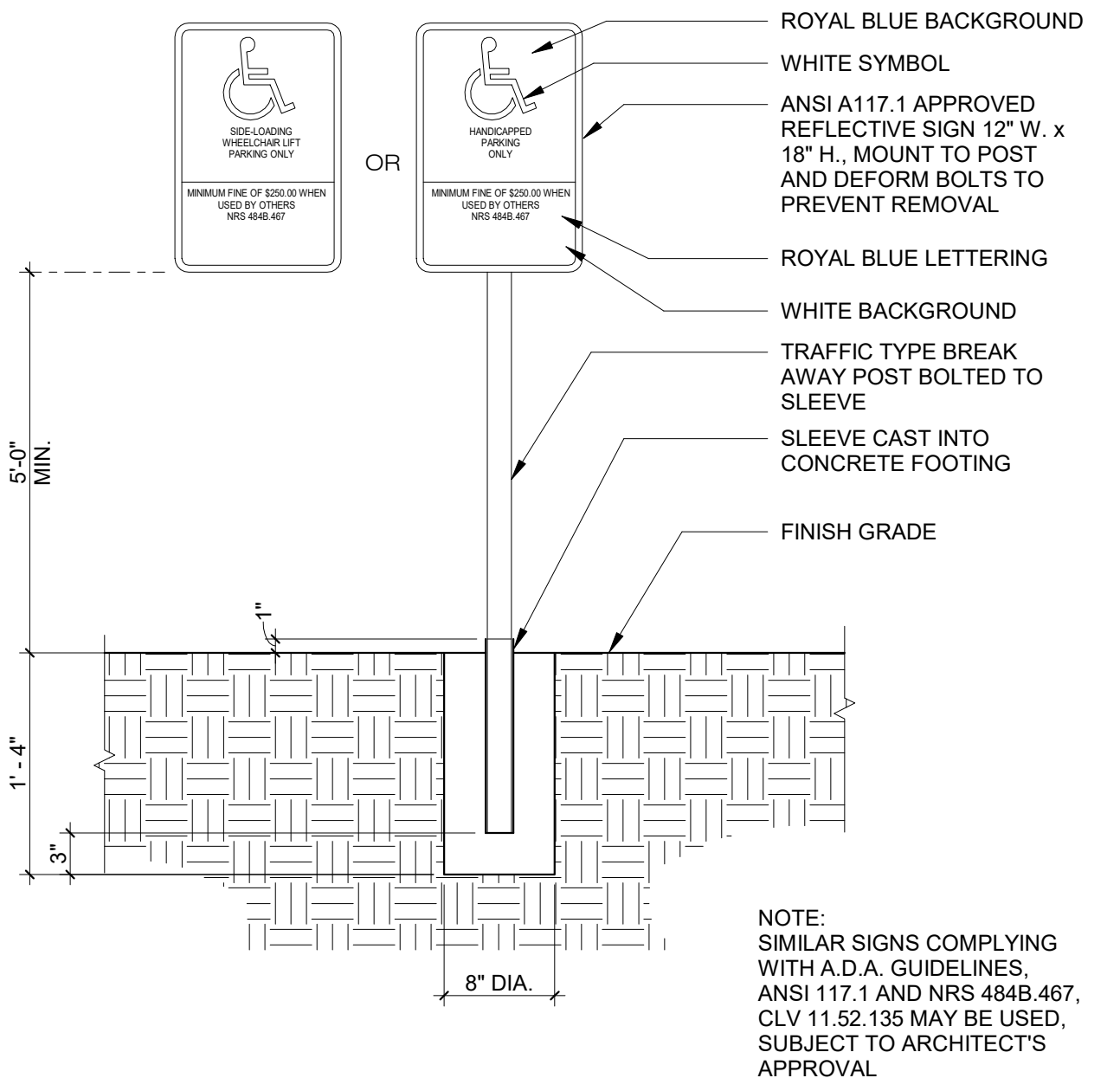
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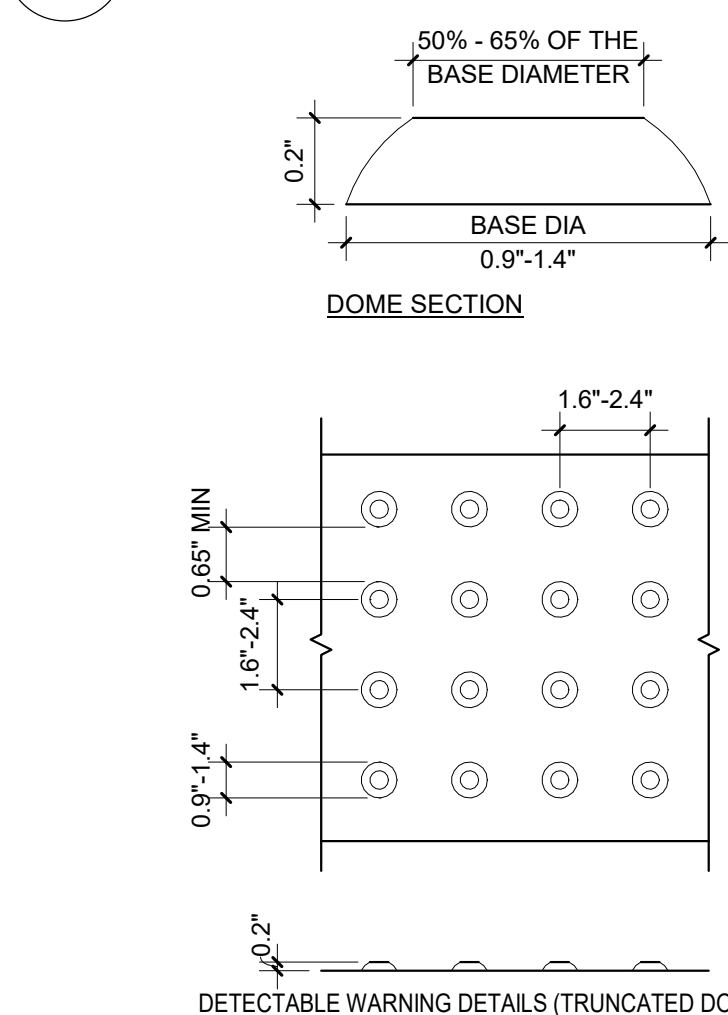


10 CONC CURB AT LANDSCAPE  
SCALE: 1 1/2" = 1'-0"



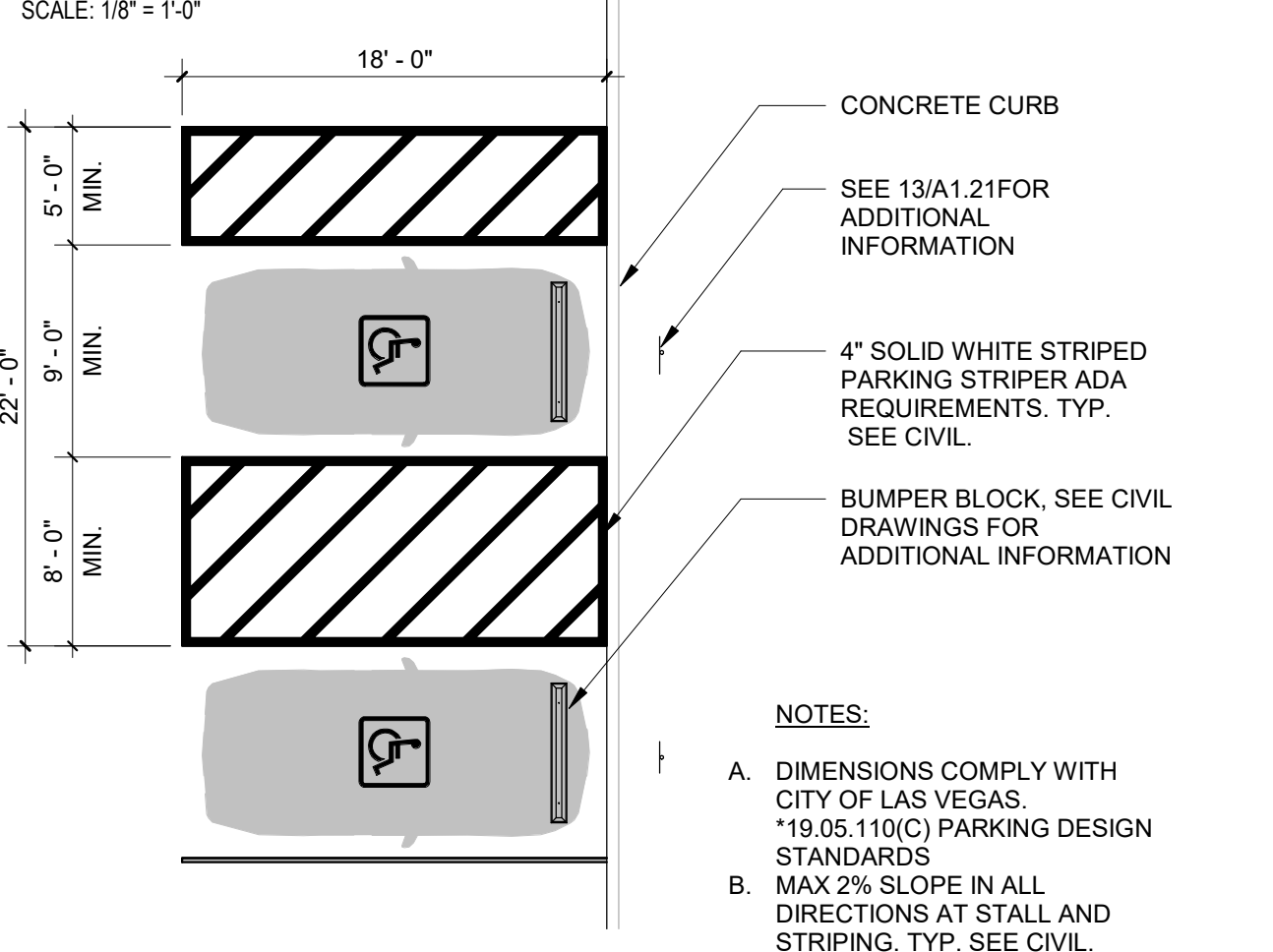
3 ACCESSIBLE PARKING SIGNAGE  
SCALE: 1" = 1'-0"

6 SIGNAGE ATTACHMENT  
SCALE: 3" = 1'-0"

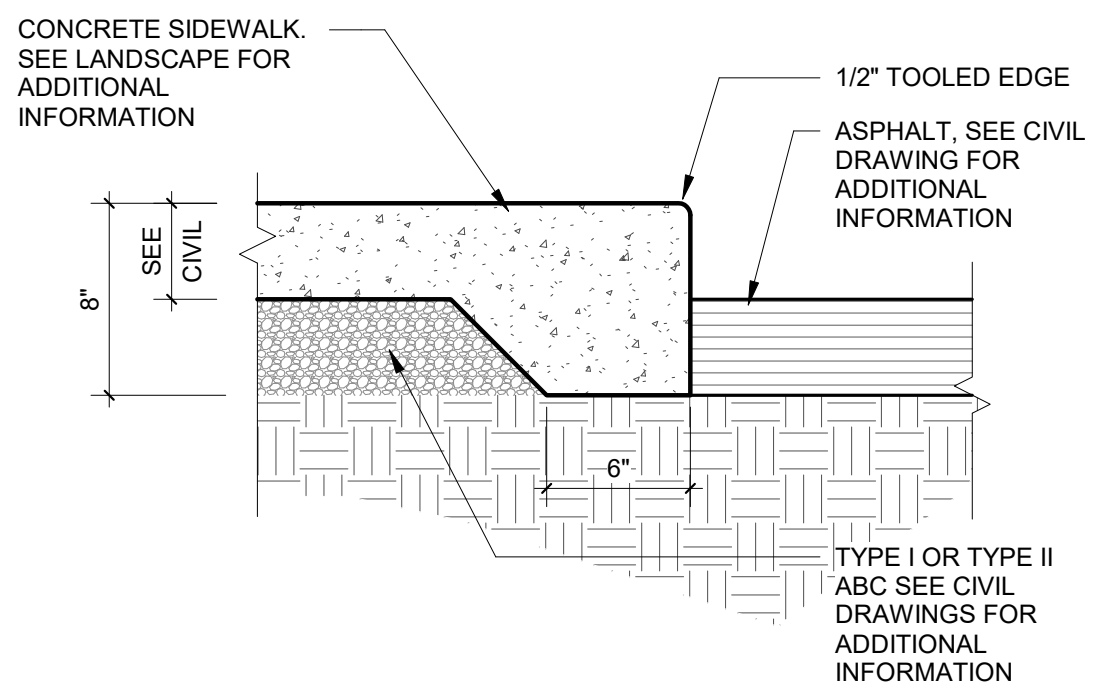


5 TRUNCATED DOMES  
SCALE: 1/2" = 1'-0"

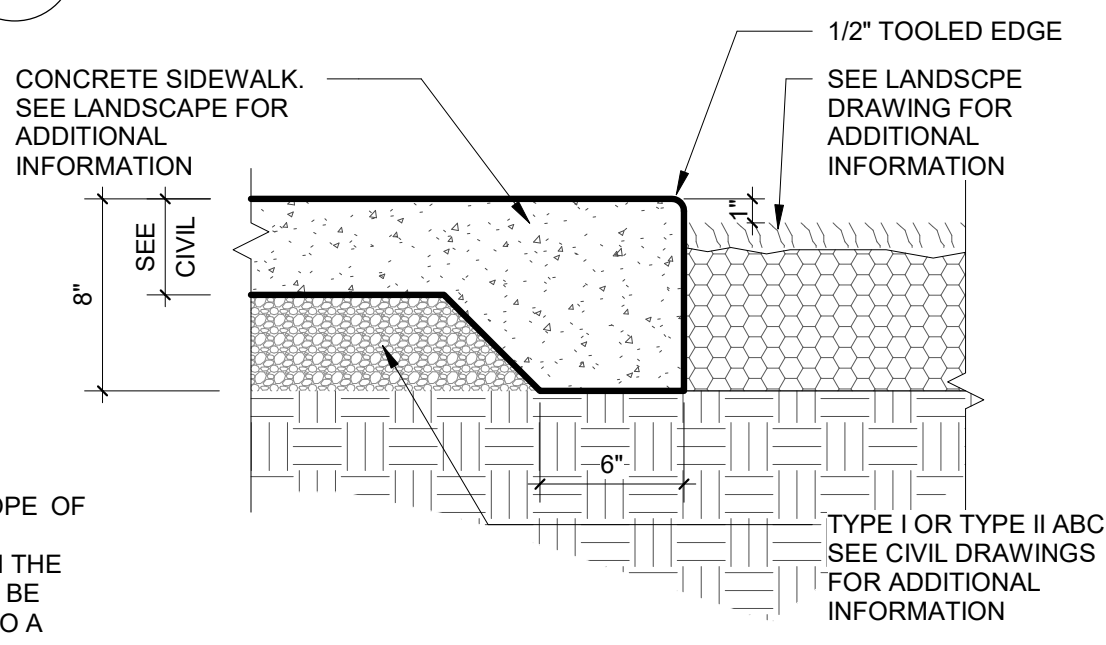
2 HANDICAP PARKING SPACE - STANDARD  
SCALE: 1/8" = 1'-0"



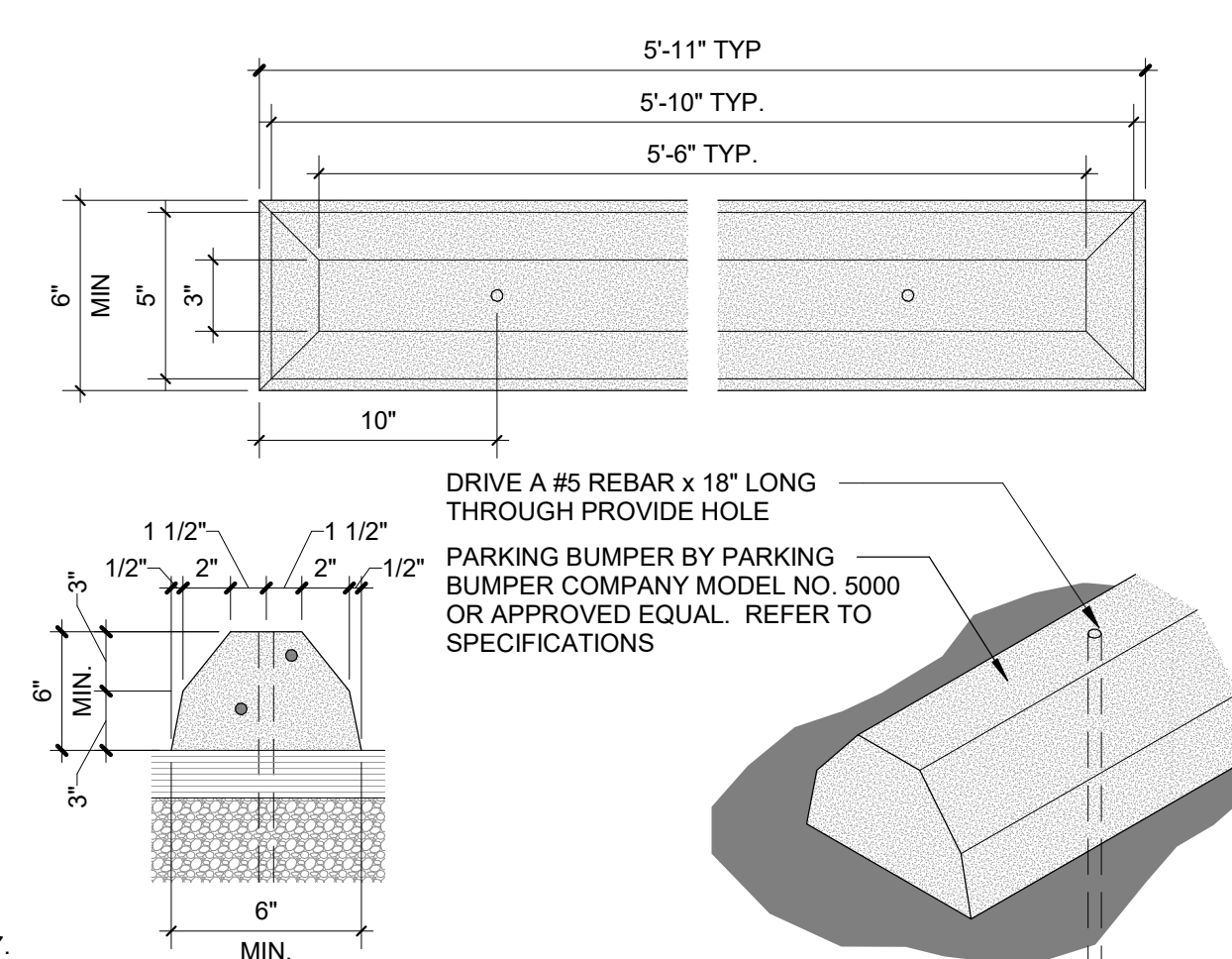
1 HANDICAP PARKING SPACE - SIDE-LOADING WHEELCHAIR LIFT  
SCALE: 1/8" = 1'-0"



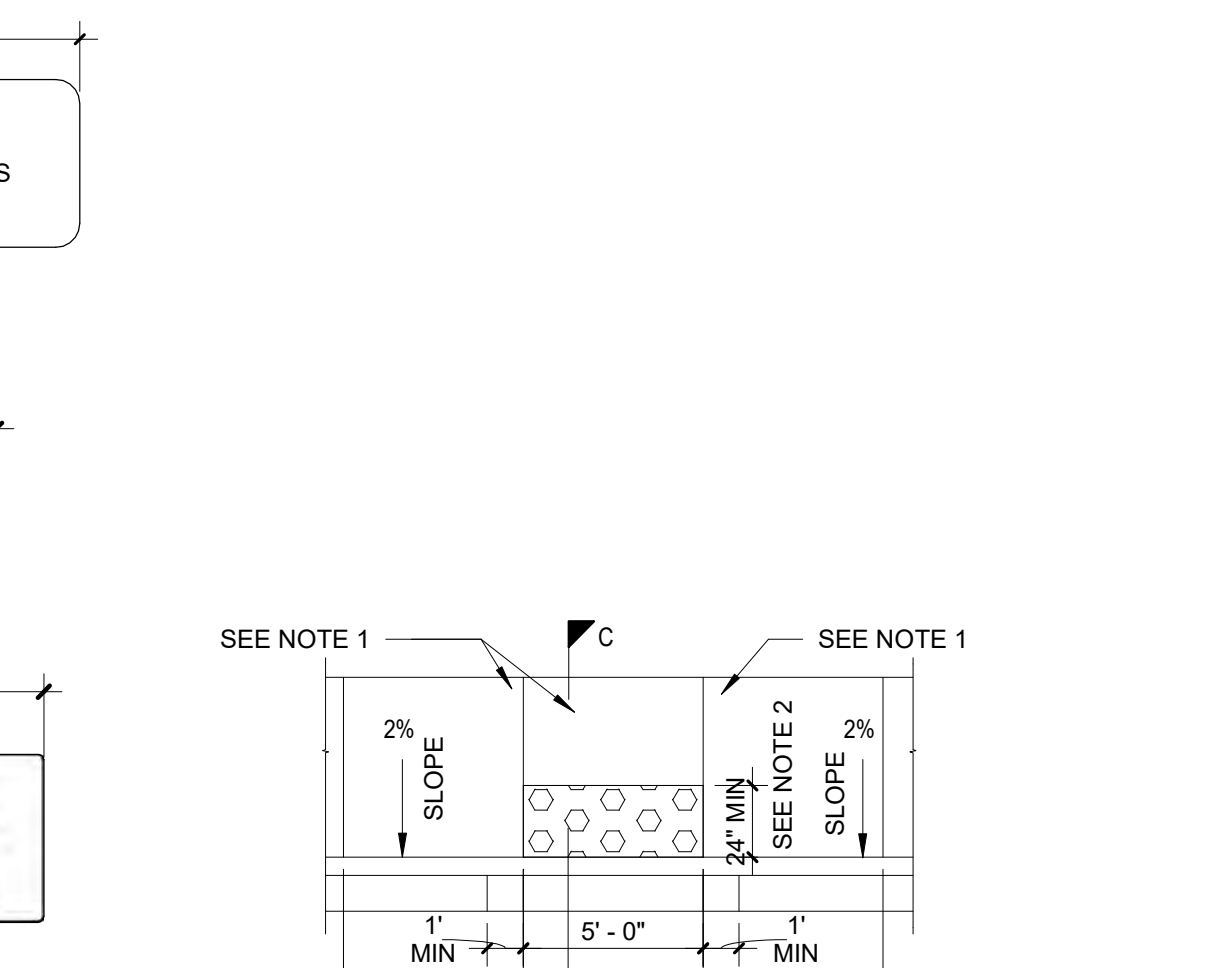
9 CONCRETE EDGE  
SCALE: 1 1/2" = 1'-0"



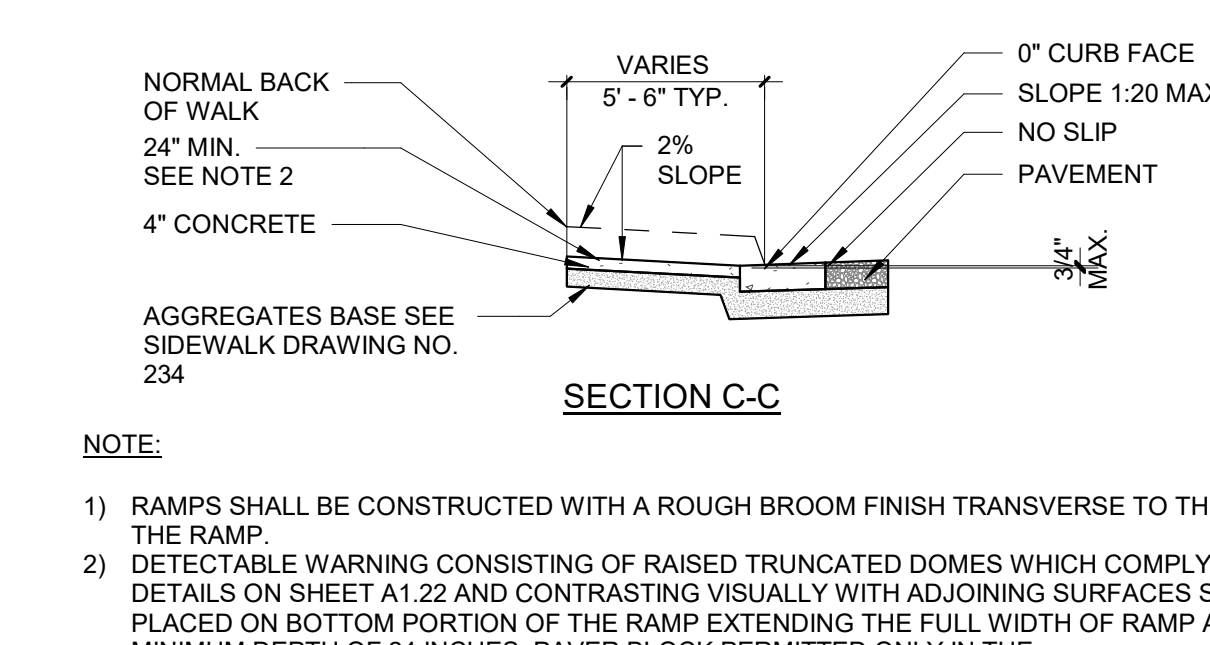
8 CONCRETE EDGE AT LANDSCAPE  
SCALE: 1 1/2" = 1'-0"



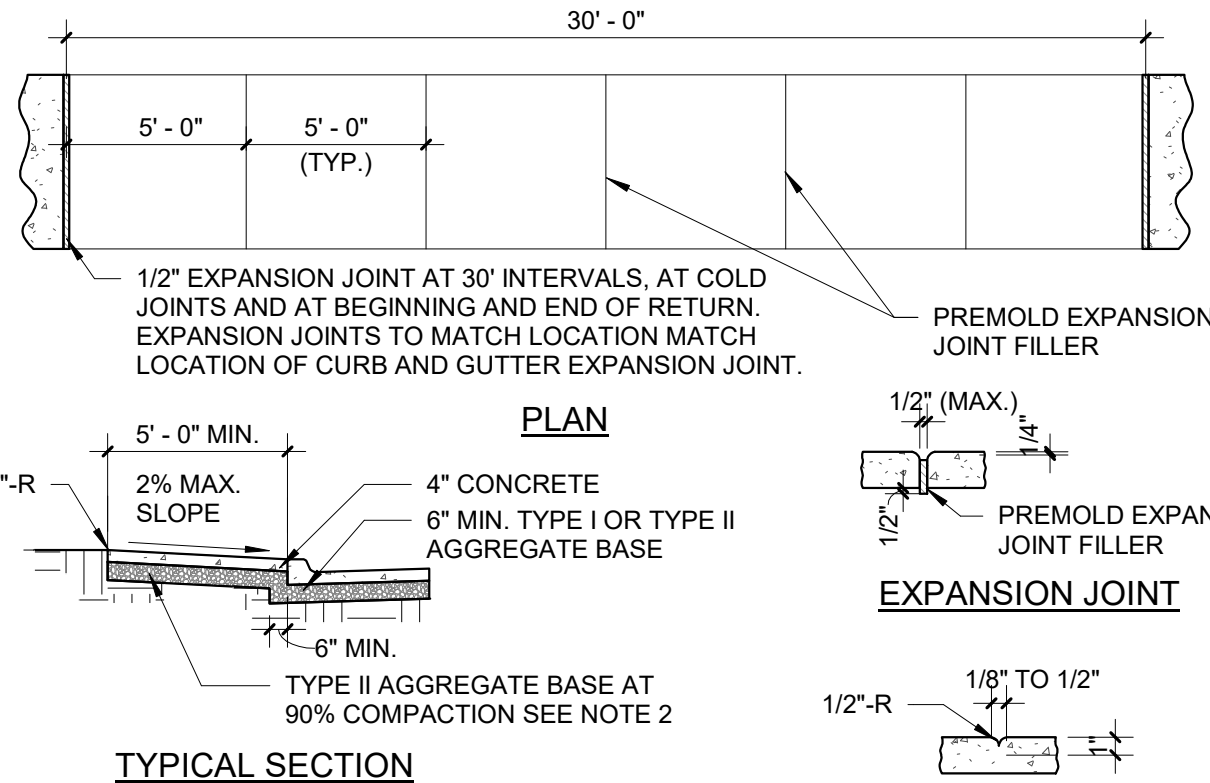
7 PARKING BLOCK DETAIL  
SCALE: 1 1/2" = 1'-0"



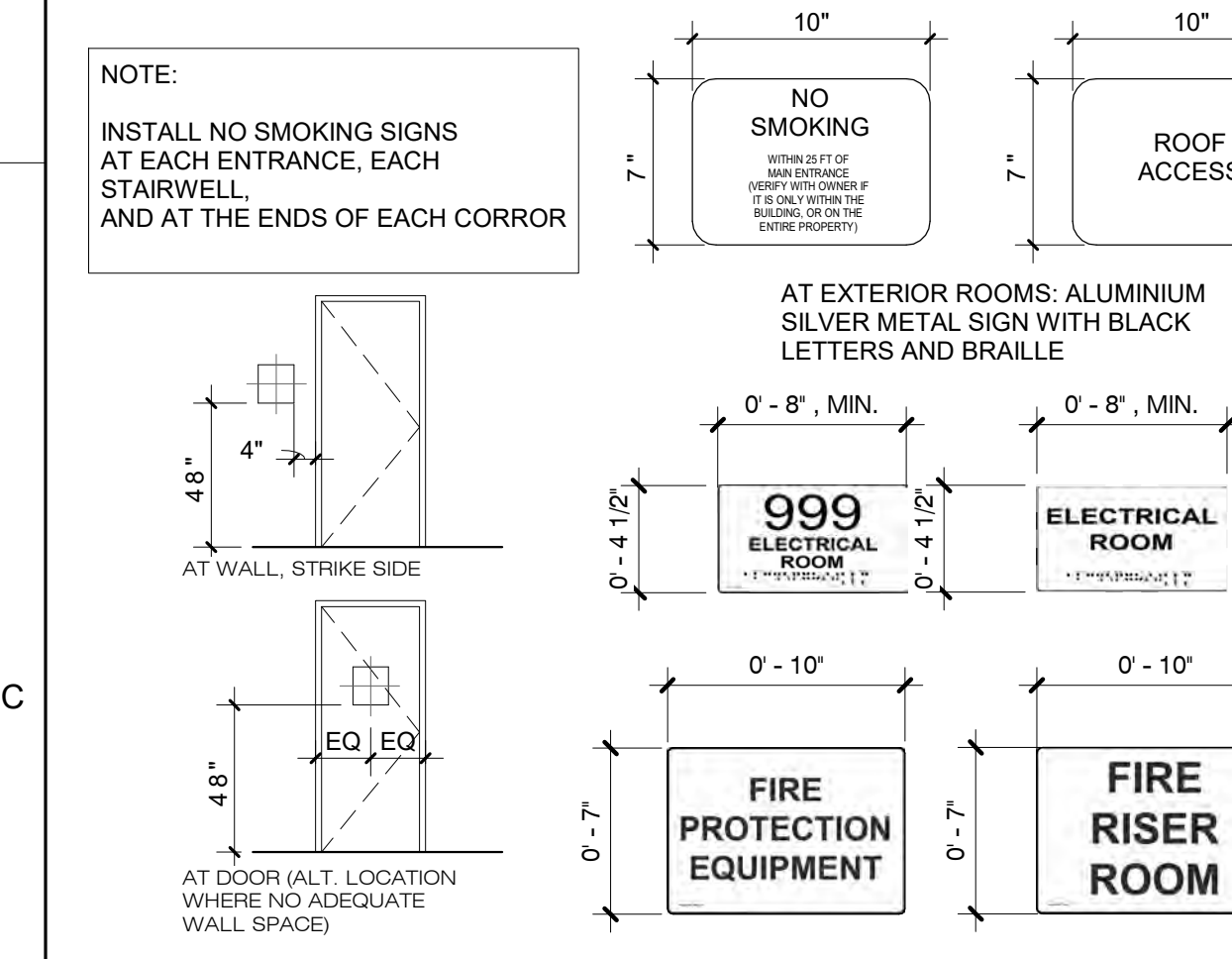
15 NO SMOKING SIGN / FIRE RISER ROOM  
SCALE: 1 1/2" = 1'-0"



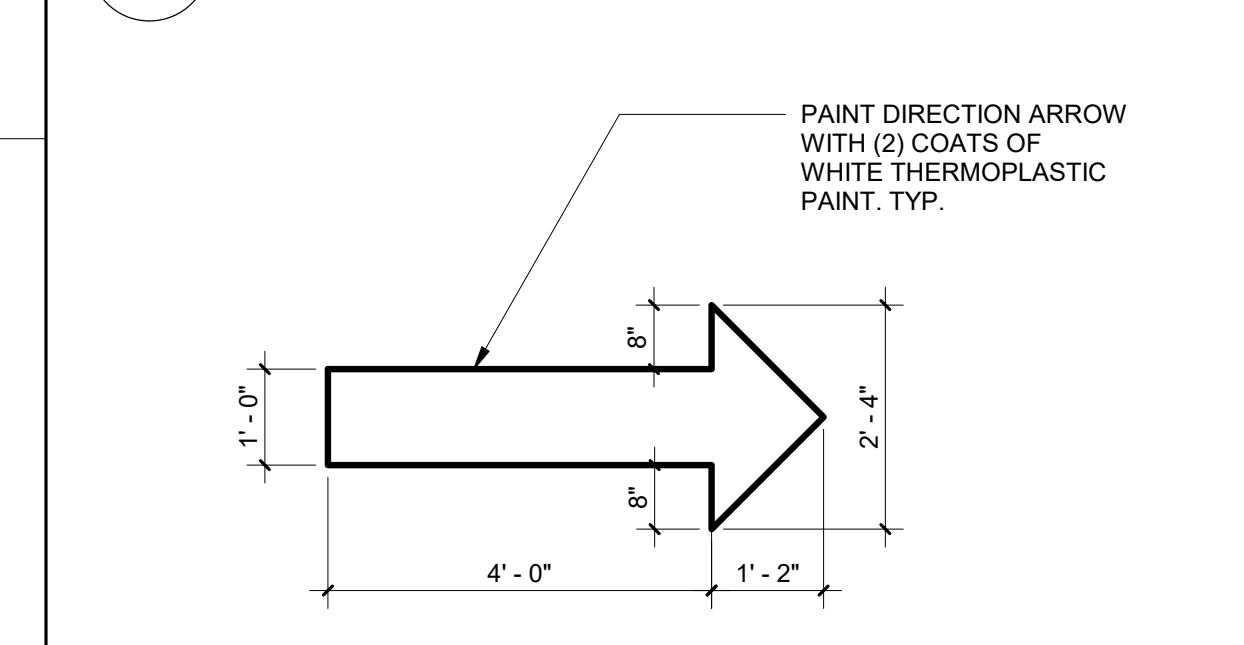
12 RAMP OUTSIDE CURB RETURN  
SCALE: 3/16" = 1'-0"



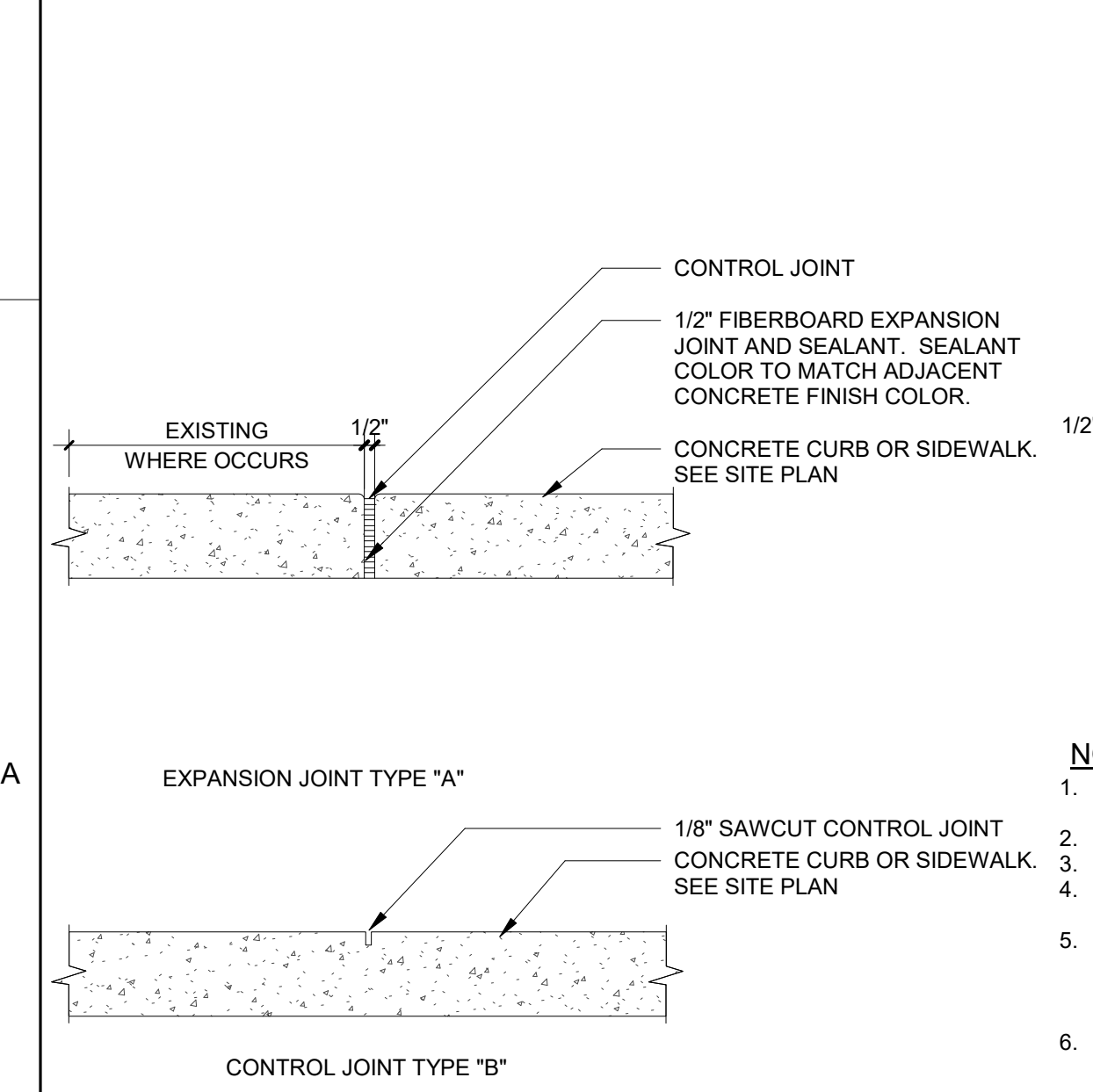
11 SIDEWALK  
SCALE: 3/16" = 1'-0"



14 DIRECTION ARROW  
SCALE: 1/2" = 1'-0"



13 CONCRETE JOINT DETAIL  
SCALE: 1 1/2" = 1'-0"



1 HANDICAP PARKING SPACE - SIDE-LOADING WHEELCHAIR LIFT  
SCALE: 1/8" = 1'-0"

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KEYNOTES	
05-05	NEW TRELLIS MC SHAPES RAFTERS, PAINT COLOR TO MATCH BUILDING EXTERIOR COLOR
05-06	NEW TRELLIS 4X12 HSS RIDGE BEAM, PAINT COLOR TO MATCH, SEE STRUCTURAL
05-07	NEW TRELLIS 4X12 HSS BEAM, PAINT COLOR TO MATCH
05-08	NEW HSS COLUMN, SEE STRUCTURAL FOR EMBEDDED STEEL POST DETAIL
07-06	WALL SCUPPER, PAINT
07-07	PARAPET WALL CAP, PAINT
09-01	7/8" THICK THREE COAT STUCCO SYTEM, COLOR TO MATCH EXISTING ADJACENT BUILDING
09-04	NEW 18" OUTSIDE DIAMETER POLYISO COLUMN WRAP, PAINT

**KME ARCHITECTS**  
 5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
 Fax: 702.888.2089  
 Web: www.kmearchitects.com  
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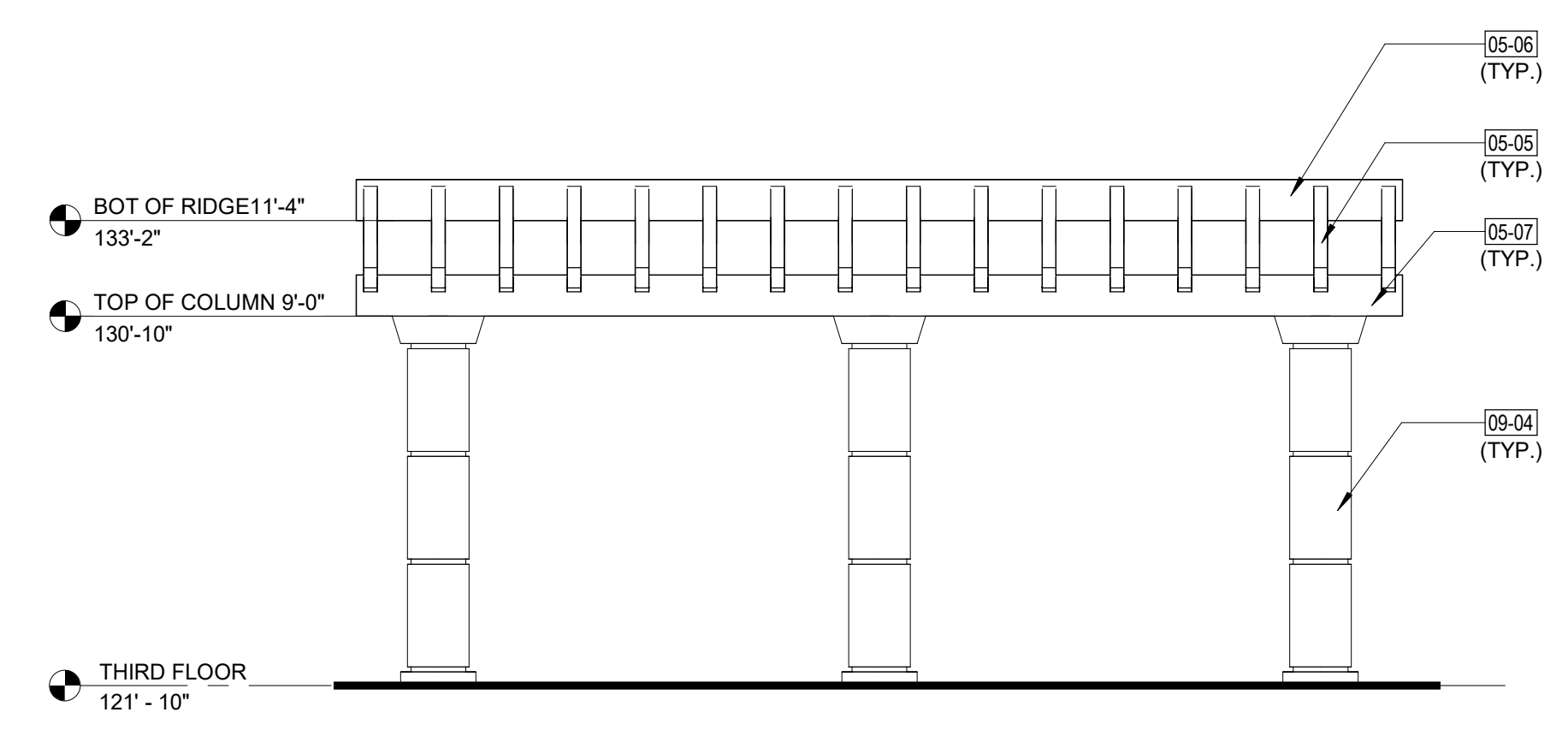
**PROJECT:**  
**SNRHA BENNETT PLAZA PHASE II**  
 1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
**ENLARGED TRELLIS DETAILS**

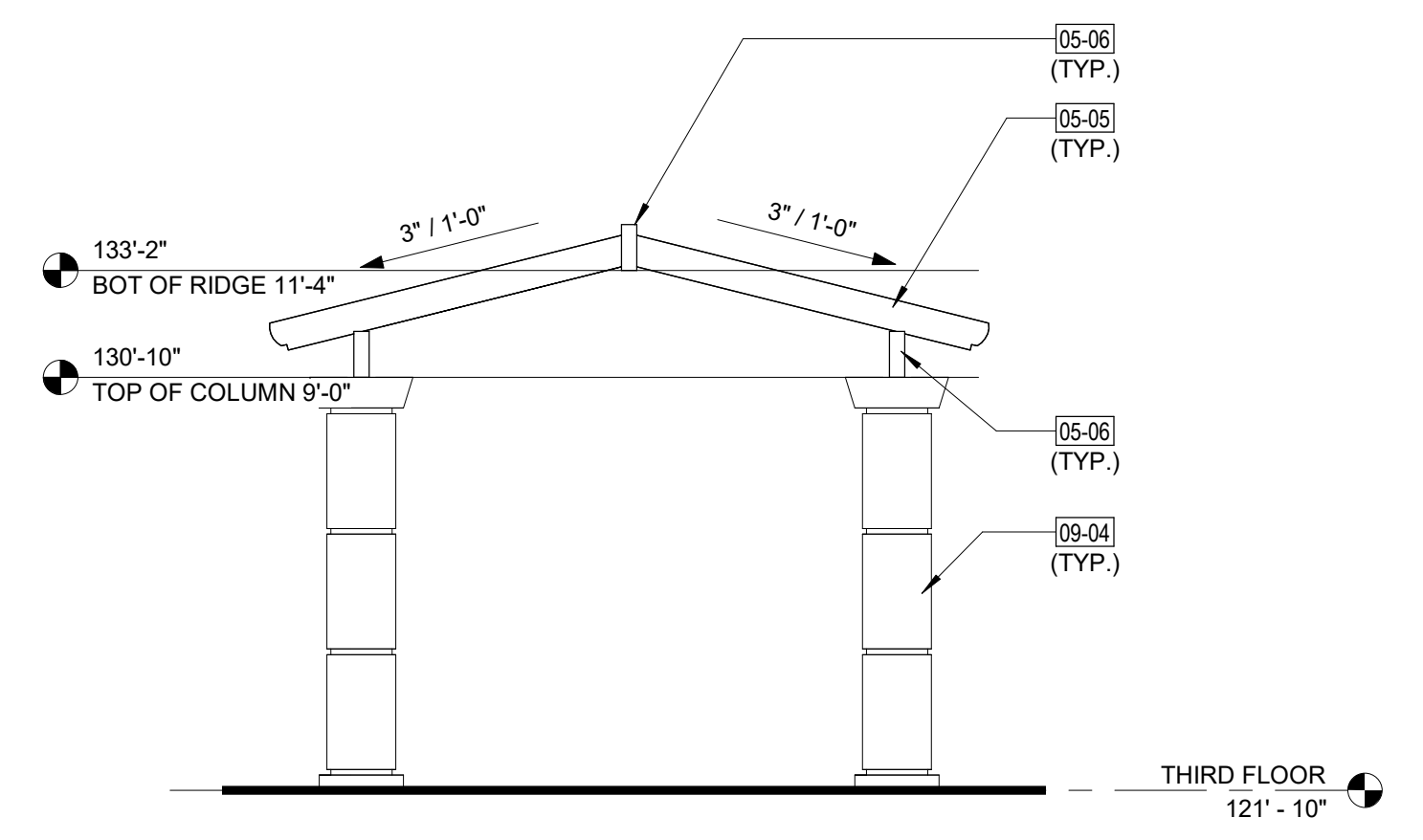
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No.	Description	Date

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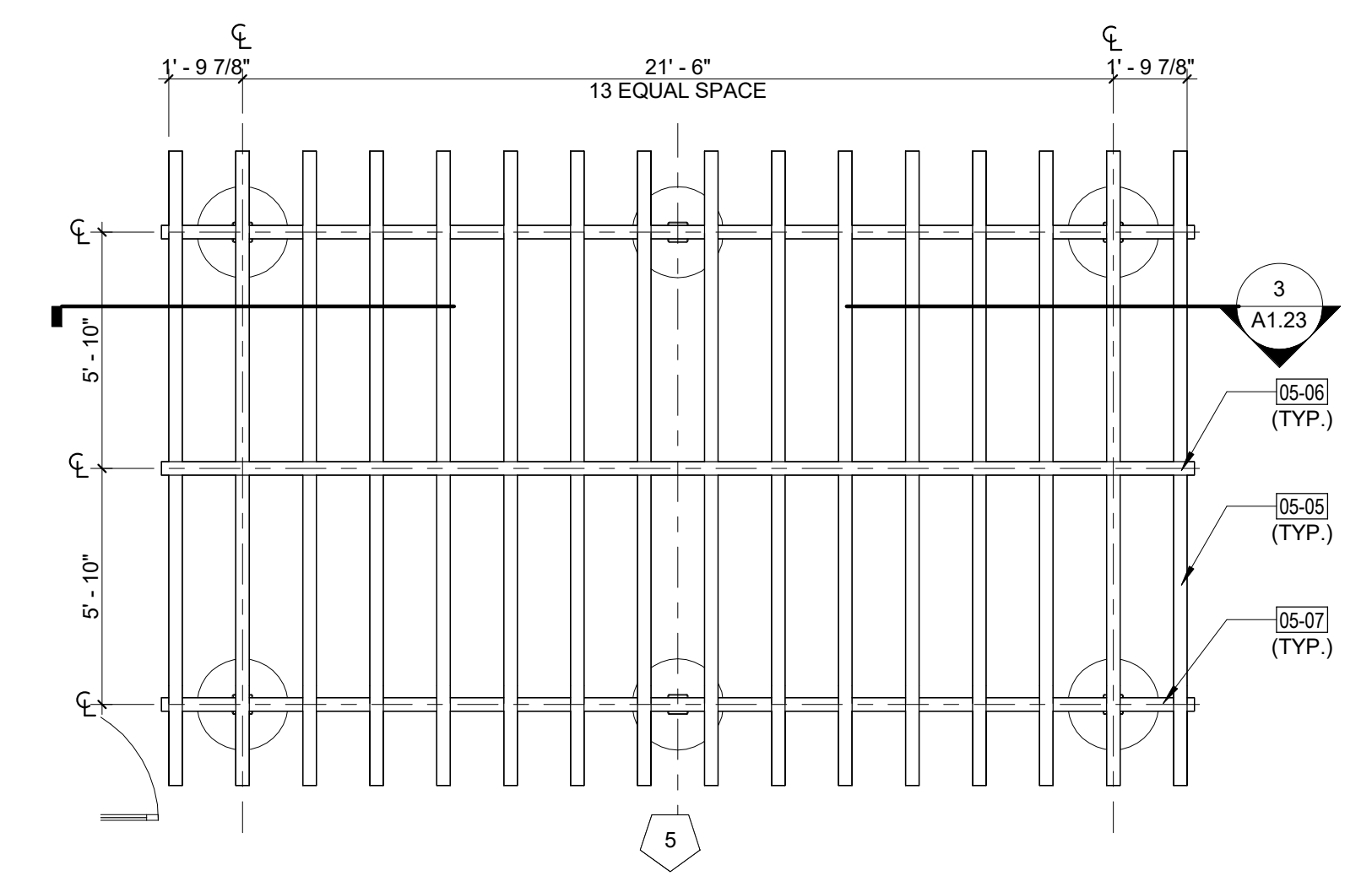
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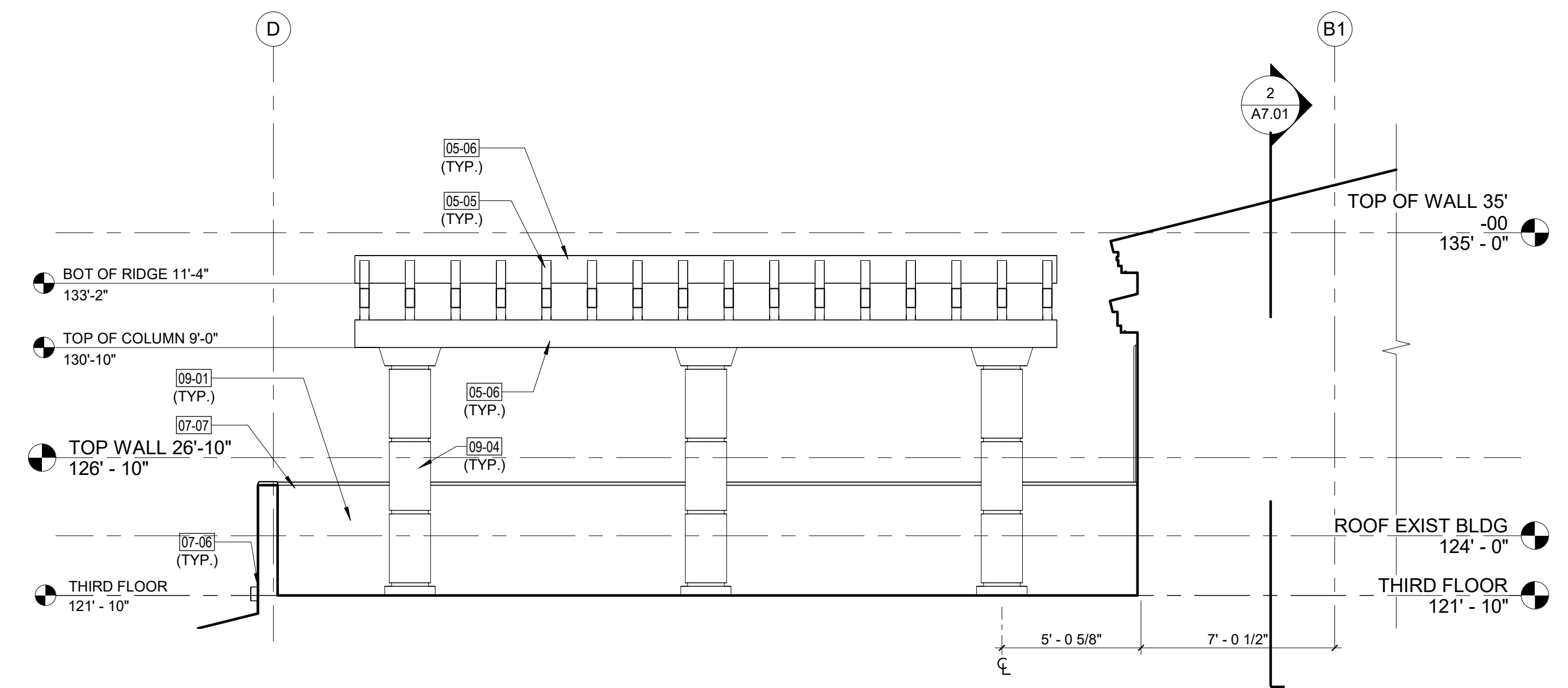
**5 TRELLIS OUTDOOR ELEVATION**  
 SCALE: 1/4" = 1'-0"



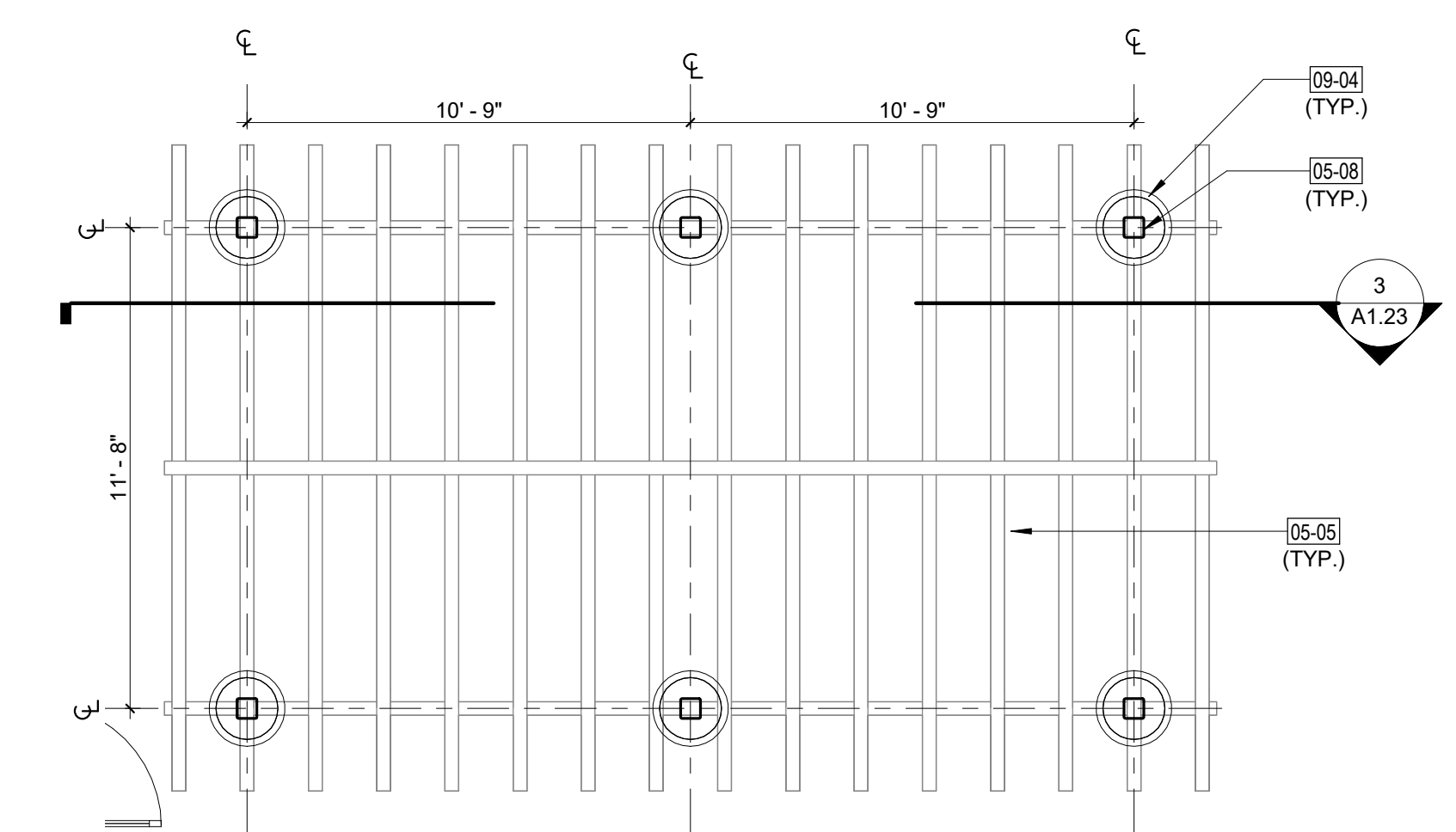
**4 TRELLIS OUTDOOR ELEVATION**  
 SCALE: 1/4" = 1'-0"



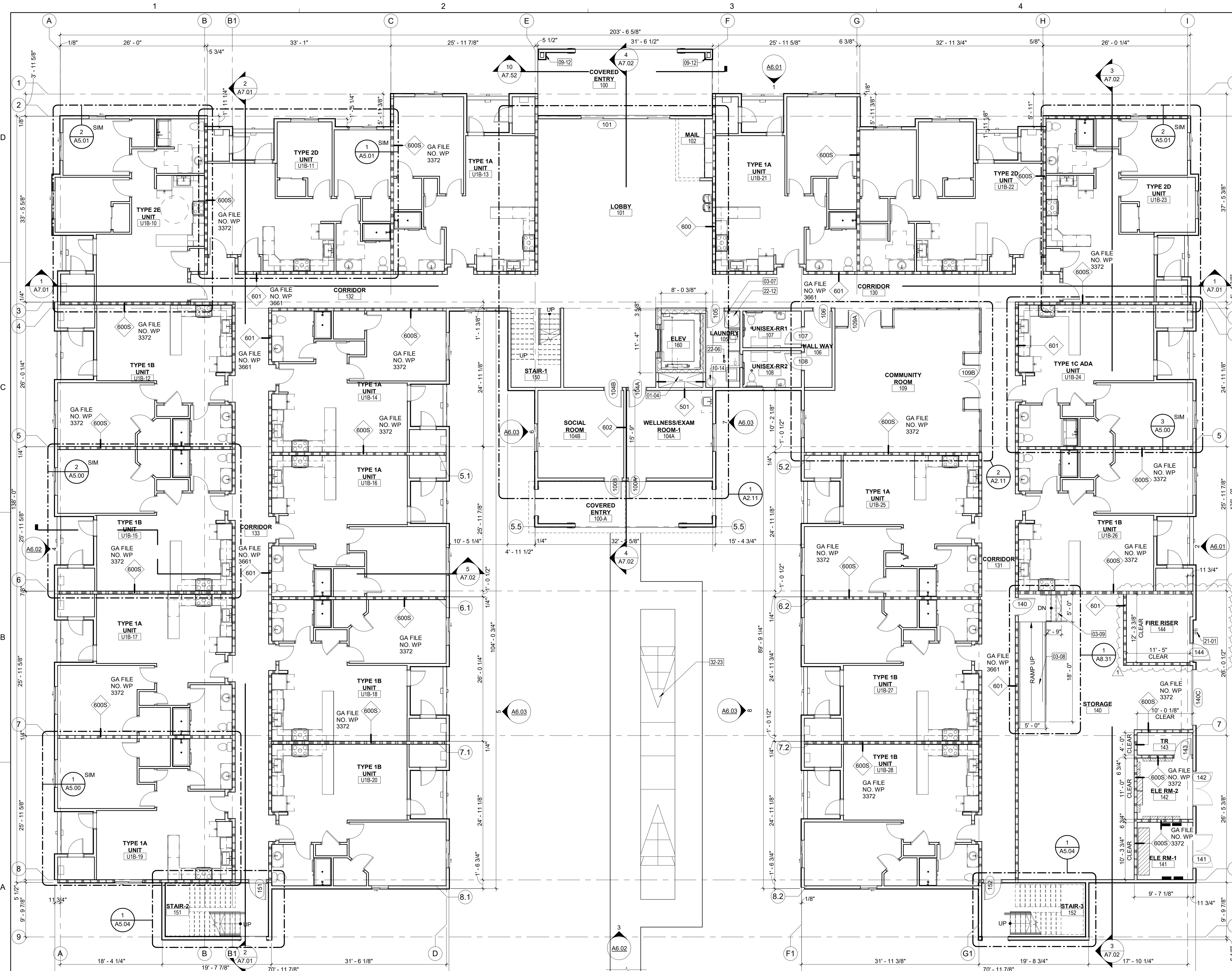
**2 ENLARGED OUTDOOR TRELLIS ROOF PLAN - THIRD FLOOR**  
 SCALE: 1/4" = 1'-0"



**3 SECTION OUTDOOR TERRACE**  
 SCALE: 1/4" = 1'-0"



**1 ENLARGED OUTDOOR TRELLIS PLAN - THIRD FLOOR**  
 SCALE: 1/4" = 1'-0"



**FLOOR PLAN GENERAL NOTES**

- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
- WALL TYPES A70 TO BE FOUND ON SHEETS A8.00. CONTRACTOR SHALL NOTIFY ARCHITECT FOR ANY WALL TYPE CLARIFICATIONS.
- ALL DOOR FRAMES AND FINISHED OPENINGS TO BE INSTALLED 4" AWAY FROM ADJACENT PERPENDICULAR WALL OR CENTERED IN WALL UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE AND SIZE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AUTHORITY HAVING JURISDICTION AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.
- ALL EXPOSED METAL WELDS SHALL BE GROUND SMOOTH WITH NO PITS. ALL EXPOSED METAL THAT ARE TO RECEIVE PAINT SHALL BE SMOOTH AND PRIMED WITH RUST RESISTANT PRIMER. ALL SHEET METAL FLASHING SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL SHEET METAL MANUAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA). THE INSTALLATION AND STORAGE OF FIRE-RATED DOORS AND FRAMES AND/OR EXPANDED METAL PRODUCTS SHALL BE IN ACCORDANCE WITH THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM).
- UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL PROVIDE MOCK-UP PANELS. THESE INCLUDE ALL EXTERIOR MATERIALS, WINDOWS, ROOFING, AND PAINT COLORS. THE CONTRACTOR MAY USE THESE MOCK-UP PANELS WITHIN THE PROJECT CONSTRUCTION.
- UNLESS NOTED OTHERWISE CONTRACTOR SHALL PROVIDE SEALANT AND BACKER ROD AT TRANSITIONS OF DISSIMILAR MATERIALS. ALL PENETRATIONS THROUGH THE ENCLOSURE SURFACE SHALL BE THOROUGHLY SEALED TO CREATE AN AIR-TIGHT AND WATER-TIGHT INTERFACE, USING APPROPRIATE SEALANT MATERIALS IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS OR GOOD INDUSTRY PRACTICE.

**SYMBOLS LEGEND**

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- X WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXX KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

**WALL RATING LEGEND**

- 1 HR FIRE RATED WALL ASSEMBLY

**TYPICAL UNITS SCHEDULE**

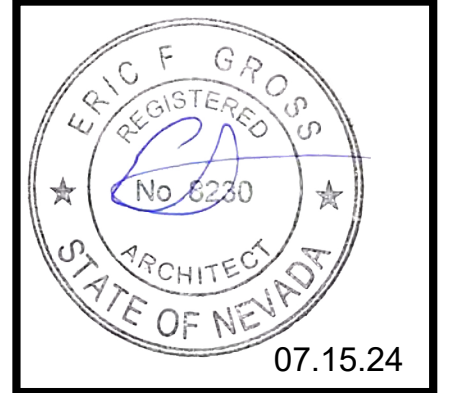
UNIT TYPE	TOTAL UNITS	COMMENTS
1A	32	TYPICAL 1 BEDROOM UNIT
1B	14	TYPICAL 1 BEDROOM UNIT
1C	3	TYPICAL 1 BEDROOM ACCESSIBLE
2D	8	TYPICAL 2 BEDROOM
2E	2	TYPICAL 2 BEDROOM ACCESSIBLE
	59	TOTAL UNITS ON ALL FLOORS

**KEYNOTES**

- 01-04 ROOF DRAIN PIPES CHASE
- 03-07 5" CONCRETE PAD FOR EWH
- 03-08 NEW CONCRETE RAMP. SEE DETAIL
- 03-09 NEW CONCRETE STAIR
- 10-14 SURFACE MOUNTED WASTE RECEPTACLE
- 21-01 NEW FIRE DEPARTMENT CONNECTION
- 22-06 FLOOR DRAIN. SEE PLUMBING DRAWINGS
- 22-12 ELECTRIC WATER HEATER. PROVIDE CONCRETE PAD AS REQUIRED. SEE PLUMBING DRAWINGS
- 32-23 NEW SMOOTH FINISH CONCRETE. PAINT REGULATION SIZED SHUFFLEBOARD COURTS ONTO SURFACE OF CONCRETE.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT: SNRHA BENNETT PLAZA PHASE II  
SHEET TITLE: OVERALL - FIRST FLOOR

**REVISIONS**

No.	Description	Date
1	CLV.COM.	6/21/24

DRAWN BY: KME  
DATE: 2023-014  
SCALE: AS INDICATED  
SHEET

**1 OVERALL FLOOR PLAN - FIRST FLOOR**  
SCALE: 1/8" = 1'-0"

**19 UNITS**



**A2.10**

1

2

3

4

5

D

C

B

A

FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
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- THE CONTRACTOR SHALL PROVIDE AND SIZE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AUTHORITY HAVING JURISDICTION AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.
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SYMBOLS LEGEND

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- Wall Type Tag - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXXX KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

WALL RATING LEGEND

- 1 HR FIRE RATED WALL ASSEMBLY

KEYNOTES

- 01-03 SOFFIT ABOVE
- 06-15 CASEWORK CABINET, SEE DETAIL
- 10-12 MAXIMUM OCCUPANCY SIGNAGE
- 22-01 DRINKING FOUNTAIN, PROVIDE MOUNTING BACKING AS REQUIRED. SEE PLUMBING DRAWINGS



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PROJECT: SNRHA BENNETT PLAZA PHASE II  
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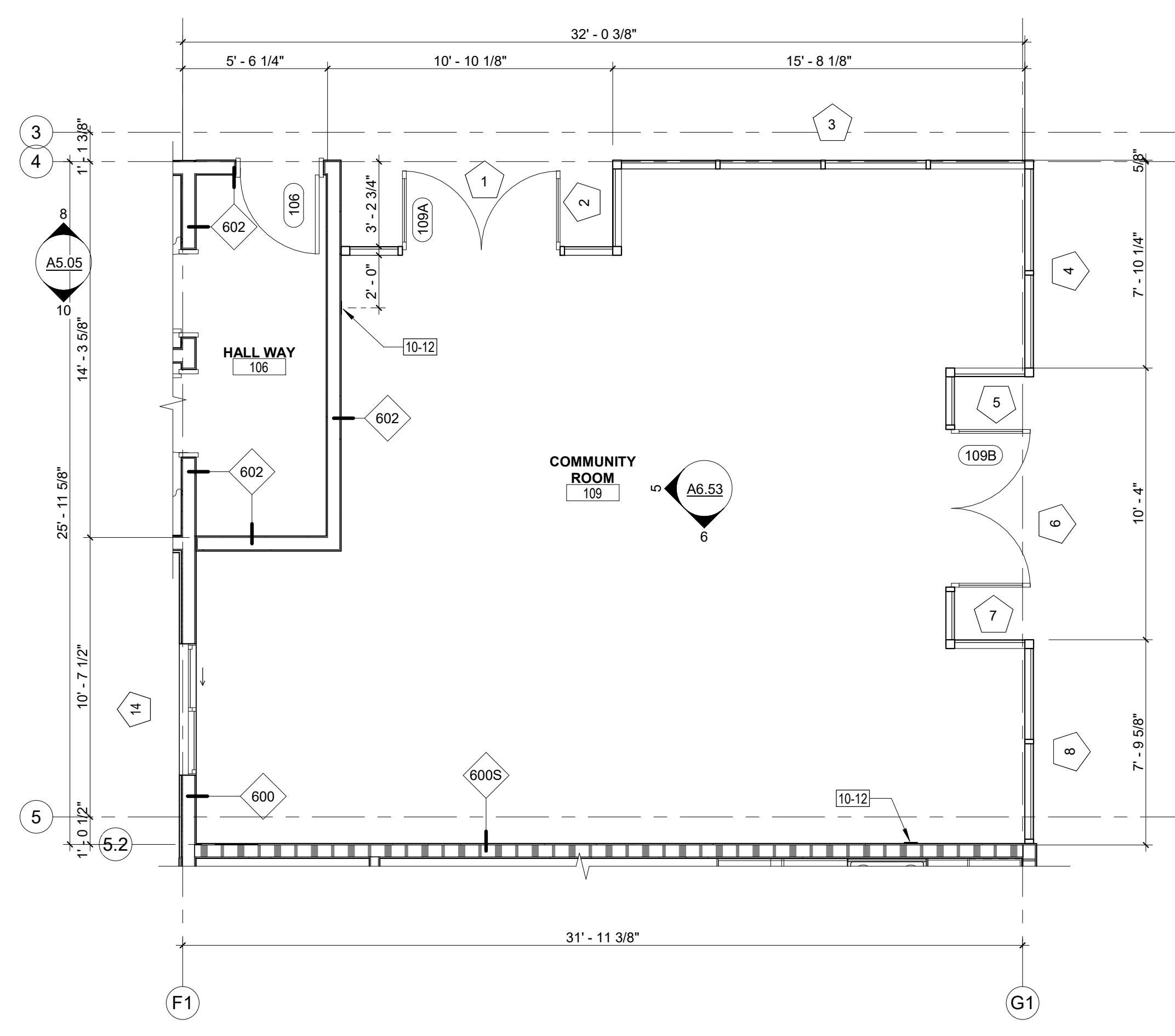
SHEET TITLE: ENLARGED PLANS - FIRST FLOOR

PROJECT:

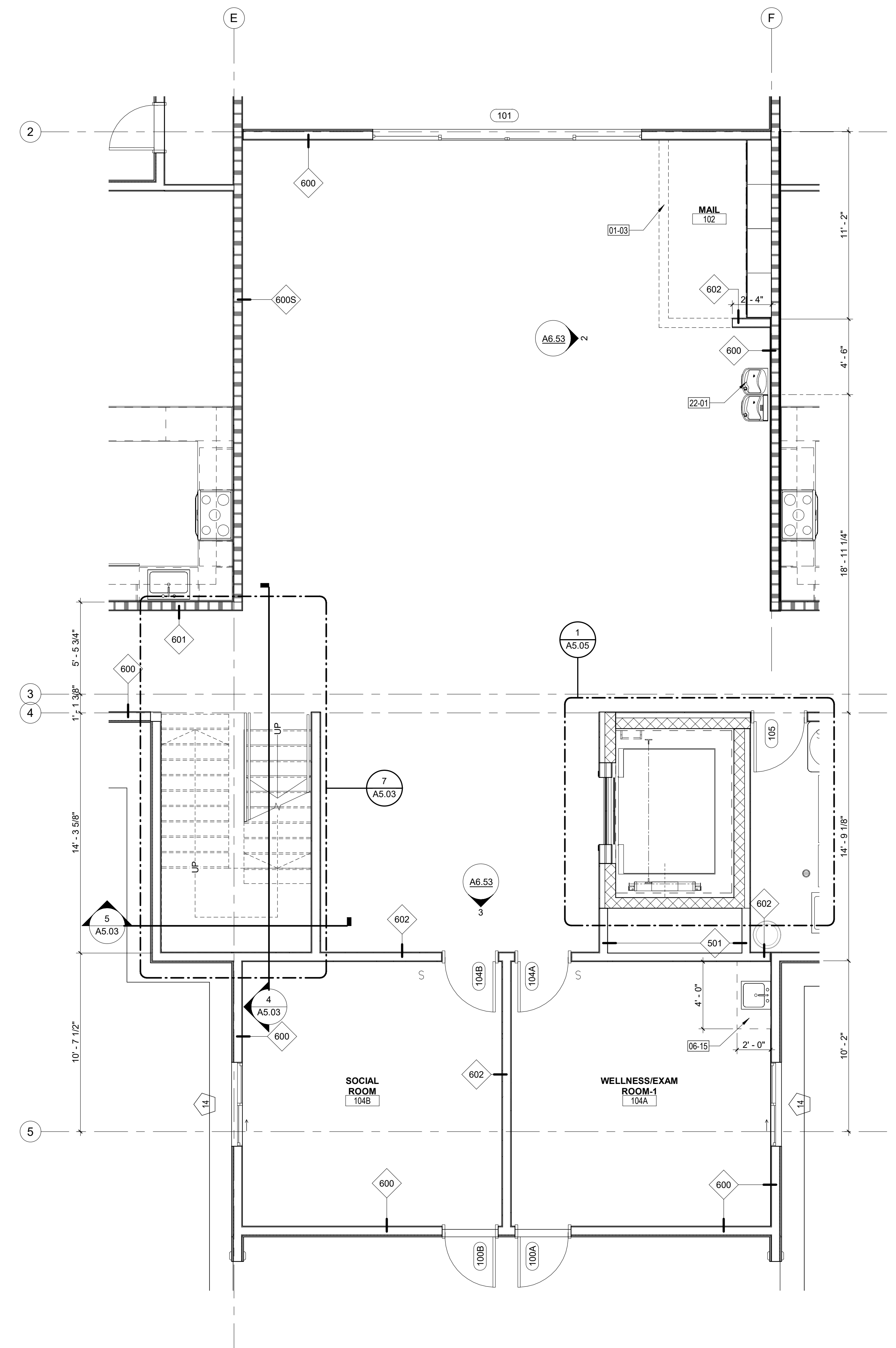
REVISIONS	No.	Description	Date

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

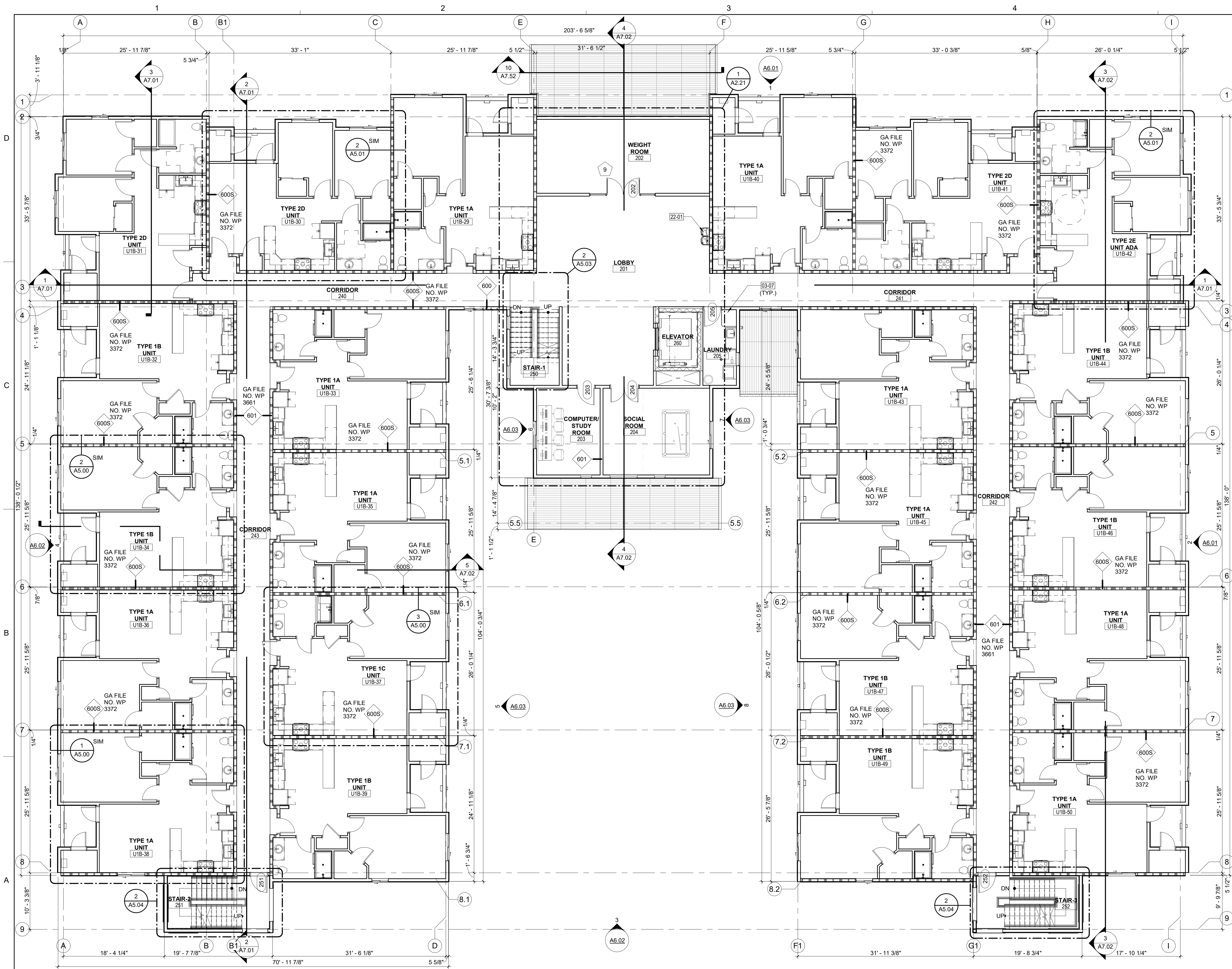
SHEET  
A2.11



2 FIRST FLOOR - COMMUNITY ROOM  
SCALE: 1/4" = 1'-0"



1 FIRST FLOOR - LOBBY  
SCALE: 1/4" = 1'-0"



**FLOOR PLAN GENERAL NOTES**

- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
- WALL TYPES A TO BE FOUND ON SHEETS A8.00. CONTRACTOR SHALL NOTIFY ARCHITECT FOR ANY WALL TYPE CLARIFICATIONS.
- ALL DOOR FRAMES AND FINISHED OPENINGS TO BE INSTALLED 4" AWAY FROM ADJACENT PERPENDICULAR WALL OR CENTERED IN WALL UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE AND SIZE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AUTHORITY HAVING JURISDICTION AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.
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**SYMBOLS LEGEND**

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- X WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXXX KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

**WALL RATING LEGEND**

- 1 HR FIRE RATED WALL ASSEMBLY

**TYPICAL UNITS SCHEDULE**

UNIT TYPE	TOTAL UNITS	COMMENTS
1A	32	TYPICAL 1 BEDROOM UNIT
1B	14	TYPICAL 1 BEDROOM UNIT
1C	3	TYPICAL 1 BEDROOM ACCESSIBLE
2D	8	TYPICAL 2 BEDROOM
2E	2	TYPICAL 2 BEDROOM ACCESSIBLE
	59	TOTAL UNITS ON ALL FLOORS

**KEYNOTES**

- 03-07 5" CONCRETE PAD FOR EWH
- 22-01 DRINKING FOUNTAIN, PROVIDE MOUNTING BACKING AS REQUIRED. SEE PLUMBING DRAWINGS

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave., Las Vegas, NV 89106

**SHEET TITLE:** OVERALL - SECOND FLOOR

**REVISIONS**

No.	Description	Date
1	CLV.COM.	6/21/24

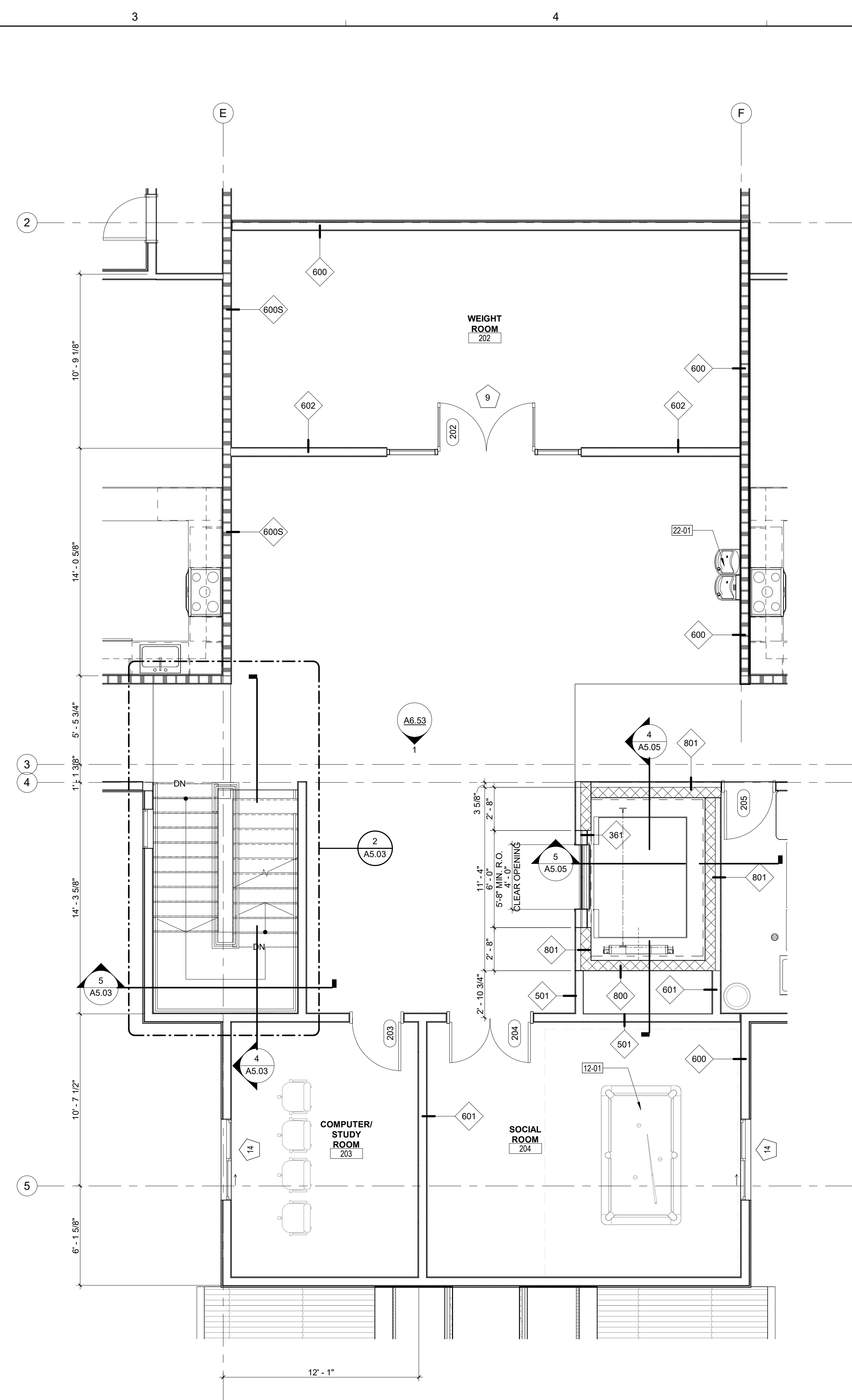
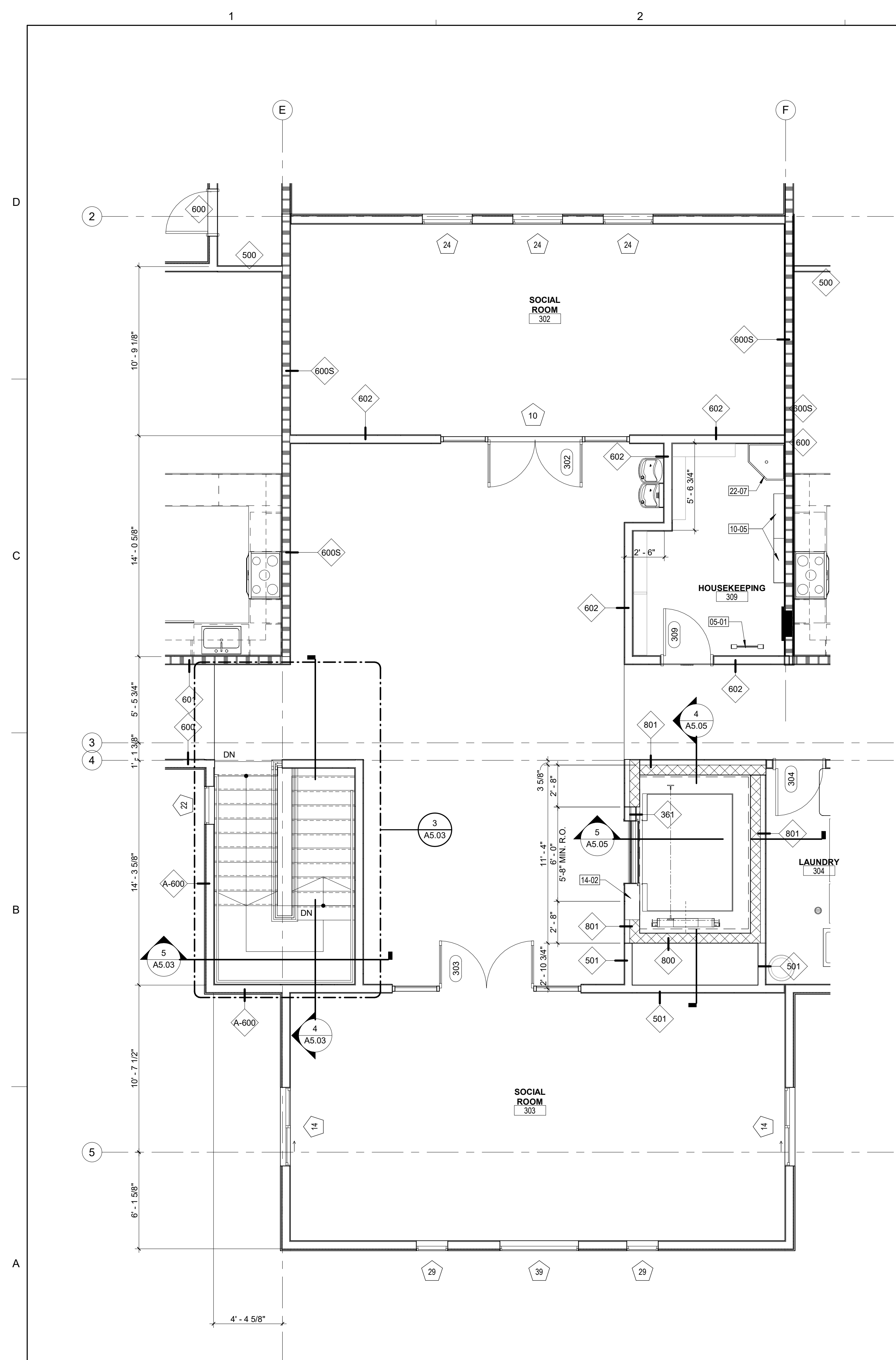
DRAWN BY: KME  
DATE: 2023-014  
JOB NO: 2023-014  
SCALE: AS INDICATED  
SHEET

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

**22 UNITS**

ENTIRE SHEET

**A2.20**



**FLOOR PLAN GENERAL NOTES**

1. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
2. WALL TYPES ATO BE FOUND ON SHEETS A8.00. CONTRACTOR SHALL NOTIFY ARCHITECT FOR ANY WALL TYPE CLARIFICATIONS.
3. ALL DOOR FRAMES AND FINISHED OPENINGS TO BE INSTALLED 4" AWAY FROM ADJACENT PERPENDICULAR WALL OR CENTERED IN WALL UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL PROVIDE AND SIZE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AUTHORITY HAVING JURISDICTION AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.
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**SYMBOLS LEGEND**

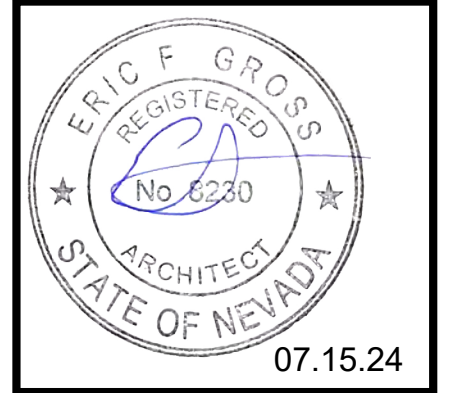
- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- X — WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXX — KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

**KEYNOTES**

- 05-01 ROOF ACCESS LADDER TO CATWALK
- 10-05 MOP RAIL, BROOM HOLDER
- 12-01 POOL TABLE, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
- 14-02 ELEVATOR CONTROLLER, COORDINATE WITH MANUFACTURER
- 22-01 DRINKING FOUNTAIN, PROVIDE MOUNTING BACKING AS REQUIRED. SEE PLUMBING DRAWINGS
- 22-07 MOP SINK. SEE PLUMBING DRAWINGS



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
ENLARGED PLANS - SECOND AND THIRD FLOOR

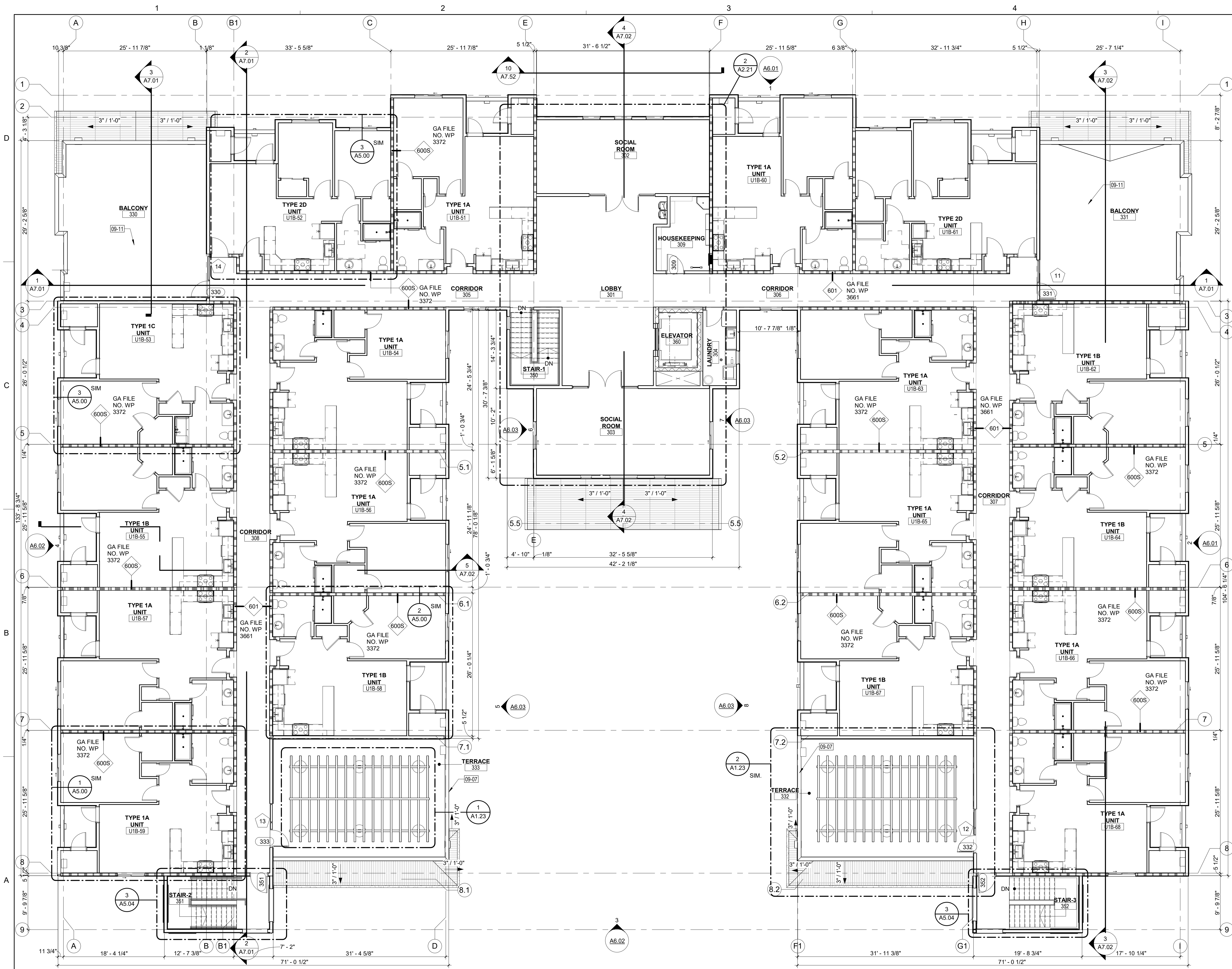
REVISIONS		
No.	Description	Date

DRAWN BY: KME  
DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**A2.21**

2 THIRD FLOOR - LOBBY  
SCALE: 1/4" = 1'-0"

1 SECOND FLOOR - LOBBY  
SCALE: 1/4" = 1'-0"



**FLOOR PLAN GENERAL NOTES**

- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
- WALL TYPES A70 TO BE FOUND ON SHEETS A8.00. CONTRACTOR SHALL NOTIFY ARCHITECT FOR ANY WALL TYPE CLARIFICATIONS.
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**SYMBOLS LEGEND**

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- X WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXX KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

**WALL RATING LEGEND**

- 1 HR FIRE RATED WALL ASSEMBLY

**TYPICAL UNITS SCHEDULE**

UNIT TYPE	TOTAL UNITS	COMMENTS
1A	32	TYPICAL 1 BEDROOM UNIT
1B	14	TYPICAL 1 BEDROOM UNIT
1C	3	TYPICAL 1 BEDROOM ACCESSIBLE
2D	8	TYPICAL 2 BEDROOM
2E	2	TYPICAL 2 BEDROOM ACCESSIBLE
	59	TOTAL UNITS ON ALL FLOORS

**KEYNOTES**

- 09-07 CEMENT PLASTER WALL CAP. PAINT
- 09-11 1" MINIMUM CONCRETE WITH A FIBER ADDITIVE, OVER A TAPERED FOAM WITH RIGID BACKING, OVER FLOOR TRUSS FRAMING. SEE STRUCTURAL.

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5195 S. Durango Drive  
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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave., Las Vegas, NV 89106

**SHEET TITLE:** OVERALL - THIRD FLOOR

**REVISIONS**

No.	Description	Date
1	CLV.COM.	6/21/24

DRAWN BY: KME  
DATE: 2023-014  
JOB NO: 2023-014  
SCALE: AS INDICATED  
SHEET

**1 OVERALL - THIRD FLOOR**  
SCALE: 1/8" = 1'-0"

**18 UNITS**



**A2.30**

1

2

3

4

5

D

C

B

A

FLOOR PLAN GENERAL NOTES

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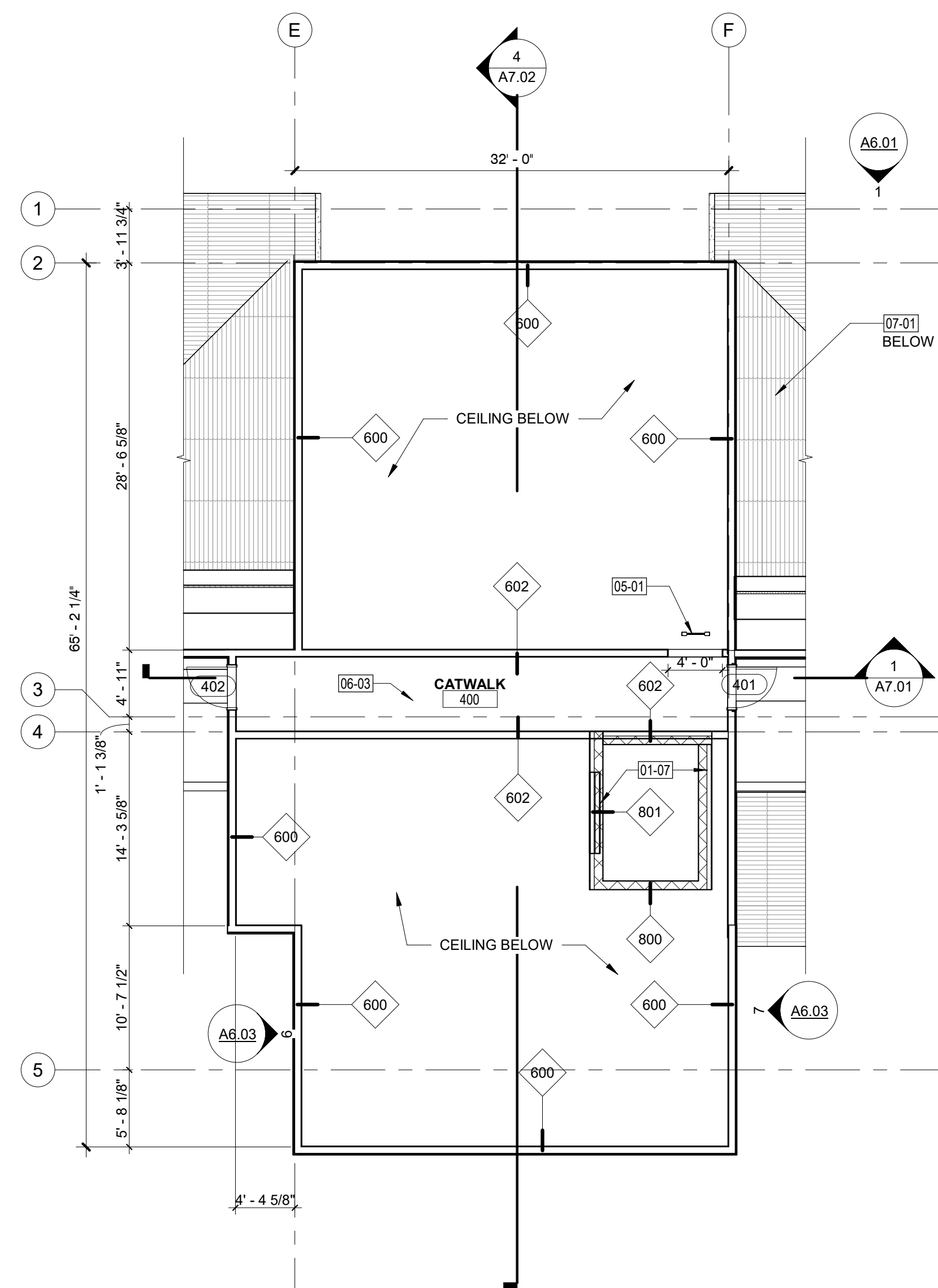
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SYMBOLS LEGEND

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- Wall Type Tag - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXXX KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

KEYNOTES

- 01-07 ELEVATOR ENCLOSURE. SEE WALL TYPES A9.00
- 05-01 ROOF ACCESS LADDER TO CATWALK
- 06-03 FLOOR SHEATHING OVER FLOOR TRUSS. SEE STRUCTURAL
- 07-01 ROOF TILE ROOFING SYSTEM. TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR. ROOF TRUSS. SEE STRUCTURAL



1 CATWALK FLOOR PLAN  
SCALE: 1/8" = 1'-0"

PROJECT:  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

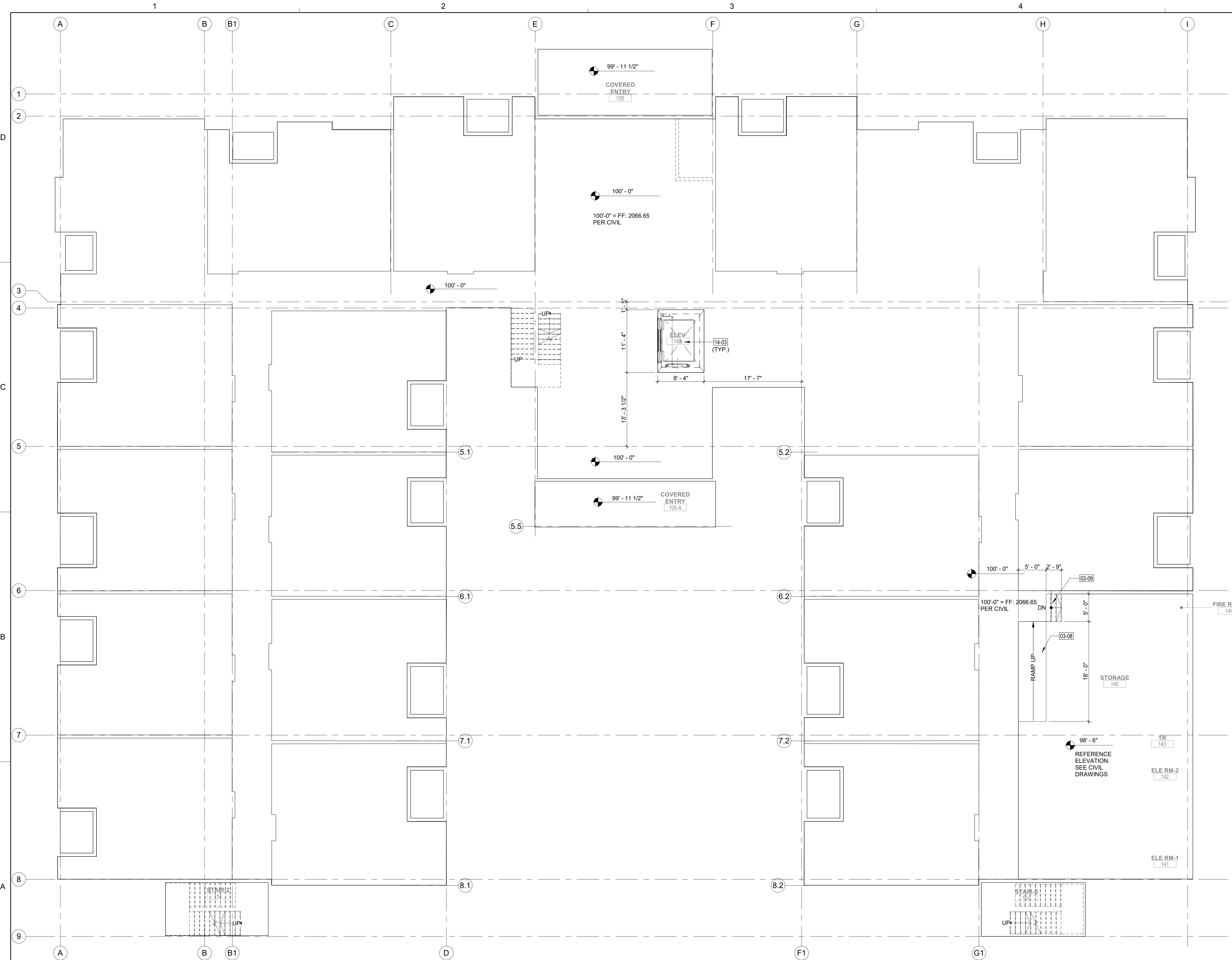
SHEET TITLE:  
CAT WALK FLOOR PLAN

REVISIONS		
No.	Description	Date

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
A2.40





**SLAB PLAN GENERAL NOTES**

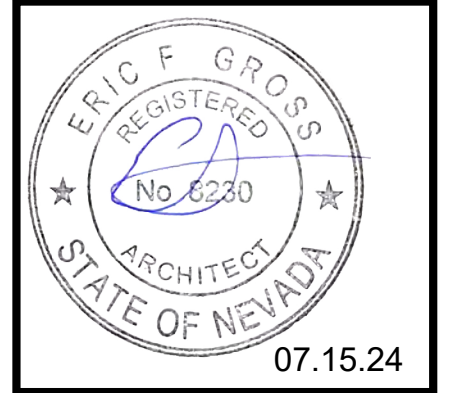
1. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
2. WALL TYPES TO BE FOUND ON SHEET A8.00. CONTRACTOR SHALL NOTIFY ARCHITECT FOR ANY WALL TYPE CLARIFICATIONS.
3. DEPRESSED SLAB VARIES PER FLOOR FINISH MATERIAL SPECIFIED. SEE INTERIOR DESIGN FLOOR FINISH SCHEDULE. ALL DIMENSIONS PROVIDED FOR DEPRESSED SLABS ARE TO FLOOR FINISH HEIGHTS.
4. PROVIDE VAPOR BARRIER / RETARDED PER GEO TECHNICAL REPORT.
5. ALL SLOPED CONCRETE TO MEET ADA REQUIREMENTS.
6. ALL ELEVATIONS SHOWN ON FIRST FLOOR ARE TOP OF CONCRETE SLAB. ALL ELEVATIONS SHOWN FROM SECOND FLOOR TO THIRD FLOOR ARE TOP OF FLOOR SHEATHING. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION AND DETAILS.

**KEYNOTES**

- 03-08 NEW CONCRETE RAMP. SEE DETAIL.
- 03-09 NEW CONCRETE STAIR.
- 14-03 ELEVATOR SHAFT OPENING, SEE MANUFACTURER'S SPECIFICATION.



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 Suite #103  
 Las Vegas, NV 89113  
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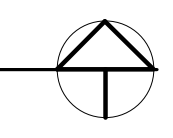
**SHEET TITLE:**  
 SLAB PLAN - FIRST FLOOR

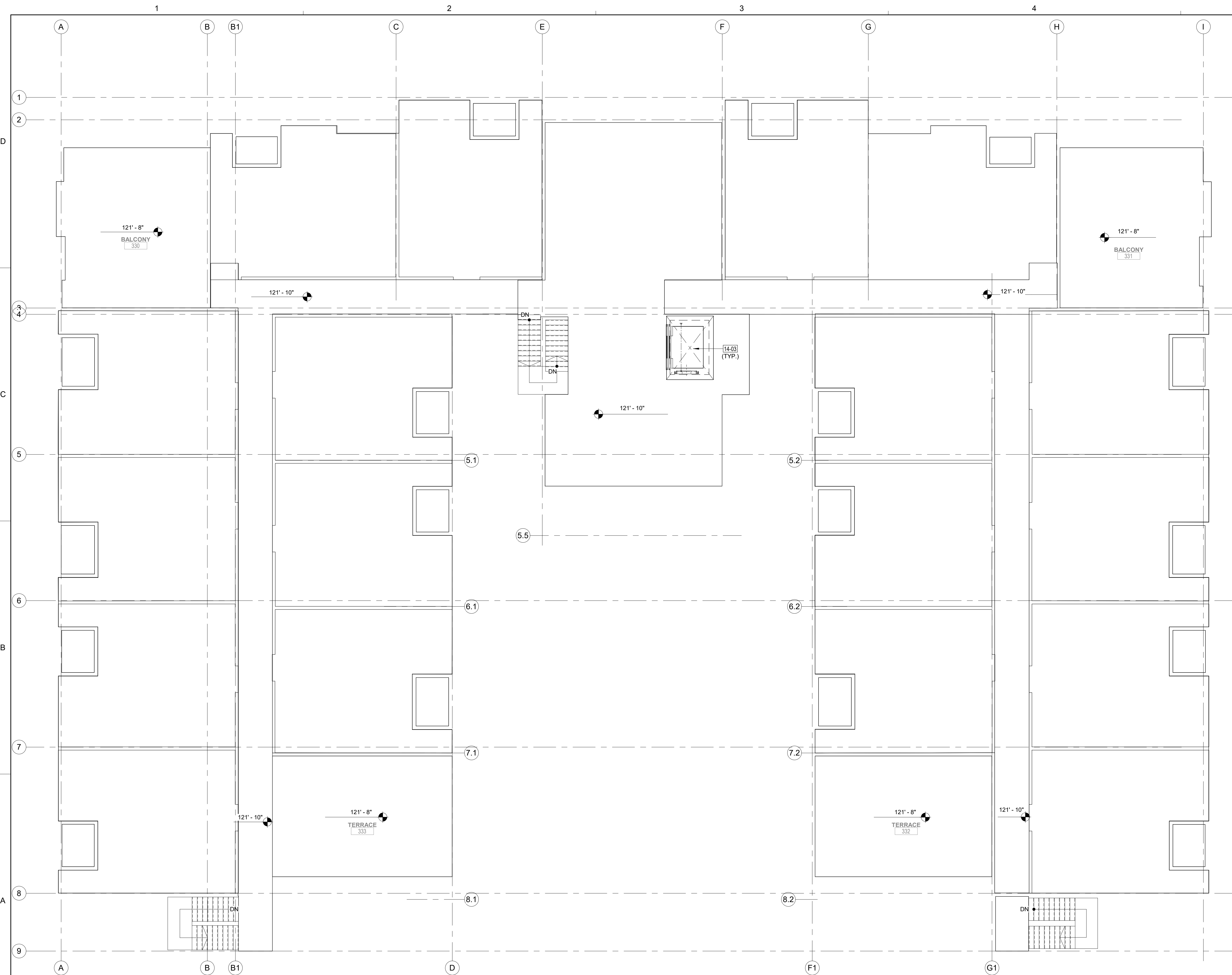
REVISIONS		
No.	Description	Date

DRAWN BY: KME  
 DATE:  
 JOB NO: 2023-014  
 SCALE: AS INDICATED ON EACH SCALE DRAWING

SHEET  
**A2.50**

**1 SLAB PLAN - FIRST FLOOR**  
 SCALE: 1/8" = 1'-0"





**SLAB PLAN GENERAL NOTES**

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**KEYNOTES**

14-03 ELEVATOR SHAFT OPENING. SEE MANUFACTURER'S SPECIFICATION



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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave. Las Vegas, NV 89106

**SHEET TITLE:**  
SLAB PLAN - THIRD FLOOR

**REVISIONS**

No.	Description	Date

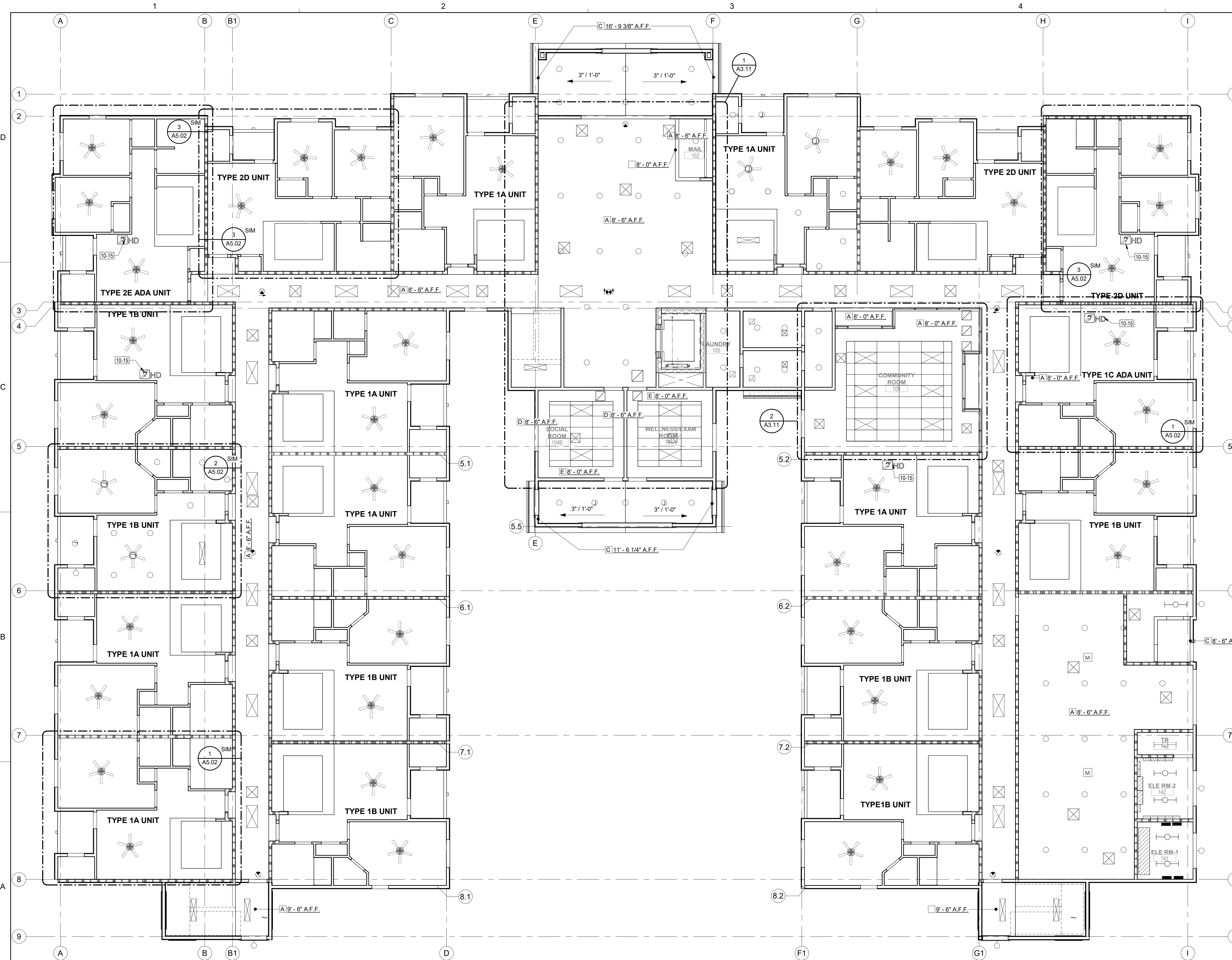
DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET

A2.51

**1** SLAB PLAN - THIRD FLOOR  
SCALE: 1/8" = 1'-0"





**REFLECTED CEILING PLAN GENERAL NOTES**

- REVIEW ALL DRAWINGS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF DIMENSIONAL INCONSISTENCIES, CONTRADICTIONS, OR OMISSIONS ARE DISCOVERED.
- CONTRACTOR TO USE HEAVY DUTY CEILING GRID, UNLESS NOTED OTHERWISE.
- ALL GYPSUM WALL BOARD WITHIN RESTROOMS, BATHROOMS, KITCHENS, OR JANITOR'S CLOSETS CEILINGS TO BE 5/8" MOLD TOUGH SHEETROCK PANELS OR EQUAL UNLESS NOTED OTHERWISE.
- ALL CEILING ELEMENTS (TRIM RINGS, MECHANICAL DIFFUSERS, SMOKE INTAKE GRILLES, ETC.) WITHIN PAINTED CEILINGS TO BE PAINTED TO MATCH CEILING, UNLESS NOTED OTHERWISE.
- ALL GYPSUM WALLBOARD AND/OR SUBSTRATE PARTITIONS TO HAVE FINISH MATERIAL EXTEND MINIMUM 6" ABOVE LAY-IN GRID CEILINGS, AND FLUSH WITH GYPSUM WALLBOARD AND/OR SUBSTRATE CEILINGS, UNLESS NOTED OTHERWISE.
- ALL SOUND ATTENUATION AND/OR INSULATED WALLS TO HAVE STUDS, INSULATION, GYPSUM WALLBOARD AND/OR BACKING MATERIAL EXTEND TO STRUCTURE ABOVE. CONTRACTOR TO SEAL ALL PENETRATIONS AND TOP OF WALL WITH ACOUSTICAL SEALANT RATED TO MATCH FIRE RATING OF WALL.
- ALL PARTITION BRACING TO BE CONCEALED WITHIN CEILING PLENUM SPACE. CONTRACTOR TO ENSURE THAT BRACING TO BE PLACED WITHOUT DISTURBANCE TO ALL OTHER BUILDING SYSTEMS (I.E. FIRE SUPPRESSION, STRUCTURAL, MECHANICAL, ETC.)
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- THE CONTRACTOR SHALL PROVIDE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.

**SYMBOLS LEGEND**

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- XX WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XXXX WINDOW TYPES - SEE SHEET A9.10
- XXX KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

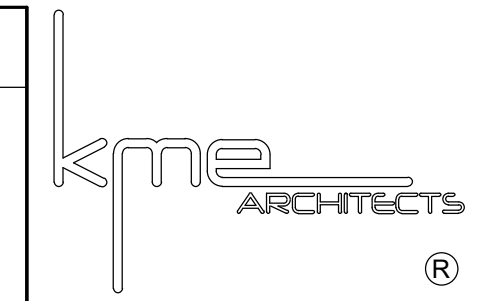
**REFLECTED CEILING PLAN LEGEND**

- A HEIGHT A.F.F. - 5/8" GYPSUM BOARD ON METAL STUDS PAINTED PER FINISH TAG
- B HEIGHT A.F.F. - WASHABLE 5/8" GYPSUM BOARD METAL STUDS PAINTED PER FINISH TAG
- C HEIGHT A.F.F. - STUCCO CEILING, PAINT PER FINISH TAG
- D HEIGHT A.F.F. - 2X4 VINYL CEILING TILES - SMOOTH SURFACE, SEE ROOM FINISH SCHEDULE
- E HEIGHT A.F.F. - GYPSUM WALL BOARD ON METAL STUDS SOFFIT, PAINTED PER FINISH TAG
- F HEIGHT A.F.F. - ALL CEILING, INSULATION AND EXPOSED ROOF FRAMING TO BE PAINTED PT-4. ALL NEW HVAC, CONDUIT, ELECTRICAL COMPONENTS, ETC. TO BE PAINTED PT-4. NEW LIGHT FIXTURES AND REGISTERS TO REMAIN WITH FACTORY FINISH.

- FLUORESCENT LIGHT FIXTURE
- LIGHT FIXTURE
- PENDANT LIGHTING - DL-1
- ⊙ SMOKE DETECTOR
- SP SPEAKER
- EXIT LIGHT
- ⊠ HVAC SUPPLY DIFFUSER
- ⊡ HVAC RETURN DIFFUSER
- ⊛ CEILING FAN
- HD HEARING IMPAIRED DEVICE LOCATION

**KEYNOTES**

- 10-15 HEARING IMPAIRED DEVICES LOCATION, GC TO PROVIDE MOUNTING SYSTEM, AT WALL OR CEILING, ELECTRICAL SHALL PROVIDE A LOW VOLTAGE POWER SUPPLY AND DATA REQUIRED.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
OVERALL REFLECTED CEILING PLAN - FIRST FLOOR

REVISIONS		
No.	Description	Date

DRAWN BY: KME  
DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**A3.10**

**1 OVERALL REFLECTED CEILING PLAN - FIRST FLOOR**  
SCALE: 1/8" = 1'-0"

1

2

3

4

5

D

C

B

A

REFLECTED CEILING PLAN GENERAL NOTES

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SYMBOLS LEGEND

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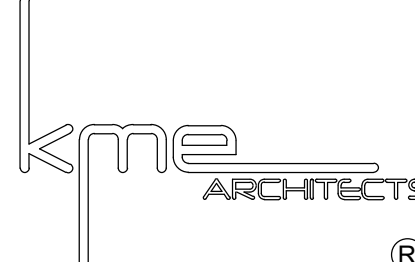
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- FLUORESCENT LIGHT FIXTURE
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- ⊙ SMOKE DETECTOR
- SP SPEAKER
- ⊙ EXIT LIGHT
- ⊗ HVAC SUPPLY DIFFUSER
- ⊘ HVAC RETURN DIFFUSER
- ⊙ CEILING FAN
- HD HEARING IMPAIRED DEVICE LOCATION

KEYNOTES

- 26-02 RECESSED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 26-04 SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 26-07 CEILING SURFACE MOUNTED EXIT SIGN, SEE ELECTRICAL



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PROJECT: **SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

SHEET TITLE: **ENLARGED REFLECTED CEILING PLANS - FIRST FLOOR**

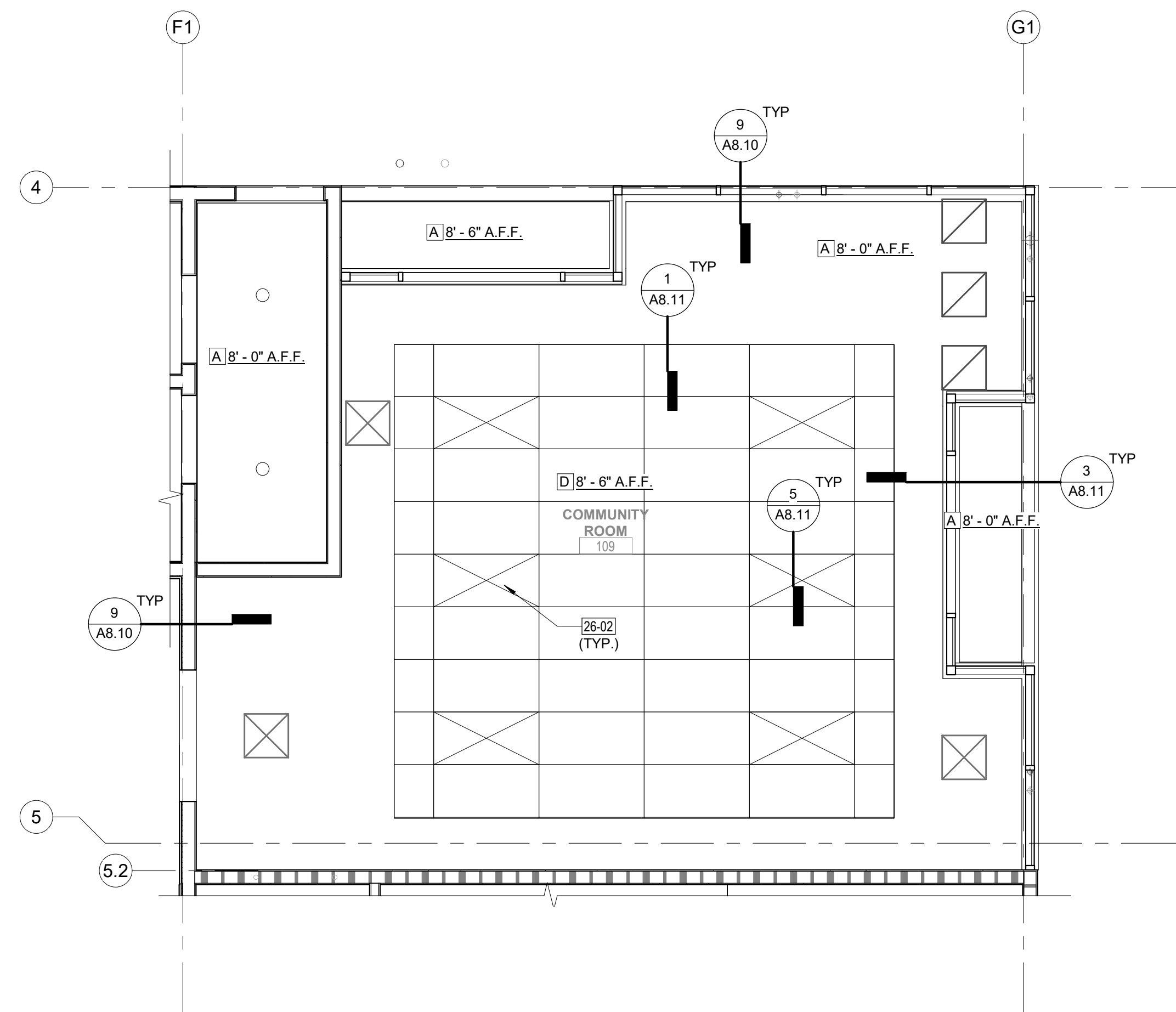
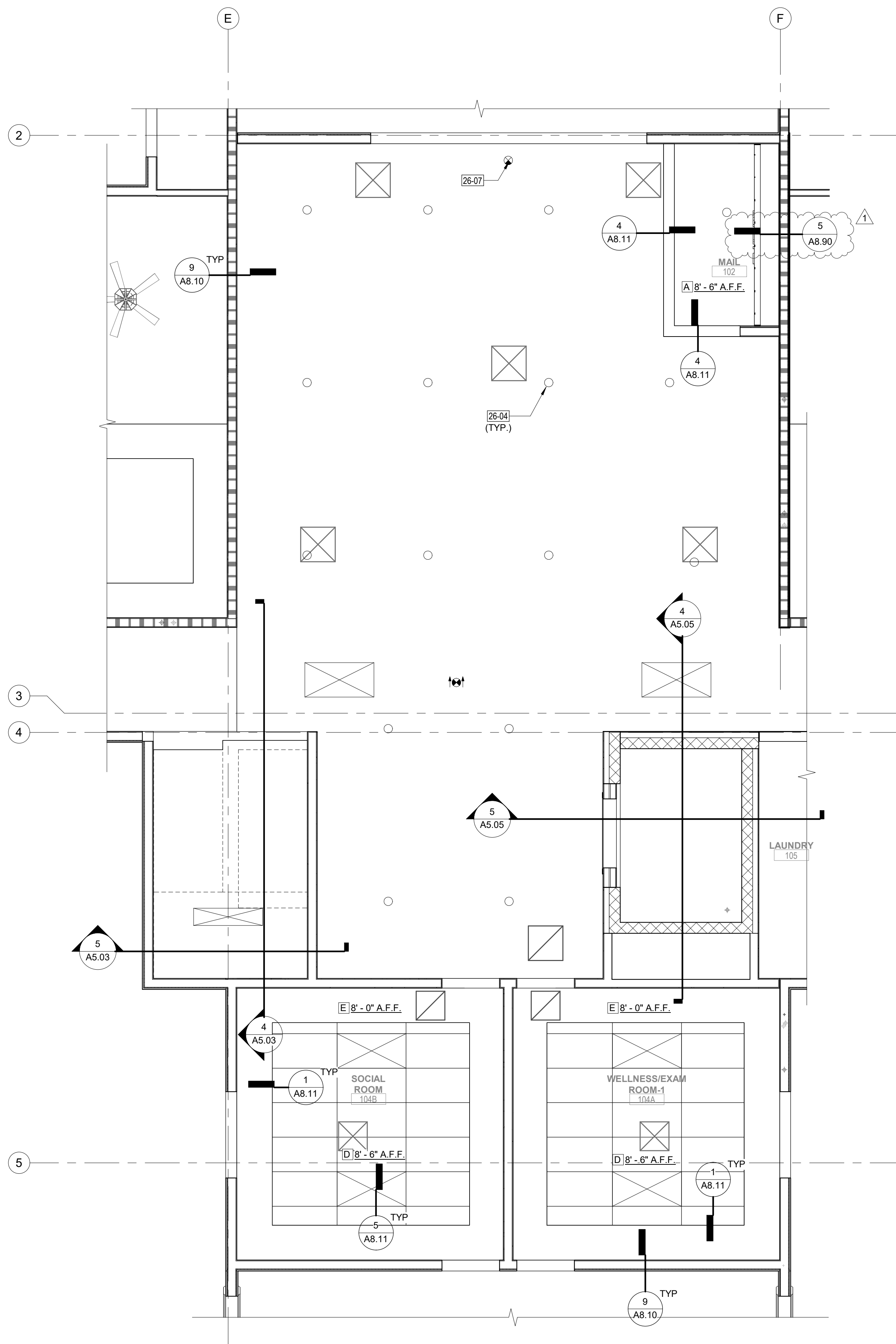
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No.	Description	Date
1	CLV COM.	6/21/24

No.	Description	Date
1	CLV COM.	6/21/24

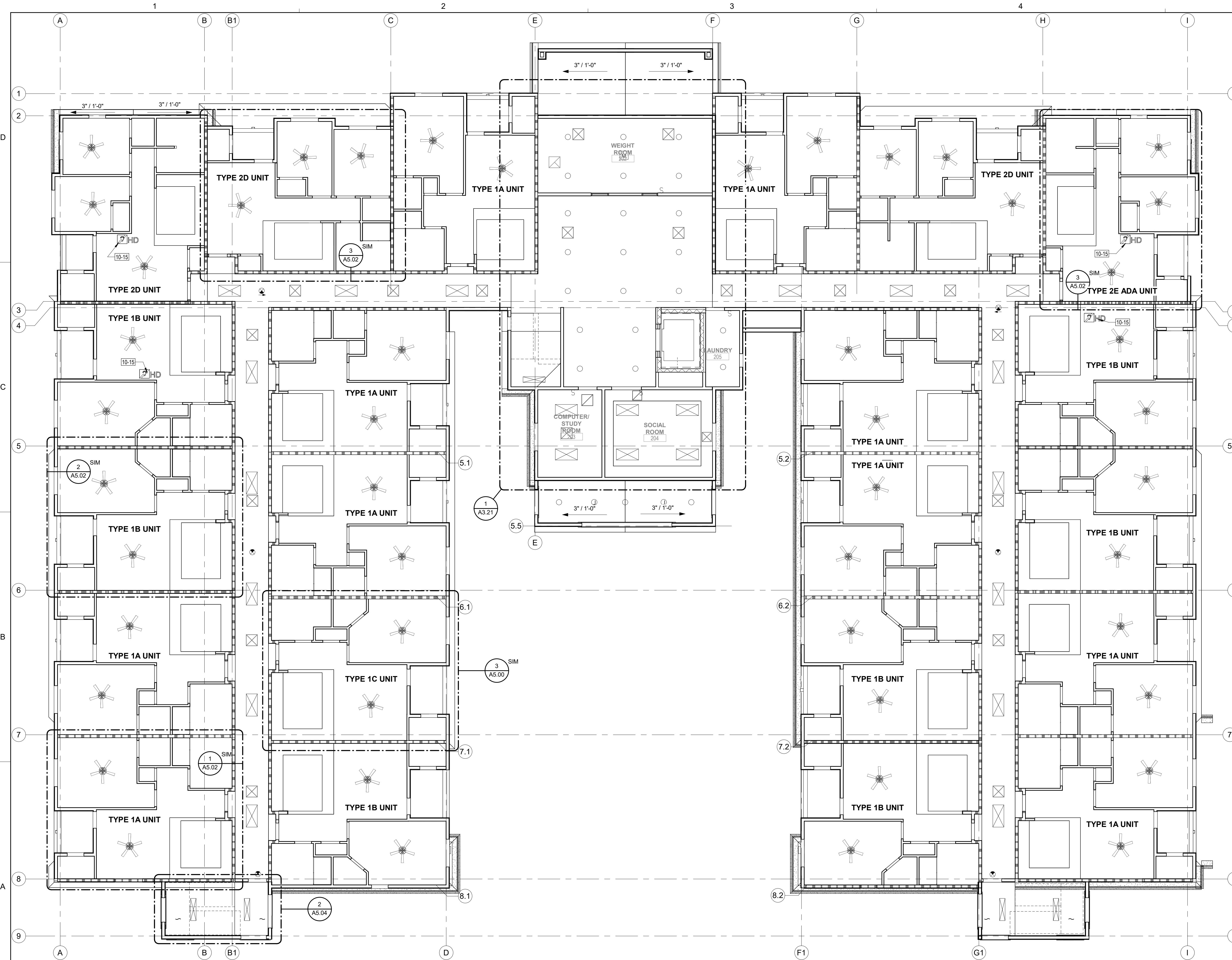
DRAWN BY: KME  
DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET A3.11



2 ENLARGED REFLECTED CEILING PLAN - COMMUNITY ROOM  
SCALE: 1/4" = 1'-0"

1 ENLARGED REFLECTED CEILING PLAN - LOBBY  
SCALE: 1/4" = 1'-0"



**REFLECTED CEILING PLAN GENERAL NOTES**

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**KEYNOTES**

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**KME ARCHITECTS**  
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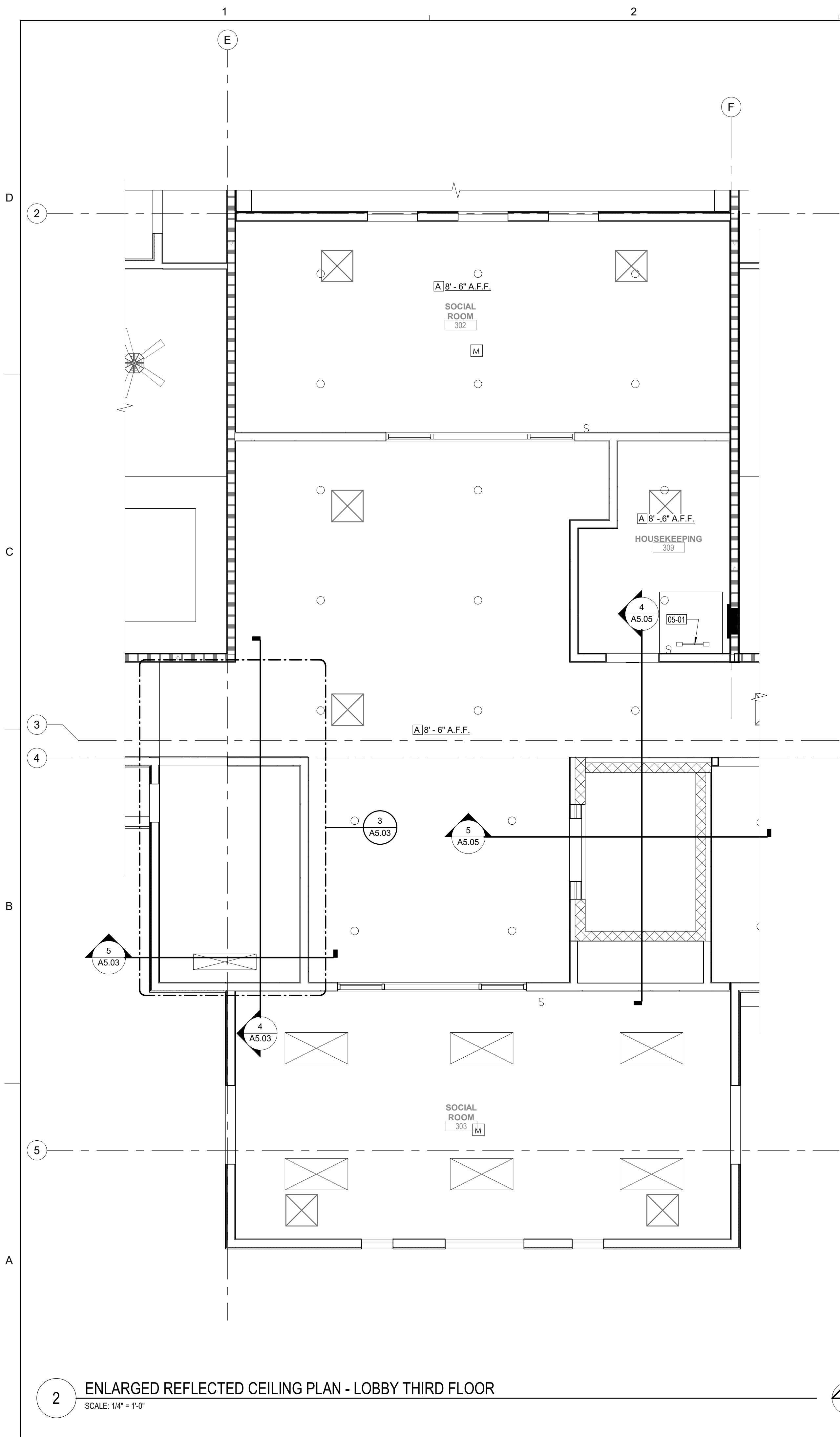
**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave., Las Vegas, NV 89106

**SHEET TITLE:**  
 OVERALL REFLECTED CEILING PLAN - SECOND FLOOR

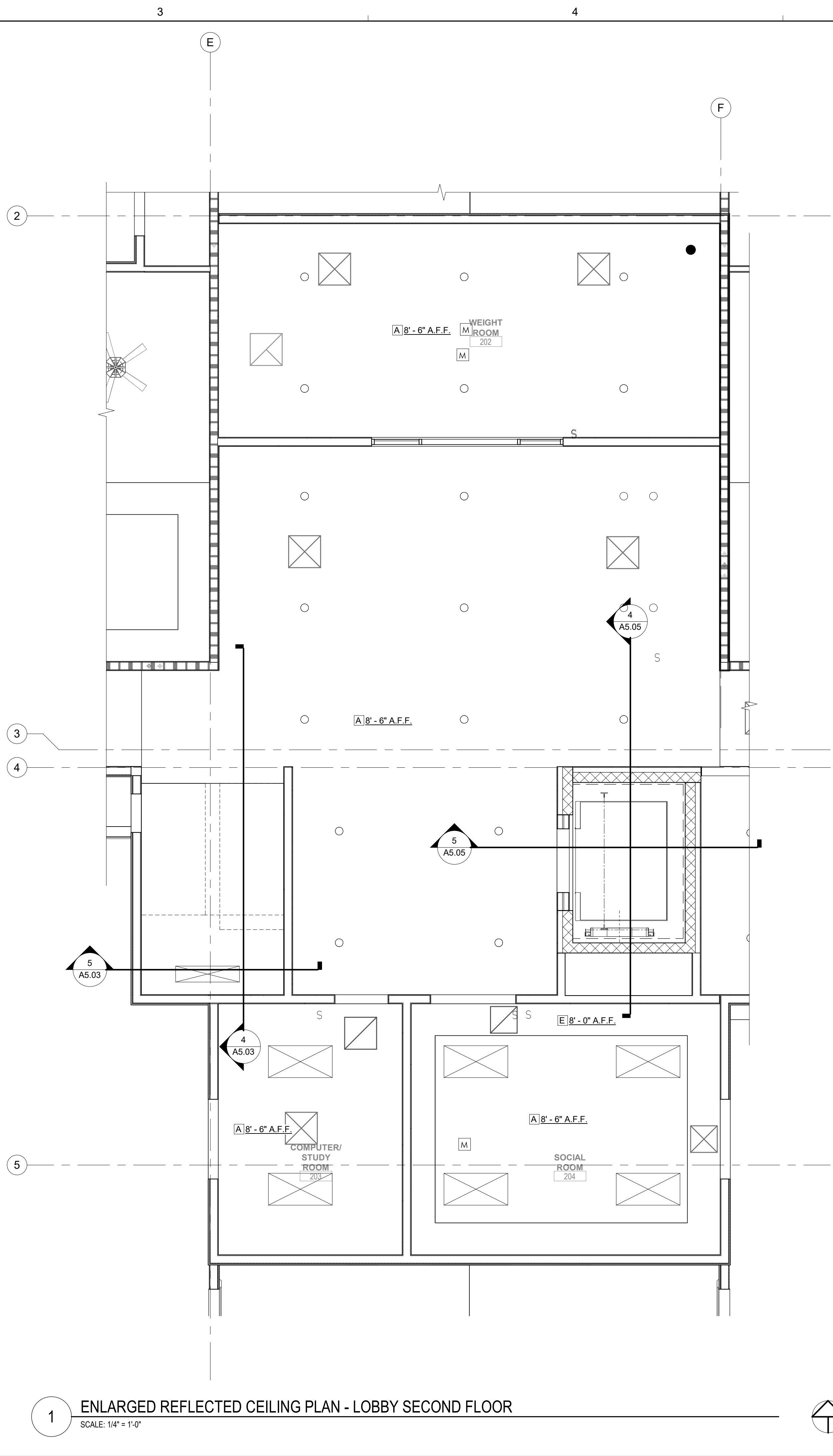
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SHEET  
**A3.20**



2 ENLARGED REFLECTED CEILING PLAN - LOBBY THIRD FLOOR  
SCALE: 1/4" = 1'-0"



1 ENLARGED REFLECTED CEILING PLAN - LOBBY SECOND FLOOR  
SCALE: 1/4" = 1'-0"

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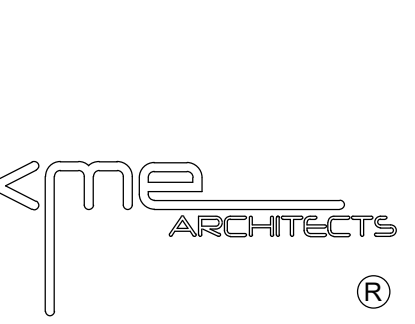
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**KEYNOTES**

05-01 ROOF ACCESS LADDER TO CATWALK



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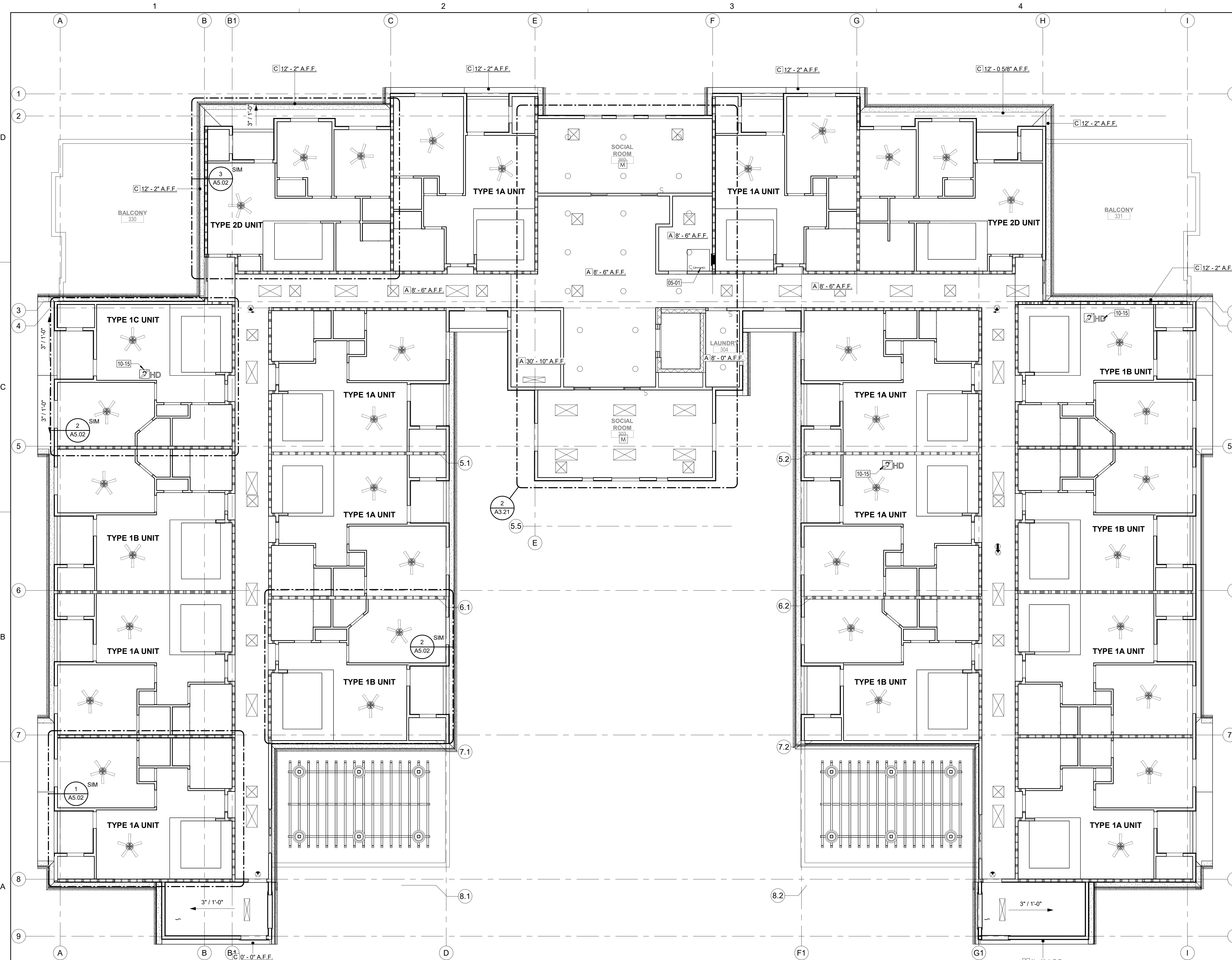
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ENLARGED REFLECTED CEILING PLANS - SECOND FLOOR

REVISIONS		
No.	Description	Date

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- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

**REFLECTED CEILING PLAN LEGEND**

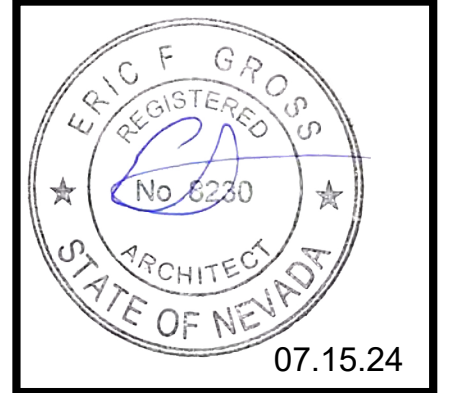
- A HEIGHT A.F.F. - 5/8" GYPSUM BOARD ON METAL STUDS PAINTED PER FINISH TAG
- B HEIGHT A.F.F. - WASHABLE 5/8" GYPSUM BOARD METAL STUDS PAINTED PER FINISH TAG
- C HEIGHT A.F.F. - STUCCO CEILING, PAINT PER FINISH TAG
- D HEIGHT A.F.F. - 2X4 VINYL CEILING TILES - SMOOTH SURFACE, SEE ROOM FINISH SCHEDULE
- E HEIGHT A.F.F. - GYPSUM WALL BOARD ON METAL STUDS SOFFIT, PAINTED PER FINISH TAG
- F HEIGHT A.F.F. - ALL CEILING, INSULATION AND EXPOSED ROOF FRAMING TO BE PAINTED PT-4. ALL NEW HVAC, CONDUIT, ELECTRICAL COMPONENTS, ETC. TO BE PAINTED PT-4. NEW LIGHT FIXTURES AND REGISTERS TO REMAIN WITH FACTORY FINISH.

- FLUORESCENT LIGHT FIXTURE
- LIGHT FIXTURE
- PENDANT LIGHTING - DL-1
- ⊙ SMOKE DETECTOR
- SP SPEAKER
- ⊙ EXIT LIGHT
- ⊠ HVAC SUPPLY DIFFUSER
- ⊠ HVAC RETURN DIFFUSER
- ⊙ CEILING FAN
- ⊙ HD HEARING IMPAIRED DEVICE LOCATION

**KEYNOTES**

- 05-01 ROOF ACCESS LADDER TO CATWALK
- 10-15 HEARING IMPAIRED DEVICES LOCATION, GC TO PROVIDE MOUNTING SYSTEM. AT WALL OR CEILING, ELECTRICAL SHALL PROVIDE A LOW VOLTAGE POWER SUPPLY AND DATA REQUIRED.

**KME ARCHITECTS**  
 5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
 Fax: 702.888.2089  
 Web: www.kmearchitects.com  
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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave., Las Vegas, NV 89106

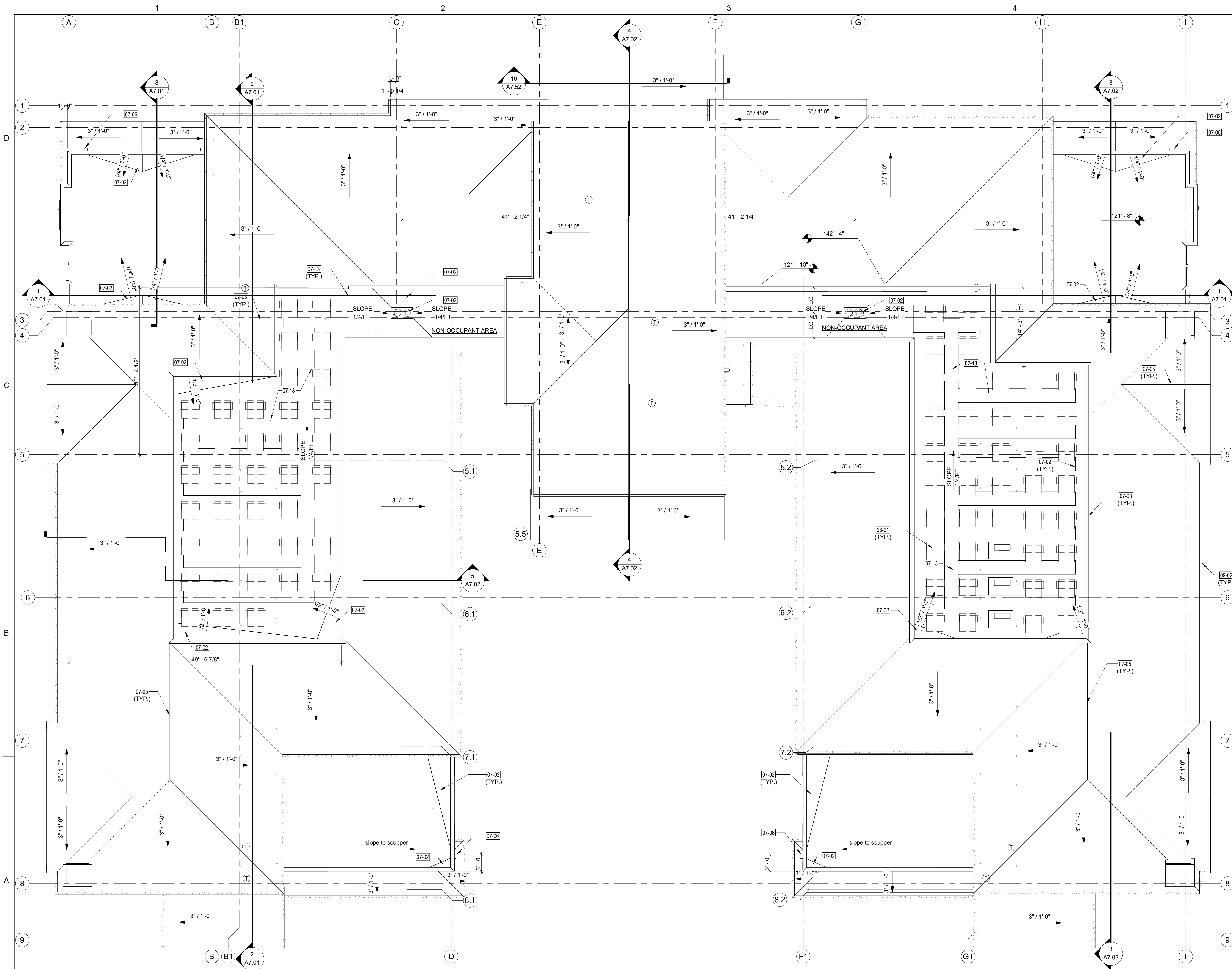
**SHEET TITLE:**  
 OVERALL REFLECTED CEILING PLAN - THIRD FLOOR

No.	Description	Date
TO BE	COORDINA	TBD
TE		

**DRAWN BY:** KME  
**DATE:**  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED  
2024 SCALE DRAWING

**SHEET**  
 A3.30


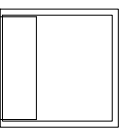


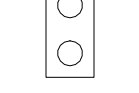
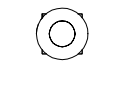
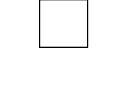
**1 OVERALL REFLECTED CEILING PLAN - THIRD FLOOR**  
 SCALE: 1/8" = 1'-0"



**ROOF PLAN GENERAL NOTES**

1. ALL ELEVATIONS ARE TO TOP OF STRUCTURAL MEMBERS. SEE STRUCTURAL DRAWINGS. ROOF SLOPES TO BE ACHIEVED USING TAPERED SOLID FOAM ON TOP OF INSULATED FOAM, UNLESS NOTED OTHERWISE. SLOPES TO BE MINIMUM 1/4" PER 1' - 0" UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO FULLY INSULATE ALL ROOF CRICKETS WITH FIRE RATED SOLID FOAM OR FIRE SPRINKLER ANY CRICKETS EXCEEDING 1' - 0" IN HEIGHT. CONTRACTOR MAY SUBSTITUTE FIRE SUPPRESSION SYSTEMS WITHIN CRICKETS BY UTILIZING FIRE RATED SOLID FOAM THROUGHOUT CRICKET CAVITY.
3. ALL ROOFING MATERIALS TO HAVE MINIMUM 20 YEAR WARRANTY, UNLESS NOTED OTHERWISE.
4. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ROOF AND OVERFLOW DRAIN SPECIFICATIONS, SIZING, AND INSTALLATION.
5. ALL ROOF SYSTEMS TO MEET I.E.C.C. REPORT FOR MINIMUM INSULATION R-VALUES. PROVIDE MINIMUM R-30 INSULATION WITHIN ROOFING CAVITY AND AT THE BOTTOM OF ROOF SHEATHING.
6. CONTRACTOR TO FULLY SECURE ALL MECHANICAL EQUIPMENT, UTILITY CONNECTIONS AND REQUIRED CURBING TO ROOF TO MEET FULL WIND LOADS PER CODE REQUIREMENTS AND TO UTILIZE PREFABRICATED CONCRETE CURBS ON TOP OF SLIP SHEETS PER MFR. REQUIREMENTS.
7. CONTRACTOR TO ENSURE POSITIVE ROOF DRAINAGE AT ALL LOCATIONS OF THE ROOF TO THE ROOF AND OVERFLOW DRAINS.

**ROOF LEGEND**

-  TAPERED INSULATION CRICKET
-  ROOF HATCH AND LADDER WITH SELF FLASHING INSULATED CURB AND INTEGRAL GUARDRAIL
-  WALK PAD
-  MECHANICAL UNIT SCREEN WALL
-  ROOF DRAIN AND OVERFLOW
-  ROOF EXHAUST FAN. SEE MECHANICAL
-  ROOF CONDENSING UNIT. SEE MECHANICAL

**KEYNOTES**

- 07-02 ROOF CRICKETS
- 07-03 METAL PARAPET COPING, PAINTED, COLOR TO MATCH EXTERIOR METAL FINISH
- 07-05 ROOF RIDGE CAP OVER CONT 2X NAILER TO MATCH ROOF TILE STYLE AND COLOR
- 07-06 WALL SCUPPER, PAINT
- 07-13 THERMOPLASTIC PVC WALKPAD
- 09-02 CEMENT PLASTER OVER PREMOULDED EAVES PROFILE, PAINT.
- 23-01 MECHANICAL UNIT. SEE MECHANICAL DRAWINGS

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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REGISTERED ARCHITECT  
STATE OF NEVADA  
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**PROJECT:**

**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**

**OVERALL ROOF PLAN**

**REVISIONS**

No.	Description	Date

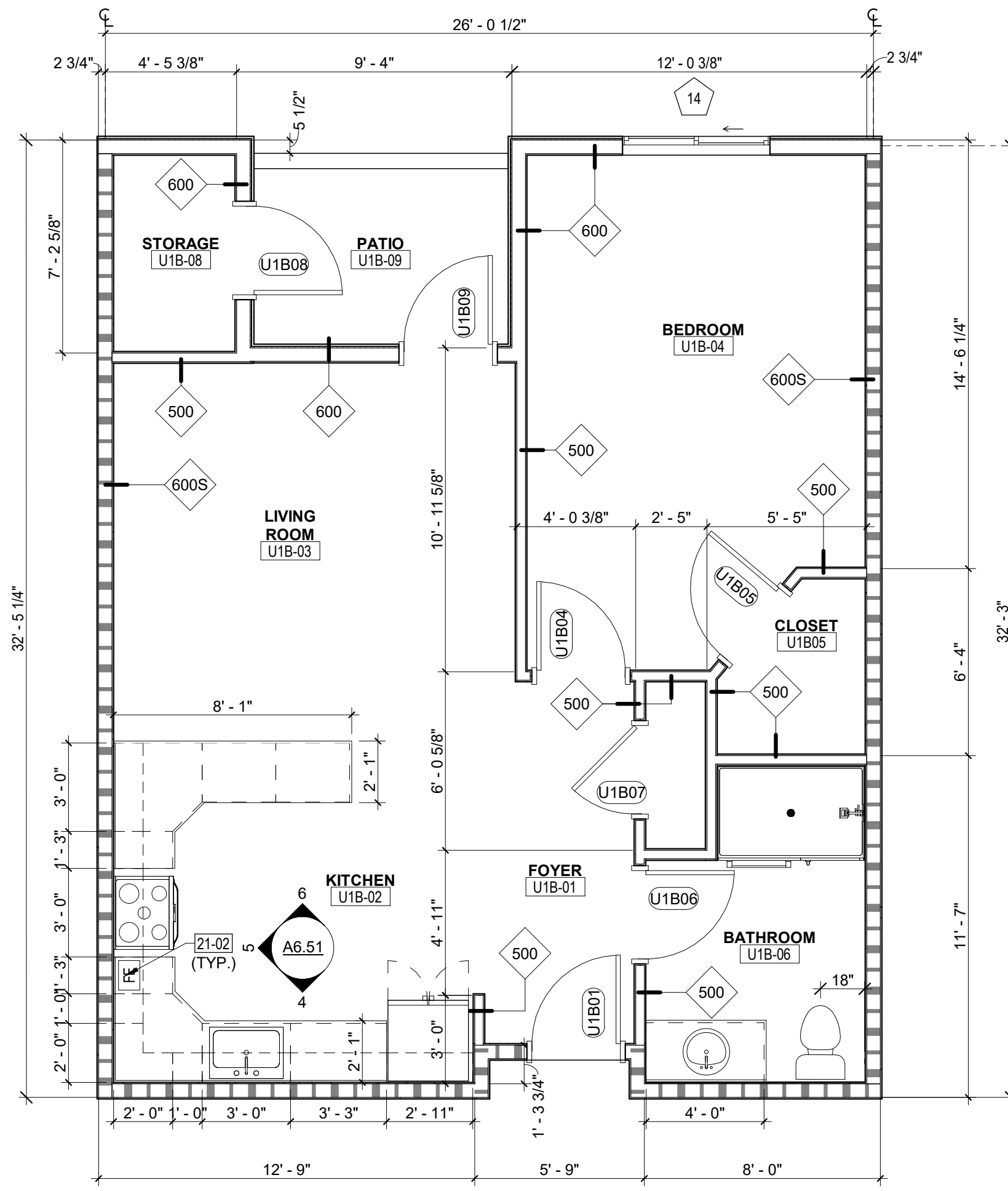
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DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET

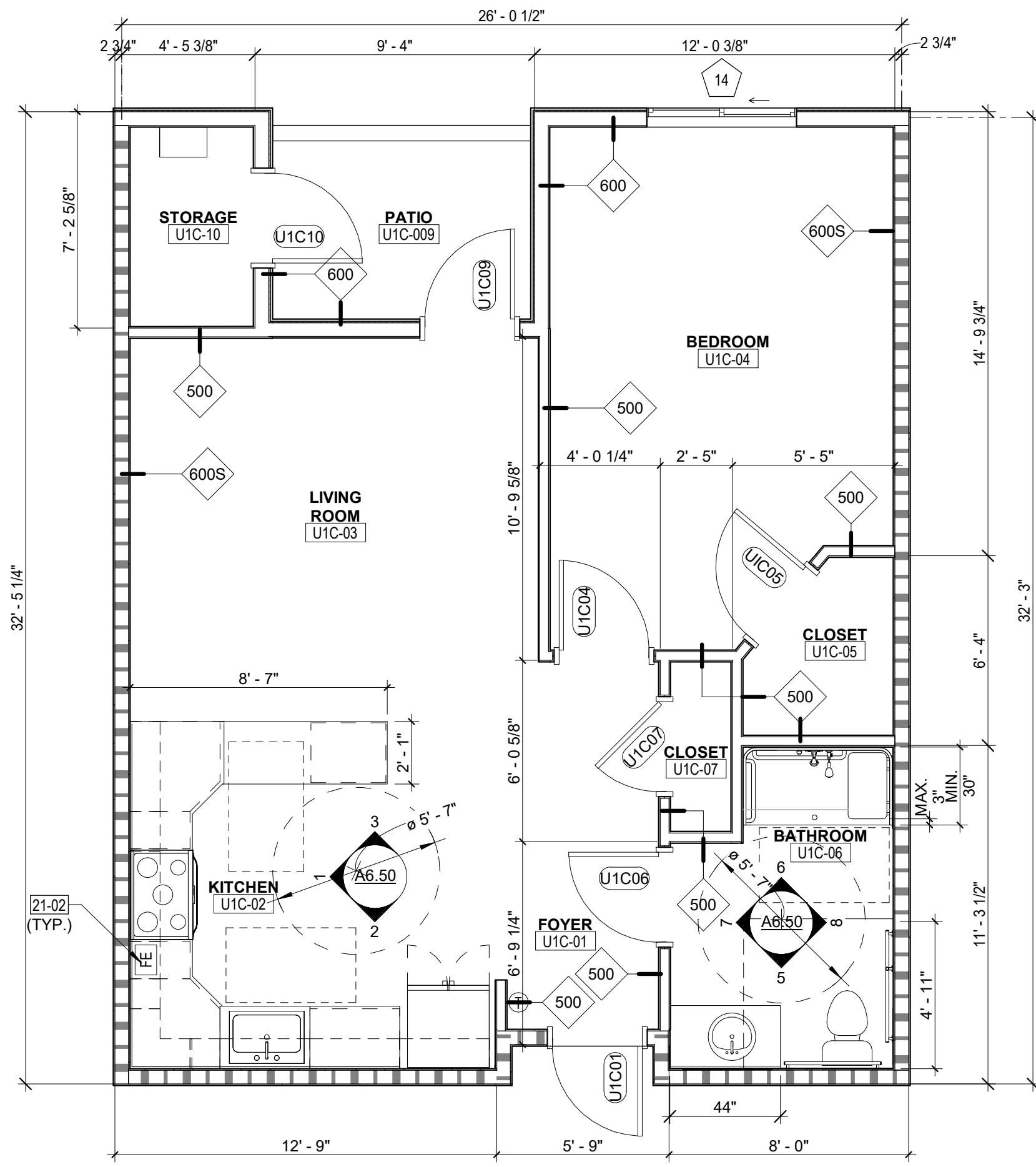
**A4.00**

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





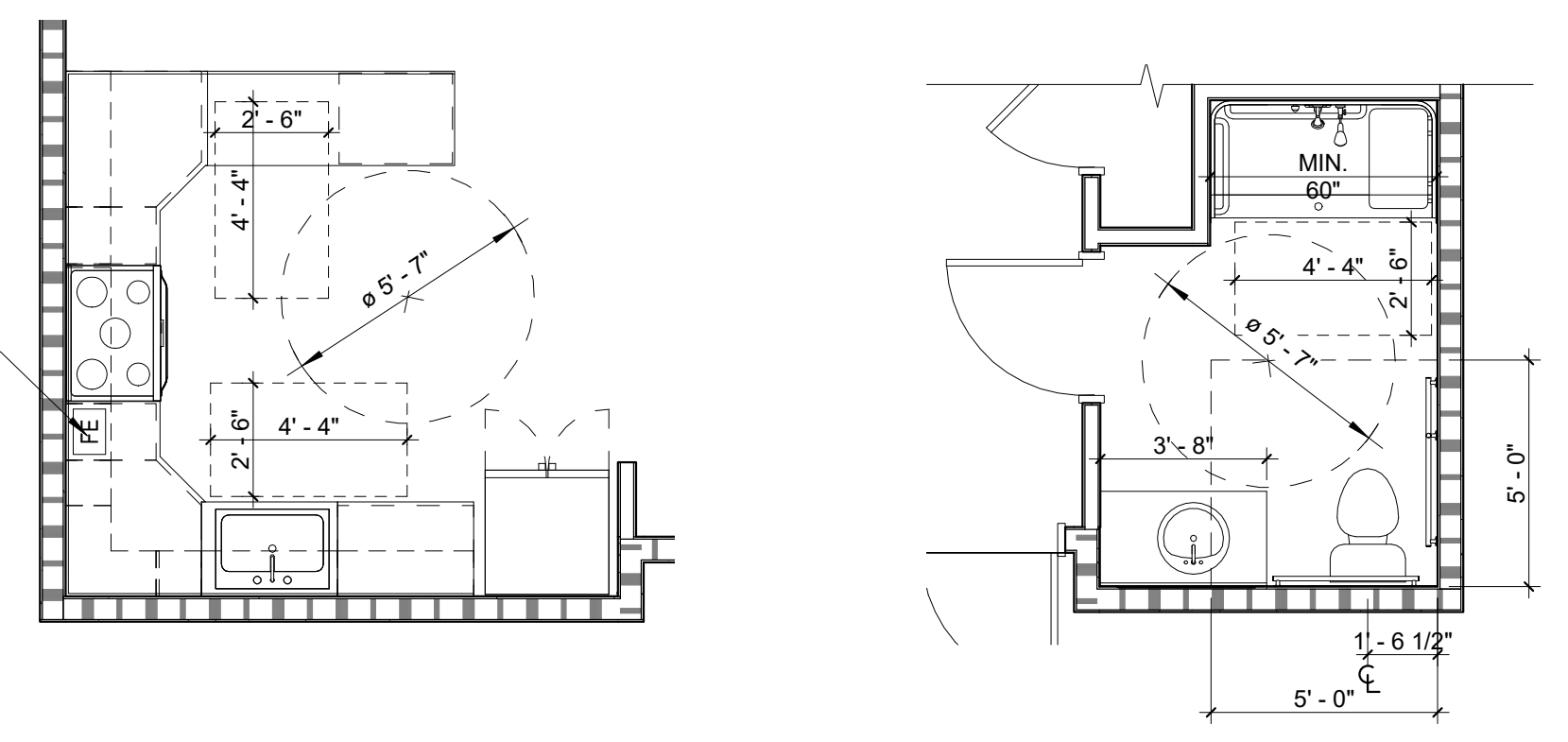
**2 TYPICAL 1-BEDROOM UNIT 1B TYPE B**  
SCALE: 1/4" = 1'-0"



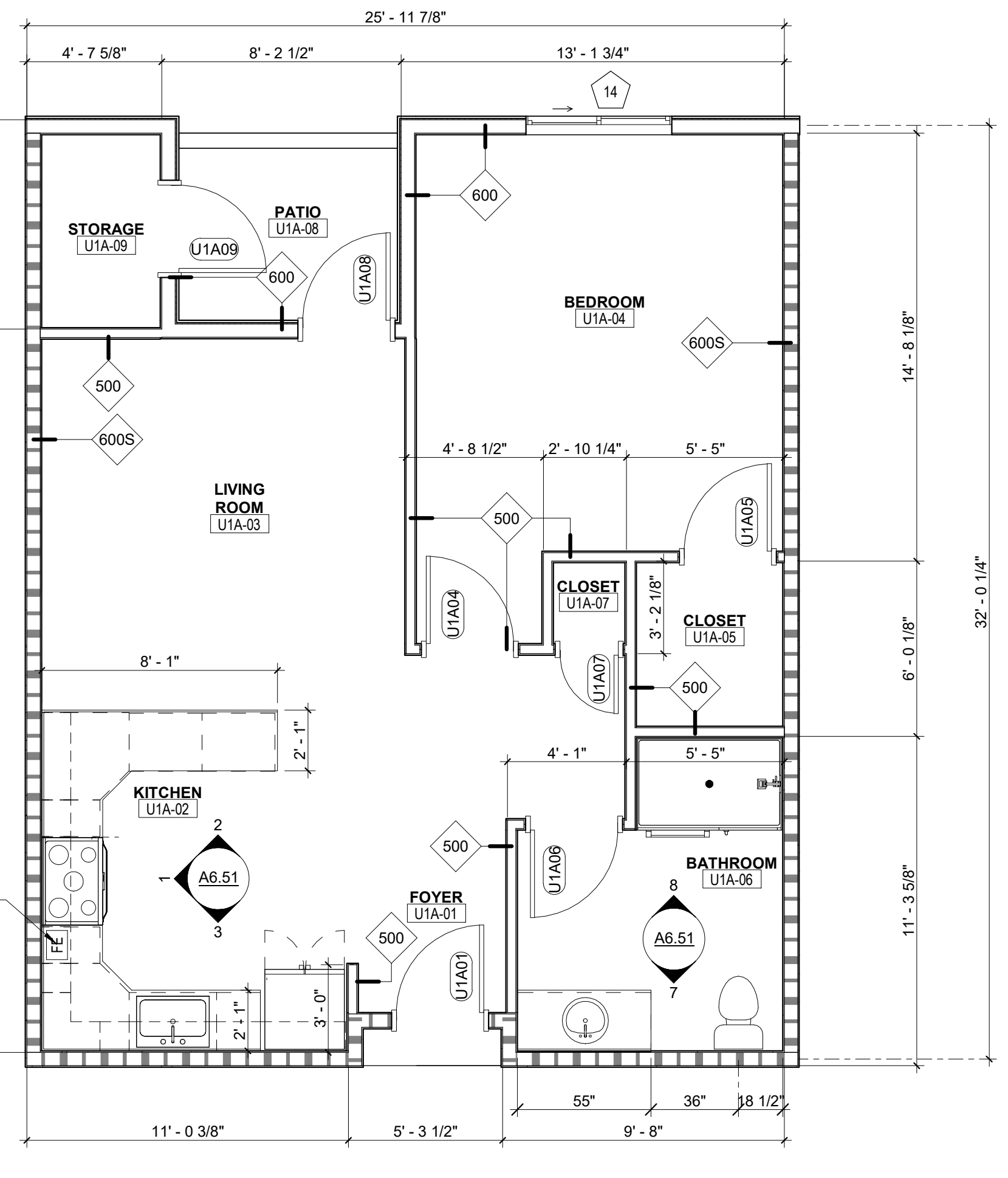
**3 TYPICAL 1-BEDROOM UNIT 1C TYPE A ACCESSIBLE UNIT**  
SCALE: 1/4" = 1'-0"

**TYPICAL UNIT ROOM FINISH SCHEDULE**

ROOM NO.	ROOM NAME	FLOOR				WALL		CEILING	NOTES
		FINISH	BASE	FINISH	ACCENT	FINISH	FINISH		
U1A-01	FOYER	LVT-1	RB-1	PT-1	PT-1	PT-1			
U1A-02	KITCHEN	LVT-1	RB-1	PT-1	PT-1	PT-1		WASHABLE	
U1A-03	LIVING ROOM	LVT-1	RB-1	PT-1	PT-1	PT-1			
U1A-04	BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1			
U1A-05	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1			
U1A-06	BATHROOM	T-3	T-4	PT-1	PT-1	PT-1		WATERPROOF	
U1A-07	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1			
U1A-08	PATIO	SC-1	-	-	PT-1	-		STUCCO COLOR TO MATCH EXISTING PHASE I	
U1A-09	STORAGE	SC-1	RB-1	PT-1	PT-1	PT-1			
U1B-05	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1			
U1B-01	FOYER	SC-1	RB-1	PT-1	PT-1	PT-1			
U1B-02	KITCHEN	LVT-1	RB-1	PT-2	PT-1	PT-1			
U1B-03	LIVING ROOM	LVT-1	T-3	PT-1	PT-1	PT-1			
U1B-04	BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1			
U1B-06	BATHROOM	T-3	T-4	PT-1	PT-1	PT-1			
U1B-07	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1			
U1B-08	STORAGE	SC-1	-	-	PT-1	PT-1			
U1B-09	PATIO	SC-1	-	-	-	-		STUCCO COLOR TO MATCH EXISTING PHASE I	
U1C-01	FOYER	SC-1	RB-1	PT-1	PT-1	PT-1			
U1C-02	KITCHEN	LVT-1	RB-1	PT-1	PT-1	PT-1		WASHABLE	
U1C-03	LIVING ROOM	LVT-1	RB-1	PT-1	PT-1	PT-1			
U1C-04	BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1			
U1C-05	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1			
U1C-06	BATHROOM	T-3	T-4	PT-1	PT-1	PT-1		WATERPROOF	
U1C-07	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1			
U1C-009	PATIO	SC-1	-	-	-	-		STUCCO COLOR TO MATCH EXISTING PHASE I	
U1C-10	STORAGE	SC-1	-	-	PT-1	PT-1			



**4 TYPICAL ADA CLEARANCE LAYOUT**  
SCALE: 1/4" = 1'-0"



**1 TYPICAL 1-BEDROOM UNIT 1A TYPE B**  
SCALE: 1/4" = 1'-0"

**TYPICAL UNIT ROOM FINISH SCHEDULE**

**FLOOR PLAN GENERAL NOTES**

- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
- WALL TYPES A TO G ARE FOUND ON SHEETS **A8.00**. CONTRACTOR SHALL NOTIFY ARCHITECT FOR ANY WALL TYPE CLARIFICATIONS.
- ALL DOOR FRAMES AND FINISHED OPENINGS TO BE INSTALLED 4" AWAY FROM ADJACENT PERPENDICULAR WALL OR CENTERED IN WALL UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE AND SIZE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AUTHORITY HAVING JURISDICTION AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.
- ALL EXPOSED METAL WELDS SHALL BE GROUND SMOOTH WITH NO PITS. ALL EXPOSED METAL THAT ARE TO RECEIVE PAINT SHALL BE SMOOTH AND PRIMED WITH RUST RESISTANT PRIMER. ALL SHEET METAL FLASHING SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL SHEET METAL MANUAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA). THE INSTALLATION AND STORAGE OF FIRE-RATED DOORS AND FRAMES AND/OR EXPANDED METAL PRODUCTS SHALL BE IN ACCORDANCE WITH THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM).
- UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL PROVIDE MOCK-UP PANELS. THESE INCLUDE ALL EXTERIOR MATERIALS, WINDOWS, ROOFING, AND PAINT COLORS. THE CONTRACTOR MAY USE THESE MOCK-UP PANELS WITHIN THE PROJECT CONSTRUCTION.
- UNLESS NOTED OTHERWISE CONTRACTOR SHALL PROVIDE SEALANT AND BACKER ROD AT TRANSITIONS OF DISSIMILAR MATERIALS. ALL PENETRATIONS THROUGH THE ENCLOSURE SURFACE SHALL BE THOROUGHLY SEALED TO CREATE AN AIR-TIGHT AND WATER-TIGHT INTERFACE, USING APPROPRIATE SEALANT MATERIALS IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS OR GOOD INDUSTRY PRACTICE.

**SYMBOLS LEGEND**

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- X — WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXX — KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

**TYPICAL UNITS SCHEDULE**

UNIT TYPE	TOTAL UNITS	COMMENTS
1A	32	TYPICAL 1 BEDROOM UNIT
1B	14	TYPICAL 1 BEDROOM UNIT
1C	3	TYPICAL 1 BEDROOM ACCESSIBLE
2D	8	TYPICAL 2 BEDROOM
2E	2	TYPICAL 2 BEDROOM ACCESSIBLE
	59	TOTAL UNITS ON ALL FLOORS

**KEYNOTES**

21-02 GC SHALL INSTALL FIRE EXTINGUISHERS IN ALL COMMON AREAS WITH REQUIRED MOUNTING BRACKETS AND HEIGHTS. FIRE EXTINGUISHERS IN ALL UNITS SHALL BE INSTALLED UNDER COUNTER NEARBY RANGE/OVEN

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
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**SHEET TITLE:** TYPICAL UNIT ENLARGED FLOOR PLANS

**REVISIONS**

No.	Description	Date

DRAWN BY: KME  
DATE: 2023-014  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

**SHEET**

**A5.00**

TYPICAL UNIT ROOM FINISH SCHEDULE 2

ROOM NO.	ROOM NAME	FLOOR		WALL		CEILING	NOTES
		FINISH	BASE	FINISH	ACCENT	FINISH	
U2D-01	FOYER	LVT-1	RB-1	PT-1	PT-1	PT-1	WASHABLE
U2D-02	KITCHEN	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2D-03	LIVING ROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2D-04	HALL	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2D-05	BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2D-06	MAIN BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2D-07	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U2D-08	BATHROOM	T-3	T-4	PT-1	PT-1	PT-1	WATERPROOF
U2D-09	PATIO	SC-1	-	-	-	-	STUCCO COLOR TO MATCH EXISTING PHASE I
U2D-10	STORAGE	SC-1	-	PT-1	PT-1	PT-1	
U2D-11	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U2E-01	FOYER	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2E-02	LIVING ROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2E-03	KITCHEN	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2E-04	HALL	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2E-05	BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2E-06	MAIN BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U2E-07	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U2E-08	BATHROOM	T-3	T-4	PT-1	PT-1	PT-1	WATERPROOF
U2E-09	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U2E-10	STORAGE	SC-1	-	-	-	-	
U2E-11	PATIO	SC-1	-	-	-	-	STUCCO COLOR TO MATCH EXISTING PHASE I

FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
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SYMBOLS LEGEND

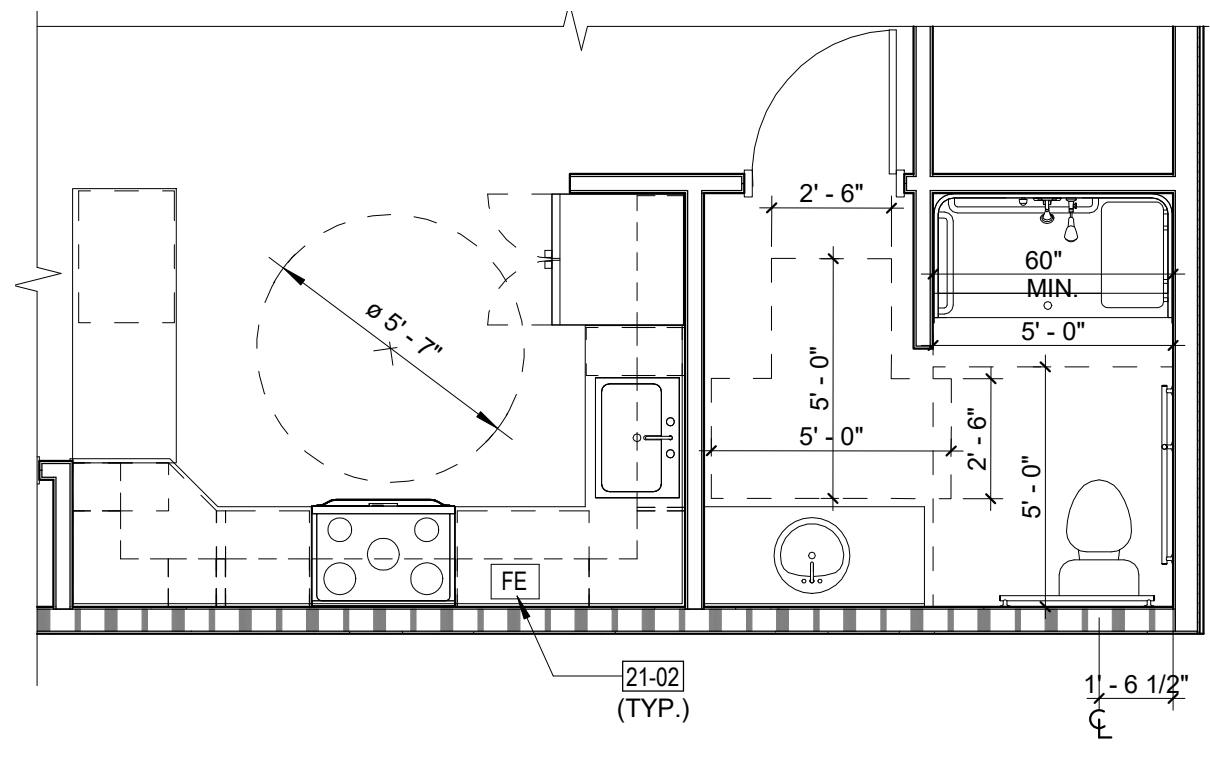
- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- X — WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXX — KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

TYPICAL UNITS SCHEDULE

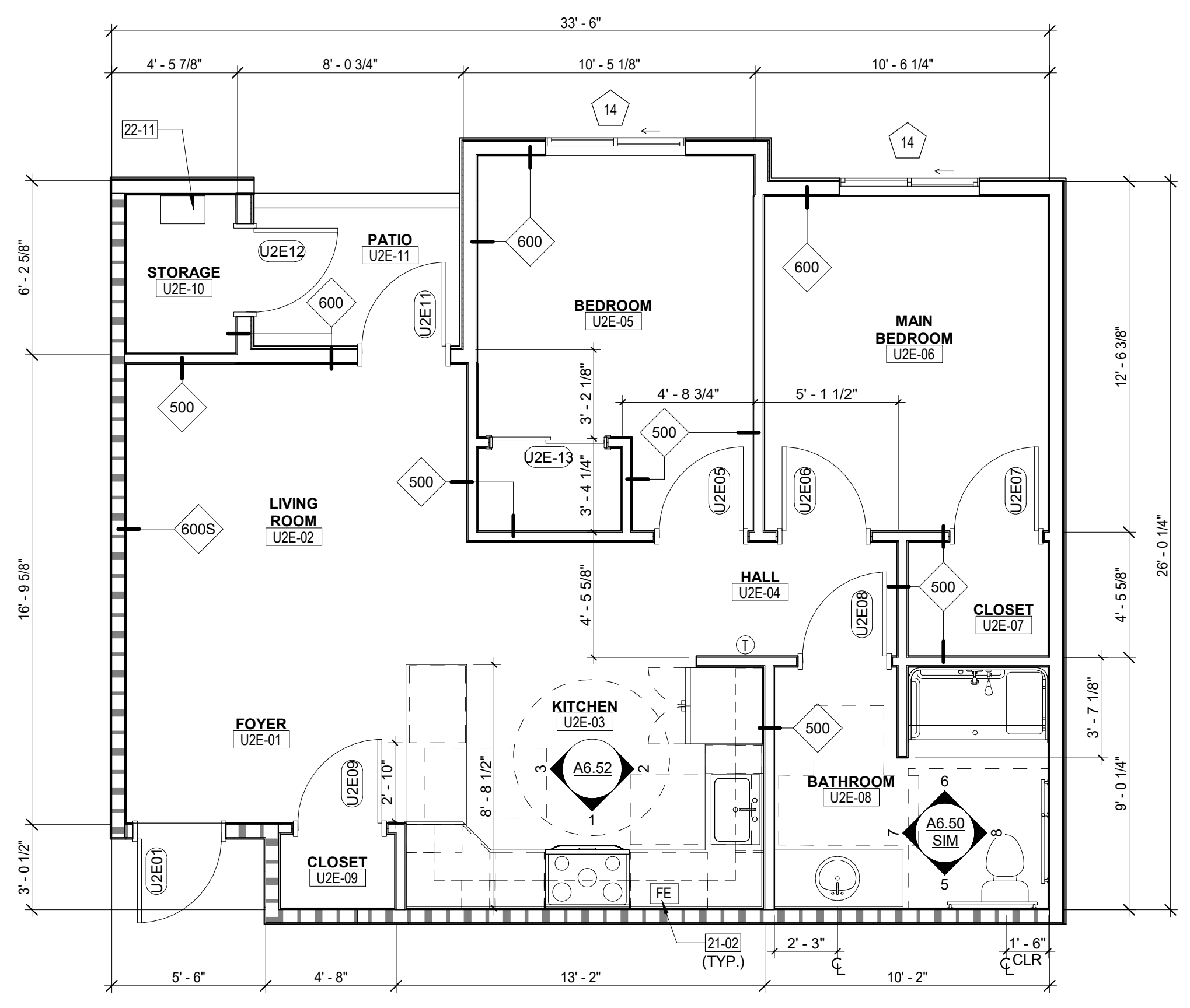
UNIT TYPE	TOTAL UNITS	COMMENTS
1A	32	TYPICAL 1 BEDROOM UNIT
1B	14	TYPICAL 1 BEDROOM UNIT
1C	3	TYPICAL 1 BEDROOM ACCESSIBLE
2D	8	TYPICAL 2 BEDROOM
2E	2	TYPICAL 2 BEDROOM ACCESSIBLE
	59	TOTAL UNITS ON ALL FLOORS

KEYNOTES

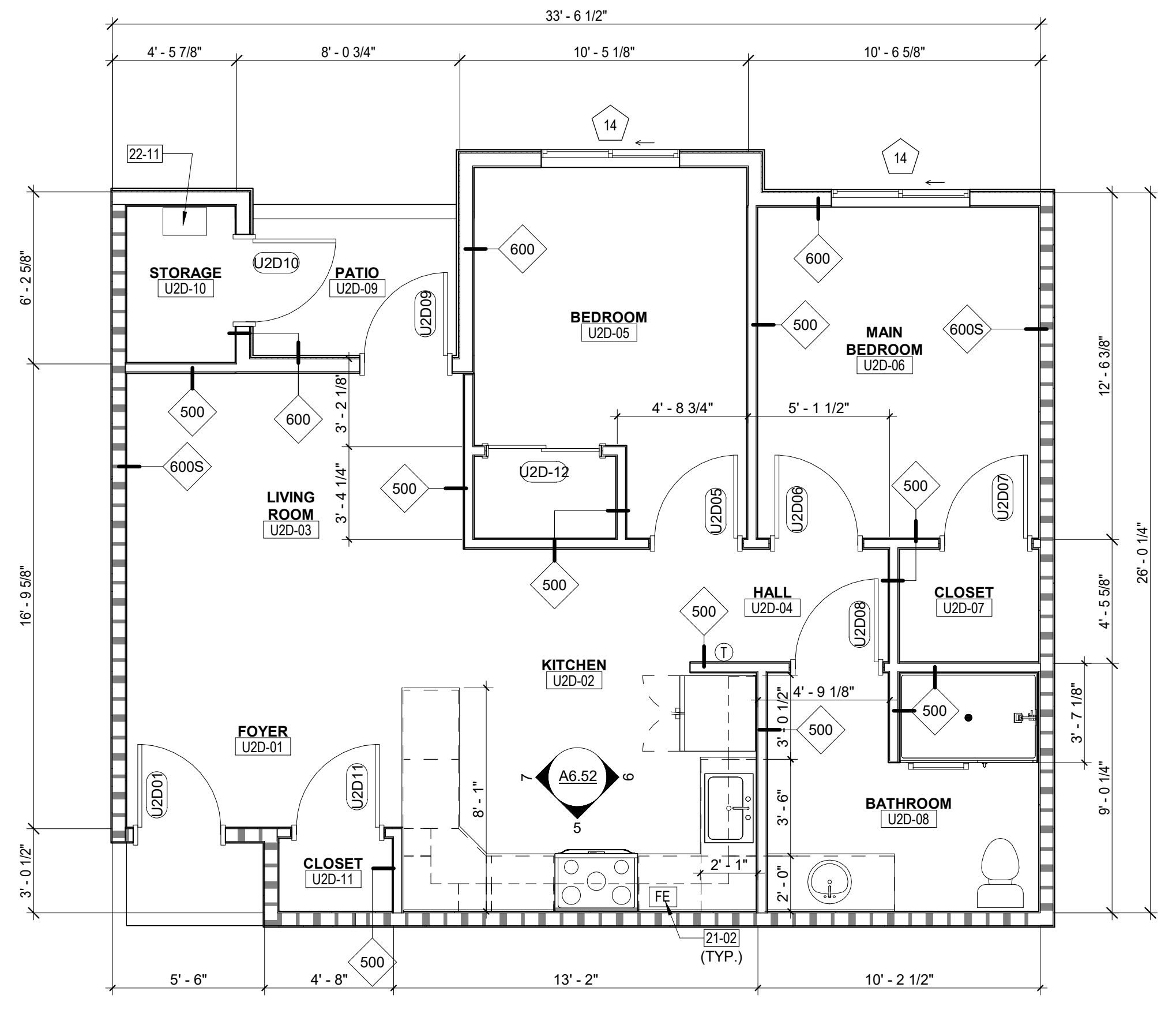
- 21-02 GC SHALL INSTALL FIRE EXTINGUISHERS IN ALL COMMON AREAS WITH REQUIRED MOUNTING BRACKETS AND HEIGHTS. FIRE EXTINGUISHERS IN ALL UNITS SHALL BE INSTALLED UNDER COUNTER NEARBY RANGE/OVEN
- 22-11 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS



3 TYPICAL UNIT ADA CLEARANCE LAYOUT  
SCALE: 1/4" = 1'-0"



2 TYPICAL 2-BEDROOM UNIT 2E  
SCALE: 1/4" = 1'-0"



1 TYPICAL 2-BEDROOM UNIT 2D TYPE B  
SCALE: 1/4" = 1'-0"

**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT:

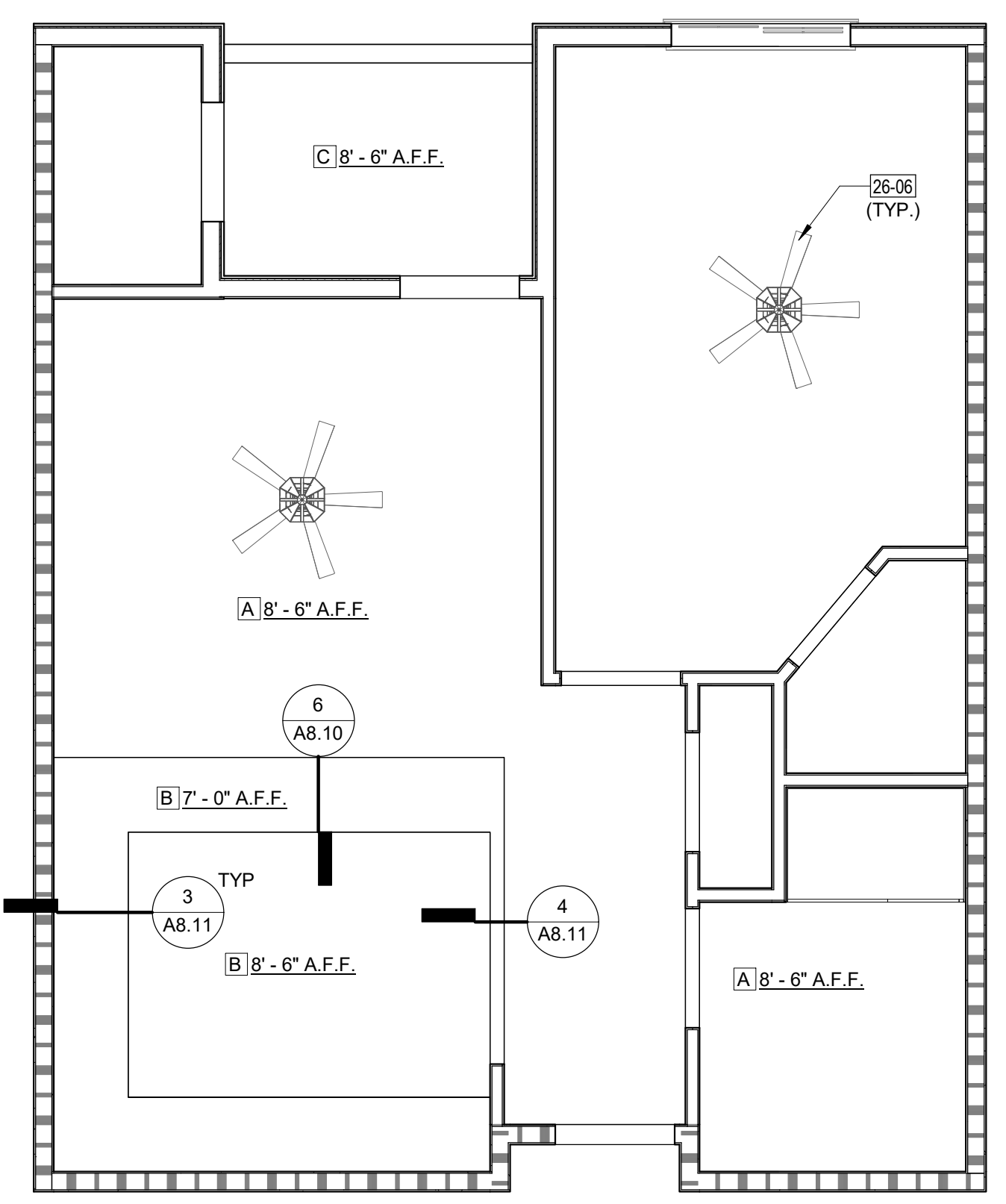
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**TYPICAL UNIT ENLARGED FLOOR PLANS**

REVISIONS

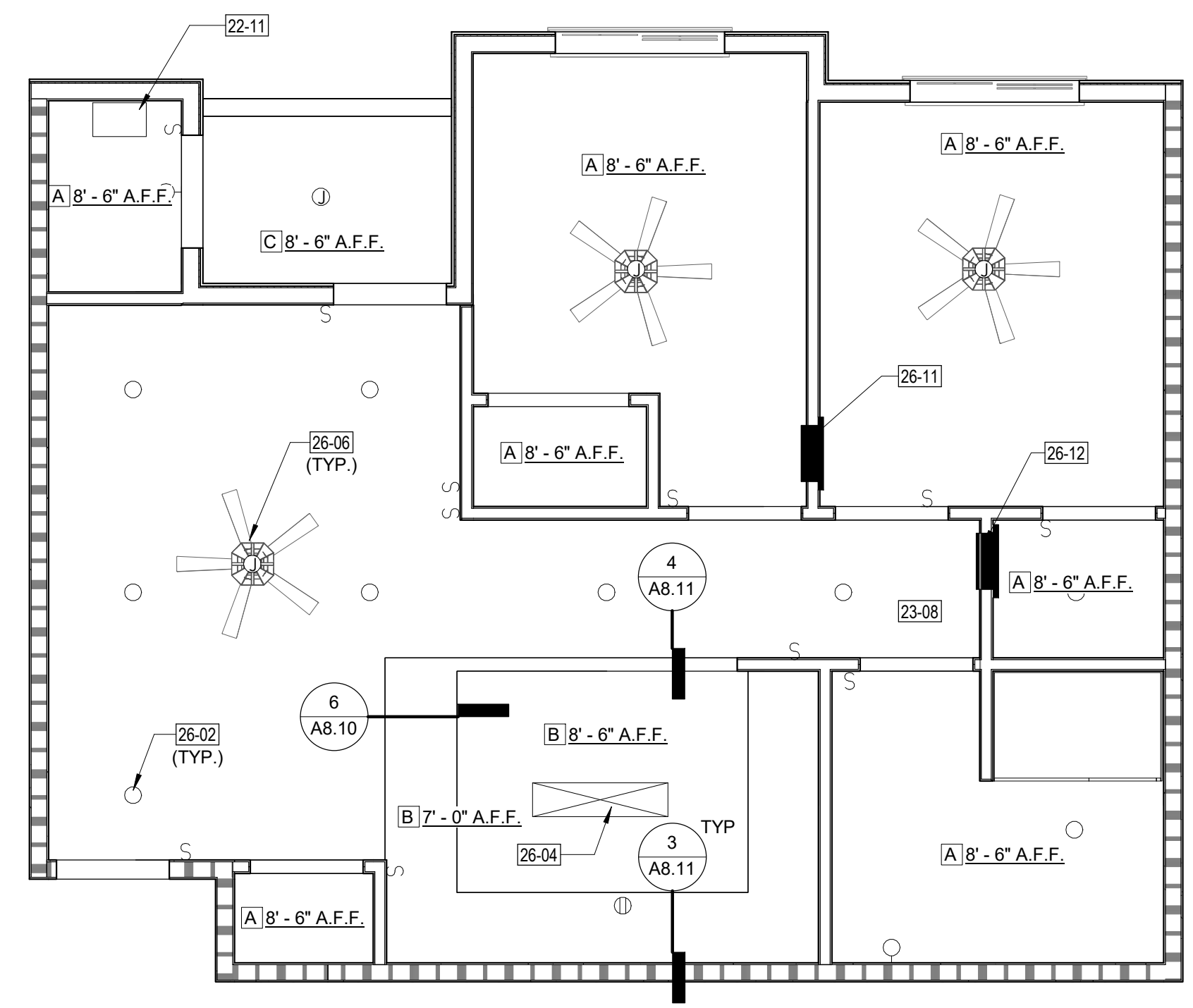
No.	Description	Date

DRAWN BY: KME  
DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

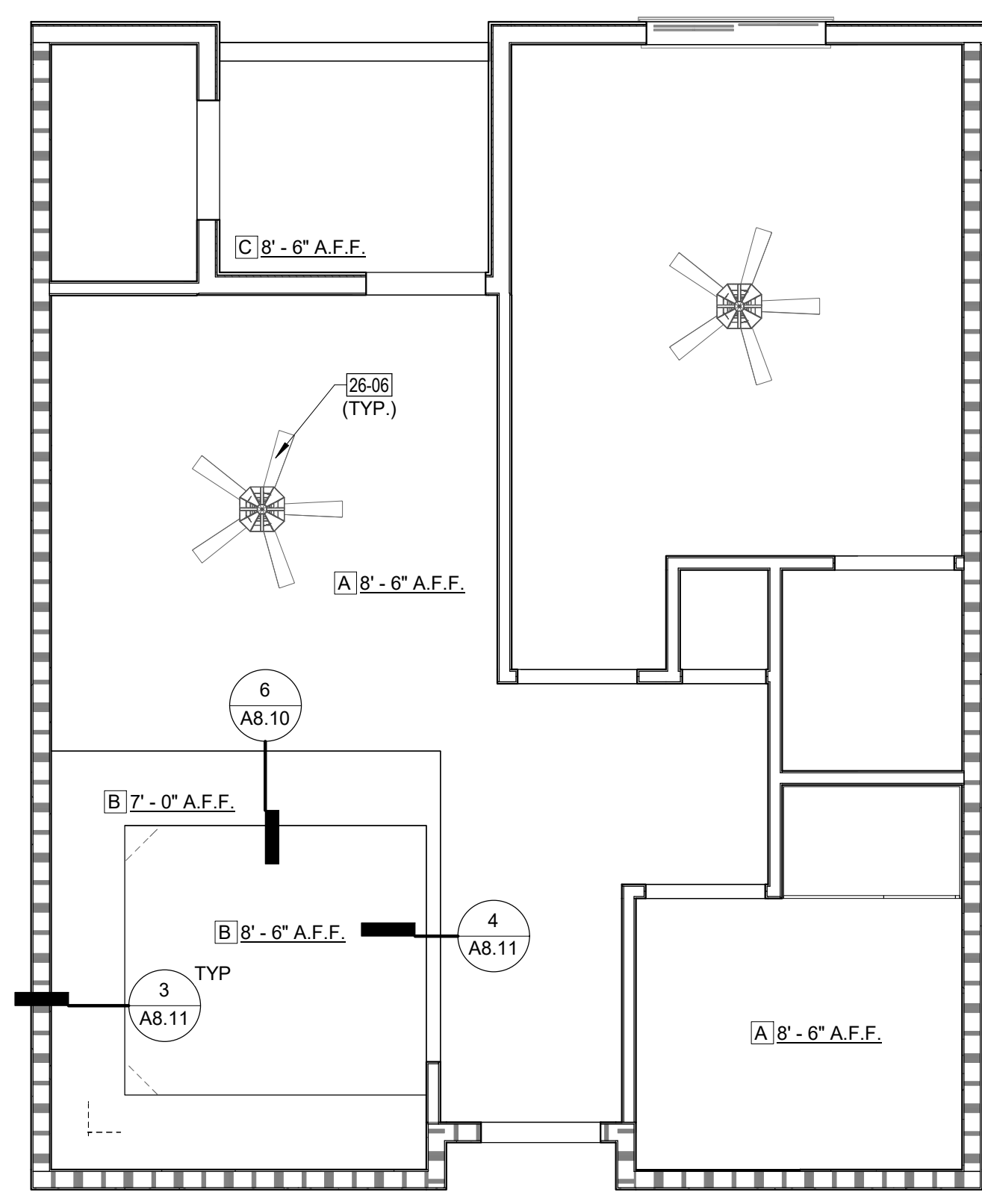
SHEET  
**A5.01**



**2** TYPICAL ENLARGED RCP - UNIT 1B/1C  
SCALE: 1/4" = 1'-0"



**3** TYPICAL ENLARGED RCP - 2-BEDROOM UNIT 2E / 2D TYPE B  
SCALE: 1/4" = 1'-0"



**1** TYPICAL ENLARGED RCP - UNIT 1A TYPE B  
SCALE: 1/4" = 1'-0"

ROOM NO.	ROOM NAME	FLOOR		WALL		CEILING FINISH	NOTES
		FINISH	BASE	FINISH	ACCENT		
U1A-01	FOYER	LVT-1	RB-1	PT-1	PT-1	PT-1	
U1A-02	KITCHEN	LVT-1	RB-1	PT-1	PT-1	PT-1	WASHABLE
U1A-03	LIVING ROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U1A-04	BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U1A-05	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U1A-06	BATHROOM	T-3	T-4	PT-1	PT-1	PT-1	WATERPROOF
U1A-07	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U1A-08	PATIO	SC-1	-	-	PT-1	-	STUCCO COLOR TO MATCH EXISTING PHASE I
U1A-09	STORAGE	SC-1	RB-1	PT-1	PT-1	PT-1	
U1B05	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U1B-01	FOYER	SC-1	RB-1	PT-1	PT-1	PT-1	
U1B-02	KITCHEN	LVT-1	RB-1	PT-2	PT-1	PT-1	
U1B-03	LIVING ROOM	LVT-1	T-3	PT-1	PT-1	PT-1	
U1B-04	BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U1B-06	BATHROOM	T-3	T-4	PT-1	PT-1	PT-1	
U1B-07	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U1B-08	STORAGE	SC-1	-	PT-1	PT-1	PT-1	
U1B-09	PATIO	SC-1	-	-	-	-	STUCCO COLOR TO MATCH EXISTING PHASE I
U1C-01	FOYER	SC-1	RB-1	PT-1	PT-1	PT-1	
U1C-02	KITCHEN	LVT-1	RB-1	PT-1	PT-1	PT-1	WASHABLE
U1C-03	LIVING ROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U1C-04	BEDROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	
U1C-05	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U1C-06	BATHROOM	T-3	T-4	PT-1	PT-1	PT-1	WATERPROOF
U1C-07	CLOSET	SC-1	RB-1	PT-1	PT-1	PT-1	
U1C-009	PATIO	SC-1	-	-	-	-	STUCCO COLOR TO MATCH EXISTING PHASE I
U1C-10	STORAGE	SC-1	-	PT-1	PT-1	PT-1	

- ### REFLECTED CEILING PLAN GENERAL NOTES
- REVIEW ALL DRAWINGS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF DIMENSIONAL INCONSISTENCIES, CONTRADICTIONS, OR OMISSIONS ARE DISCOVERED.
  - CONTRACTOR TO USE HEAVY DUTY CEILING GRID, UNLESS NOTED OTHERWISE.
  - ALL GYPSUM WALL BOARD WITHIN RESTROOMS, BATHROOMS, KITCHENS, OR JANITORS' CLOSETS CEILINGS TO BE 5/8" MOLD TOUGH SHEETROCK PANELS OR EQUAL UNLESS NOTED OTHERWISE.
  - ALL CEILING ELEMENTS (TRIM RINGS, MECHANICAL DIFFUSERS, SMOKE INTAKE GRILLES, ETC.) WITHIN PAINTED CEILINGS TO BE PAINTED TO MATCH CEILING, UNLESS NOTED OTHERWISE.
  - ALL GYPSUM WALLBOARD AND/OR SUBSTRATE PARTITIONS TO HAVE FINISH MATERIAL EXTEND MINIMUM 6" ABOVE LAY-IN GRID CEILINGS, AND FLUSH WITH GYPSUM WALLBOARD AND/OR SUBSTRATE CEILINGS, UNLESS NOTED OTHERWISE.
  - ALL SOUND ATTENUATION AND/OR INSULATED WALLS TO HAVE STUDS, INSULATION, GYPSUM WALLBOARD AND/OR BACKING MATERIAL EXTEND TO STRUCTURE ABOVE. CONTRACTOR TO SEAL ALL PENETRATIONS AND TOP OF WALL WITH ACOUSTICAL SEALANT RATED TO MATCH FIRE RATING OF WALL.
  - ALL PARTITION BRACING TO BE CONCEALED WITHIN CEILING PLENUM SPACE. CONTRACTOR TO ENSURE THAT BRACING TO BE PLACED WITHOUT DISTURBANCE TO ALL OTHER BUILDING SYSTEMS (I.E. FIRE SUPPRESSION, STRUCTURAL, MECHANICAL, ETC.)
  - CONTRACTOR TO REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL ROUTING AND WIRING AS NECESSARY TO ALL ELEMENTS DEPICTED ON REFLECTED CEILING PLANS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PLACEMENT AND INSTALLATION OF ELEMENTS WITHIN CEILING.
  - THE CONTRACTOR SHALL PROVIDE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.

- ### SYMBOLS LEGEND
- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
  - WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
  - XX WINDOW TYPES - SEE SHEET A9.10
  - KEYNOTE
  - XXX FF&E TAG - SEE FURNITURE PLAN
  - FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

- ### REFLECTED CEILING PLAN LEGEND
- A HEIGHT A.F.F. - 5/8" GYPSUM BOARD ON METAL STUDS PAINTED PER FINISH TAG
  - B HEIGHT A.F.F. - WASHABLE 5/8" GYPSUM BOARD METAL STUDS PAINTED PER FINISH TAG
  - C HEIGHT A.F.F. - STUCCO CEILING, PAINT PER FINISH TAG
  - D HEIGHT A.F.F. - 2X4 VINYL CEILING TILES - SMOOTH SURFACE, SEE ROOM FINISH SCHEDULE
  - E HEIGHT A.F.F. - GYPSUM WALL BOARD ON METAL STUDS SOFFIT, PAINTED PER FINISH TAG
  - F HEIGHT A.F.F. - ALL CEILING, INSULATION AND EXPOSED ROOF FRAMING TO BE PAINTED PT-4. ALL NEW HVAC, CONDUIT, ELECTRICAL COMPONENTS, ETC. TO BE PAINTED PT-4. NEW LIGHT FIXTURES AND REGISTERS TO REMAIN WITH FACTORY FINISH.
- FLUORESCENT LIGHT FIXTURE
  - LIGHT FIXTURE
  - PENDANT LIGHTING - DL-1
  - SMOKE DETECTOR
  - SPEAKER
  - EXIT LIGHT
  - HVAC SUPPLY DIFFUSER
  - HVAC RETURN DIFFUSER
  - CEILING FAN
  - HEARING IMPAIRED DEVICE LOCATION

- ### KEYNOTES
- 22-11 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
  - 23-07 EXHAUST FAN, SEE MECHANICAL DRAWINGS
  - 23-08 FAN COIL UNIT ABOVE CEILING, SEE MECHANICAL DRAWINGS
  - 26-02 RECESSED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
  - 26-04 SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
  - 26-06 SURFACE MOUNTED CEILING FAN, SEE ELECTRICAL DRAWINGS
  - 26-11 ELECTRIC PANEL, SEE ELECTRICAL DRAWINGS
  - 26-12 LOW VOLTAGE MEDIA ENCLOSURE, SEE ELECTRICAL DRAWINGS

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave., Las Vegas, NV 89106

**SHEET TITLE:** TYPICAL UNIT ENLARGED REFLECTED CEILING PLANS

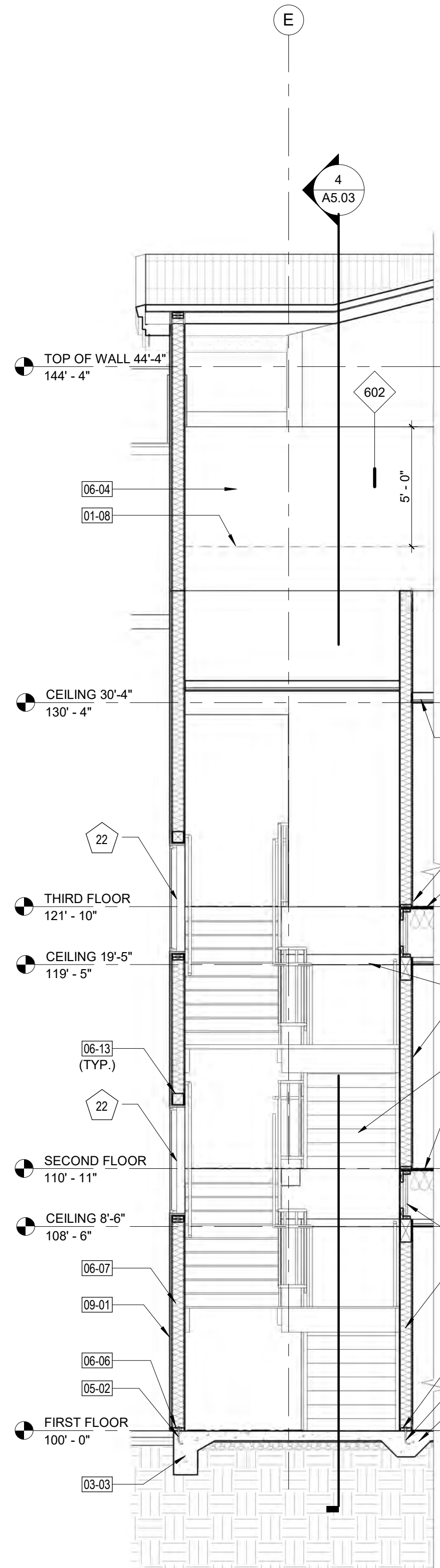
REVISIONS		
No.	Description	Date

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DATE: 2023-014  
JOB NO: 2023-014  
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20% SCALE DRAWINGS

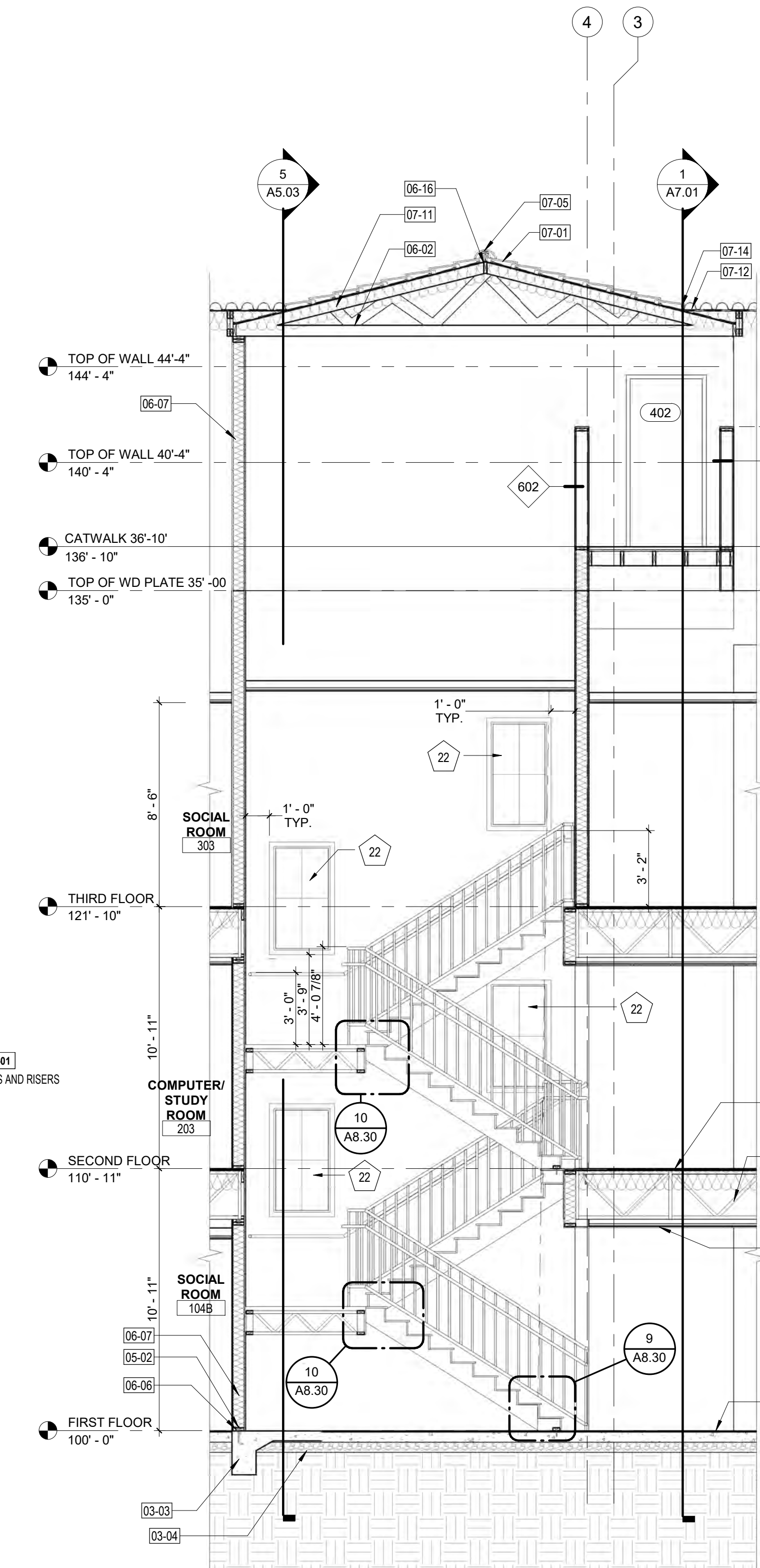
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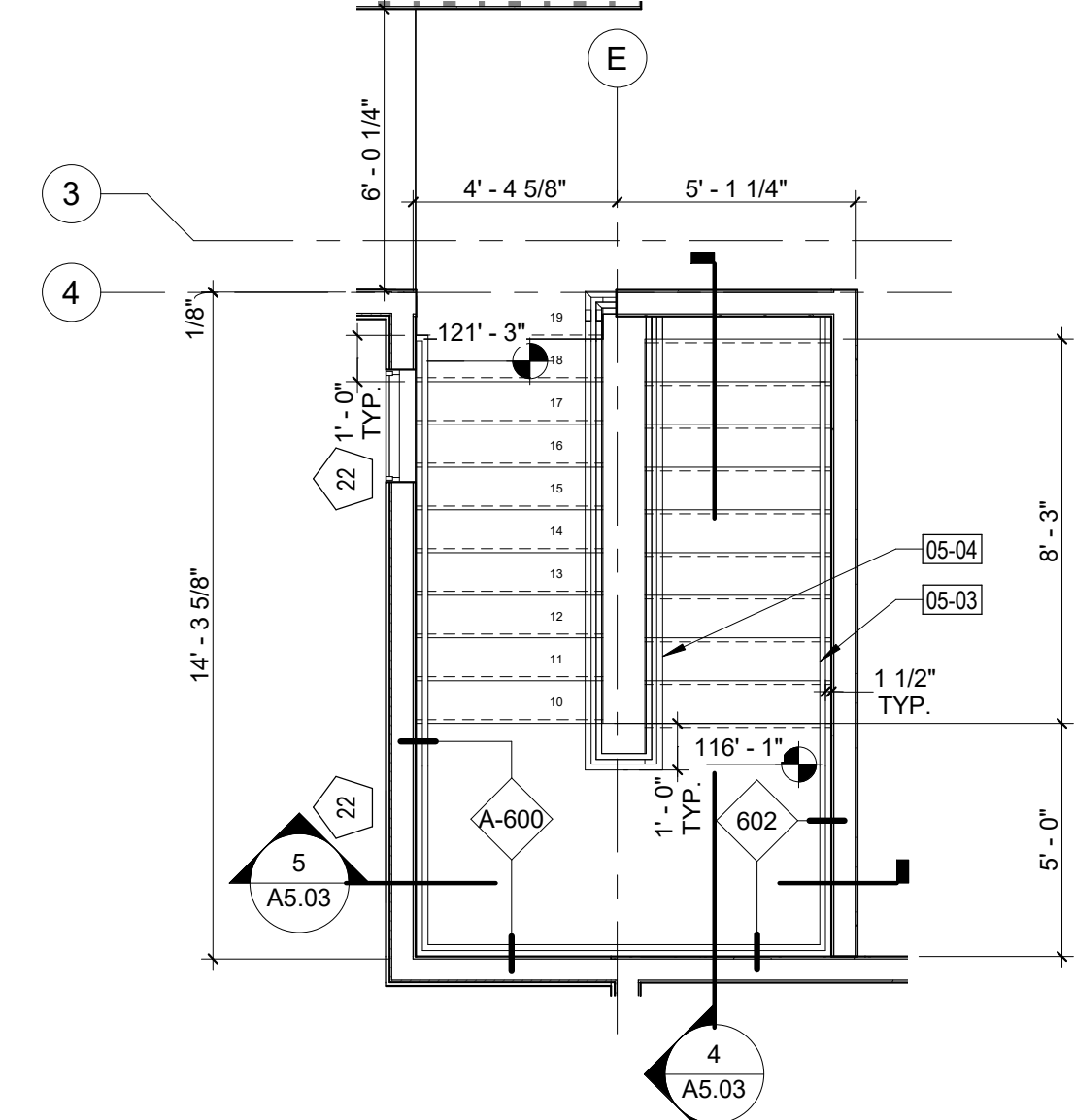
6 LOBBY STAIR 3D VIEW  
SCALE: 1/4" = 1'-0"



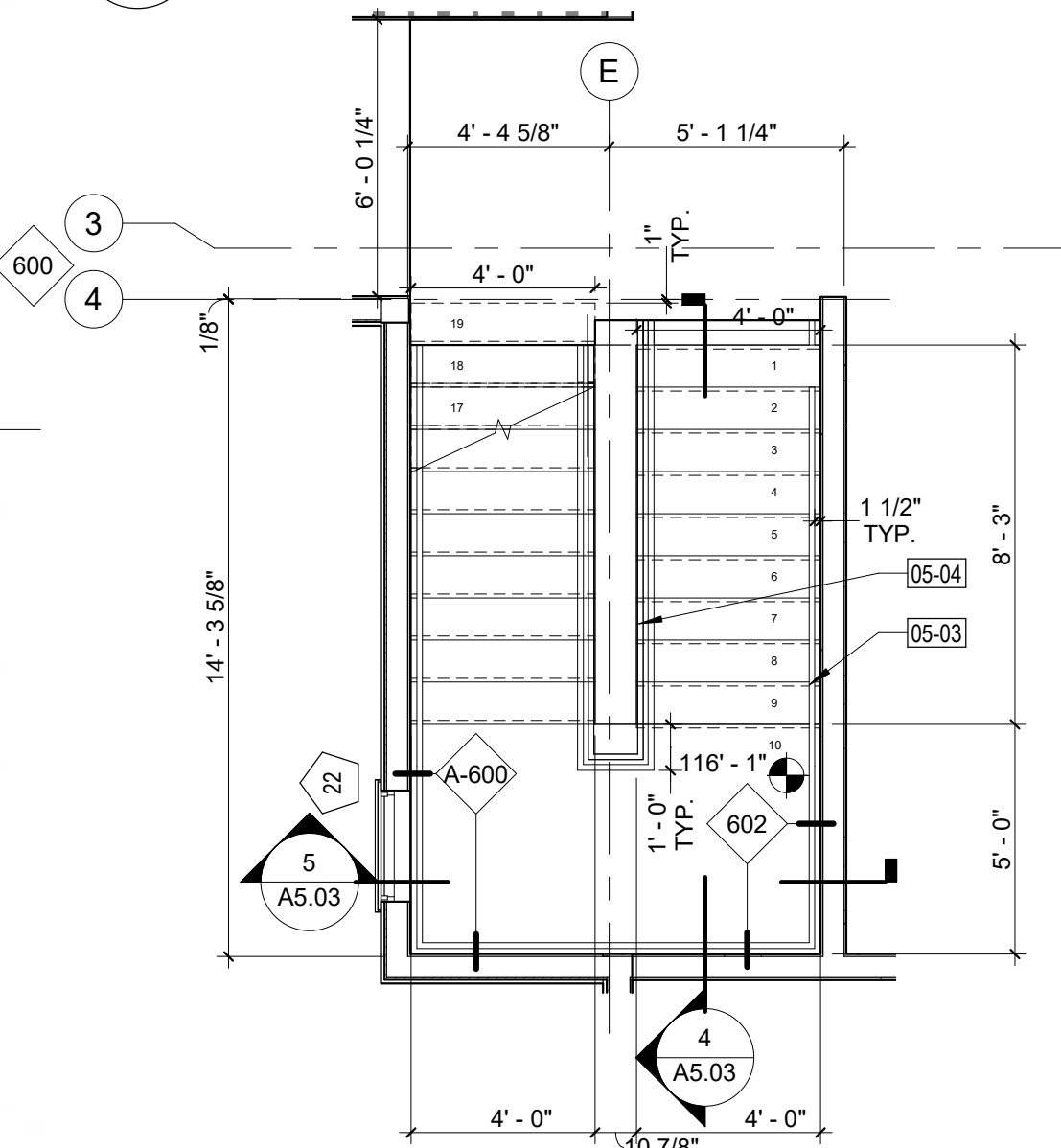
5 STAIR SECTION - LOBBY  
SCALE: 1/4" = 1'-0"



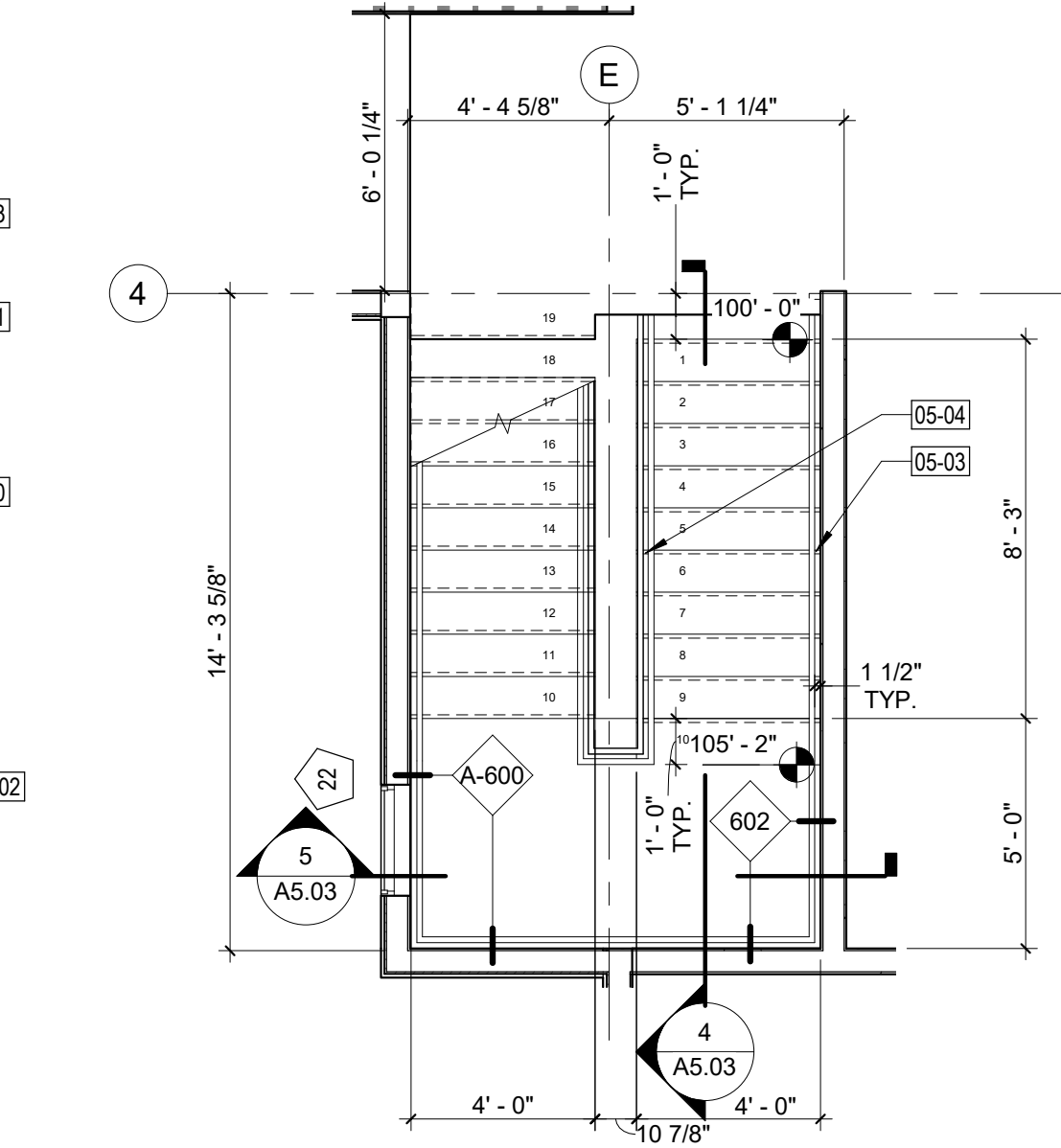
4 STAIR SECTION - LOBBY  
SCALE: 1/4" = 1'-0"



3 ENLARGED STAIR PLAN - THIRD FLOOR  
SCALE: 1/4" = 1'-0"



2 ENLARGED STAIR PLAN - SECOND FLOOR  
SCALE: 1/4" = 1'-0"



7 ENLARGED STAIR PLAN - FIRST FLOOR  
SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
- WALL TYPES A TO BE FOUND ON SHEETS A8.00. CONTRACTOR SHALL NOTIFY ARCHITECT FOR ANY WALL TYPE CLARIFICATIONS.
- ALL DOOR FRAMES AND FINISHED OPENINGS TO BE INSTALLED 4" AWAY FROM ADJACENT PERPENDICULAR WALL OR CENTERED IN WALL UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE AND SIZE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AUTHORITY HAVING JURISDICTION AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.
- ALL EXPOSED METAL WELDS SHALL BE GROUND SMOOTH WITH NO PITS. ALL EXPOSED METAL THAT ARE TO RECEIVE PAINT SHALL BE SMOOTH AND PRIMED WITH RUST RESISTANT PRIMER. ALL SHEET METAL FLASHING SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL SHEET METAL MANUAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA). THE INSTALLATION AND STORAGE OF FIRE-RATED DOORS AND FRAMES AND/OR EXPANDED METAL PRODUCTS SHALL BE IN ACCORDANCE WITH THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM).
- UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL PROVIDE MOCK-UP PANELS. THESE INCLUDE ALL EXTERIOR MATERIALS, WINDOWS, ROOFING, AND PAINT COLORS. THE CONTRACTOR MAY USE THESE MOCK-UP PANELS WITHIN THE PROJECT CONSTRUCTION.
- UNLESS NOTED OTHERWISE CONTRACTOR SHALL PROVIDE SEALANT AND BACKER ROD AT TRANSITIONS OF DISSIMILAR MATERIALS. ALL PENETRATIONS THROUGH THE ENCLOSURE SURFACE SHALL BE THOROUGHLY SEALED TO CREATE AN AIR-TIGHT AND WATER-TIGHT INTERFACE, USING APPROPRIATE SEALANT MATERIALS IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS OR GOOD INDUSTRY PRACTICE.

SYMBOLS LEGEND

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- XX WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXXX KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

KEYNOTES

- 01-08 CATWALK FLOOR BEYOND
- 03-02 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
- 03-03 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
- 03-04 TYPE III COMPACTED AGGREGATE BASE, SEE STRUCTURAL
- 05-02 ANCHOR BOLT, SEE STRUCTURAL DRAWINGS
- 05-03 1-1/2" O.D. WALL MOUNT HANDRAIL WITH WALL MOUNTING BRACKET AT 4'-0" O.C. PAINTED
- 05-04 STAIR GUARDRAIL WITH 1-1/2" O.C. HANDRAIL, PAINTED
- 06-01 MFR FLOOR TRUSS, SEE STRUCTURAL
- 06-02 MFR ROOF TRUSS, SEE STRUCTURAL
- 06-04 CATWALK WALL, SEE WALL TYPES
- 06-06 2X SILL PLATE, SEE STRUCTURAL DRAWINGS
- 06-07 2X STUD WALL, SEE STRUCTURAL DRAWINGS
- 06-13 HEADER, SEE STRUCTURAL
- 06-16 2X RIDGE BLOCKING, SEE STRUCTURAL
- 07-01 ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR. ROOF TRUSS, SEE STRUCTURAL
- 07-05 ROOF RIDGE CAP OVER CONT 2X NAILER TO MATCH ROOF TILE STYLE AND COLOR
- 07-11 R-38 INSULATION, INSTALLATION, PER RESNET GRADE 1
- 07-12 #30 FELT OVER ROOF SHEATHING
- 07-14 ROOF TILE EDGE CLOSURE PROFILE
- 09-01 7/8" THICK THREE COAT STUCCO SYSTEM, COLOR TO MATCH EXISTING ADJACENT BUILDING
- 09-05 5/8" THK. GYPSUM BOARD, SEE WALL TYPES
- 09-09 BASEBOARD, SEE ROOM FINISH SCHEDULE
- 09-10 5/8" THK. GYPSUM BOARD CEILING, SEE ROOM FINISH SCHEDULE
- 09-13 FINISH FLOORING OVER FLOOR SHEATHING OVER 2X FLOOR JOIST/MFR FLOOR TRUSS, SEE STRUCTURAL



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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

SHEET TITLE:  
**ENLARGED LOBBY STAIR PLANS AND SECTIONS**

REVISIONS

No.	Description	Date

DRAWN BY: KME  
DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**A5.03**

1

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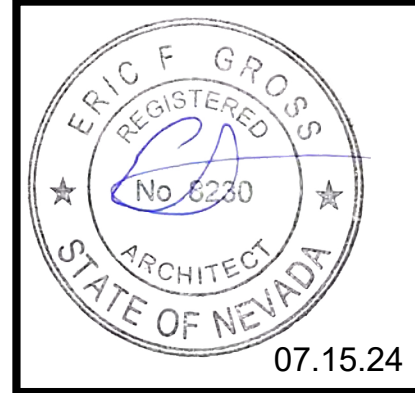
B

A

FLOOR PLAN GENERAL NOTES

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**KME ARCHITECTS**  
 5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
 Fax: 702.888.2089  
 Web: www.kmearchitects.com  
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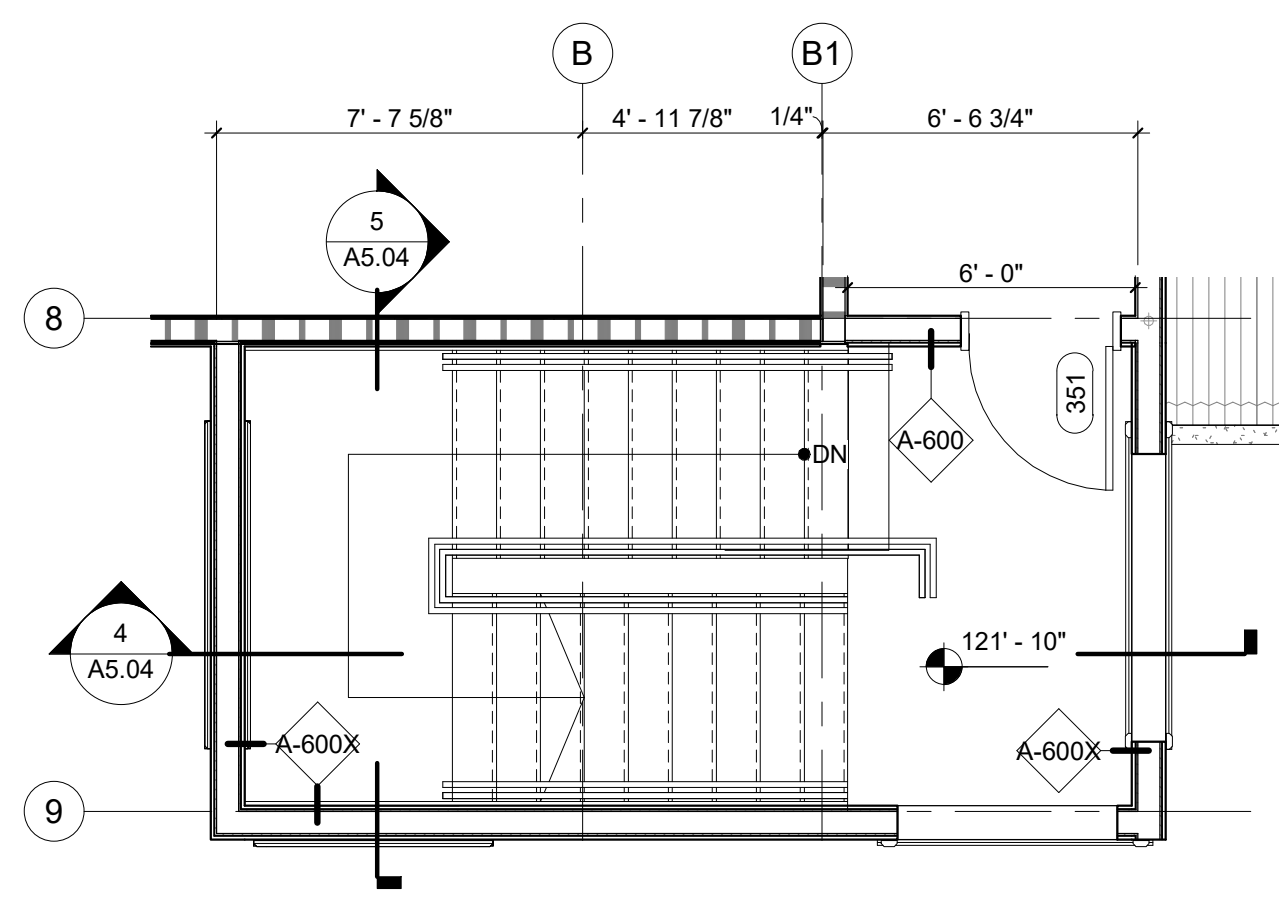
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SYMBOLS LEGEND

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
- X— WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
- XX WINDOW TYPES - SEE SHEET A9.10
- XXX— KEYNOTE
- XXX FF&E TAG - SEE FURNITURE PLAN
- ? FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

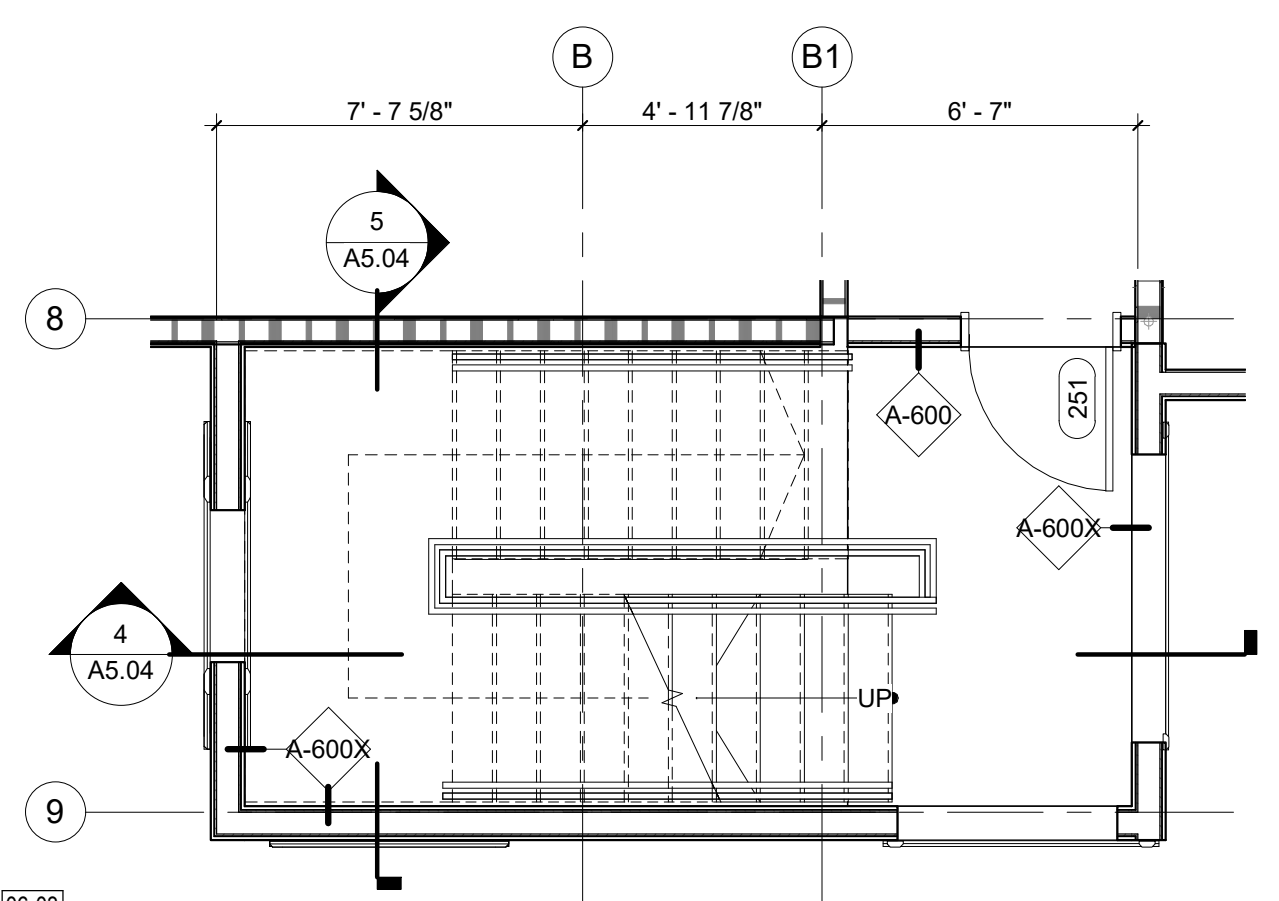
KEYNOTES

- 03-03 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
- 05-02 ANCHOR BOLT, SEE STRUCTURAL DRAWINGS
- 06-03 FLOOR SHEATHING OVER FLOOR TRUSS, SEE STRUCTURAL
- 06-05 2X BLOCKING, SEE STRUCTURAL DRAWINGS
- 06-08 2X SILL PLATE, SEE STRUCTURAL DRAWINGS
- 06-07 2X STUD WALL, SEE STRUCTURAL DRAWINGS
- 06-13 HEADER, SEE STRUCTURAL
- 07-01 ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR. ROOF TRUSS. SEE STRUCTURAL
- 07-09 ROOF SHEATHING, SEE STRUCTURAL
- 07-12 #30 FELT OVER ROOF SHEATHING
- 07-14 ROOF TILE EDGE CLOSURE PROFILE
- 09-01 7/8" THICK THREE COAT STUCCO SYSTEM, COLOR TO MATCH EXISTING ADJACENT BUILDING
- 09-02 CEMENT PLASTER OVER PREMOULDED EAVES PROFILE, PAINT.
- 09-06 EXTERIOR CEMENT BOARD OVER EXTERIOR SHEATHING CEILING SOFFIT, PAINT
- 09-08 CONTINUOUS METAL DRIP HOLD, PAINT
- 09-10 5/8" THK. GYPSUM BOARD CEILING, SEE ROOM FINISH SCHEDULE
- 09-13 FINISH FLOORING OVER FLOOR SHEATHING OVER 2X FLOOR JOIST/MFR FLOOR TRUSS, SEE STRUCTURAL



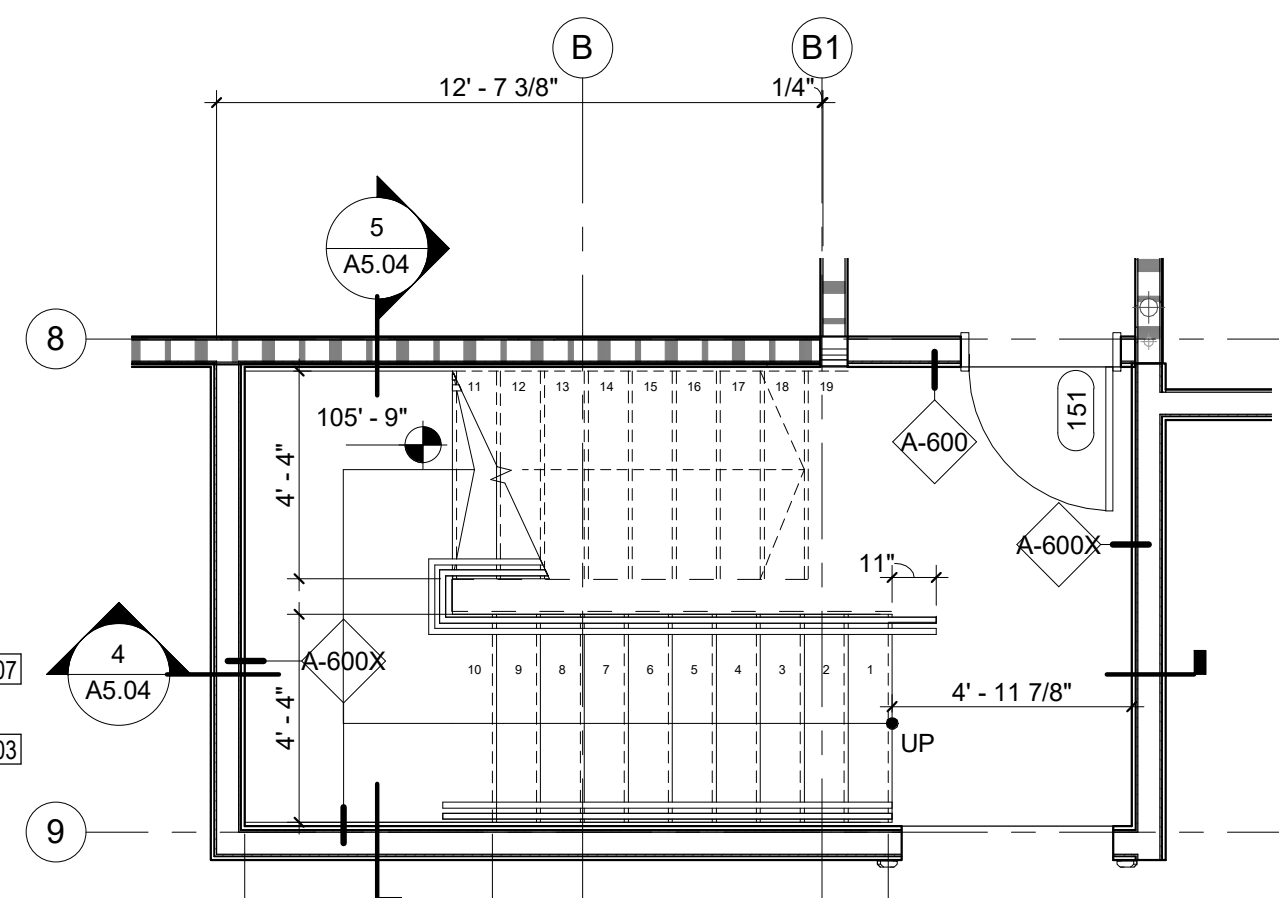
3 ENLARGED STAIR PLAN - THIRD FLOOR

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



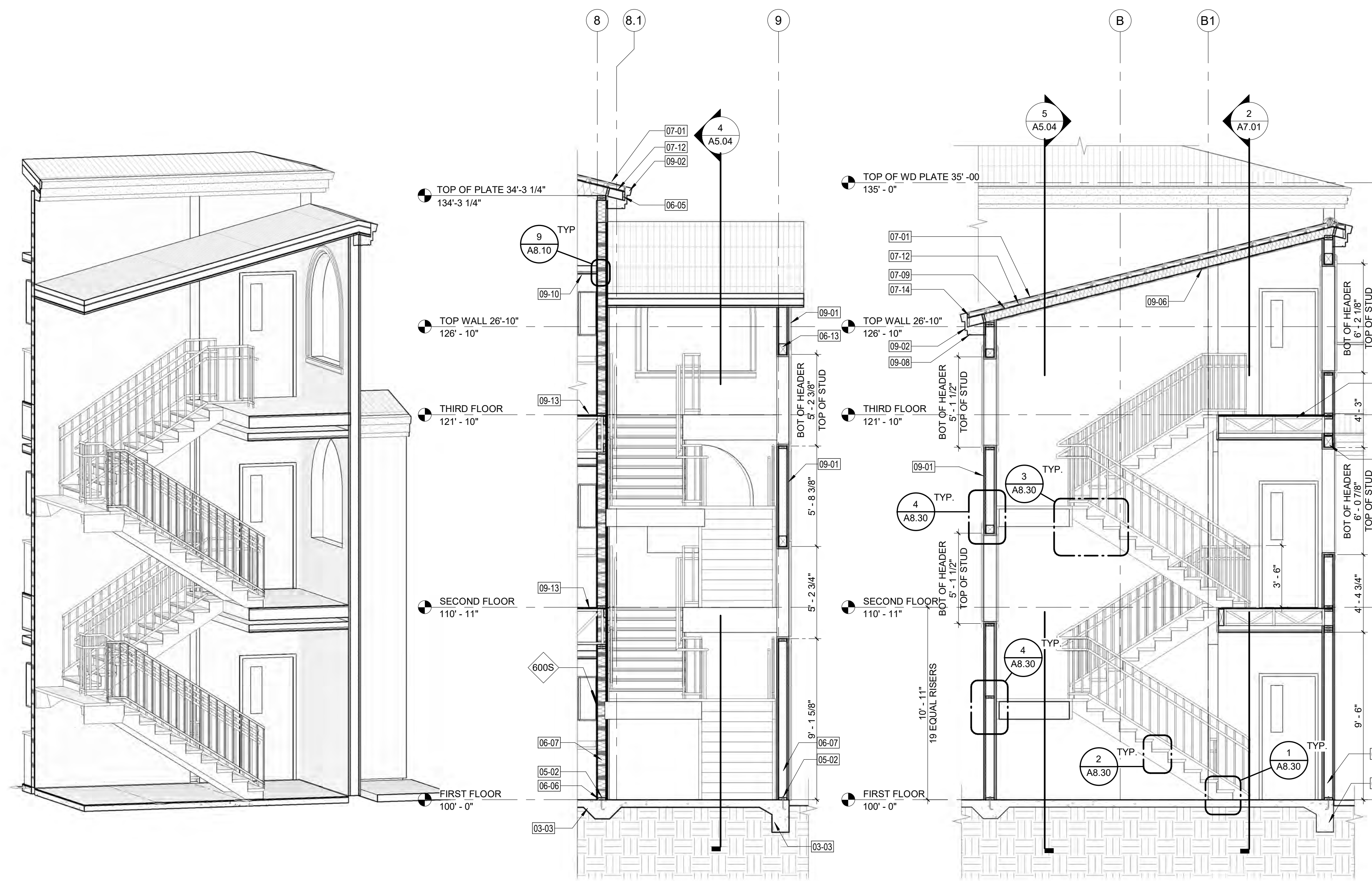
2 ENLARGED STAIR PLAN - SECOND FLOOR

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



1 ENLARGED STAIR PLAN - FIRST FLOOR

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



5 STAIR SECTION

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

4 STAIR SECTION

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

6 STAIR 2 ISOMETRIC VIEW

SCALE:

PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
 1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
**ENLARGED EXTERIOR STAIR PLANS AND SECTIONS**

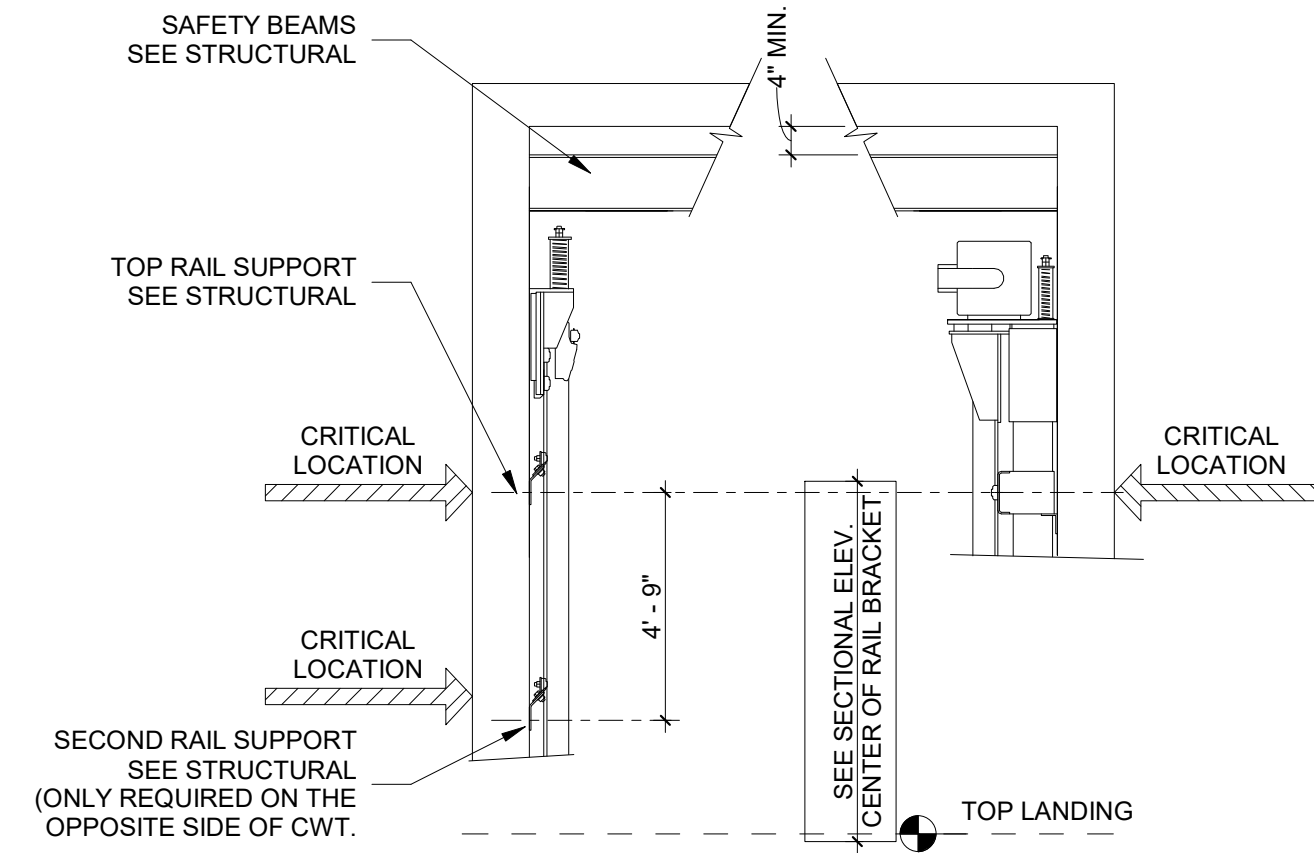
REVISIONS

No.	Description	Date

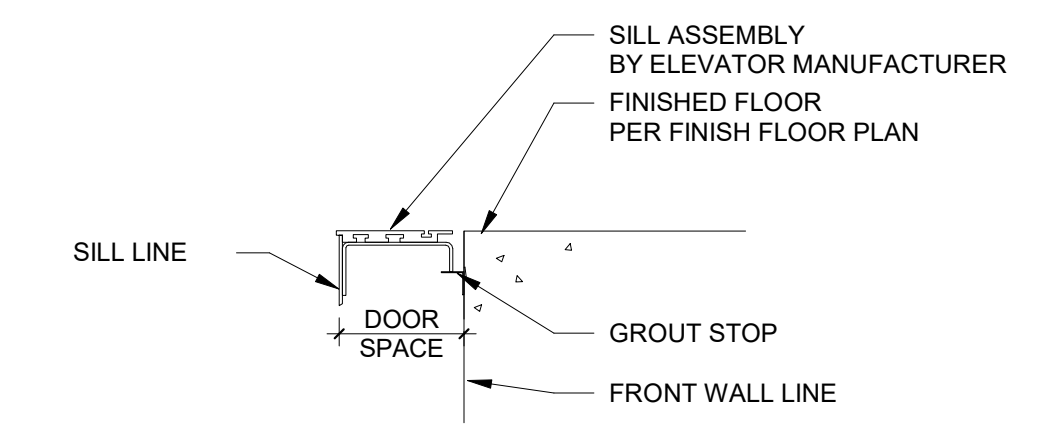
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 JOB NO: 2023-014  
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2023 SCALE DRAWINGS

SHEET

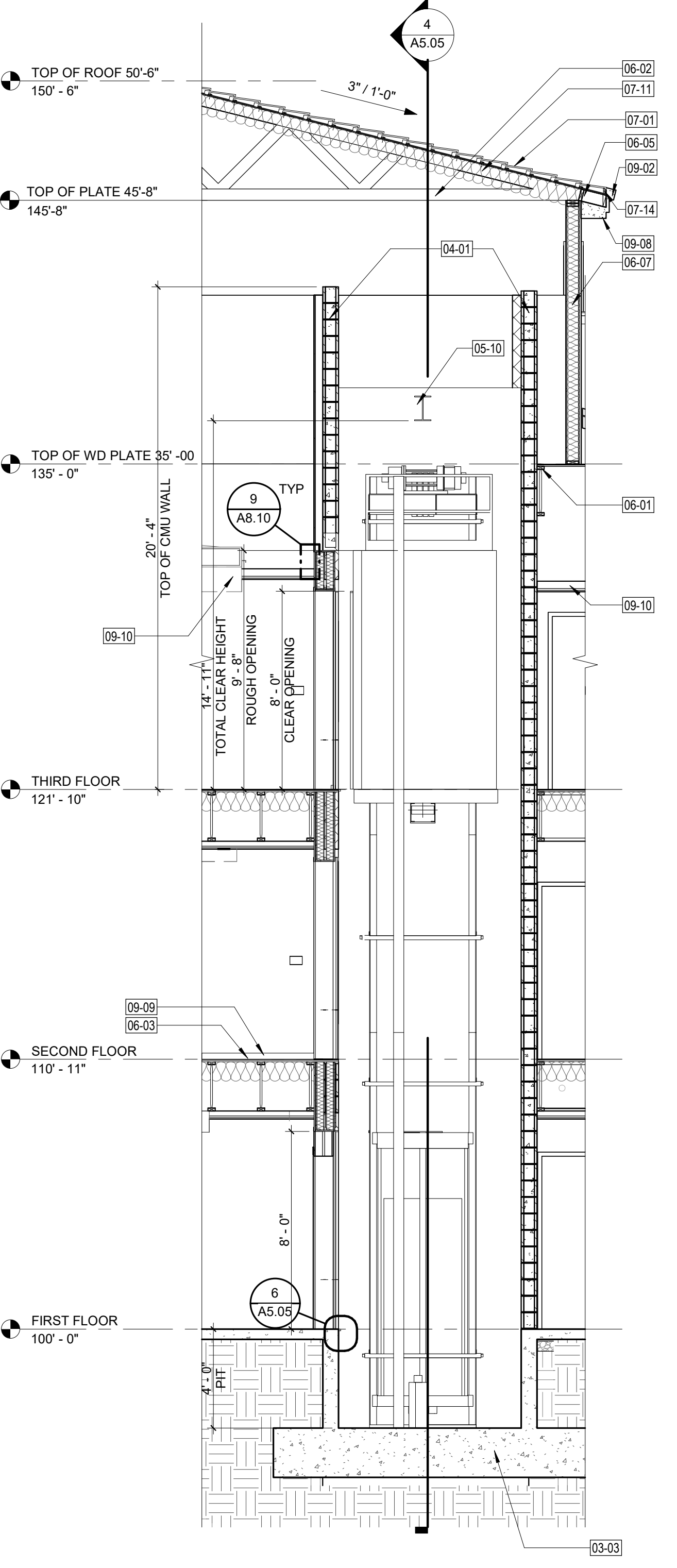
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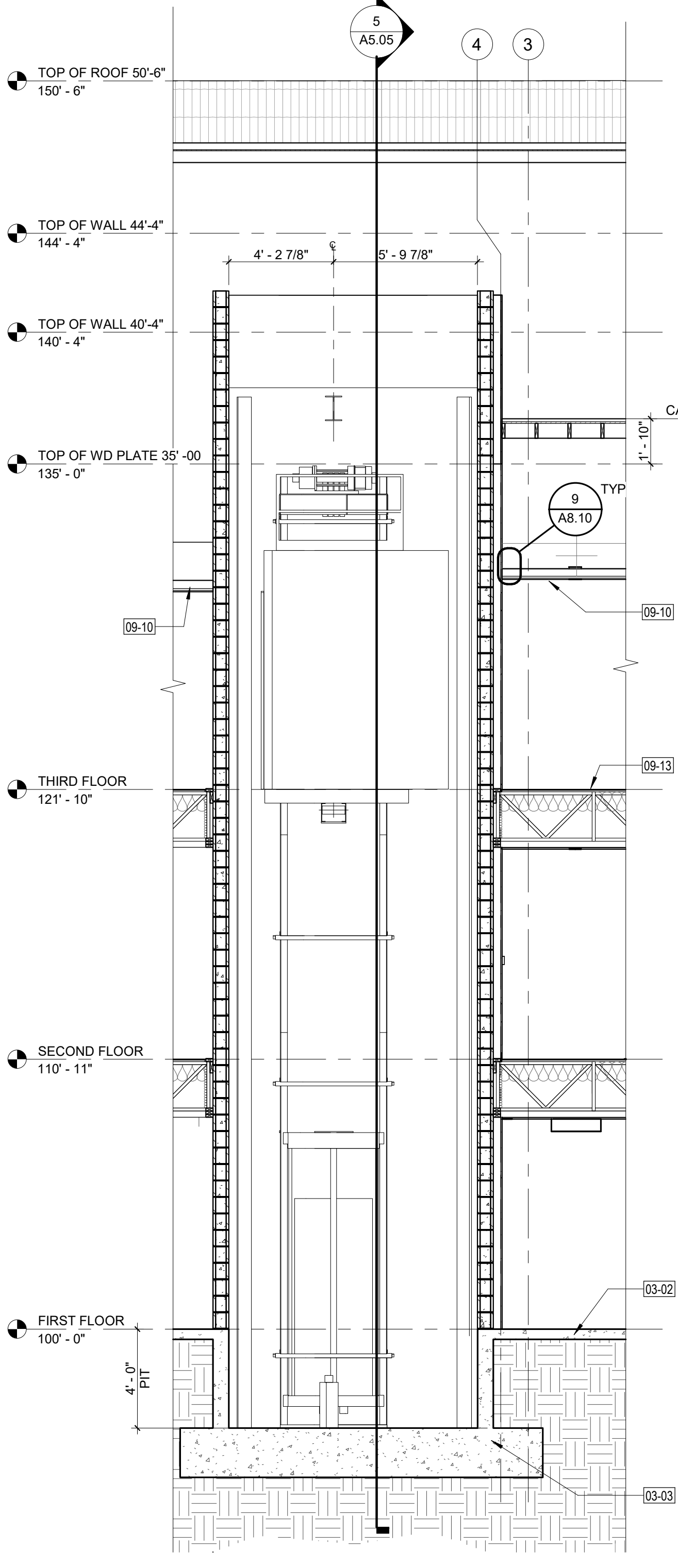
**7 ELEVATOR SUPPORTING BEAM**  
SCALE: 1/4" = 1'-0"



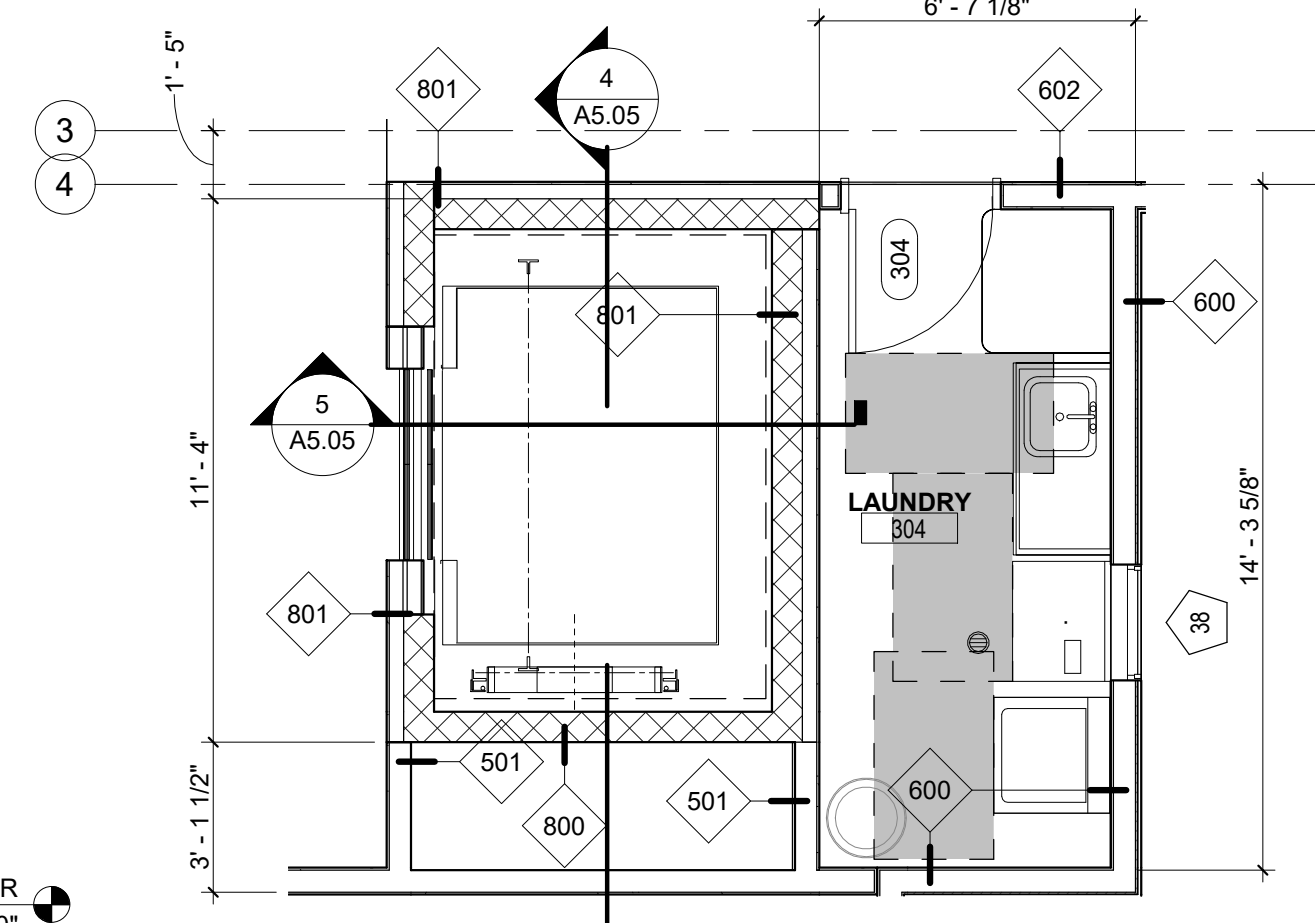
**6 ELEVATOR SILL SUPPORT**  
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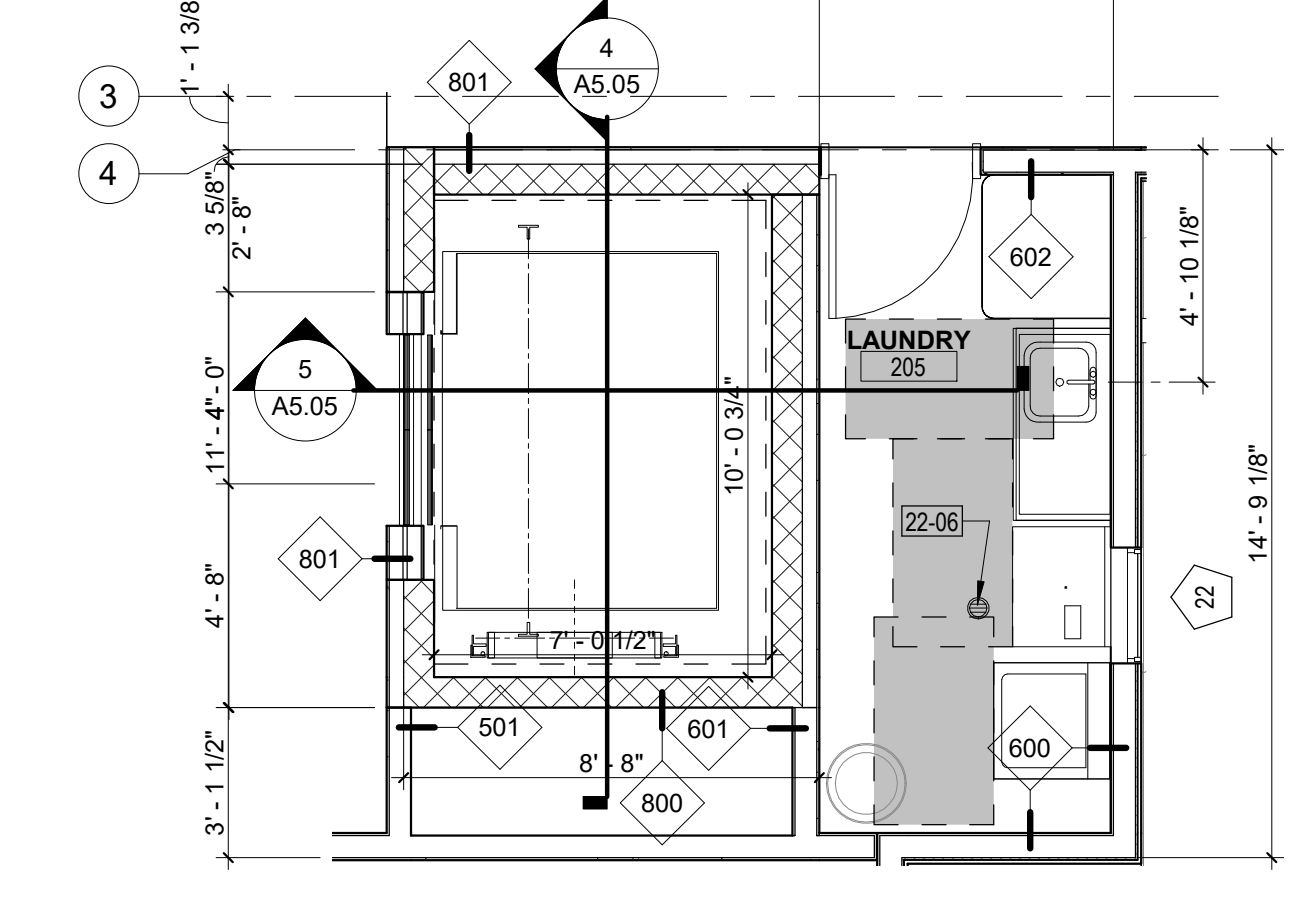
**5 ELEVATOR ENLARGED SECTION**  
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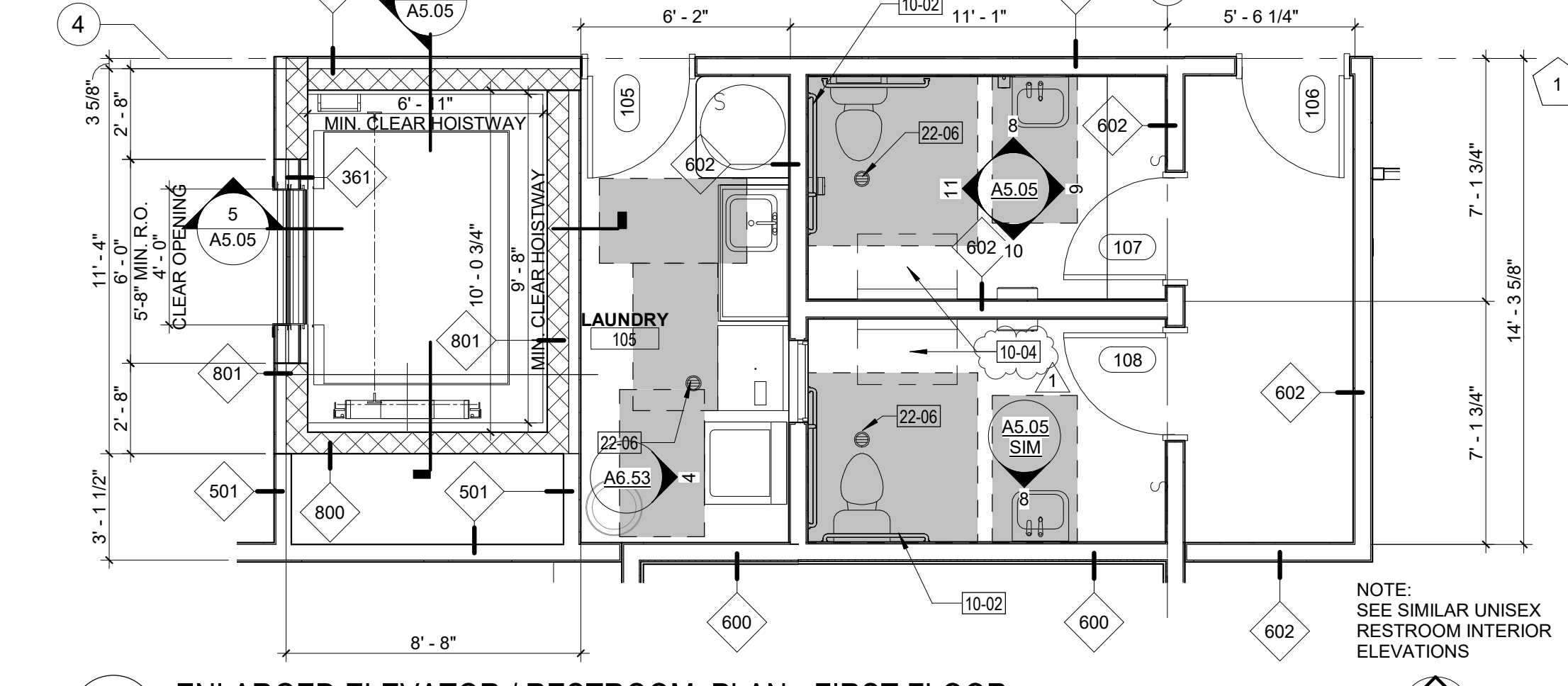
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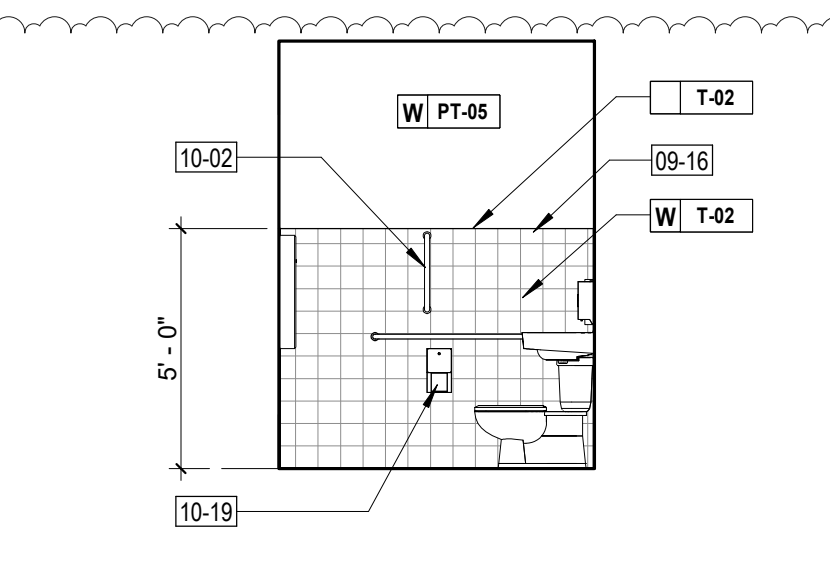
**3 ENLARGED ELEV PLAN - THIRD FLOOR**  
SCALE: 1/4" = 1'-0"



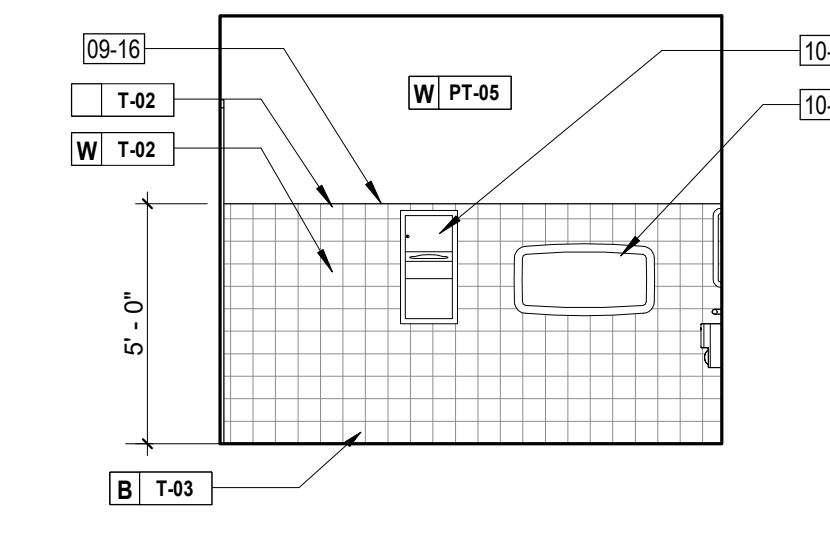
**2 ENLARGED ELEV PLAN - SECOND FLOOR**  
SCALE: 1/4" = 1'-0"



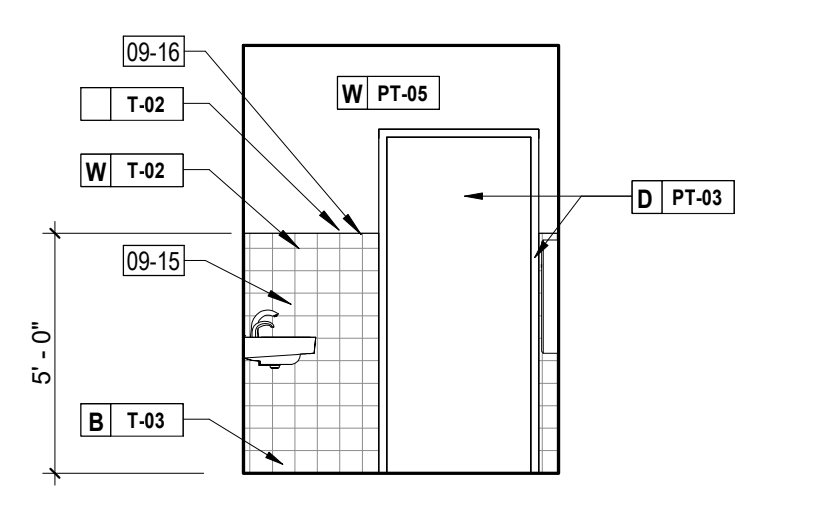
**1 ENLARGED ELEVATOR / RESTROOM PLAN - FIRST FLOOR**  
SCALE: 1/4" = 1'-0"



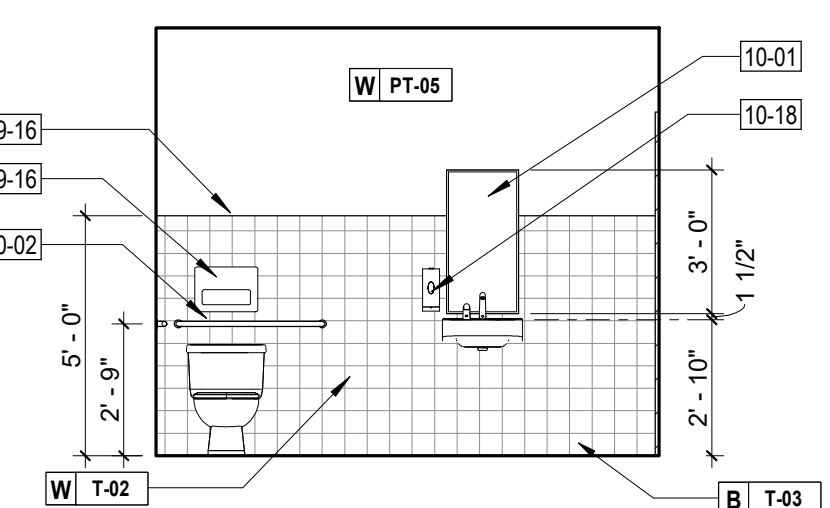
**11 UNISEX RR INT. ELEVATION**  
SCALE: 1/4" = 1'-0"



**10 UNISEX RR INT. ELEVATION**  
SCALE: 1/4" = 1'-0"



**9 UNISEX RR INT. ELEVATION**  
SCALE: 1/4" = 1'-0"



**8 UNISEX RR INT. ELEVATION**  
SCALE: 1/4" = 1'-0"

- FLOOR PLAN GENERAL NOTES**
- ALL DIMENSIONS ARE TO COLUMN CENTERLINES, FACE OF STUD OF INTERIOR WALLS, OR OUTSIDE FACE OF SHEATHING OF EXTERIOR WALL UNLESS NOTED OTHERWISE.
  - WALL TYPES ATO BE FOUND ON SHEETS A8.00. CONTRACTOR SHALL NOTIFY ARCHITECT FOR ANY WALL TYPE CLARIFICATIONS.
  - ALL DOOR FRAMES AND FINISHED OPENINGS TO BE INSTALLED 4" AWAY FROM ADJACENT PERPENDICULAR WALL OR CENTERED IN WALL UNLESS NOTED OTHERWISE.
  - THE CONTRACTOR SHALL PROVIDE AND SIZE THE ACCESS PANELS AS REQUIRED PER MANUFACTURER'S INSTRUCTION, CODE REQUIREMENT, AUTHORITY HAVING JURISDICTION AND PER DRAWINGS PREPARED BY ALL DISCIPLINES TO ENSURE SERVICEABILITY OF ALL EQUIPMENT. FINISH TO MATCH ADJACENT SURFACES. COORDINATE EXACT LOCATION WITH THE ARCHITECT DURING CONSTRUCTION.
  - ALL EXPOSED METAL WELDS SHALL BE GROUND SMOOTH WITH NO PITS. ALL EXPOSED METAL THAT ARE TO RECEIVE PAINT SHALL BE SMOOTH AND PRIMED WITH RUST RESISTANT PRIMER. ALL SHEET METAL FLASHING SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL SHEET METAL MANUAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA). THE INSTALLATION AND STORAGE OF FIRE-RATED DOORS AND FRAMES AND/OR EXPANDED METAL PRODUCTS SHALL BE IN ACCORDANCE WITH THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM).
  - UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL PROVIDE MOCK-UP PANELS. THESE INCLUDE ALL EXTERIOR MATERIALS, WINDOWS, ROOFING, AND PAINT COLORS. THE CONTRACTOR MAY USE THESE MOCK-UP PANELS WITHIN THE PROJECT CONSTRUCTION.
  - UNLESS NOTED OTHERWISE CONTRACTOR SHALL PROVIDE SEALANT AND BACKER ROD AT TRANSITIONS OF DISSIMILAR MATERIALS. ALL PENETRATIONS THROUGH THE ENCLOSURE SURFACE SHALL BE THOROUGHLY SEALED TO CREATE AN AIR-TIGHT AND WATER-TIGHT INTERFACE, USING APPROPRIATE SEALANT MATERIALS IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS OR GOOD INDUSTRY PRACTICE.

- ELEVATOR GENERAL NOTES**
- ELEVATOR SHAFT, PIT, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS. ALL REQUIRED ELEMENTS UTILIZING OTIS MODEL GEN3 EDGE BY OTIS AS BASIS OF DESIGN. ELEVATOR SHAFT AND PIT SIZES, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS ARE PROVIDED FOR BID PURPOSES ONLY. CONTRACTOR TO CONFIRM SHAFT AND PIT DIMENSIONS, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL CONNECTIONS, AND ALL REQUIRED ELEMENTS REQUIRED FOR COMPLETE INSTALLATION AND OPERATIONS OF THE ELEVATOR WITH SELECTED ELEVATOR MANUFACTURER AT TIME OF BID. CONTRACTOR TO PROVIDE ALL ELEMENTS INCLUDING SHAFT AND PIT DIMENSIONS, STRUCTURAL CONNECTIONS, FOOTINGS, MECHANICAL, PLUMBING AND ELECTRICAL REQUIREMENTS AS A DESIGN SUBMITTAL FOR APPROVAL PRIOR TO ACCEPTANCE AND INSTALLATION OF PROPOSED ELEVATOR AT TIME OF BID. CONTRACTOR TO PROVIDE HIGHEST QUALITY INTERIOR MATERIALS PROVIDED BY MANUFACTURER WITHIN BID PROPOSAL. CONTRACTOR SHALL BEAR ALL COSTS REQUIRED FOR ENGINEERING REQUIRED FOR ACCEPTANCE OF PROPOSED ELEVATOR AT TIME OF BID.

- SYMBOLS LEGEND**
- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00
  - XX WALL TYPE TAG - SEE WALL TYPES SHEET A8.00
  - XX WINDOW TYPES - SEE SHEET A9.10
  - XX KEYNOTE
  - XX FF&E TAG - SEE FURNITURE PLAN
  - XX FINISH MATERIAL TAG - SEE ROOM FINISH SCHEDULE SHEET A9.20

- KEYNOTES**
- 03-02 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
  - 03-03 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
  - 04-01 CMU 1-HR RATED WALL, SEE WALL TYPES
  - 05-10 OVERHEAD BEAM, COORDINATE WITH ELEVATOR MFR AND STRUCTURAL, (TOTAL CLEAR HEIGHT MUST REMAIN CLEAR UNDER SAFETY BEAM).
  - 06-01 MFR FLOOR TRUSS, SEE STRUCTURAL
  - 06-02 MFR ROOF TRUSS, SEE STRUCTURAL
  - 06-03 FLOOR SHEATHING OVER FLOOR TRUSS, SEE STRUCTURAL
  - 06-05 2X BLOCKING, SEE STRUCTURAL DRAWINGS
  - 06-07 2X STUD WALL, SEE STRUCTURAL DRAWINGS
  - 07-01 ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR, ROOF TRUSS, SEE STRUCTURAL
  - 07-11 R-38 INSULATION, INSTALLATION, PER RESNET GRADE 1
  - 07-14 ROOF TILE EDGE CLOSURE PROFILE
  - 09-02 CEMENT PLASTER OVER PREMOULDED EAVES PROFILE, PAINT.
  - 09-08 CONTINUOUS METAL DRIP HOLD, PAINT
  - 09-09 BASEBOARD, SEE ROOM FINISH SCHEDULE
  - 09-10 5/8" THK. GYPSUM BOARD CEILING, SEE ROOM FINISH SCHEDULE
  - 09-13 FINISH FLOORING OVER FLOOR SHEATHING OVER 2X FLOOR JOIST/MFR FLOOR TRUSS, SEE STRUCTURAL
  - 09-15 TILE WAINSCOT LAYER TO BE A MINIMUM OF 60" HIGH
  - 09-16 TOP TRIM, SEE ROOM FINISH SCHEDULE
  - 10-01 LAVATORY MIRROR
  - 10-02 ADA VERTICAL AND HORIZONTAL GRAB BARS, PROVIDE BACKING AS REQUIRED
  - 10-04 BABY CHANGING STATION
  - 10-14 SURFACE MOUNTED WASTE RECEPTACLE
  - 10-18 SOAP DISPENSER
  - 10-19 TOILET TISSUE DISPENSER
  - 22-06 FLOOR DRAIN, SEE PLUMBING DRAWINGS

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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REGISTERED ARCHITECT  
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No. 6230  
STATE OF NEVADA  
07.15.24

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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT: ENLARGED ELEVATOR, RESTROOMS AND SECTIONS  
SHEET TITLE: ENLARGED ELEVATOR, RESTROOMS AND SECTIONS

REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: KME  
DATE: 2023-014  
JOB NO: 2023-014  
SCALE: AS INDICATED  
SHEET: A5.05

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ELEVATION GENERAL NOTES

- CONTRACTOR TO VERIFY THAT ALL OPERABLE ELEMENTS ARE WITHIN THE DESIGNATED ADA REACH RANGES PER THE LATEST CODE COMPLIANCES.
- CONTRACTOR TO VERIFY THAT ALL RECESSED ELEMENTS TO BE PLACED WITHOUT INTERFERENCE FROM ALL OTHER BUILDING ELEMENTS (I.E. STRUCTURAL, MECHANICAL, ETC.) PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY THAT ALL REQUIRED BACKING AND/OR BRACING IS INSTALLED PER MANUFACTURER REQUIREMENTS OR DETAILS PROVIDED.
- CONTRACTOR TO ENSURE THAT ALL LIGHT SHIELDING IS INSTALLED TO MEET MANUFACTURER AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.

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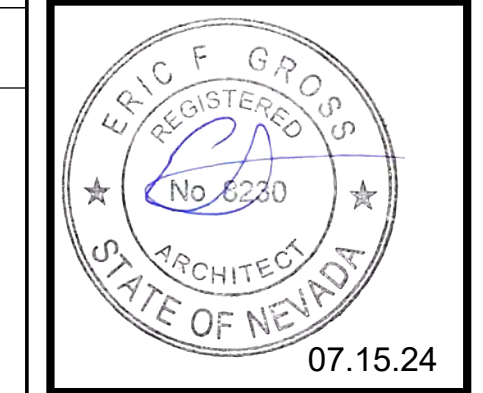
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ELEVATION LEGEND

- DEFS-1 (STUCCO) DIRECT APPLIED EXTERIOR FINISH SYSTEM, PAINT: TO MATCH PHASE I
- RCT-1 ROOF CLAY TILE - COLOR: TO MATCH PHASE I
- MTL-1 COLOR: TO MATCH PHASE I

KEYNOTES

- 07-01 ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR. ROOF TRUSS. SEE STRUCTURAL
- 07-03 METAL PARAPET COPING, PAINTED, COLOR TO MATCH EXTERIOR METAL FINISH
- 07-06 WALL SCUPPER, PAINT
- 09-02 CEMENT PLASTER OVER PREMOLDED EAVES PROFILE, PAINT.
- 09-03 CEMENT PLASTER OVER PREMOLDED FOAM PROFILE WALL TRIM, PAINTED
- 09-07 CEMENT PLASTER WALL CAP, PAINT



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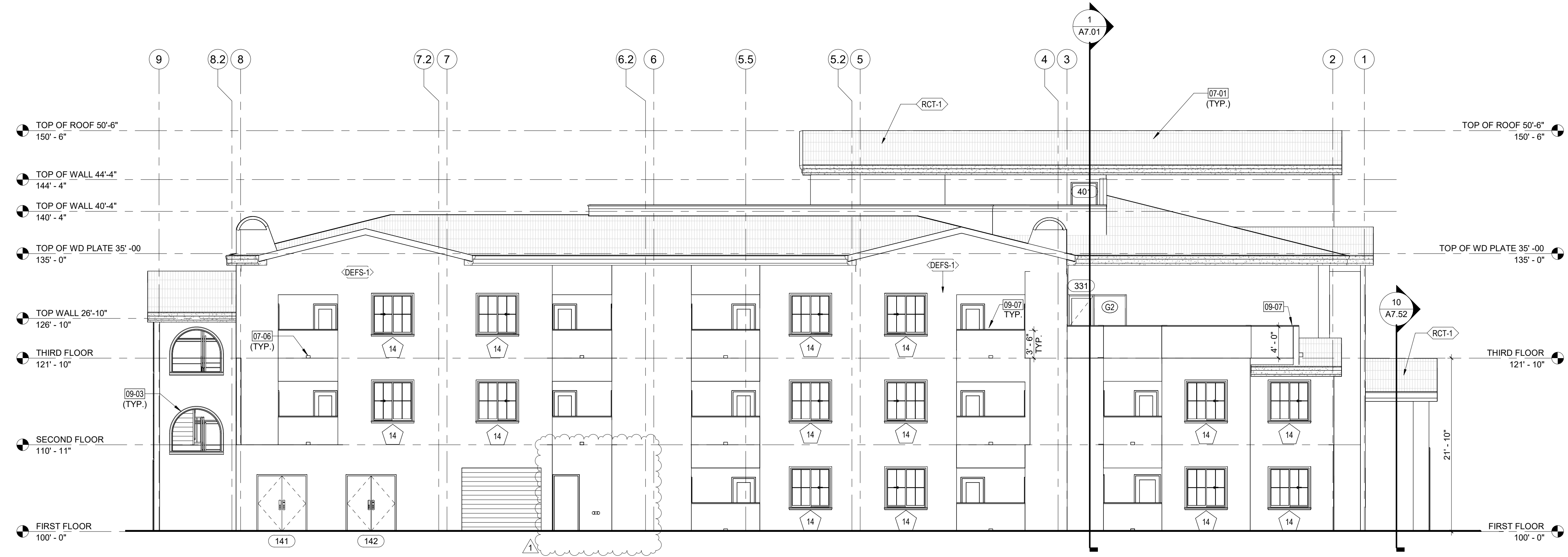
PROJECT:

SHEET TITLE:  
**PHASE II OVERALL EXTERIOR ELEVATIONS**

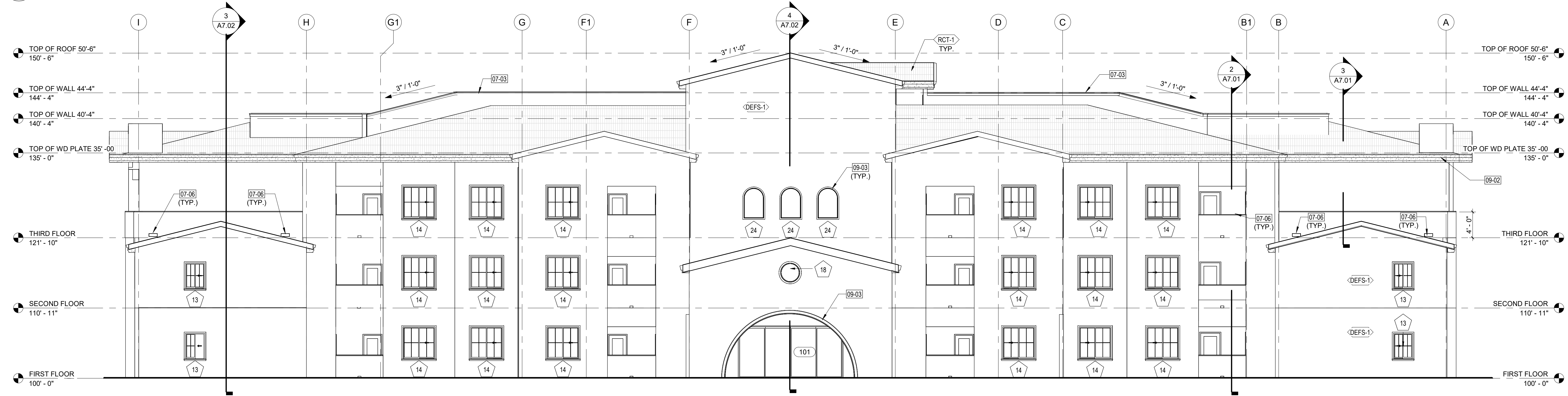
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No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**A6.01**



**2 OVERALL EAST EXTERIOR ELEVATION**  
SCALE: 1/8" = 1'-0"



**1 NORTH EXTERIOR ELEVATION**  
SCALE: 1/8" = 1'-0"

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ELEVATION GENERAL NOTES

- CONTRACTOR TO VERIFY THAT ALL OPERABLE ELEMENTS ARE WITHIN THE DESIGNATED ADA REACH RANGES PER THE LATEST CODE COMPLIANCES.
- CONTRACTOR TO VERIFY THAT ALL RECESSED ELEMENTS TO BE PLACED WITHOUT INTERFERENCE FROM ALL OTHER BUILDING ELEMENTS (I.E. STRUCTURAL, MECHANICAL, ETC.) PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY THAT ALL REQUIRED BACKING AND/OR BRACING IS INSTALLED PER MANUFACTURER REQUIREMENTS OR DETAILS PROVIDED.
- CONTRACTOR TO ENSURE THAT ALL LIGHT SHIELDING IS INSTALLED TO MEET MANUFACTURER AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.

ELEVATION LEGEND

- DEFS-1 (STUCCO) DIRECT APPLIED EXTERIOR FINISH SYSTEM, PAINT: TO MATCH PHASE I
- RCT-1 ROOF CLAY TILE - COLOR: TO MATCH PHASE I
- MTL-1 COLOR: TO MATCH PHASE I

KEYNOTES

- 07-01 ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR. ROOF TRUSS. SEE STRUCTURAL
- 07-03 METAL PARAPET COPING, PAINTED, COLOR TO MATCH EXTERIOR METAL FINISH
- 07-06 WALL SCUPPER, PAINT
- 09-03 CEMENT PLASTER OVER PREMOLDED FOAM PROFILE WALL TRIM, PAINTED
- 09-07 CEMENT PLASTER WALL CAP, PAINT

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5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

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Fax: 702.888.2089  
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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

PROJECT:

SHEET TITLE:

PHASE II OVERALL EXTERIOR ELEVATIONS

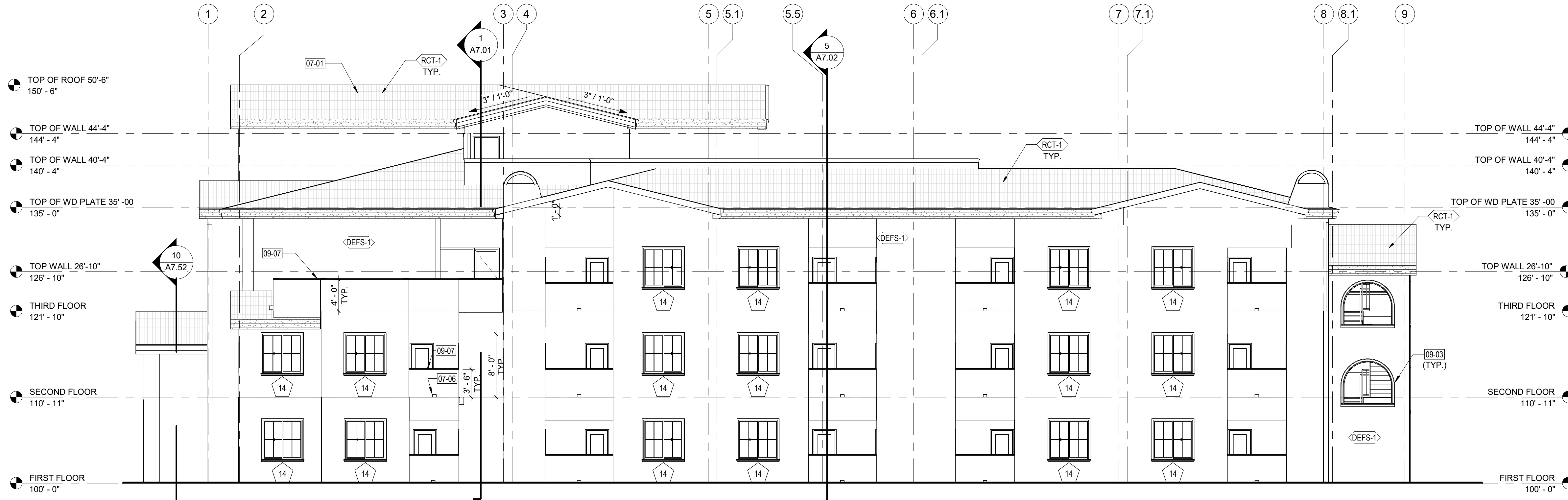
REVISIONS

No.	Description	Date

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DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

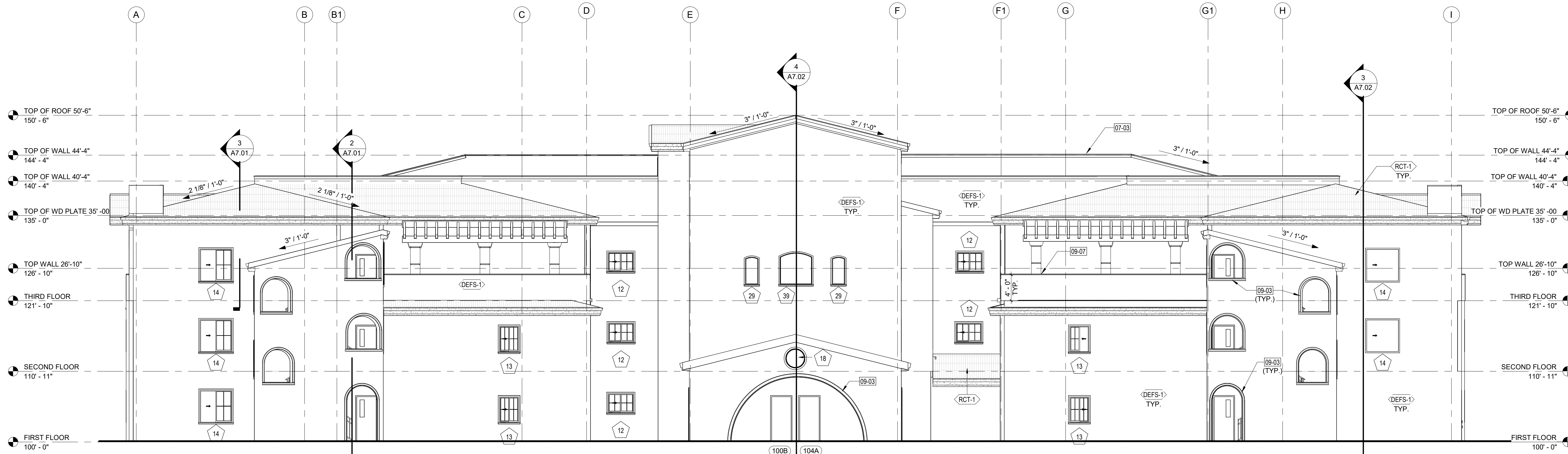
SHEET

A6.02



4 OVERALL WEST EXTERIOR ELEVATION

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



3 OVERALL SOUTH EXTERIOR ELEVATION

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



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Las Vegas, NV 89113  
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**ELEVATION GENERAL NOTES**

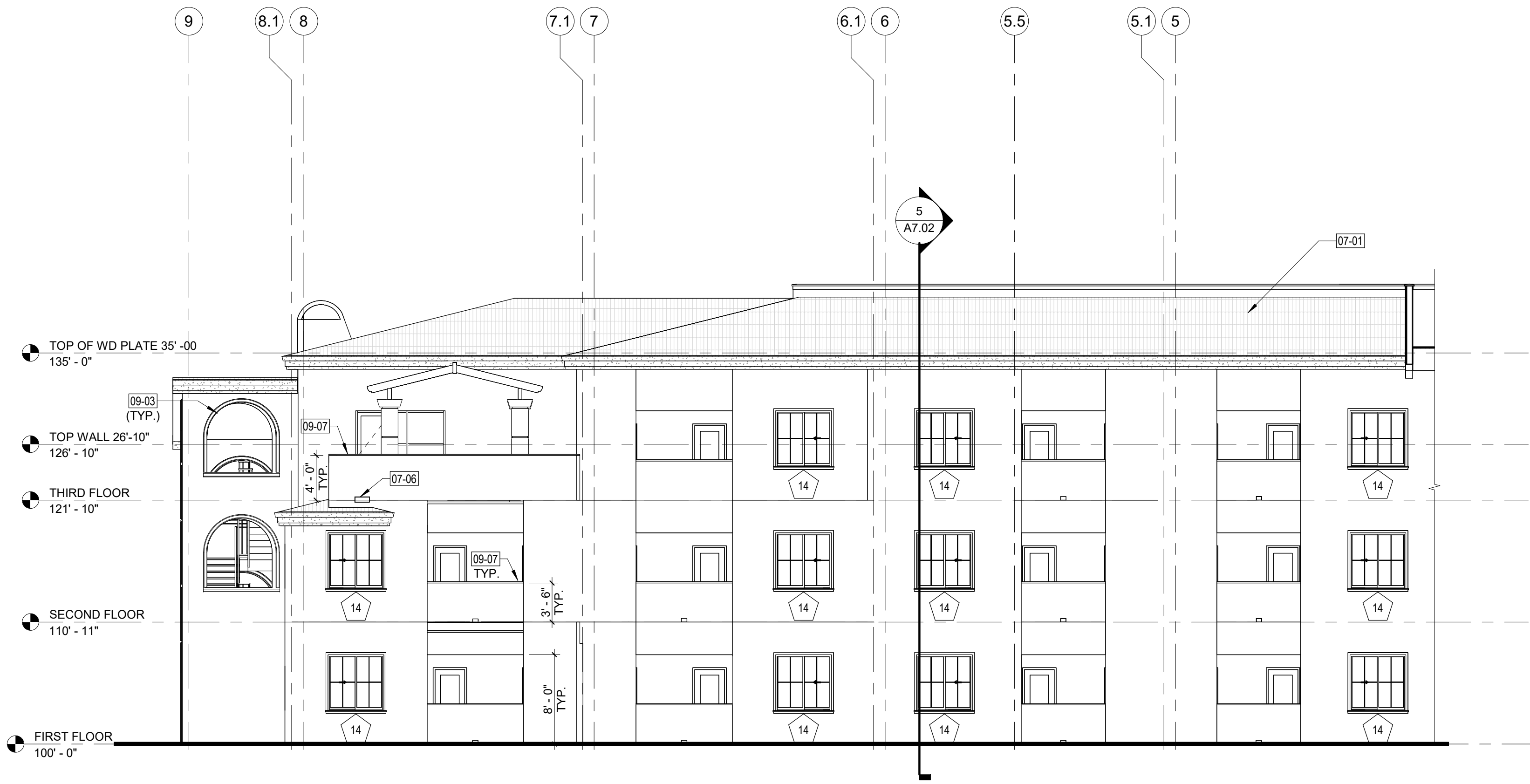
1. CONTRACTOR TO VERIFY THAT ALL OPERABLE ELEMENTS ARE WITHIN THE DESIGNATED ADA REACH RANGES PER THE LATEST CODE COMPLIANCES.
2. CONTRACTOR TO VERIFY THAT ALL RECESSED ELEMENTS TO BE PLACED WITHOUT INTERFERENCE FROM ALL OTHER BUILDING ELEMENTS (I.E. STRUCTURAL, MECHANICAL, ETC.) PRIOR TO INSTALLATION.
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**ELEVATION LEGEND**

- DEFS-1 (STUCCO) DIRECT APPLIED EXTERIOR FINISH SYSTEM, PAINT: TO MATCH PHASE I
- RCT-1 ROOF CLAY TILE - COLOR: TO MATCH PHASE I
- MTL-1 COLOR: TO MATCH PHASE I

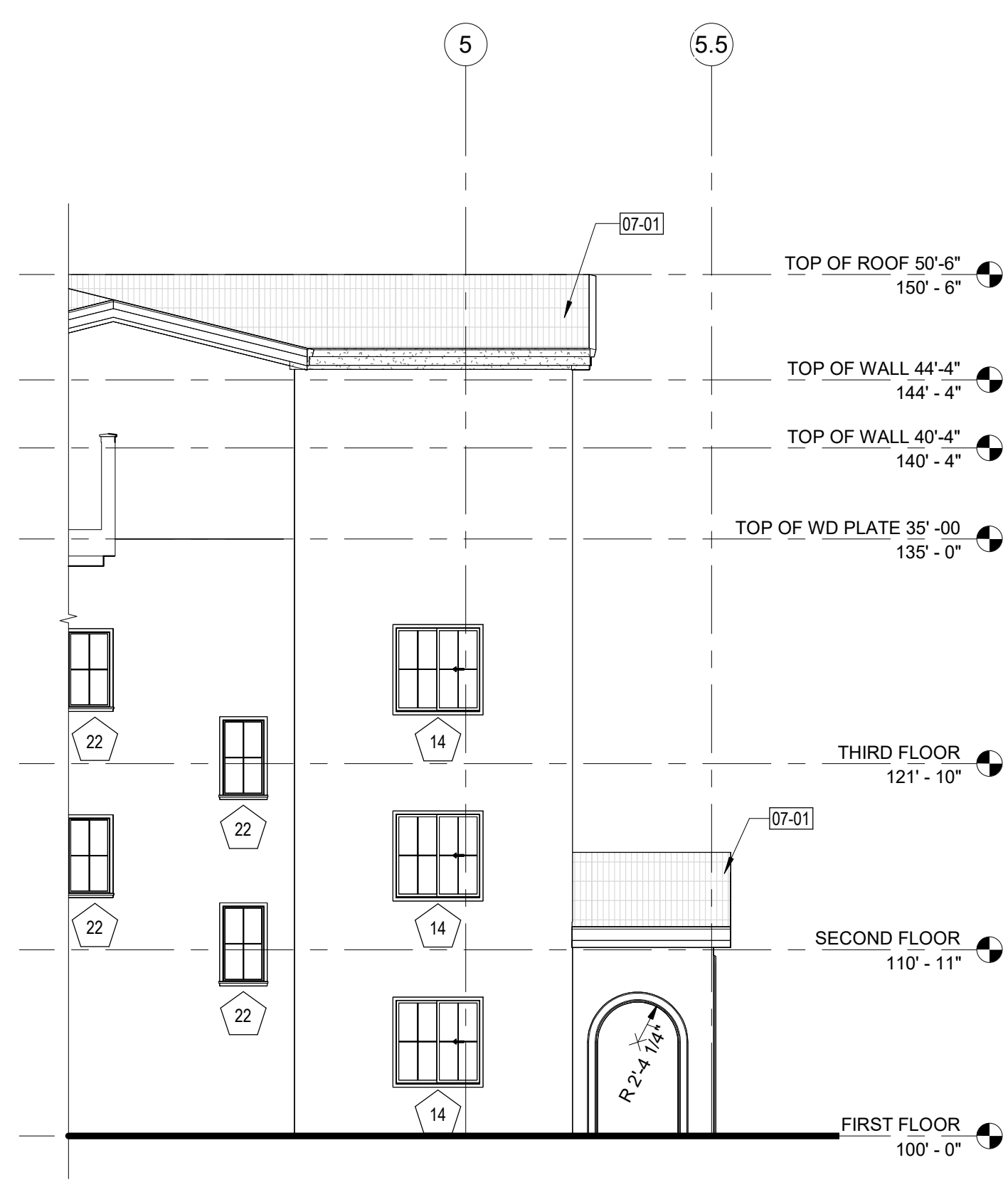
**KEYNOTES**

- 07-01 ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR. ROOF TRUSS. SEE STRUCTURAL
- 07-06 WALL SCUPPER, PAINT
- 09-03 CEMENT PLASTER OVER PREMOLDED FOAM PROFILE WALL TRIM, PAINTED
- 09-07 CEMENT PLASTER WALL CAP, PAINT



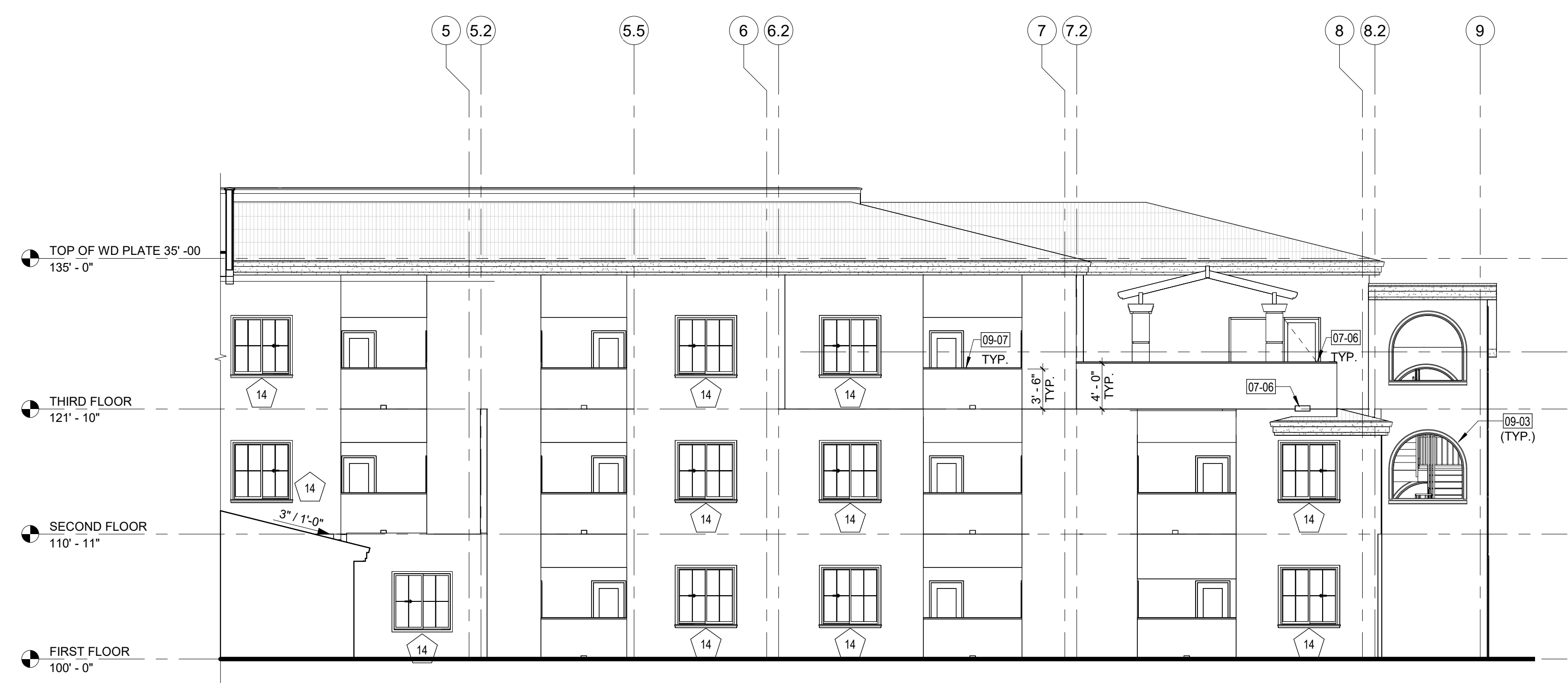
**5 PARTIAL EXTERIOR WEST ELEVATION**

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



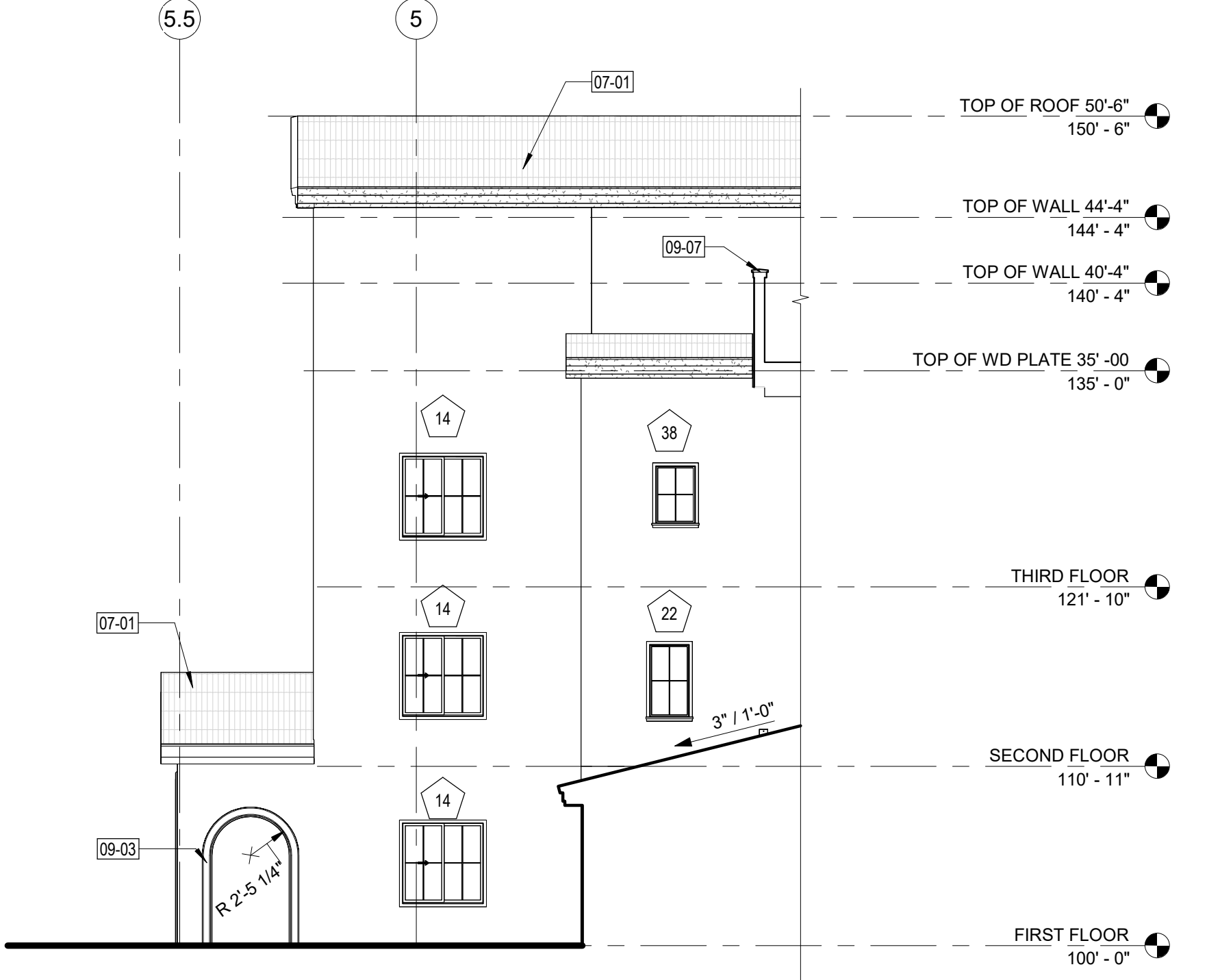
**6 PARTIAL EXTERIOR ELEVATION**

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



**8 PARTIAL EXTERIOR EAST ELEVATION**

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



**7 PARTIAL EXTERIOR ELEVATION**

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

**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

PROJECT:

SHEET TITLE:  
**PHASE II PARTIAL EXTERIOR ELEVATIONS**

**REVISIONS**

No.	Description	Date

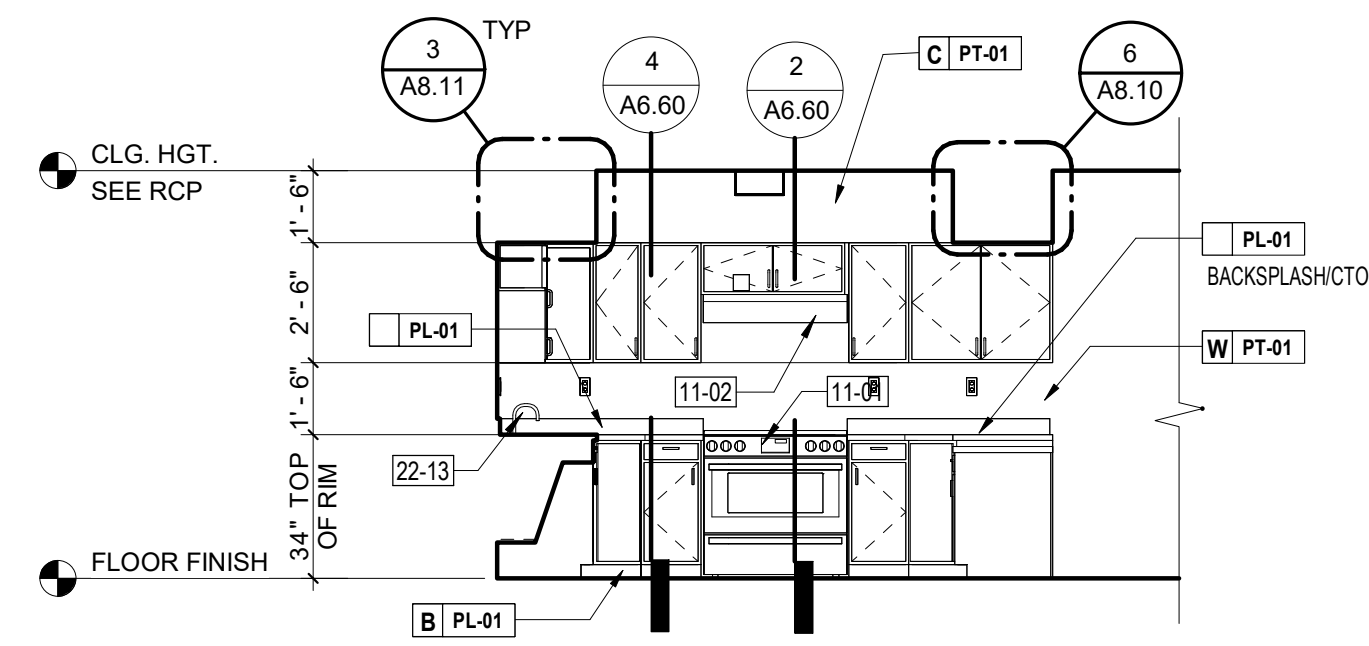
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DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET

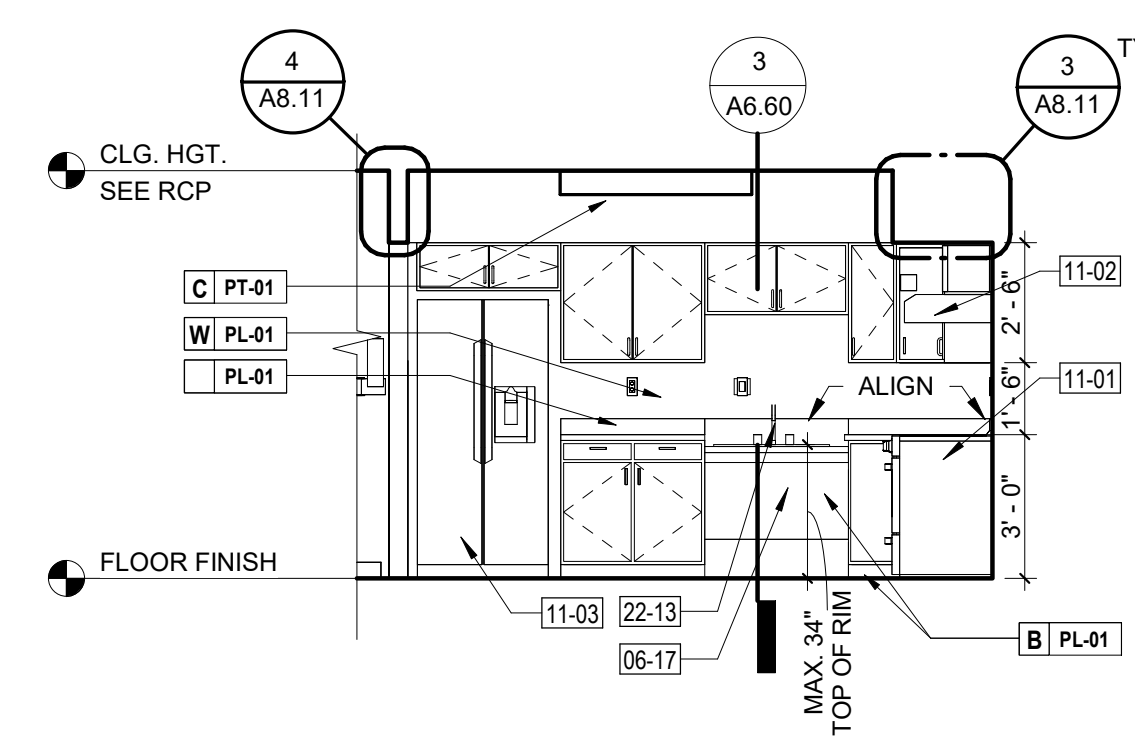
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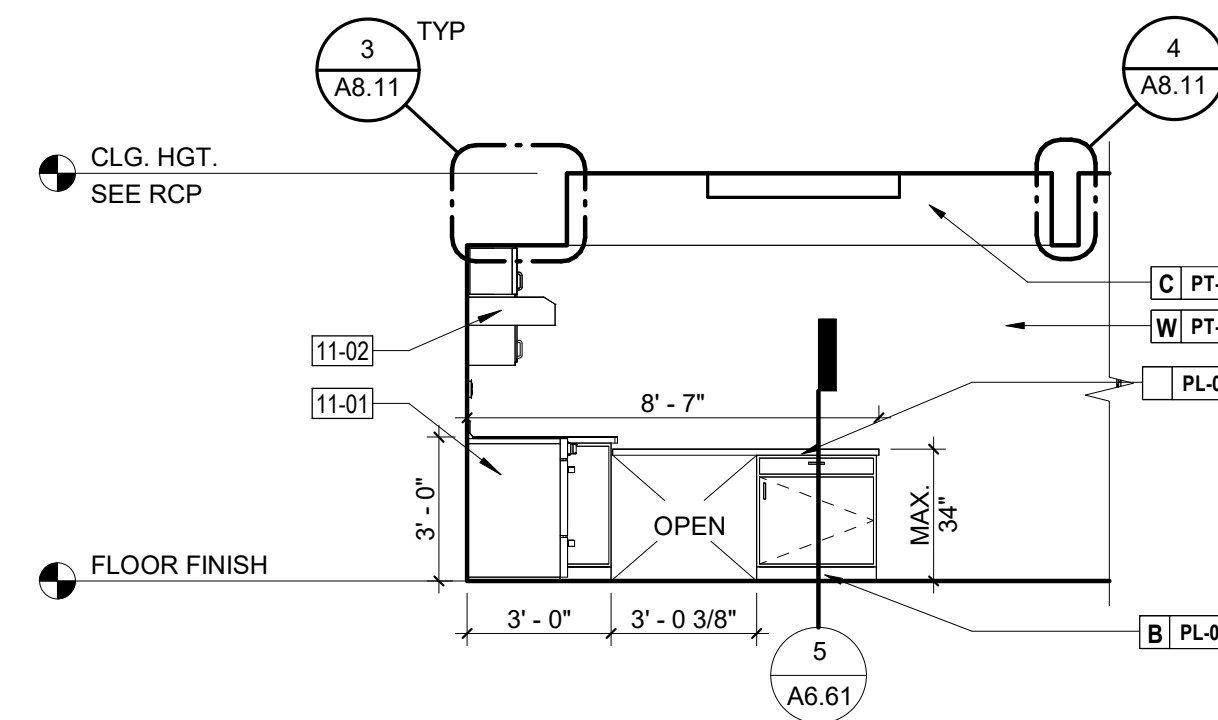
UNIT 1C TYPE A - KITCHEN



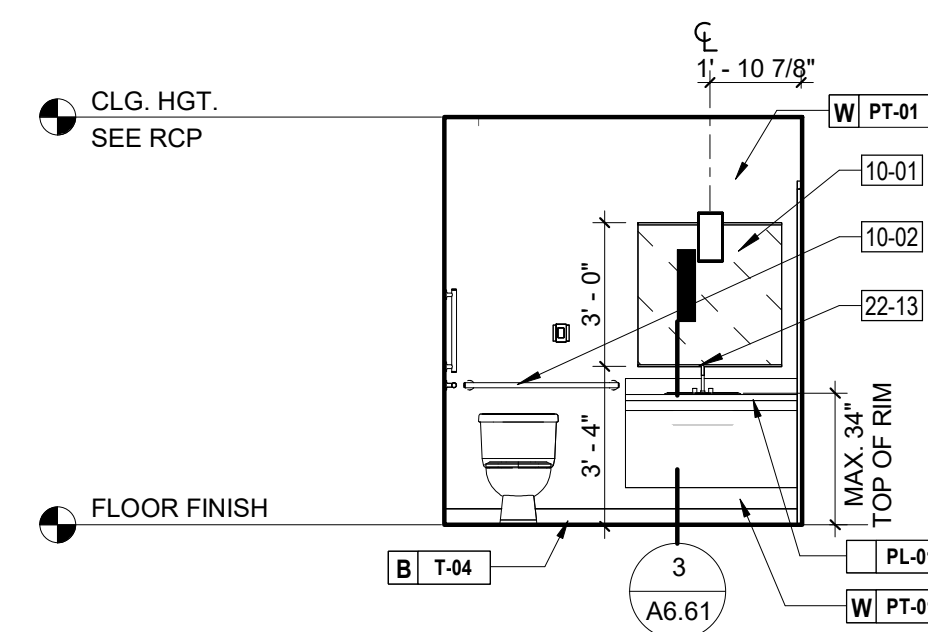
1 UNIT 1C TYPE A- KITCHEN STOVE  
SCALE: 1/4" = 1'-0"



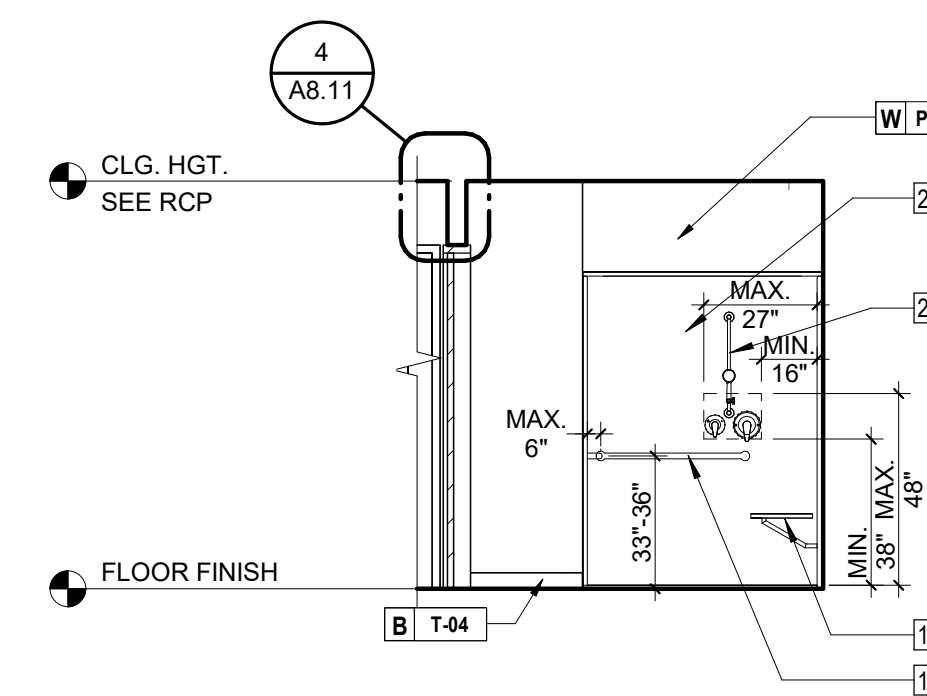
2 UNIT 1C TYPE A- KITCHEN SINK  
SCALE: 1/4" = 1'-0"



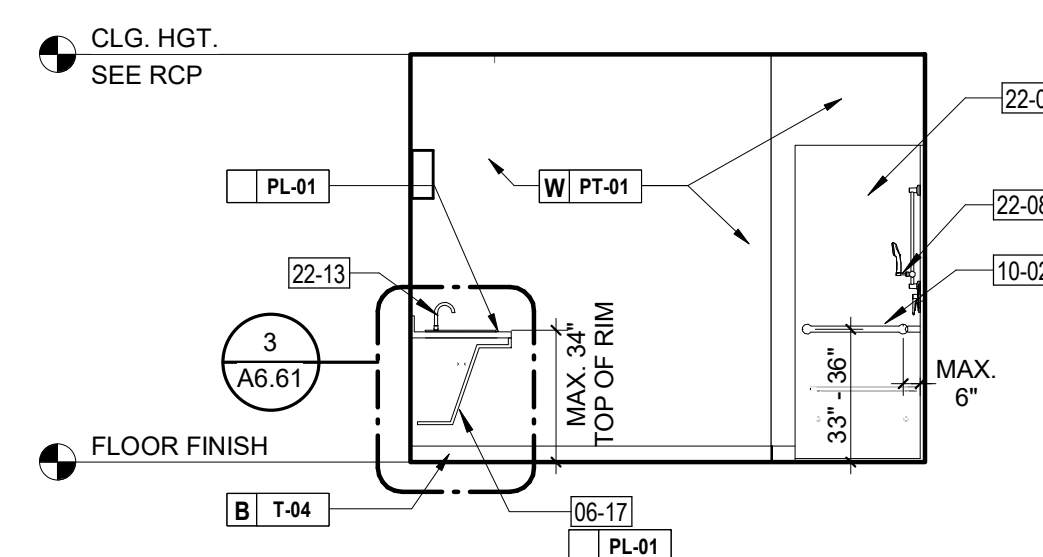
3 UNIT 1C TYPE A- KITCHEN COUNTER  
SCALE: 1/4" = 1'-0"



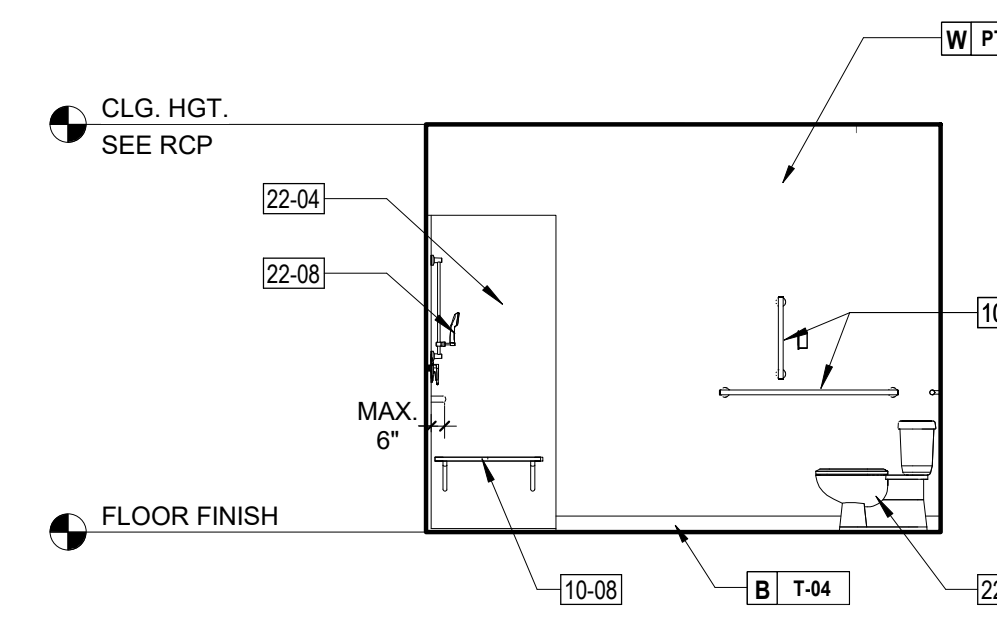
5 UNIT 1C/2E- TYPE A- BATHROOM SINK  
SCALE: 1/4" = 1'-0"



6 UNIT 1C/2E TYPE A- BATHROOM SHOWER  
SCALE: 1/4" = 1'-0"



7 UNIT 1C/2E TYPE A- BATHROOM SHOWER SIDE WALL  
SCALE: 1/4" = 1'-0"



8 UNIT 1C/2E TYPE A- BATHROOM SHOWER SEAT WALL  
SCALE: 1/4" = 1'-0"

ELEVATION GENERAL NOTES

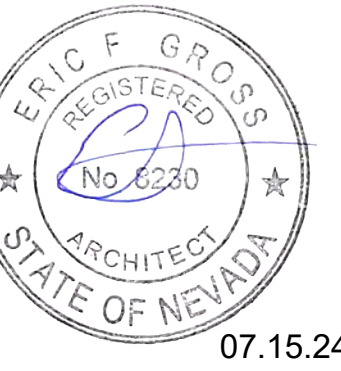
- CONTRACTOR TO VERIFY THAT ALL OPERABLE ELEMENTS ARE WITHIN THE DESIGNATED ADA REACH RANGES PER THE LATEST CODE COMPLIANCES.
- CONTRACTOR TO VERIFY THAT ALL RECESSED ELEMENTS TO BE PLACED WITHOUT INTERFERENCE FROM ALL OTHER BUILDING ELEMENTS (I.E. STRUCTURAL, MECHANICAL, ETC.) PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY THAT ALL REQUIRED BACKING AND/OR BRACING IS INSTALLED PER MANUFACTURER REQUIREMENTS OR DETAILS PROVIDED.
- CONTRACTOR TO ENSURE THAT ALL LIGHT SHIELDING IS INSTALLED TO MEET MANUFACTURER AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.

KEYNOTES

06-17	ANGLED PANEL, SEE INTERIOR ELEVATION
10-01	LAVATORY MIRROR
10-02	ADA VERTICAL AND HORIZONTAL GRAB BARS, PROVIDE BACKING AS REQUIRED
10-08	SHOWER SEAT
11-01	RANGE, SEE ELECTRICAL
11-02	RANGE HOOD, GO TO PROVIDE ELECTRICAL POWER SUPPLY AND A REQUIRED EXHAUST VENTILATION.
11-03	REFRIGERATOR, GO TO PROVIDE ELECTRICAL POWER SUPPLY, SEE ELECTRICAL DRAWINGS
22-04	ROLL-IN SHOWER ASSEMBLY, SEE PLUMBING DRAWINGS
22-08	HANDHELD SHOWER, SEE PLUMBING DRAWINGS
22-13	FAUCET, SEE PLUMBING DRAWINGS
22-15	WATER CLOSET, SEE PLUMBING DRAWINGS



5195 S. Durango Drive  
Suite #103  
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Office: 702.888.2088  
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PROJECT:  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
INTERIOR ELEVATIONS - TYPICAL UNIT

REVISIONS		
No.	Description	Date

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
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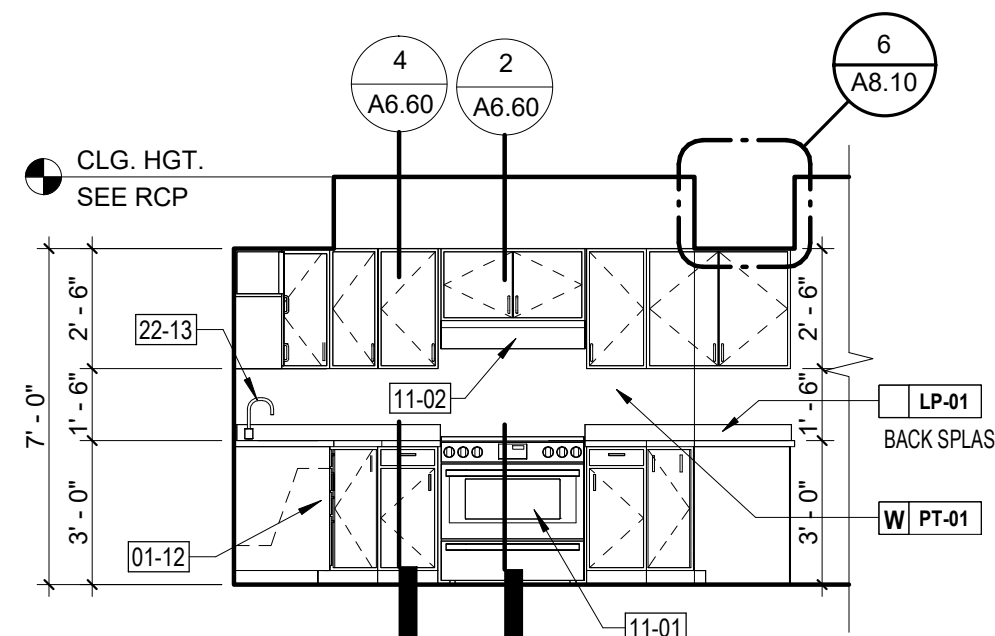
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A6.50



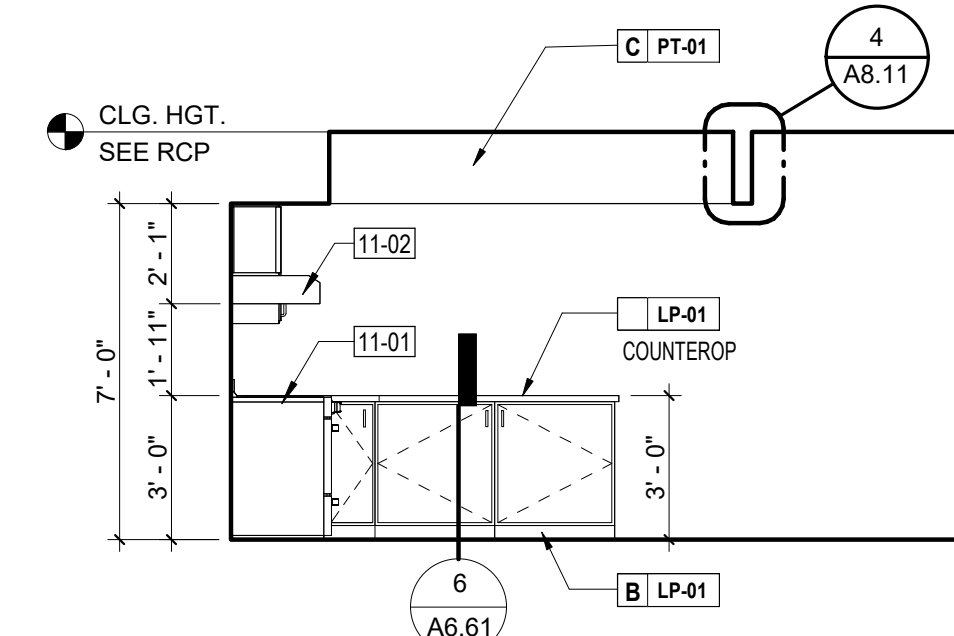
3D VIEW UNIT 1A TYPE - KITCHEN



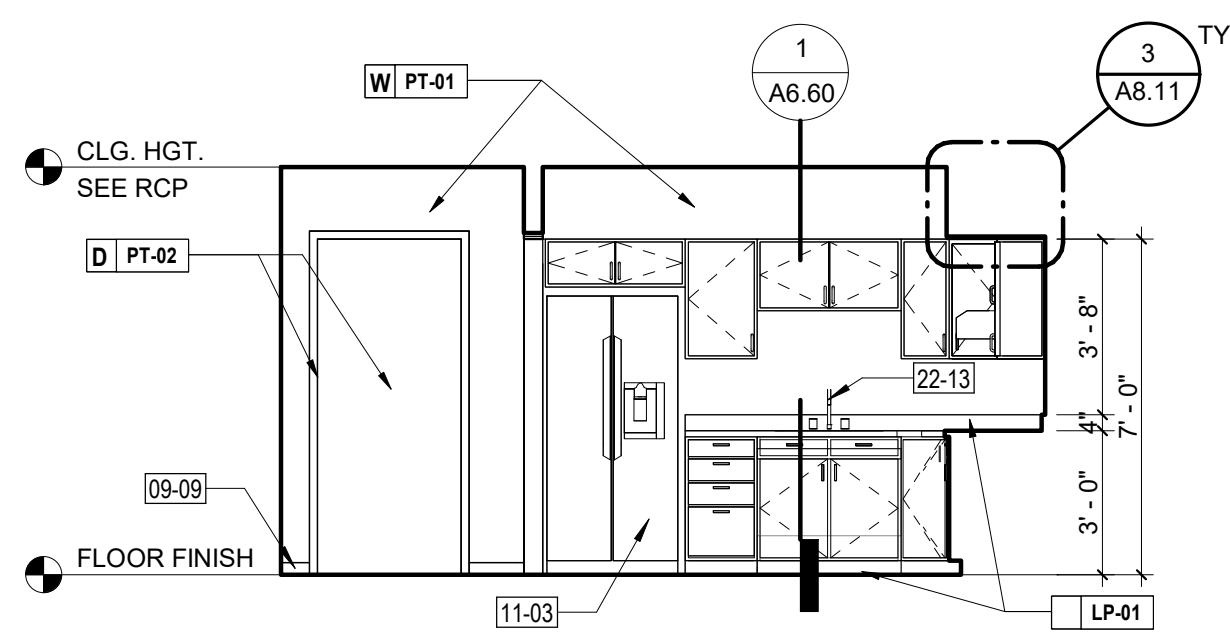
3D VIEW UNIT 1B TYPE B - KITCHEN



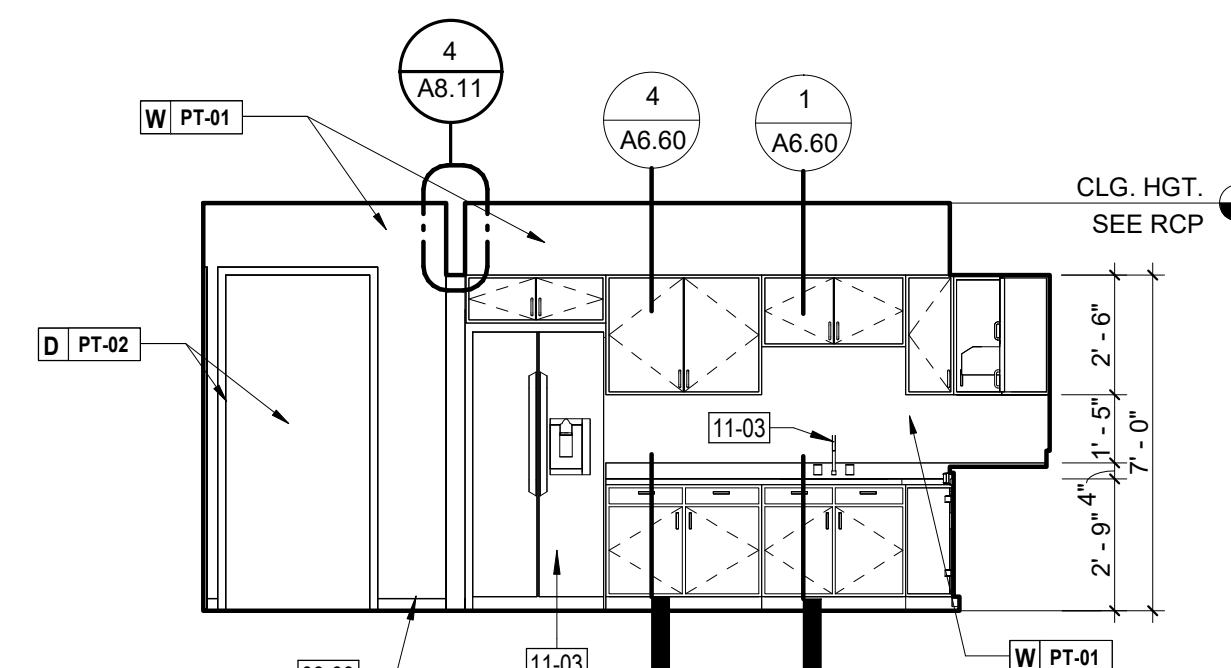
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SCALE: 1/4" = 1'-0"



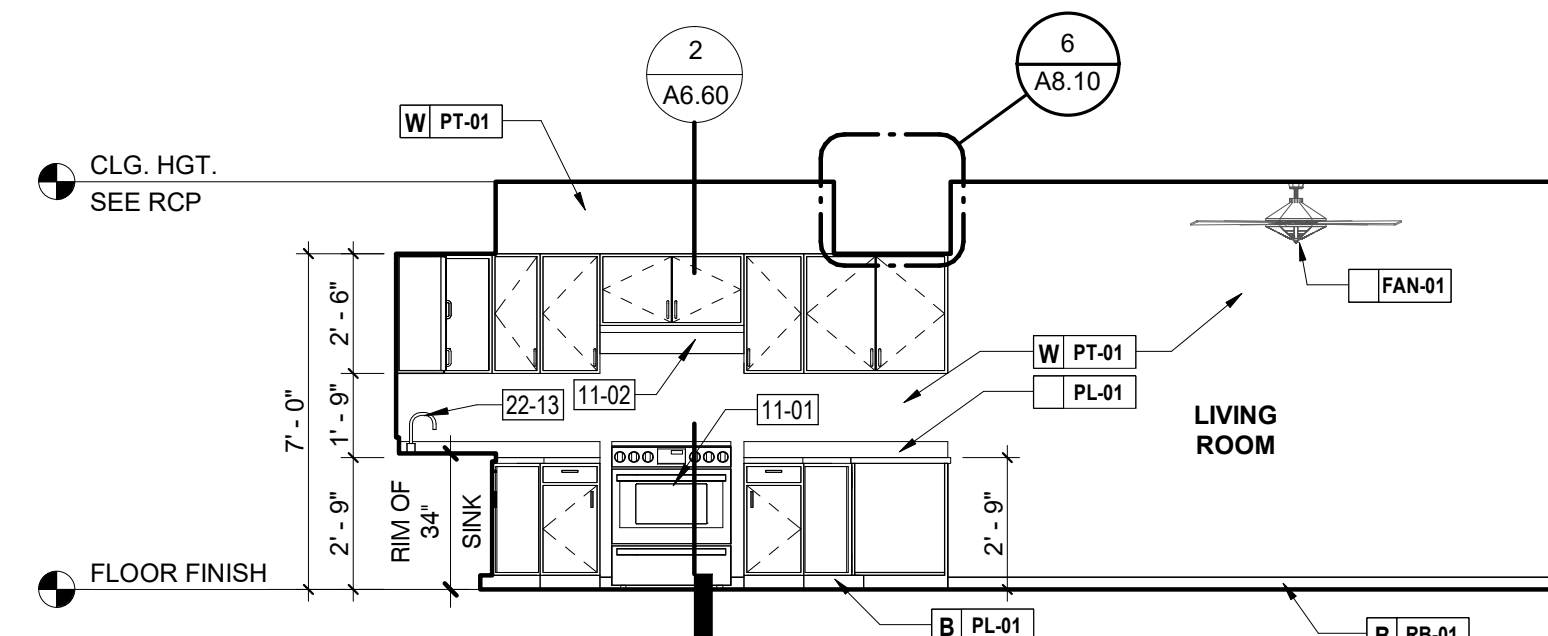
2 UNIT 1A TYPE B-KITCHEN COUNTER  
SCALE: 1/4" = 1'-0"



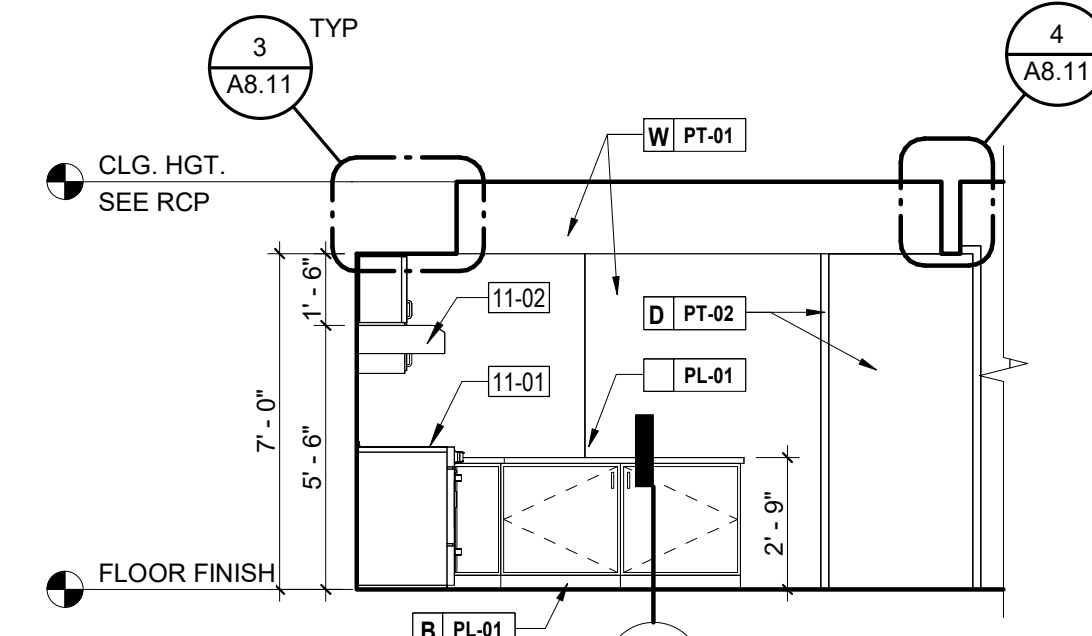
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SCALE: 1/4" = 1'-0"



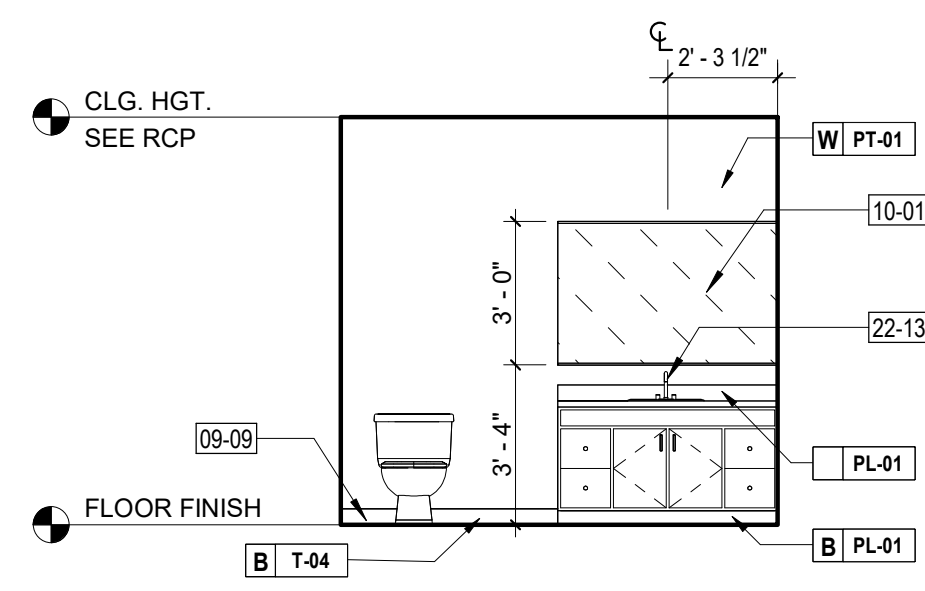
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SCALE: 1/4" = 1'-0"



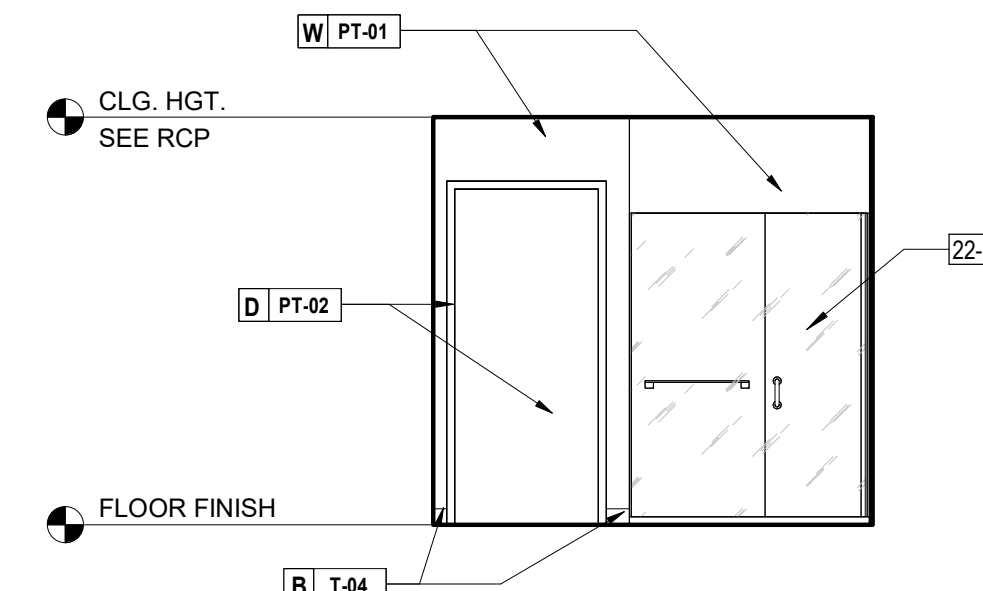
5 UNIT 1B TYPE B- KITCHEN STOVE  
SCALE: 1/4" = 1'-0"



6 UNIT 1B TYPE B- KITCHEN COUNTER  
SCALE: 1/4" = 1'-0"



7 UNIT 1A/ 1B- TYPE B- BATHROOM SINK  
SCALE: 1/4" = 1'-0"



8 UNIT 1A/ 1B- TYPE B-BATHROOM SHOWER  
SCALE: 1/4" = 1'-0"

ELEVATION GENERAL NOTES

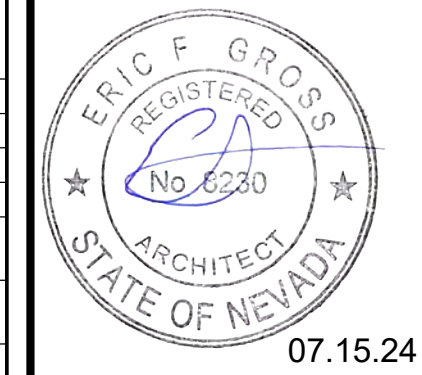
1. CONTRACTOR TO VERIFY THAT ALL OPERABLE ELEMENTS ARE WITHIN THE DESIGNATED ADA REACH RANGES PER THE LATEST CODE COMPLIANCES.
2. CONTRACTOR TO VERIFY THAT ALL RECESSED ELEMENTS TO BE PLACED WITHOUT INTERFERENCE FROM ALL OTHER BUILDING ELEMENTS (I.E. STRUCTURAL, MECHANICAL, ETC.) PRIOR TO INSTALLATION.
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4. CONTRACTOR TO ENSURE THAT ALL LIGHT SHIELDING IS INSTALLED TO MEET MANUFACTURER AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.

KEYNOTES

- 01-12 KNEE SPACE
- 09-09 BASEBOARD, SEE ROOM FINISH SCHEDULE
- 10-01 LAVATORY MIRROR
- 11-01 RANGE, SEE ELECTRICAL
- 11-02 RANGE HOOD, GC TO PROVIDE ELECTRICAL POWER SUPPLY AND A REQUIRED EXHAUST VENTILATION.
- 11-03 REFRIGERATOR, GC TO PROVIDE ELECTRICAL POWER SUPPLY. SEE ELECTRICAL DRAWINGS
- 22-13 FAUCET, SEE PLUMBING DRAWINGS
- 22-14 SHOWER ENCLOSURE ASSEMBLY



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Suite #103  
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PROJECT:  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
INTERIOR ELEVATIONS - TYPICAL UNIT

REVISIONS

No.	Description	Date

DRAWN BY: Author  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET

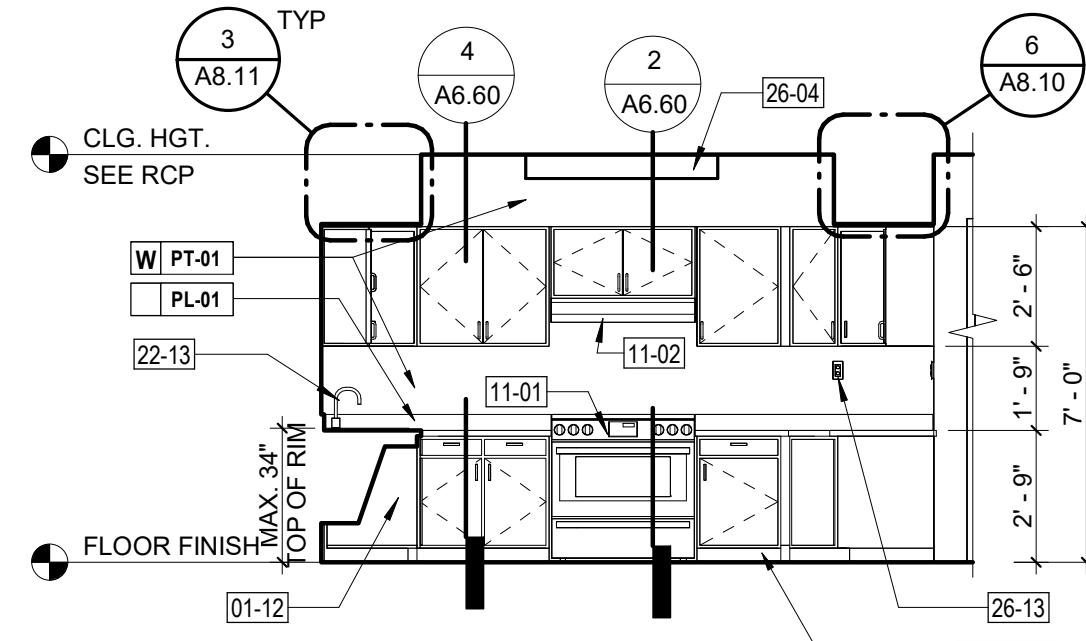
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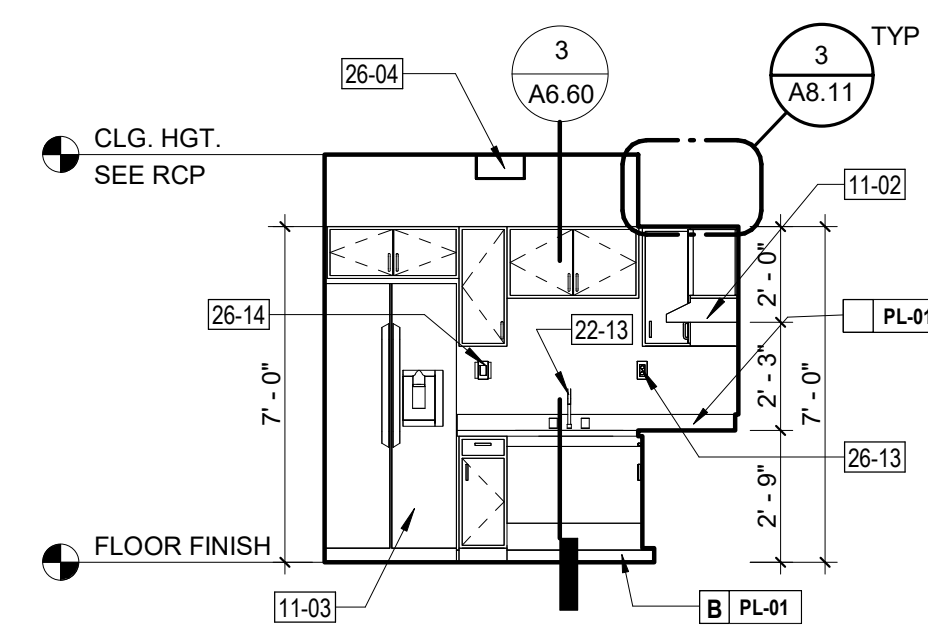
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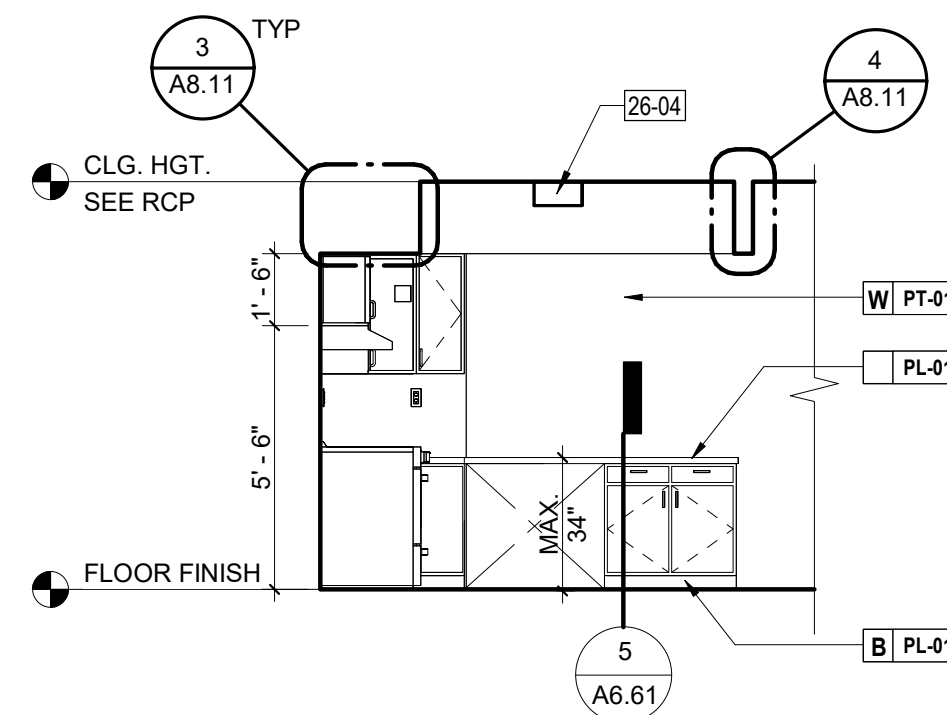
3D VIEW UNIT 2D - KITCHEN



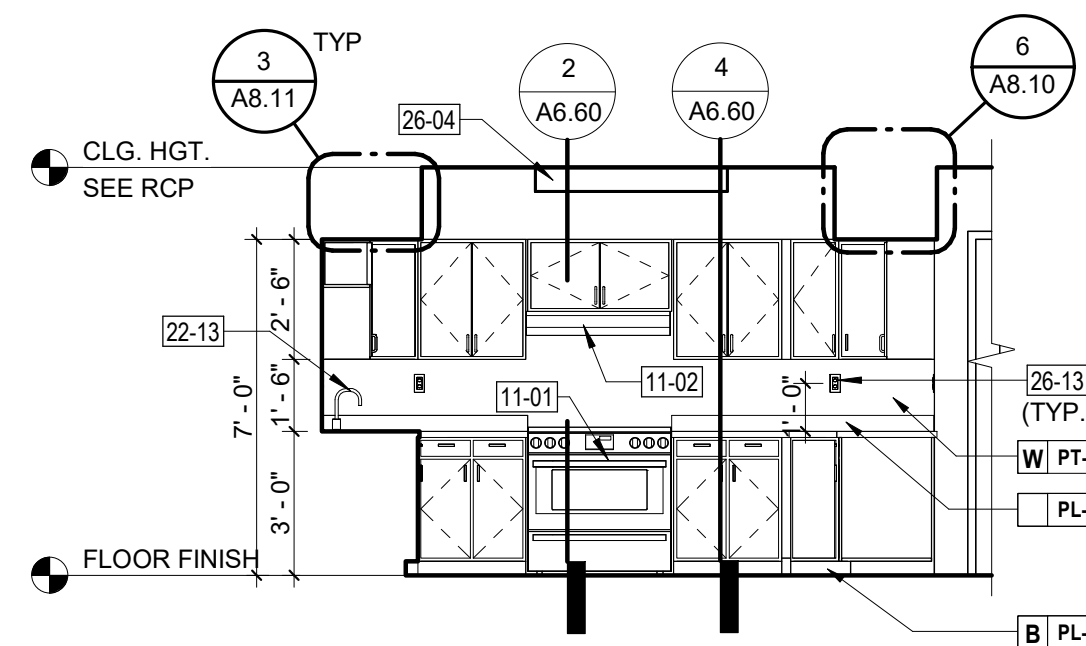
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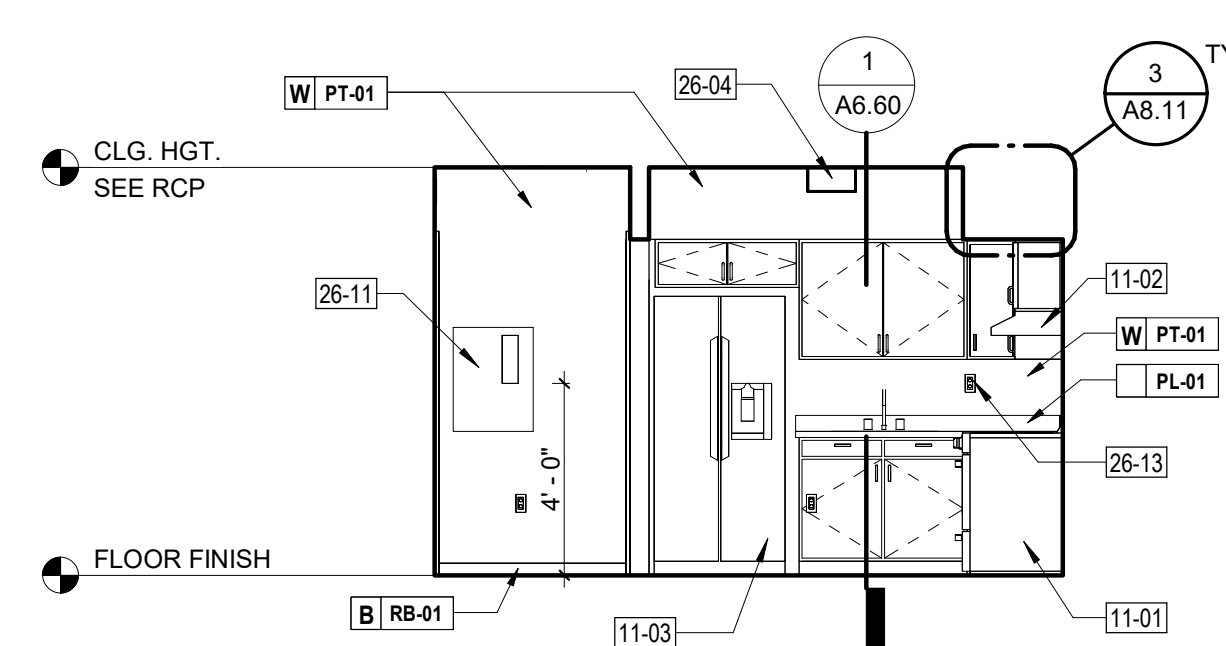
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SCALE: 1/4" = 1'-0"



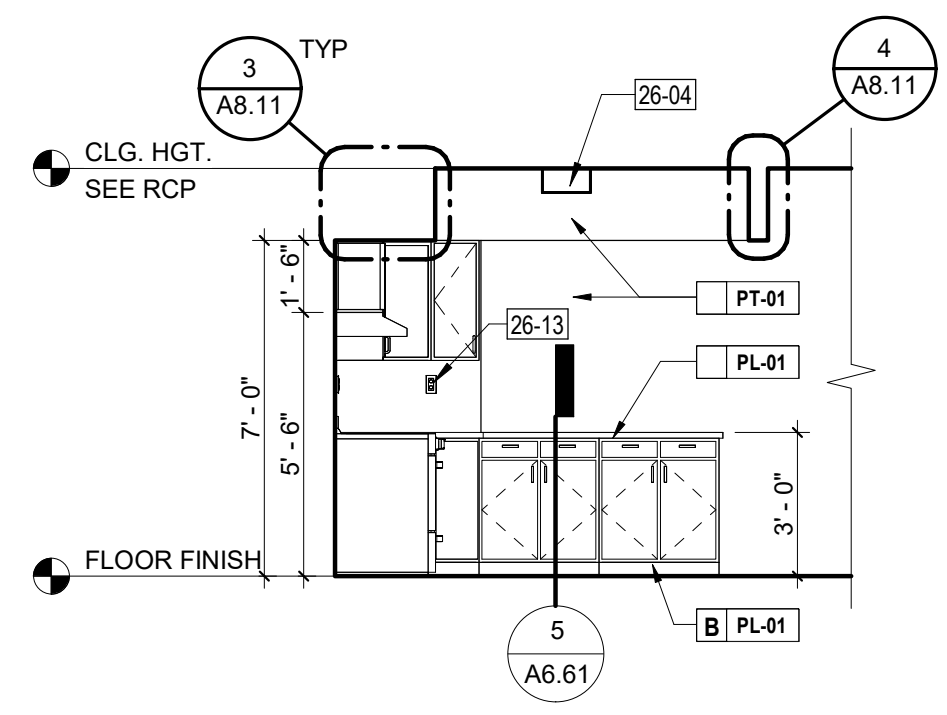
3 UNIT 2E TYPE A- KITCHEN COUNTER  
SCALE: 1/4" = 1'-0"



5 UNIT 2D- TPE B- KITCHEN STOVE  
SCALE: 1/4" = 1'-0"



6 UNIT 2D- TPE B- KITCHEN SINK  
SCALE: 1/4" = 1'-0"



7 UNIT 2D- TPE B- KITCHEN COUNTER  
SCALE: 1/4" = 1'-0"

ELEVATION GENERAL NOTES

1. CONTRACTOR TO VERIFY THAT ALL OPERABLE ELEMENTS ARE WITHIN THE DESIGNATED ADA REACH RANGES PER THE LATEST CODE COMPLIANCES.
2. CONTRACTOR TO VERIFY THAT ALL RECESSED ELEMENTS TO BE PLACED WITHOUT INTERFERENCE FROM ALL OTHER BUILDING ELEMENTS (I.E. STRUCTURAL, MECHANICAL, ETC.) PRIOR TO INSTALLATION.
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KEYNOTES

01-12	KNEE SPACE
11-01	RANGE, SEE ELECTRICAL
11-02	RANGE HOOD, GC TO PROVIDE ELECTRICAL POWER SUPPLY AND A REQUIRED EXHAUST VENTILATION.
11-03	REFRIGERATOR, GC TO PROVIDE ELECTRICAL POWER SUPPLY, SEE ELECTRICAL DRAWINGS
22-13	FAUCET, SEE PLUMBING DRAWINGS
23-06	THERMOSTAT, SEE MECHANICAL DRAWINGS
26-04	SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
26-11	ELECTRIC PANEL, SEE ELECTRICAL DRAWINGS
26-13	WALL RECEPTACLE, SEE ELECTRICAL DRAWINGS
26-14	SWITCH POWER, SEE ELECTRICAL DRAWINGS



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Suite #103  
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PROJECT:  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
INTERIOR ELEVATIONS - TYPICAL UNIT

REVISIONS

No.	Description	Date

DRAWN BY: Author  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET

A6.52

1

2

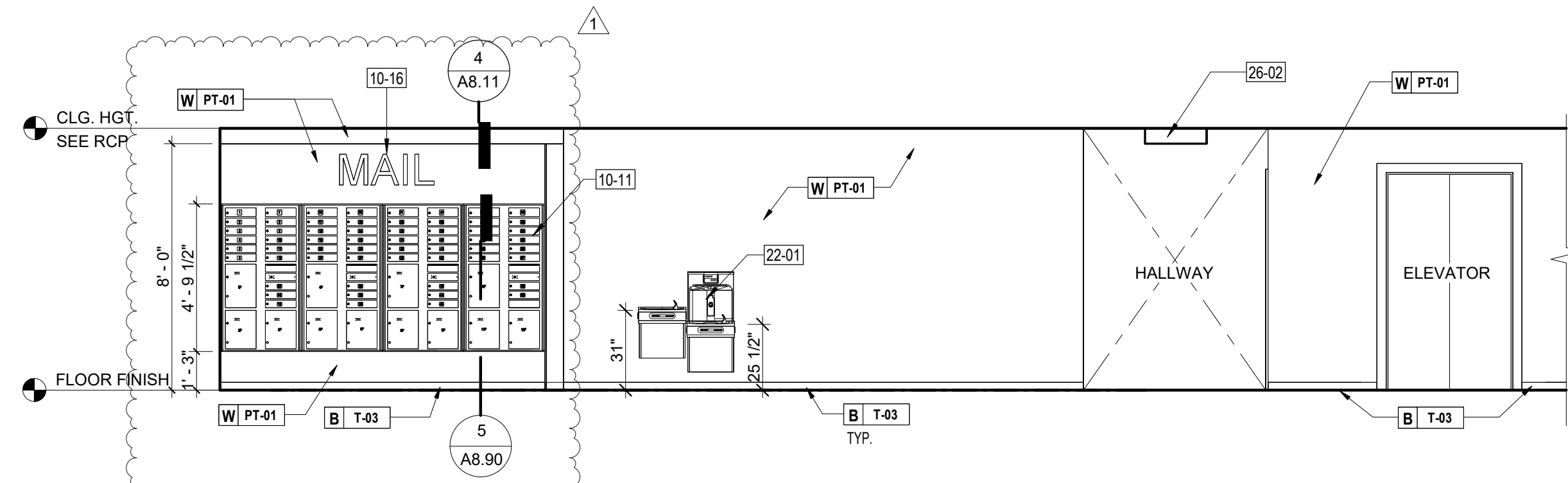
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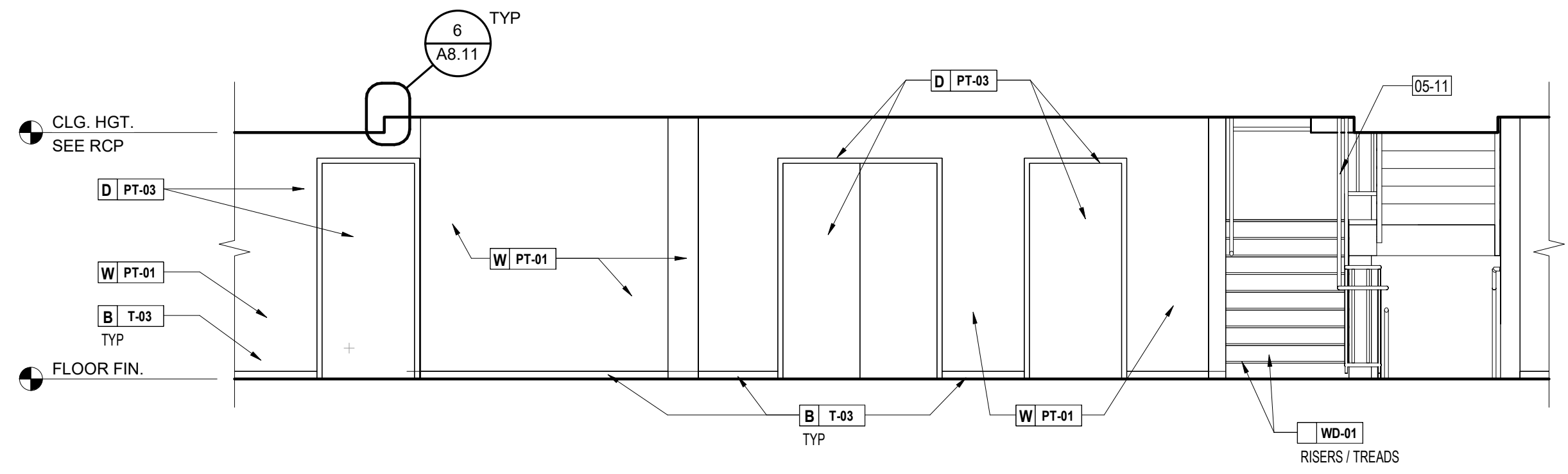
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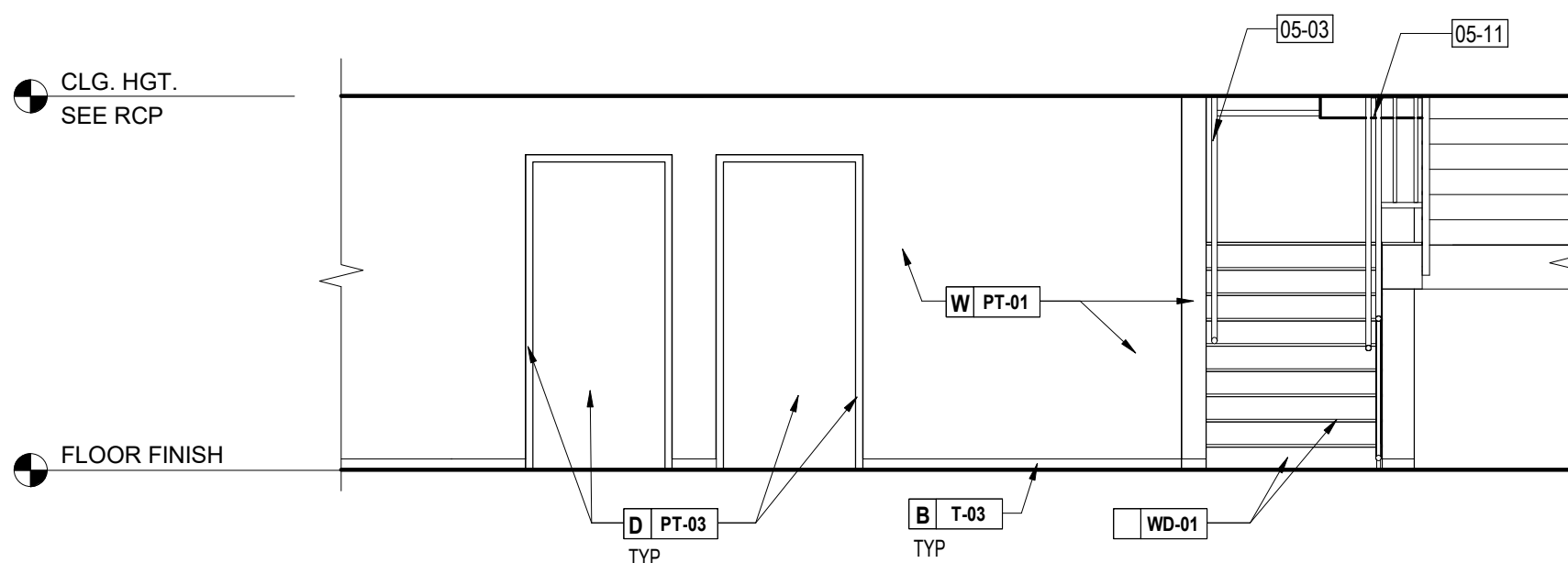
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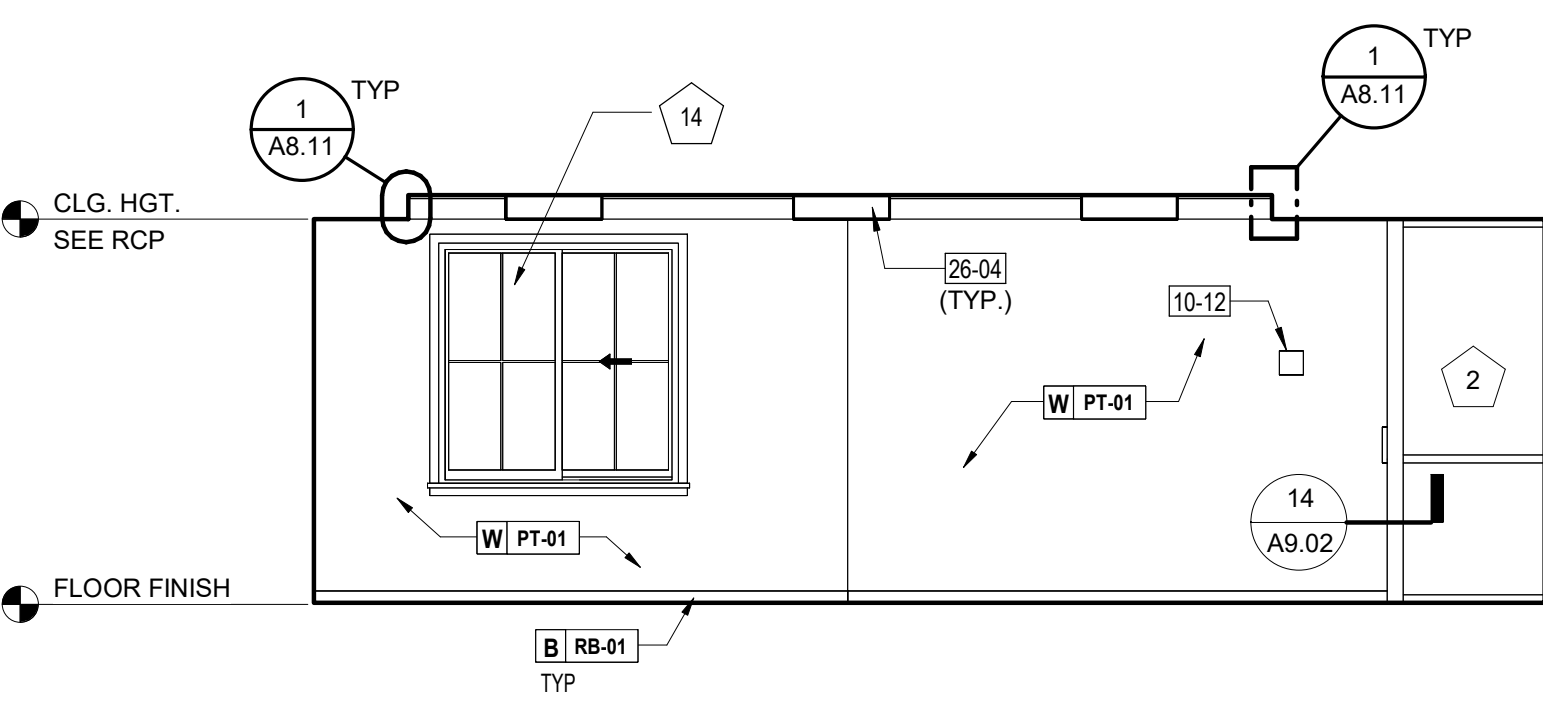
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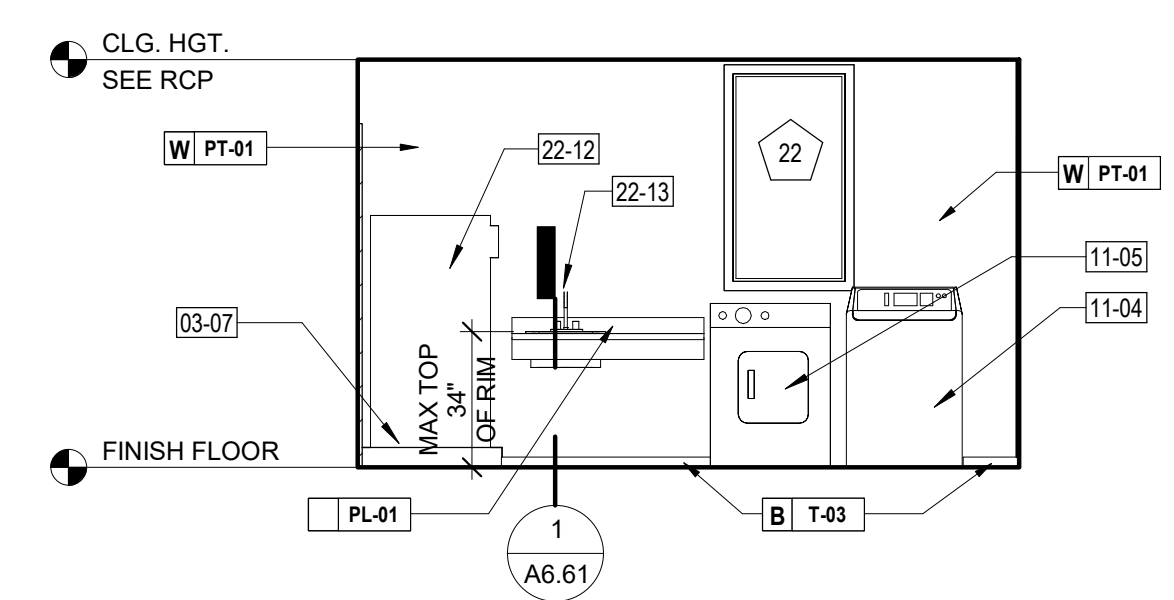
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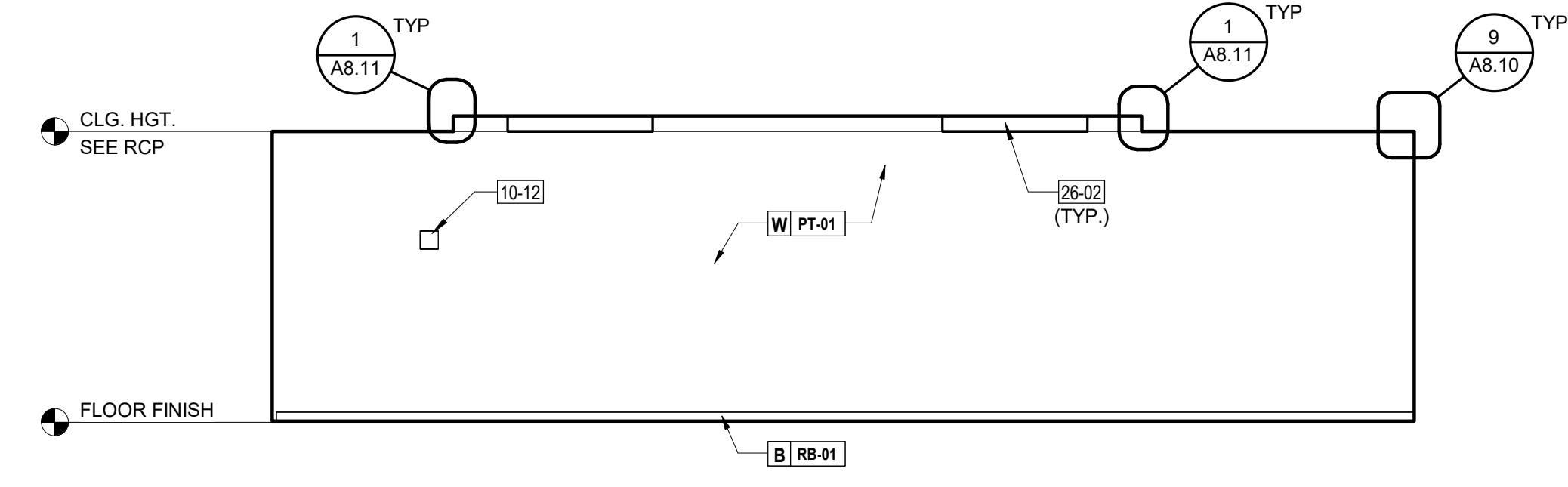
3 LOBBY E2  
SCALE: 1/4" = 1'-0"



5 COMMUNITY ROOM  
SCALE: 1/4" = 1'-0"



4 LAUNDRY ELEVATION - TYPICAL  
SCALE: 1/4" = 1'-0"



6 COMMUNITY ROOM  
SCALE: 1/4" = 1'-0"

**ELEVATION GENERAL NOTES**

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**KEYNOTES**

- 03-07 5" CONCRETE PAD FOR EWH
- 05-03 1-1/2" O.D. WALL MOUNT HANDRAIL WITH WALL MOUNTING BRACKET AT 4'-0" O.C. PAINTED
- 05-11 1-1/2" O.D. POST MOUNT TO TREAD/FLOOR HANDRAIL WITH POST MOUNTING BRACKET AT 4'-0" O.C. PAINTED
- 10-11 MAIL BOX
- 10-12 MAXIMUM OCCUPANCY SIGNAGE
- 10-16 MAIL LETTERING BRONZE FINISH
- 11-04 WASHING MACHINE
- 11-05 DRYER, SEE ELECTRICAL
- 22-01 DRINKING FOUNTAIN, PROVIDE MOUNTING BACKING AS REQUIRED. SEE PLUMBING DRAWINGS
- 22-12 ELECTRIC WATER HEATER, PROVIDE CONCRETE PAD AS REQUIRED. SEE PLUMBING DRAWINGS
- 22-13 FAUCET, SEE PLUMBING DRAWINGS
- 23-06 THERMOSTAT, SEE MECHANICAL DRAWINGS
- 26-02 RECESSED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- 26-04 SURFACE MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

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Suite #103  
Las Vegas, NV 89113

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Fax: 702.888.2089  
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REGISTERED ARCHITECT  
STATE OF NEVADA  
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**SNRHA BENNETT PLAZA PHASE II**  
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PROJECT:

SHEET TITLE:  
**INTERIOR ELEVATIONS - COMMON AREAS**

No.	Description	Date
1	CLV.COM.	6/21/24

DRAWN BY: Author  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**A6.53**

D

C

B

A

ELEVATION GENERAL NOTES

1. CONTRACTOR TO VERIFY THAT ALL OPERABLE ELEMENTS ARE WITHIN THE DESIGNATED ADA REACH RANGES PER THE LATEST CODE COMPLIANCES.
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SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

PROJECT:

SHEET TITLE:  
TYPICAL CABINET DETAILS

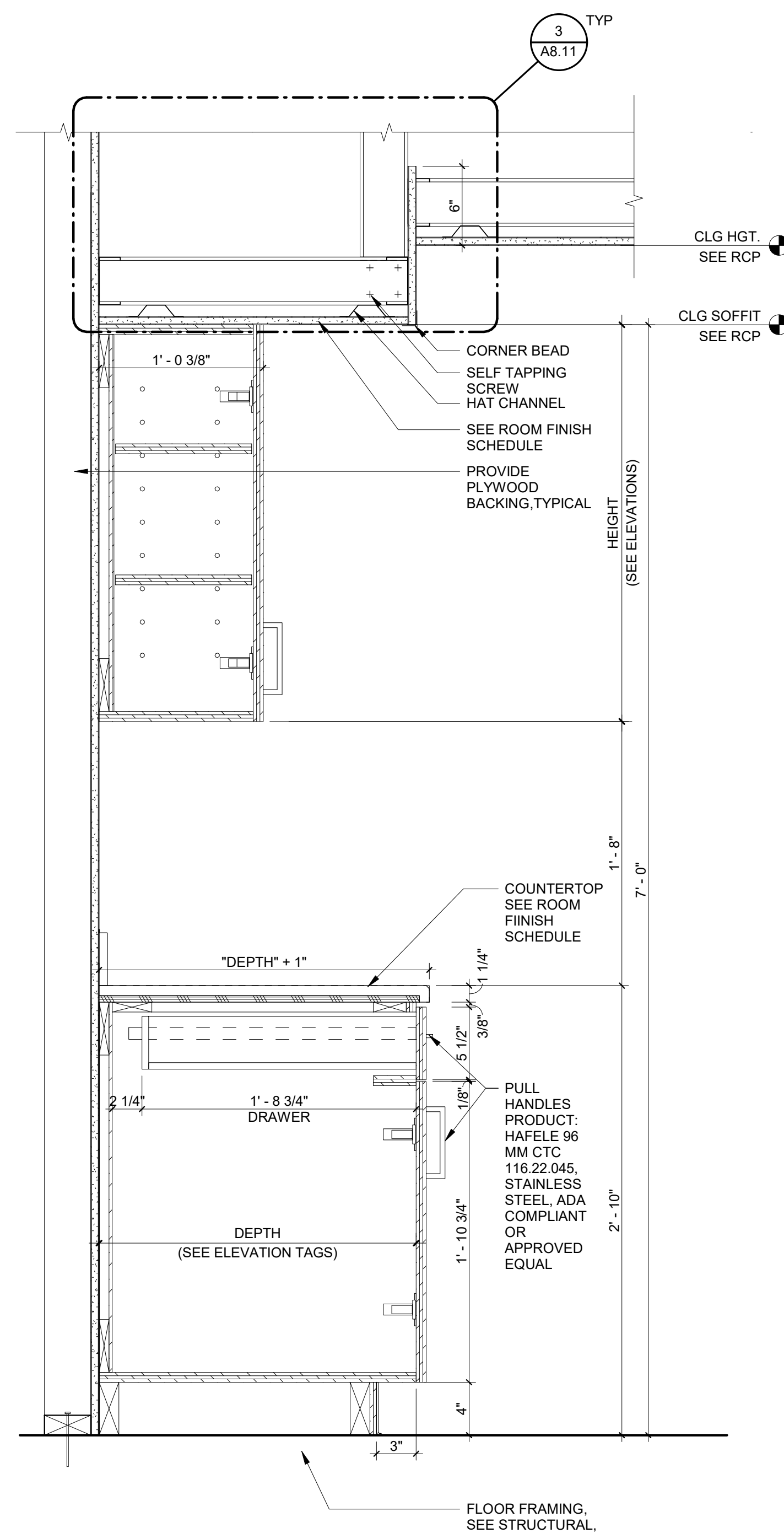
REVISIONS

No.	Description	Date

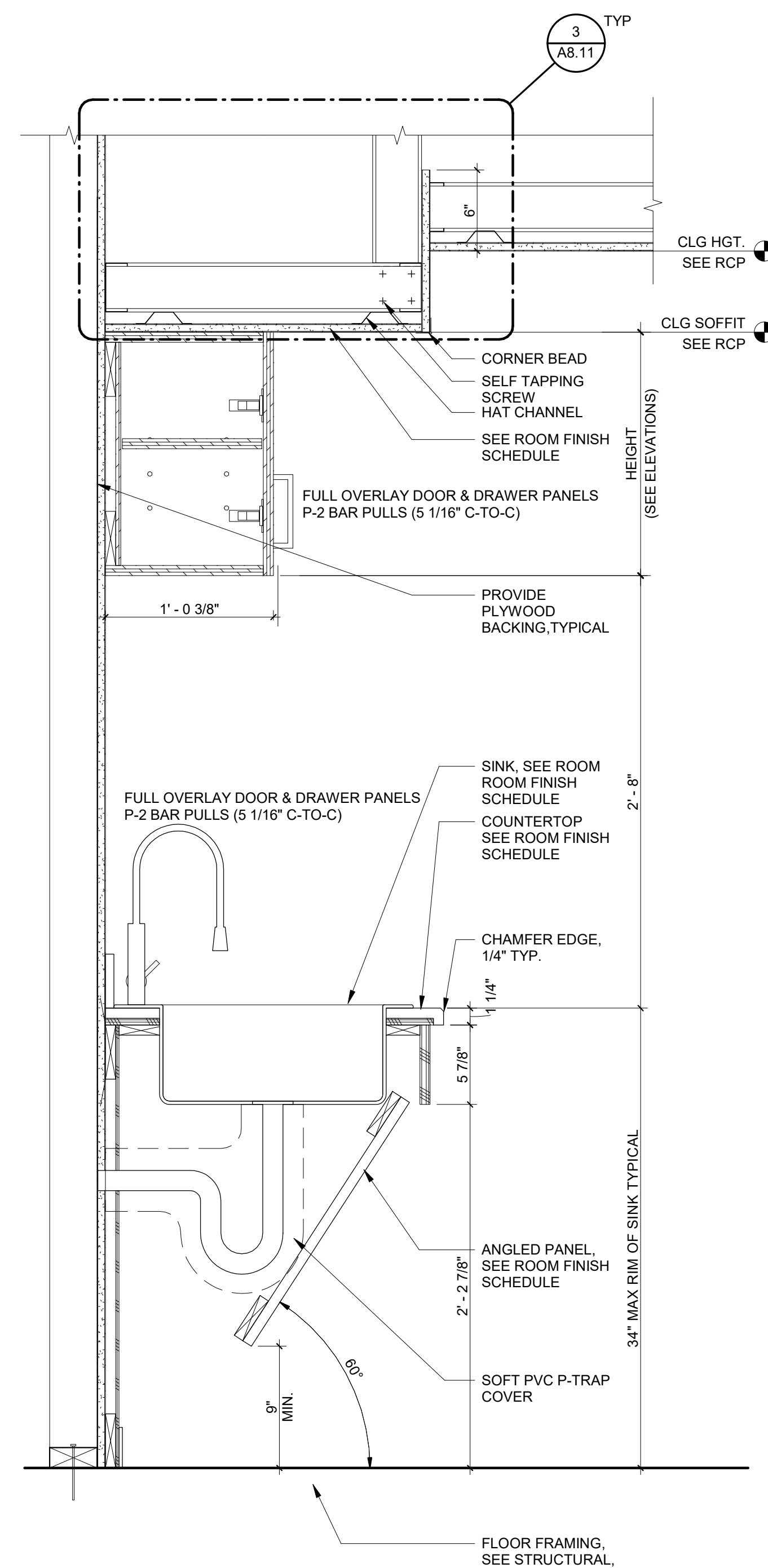
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SHEET

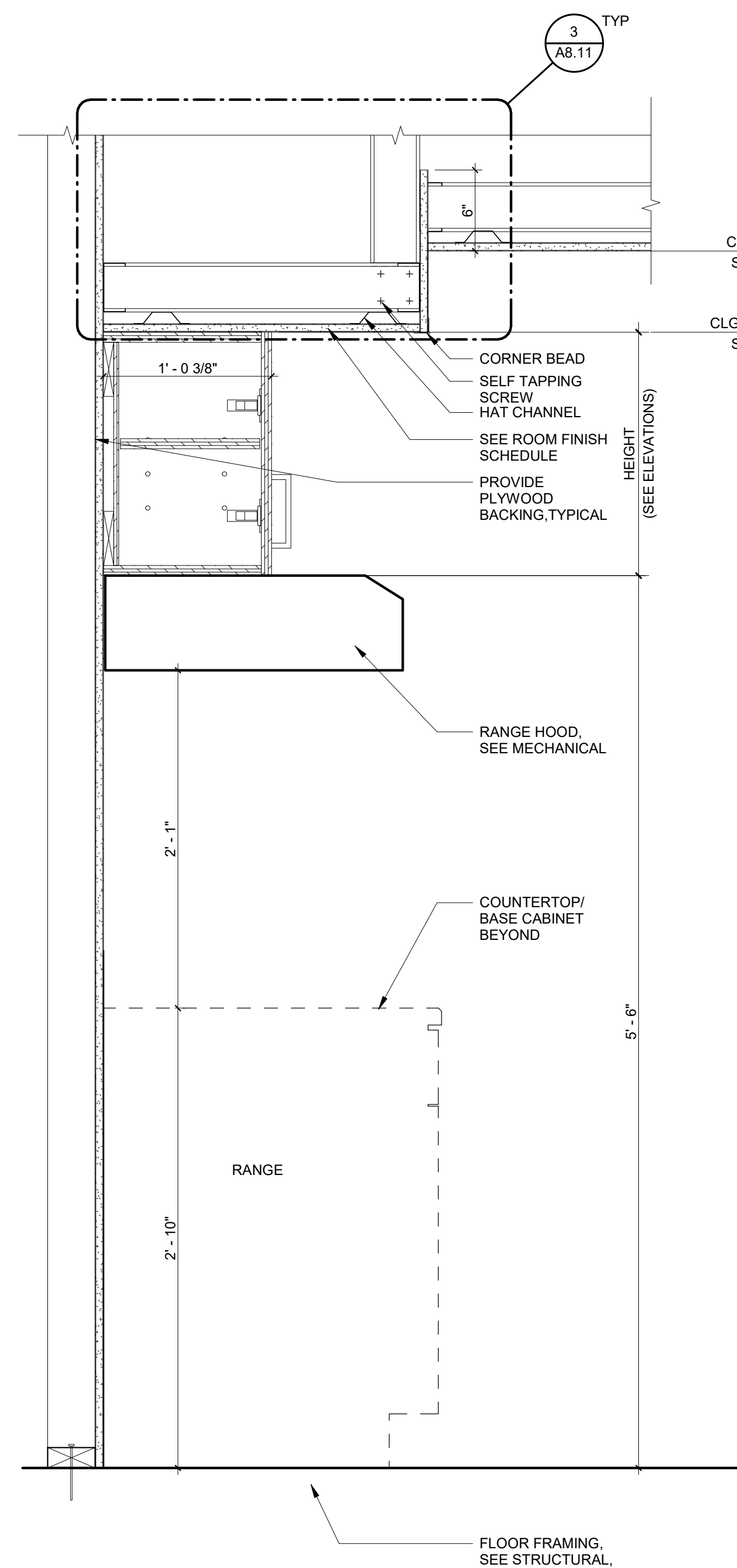
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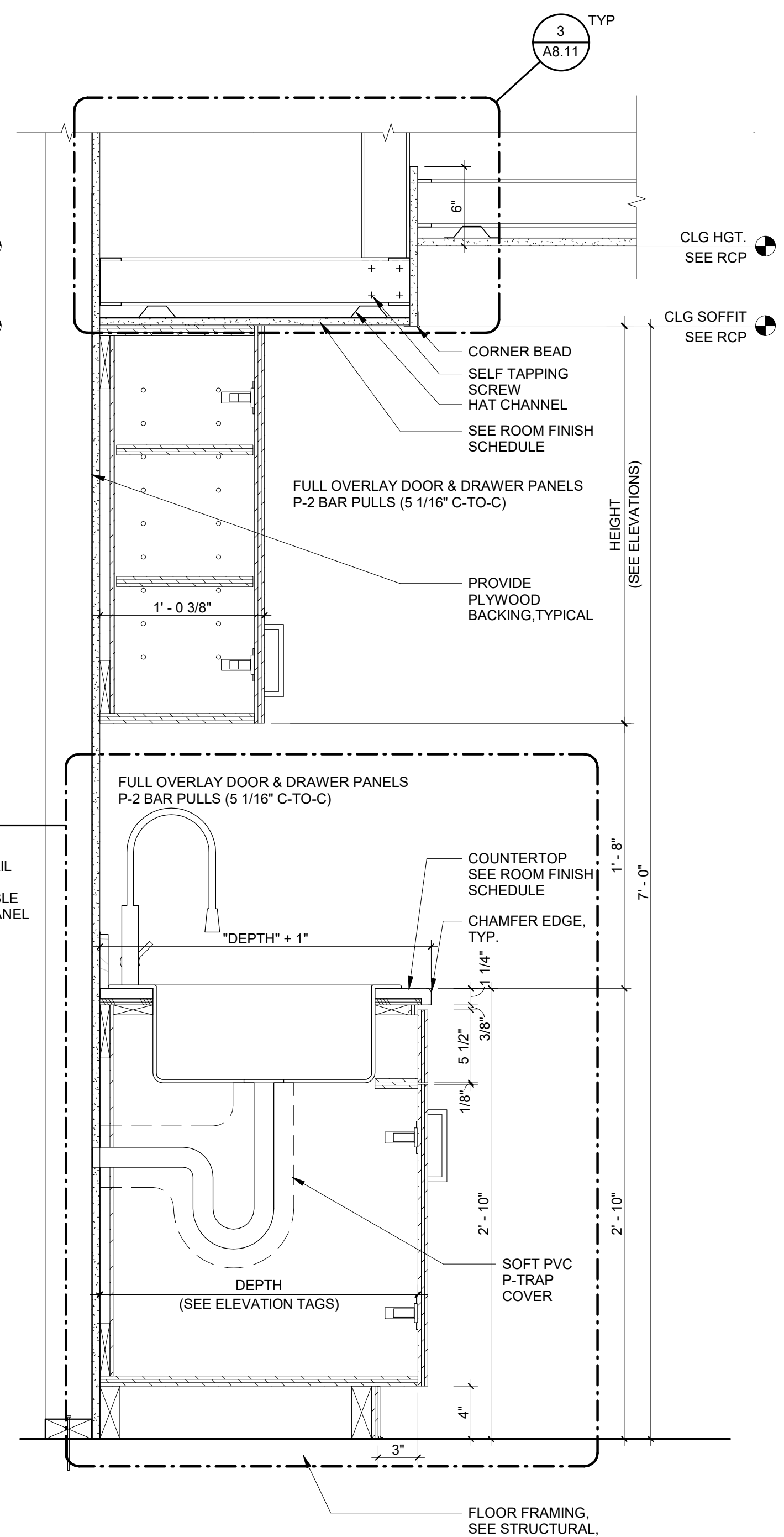
4 TYPICAL KITCHEN CABINET WITH DRAWER  
SCALE: 1 1/2" = 1'-0"



3 TYPICAL KITCHEN CABINET ACCESSIBLE  
SCALE: 1 1/2" = 1'-0"



2 TYPICAL KITCHEN CABINET AT RANGE/HOOD  
SCALE: 1 1/2" = 1'-0"



1 TYPICAL KITCHEN CABINET AT SINK  
SCALE: 1 1/2" = 1'-0"

ELEVATION GENERAL NOTES

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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT:

SHEET TITLE:  
**TYPICAL CASEWORK DETAILS**

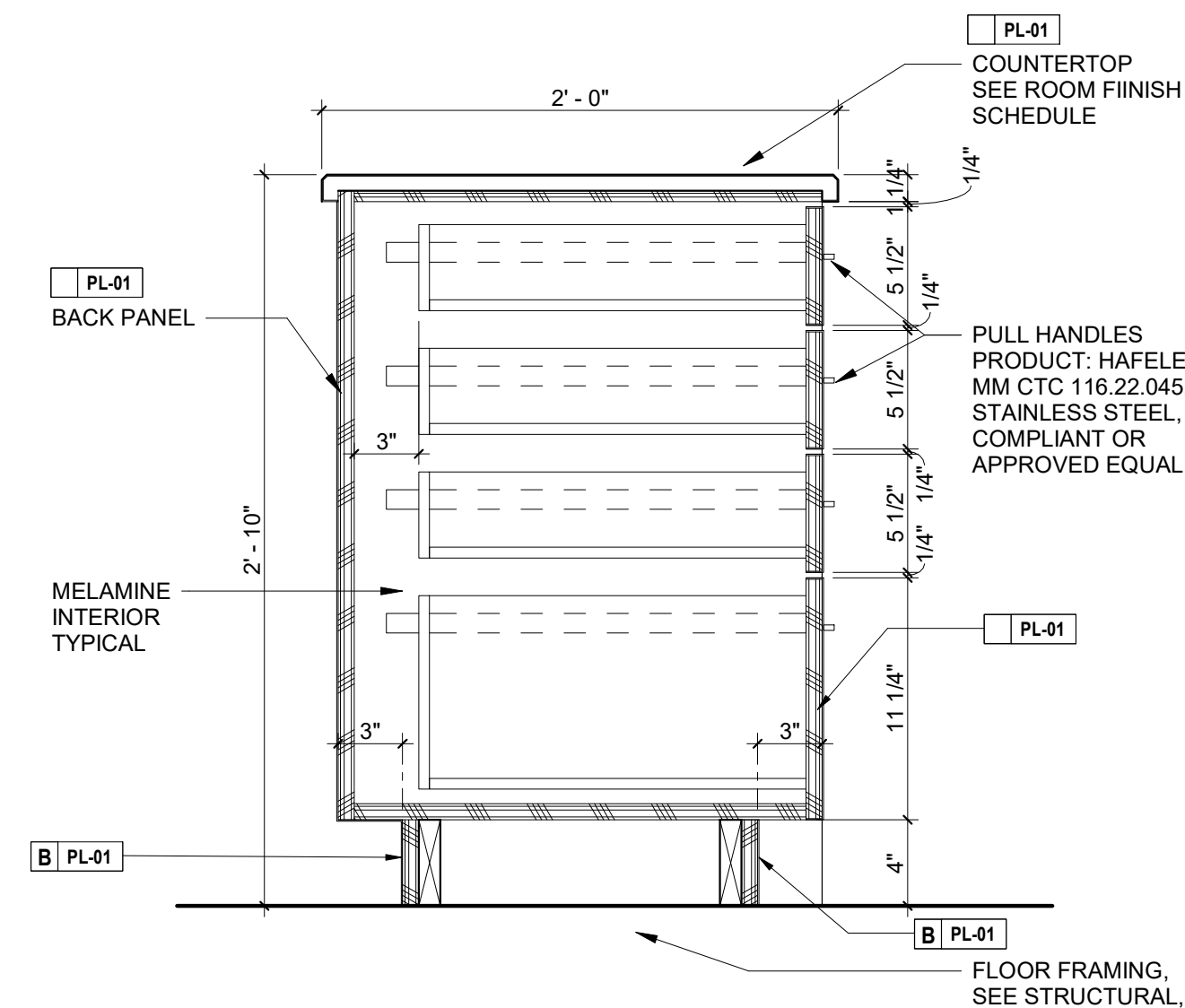
REVISIONS

No.	Description	Date

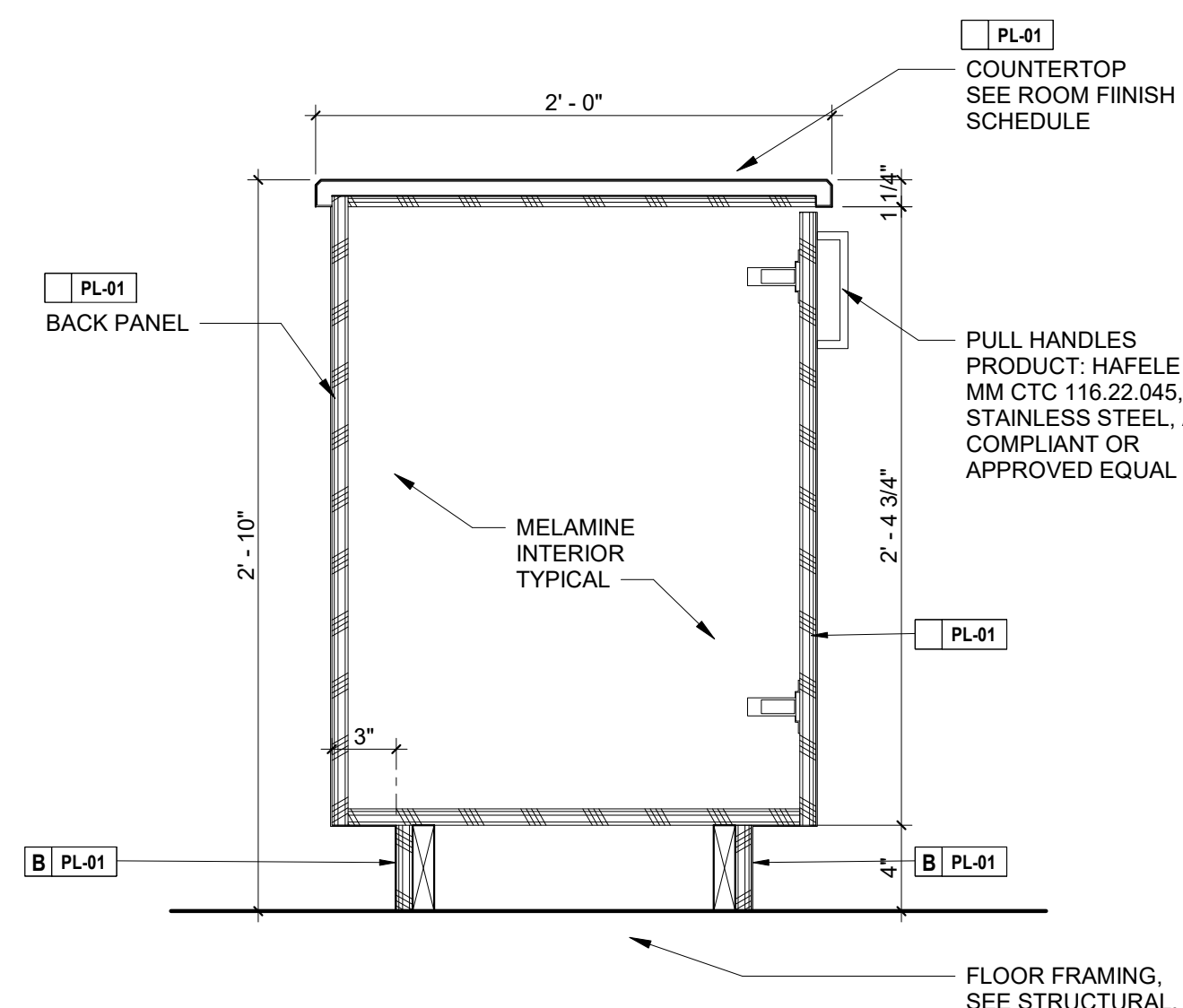
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CHECK SCALE DRAWINGS

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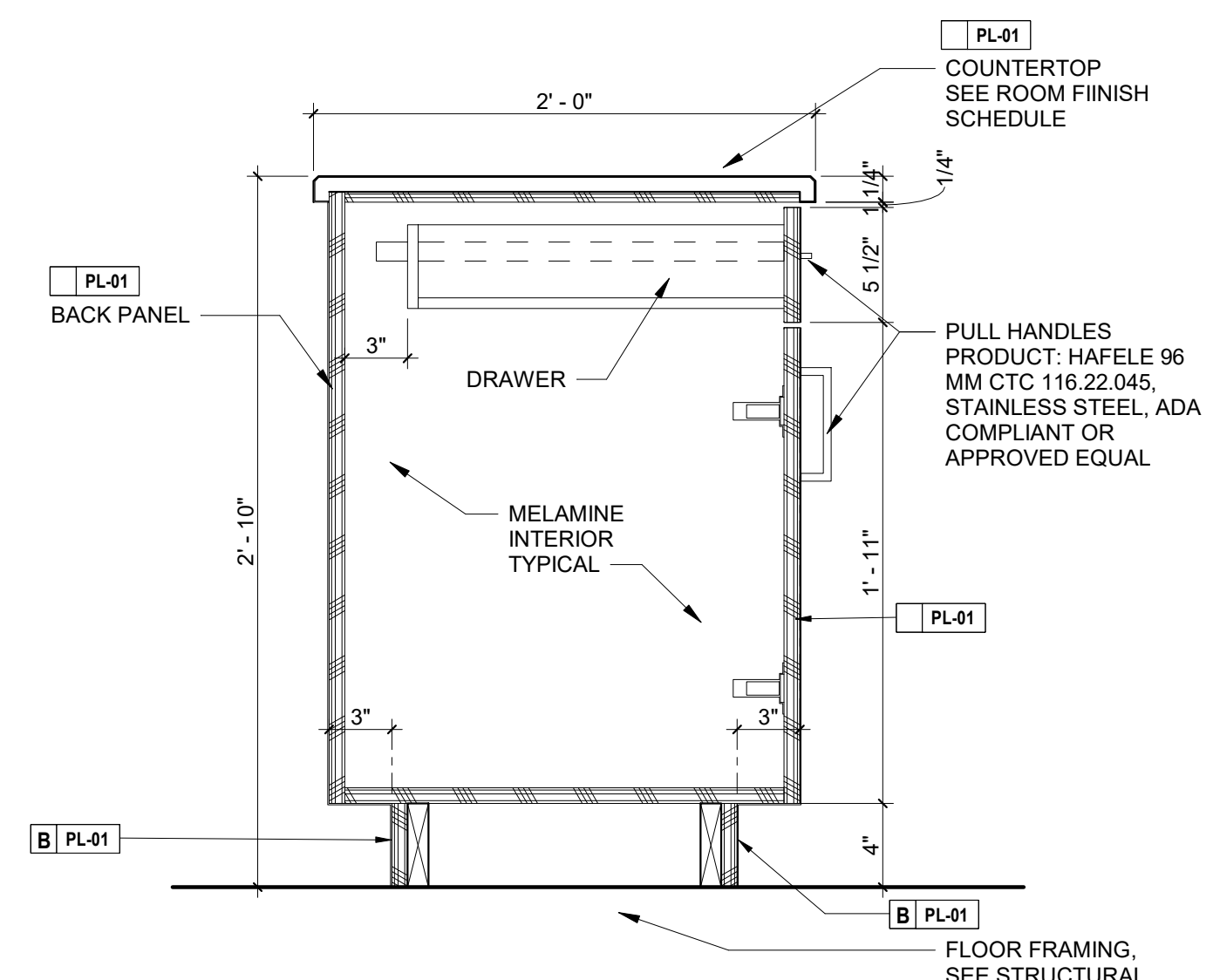
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**7 TYPICAL BASE CABINET WITH 4 DRAWER**  
SCALE: 1 1/2" = 1'-0"



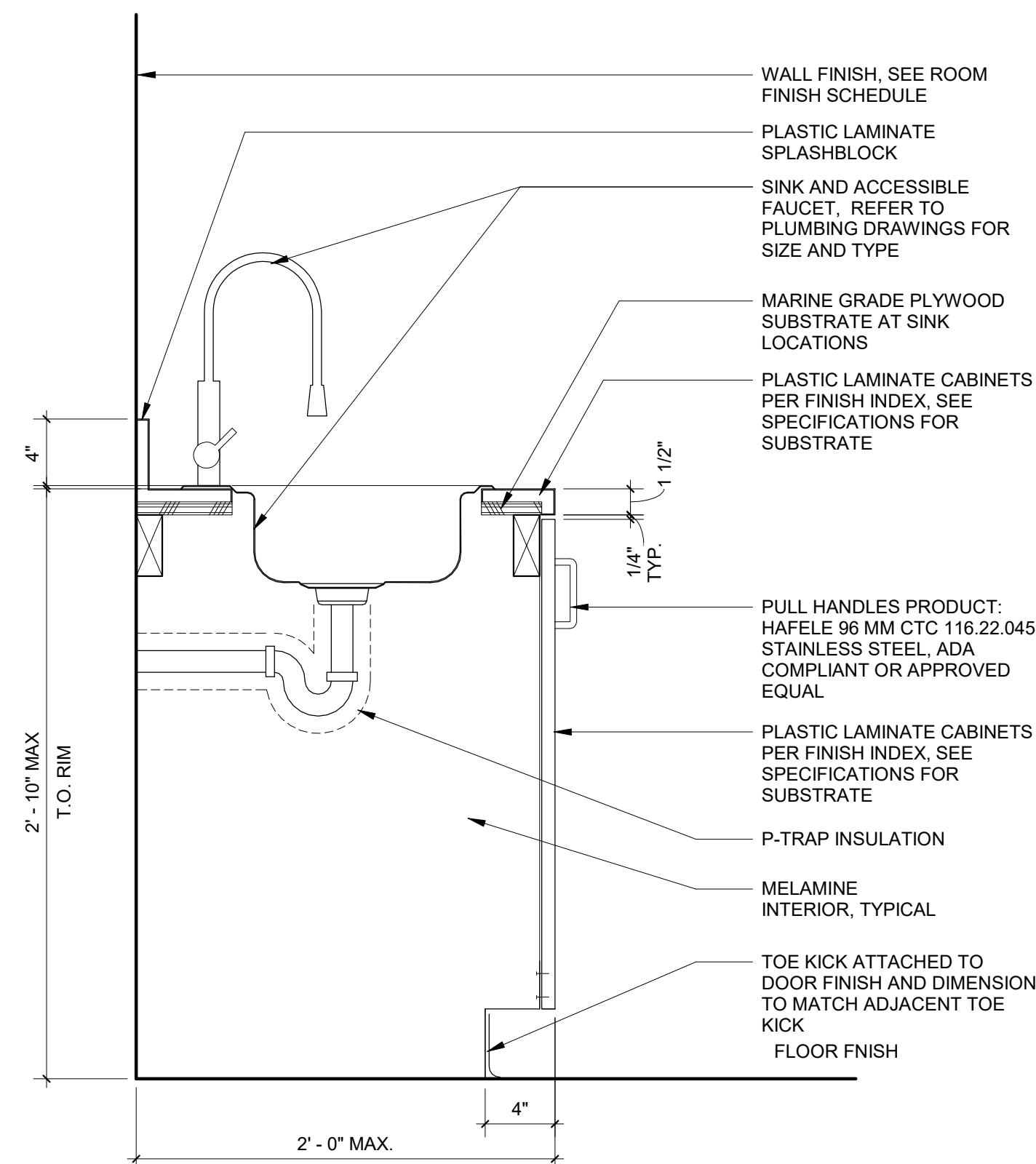
**6 TYPICAL ISLAND CABINET**  
SCALE: 1 1/2" = 1'-0"



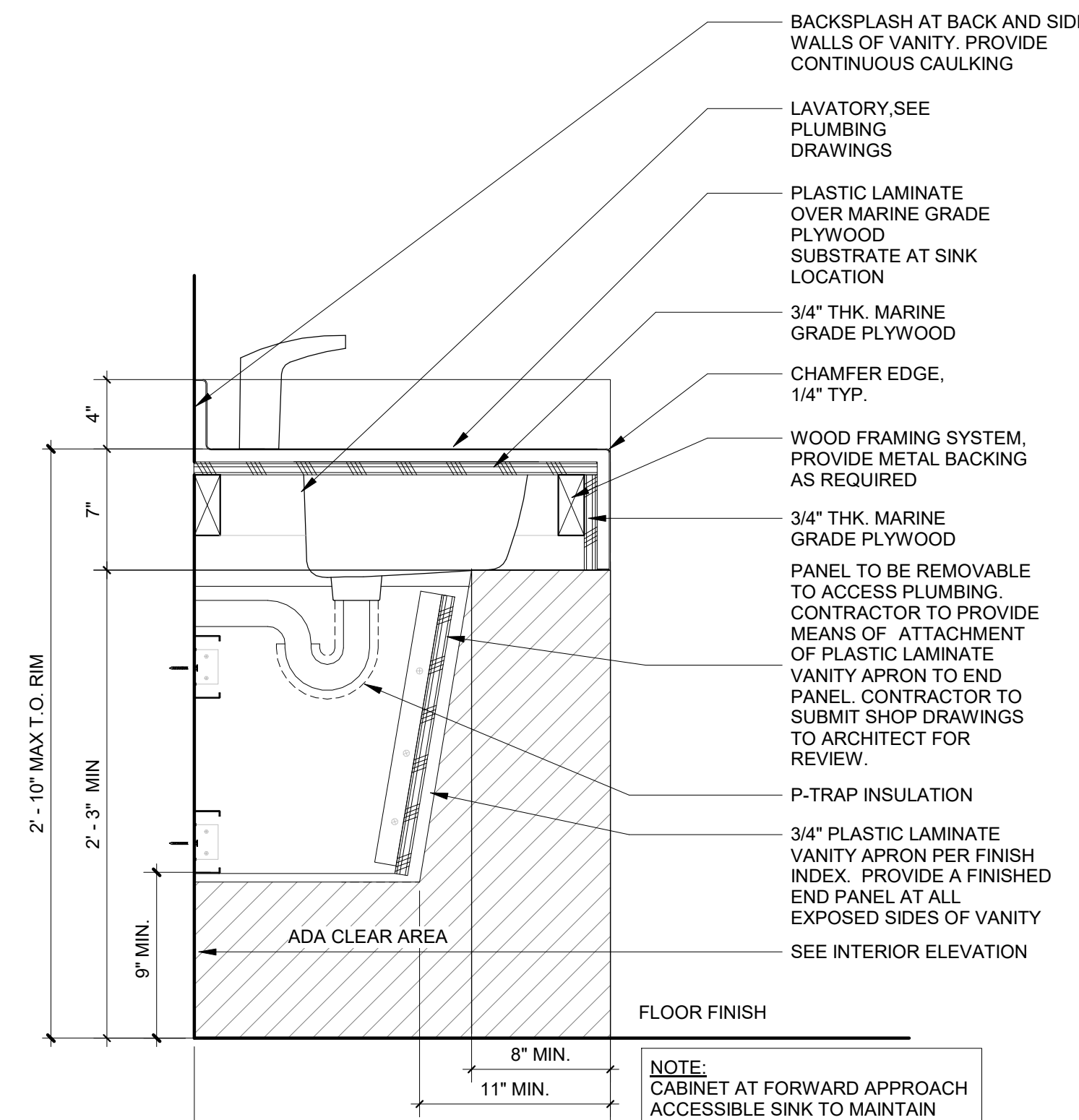
**5 TYPICAL ISLAND CABINET WITH DRAWER**  
SCALE: 1 1/2" = 1'-0"

**NOTE:**

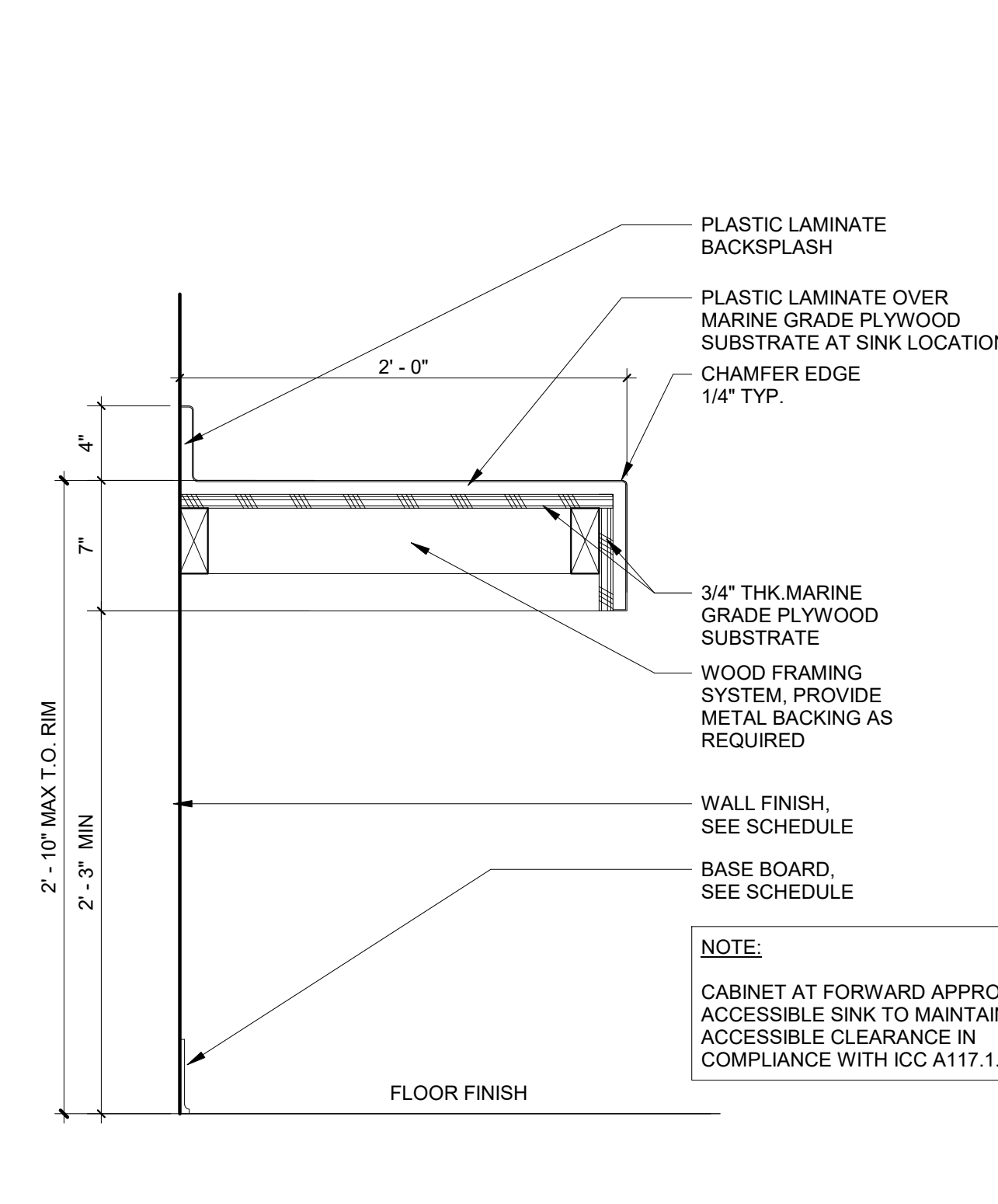
- REFER TO SPECIFICATIONS FOR CABINET CONSTRUCTION STANDARDS
- REFER TO FINISH INDEX FOR MATERIAL TYPES AND COLORS
- FACE OF CABINET BEHIND DOORS AND DRAWERS FINISH WITH MATCHING P-LAM
- KEEP SHELVES AND HARDWARE LOCATIONS CONSISTENT AT ALL LOCATIONS
- CABINET AT FORWARD APPROACH ACCESSIBLE SINK TO MAINTAIN ACCESSIBLE CLEARANCE IN COMPLIANCE WITH ICC A117.1. SEE G2.01 FOR MORE INFORMATION



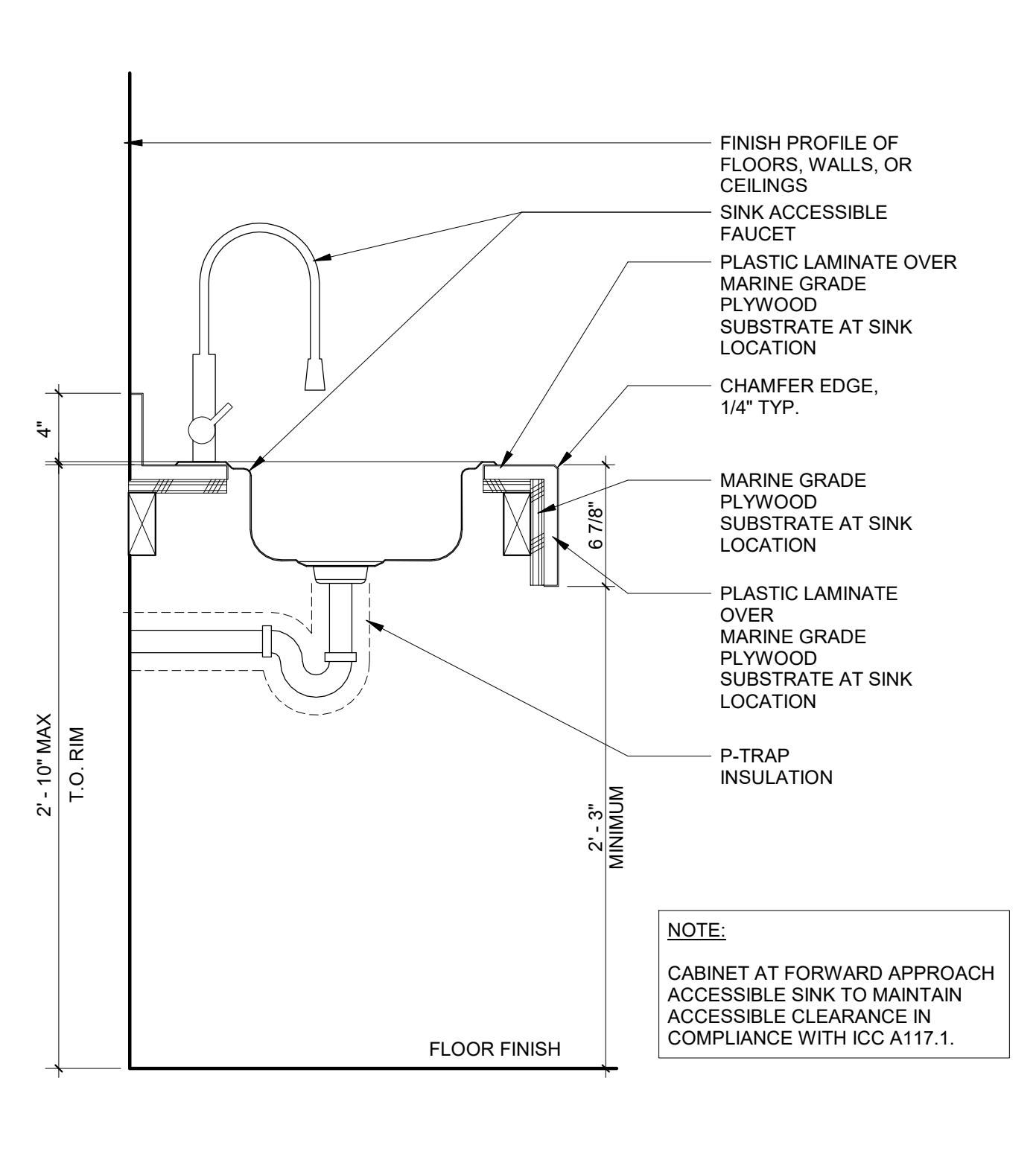
**4 CASEWORK ADA SINK**  
SCALE: 1 1/2" = 1'-0"



**3 CASEWORK VANITY**  
SCALE: 1 1/2" = 1'-0"



**2 CASEWORK COUNTERTOP WITHOUT APRON**  
SCALE: 1 1/2" = 1'-0"



**1 CASEWORK ADA SINK**  
SCALE: 1 1/2" = 1'-0"

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KEYNOTES	
01-13	SIGNAGE, ROOF ACCESS
07-03	METAL PARAPET COPING, PAINTED, COLOR TO MATCH EXTERIOR METAL FINISH
07-07	PARAPET WALL CAP, PAINT
09-01	7/8" THICK THREE COAT STUCCO SYTEM, COLOR TO MATCH EXISTING ADJACENT BUILDING
09-11	1" MINIMUM CONCRETE WITH A FIBER ADDITIVE, OVER A TAPERED FOAM WITH RIGID BACKING, OVER FLOOR TRUSS FRAMING. SEE STRUCTURAL

- ELEVATION GENERAL NOTES**
- CONTRACTOR TO VERIFY THAT ALL OPERABLE ELEMENTS ARE WITHIN THE DESIGNATED ADA REACH RANGES PER THE LATEST CODE COMPLIANCES.
  - CONTRACTOR TO VERIFY THAT ALL RECESSED ELEMENTS TO BE PLACED WITHOUT INTERFERENCE FROM ALL OTHER BUILDING ELEMENTS (I.E. STRUCTURAL, MECHANICAL, ETC.) PRIOR TO INSTALLATION.
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  - CONTRACTOR TO ENSURE THAT ALL LIGHT SHIELDING IS INSTALLED TO MEET MANUFACTURER AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.

**ELEVATION LEGEND**

	- DEFS-1 (STUCCO) DIRECT APPLIED EXTERIOR FINISH SYSTEM, PAINT: TO MATCH PHASE I
	- RCT-1 ROOF CLAY TILE - COLOR: TO MATCH PHASE I
	- MTL-1 COLOR: TO MATCH PHASE I

**KME ARCHITECTS**  
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 Suite #103  
 Las Vegas, NV 89113  
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**SNRHA BENNETT PLAZA PHASE II**  
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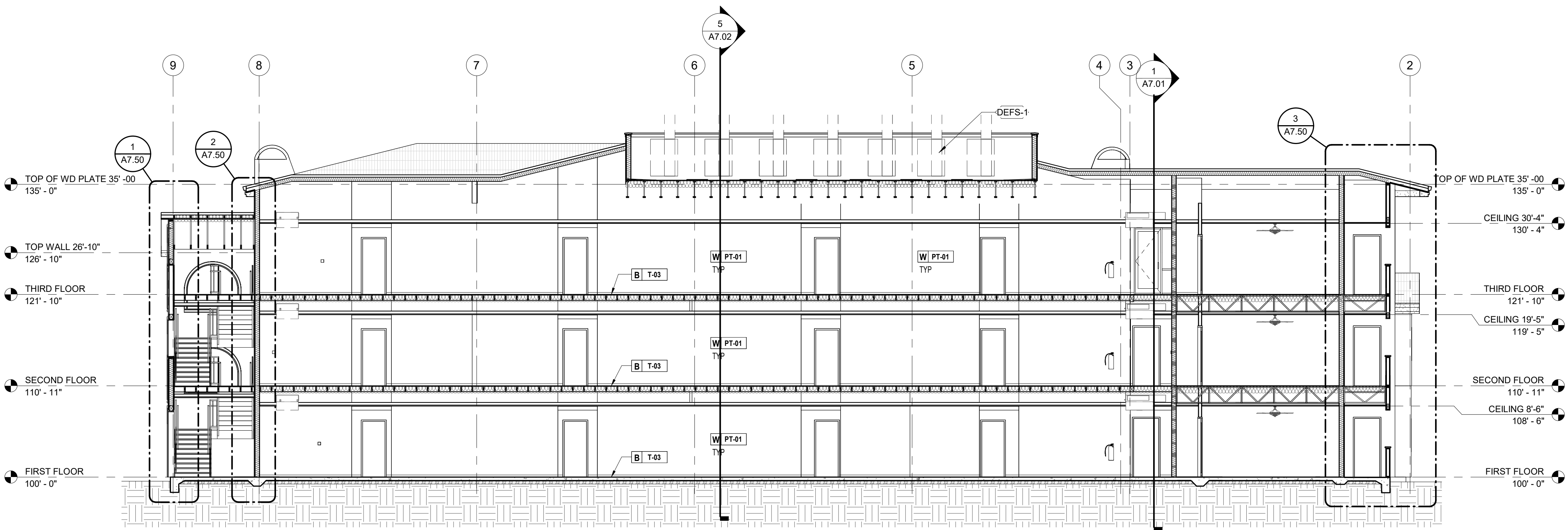
PROJECT:  
 SHEET TITLE:  
**PHASE II BUILDING SECTIONS**

**REVISIONS**

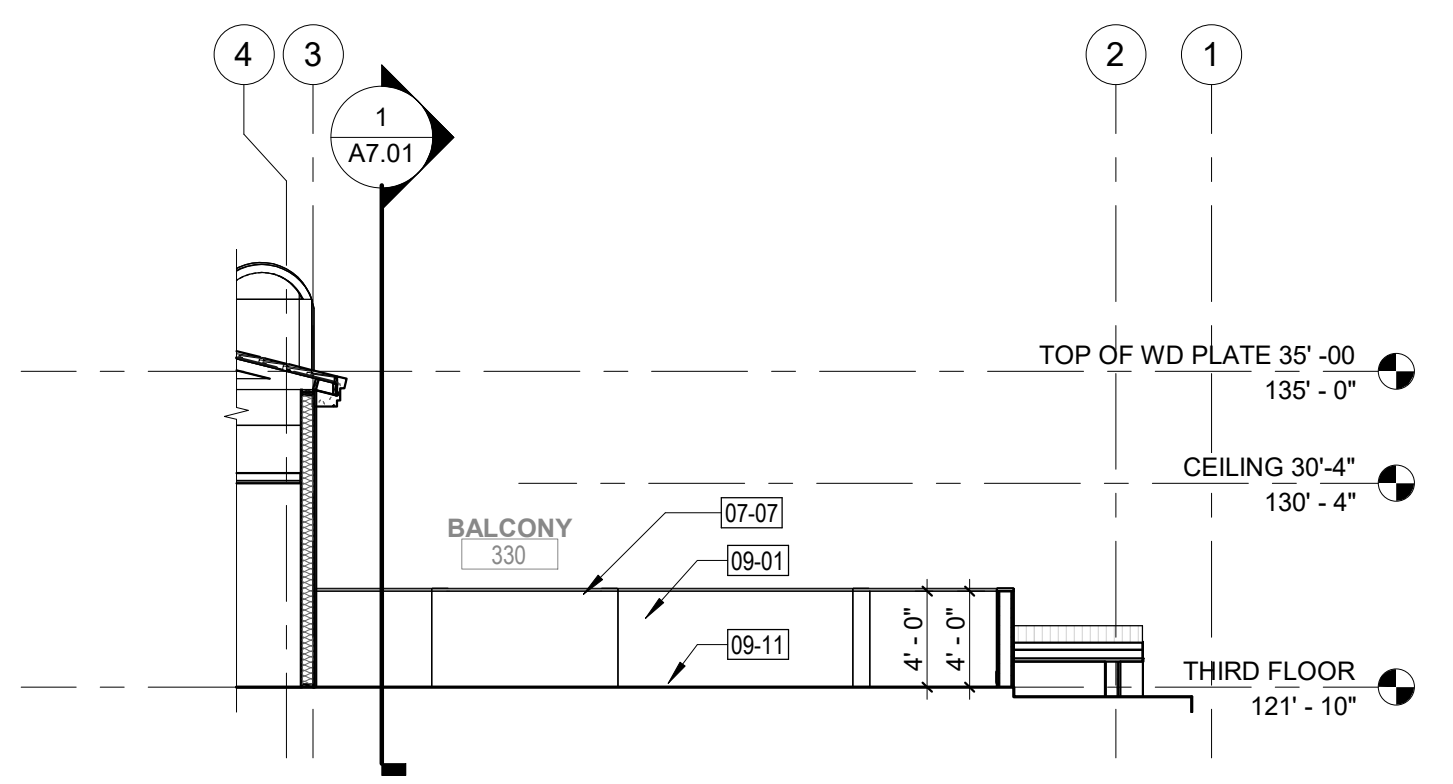
No.	Description	Date

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 DATE:  
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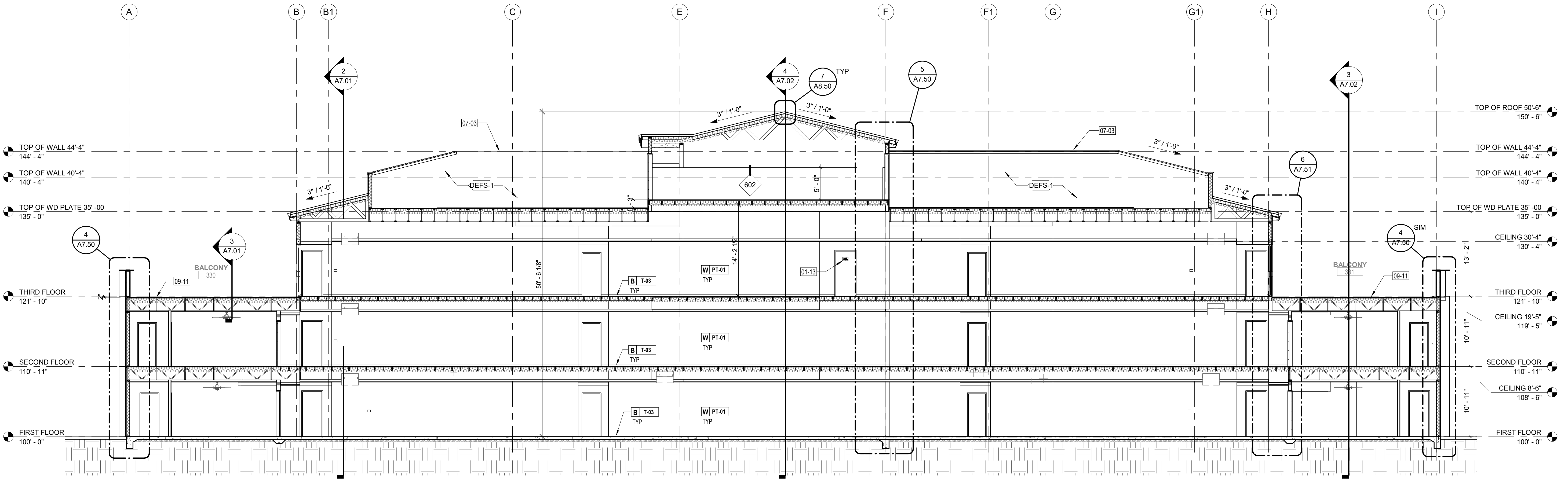
SHEET  
**A7.01**



**2 BUILDING SECTION 02**  
 SCALE: 1/8" = 1'-0"



**3 BALCONY SECTION - THIRD FLOOR**  
 SCALE: 1/8" = 1'-0"



**1 BUILDING SECTION 01**  
 SCALE: 1/8" = 1'-0"



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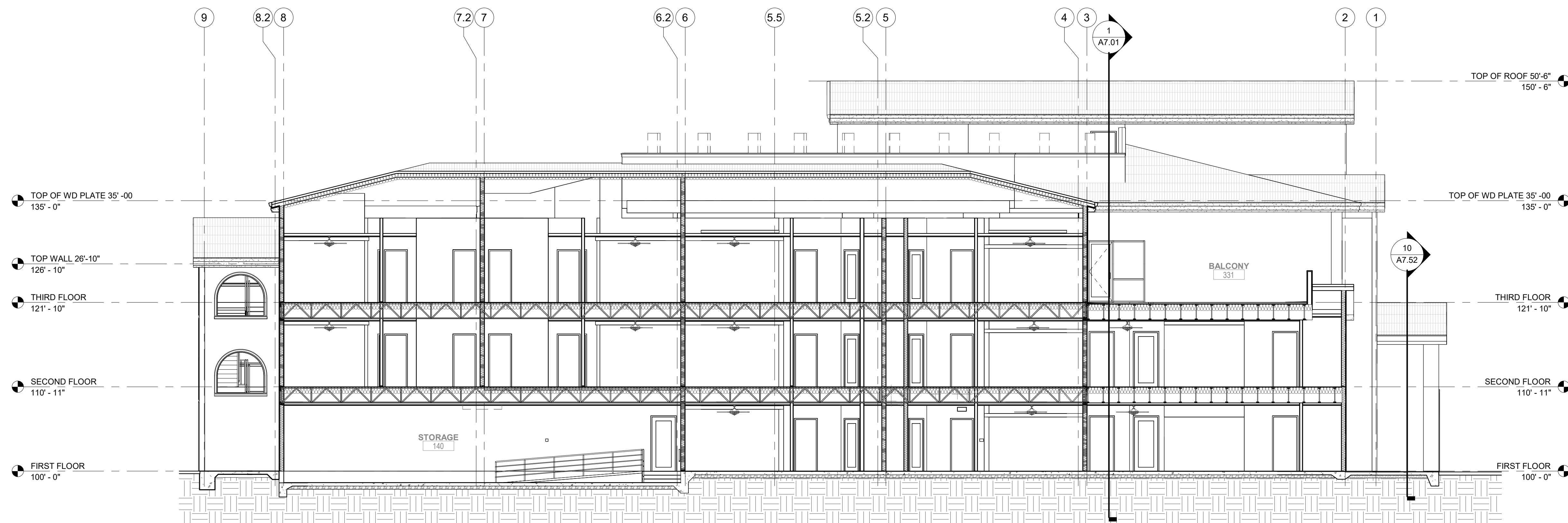
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D

C

B

A



**3 BUILDING SECTION 03**  
SCALE: 1/8" = 1'-0"

**ELEVATION GENERAL NOTES**

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**ELEVATION LEGEND**

- DEFS-1 (STUCCO) DIRECT APPLIED EXTERIOR FINISH SYSTEM, PAINT: TO MATCH PHASE I
- RCT-1 ROOF CLAY TILE - COLOR: TO MATCH PHASE I
- MTL-1 COLOR: TO MATCH PHASE I

**KEYNOTES**

- 06-01 MFR FLOOR TRUSS, SEE STRUCTURAL
- 06-02 MFR ROOF TRUSS, SEE STRUCTURAL

**KME ARCHITECTS**  
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Las Vegas, NV 89113  
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Fax: 702.888.2089  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

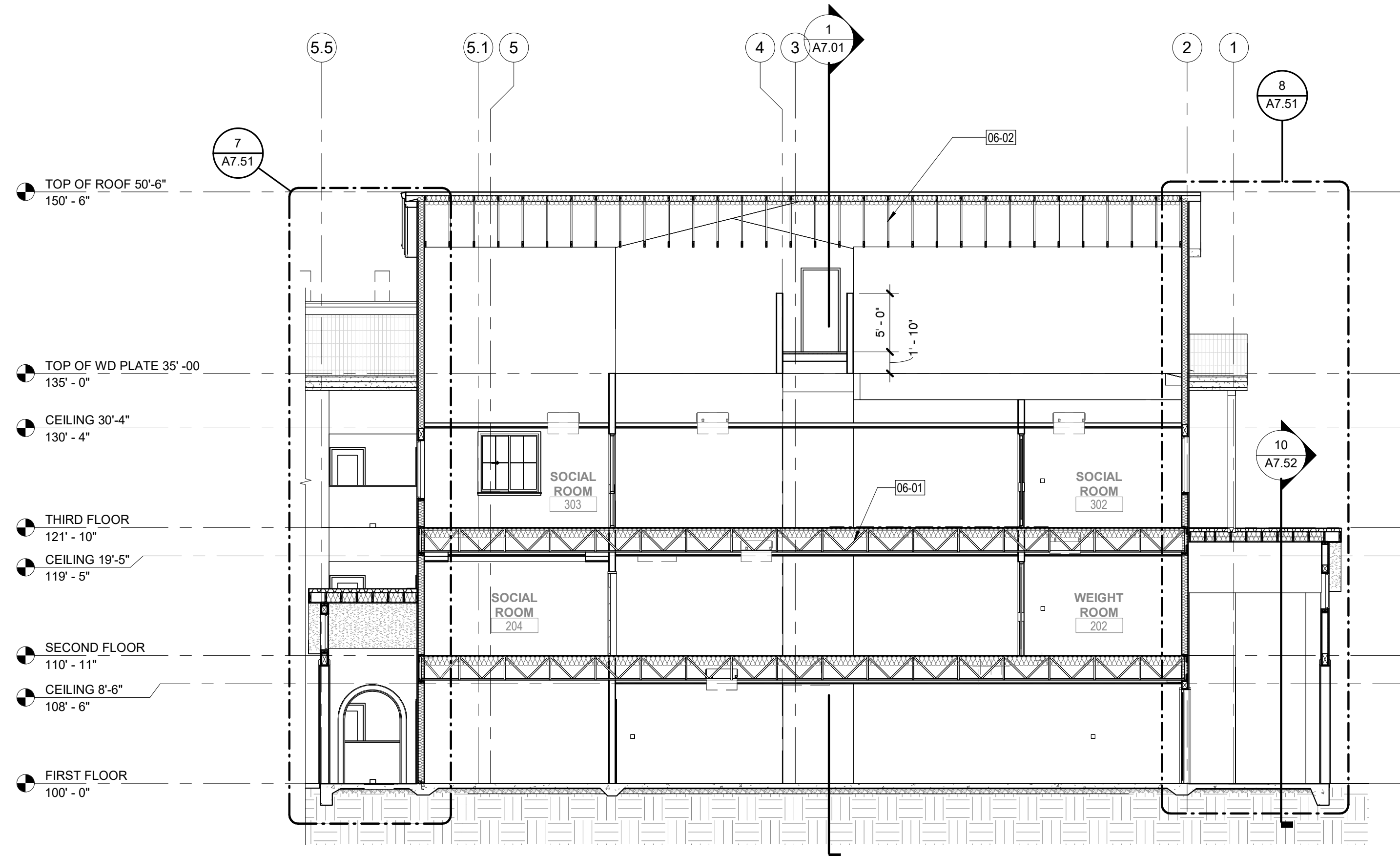
**SHEET TITLE:**  
PHASE II BUILDING SECTIONS

REVISIONS		
No.	Description	Date

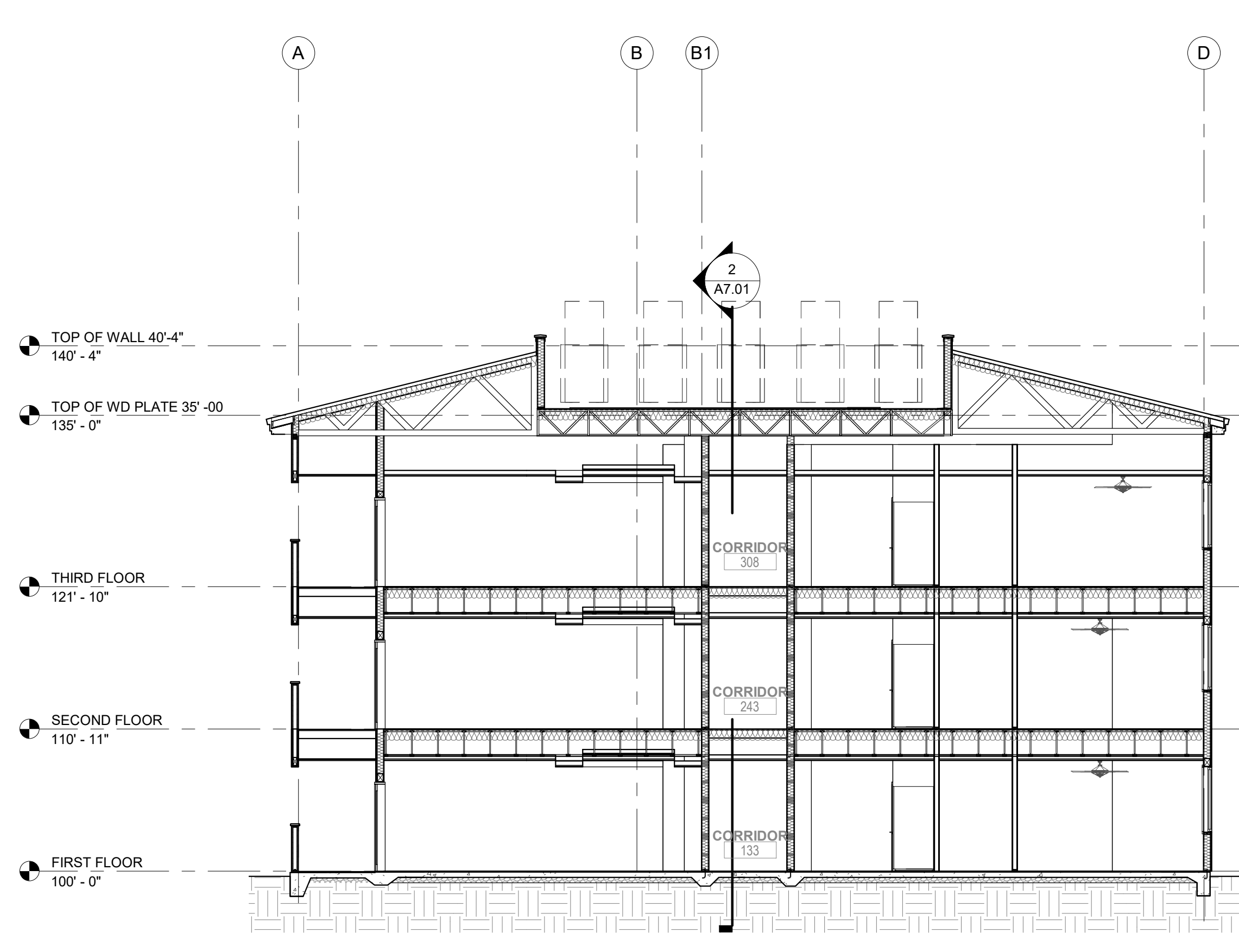
**DRAWN BY:** KME  
**DATE:**  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED  
2023 SCALE DRAWINGS

**SHEET**  
**A7.02**

**4 BUILDING SECTION 04**  
SCALE: 1/8" = 1'-0"



**5 BUILDING SECTION 05**  
SCALE: 1/8" = 1'-0"



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KEYNOTES

KEYNOTES

- 03-02 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
- 03-03 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
- 03-04 TYPE II COMPACTED AGGREGATE BASE, SEE STRUCTURAL
- 05-01 ROOF ACCESS LADDER TO CATWALK
- 05-02 ANCHOR BOLT, SEE STRUCTURAL DRAWINGS
- 06-01 MFR FLOOR TRUSS, SEE STRUCTURAL
- 06-02 MFR ROOF TRUSS, SEE STRUCTURAL
- 06-03 FLOOR SHEATHING OVER FLOOR TRUSS, SEE STRUCTURAL
- 06-05 2X BLOCKING, SEE STRUCTURAL DRAWINGS
- 06-06 2X SILL PLATE, SEE STRUCTURAL DRAWINGS
- 06-07 2X STUD WALL, SEE STRUCTURAL DRAWINGS
- 06-09 2X TOP PLATE, SEE STRUCTURAL
- 06-10 CONT 2X RIBBON, SEE STRUCTURAL
- 06-11 CONT FASCIA PAINT, SEE PROFILE SCHEDULE
- 06-12 2X DIAGONAL BRACE AS REQUIRED, SEE STRUCTURAL
- 06-13 HEADER, SEE STRUCTURAL
- 07-01 ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR. ROOF TRUSS, SEE STRUCTURAL
- 07-08 R-19 MIN WALL INSULATION, SEE WALL TYPES
- 07-09 ROOF SHEATHING, SEE STRUCTURAL
- 07-10 PREMOLDED JOINT FILLER
- 07-11 R-38 INSULATION, INSTALLATION, PER RESNET GRADE 1
- 07-12 #30 FELT OVER ROOF SHEATHING
- 07-14 ROOF TILE EDGE CLOSURE PROFILE
- 09-01 7/8" THICK THREE COAT STUCCO SYTEM, COLOR TO MATCH EXISTING ADJACENT BUILDING
- 09-02 CEMENT PLASTER OVER PREMOLDED EAVES PROFILE, PAINT.
- 09-03 CEMENT PLASTER OVER PREMOLDED FOAM PROFILE WALL TRIM, PAINTED
- 09-05 5/8" THK. GYPSUM BOARD, SEE WALL TYPES
- 09-06 EXTERIOR CEMENT BOARD OVER EXTERIOR SHEATHING CEILING SOFFIT, PAINT
- 09-07 CEMENT PLASTER WALL CAP, PAINT

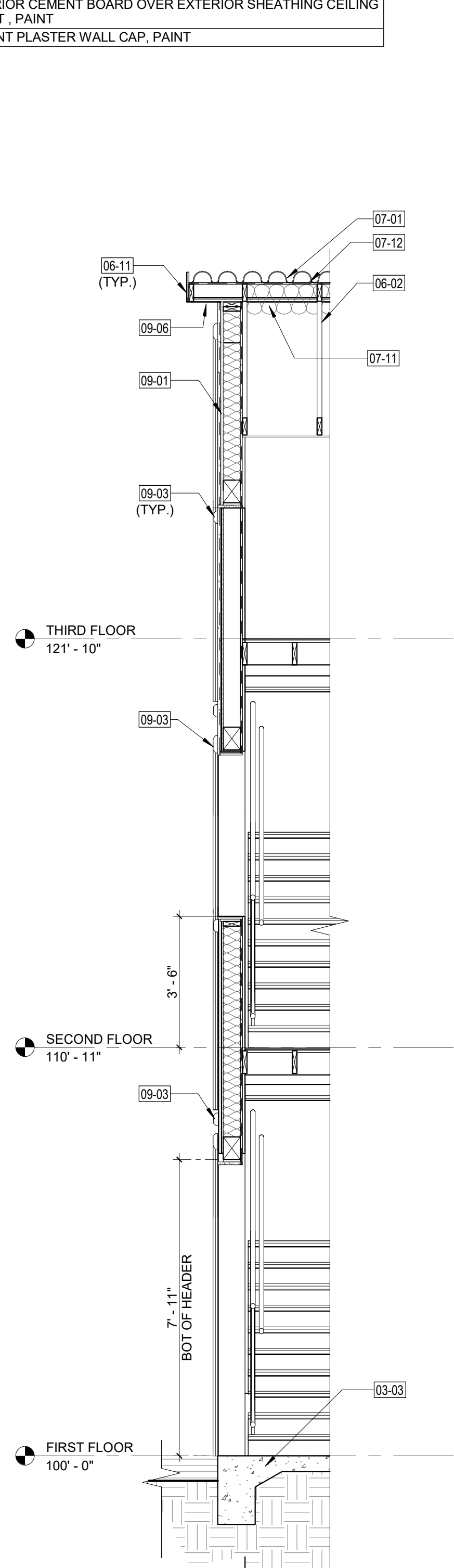
- 09-08 CONTINUOUS METAL DRIP HOLD, PAINT
- 09-09 BASEBOARD, SEE ROOM FINISH SCHEDULE
- 09-11 1" MINIMUM CONCRETE WITH A FIBER ADDITIVE, OVER A TAPERED FOAM WITH RIGID BACKING, OVER FLOOR TRUSS FRAMING, SEE STRUCTURAL.
- 22-01 DRINKING FOUNTAIN, PROVIDE MOUNTING BACKING AS REQUIRED, SEE PLUMBING DRAWINGS

D

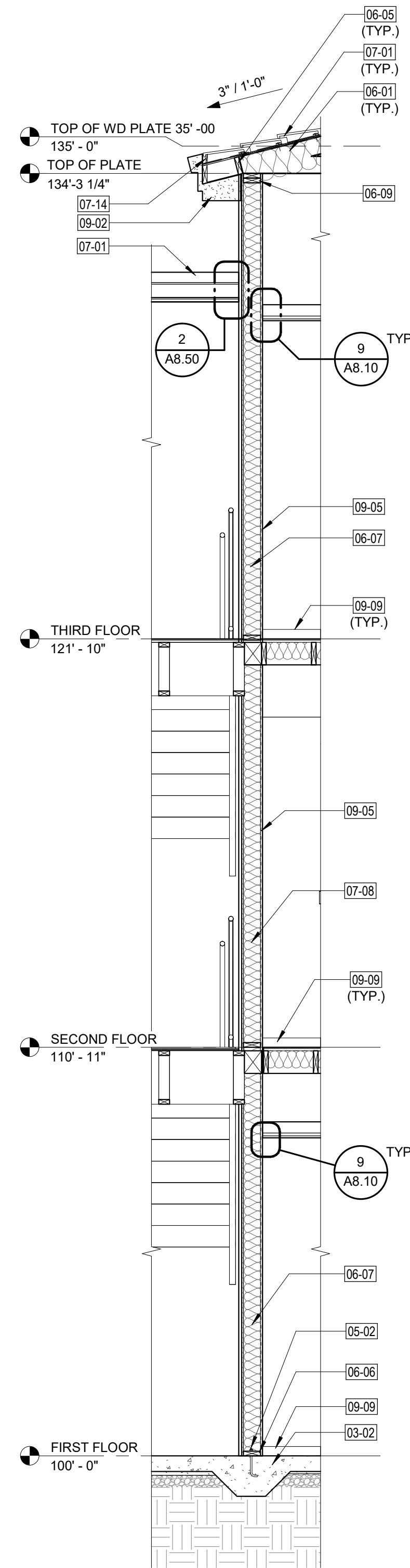
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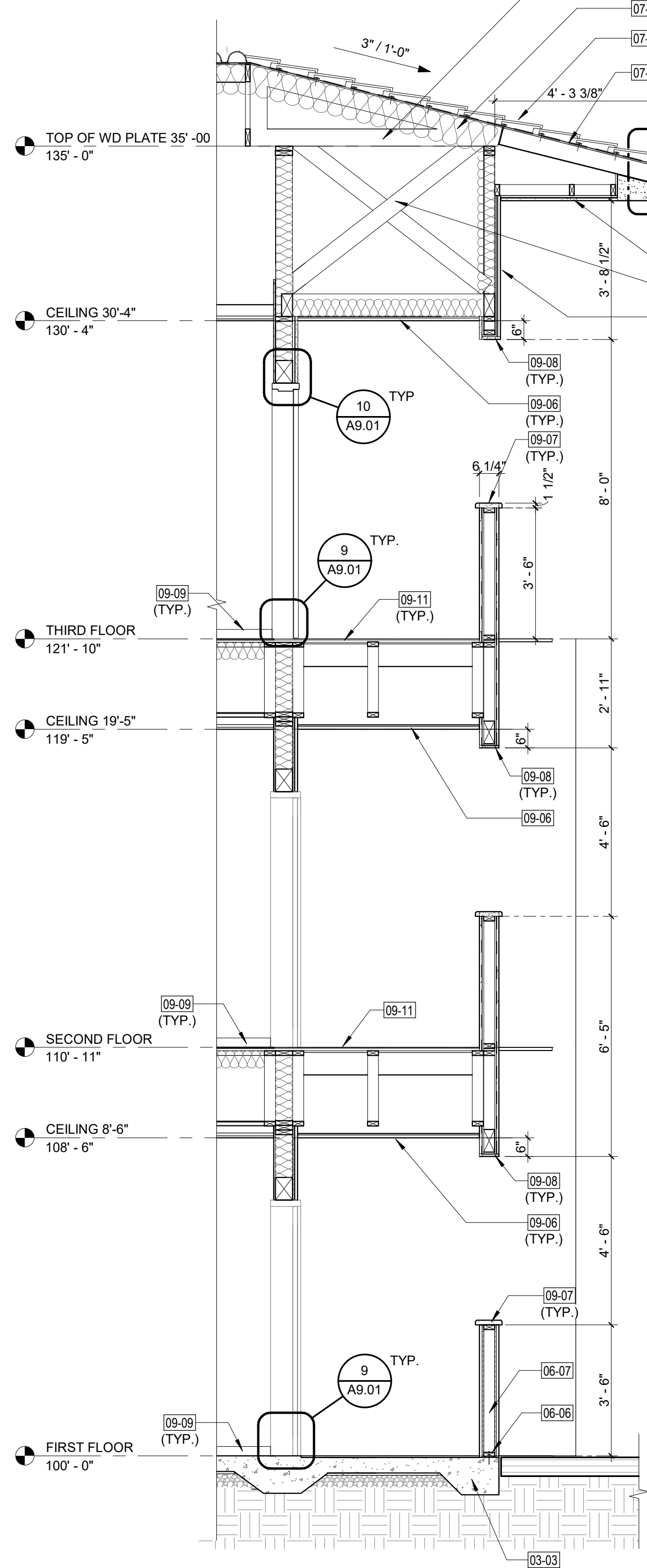
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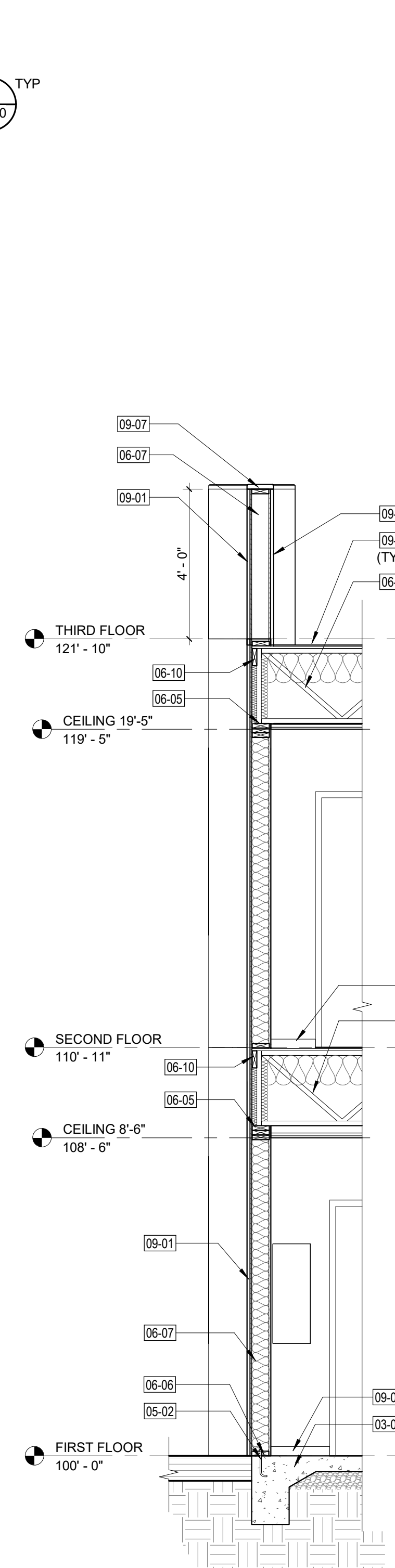
1 WALL SECTION 1  
SCALE: 3/8" = 1'-0"



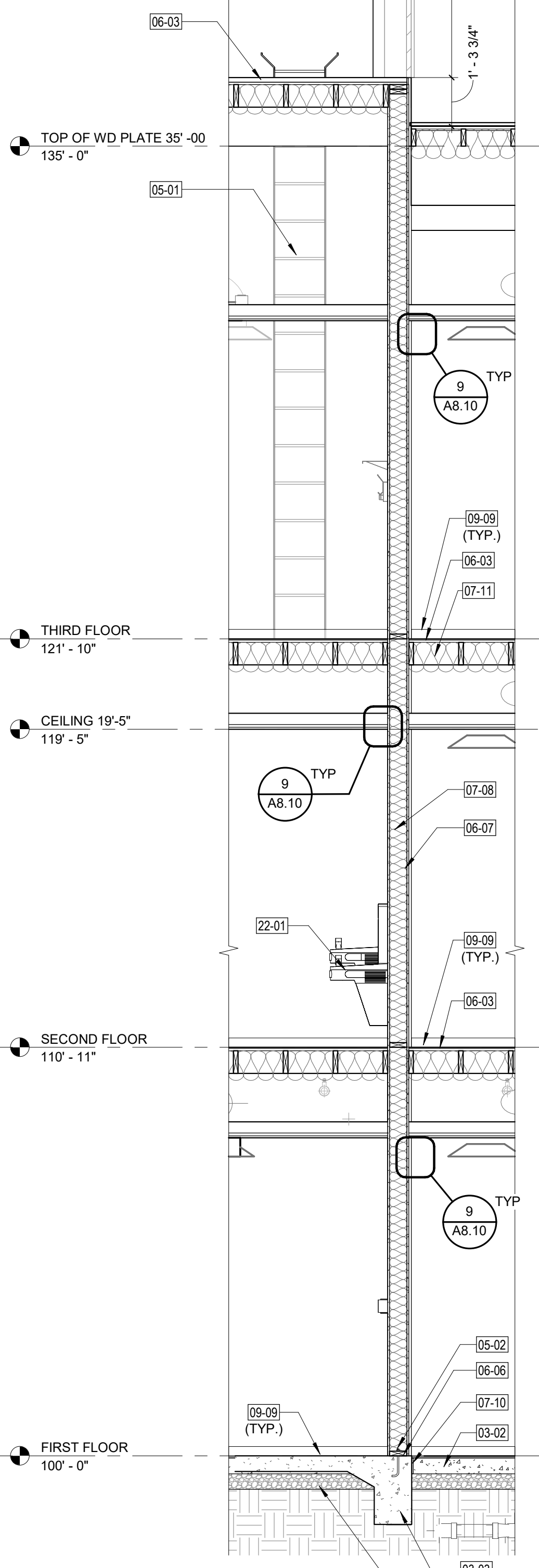
2 WALL SECTION 2  
SCALE: 3/8" = 1'-0"



3 WALL SECTION 3  
SCALE: 3/8" = 1'-0"



4 WALL SECTION 4  
SCALE: 3/8" = 1'-0"



5 WALL SECTION 5  
SCALE: 3/8" = 1'-0"

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
WALL SECTIONS

No.	Description	Date
1	CLV COM.	6/21/24

**DRAWN BY:** KME  
**DATE:**  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED  
(ON ALL SCALE DRAWINGS)

**SHEET**  
**A7.50**

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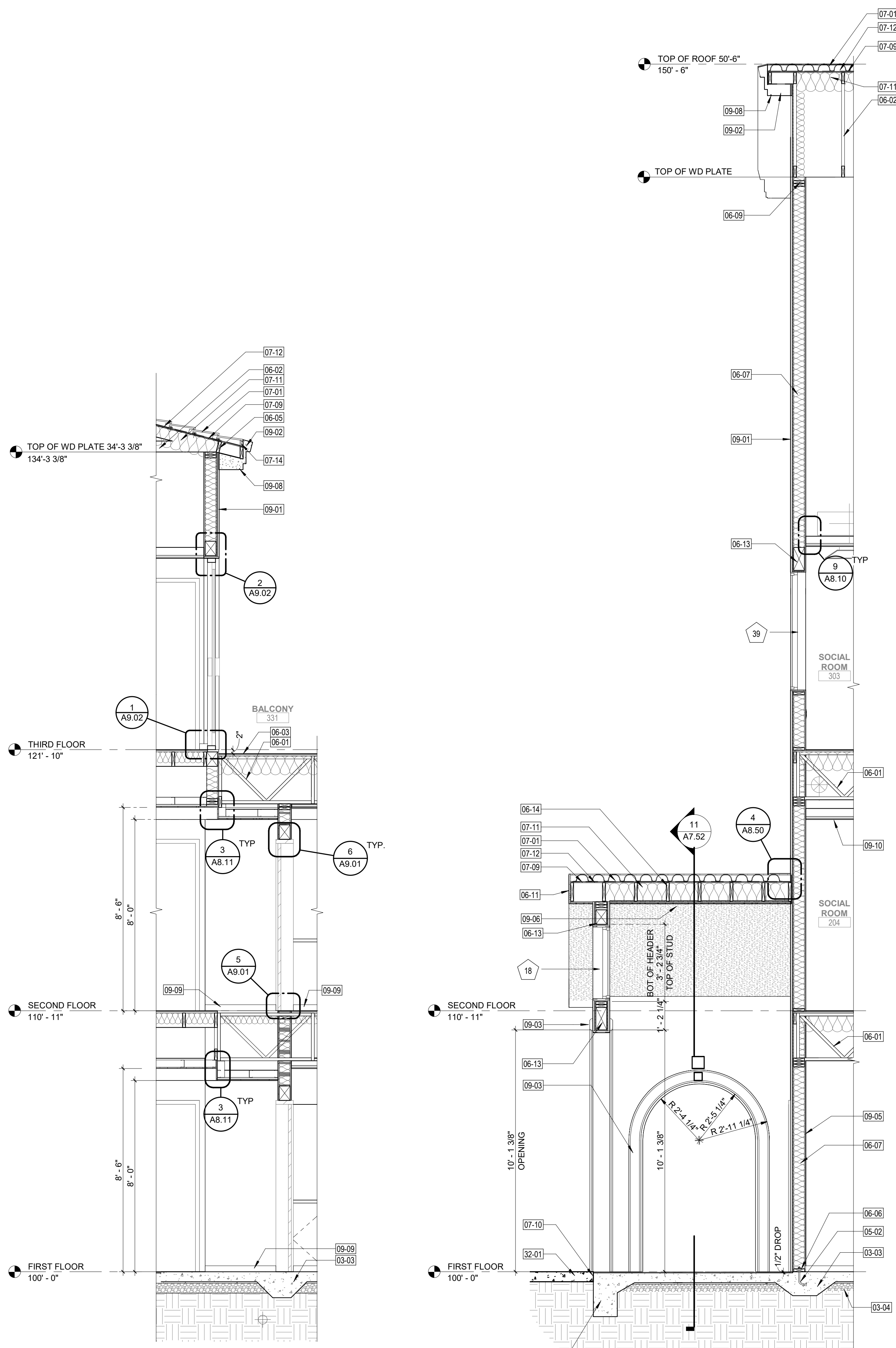
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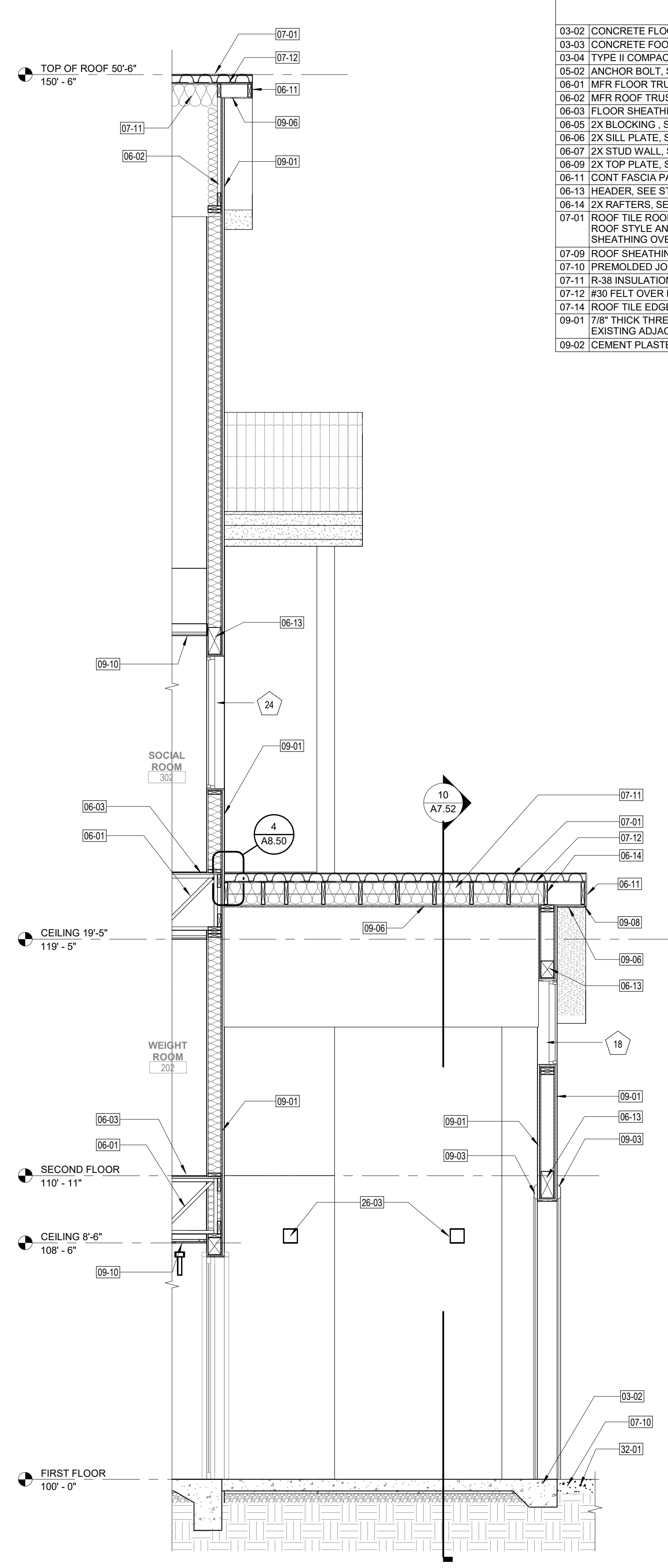
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**6 WALL SECTION 6**  
SCALE: 3/8" = 1'-0"

**7 WALL SECTION 7**  
SCALE: 3/8" = 1'-0"



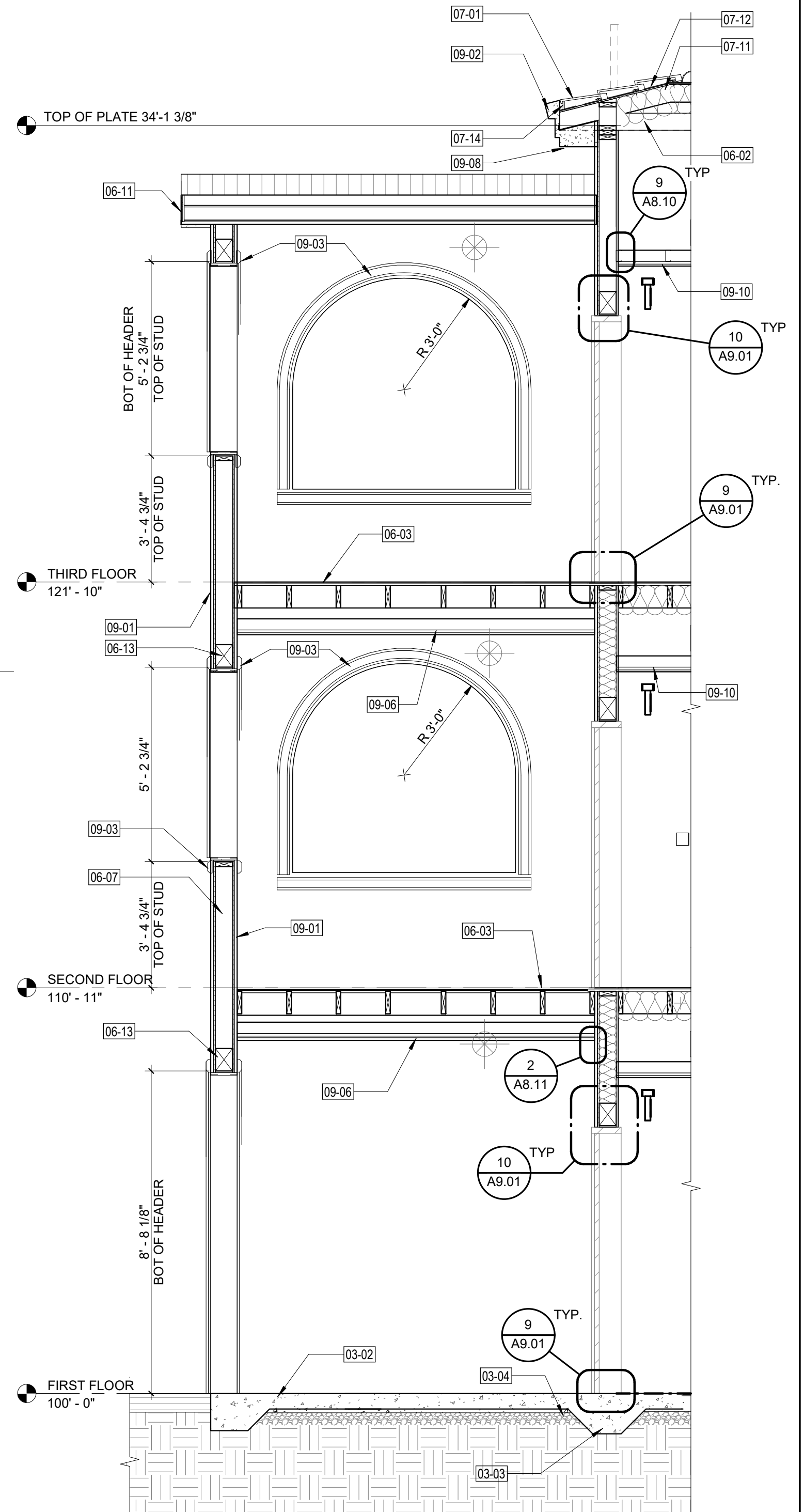
**8 WALL SECTION 8**  
SCALE: 3/8" = 1'-0"

**KEYNOTES**

03-02	CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
03-03	CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
03-04	TYPE II COMPACTED AGGREGATE BASE, SEE STRUCTURAL
05-02	ANCHOR BOLT, SEE STRUCTURAL DRAWINGS
06-01	MFR FLOOR TRUSS, SEE STRUCTURAL
06-02	MFR ROOF TRUSS, SEE STRUCTURAL
06-03	FLOOR SHEATHING OVER FLOOR TRUSS, SEE STRUCTURAL
06-05	2X BLOCKING, SEE STRUCTURAL DRAWINGS
06-06	2X SILL PLATE, SEE STRUCTURAL DRAWINGS
06-07	2X STUD WALL, SEE STRUCTURAL DRAWINGS
06-09	2X TOP PLATE, SEE STRUCTURAL
06-11	CONT FASCIA PAINT, SEE PROFILE SCHEDULE
06-13	HEADER, SEE STRUCTURAL
06-14	2X RAFTERS, SEE STRUCTURAL
07-01	ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR, ROOF TRUSS, SEE STRUCTURAL
07-09	ROOF SHEATHING, SEE STRUCTURAL
07-10	PREMOLDED JOINT FILLER
07-11	R-38 INSULATION, INSTALLATION, PER RESNET GRADE 1
07-12	#30 FELT OVER ROOF SHEATHING
07-14	ROOF TILE EDGE CLOSURE PROFILE
09-01	7/8" THICK THREE COAT STUCCO SYTEM, COLOR TO MATCH EXISTING ADJACENT BUILDING
09-02	CEMENT PLASTER OVER PREMOLDED EAVES PROFILE, PAINT.

**KEYNOTES**

09-03	CEMENT PLASTER OVER PREMOLDED FOAM PROFILE WALL TRIM, PAINTED
09-05	5/8" THK. GYPSUM BOARD, SEE WALL TYPES
09-06	EXTERIOR CEMENT BOARD OVER EXTERIOR SHEATHING CEILING SOFFIT, PAINT
09-08	CONTINUOUS METAL DRIP HOLD, PAINT
09-09	BASEBOARD, SEE ROOM FINISH SCHEDULE
09-10	5/8" THK. GYPSUM BOARD CEILING, SEE ROOM FINISH SCHEDULE
26-03	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
32-01	CONCRETE PAVING, SEE CIVIL DRAWINGS



**9 WALL SECTION 9**  
SCALE: 3/8" = 1'-0"

**KME ARCHITECTS**  
5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROJECT:**  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:**  
**WALL SECTIONS**

**REVISIONS**

No.	Description	Date

**DRAWN BY:** KME  
**DATE:**  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED  
CONTRACT SCALE DRAWINGS

**SHEET**  
**A7.51**

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KEYNOTES	
03-02	CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
03-03	CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
05-02	ANCHOR BOLT, SEE STRUCTURAL DRAWINGS
06-05	2X BLOCKING, SEE STRUCTURAL DRAWINGS
06-06	2X SILL PLATE, SEE STRUCTURAL DRAWINGS
06-07	2X STUD WALL, SEE STRUCTURAL DRAWINGS
06-13	HEADER, SEE STRUCTURAL
06-14	2X RAFTERS, SEE STRUCTURAL
07-01	ROOF TILE ROOFING SYSTEM, TO MATCH EXISTING BUILDING ROOF STYLE AND COLOR OVER #30 FELT PAPER OVER ROOF SHEATHING OVER MFR. ROOF TRUSS, SEE STRUCTURAL
07-05	ROOF RIDGE CAP OVER CONT 2X NAILER TO MATCH ROOF TILE STYLE AND COLOR
07-09	ROOF SHEATHING, SEE STRUCTURAL
07-11	R-38 INSULATION, INSTALLATION, PER RESNET GRADE 1
07-12	#30 FELT OVER ROOF SHEATHING
07-14	ROOF TILE EDGE CLOSURE PROFILE
09-01	7/8" THICK THREE COAT STUCCO SYTEM, COLOR TO MATCH EXISTING ADJACENT BUILDING
09-02	CEMENT PLASTER OVER PREMOLED EAVES PROFILE, PAINT, PAINTED
09-03	CEMENT PLASTER OVER PREMOLED FOAM PROFILE WALL TRIM, PAINTED
09-08	CONTINUOUS METAL DRIP HOLD, PAINT
28-03	WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
32-02	ASPHALT PAVING, SEE CIVIL DRAWINGS

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07.15.24

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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

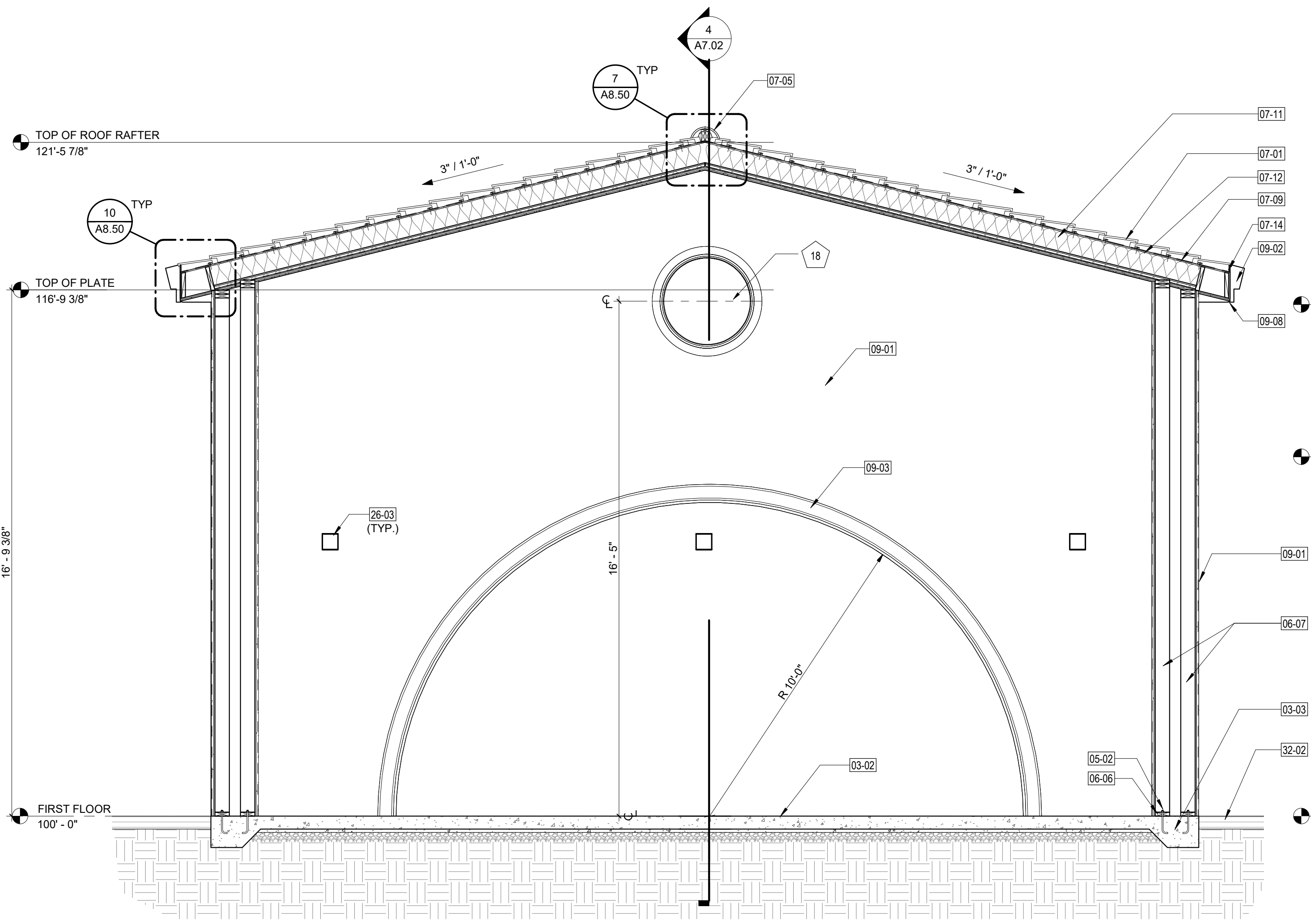
**SHEET TITLE:**  
WALL SECTIONS

REVISIONS		
No.	Description	Date

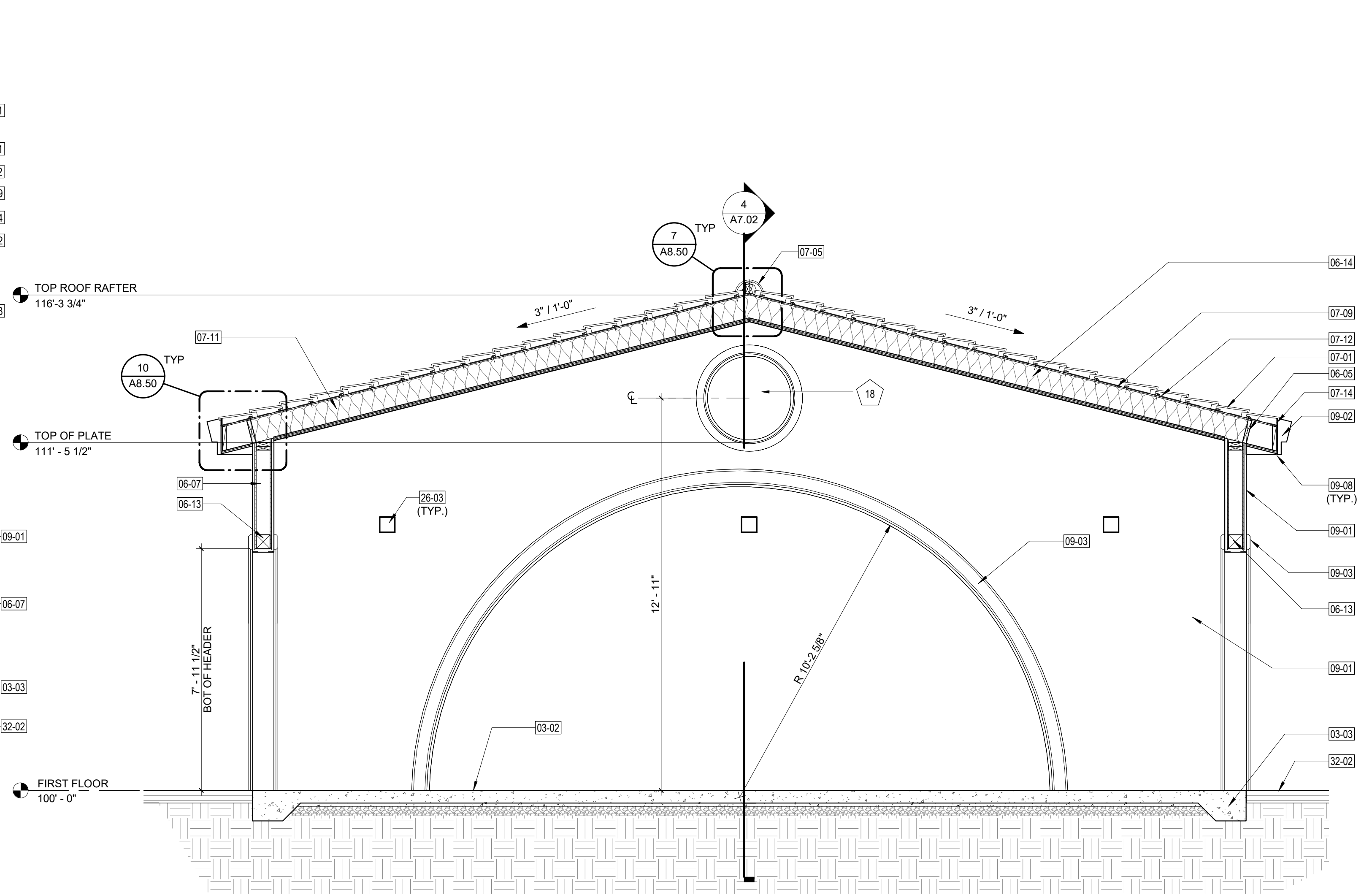
DRAWN BY: KME  
DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
**A7.52**

D  
C  
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A



**10 WALL SECTION - NORTH ENTRY**  
SCALE: 3/8" = 1'-0"



**11 WALL SECTION - SOUTH ENTRY**  
SCALE: 3/8" = 1'-0"

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**361** ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF DOUBLE ROW OF 2X4 WOOD STUDS AT 16" O.C. ON SEPARATE PLATES 1" APART WITH 2" TYPE W SCREWS 7" O.C. TWO LAYERS 3/5" UNFACED GLASS FIBER INSULATION FRICTION FIT ON BOTH SIDES. JOINTS STAGGERED 16" ON OPPOSITE SIDES. HORIZONTAL BRACING REQUIRED AT MID-HEIGHT. (LOAD BEARING)

**NOT USED**

THICKNESS: 9 1/4"

GA FILE NO. WP 3370

SEE WP 3805 (UL R1310-4, 6, 6-17-52, UL R2717-36, 1-20-66, UL R3501-52, 3-15-66, IAL DESIGN U305, ULC DESIGN W301); UL R4042, 10-31-68

STC 40 - 44

**500** ONE LAYER 5/8" PROPRIETARY TYPE X GYPSUM WALLBOARD APPLIED PARALLEL OR RIGHT ANGLES TO EACH SIDE OF 2X4 WOOD STUDS 16" O.C. WITH 1-1/4" TYPE W SCREWS 8" O.C.

THICKNESS: 4 3/4"

NOT RATED

**801** 7/8" THICK GROUDED CMU WALL. SEE STRUCTURAL WITH 2X4 WOOD STUDS AT 16" O.C. MAXIMUM HEIGHT AND SPACING FOR INTERIOR WOOD STUD PARTITION PER STUD FRAMING DETAILS. SEE STRUCTURAL STUD PARTITION FRAMING DETAILS. 1 LAYER OF GYPSUM BOARD NOMINAL 5/8" WITH TAPERED EDGES APPLIED VERTICALLY OR HORIZONTALLY ON ONE SIDE OF A 2X4 WOOD STUDS MAX 24" O.C. WITH 1" TYPE S SCREWS 7" O.C. AT PERIMETER, FIELD, AND TOP AND BOTTOM STUDS

THICKNESS: 11 7/8"

NOT FIRE-RATED- INTERIOR CMU WALL

STC 40 - 44

**A-600X** 7/8" THK STUCCO OVER METAL LATH OVER WEATHER BARRIER OVER EXTERIOR SHEATHING ON EACH SIDE OVER 2X8 WOOD STUDS 16" O.C. WITH 2-1/4" TYPE S OR W SCREWS 7" O.C. VERTICAL JOINTS STAGGERED 16" O.C. HORIZONTAL JOINTS STAGGERED AT 24" O.C. OPPOSITE SIDES. TESTED AT 5,156 LBS PER STUD OR 100 PERCENT OF DESIGN LOAD. (LOAD BEARING)

THICKNESS: 9"

EXTERIOR WALL

**600S** ONE LAYER 5/8" PROPRIETARY TYPE X APPLIED PARALLEL OR RIGHT ANGLES TO EACH SIDE OF 2X4 WOOD STUDS 16" O.C. STAGGERED 8" O.C. ON 2X6 TOP AND BOTTOM WOOD PLATES WITH 1-1/8" TYPE W SCREWS 7" O.C. 5/16" THK GLASS FIBER INSULATION, FRICTION FIT IN STUD CAVITY. JOINTS STAGGERED 16" O.C. SIDE BY SIDE. HORIZONTAL BRACING REQUIRED AT MID-HEIGHT. (LOAD BEARING)

THICKNESS: 6 3/4"

1HR - RATED

GA FILE NO. WP 3372

**601** ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED PARALLEL OR RIGHT ANGLES TO EACH SIDE OF 2X8 WOOD STUDS 16" O.C. WITH 2-1/4" TYPE S OR W SCREWS 7" O.C. VERTICAL JOINTS STAGGERED 16" O.C. HORIZONTAL JOINTS STAGGERED AT 24" O.C. OPPOSITE SIDES. TESTED AT 5,156 LBS PER STUD OR 100 PERCENT OF DESIGN LOAD. (LOAD BEARING)

THICKNESS: 6 3/4"

1HR - RATED

GA FILE NO. WP 3661

**602** ONE LAYER 5/8" GYPSUM WALLBOARD APPLIED PARALLEL OR RIGHT ANGLES TO EACH SIDE OF 2X8 WOOD STUDS 16" O.C. WITH 2-1/4" TYPE S OR W SCREWS 7" O.C. VERTICAL JOINTS STAGGERED 16" O.C. HORIZONTAL JOINTS STAGGERED AT 24" O.C. OPPOSITE SIDES. TESTED AT 5,156 LBS PER STUD OR 100 PERCENT OF DESIGN LOAD. (LOAD BEARING)

THICKNESS: 6 3/4"

1HR - RATED

GA FILE NO. WP 3661

**603S** ONE LAYER 5/8" PROPRIETARY TYPE X APPLIED PARALLEL OR RIGHT ANGLES TO EACH SIDE OF 2X4 WOOD STUDS 16" O.C. STAGGERED 8" O.C. ON 2X6 TOP AND BOTTOM WOOD PLATES WITH 1-1/8" TYPE W SCREWS 7" O.C. 5/16" THK GLASS FIBER INSULATION, FRICTION FIT IN STUD CAVITY. JOINTS STAGGERED 16" O.C. SIDE BY SIDE. HORIZONTAL BRACING REQUIRED AT MID-HEIGHT. (LOAD BEARING)

THICKNESS: 6 3/4"

INTERIOR

**800** 7/8" THICK GROUDED CMU WAL. SEE STRUCTURAL

THICKNESS: 7 5/8"

NOT FIRE-RATED- INTERIOR AND EXTERIOR CMU WALL

STC 40 - 44

- WALL TYPE GENERAL NOTES**
- PARTITIONS AND CEILINGS SHALL BE PLUMB AND/OR TRUE TO INTENDED LINE IN ACCORDANCE WITH THE TOLERANCES IN THE SPECIFICATIONS OR RECOMMENDED TRADE STANDARD, WHICHEVER IS MORE STRINGENT.
  - IN ACCORDANCE WITH **LVBC SECTION 703.7**, ANY FIRE RATED OR SMOKE RATED WALL WILL BE PERMANENTLY IDENTIFIED AS SUCH, AND LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING, AND/OR ATTIC SPACES, BE WITHIN 15' OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30' MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION, WITH IDENTIFICATION INCLUDING LETTERING NOT LESS THAN 3" IN HEIGHT WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR, AND INCORPORATING THE SUGGESTED WORDING "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER WORDING AS APPROVED BY THE FIRE MARSHALL OR AUTHORITY HAVING JURISDICTION.
  - ALL PENETRATIONS IN WALLS REQUIRED BY CODE TO HAVE PROTECTED OPENINGS SHALL BE FIRE STOPPED WITH MATERIAL THAT MEETS REQUIRED FIRE RATING OF WALL, TAPE AND FILL JOINTS AND SEAL PERIMETERS OF ALL SHAFTS AND PLENUMS SUCH THAT ASSEMBLIES ARE AIRTIGHT.
  - 1-1/2" COLD ROLLED CHANNELS OR 2X WOOD BLOCKING SHALL BE INSTALLED BETWEEN STUDS AT 48" O.C. MAXIMUM (HORIZONTAL) IN ALL PARTITIONS WHERE STUD SPAN IS GREATER THAN 8'-0" AFTER FINISH FLOOR AND SHALL CONTINUE TO UNDERSIDE OF THE FLOOR OR ROOF STRUCTURE ABOVE.
  - WHERE GYPSUM WALLBOARD AND/OR BACKING MATERIAL EXTENDS 6" ABOVE CEILING, CONTINUE STUDS AT 48" O.C. TO DECK ABOVE, OR PROVIDE KICKERS AT 48" O.C. ALTERNATING DIRECTIONS TO STRUCTURE ABOVE.
  - ALL SOUND ATTENUATION AND/OR INSULATED WALLS TO HAVE STUDS, INSULATION, GYPSUM WALLBOARD AND/OR BACKING MATERIAL EXTEND TO STRUCTURE ABOVE. SEAL ALL SOUND ATTENUATION WALLS WITH ACOUSTICAL SEALANT AT BOTH TOP AND BOTTOM OF WALL, BOTH SIDES. REFER TO ACOUSTICAL REPORT FOR ACOUSTICAL SEALANT TO MATCH WALL FIRE RATING.
  - THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED WALLS, FLOORS, AND CEILING STRUCTURES AS REQUIRED TO RECEIVE NEW WORK.
  - THE CONTRACTOR SHALL COORDINATE AND PROVIDE ALL BLOCKING AND PENETRATIONS REQUIRED FOR THE PROPER INSTALLATION OF ALL CABINETS, ACCESSORIES, FIXTURES, FURNISHINGS, AREAS OF DISPLAY AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THIS REQUIREMENT INCLUDES ITEMS THAT ARE OWNER SUPPLIED. COORDINATE WITH ALL DISCIPLINES THAT REQUIRE BACKING BEHIND WALLS.
  - PROVIDE 5/8" CEMENT BACKERBOARD BEHIND ALL WALL TILE AND 5/8" MOLD RESISTANT GYPSUM BOARD, INCLUDING BUT NOT LIMITED TO A MINIMUM OF 48" ON ALL SIDES OF AND INCLUDING AREAS BEHIND PLUMBING FIXTURES. ALL WALLS AND CEILINGS WITHIN THE RESTROOMS, BATHROOMS, UTILITY/STORAGE ROOMS, JANITOR'S CLOSETS AND KITCHENS
  - HEAD TRACKS SHALL BE DEEP ENOUGH TO ALLOW A 1/2" STRUCTURAL DEFLECTION WITHOUT COMPRESSING, BUCKLING OR OTHERWISE DAMAGING THE ASSEMBLIES. INSTALL 2-1/2" DEEP HEAD TRACKS AT PARTITIONS UNDER BEAMS. PLACE PRIOR TO FIREPROOFING APPLICATION. SET STUDS IN HEAD TRACKS, ALLOWING FOR 1/2" CLEARANCE AT THE TOP AND SECURE BY CRIMPING ON EACH SIDE OF STUD. DO NOT USE SCREWS UNLESS SPECIFICALLY REQUIRED ELSEWHERE IN THE DRAWINGS OR SPECIFICATIONS.
  - PRE DRYWALL INSPECTIONS OF AIR SEALING AND INSULATION INSTALLATION REQUIRED. MUST ACHIEVE RESIDENTIAL ENERGY SERVICES NETWORK (RESNET) GRADE 1.
  - INSTALL INSULATION AGAINST ROOF SHEATHING AND ELIMINATE ATTIC VENTILATION.
  - CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS LISTED WITHIN 2021 INTERNATIONAL BUILDING CODE SECTION 1206 FOR AIRBORNE AND STRUCTURE-BORNE SOUND REQUIREMENTS. CONTRACTOR MAY BE REQUIRED TO EXCEED LISTINGS PROVIDED AND SHALL INCLUDE ALL ELEMENTS NOT LISTED TO MEET ALL 2021 IBC REQUIREMENTS WITHIN THE BASE BID OF THE CONTRACT

**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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07.15.24

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**PROJECT:** SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave, Las Vegas, NV 89106

**SHEET TITLE:** WALL TYPES

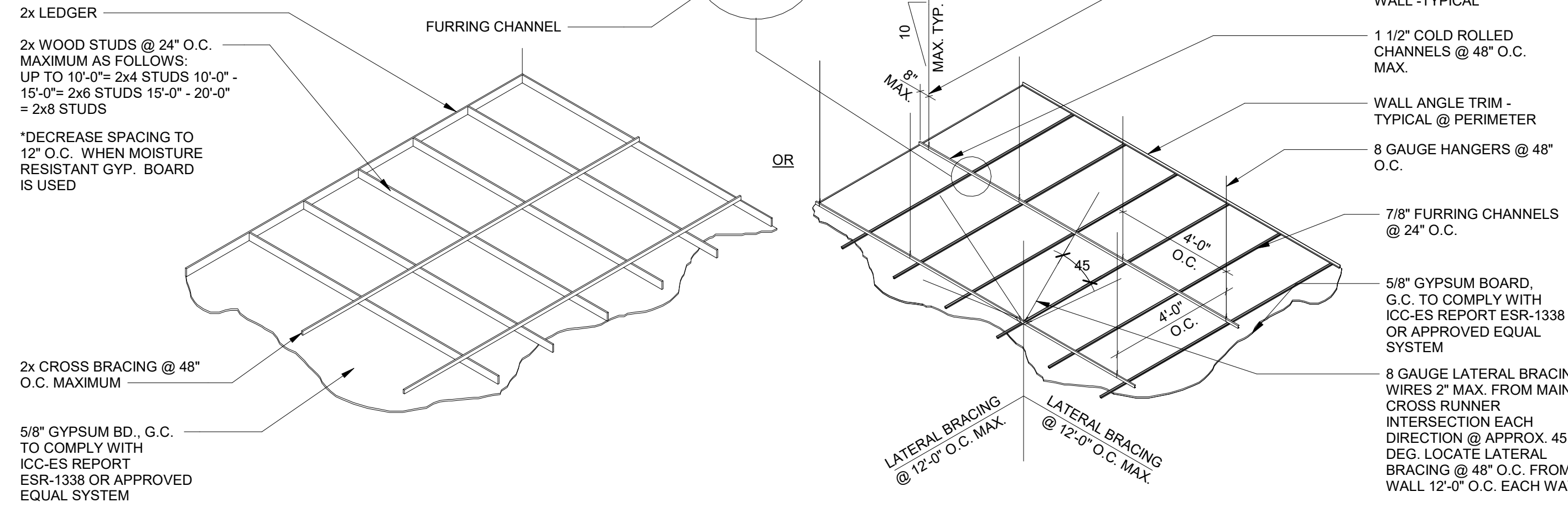
**REVISIONS**

No.	Description	Date
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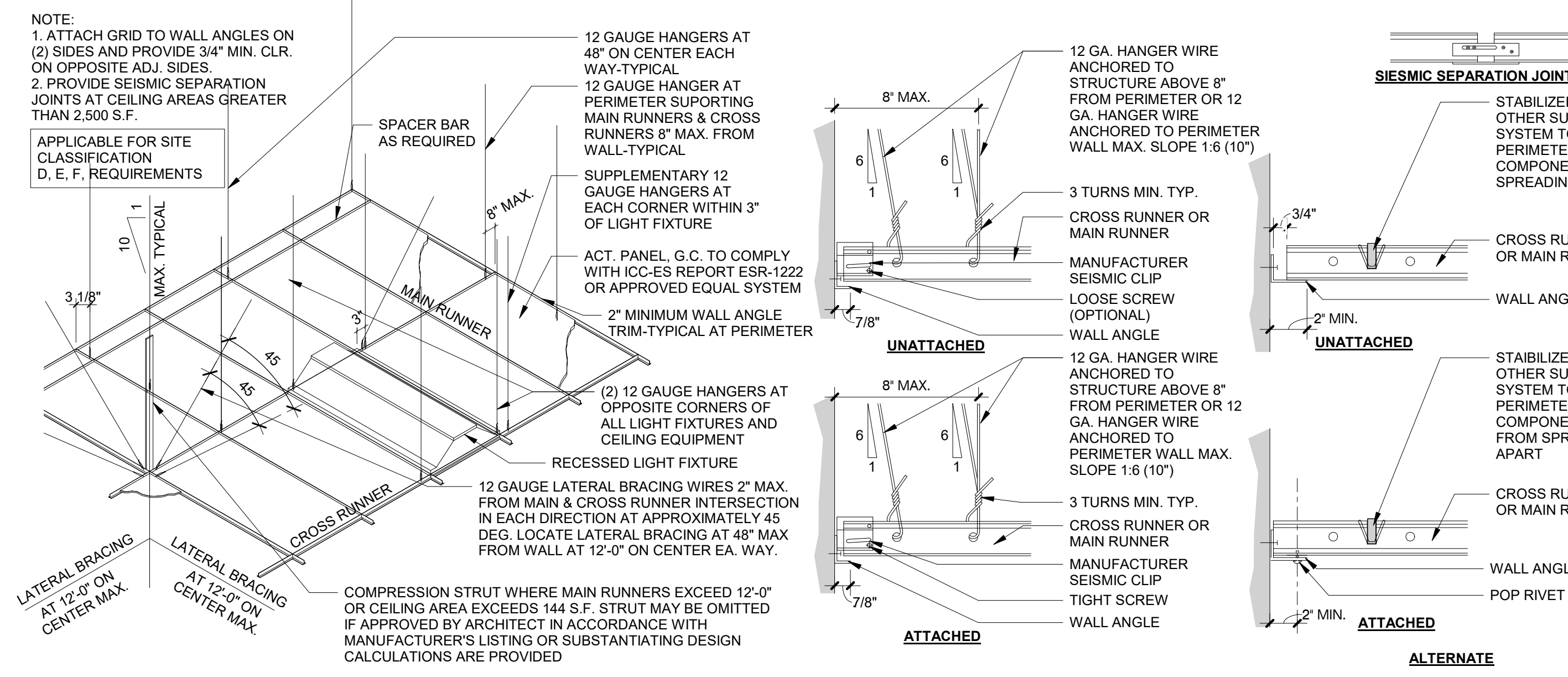
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JOB NO: 2023-014  
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CHECK SCALE DRAWINGS

SHEET  
**A8.00**

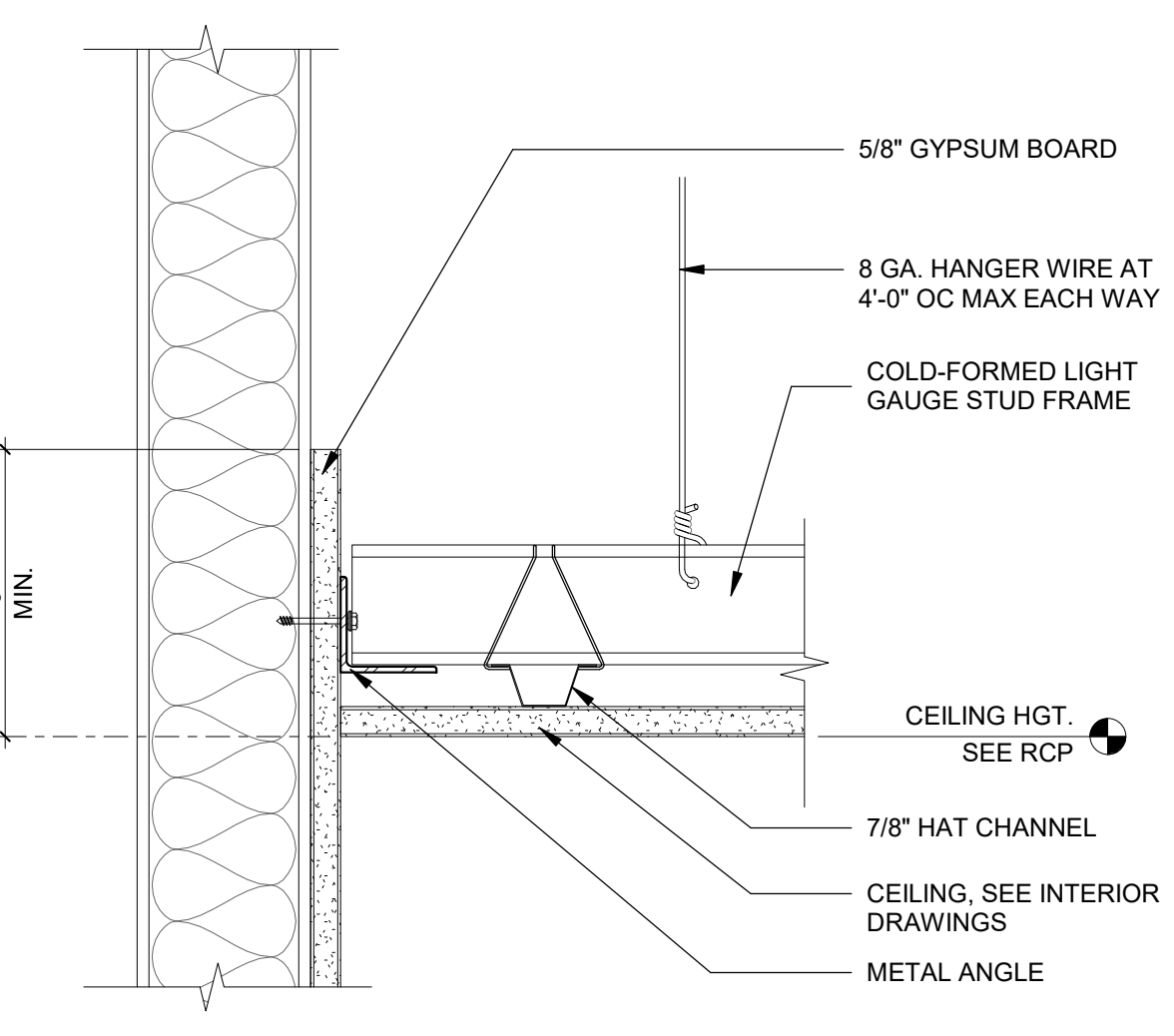
NOTE:  
CONTRACTOR TO PROVIDE A LISTING REPORT FOR THE INSTALLED CEILINGS. CONTRACTOR SHALL MAINTAIN ON-SITE A COPY OF THIS REPORT TO PROVIDE TO THE INSPECTOR.



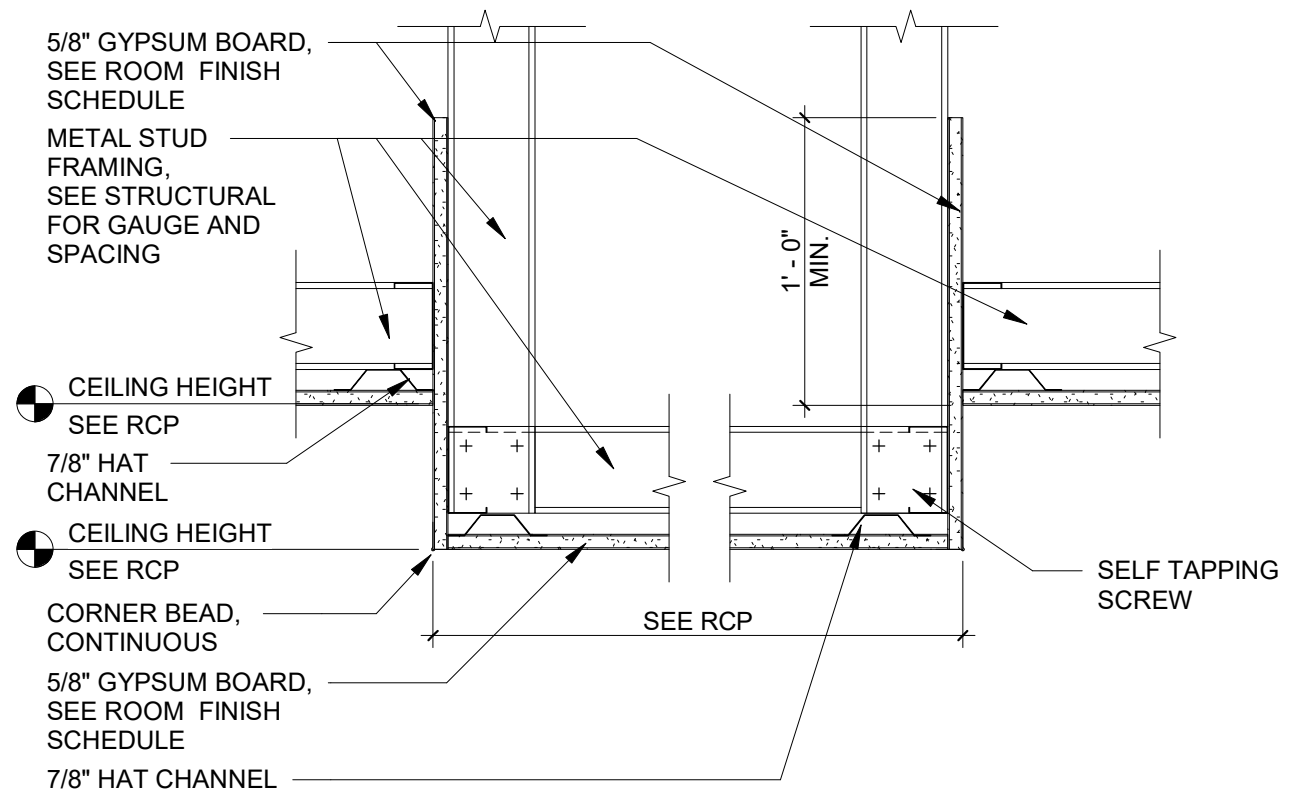
**11 SUSPENDED GYP. BD CEILING**  
SCALE: 3" = 1'-0"



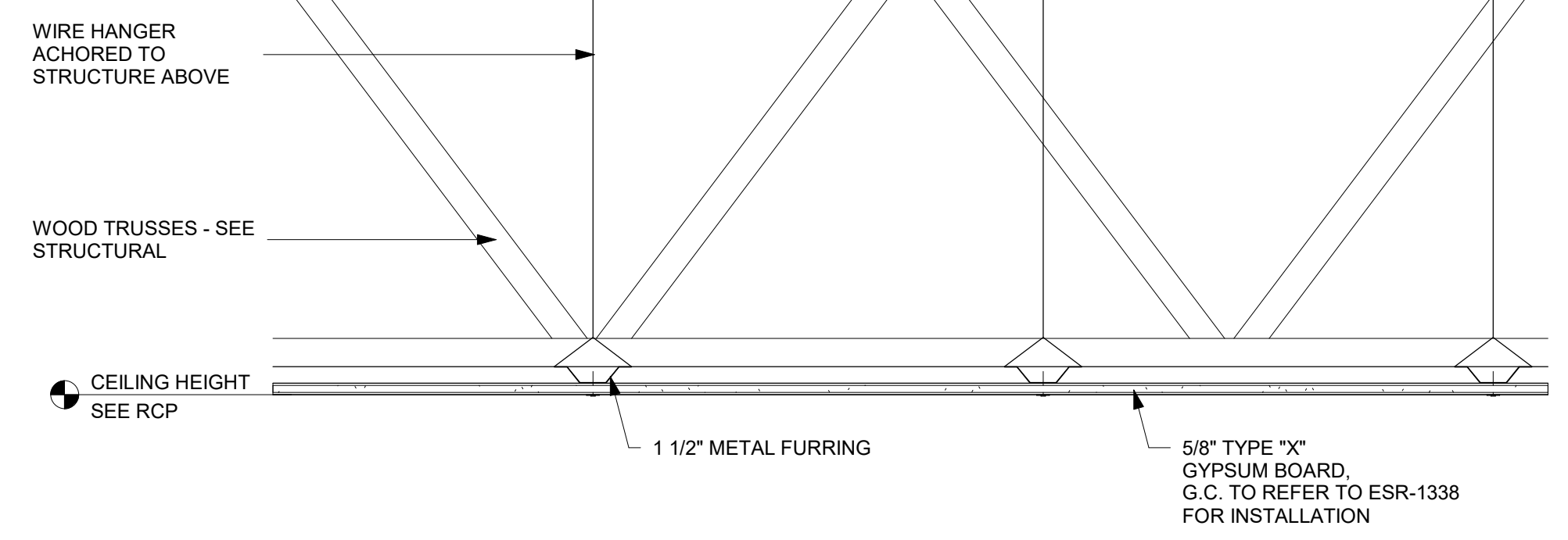
**10 SUSPENDED ACOUSTICAL CEILING TILE - SEISMIC ZONES D, E & F**  
SCALE: 1/2" = 1'-0"



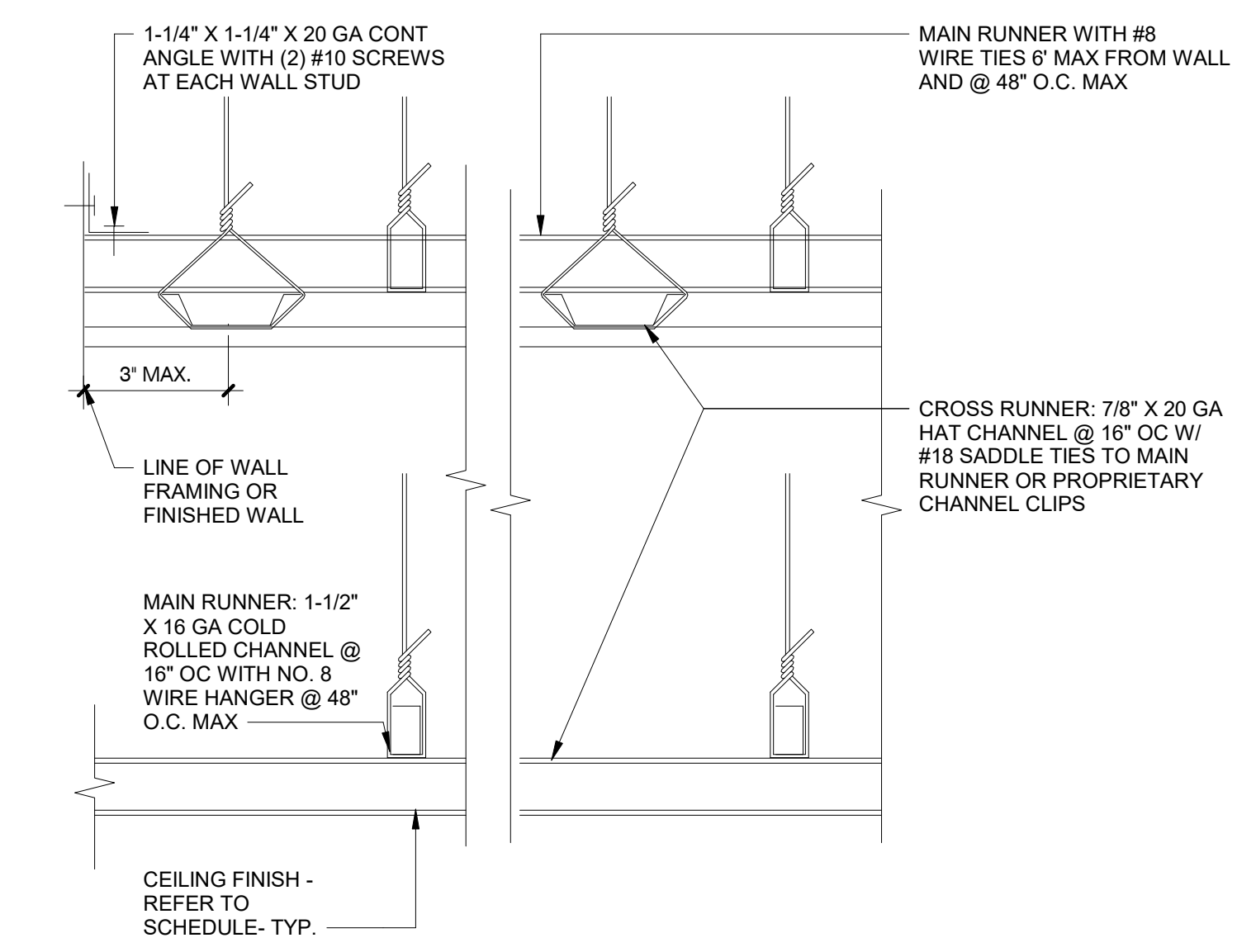
**9 PERIMETER SUSPENDED CEILING, TYPICAL**  
SCALE: 3" = 1'-0"



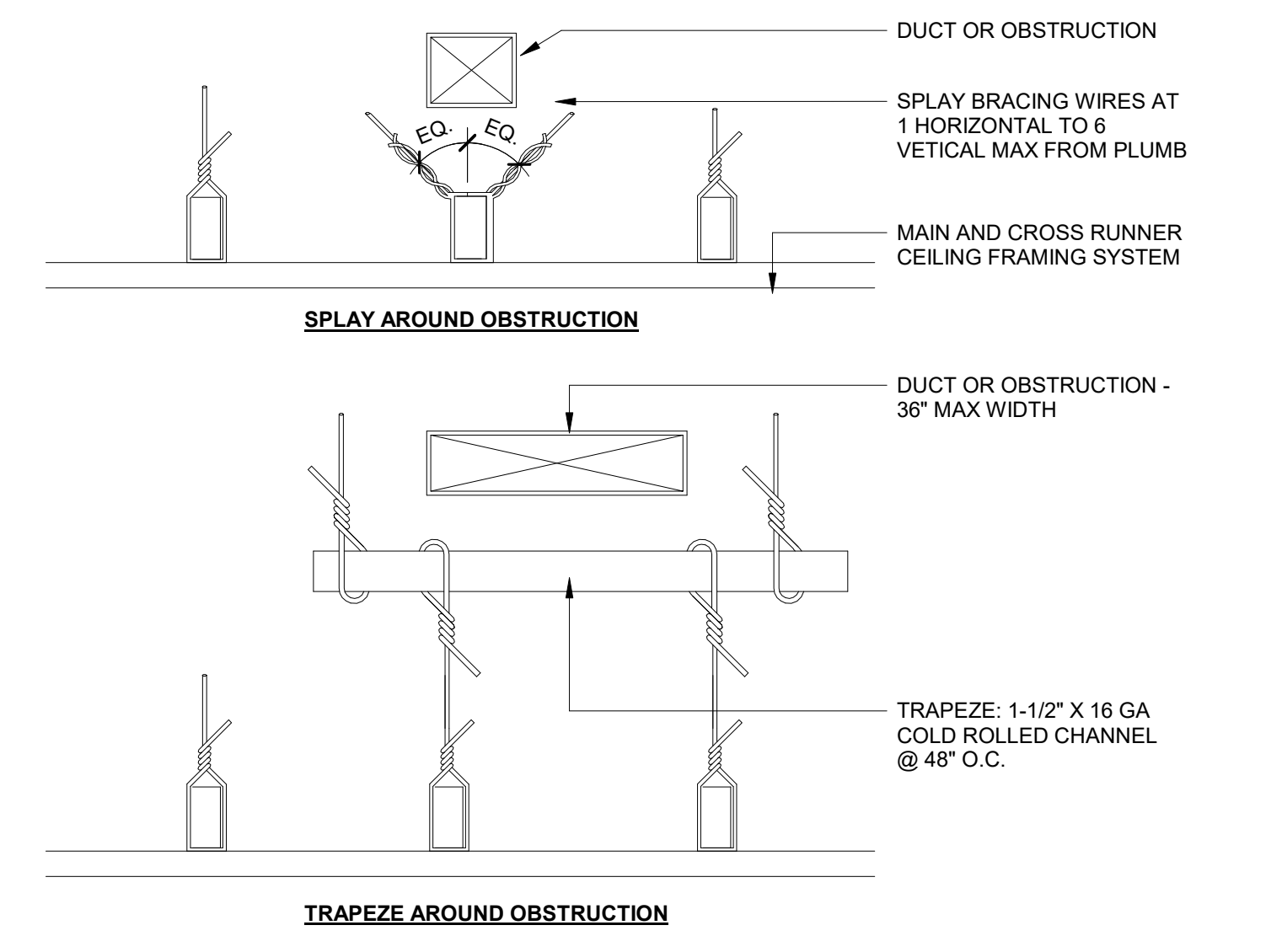
**6 SOFFIT CEILING DETAIL**  
SCALE: 1 1/2" = 1'-0"



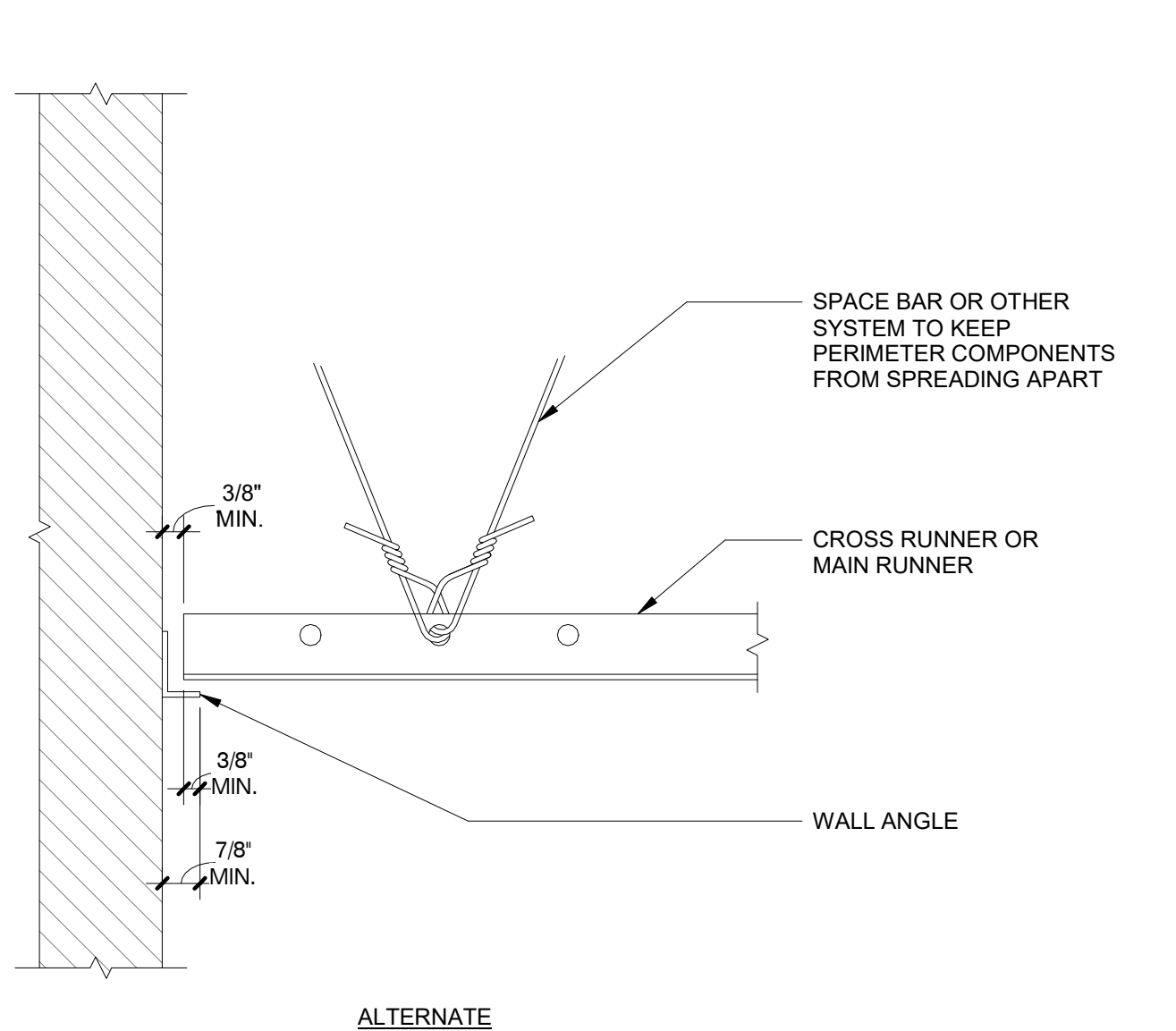
**7 DETAIL @ HARD LID CEILING**  
SCALE: 1 1/2" = 1'-0"



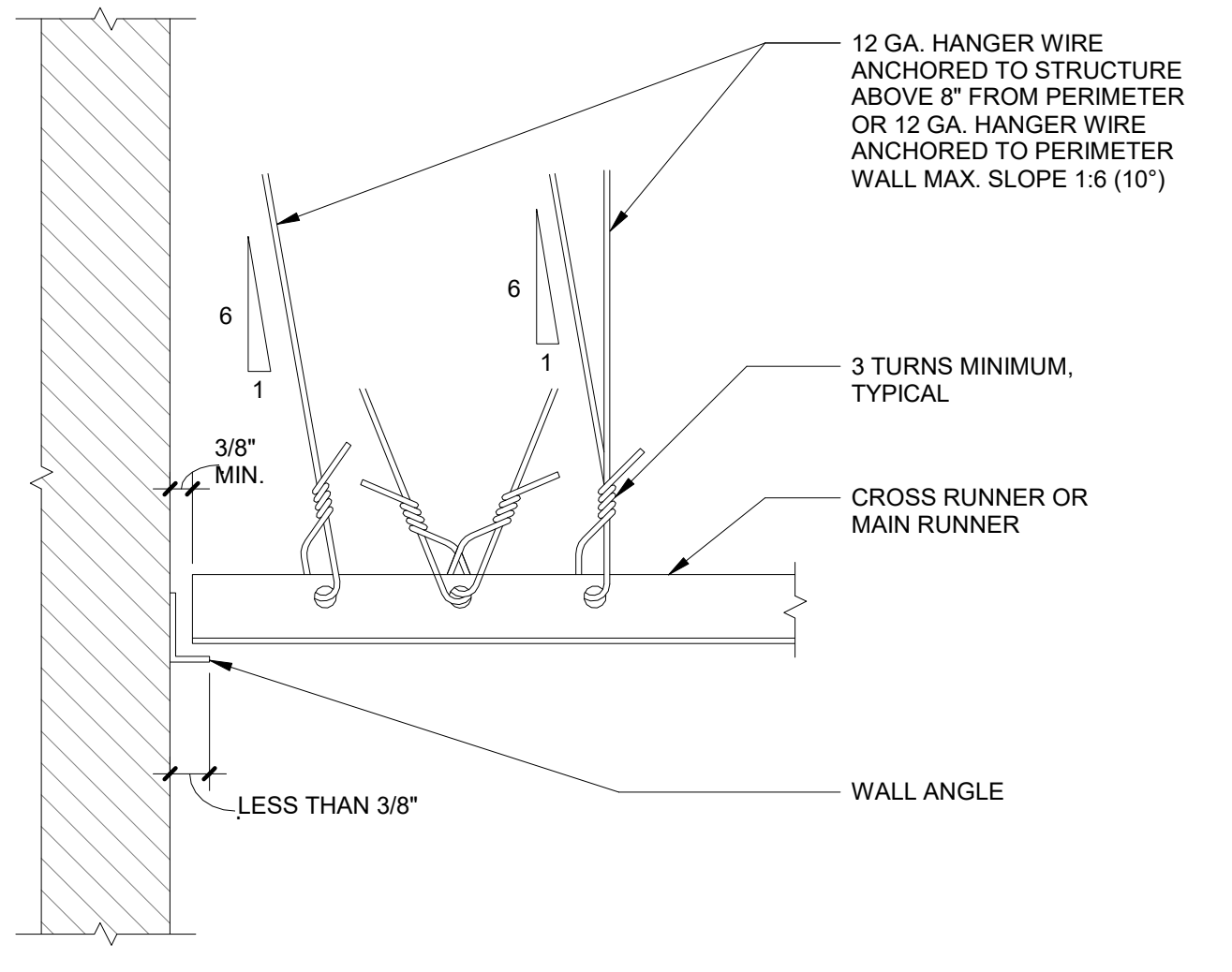
**5 CEILING DETAIL**  
SCALE: 3" = 1'-0"



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



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



**1 CEILING DETAIL C**  
SCALE: 1" = 1'-0"

**KME ARCHITECTS**  
5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave., Las Vegas, NV 89106

**SHEET TITLE:**  
CEILING DETAILS

REVISIONS		
No.	Description	Date
1	CLV COM.	6/21/24

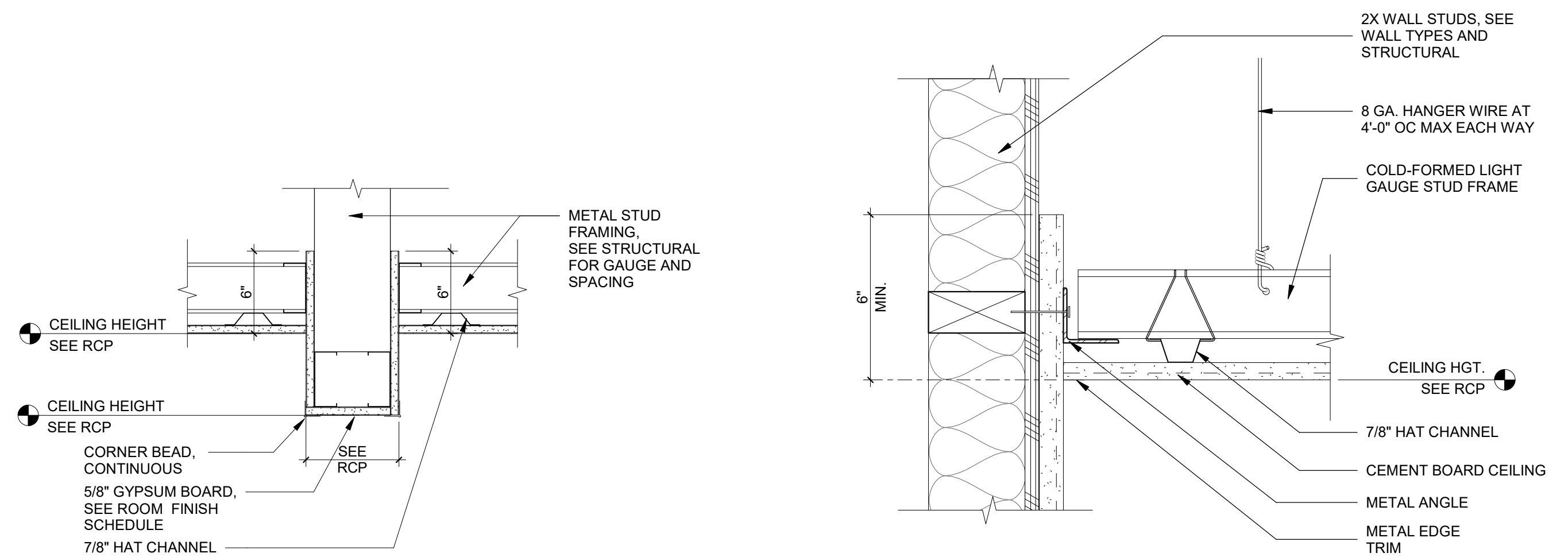
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**DATE:**  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED  
20/23 SCALE DRAWINGS

**SHEET**  
**A8.10**

No.	Description	Date
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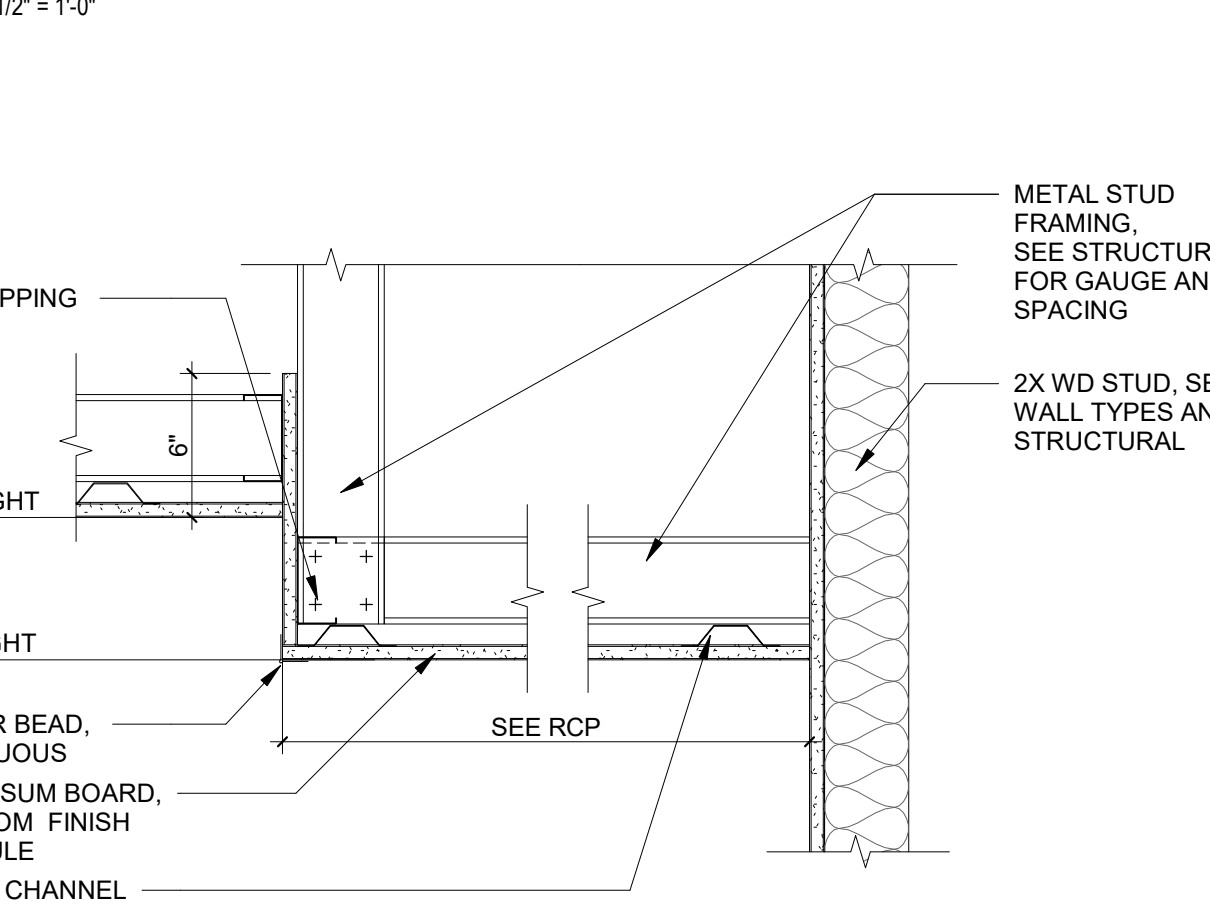
DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET

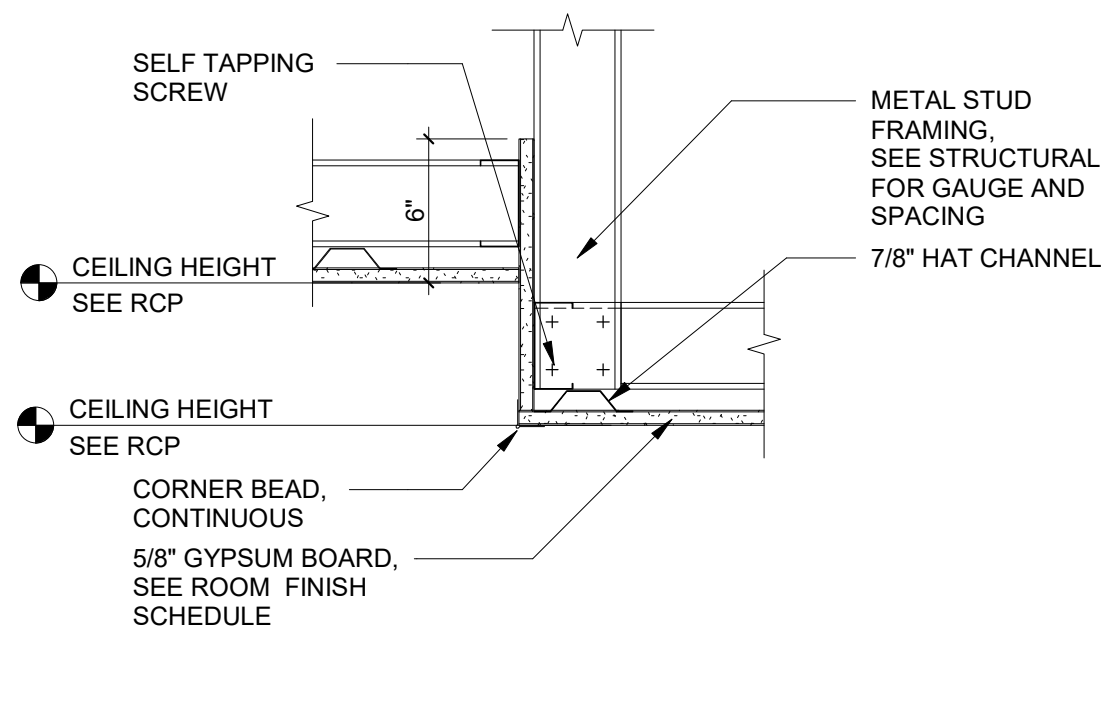


2 PERIMETER SUSPENDED CEILING - EXTERIOR  
SCALE: 3" = 1'-0"

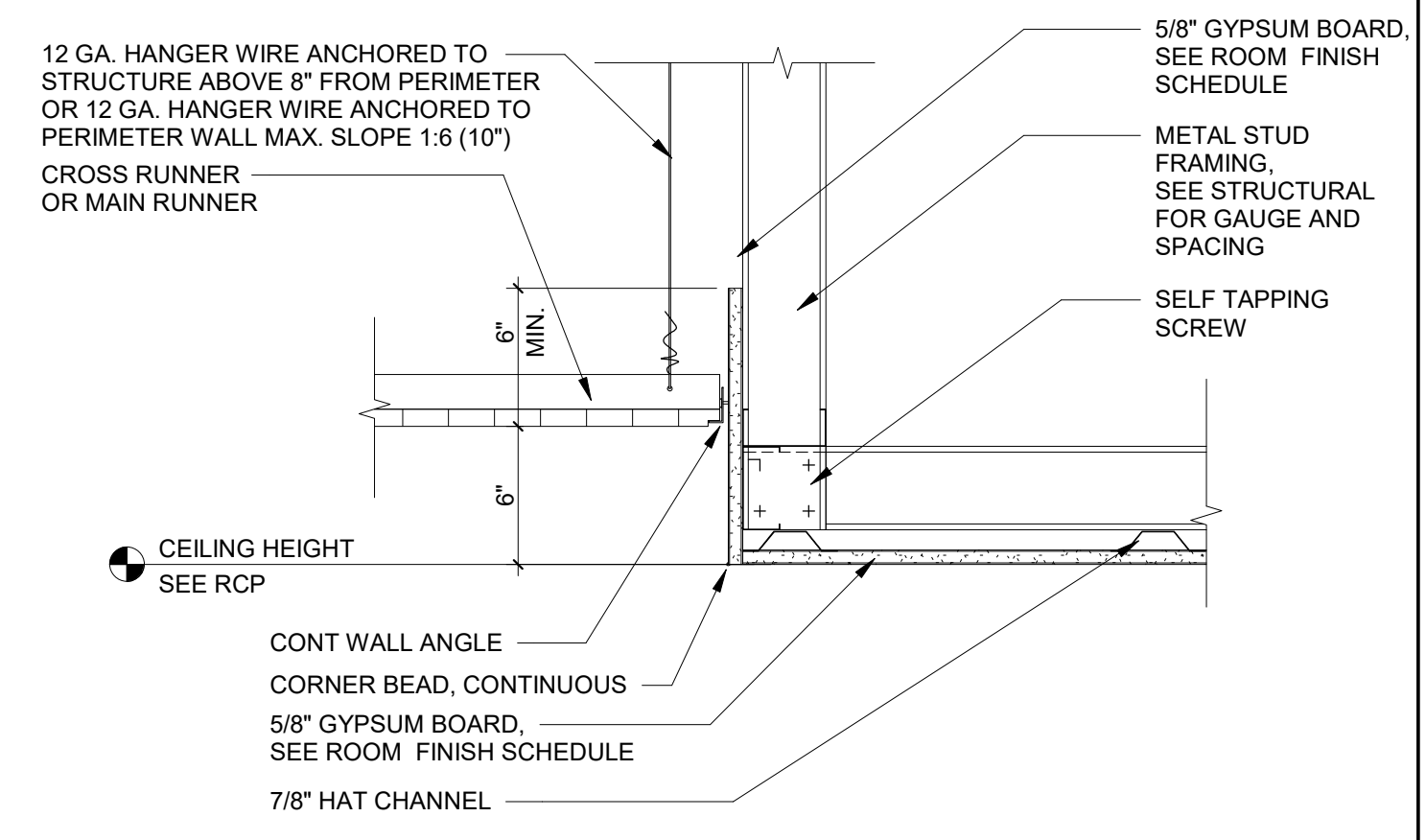
4 HEADER DETAIL  
SCALE: 1 1/2" = 1'-0"



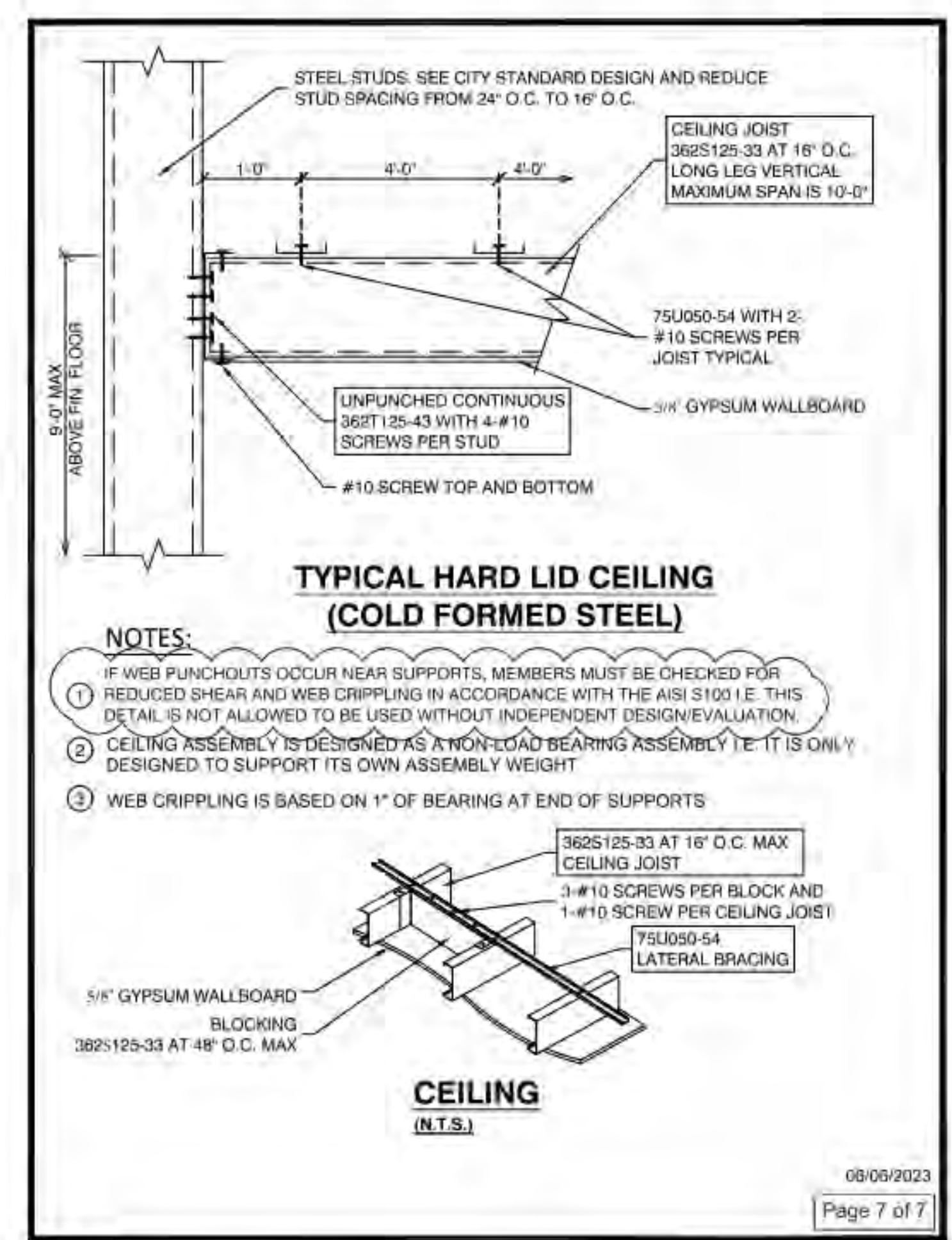
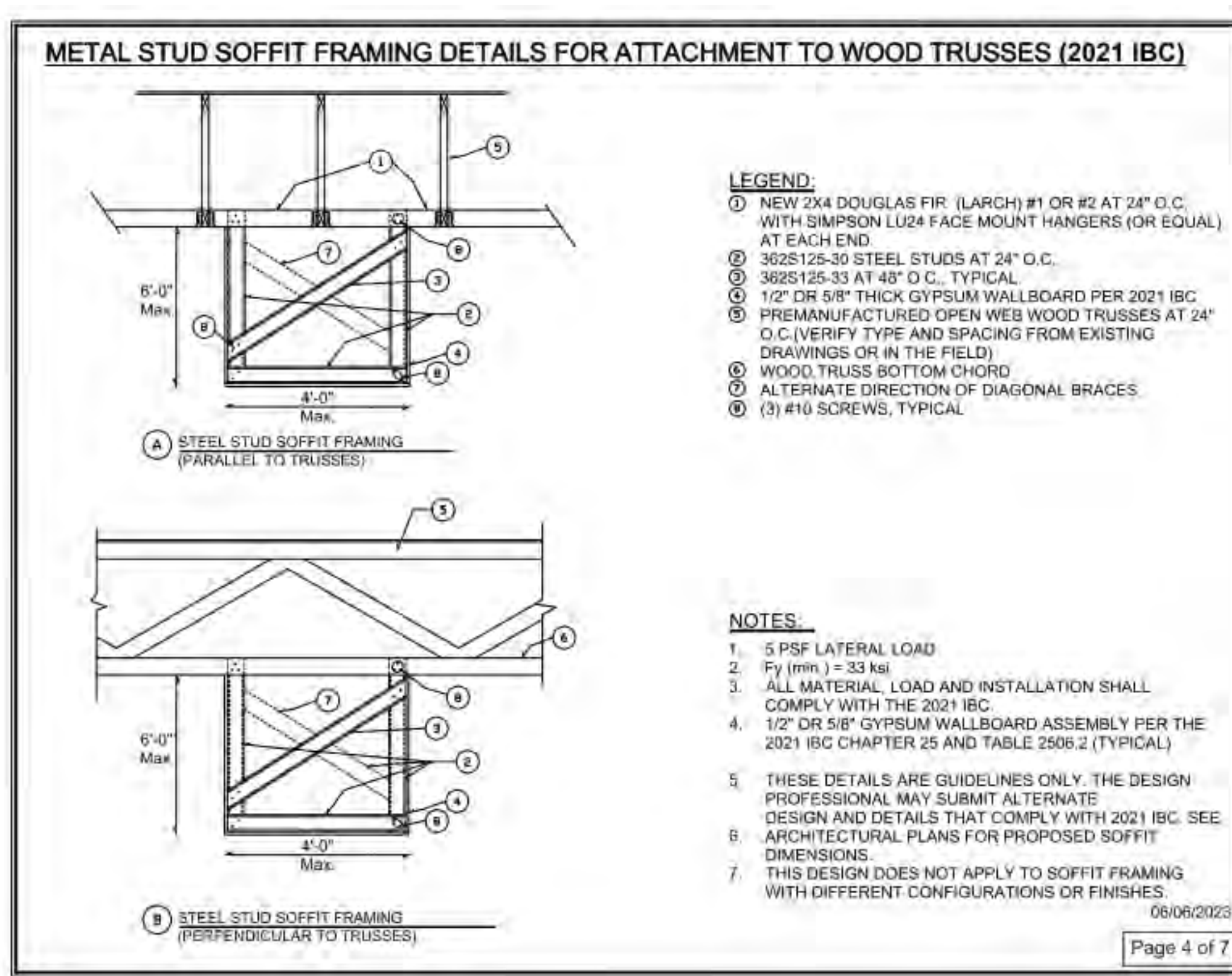
3 SOFFIT CEILING AT WALL  
SCALE: 1 1/2" = 1'-0"



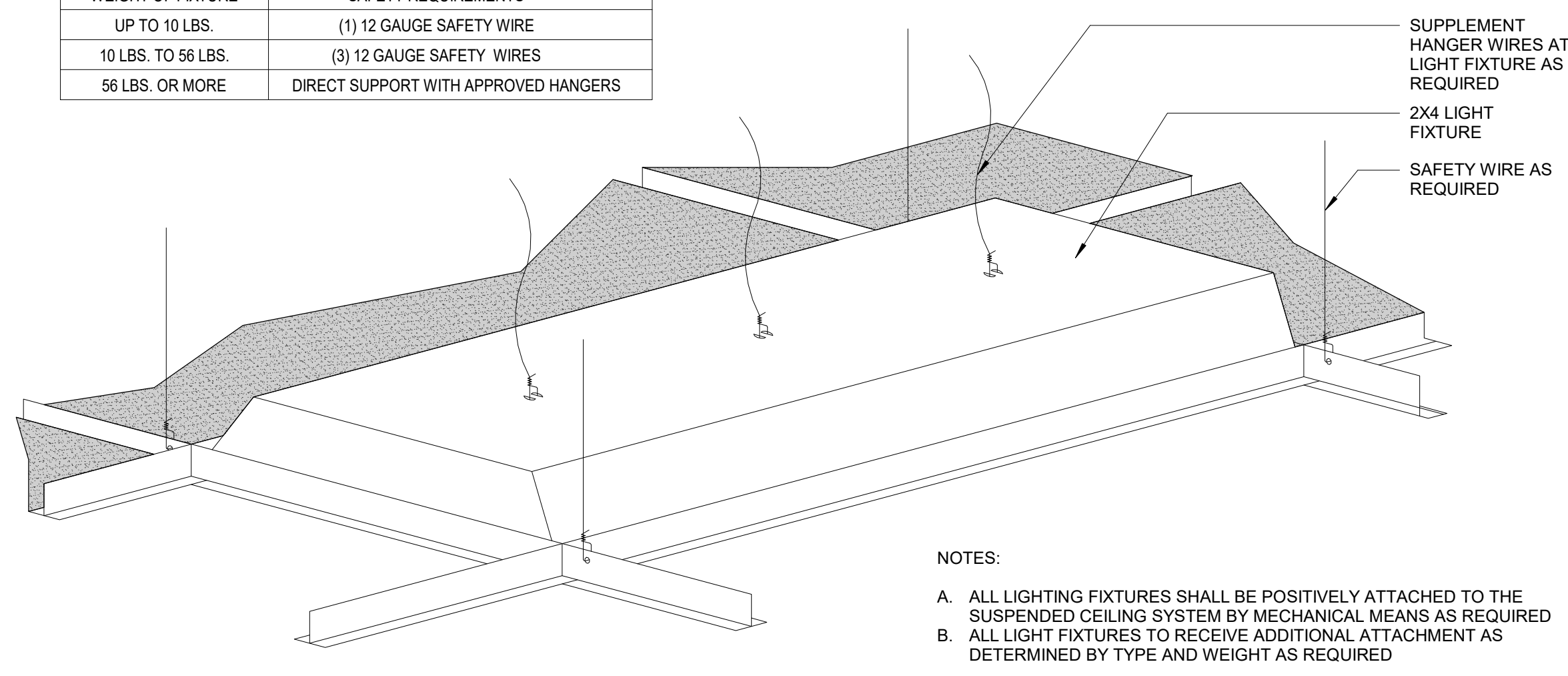
6 SOFFIT CEILING  
SCALE: 1 1/2" = 1'-0"



1 SOFFIT CEILING WITH ACOUSTICAL CEILING TILE DETAIL  
SCALE: 1 1/2" = 1'-0"



LIGHT FIXTURE SAFETY ATTACHMENT	
WEIGHT OF FIXTURE	SAFETY REQUIREMENTS
UP TO 10 LBS.	(1) 12 GAUGE SAFETY WIRE
10 LBS. TO 56 LBS.	(3) 12 GAUGE SAFETY WIRES
56 LBS. OR MORE	DIRECT SUPPORT WITH APPROVED HANGERS



NOTES:  
A. ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS AS REQUIRED  
B. ALL LIGHT FIXTURES TO RECEIVE ADDITIONAL ATTACHMENT AS DETERMINED BY TYPE AND WEIGHT AS REQUIRED

5 CEILING AT LIGHT FIXTURE, TYPICAL  
SCALE: 1 1/2" = 1'-0"

1

2

3

4

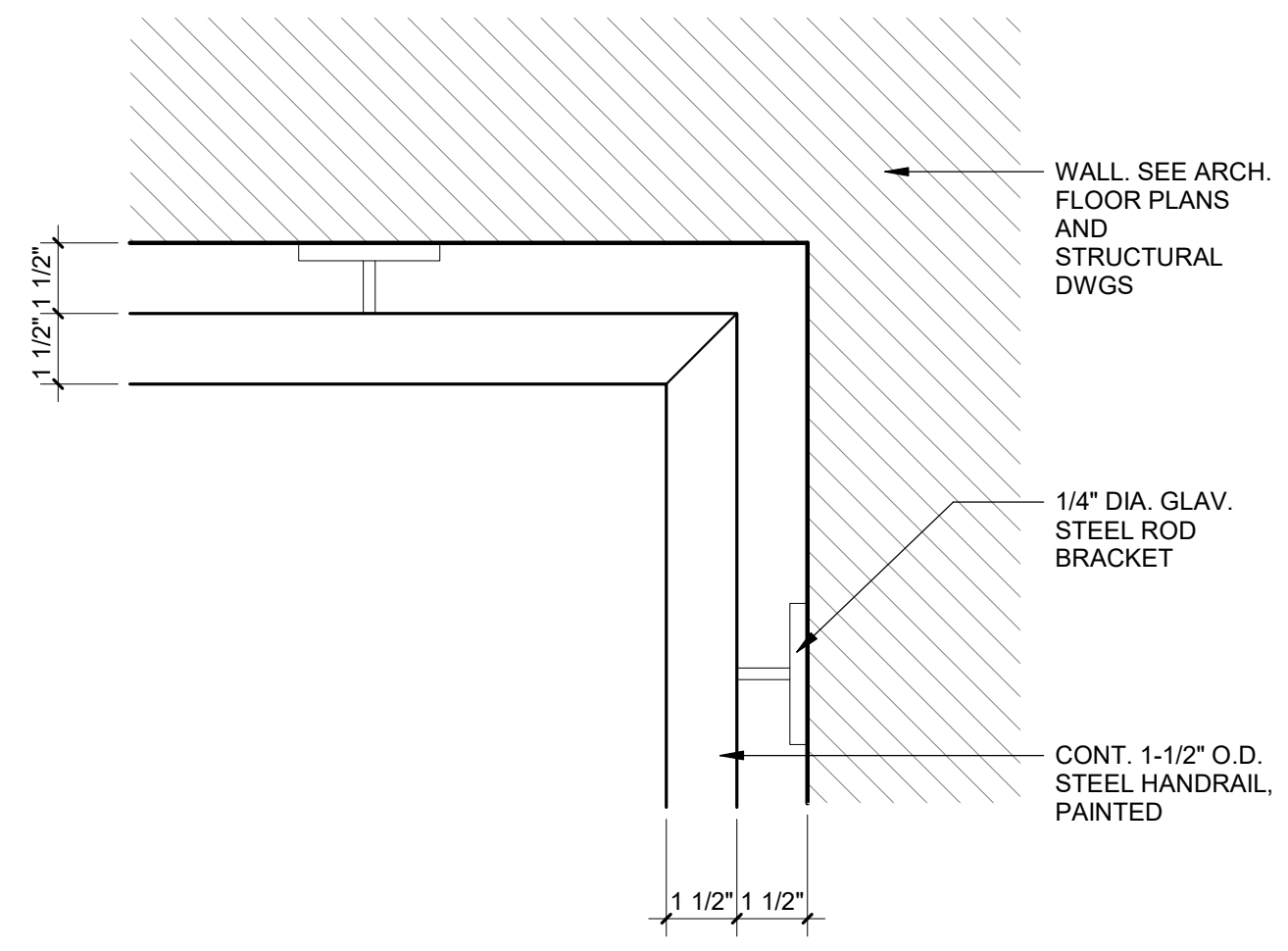
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D

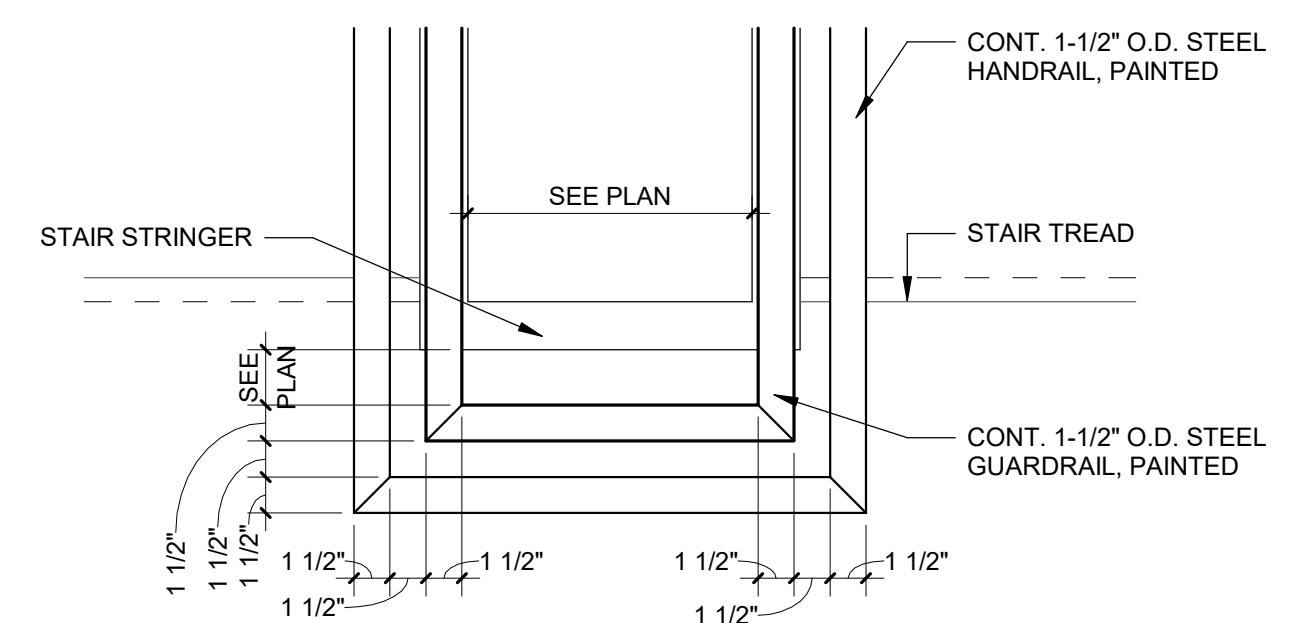
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B

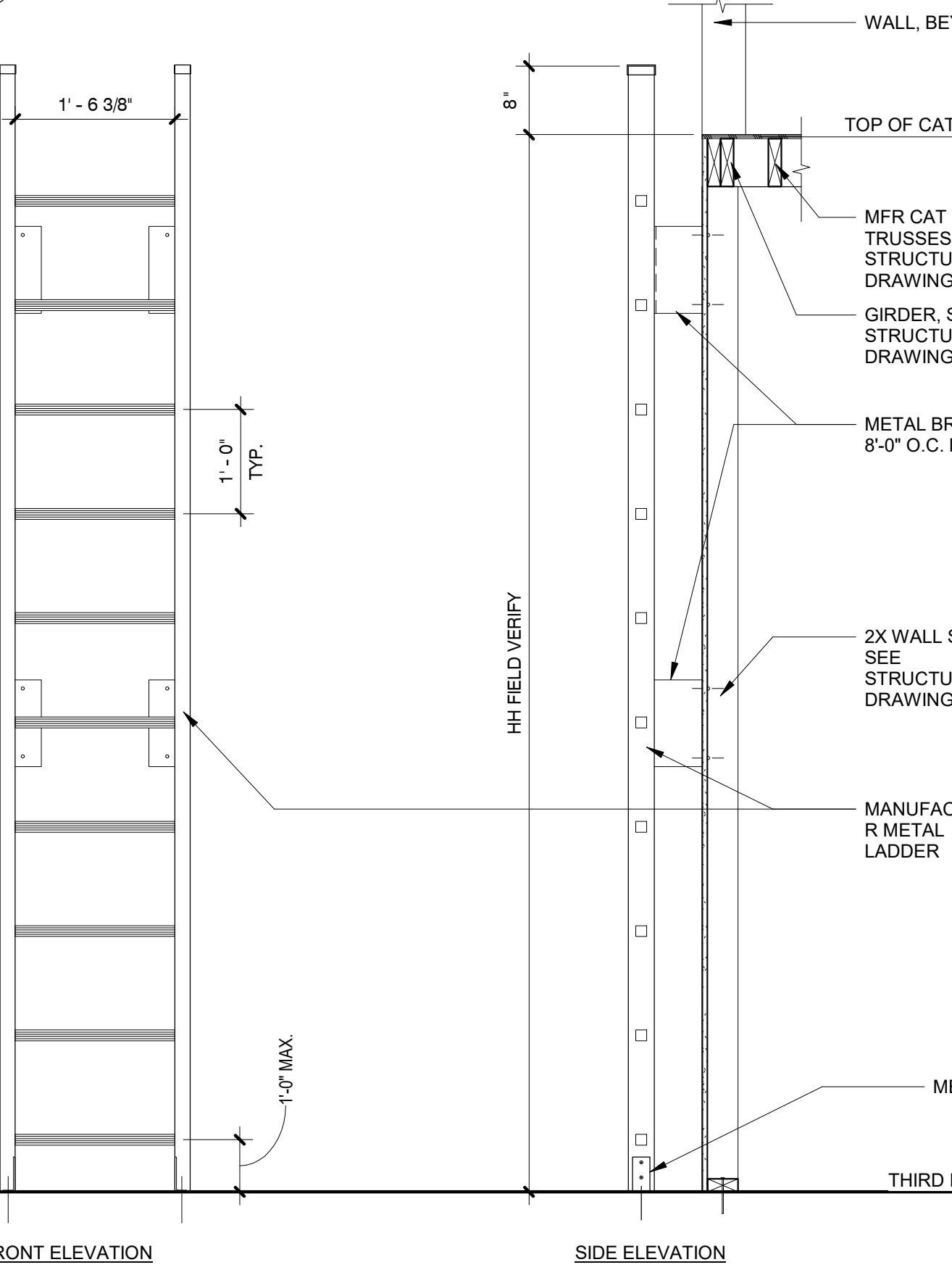
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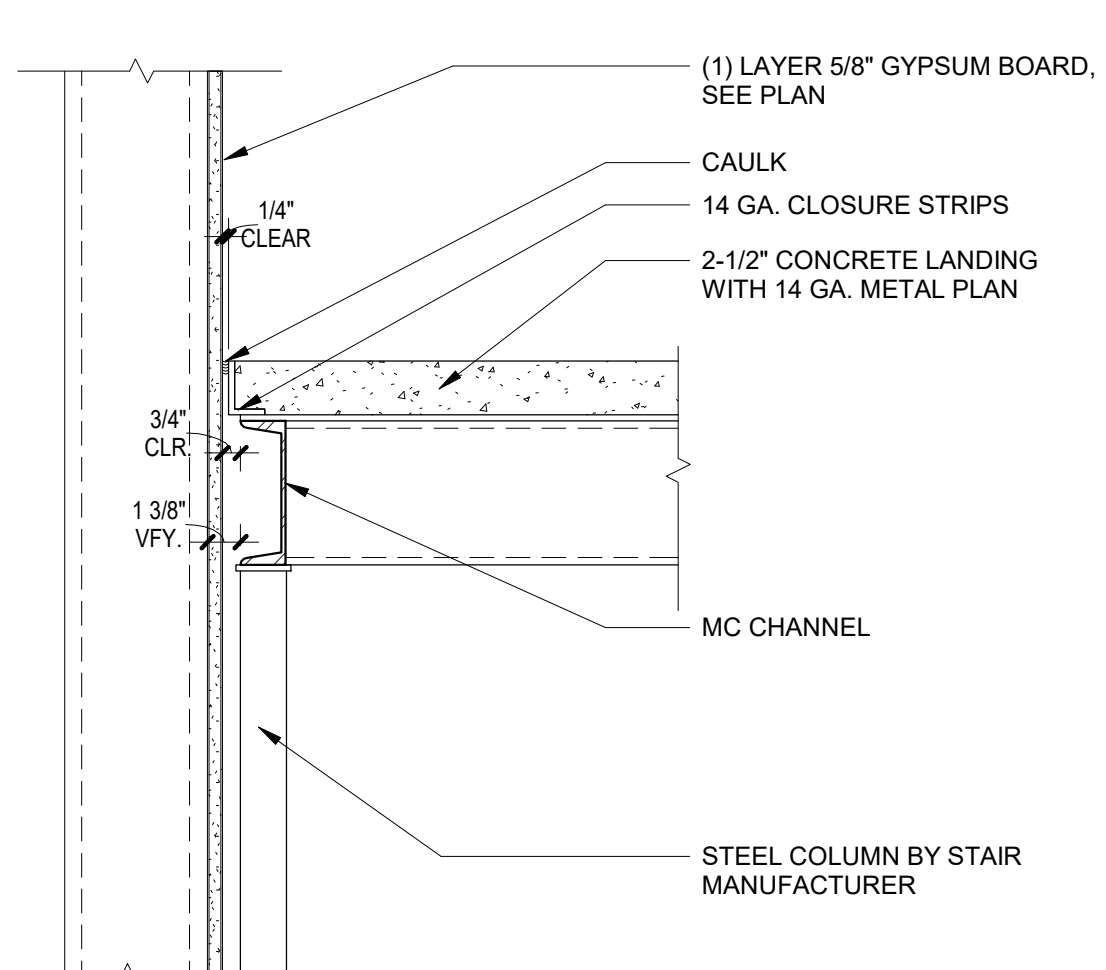
**15 HAND RAILING DETAIL AT CORNER**  
SCALE: 3/4" = 1'-0"



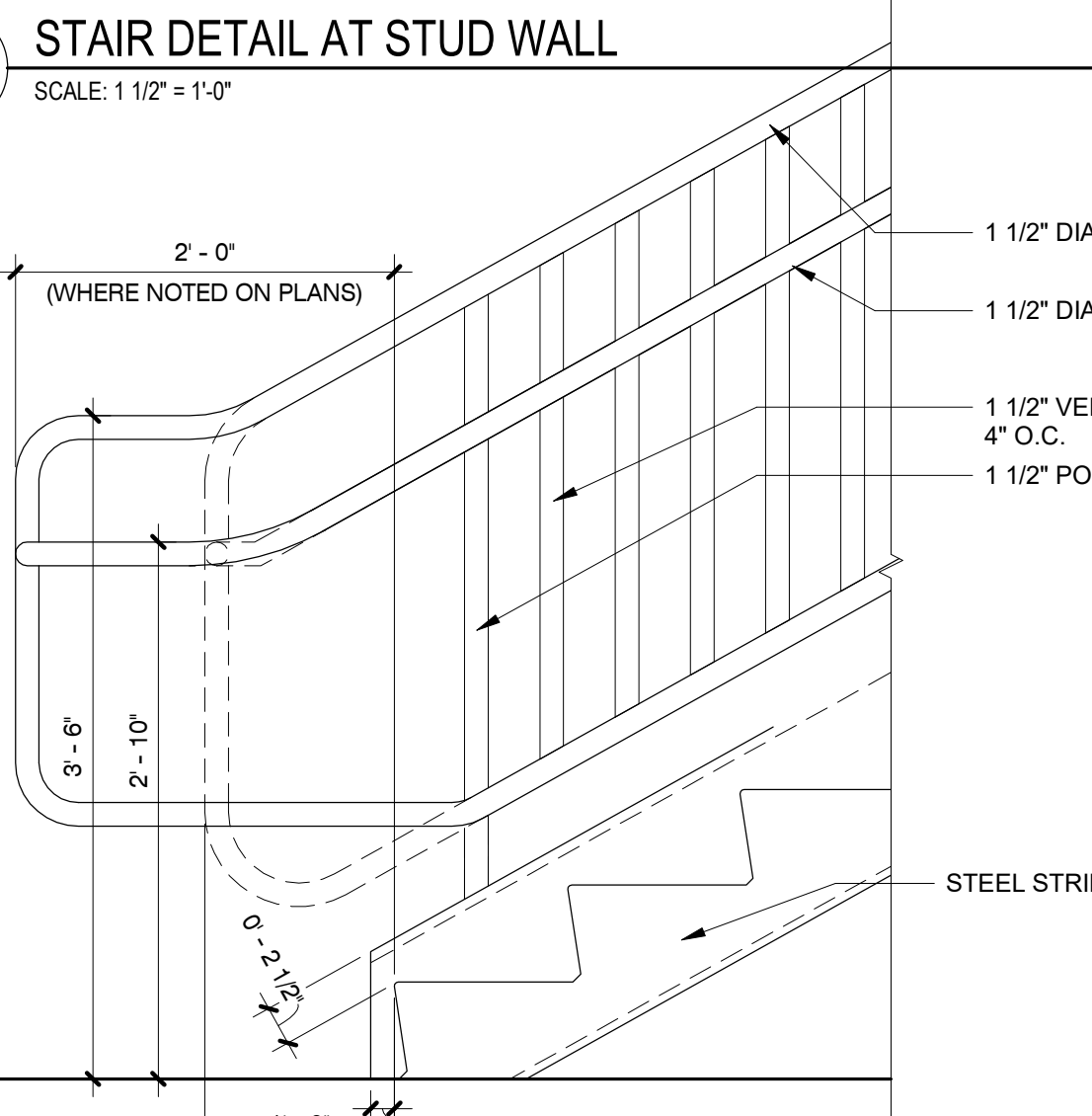
**14 STAIR RAILING DETAIL AT LANDING**  
SCALE: 1 1/2" = 1'-0"



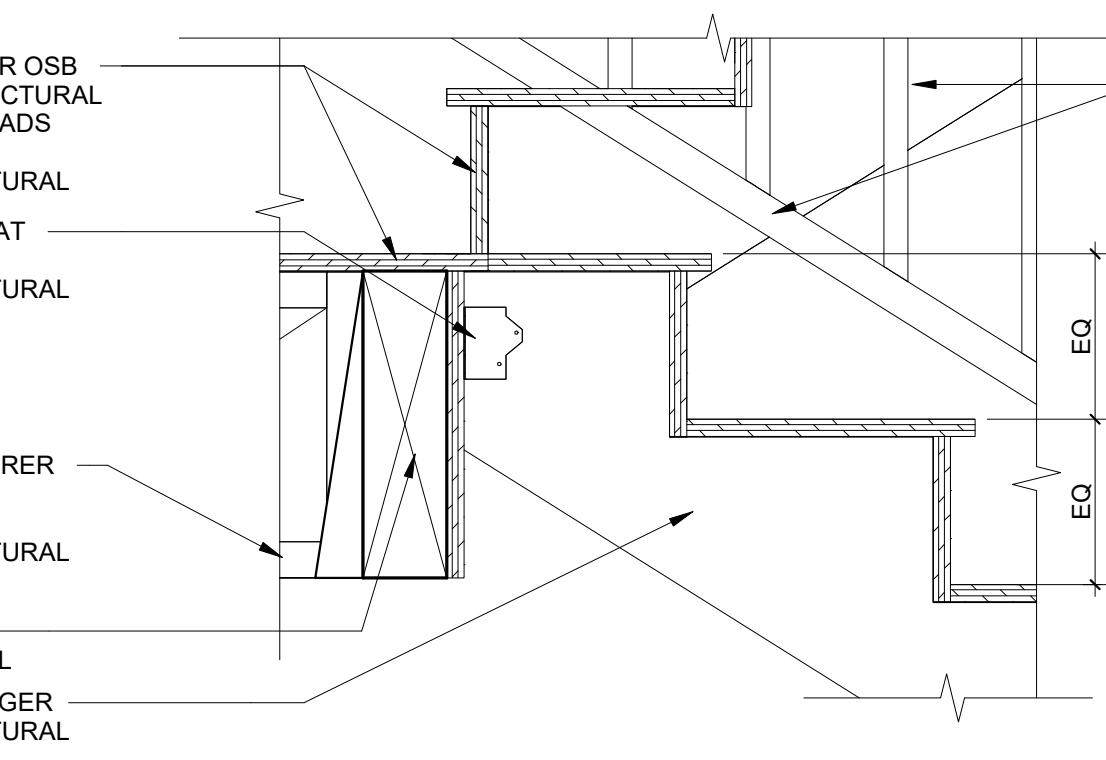
**13 ROOF HATCH ACCESS**  
SCALE: 3/4" = 1'-0"



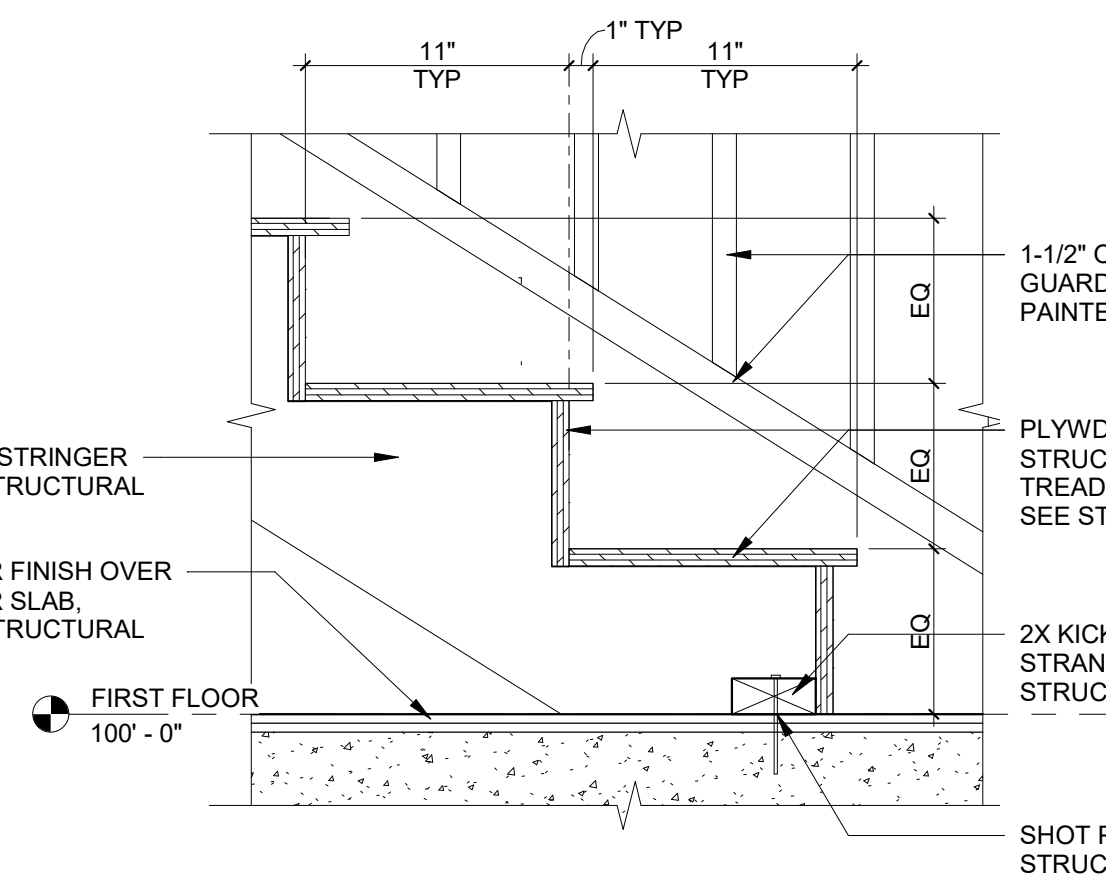
**4 STAIR DETAIL AT STUD WALL**  
SCALE: 1 1/2" = 1'-0"



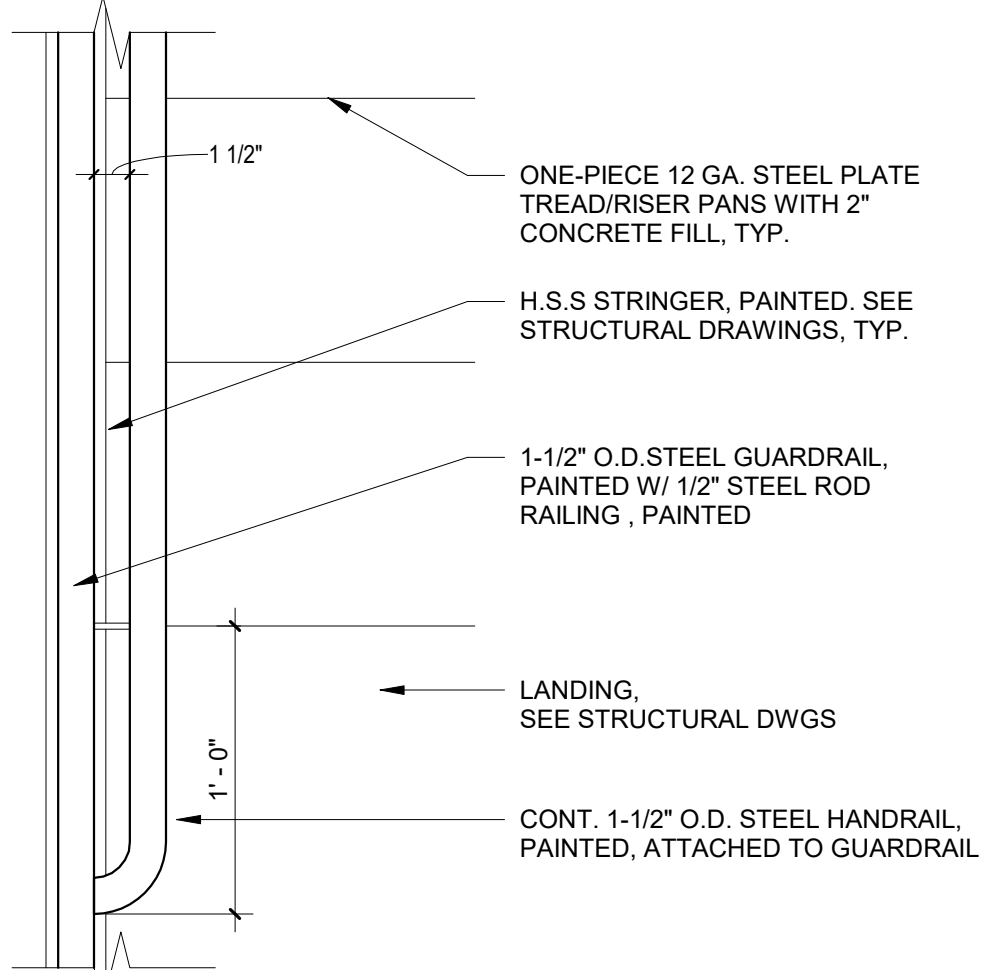
**11 DETAIL**  
SCALE: 1" = 1'-0"



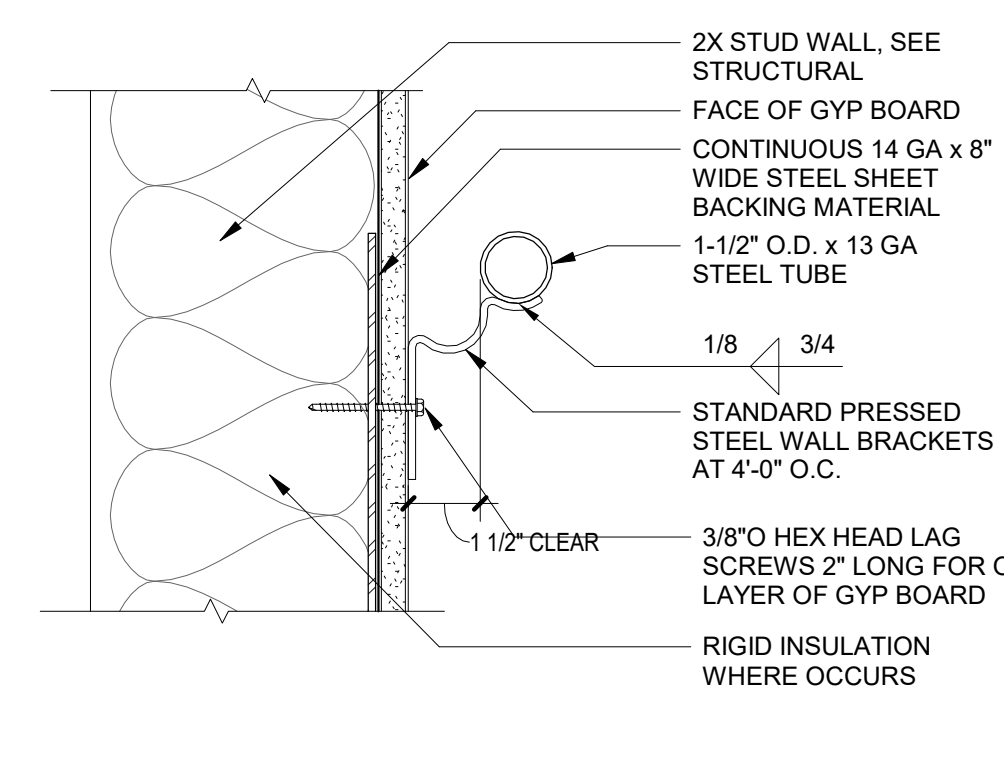
**10 STAIR LANDING DETAIL - LOBBY**  
SCALE: 1 1/2" = 1'-0"



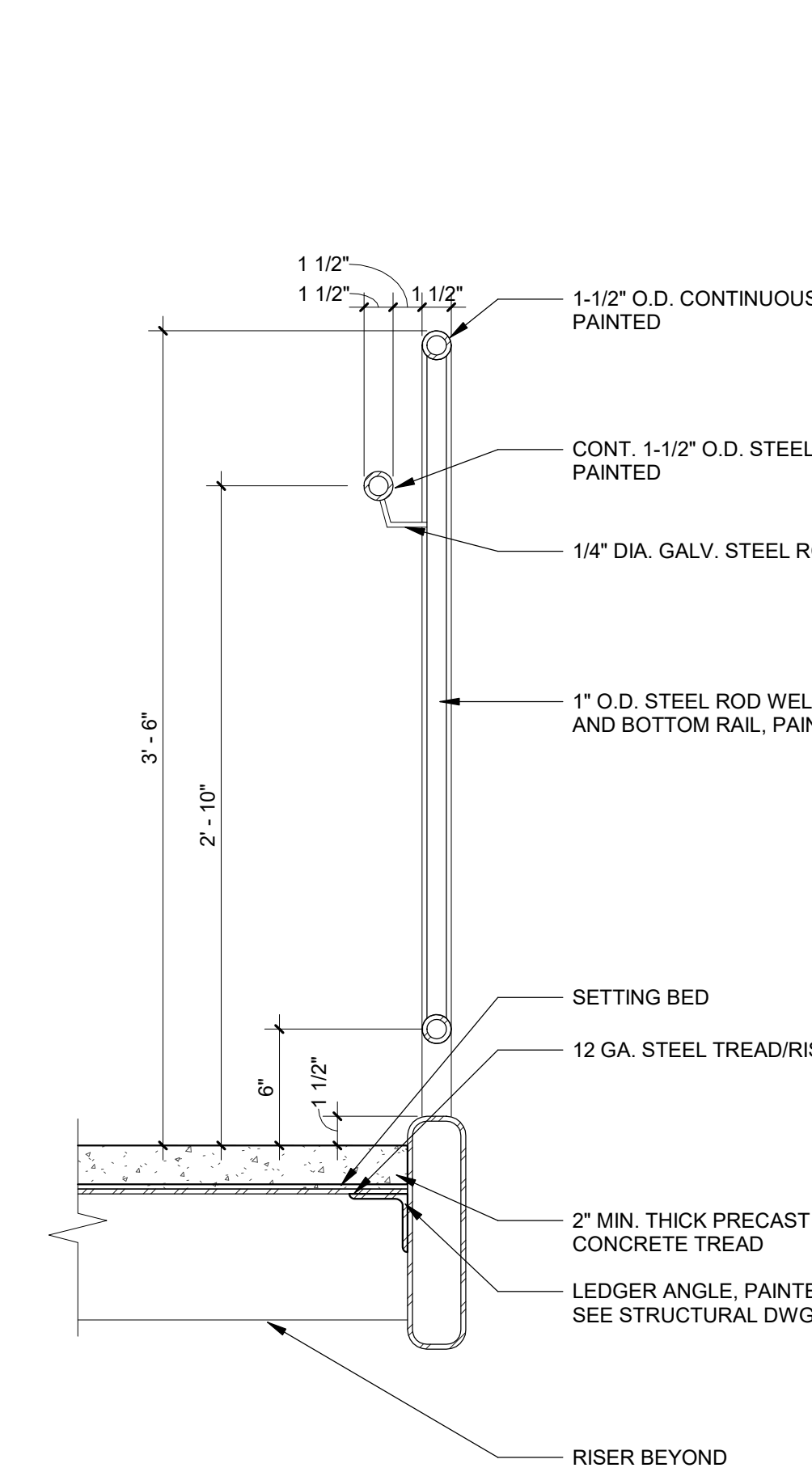
**9 STAIR DETAIL - LOBBY**  
SCALE: 1 1/2" = 1'-0"



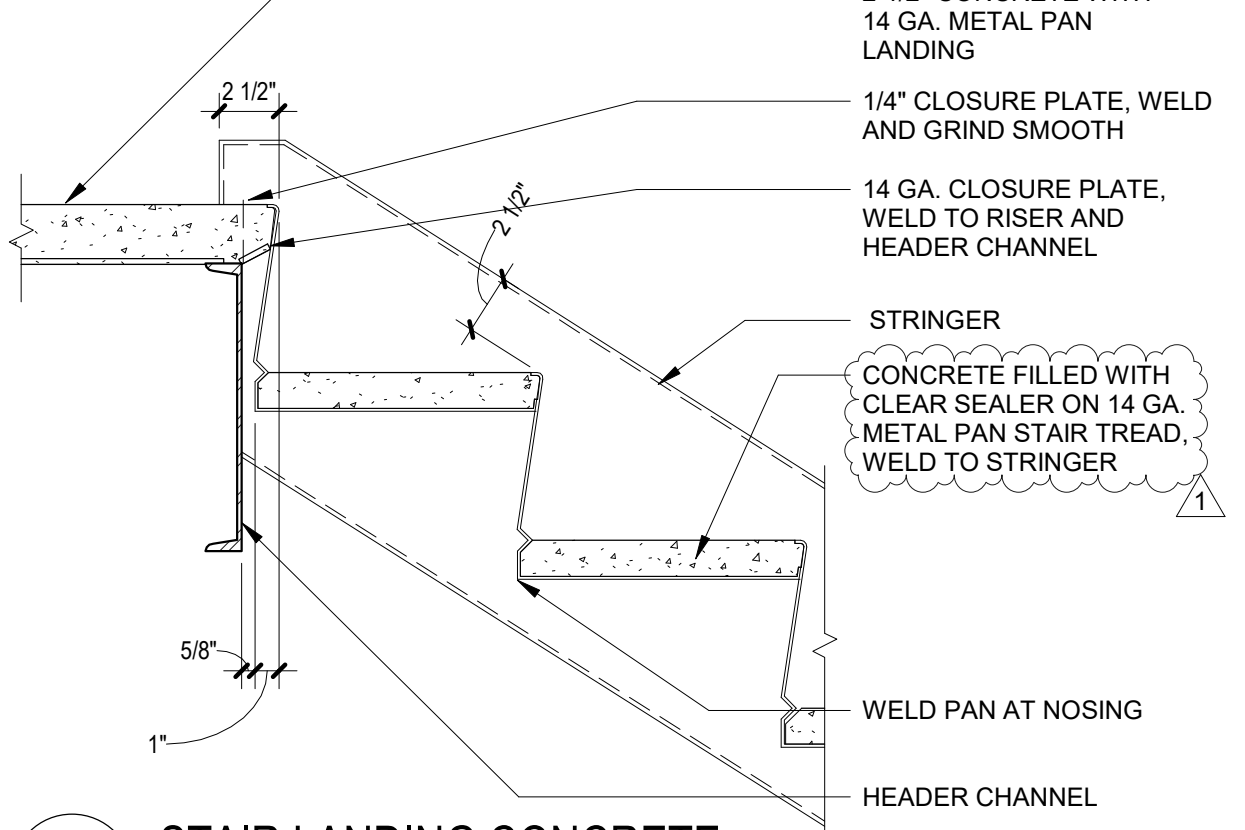
**7 HANDRAIL AT GUARDRAIL**  
SCALE: 1 1/2" = 1'-0"



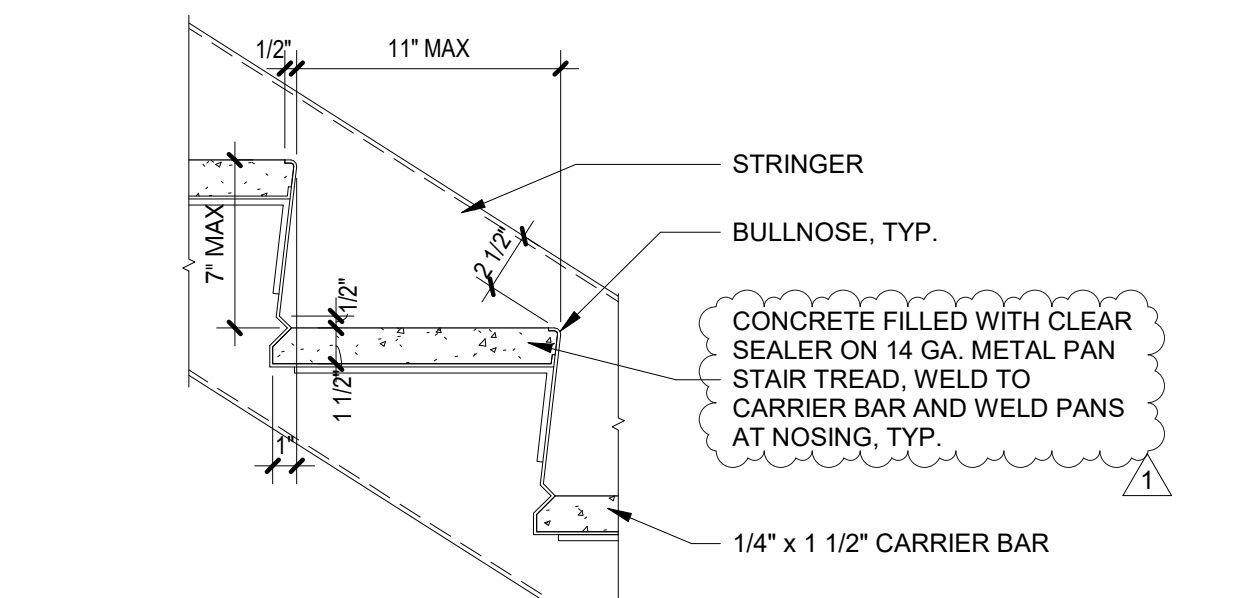
**6 HANDRAIL AT WALL DETAIL**  
SCALE: 3/4" = 1'-0"



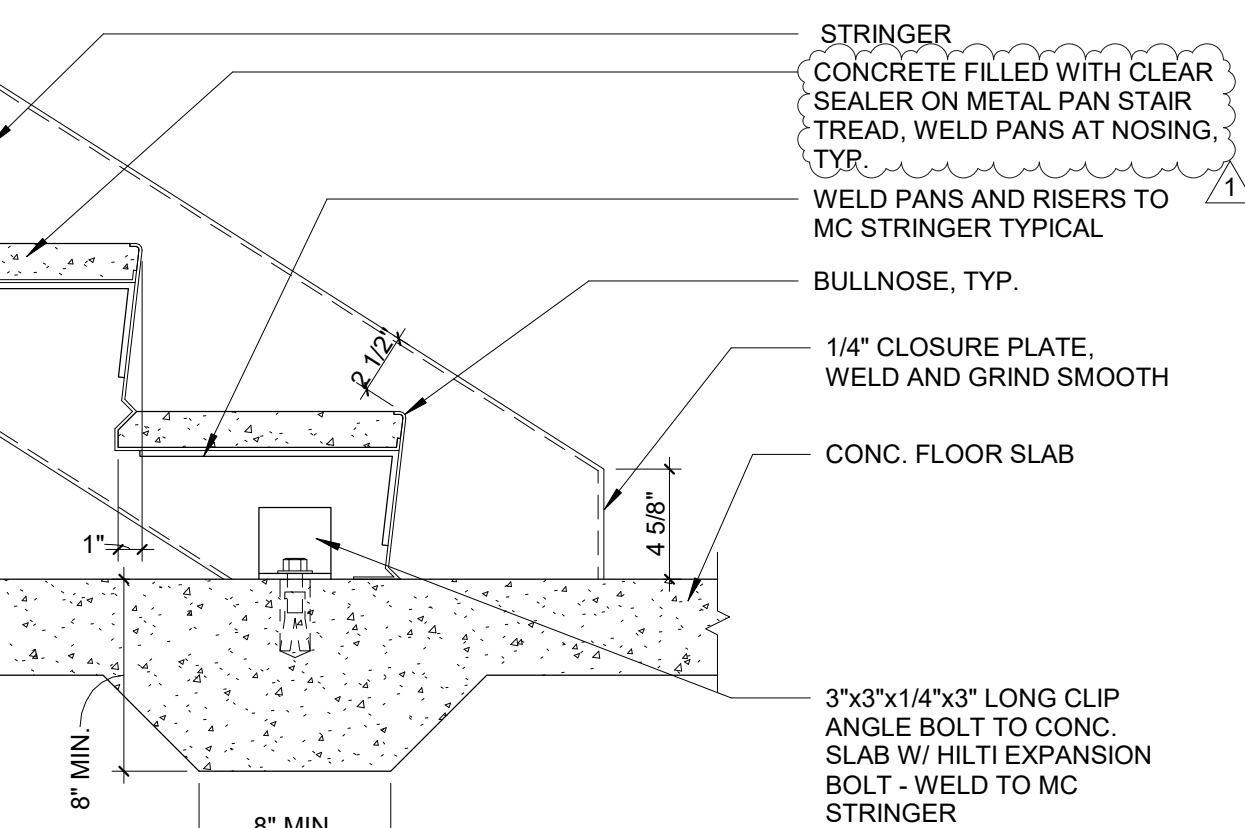
**5 TREAD GUARDRAIL DETAIL**  
SCALE: 1 1/2" = 1'-0"



**3 STAIR LANDING CONCRETE**  
SCALE: 1 1/2" = 1'-0"



**2 STAIR METAL PAN AT MIDDLE**  
SCALE: 1 1/2" = 1'-0"



**1 STAIR DETAIL METAL PAN BASE**  
SCALE: 1 1/2" = 1'-0"

**NOTES - EXTERIOR STAIRS**  
NOTE: DETAIL FOR DESIGN INTENT. CONTRACTOR TO PROVIDE DETAILS AND CALCULATIONS AS PART OF DEFERRED SUBMITTAL.



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
Fax: 702.888.2089  
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**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT:

SHEET TITLE:

**STAIR DETAILS AND ROOF HATCH ACCESS DETAIL**

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: KME  
DATE: 2023-014  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CONTACT SCALE DRAWINGS

SHEET  
**A8.30**



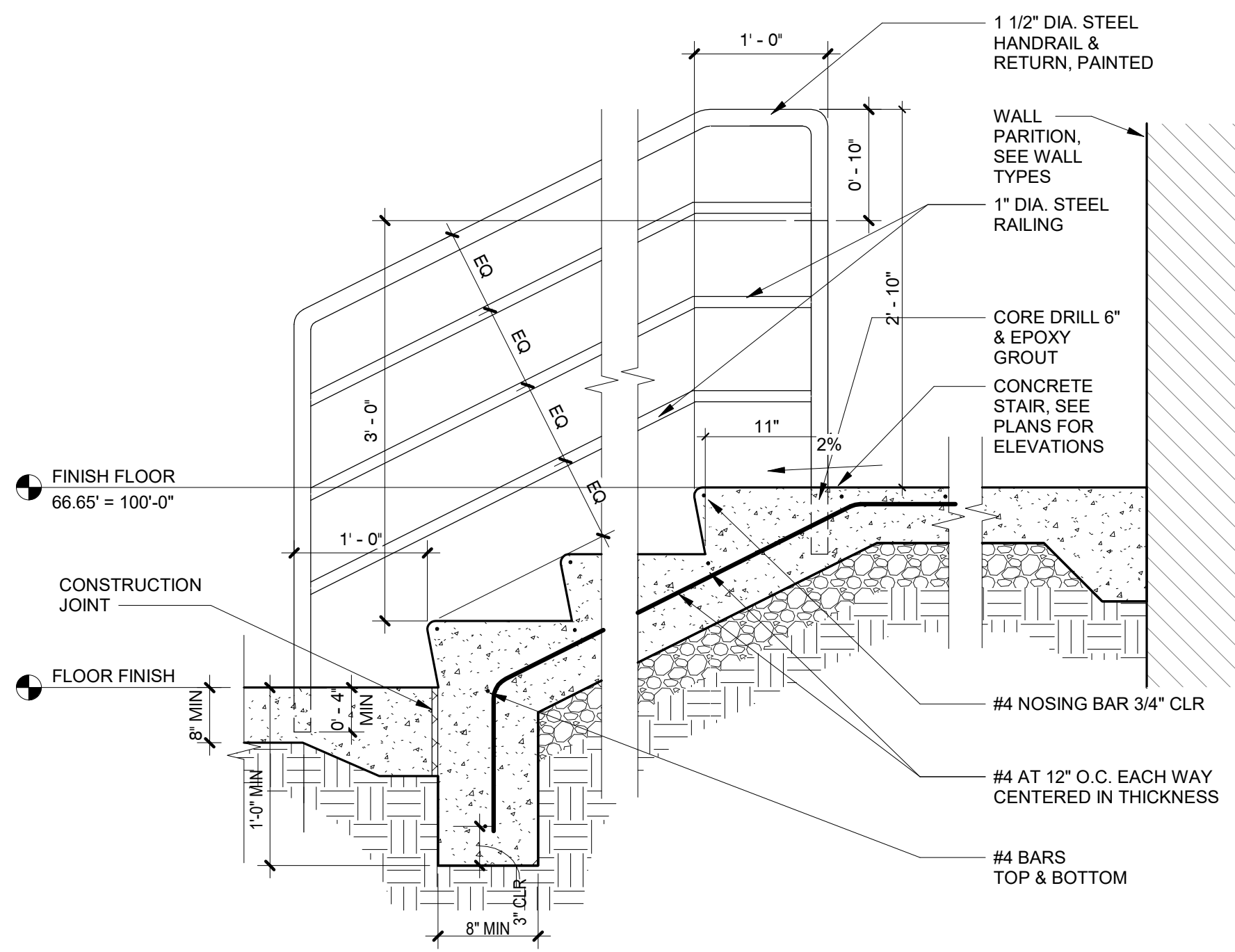
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2

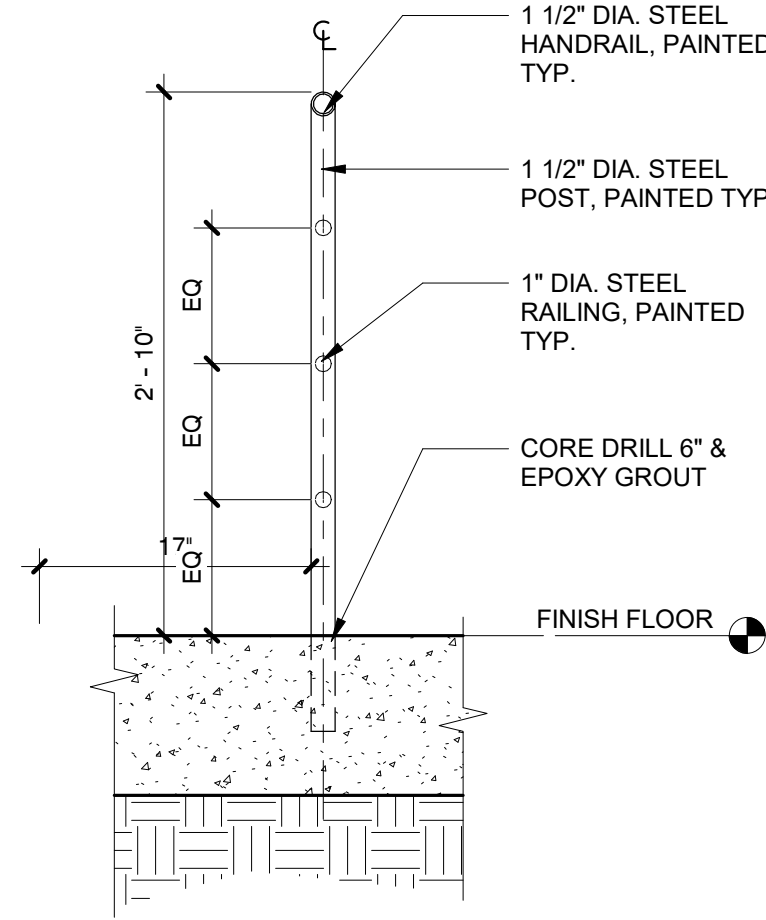
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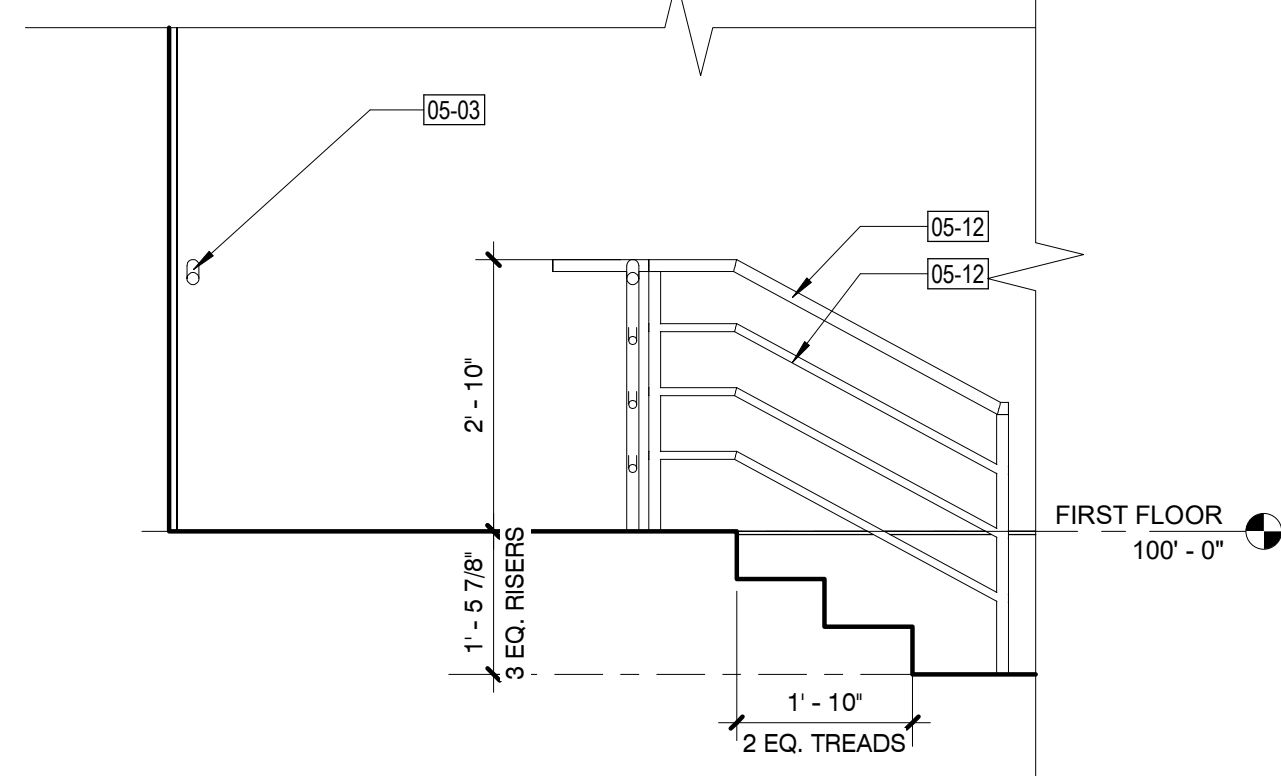
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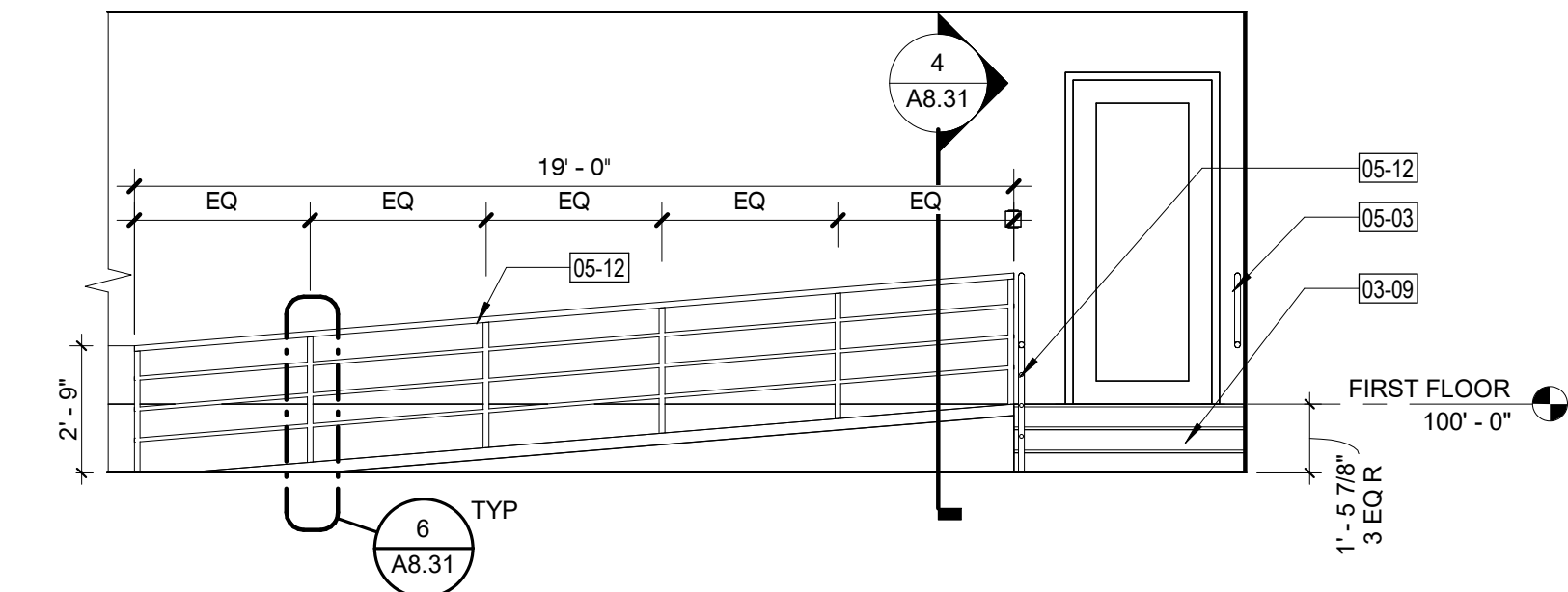
5 STAIR DETAIL  
SCALE: 1" = 1'-0"



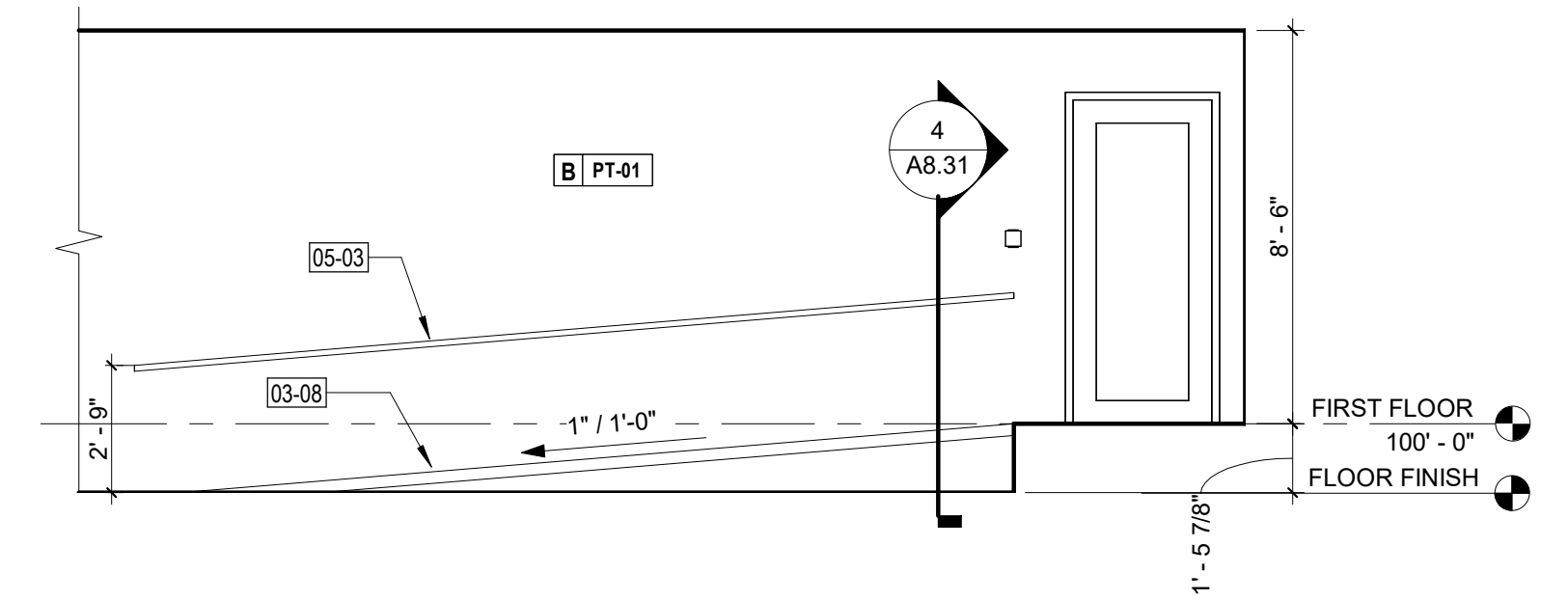
6 RAILING POST DETAIL  
SCALE: 1" = 1'-0"



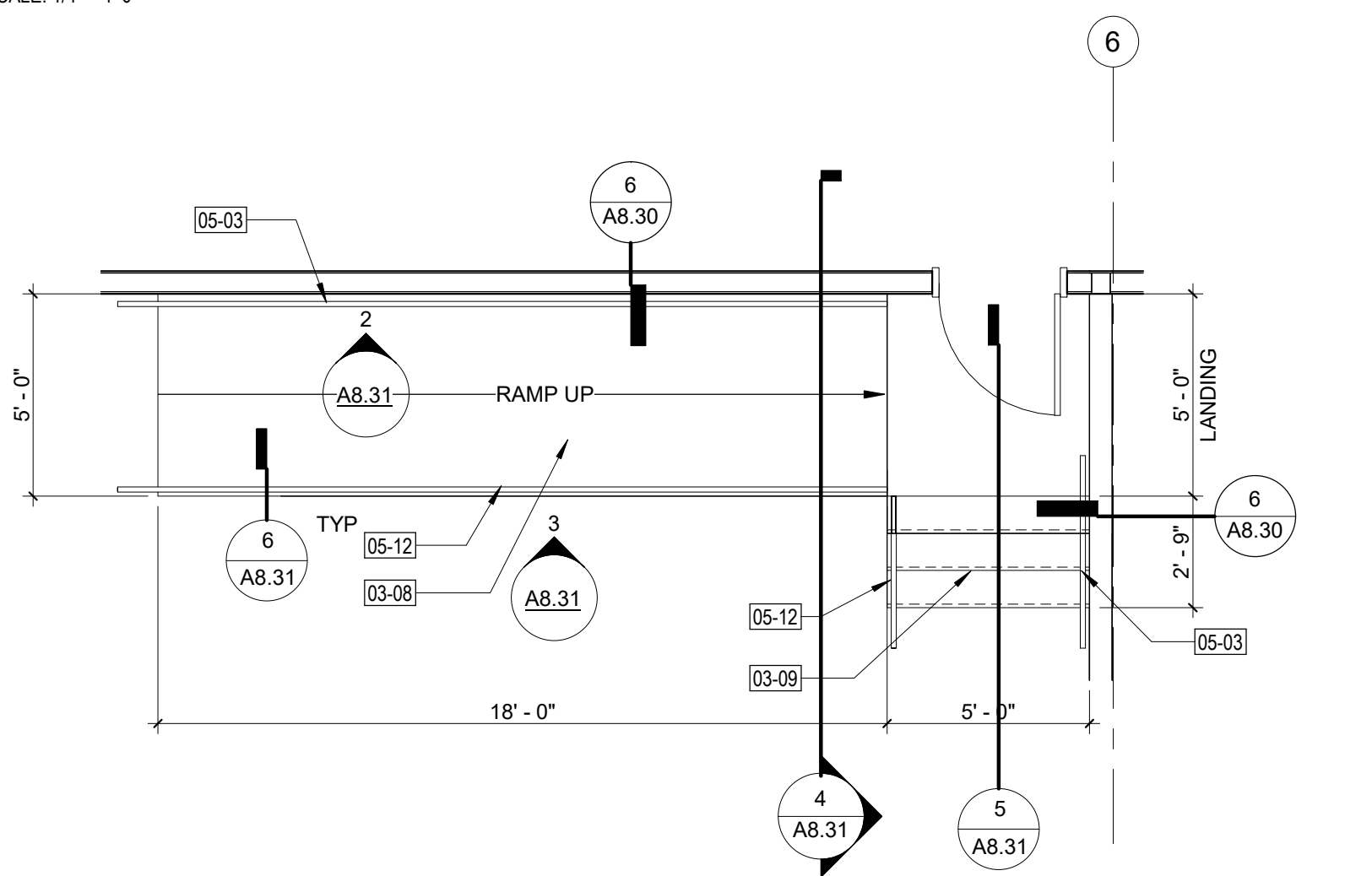
4 STAIR SECTION DETAIL  
SCALE: 1/2" = 1'-0"



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



2 ELEVATION 2 - RAMP  
SCALE: 1/4" = 1'-0"



1 ENLARGED PLAN - RAMP  
SCALE: 1/4" = 1'-0"

**KEYNOTES**

03-08	NEW CONCRETE RAMP. SEE DETAIL
03-09	NEW CONCRETE STAIR
05-03	1-1/2" O.D. WALL MOUNT HANDRAIL WITH WALL MOUNTING BRACKET AT 4'-0" O.C. PAINTED
05-12	1" O.D. STEEL RAILING PAINTED



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113  
Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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**PROJECT:**  
SNRHA BENNETT PLAZA PHASE II  
1818 Balzar Ave. Las Vegas, NV 89106

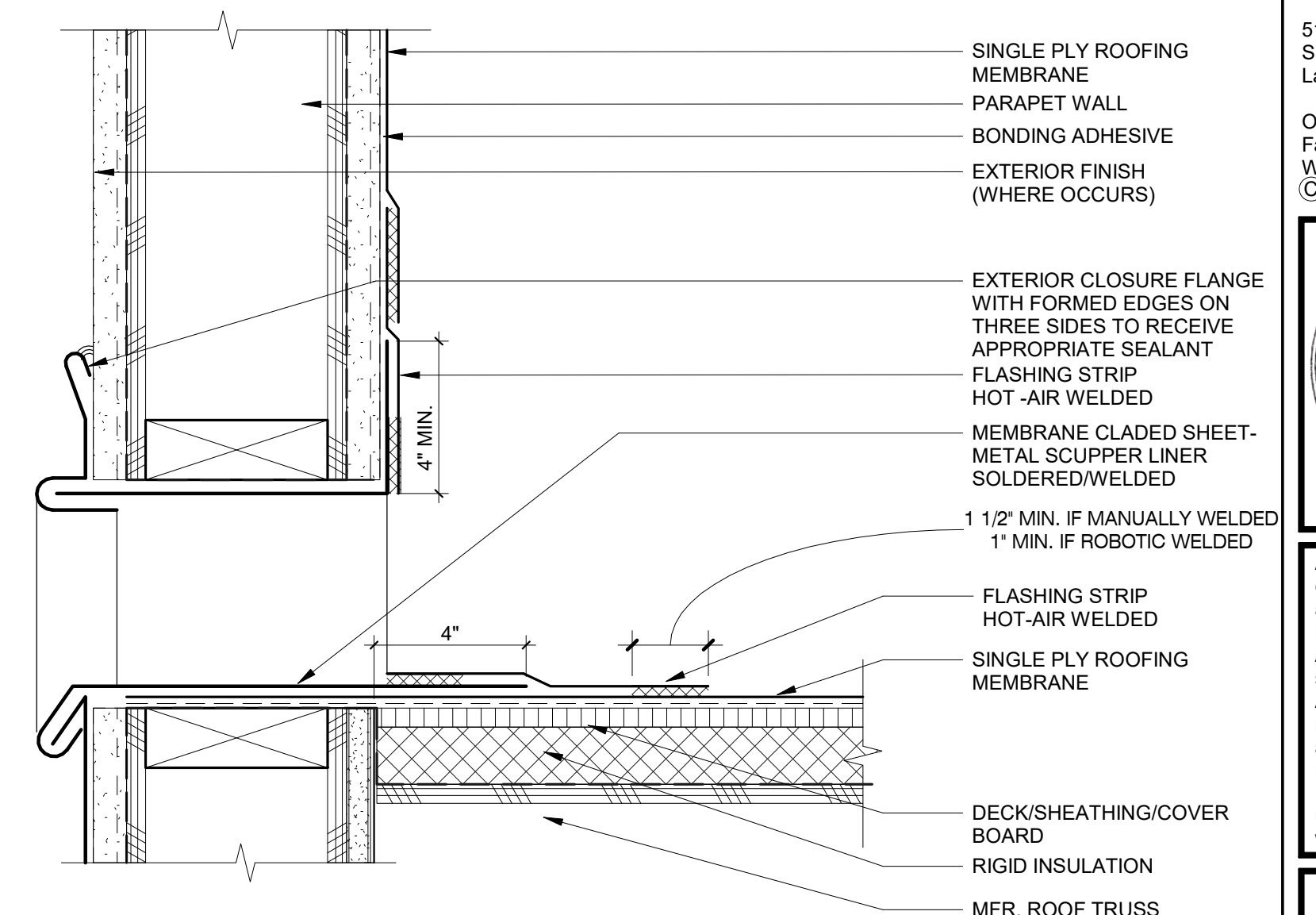
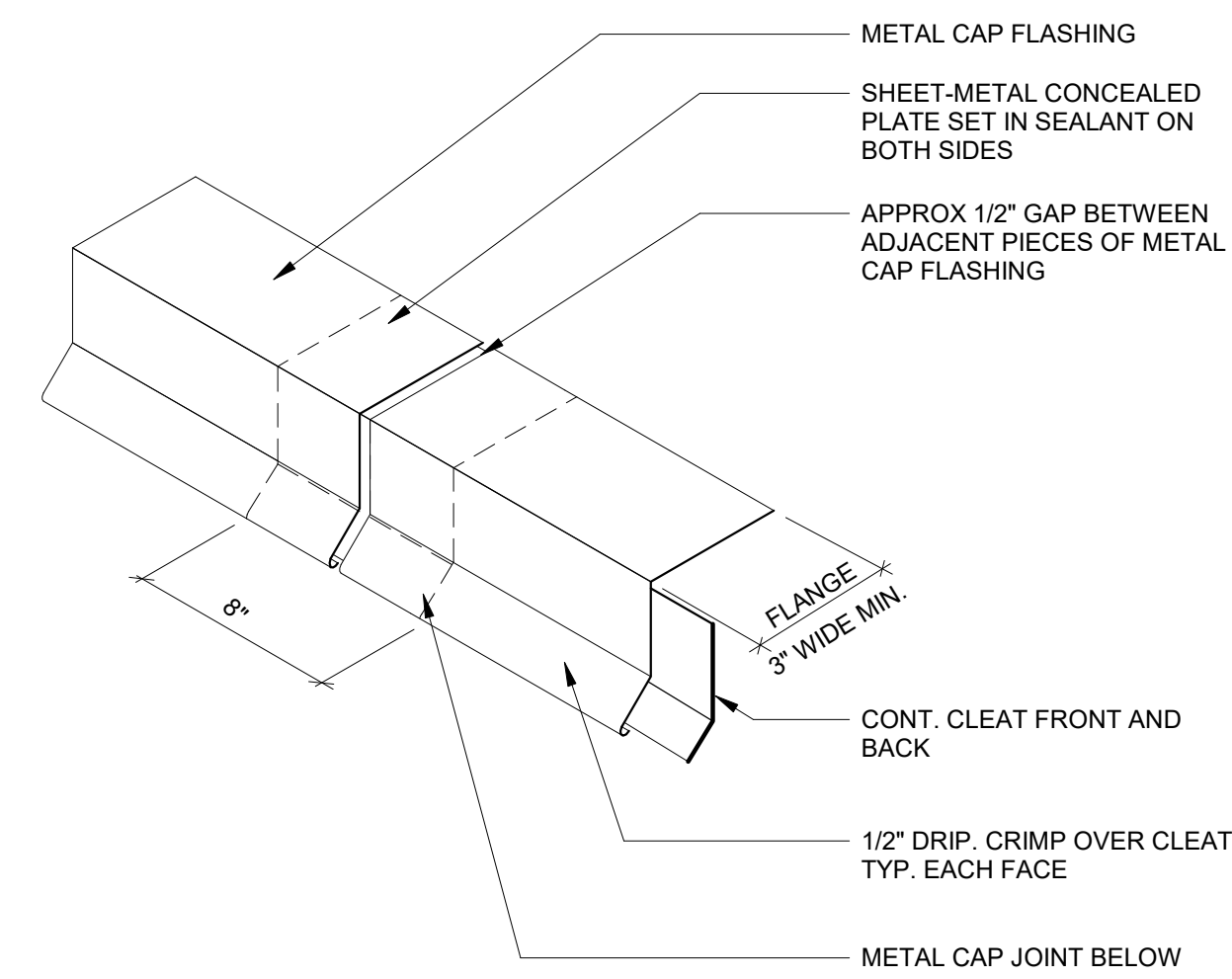
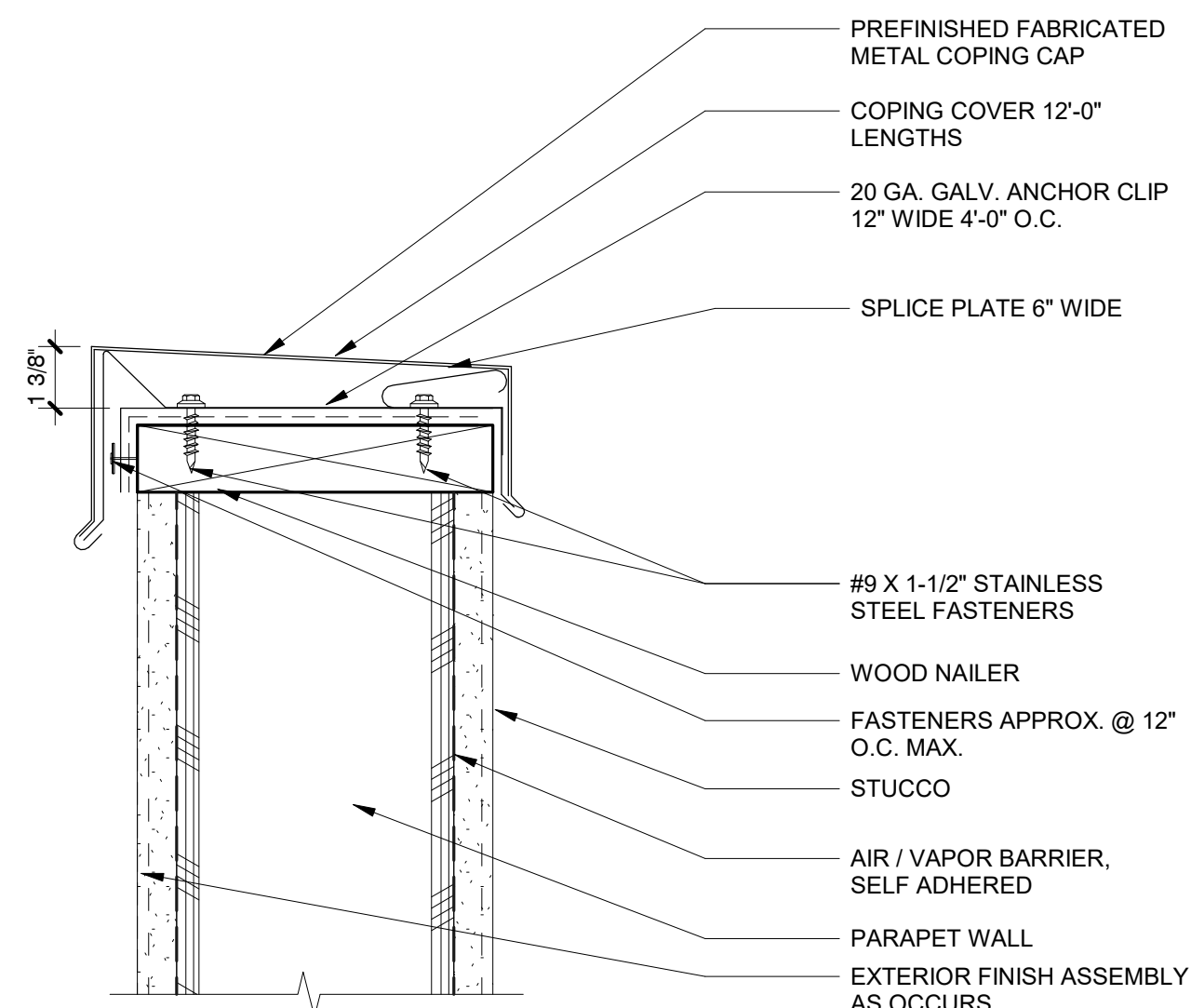
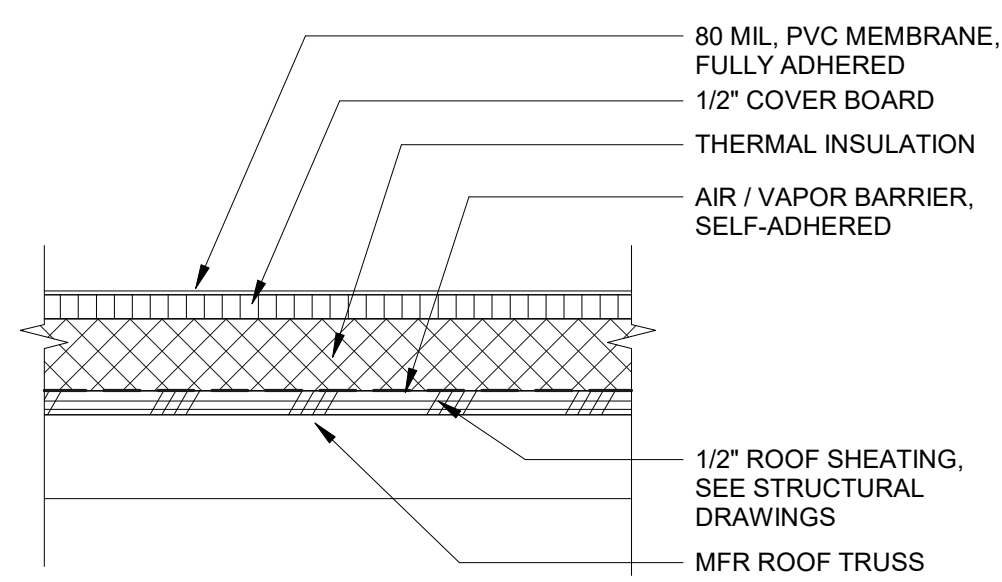
**SHEET TITLE:**  
RAMP AND STAIR DETAILS

**REVISIONS**

No.	Description	Date

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

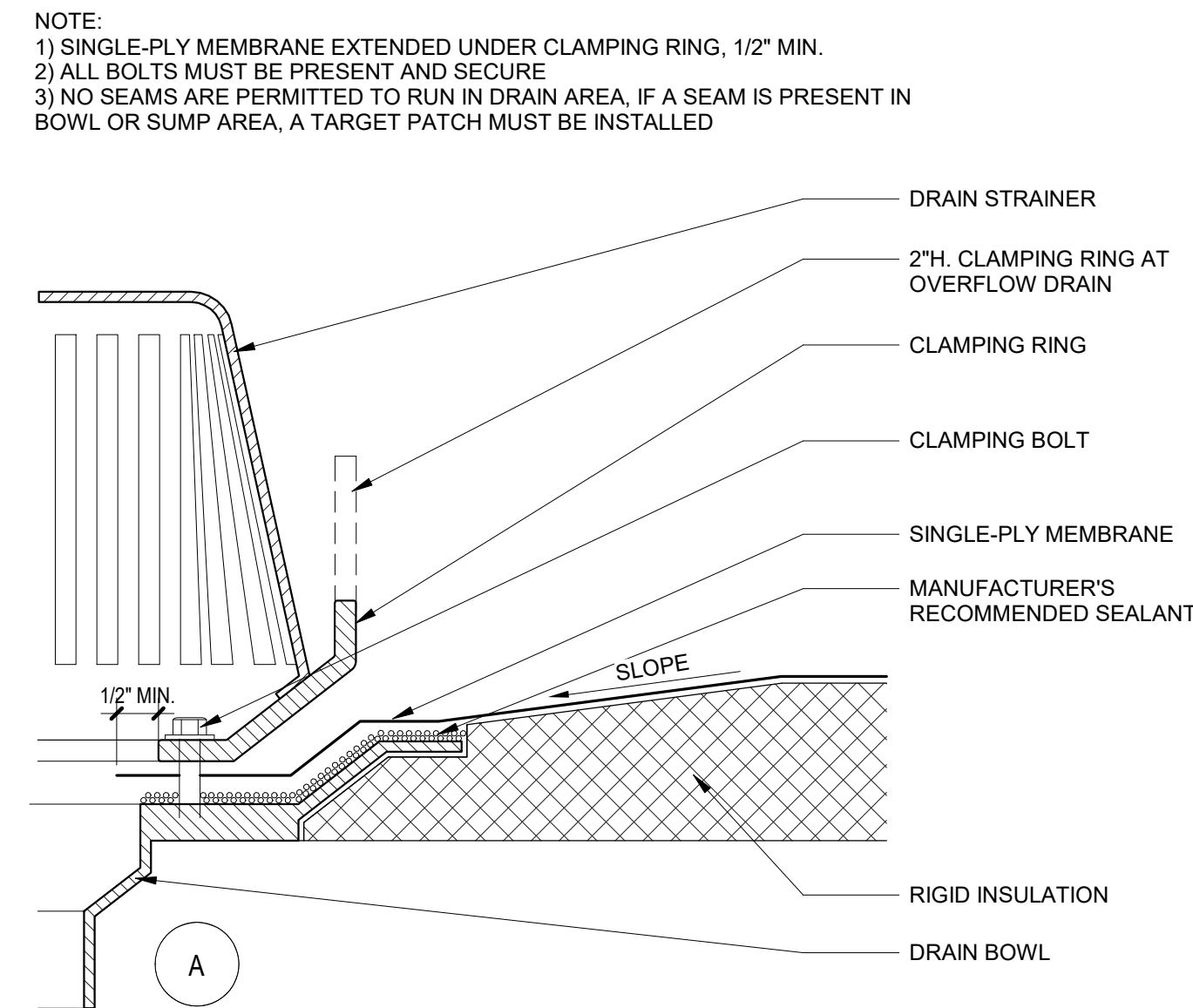
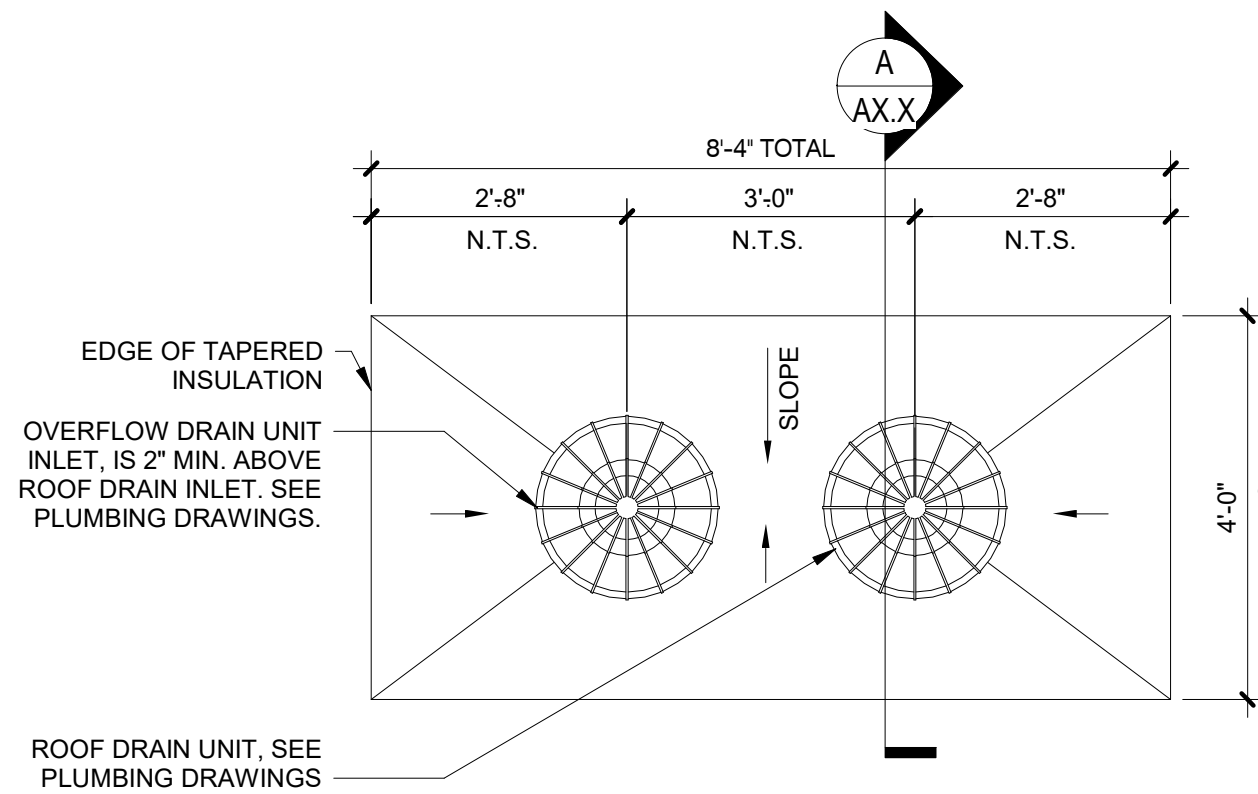
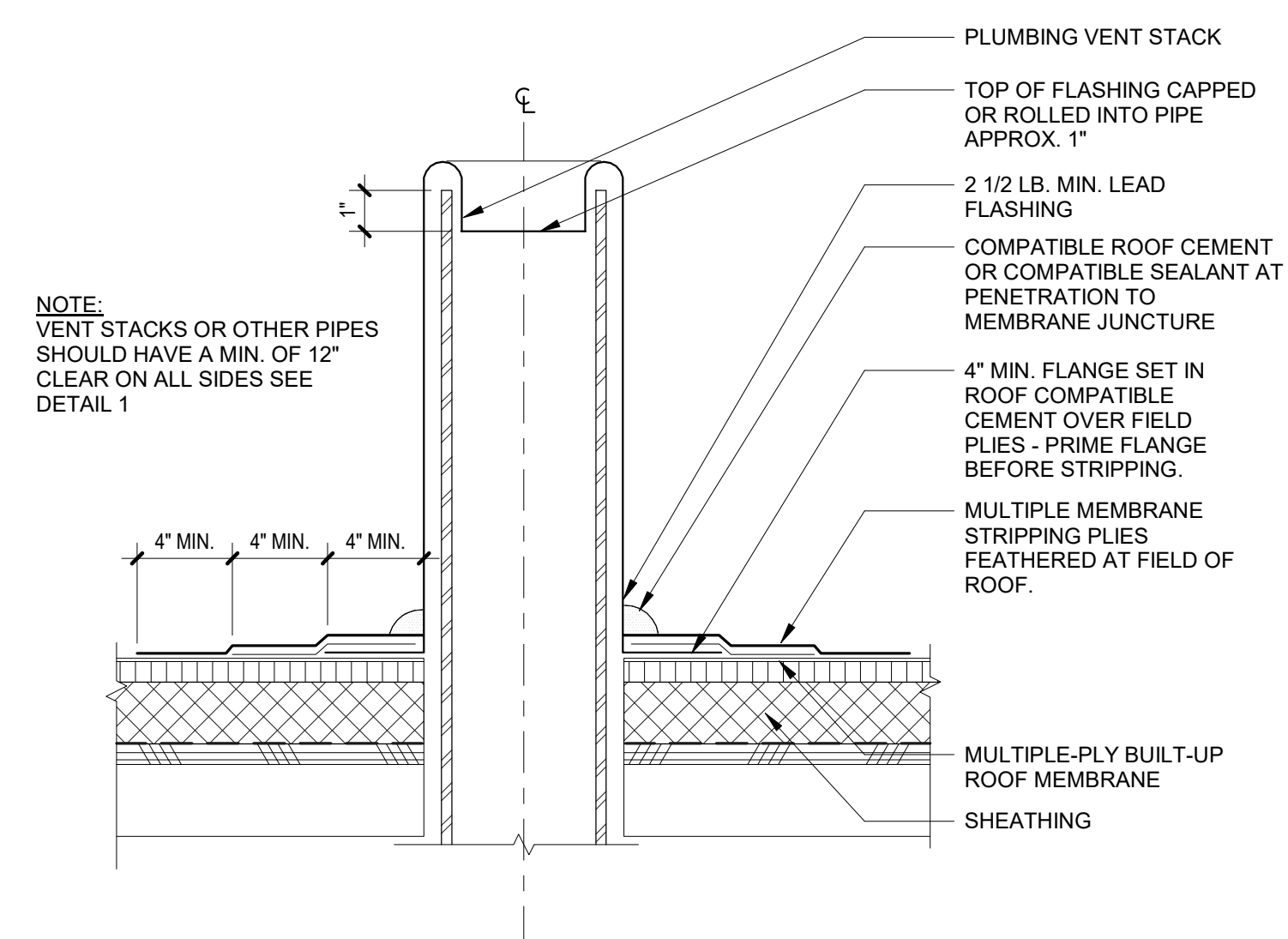
SHEET  
**A8.31**



**12** ROOF SYSTEM FLAT ROOF  
SCALE: 3" = 1'-0"

**9** PREFABRICATED CAP & COPING CAP SPLICE  
SCALE: 3" = 1'-0"

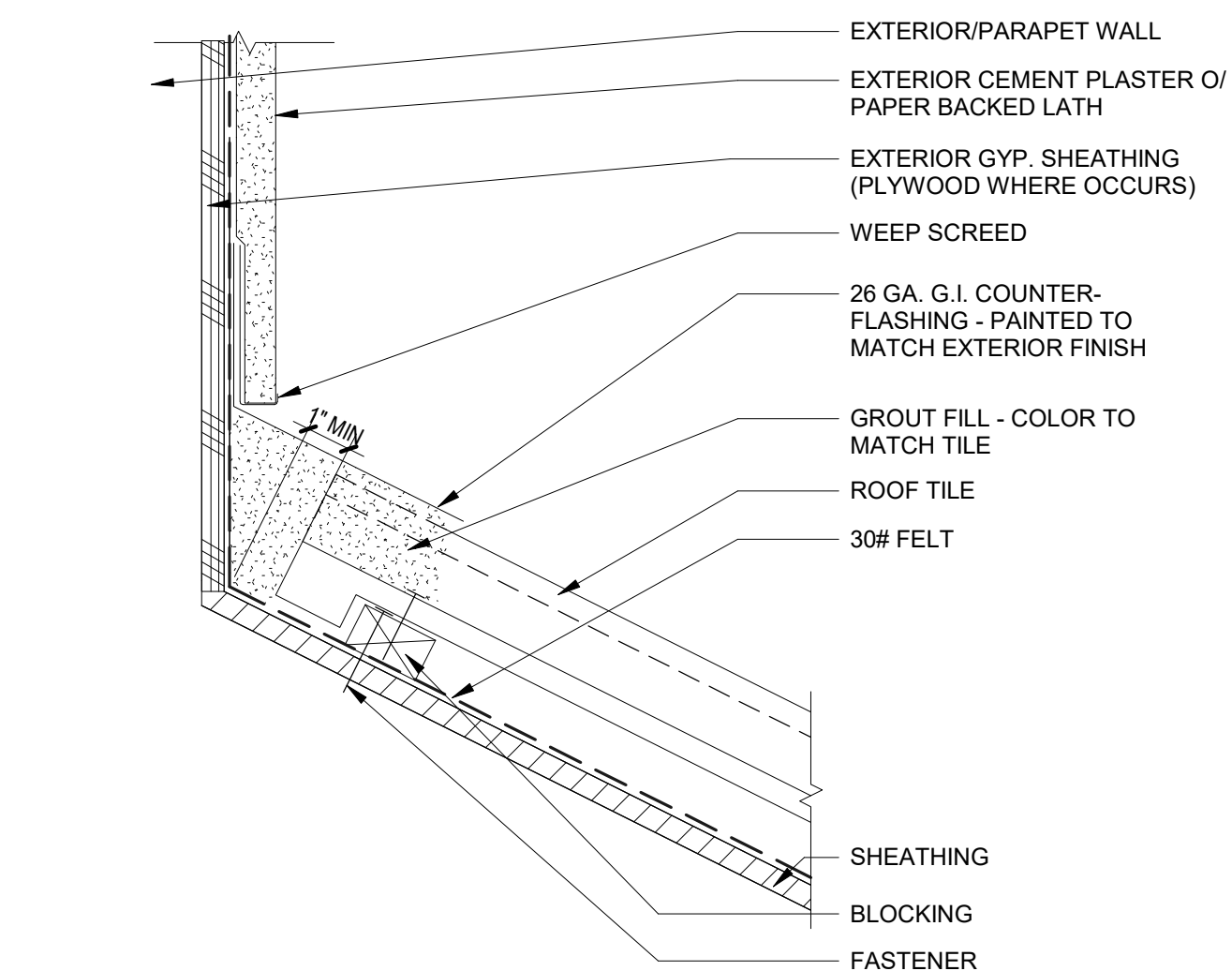
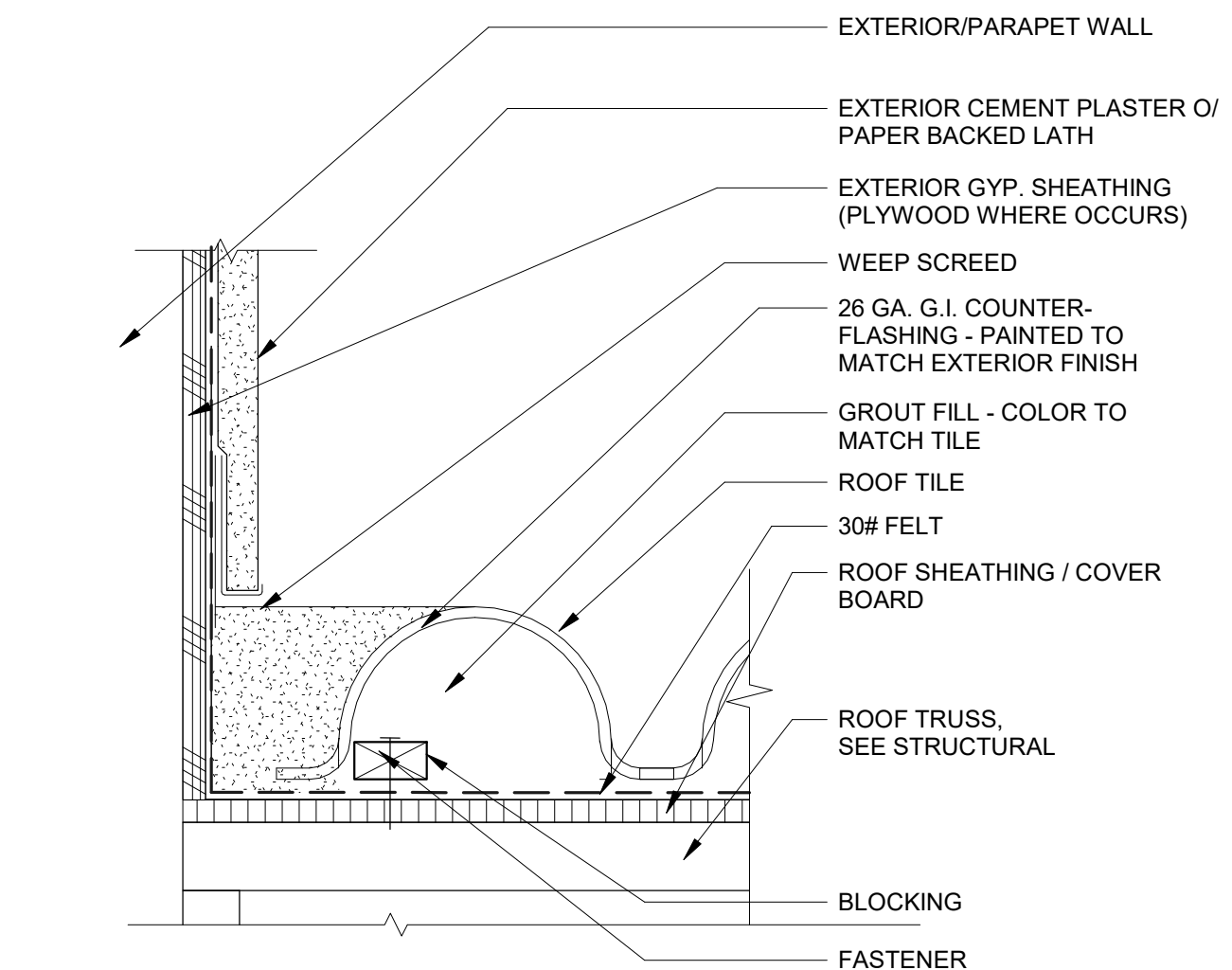
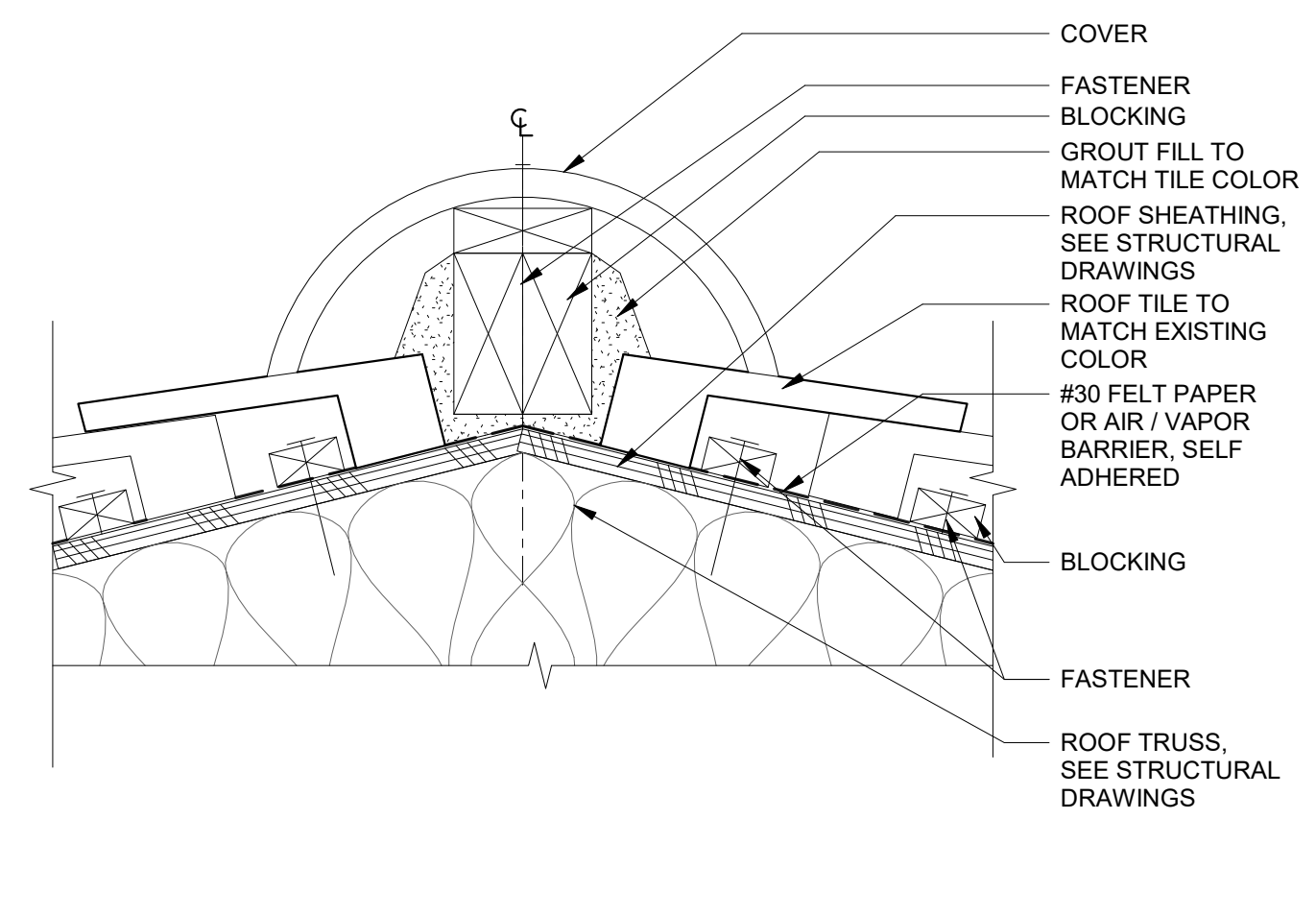
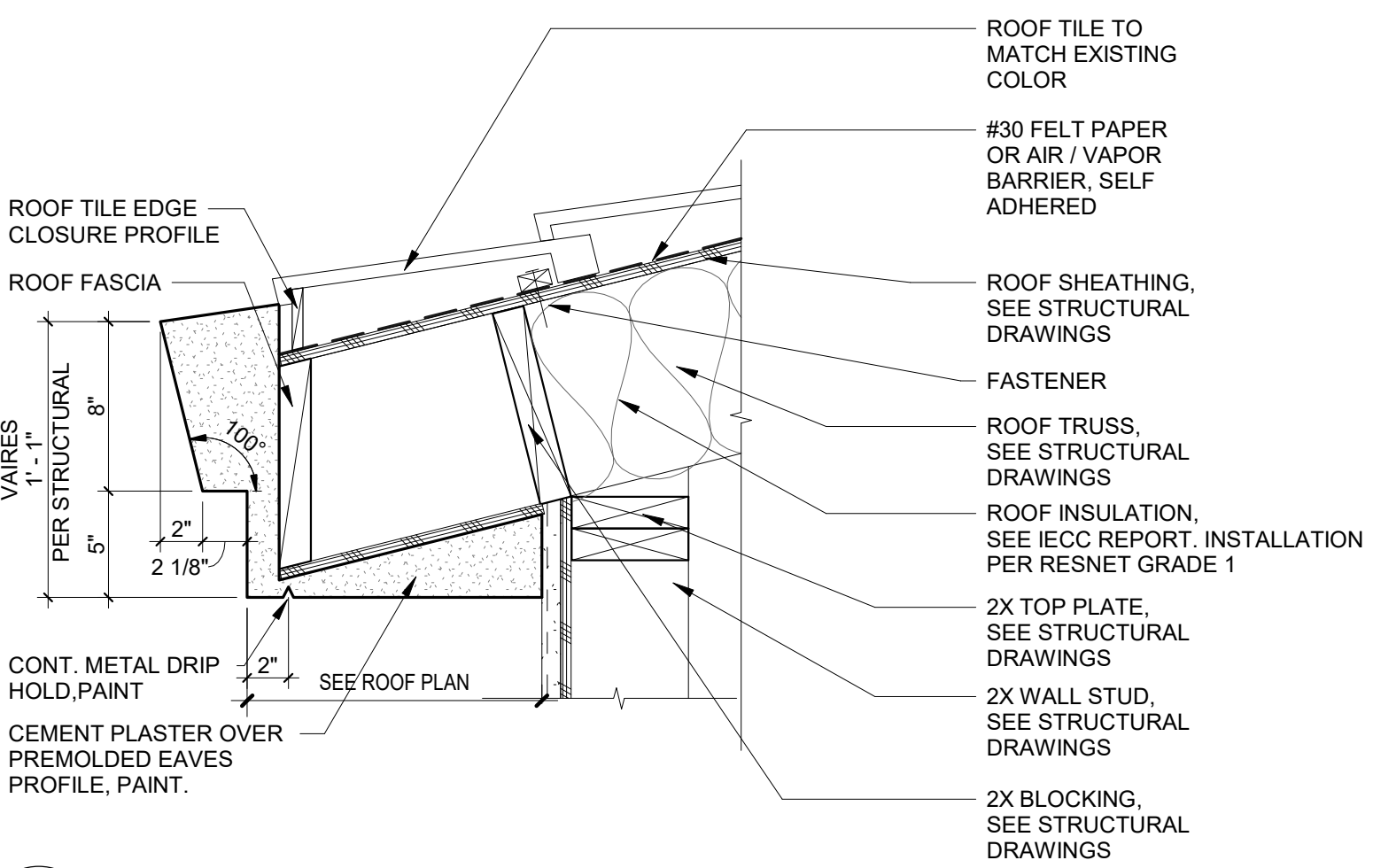
**3** THROUGH WALL SCUPPER DETAIL  
SCALE: 3" = 1'-0"



**11** PLUMBING VENT THRU ROOF  
SCALE: 3" = 1'-0"

**8** ROOF OVERFLOW DRAIN DETAIL  
SCALE: 3" = 1'-0"

**2** ROOF FLASHING DETAIL-SINGLE PLY  
SCALE: 3" = 1'-0"



**10** ROOF EAVES DETAIL - TYPICAL  
SCALE: 1 1/2" = 1'-0"

**7** RIDGE CAP DETAIL  
SCALE: 3" = 1'-0"

**4** ROOF TILE DETAIL AT EXTR WALL  
SCALE: 3" = 1'-0"

**1** ROOF TILE DETAIL AT PARAPET  
SCALE: 3" = 1'-0"

REVISIONS		
No.	Description	Date

DRAWN BY: KME  
DATE: 2023-014  
JOB NO: AS INDICATED  
SCALE: 20/100 SCALE DRAWINGS

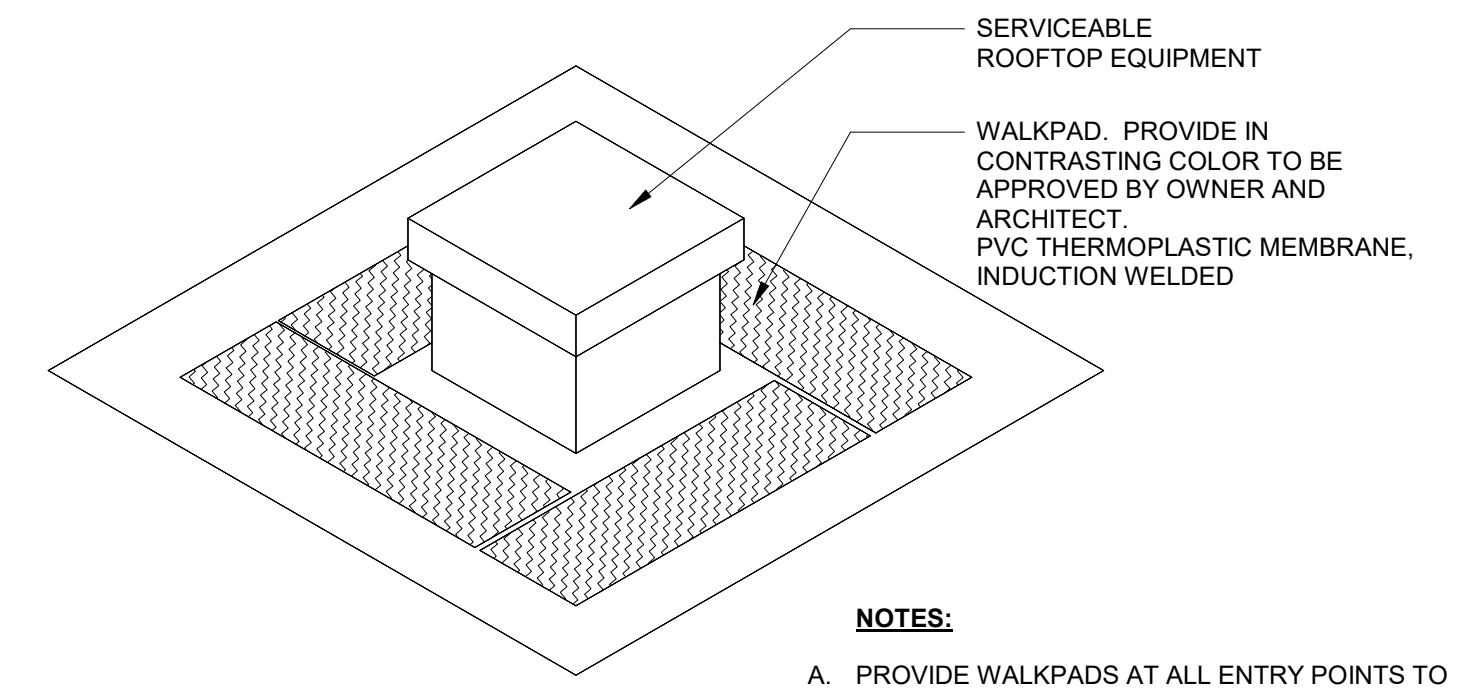
REVISIONS

No.	Description	Date

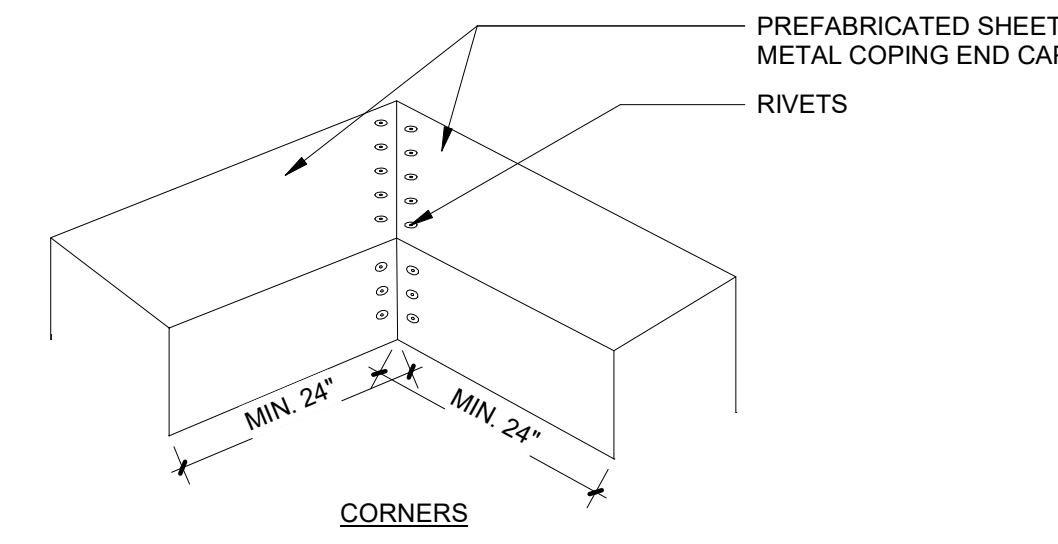
DRAWN BY: KME  
DATE: 2023-014  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CONTACT SCALE DRAWINGS

SHEET

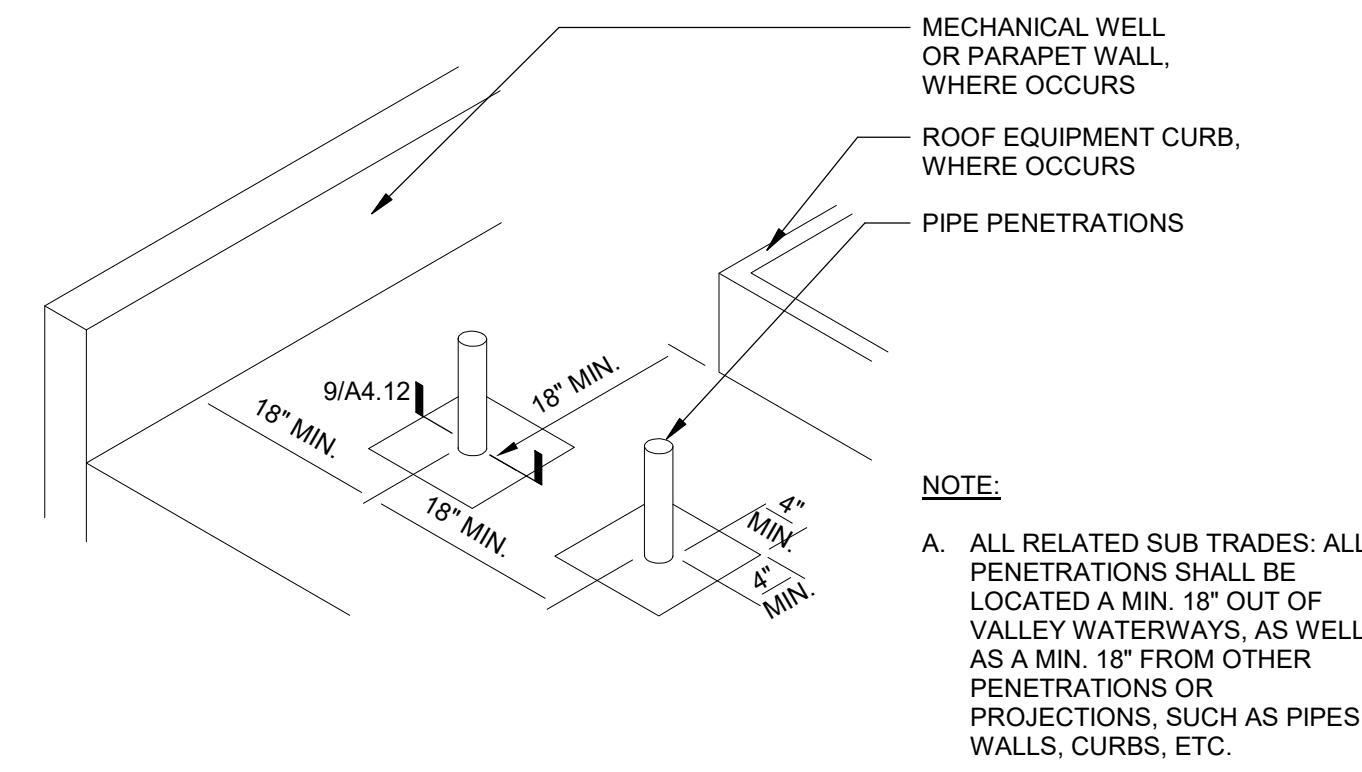
A8.51



3 WALKPAD  
SCALE: 12" = 1'-0"



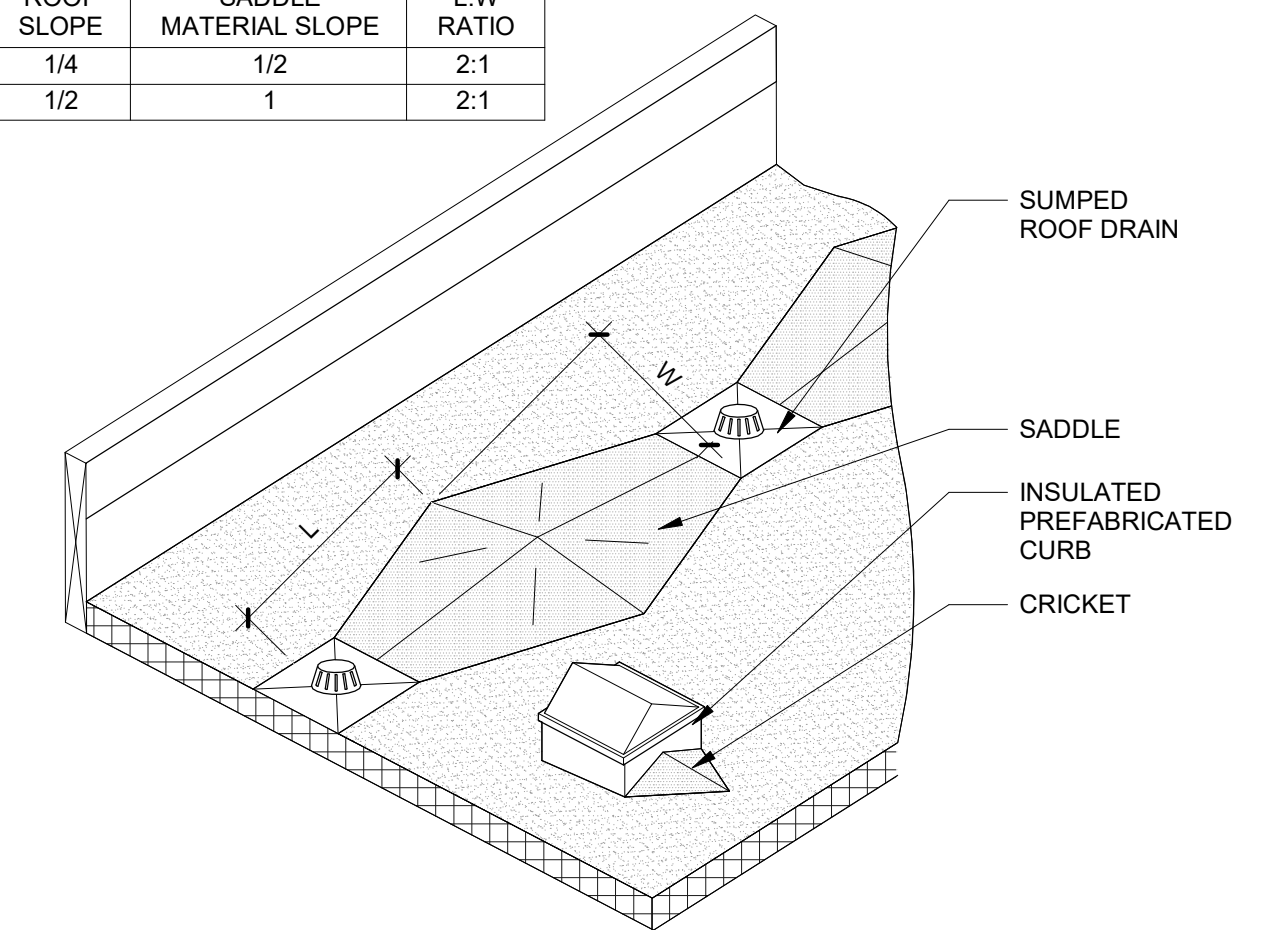
6 SHEET METAL COPING - TRANSITIONS  
SCALE: 1" = 1'-0"



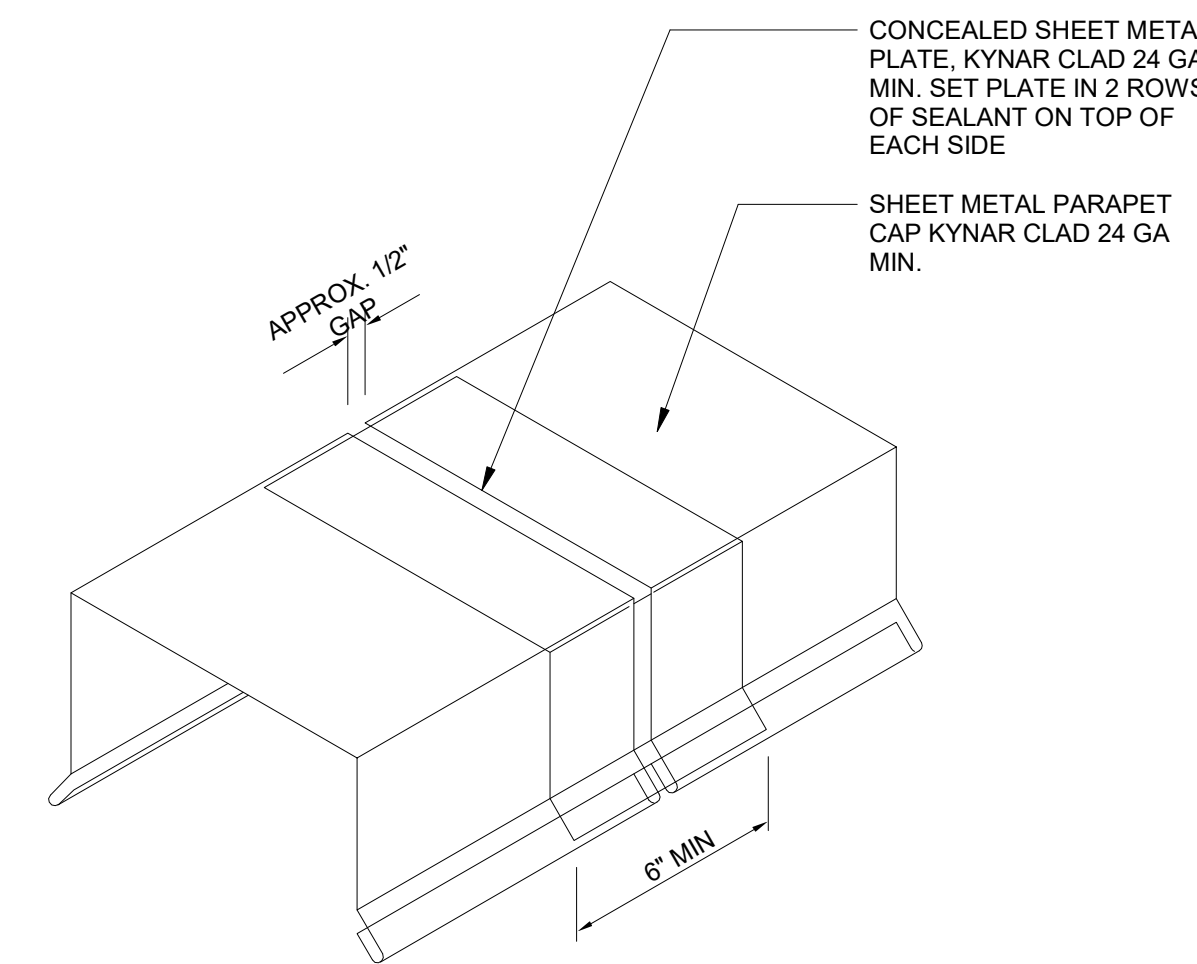
7 PIPE PENETRATION CLEARANCES  
SCALE: 3/4" = 1'-0"

RECOMMENDED MAXIMUM L:W RATIOS FOR SADDLES AND CRICKETS

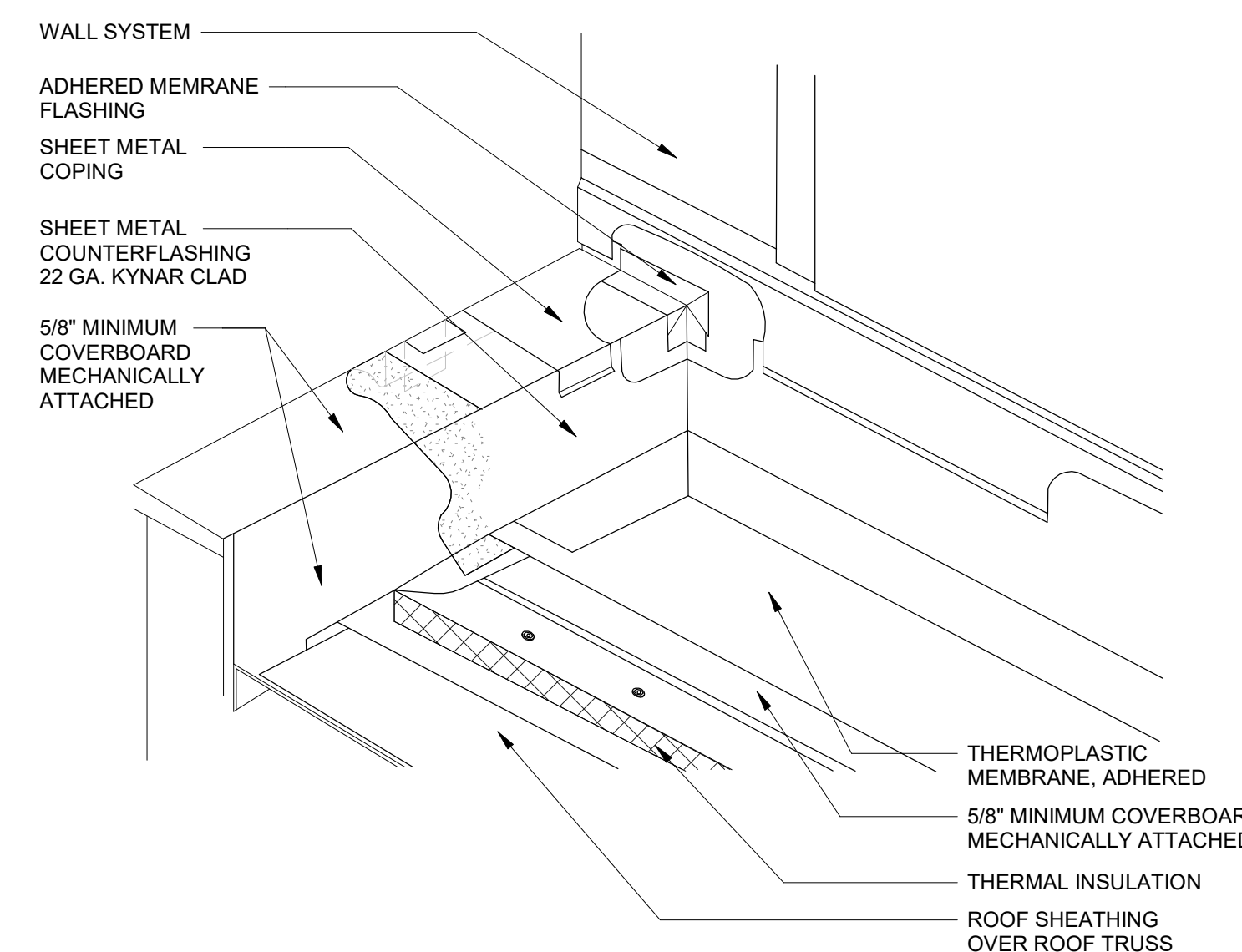
ROOF SLOPE	SADDLE MATERIAL SLOPE	L:W RATIO
1/4	1/2	2:1
1/2	1	2:1



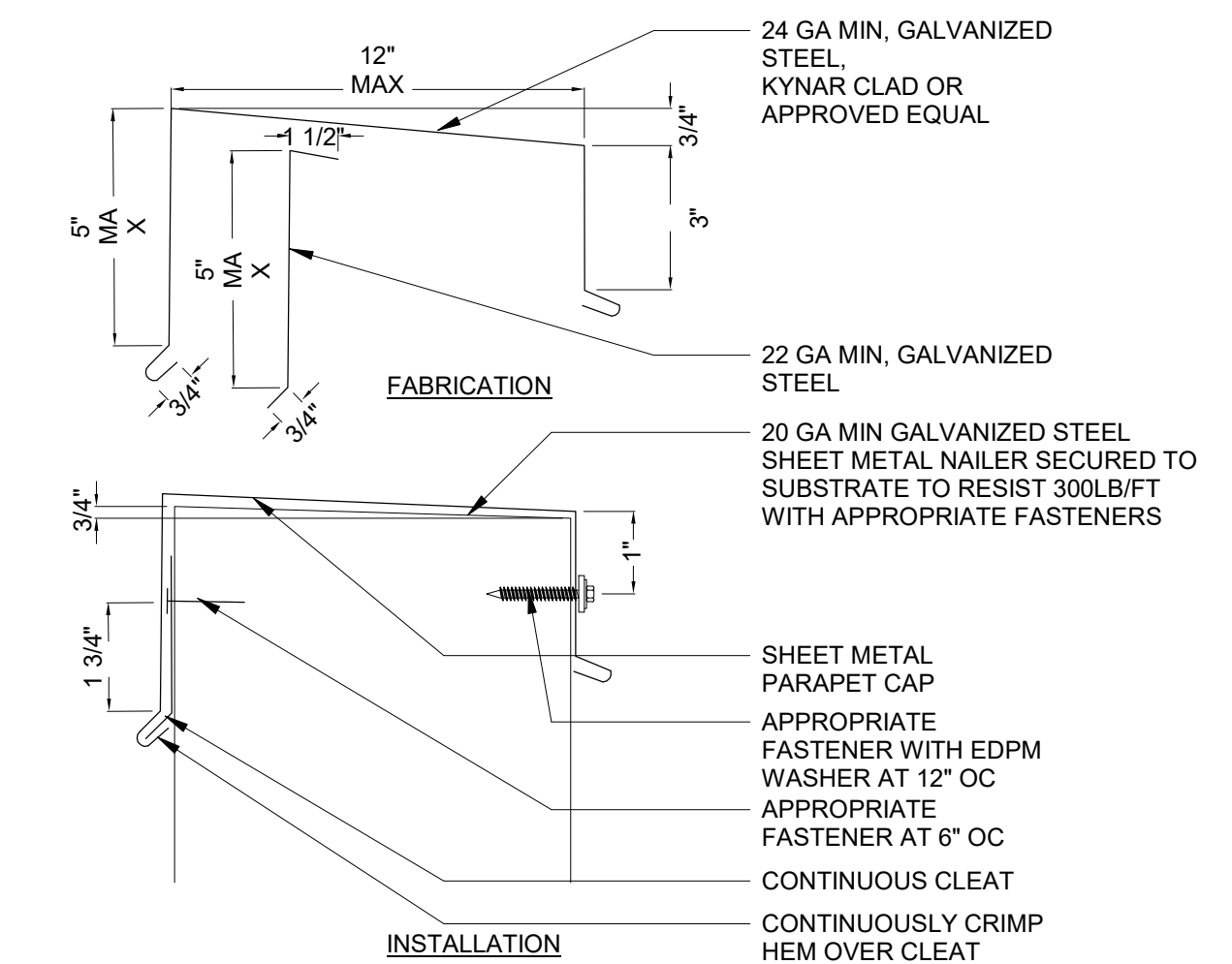
2 CRICKET SCHEDULE - TYPICAL  
SCALE: 3" = 1'-0"



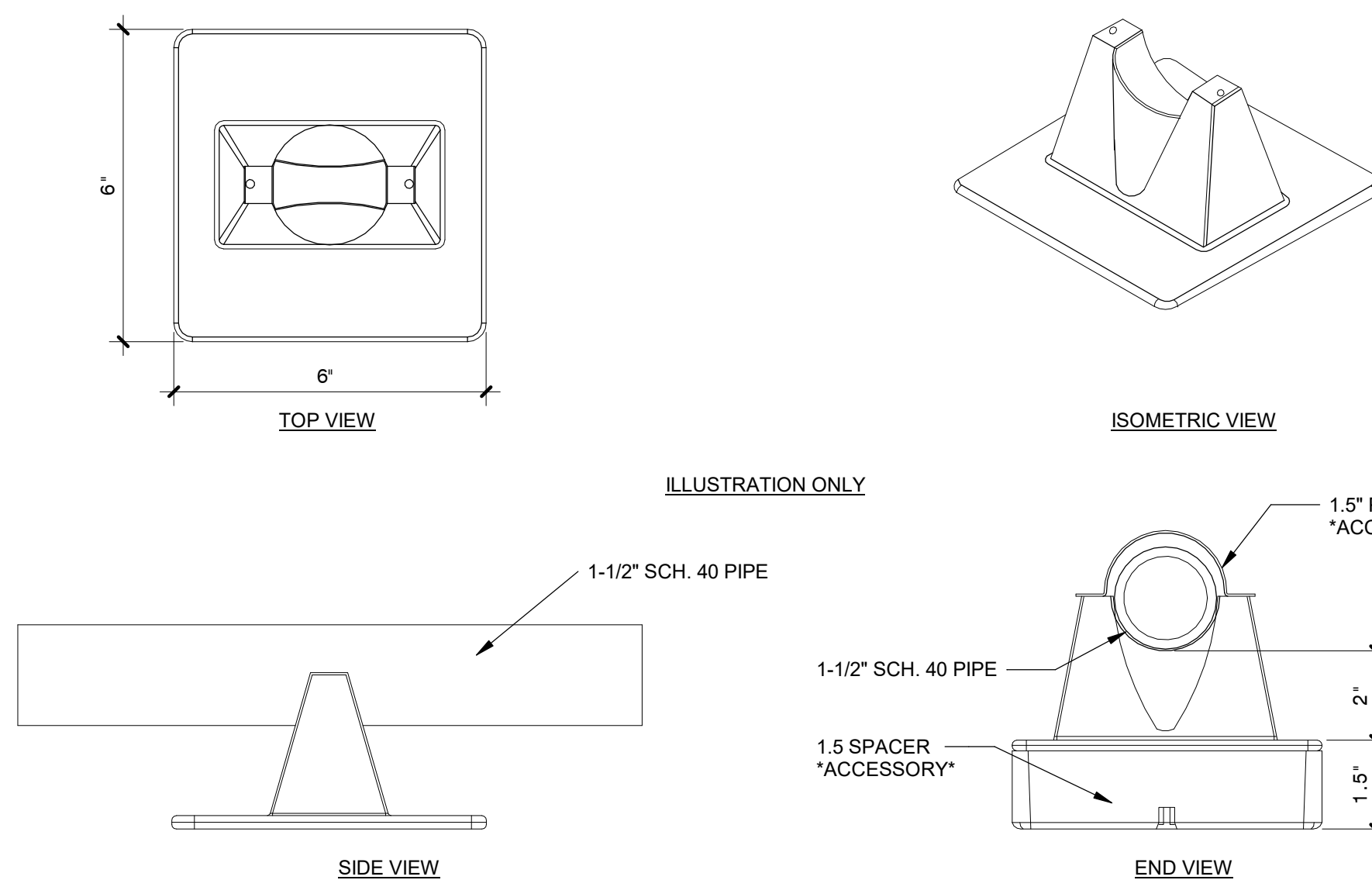
5 SHEET METAL COPING JOINT  
SCALE: 12" = 1'-0"



4 WALL TRANSITION - PARAPET AND COPING  
SCALE: 1" = 1'-0"



1 SHEET METAL COPING  
SCALE: 12" = 1'-0"

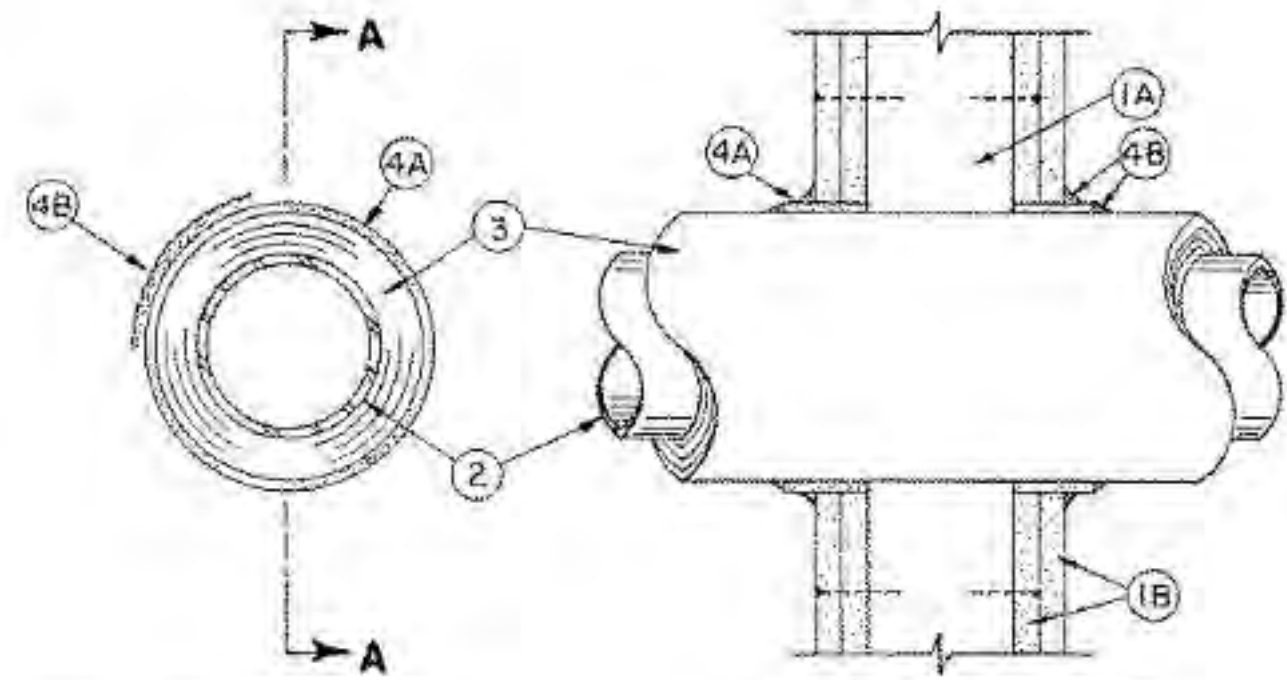


8 SMALL PIPE SUPPORTS  
SCALE: 3" = 1'-0"

System No. W-L-5001

May 19, 2001

F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 3/4, 1 and 1-1/2 Hr (See Item 3)
L Rating At Ambient — 2 CFM/sq ft
L Rating At 400 F — less than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

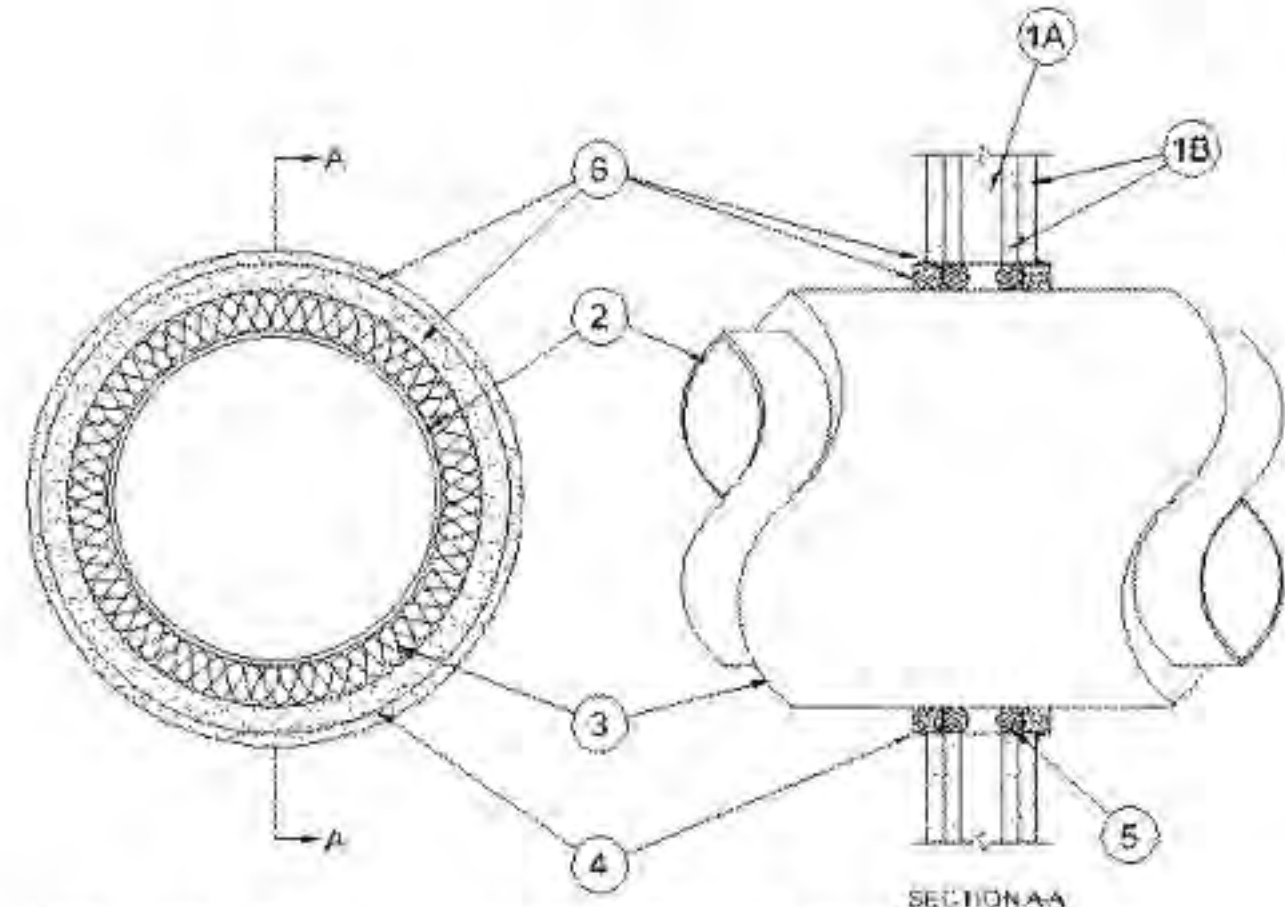
- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
B. Gypsum Board\* — Nom 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 14-1/2 (368mm) in for wood stud walls and 18 in. (457 mm) for steel stud walls.
The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.
2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used.
A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Pipe Covering\* — Nom 1 or 2 in. (25 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints sealed with metal fasteners or with butt strip tape supplied with the product. When nom 1 in. (25 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/4 in. (6 mm) to max 3/8 in. (10 mm). When nom 2 in. (51 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum board layers on each side of the wall shall be min 1/2 in. (13 mm) to max 3/4 in. (19 mm).
See Pipe and Equipment Covering Materials (BRCU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
The hourly T Rating of the firestop system is 3/4 hr when nom 1 in. (25 mm) thick pipe covering is used. The hourly T Rating of the firestop system is 1 hr and 1-1/2 hr when nom 2 in. (52 mm) thick pipe covering is used with 1 hr and 2 hr fire rated walls, respectively.
4. Firestop System — Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:
A. Fill, Void or Cavity Materials\* — Wrap Strip — Nom 1/4 in. (6 mm) thick antimescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around pipe covering (foil side out) with seamed/buttet. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. One layer of wrap strip is required when nom 1 in. (25 mm) thick pipe covering is used. Two layers of wrap strip are required when nom 2 in. (51 mm) thick pipe covering is used.
3M COMPANY — FS-195+
B. Fill, Void or Cavity Materials\* — Caulk or Sealant — Min 1/4 in. (6 mm) diam continuous bead applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface.
3M COMPANY — CP-25WB+, IC-15WB+, FireDam 150+ or FB-3000 WT sealant

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-5011

September 07, 2004

F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1/2 and 1 Hr (See Item 2)
L Rating At Ambient — 2 CFM/sq ft
L Rating At 400 F — less than 1 CFM/sq ft



SECTION AA

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

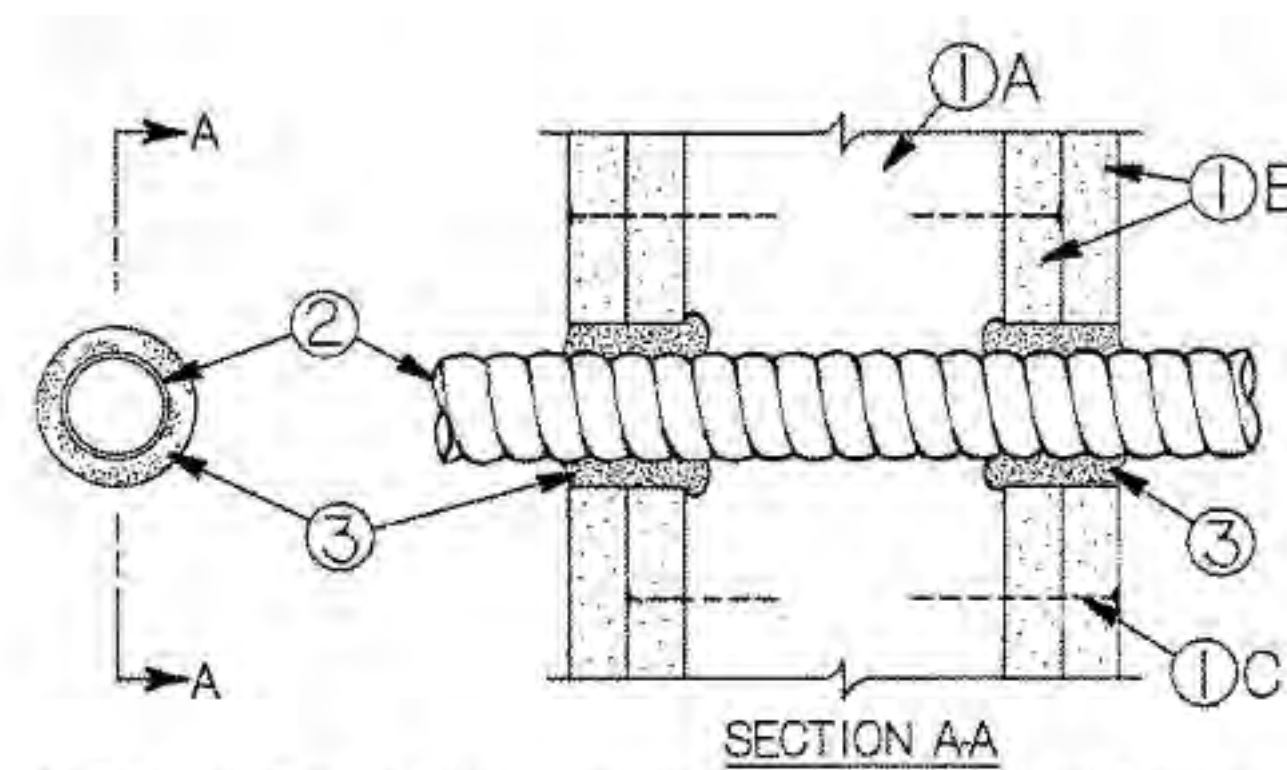
- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 deep channels spaced max 24 in. OC.
B. Gypsum Board\* — Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 14-1/2 in. for wood stud walls and 17 in. for steel stud walls.
The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.
2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used.
A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. When steel pipe is used, T Rating is 1 hr.
B. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing. When copper tubing is used, T Rating is 1/2 and 1 hr when installed in 1 and 2 hr rated walls, respectively.
C. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe. When copper pipe is used, T Rating is 1/2 and 1 hr when installed in 1 and 2 hr rated walls, respectively.
3. Pipe Covering\* — Nom 1 or 1-1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints sealed with metal fastener strip tape supplied with the product.
See Pipe and Equipment Coverings — Materials — (BRCU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Steel Sleeve — Cylindrical sleeve fabricated from min 0.019 in. thick (No. 28 gauge) galv sheet steel and having a min 2 in. lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall plus 1 in. such that, when installed, the ends of the sleeve will project approx 1/2 in. beyond the surface of the wall on both sides of the wall assembly. The diam of the openings cut in the gypsum wallboard layers on each side of the wall assembly (concentric with pipe) to be 2 to 2-1/2 in. larger than outside diam of pipe insulation such that when the steel sleeve is installed, a 1 to 1-1/4 in. annular space will be present between the steel sleeve and the pipe insulation around the entire circumference of the pipe. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum wallboard layers.
5. Packing Material — Polyethylene backed rod or min 1 in. thickness of mineral wool batt insulation firmly packed into steel sleeve on both sides of the wall assembly as permanent forms. Packing material to be recessed min 1 in. from end of steel sleeve (recessed min 1/2 in. into gypsum wallboard surface) on both sides of wall assembly.
6. Fill, Void or Cavity Materials\* — Caulk or Sealant — Min 1 in. thickness of fill material applied within annulus on both sides of wall assembly. Thickness for fill material for nom 3 in. diam (or smaller) steel pipes or conduits may be reduced to a min 1/2 in. A nom 1/4 in. diam continuous bead of caulk shall be applied around the circumference of the steel sleeve at its egress from the gypsum wallboard layers on both sides of the wall assembly.
3M COMPANY — CP-25WB+ or FB-3000 WT

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-3015

August 18, 2001

F Rating — 1 and 2 Hr (See Item 3)
T Ratings — 0, 3/4 and 2 Hr (See Item 2)
L Rating at ambient — less than 1 CFM per sq ft. (See Item 3)
L Rating at 400 F — less than 1 CFM per sq ft. (See Item 3)



SECTION AA

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

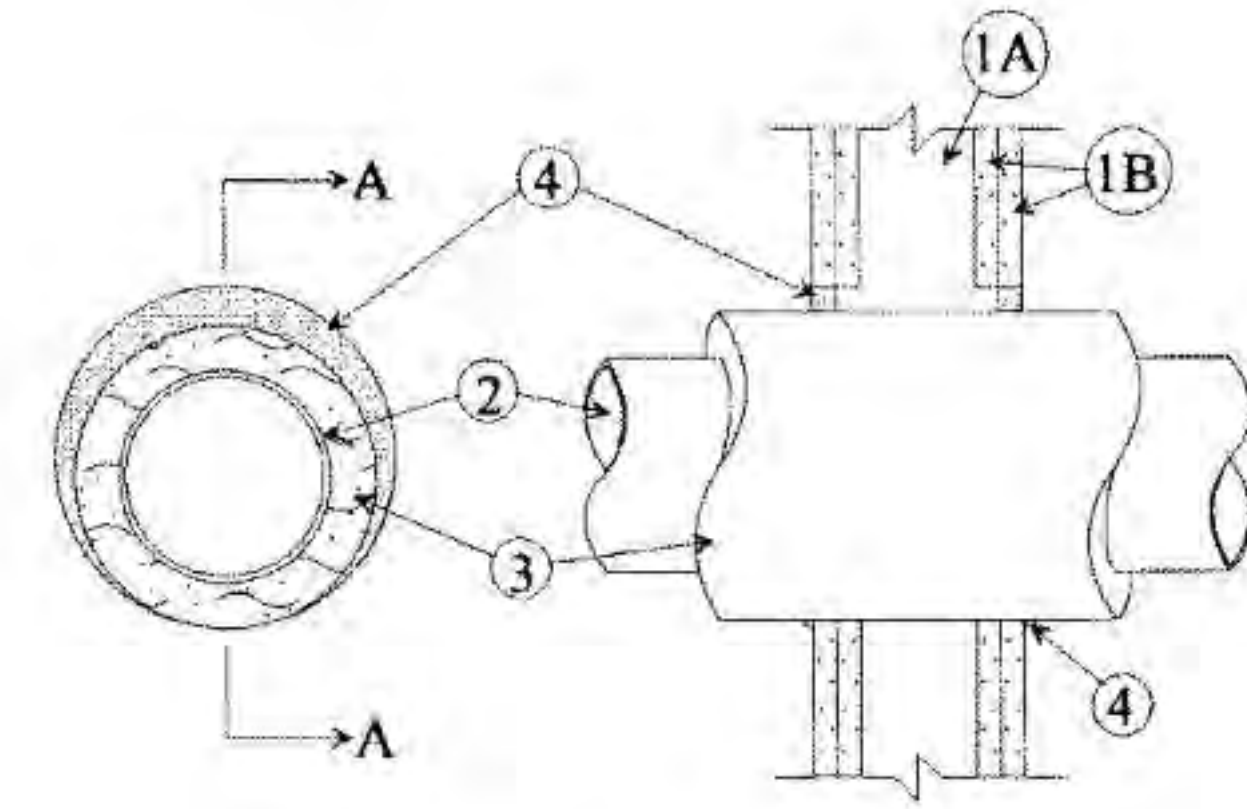
- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
B. Gypsum Board\* — Nom 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of openings cut in gypsum board is 2 in.
C. Fasteners — When wood stud framing is employed gypsum board attached to studs with cement coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum board attached to studs with Type 5 self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design. Diam of circular through opening cut through gypsum board on each side of wall assembly to be min 1/4 in. to max 1 1/16 in. larger than diam of through penetrating product (item 2) installed in through opening. Side edge of circular opening to be min 3 in. from nearest stud in wall cavity.
2. Through Penetrating Product\* — Max one armored cable or metal clad cable to be installed near center of circular opening in gypsum board. Through penetrating product to be rigidly supported on both sides of wall assembly. The following types of Through-Penetrating Products may be used:
A. Max four copper conductors No. 2/0 AWG (or smaller) aluminum or steel Armored Cable or Metal-Clad Cable. AFC CABLE SYSTEMS INC.
B. Two or more twisted copper conductors No. 6 AWG (or smaller) Power Limited Circuit Cable+ with or without a jacket under a metal armor. AFC CABLE SYSTEMS INC.
C. Two or more twisted copper conductors No. 10 AWG (or smaller) Power Limited Fire Alarm Cable+ with or without a jacket under a metal armor. AFC CABLE SYSTEMS INC.
D. Two or more twisted copper conductors No. 12 AWG (or smaller) Non Power Limited Fire Alarm Cable+ with or without a jacket under a metal armor. AFC CABLE SYSTEMS INC.
When installed in 1 hr fire rated wall assembly, T Rating is 0 hr. When installed in 2 hr fire rated wall assembly, T Rating is 3/4 hr when max armored cable, metal-clad cable or power limited circuit cables are used. The T Rating is 2 hr when non power limited fire alarm cable is used.
3. Fill, Void or Cavity Material\* — Caulk — Caulk fill material forced into annular space around entire circumference of through penetrating product to completely fill opening in gypsum board on each side of the wall assembly. A min 5/8 in. thickness of caulk is required for the 1 hr F Rating. A min 1-1/4 in. thickness of caulk is required for the 2 hr F Rating.
3M COMPANY — CP-25WB+

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System No. W-L-5040

May 02, 2003

F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1/4, 1/2 and 3/4 Hr (See Item 2)



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
B. Gypsum Board\* — Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening in wallboard layers is 7 in.
The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.
2. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used.
A. Steel Pipe — Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. When steel pipe is used, T Rating is 3/4 hr.
B. Copper Tubing — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing. T Rating is 3/4 hr for copper tubing of nom 2 in. diam and smaller. For copper tubing greater than nom 2 in. diam, T Rating is 1/4 and 1/2 hr when installed in 1 and 2 hr rated walls, respectively.
C. Copper Pipe — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe. T Rating is 3/4 hr for copper pipe of nom 2 in. diam and smaller. For copper pipe greater than nom 2 in. diam, T Rating is 1/4 and 1/2 hr when installed in 1 and 2 hr rated wall respectively.
3. Pipe Insulation — Plastics# — Nom 1 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated pipe and the edge of the through opening shall be min zero in. (point contact) to max 1-1/4 in.
See Plastics# (GMFZ) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.
4. Fill, Void or Cavity Materials\* — Caulk or Sealant — Min 5/8 in. thickness of caulk applied within the annular space, flush with each surface of wall. A min 1/2 in. diam bead of caulk shall be applied to the pipe insulation/wallboard interface at the point contact location on both sides of wall.
3M COMPANY — CP-25WB+ or FB-3000 WT
#Bearing the UL Classification Marking.
#Bearing the UL Recognized Component Marking



5195 S. Durango Drive
Suite #103
Las Vegas, NV 89113

Office: 702.888.2088
Fax: 702.888.2089
Web: www.kmearchitects.com
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SNRHA BENNETT PLAZA PHASE II
1818 Balzar Ave., Las Vegas, NV 89106

PROJECT:

SHEET TITLE:

PENETRATION / EXPANSION DETAILS

Table with 3 columns: No., Description, Date. Multiple empty rows for revisions.

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DATE:
JOB NO: 2023-014
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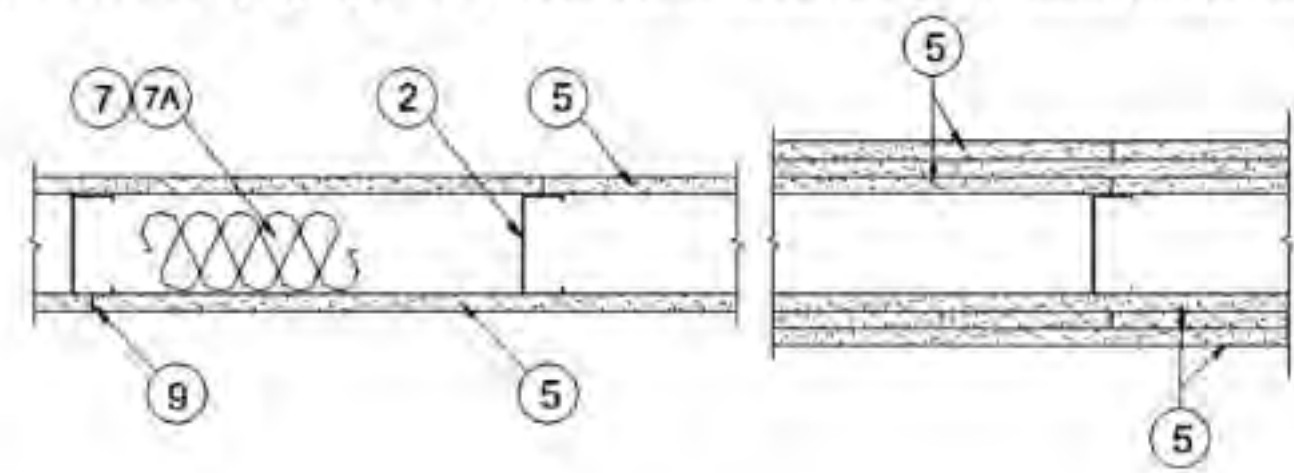
SHEET

A8.60

Design No. V478

January 04, 2021

Bearing Wall Ratings — 3/4, 1, 1-1/2 or 2 Hr (See Items 5 & 7)
\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel...

2. Steel Studs — Mini 0.0329 in., bare metal thickness (No. 20 MSG) corrosion-protected steel studs, min 3-1/2 in. wide, cold formed, designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI)...

2A. Steel Studs — (As an alternate to item 2, for use with item 5A, 5B, and 5C) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel...

3. Lateral Support Members — (Not Shown) — Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.

4. Wood Structural Panel Sheathing — (Optional, For use with Item 5 only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC P51 or P52, or APA Standard PRP-108...

5. Gypsum Board\* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs...

Wallboard Protection on Each Side of Wall

Table with 3 columns: Rating, No. of Layers & Thins of Panel, % of Design Load. Rows include 45 Min, 1 hr, 1-1/2 hr, 2 hr, 2 hr@, and 2 hr.

Table with 3 columns: Rating, No. of Layers & Thins of Panel, % of Design Load. Row for 2 hr, 2 layers, 3/4 in. thick, 100.

@ Rating applicable when Batts and Blankets (Item 7) are used.

CGC INC — 1/2 in. thick Type IP-X2, IPC-AR, C, WRC, or 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AA, C, IP-AR, IP-X2, IPC-AR, ULX, ULX@, USGX (joint tape and compound, Item 9, optional for use with Type USGX) or WRC, 3/4 in. thick Types AR, IP-AR, IP-X3, ULTRACODE.

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR, or WRC; 5/8 in. thick Type AR, C, FRX-G, IP-AR, IP-X1, IPC-AR, IP-X2, SCX, SHX, ULX, USGX (joint tape and compound, Item 9, optional for use with Type USGX), WRX, WRC; 3/4 in. thick Types AR, IP-AR, IP-X3, ULTRACODE.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C, 5/8 in. Type C, SCX, ULTRACODE, USGX (joint tape and compound, Item 9, optional for use with Type USGX).

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR, WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, ULX@, USGX (joint tape and compound, Item 9, optional for use with Type USGX), WRX or WRC, 3/4 in. thick Types AR, IP-AR, IP-X3, ULTRACODE.

5A. Gypsum Board\* — (As an alternate to Item 5 when used as the base layer on one or both sides of wall, for direct attachment only, not to be used with Item 4) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs.

5B. Gypsum Board\* — (As an alternate to Item 5 when used as the base layer on one or both sides of wall, for direct attachment only, not to be used with Item 4) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs.

5C. Gypsum Board\* — (As an alternate to Item 5 when used as the base layer on one or both sides of wall, for direct attachment only, not to be used with Item 4) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs.

6. Fasteners — (Not Shown) — Type 5-12 steel screws used to attach panels to runners (Item 1) and studs (Item 2) or furring channels (Item 8). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels...

7. Batts and Blankets\* — (Required as indicated under Item 5) — Nom 2 in. thick mineral wool batts, friction fitted between studs and runners.

7A. Batts and Blankets\* — (Optional, Not Shown) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

8. Furring Channels — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC.

8A. Steel Framing Members\* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:

b. Steel Framing Members\* — Used to attach furring channels (Item 8a) to studs (Item 2). Clips spaced max. 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling 5-12 steel screw through the center grommet.

8B. Steel Framing Members\* — (Optional — Not Shown) — Used as an alternate method to attach resilient channels (Item 8). Clips attached at each intersection of the resilient channel and the steel studs (Item 2).

8C. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

b. Steel Framing Members\* — Used to attach furring channels (Item 8c) to studs. Clips spaced 48 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole.

8D. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

b. Steel Framing Members\* — Used to attach furring channels (Item 8d) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole.

8E. Steel Framing Members\* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:

b. Steel Framing Members\* — Used to attach resilient channels (Item 8e) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole.

9. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers.

10. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies.

11. Caulking and Sealants\* — (Optional, Not Shown) — A bead of acoustical sealant applied around the perimeter for sound control.

12. Lead Batten Strips — (Not Shown, For Use With Item 5A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in.

13. Lead Discs or Tabs — (Not Shown, For Use With Item 5A) — Used in lieu of or in addition to the lead batten strips (Item 12) or optional at other locations.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



5195 S. Durango Drive Suite #103 Las Vegas, NV 89113

Office: 702.888.2088 Fax: 702.888.2089 Web: www.kmearchitects.com © KME Architects LLC, 2024



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PROJECT: SNRHA BENNETT PLAZA PHASE II 1818 Balzar Ave., Las Vegas, NV 89106

SHEET TITLE: PENETRATION / EXPANSION DETAILS

REVISIONS table with columns: No., Description, Date

DRAWN BY: KME DATE: JOB NO: 2023-014 SCALE: AS INDICATED ON EACH SCALE DRAWING

SHEET A8.61

D

C

B

A

UL Product IQ®

Wall Opening Protective Materials

See General Information for Wall Opening Protective Materials

3M COMPANY 3M FIRE PROTECTION PRODUCTS

ST PAUL, MN 55144 USA
Type MPP+ moldable putty pads for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates...

Type MPP+ moldable putty pads for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates...

Type MPP+ moldable putty pads for use with max 4 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with plastic cover plates...

Type MPP+ moldable putty pads for use with max 12 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates...

Type MPP+ moldable putty pads for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products...

Type MPP+ moldable putty pads for use with max 4 by 3-1/4 by 3-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Thomas & Betts Corp...

Type MPP+ moldable putty pads for use with max 4 by 3-1/4 by 3-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Thomas & Betts Corp...

Type MPP+ moldable putty pads for use with max 4 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with plastic cover plates...

Type MPP+ moldable putty pads for use with max 5 by 5 by 2-7/8 in. deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories...

Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the steel studs...

Last Updated on 2010-07-23

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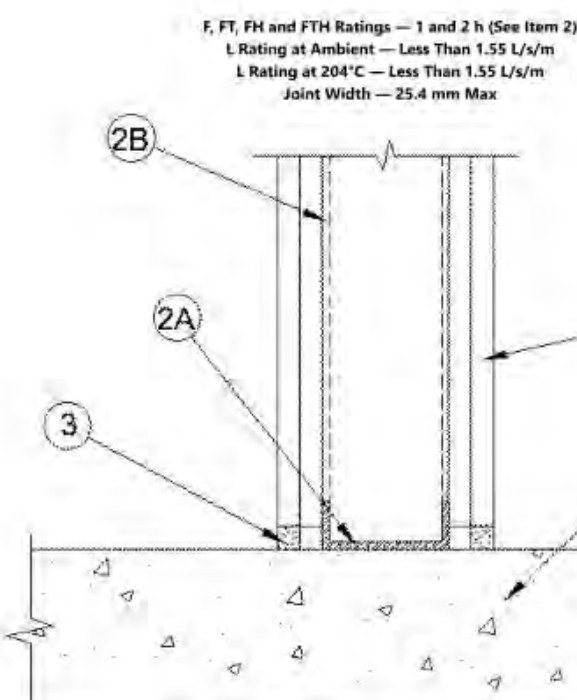
UL Product IQ®

XHEZC - Firestop Systems

System No. BW-S-0007

July 21, 2021

See General Information for Firestop Systems

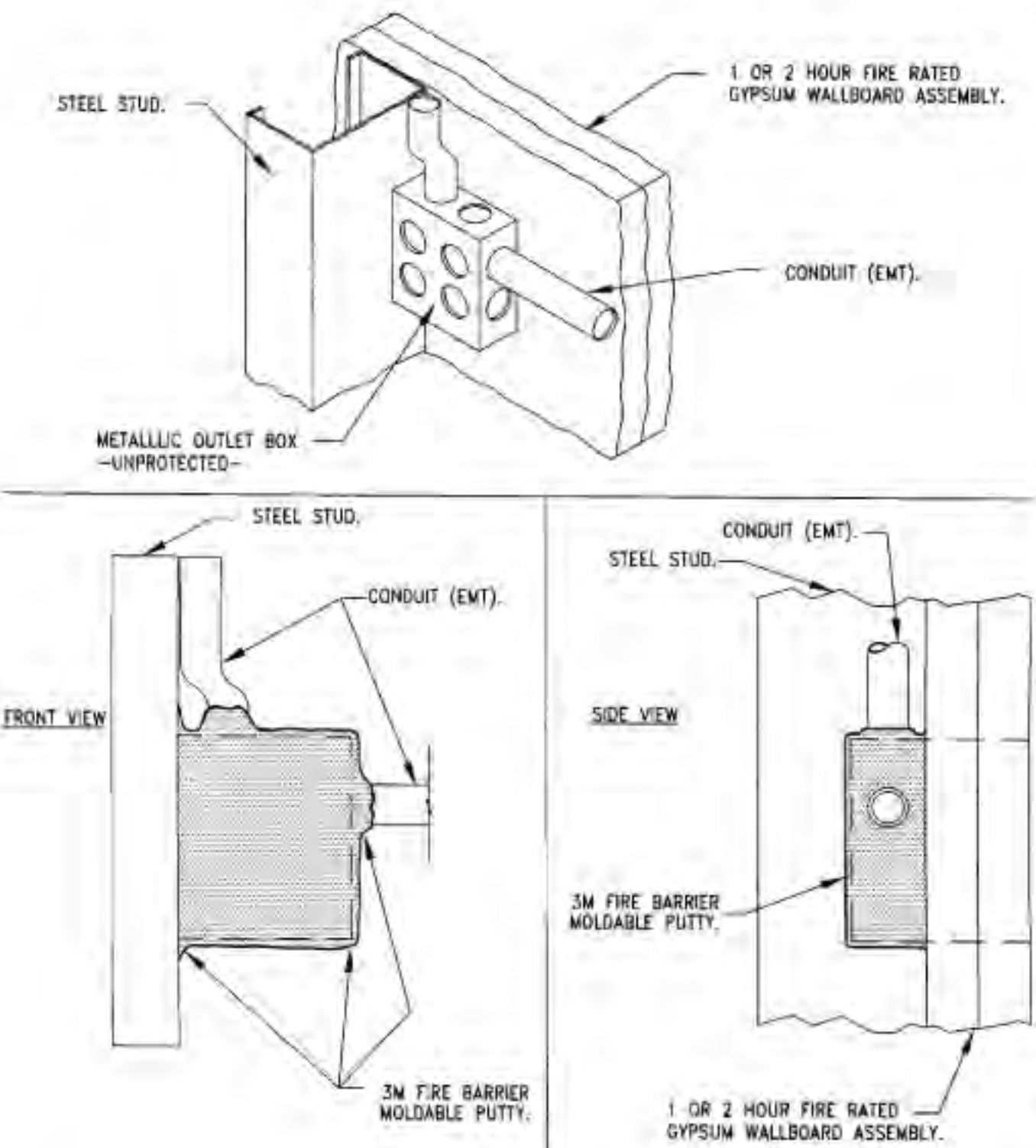


- 1. Floor Assembly - Min 4-1/2 in. (114 mm) thick reinforced (lightweight or normal weight) 1500-1500 psi or 1600-2400 kg/m³ structural concrete.
2. Wall Assembly - The 1 or 2 hr fire-rated gypsum board wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or U400 Series Wall or Partition Design in the ULC Fire Resistance Directory...
3. Steel Floor Runner - Floor runner of wall assembly shall consist of min No. 25 galvanized steel channels...
4. Studs - Steel studs to be min 3-1/2 in. wide, (89 mm) Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom resting in, resting on and fastened to floor runner with steel metal screws...
5. Gypsum Board - Gypsum board installed to a min total thickness of 5/8 in. (15.9 mm), (16 or 32 mm on each side of wall for a 1 or 2 hr fire-rated wall, respectively, Wall to be constructed as specified in the individual U400 or U400 Series Design in the ULC Fire Resistance Directory...
6. Fill Void or Cavity Material - Caulk or Sealant - Max separation between top of floor and bottom of gypsum board is 1 in. (25 mm), Min 5/8 in. (16 mm) thickness of 18 material installed on each side of the wall between the bottom of the concrete floor, flush with each surface of the wall.

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Suggested Installation for 3M™ Fire Barrier Moldable Putty+ on Electrical Outlet Boxes



www.3m.com/3mfire 1-800-368-1600 3M Fire Protection Products Through Distributors, Suppliers and Certified Installers

402 GA-600-2021 FIRE RESISTANCE AND SOUND CONTROL DESIGN MANUAL

Table with 3 columns: GA File No., Generic, and 1 Hour Fire. Rows include Strain Relief Systems, Steel Runner (Track), Steel Studs, Drywall Trim, Sealant; and Steel Runner (Track), Steel Studs, Restraining Angles, Sealant.

The descriptions in this manual are summaries. For complete assembly information, review the listed design. ©2021 by the Gypsum Association www.gypsum.org

KME ARCHITECTS
5195 S. Durango Drive
Suite #103
Las Vegas, NV 89113
Office: 702.888.2088
Fax: 702.888.2089
Web: www.kmearchitects.com
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PROJECT: SNRHA BENNETT PLAZA PHASE II
1818 Balzar Ave., Las Vegas, NV 89106
SHEET TITLE: PENETRATION / EXPANSION DETAILS

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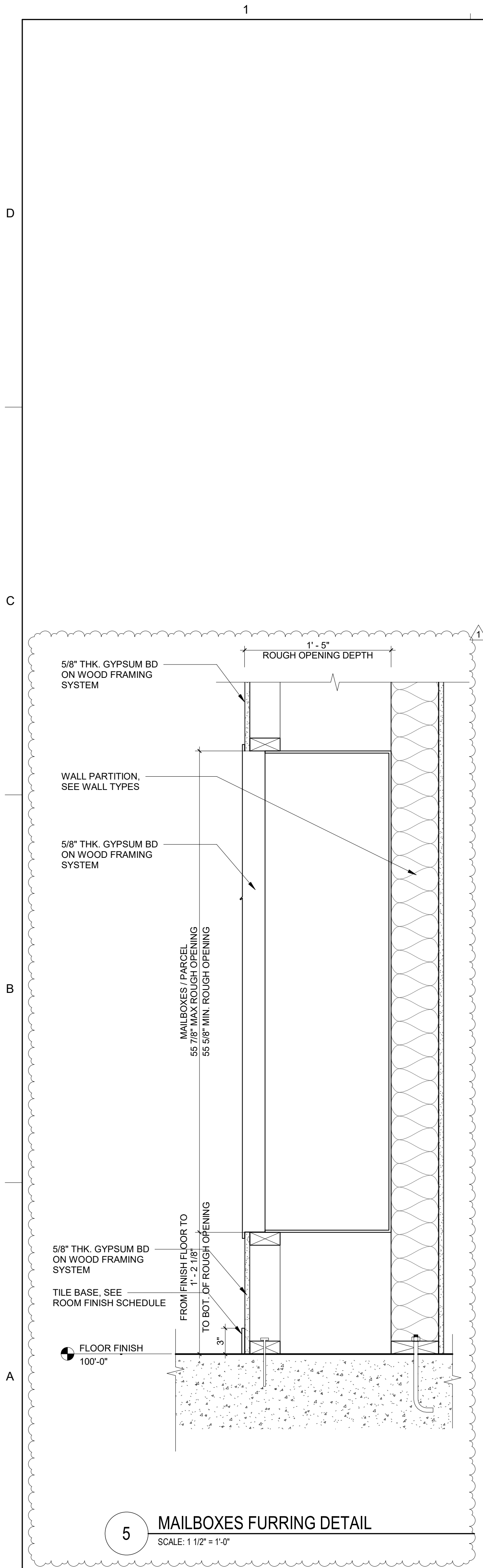
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SHEET A8.62

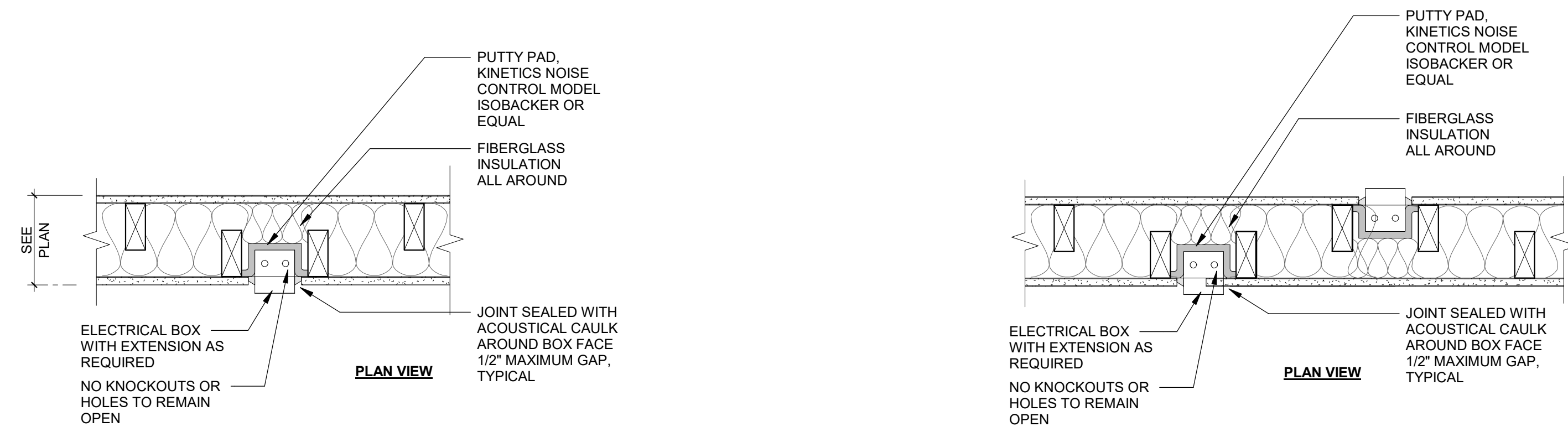
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No.	Description	Date
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CONTRACT SCALE DRAWINGS

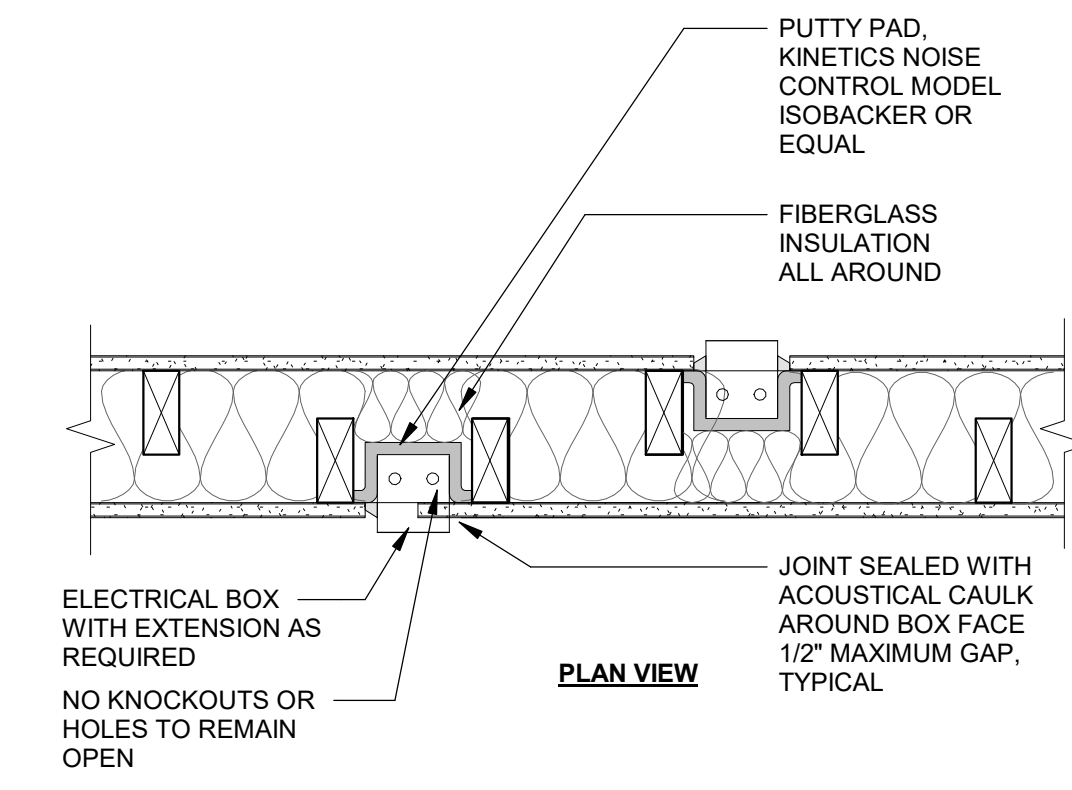
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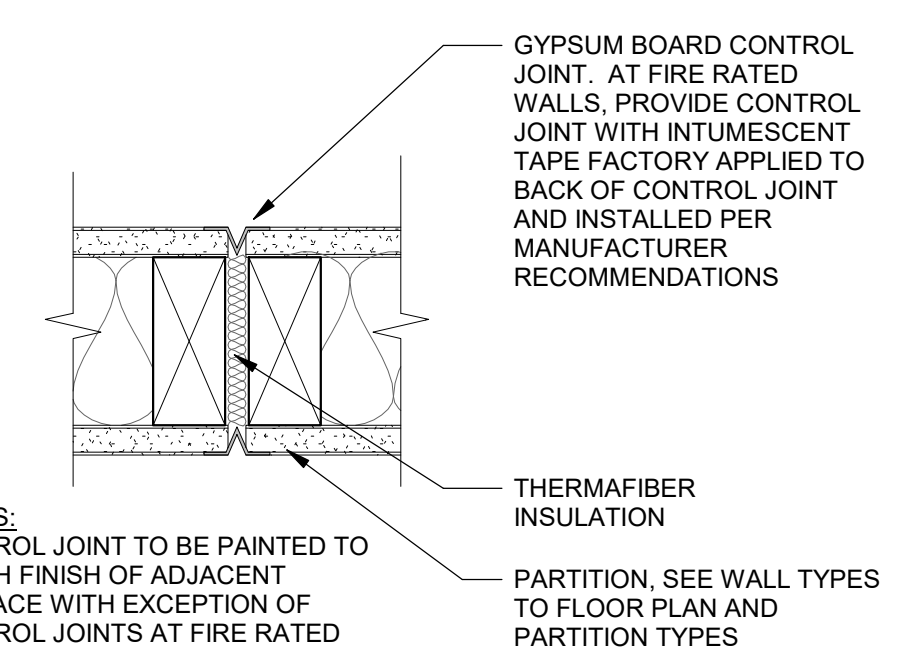
**5 MAILBOXES FURRING DETAIL**  
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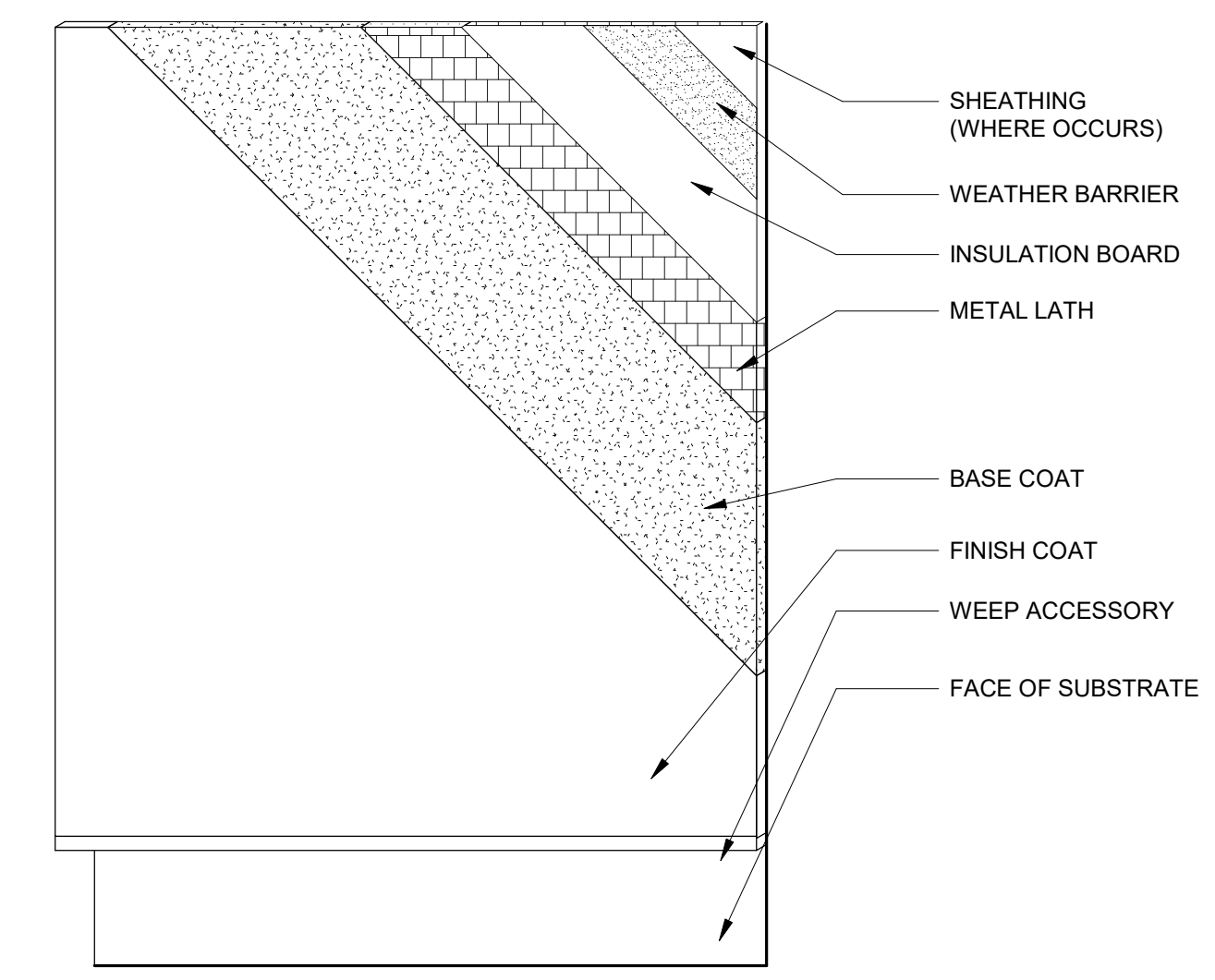
**3 ELECTRICAL BOX AT ACOUSTICAL PARTITION / RATED WALL**  
SCALE: 1 1/2" = 1'-0"



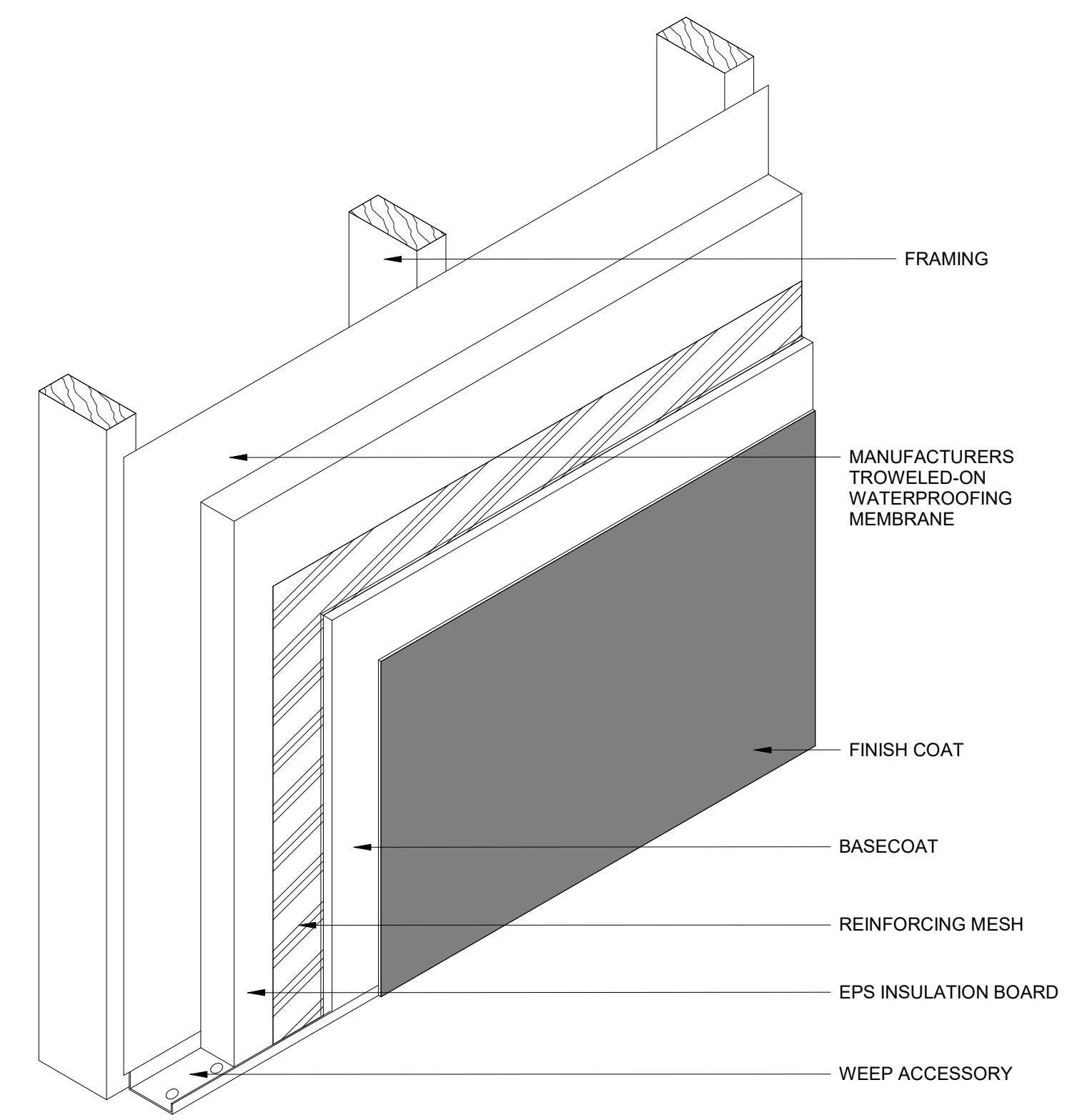
**2 BACK TO BACK ELECTRICAL BOXES AT ACOUSTICAL PARTITION / RATED WALL**  
SCALE: 1 1/2" = 1'-0"



**4 GYPSUM BOARD CONTROL JOINTS**  
SCALE: 3" = 1'-0"



**1 APPLICATION OVER SHEATHING**  
SCALE: 3" = 1'-0"



DOOR SCHEDULE

Table with columns: NUMBER, ROOM NO., ROOM NAME, DOOR (WIDTH, HEIGHT, TYPE, MATERIAL, LEAF, FINISH), DETAIL (HEAD, JAMB, THRES), FRAME (TYPE, MATERIAL, FINISH), HARDWARE, COMMENTS. Includes rows 100A-144 and 151-402.

DOOR SCHEDULE - TYPICAL UNIT

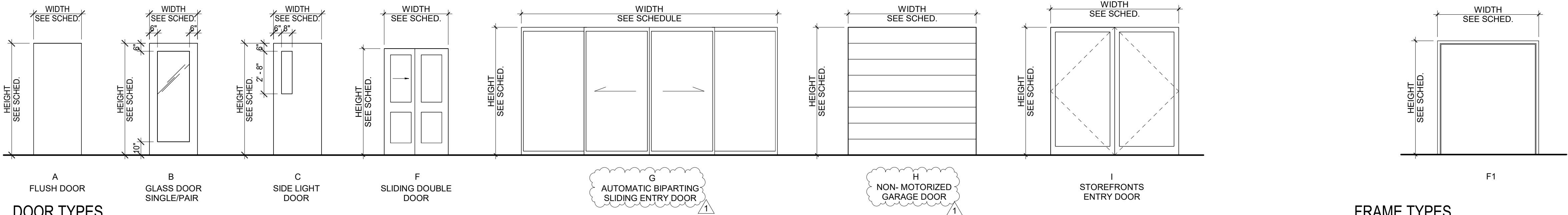
Table with columns: NUMBER, ROOM NO., ROOM NAME, DOOR (WIDTH, HEIGHT, TYPE, MATERIAL, LEAF, FINISH), DETAIL (HEAD, JAMB, THRES), FRAME (TYPE, MATERIAL, FINISH), HARDWARE, COMMENTS. Includes rows U1A01-U1C05 and U2D05-U2E11.

DOOR SCHEDULE GENERAL NOTES

- 1. REFER TO DOOR SCHEDULE FOR OPERATING TYPES, DOOR CONSTRUCTION TYPES AND DOOR FRAME TYPES.
2. REFER TO DOOR SCHEDULE AND ARCHITECTURAL SPECIFICATIONS FOR DOOR HARDWARE GROUPS AND CLASSIFICATIONS.
3. DOORS MUST MEET THE PROPER STC AND FIRE RATING REQUIREMENTS...

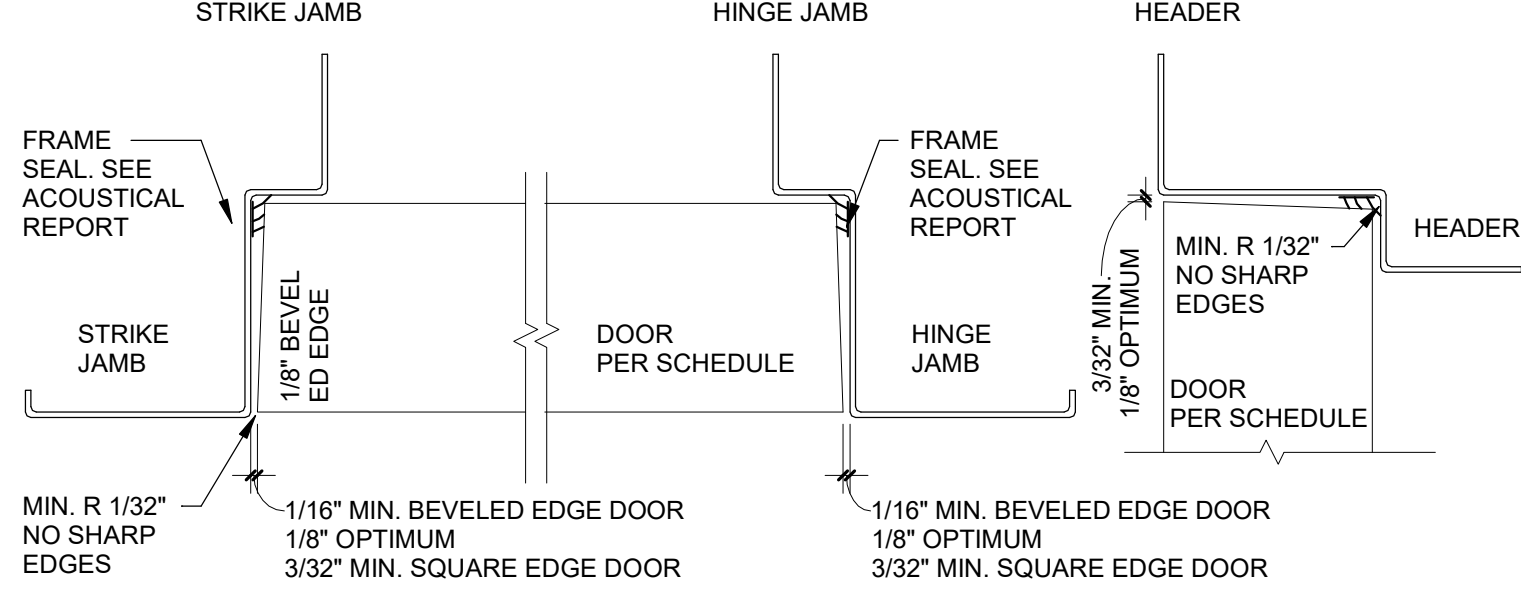
HARDWARE GROUPS

- GROUP # 1 (MAINTENANCE DOORS)
MANUFACTURER: JELDWEN OR APPROVED EQUAL
FINISH: SATIN CHROME
LOCK SET: STOREROOM LOCK, INTERIOR KEYED KNURLD KNOB...
GROUP # 2 (ENTRY DOORS)
MANUFACTURER: JELDWEN OR APPROVED EQUAL
FINISH: SATIN CHROME
LOCK SET: ADA LEVER WITH KEYED ENTRY LOCK...

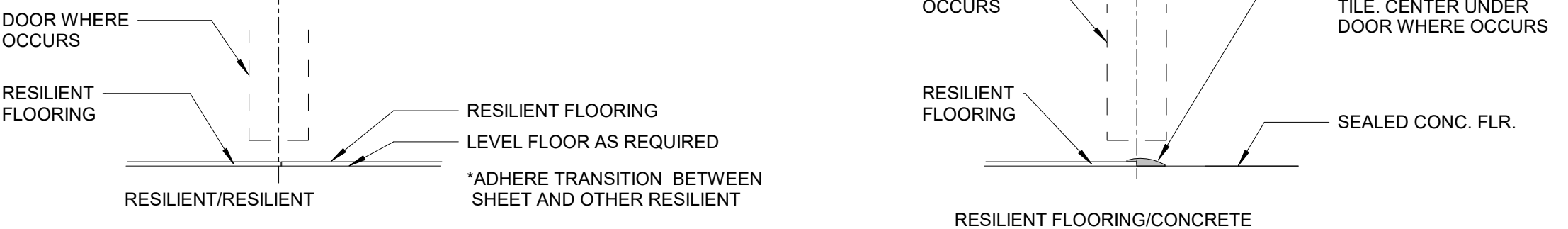


DOOR TYPES

FRAME TYPES



TYPICAL DOOR FRAME SEAL



TYPICAL FINISH FLOOR TRANSITIONS



5195 S. Durango Drive
Suite #103
Las Vegas, NV 89113

Office: 702.888.2088
Fax: 702.888.2089
Web: www.kmearchitects.com
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PROJECT: SNRHA BENNETT PLAZA PHASE II
1818 Balzar Ave., Las Vegas, NV 89106
SHEET TITLE: DOOR, FRAME AND HARDWARE SCHEDULES AND FRAME TYPES, AND TYPES

Table with columns: No., Description, Date. Row 1: 1, CLV.COM., 6/21/24

DRAWN BY: KME
DATE:
JOB NO: 2023-014
SCALE: AS INDICATED ON EACH SCALE DRAWING

SHEET A9.00



1

2

3

4

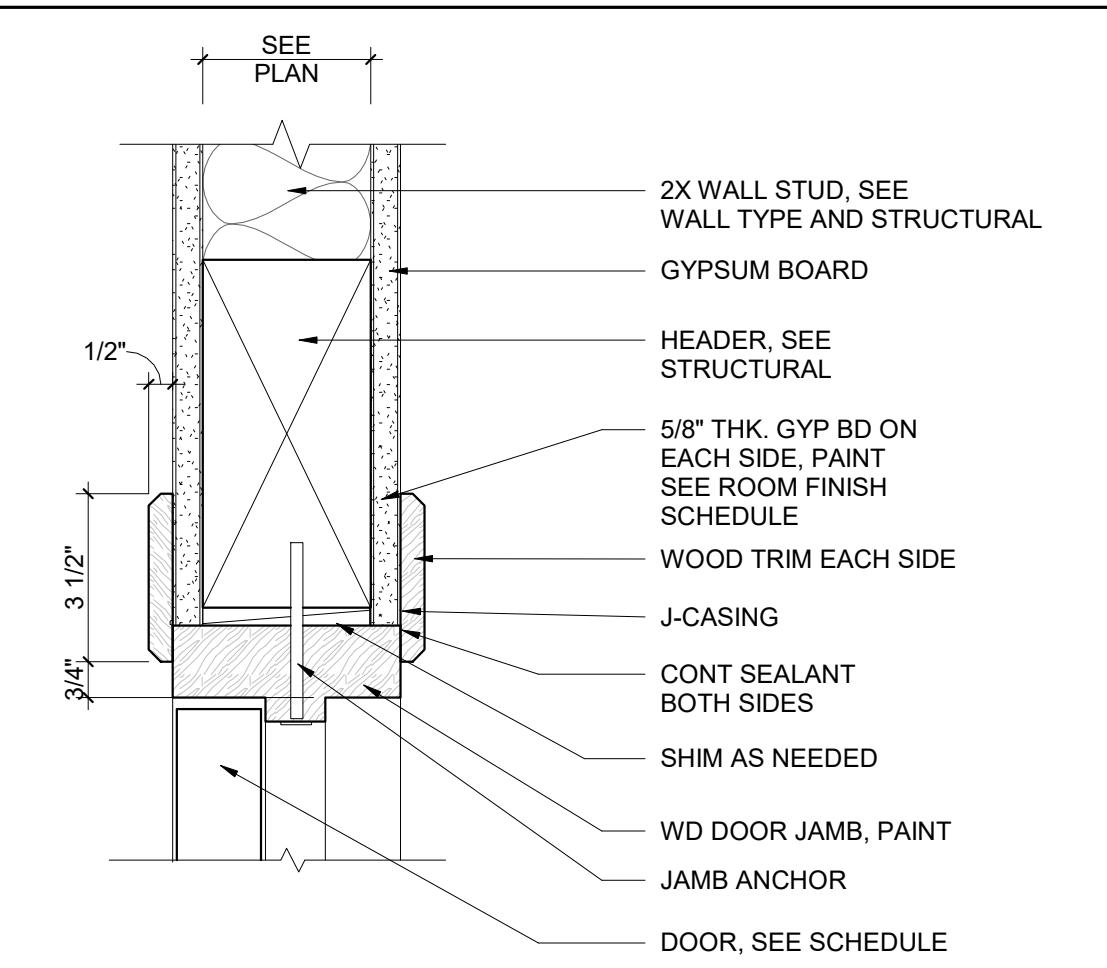
5

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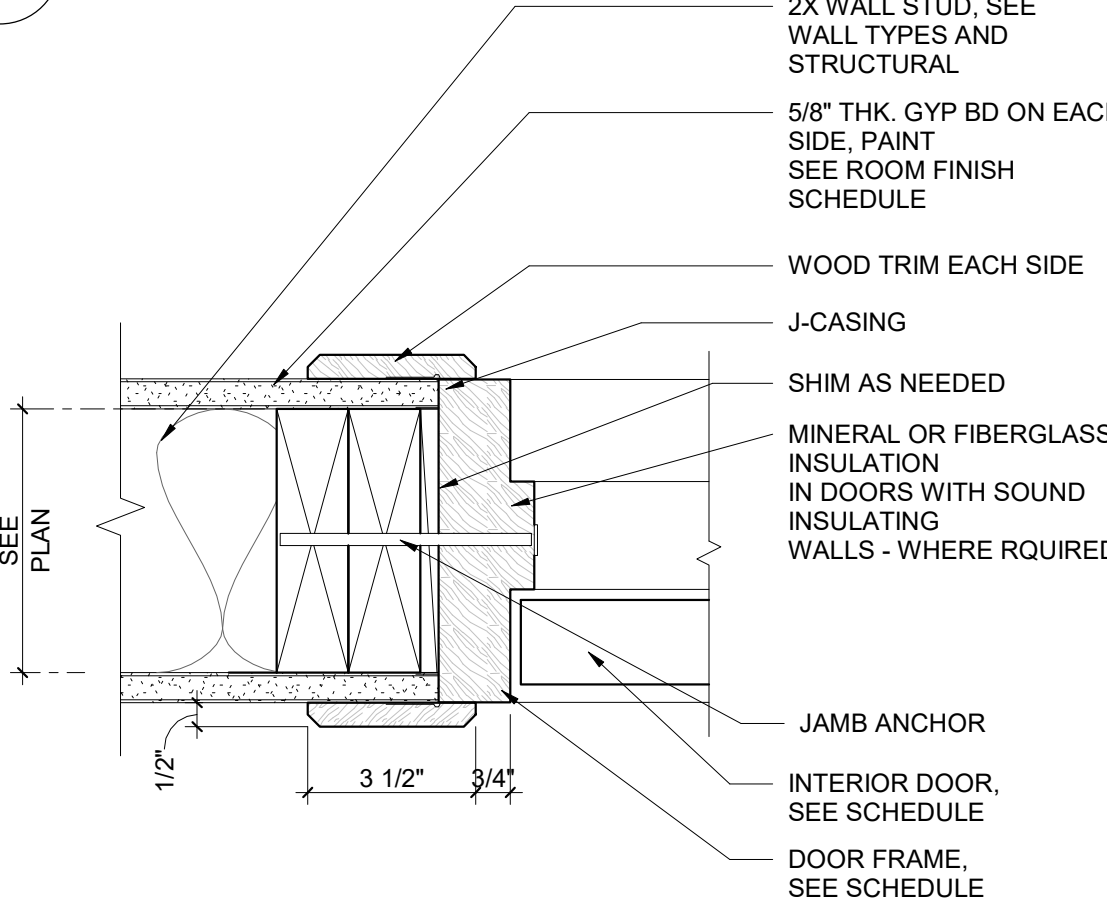
REVISIONS		
No.	Description	Date

DRAWN BY: KME  
DATE: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

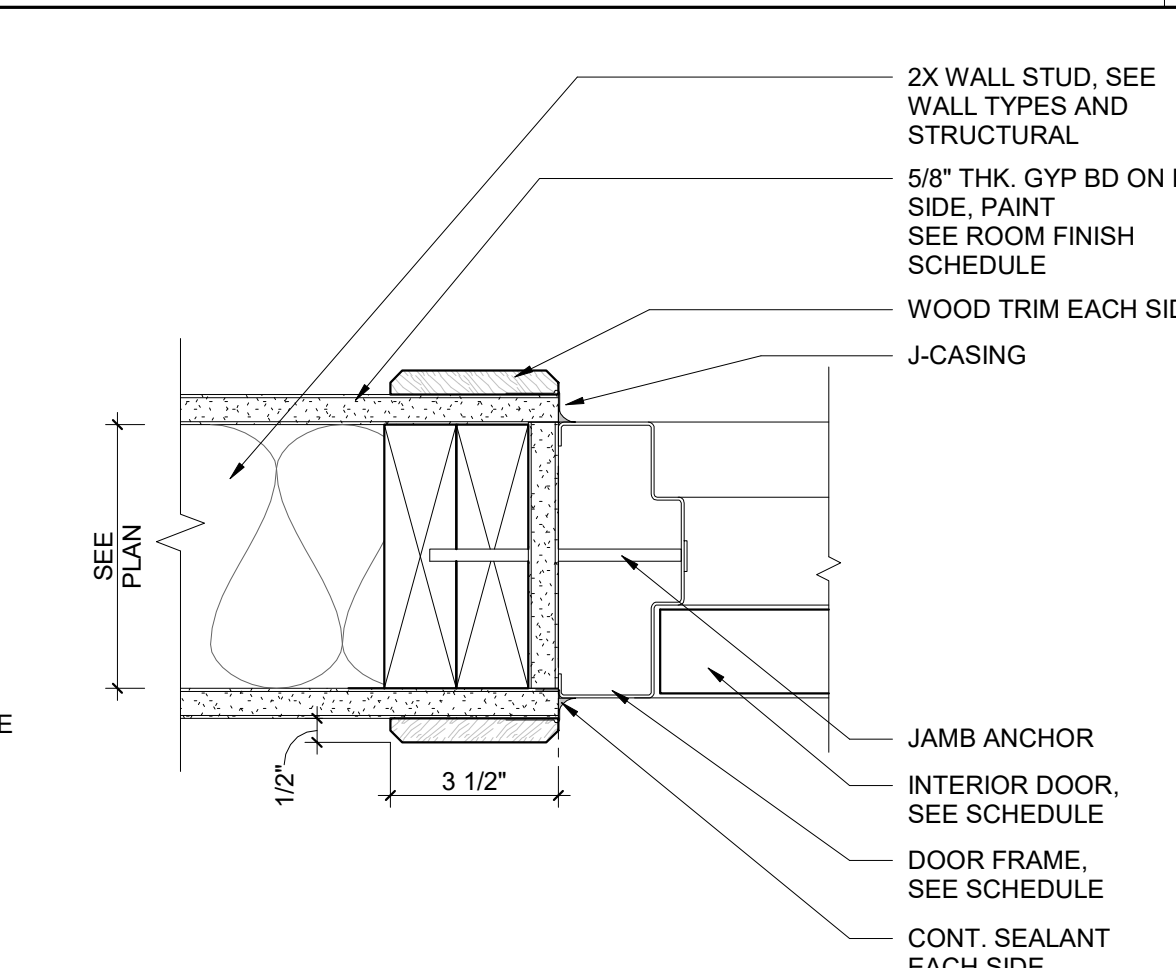
SHEET



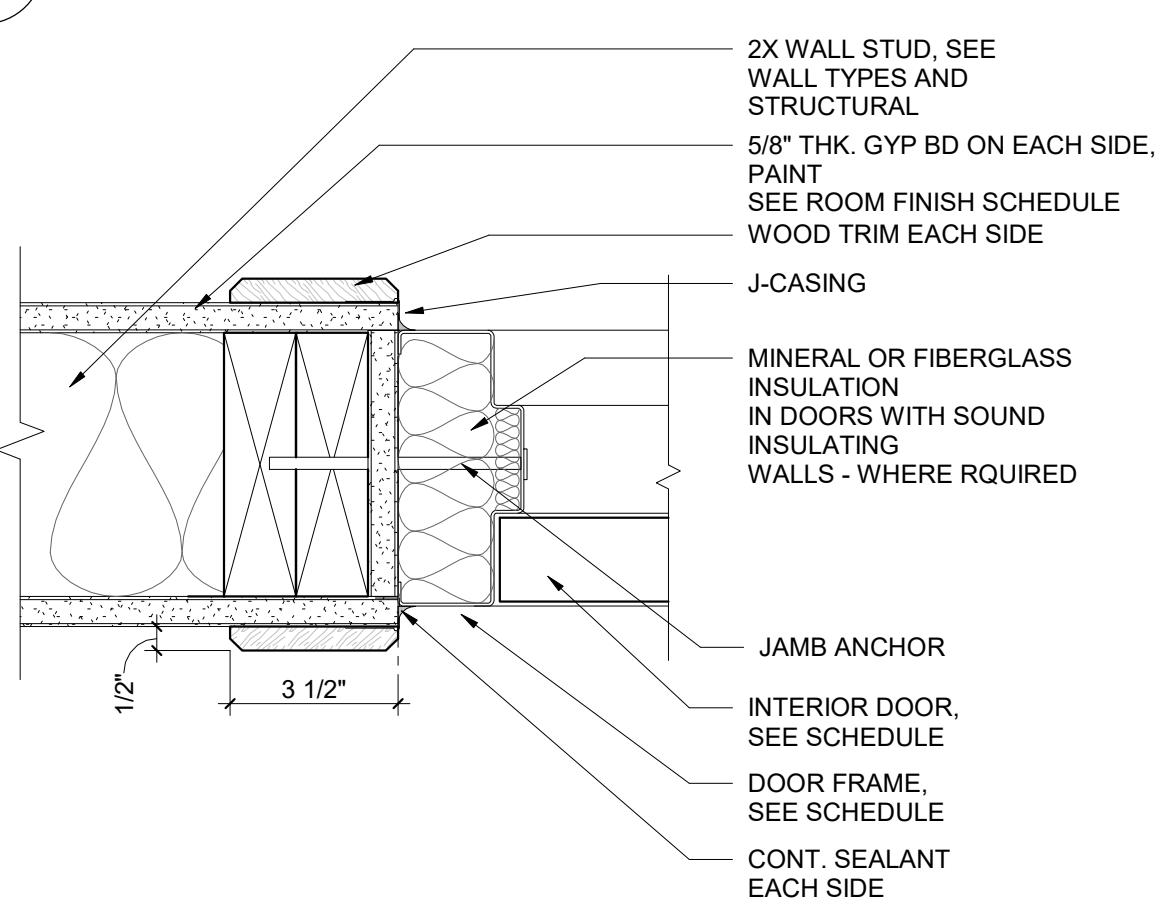
4 INTERIOR WD HEAD DETAIL  
SCALE: 3" = 1'-0"



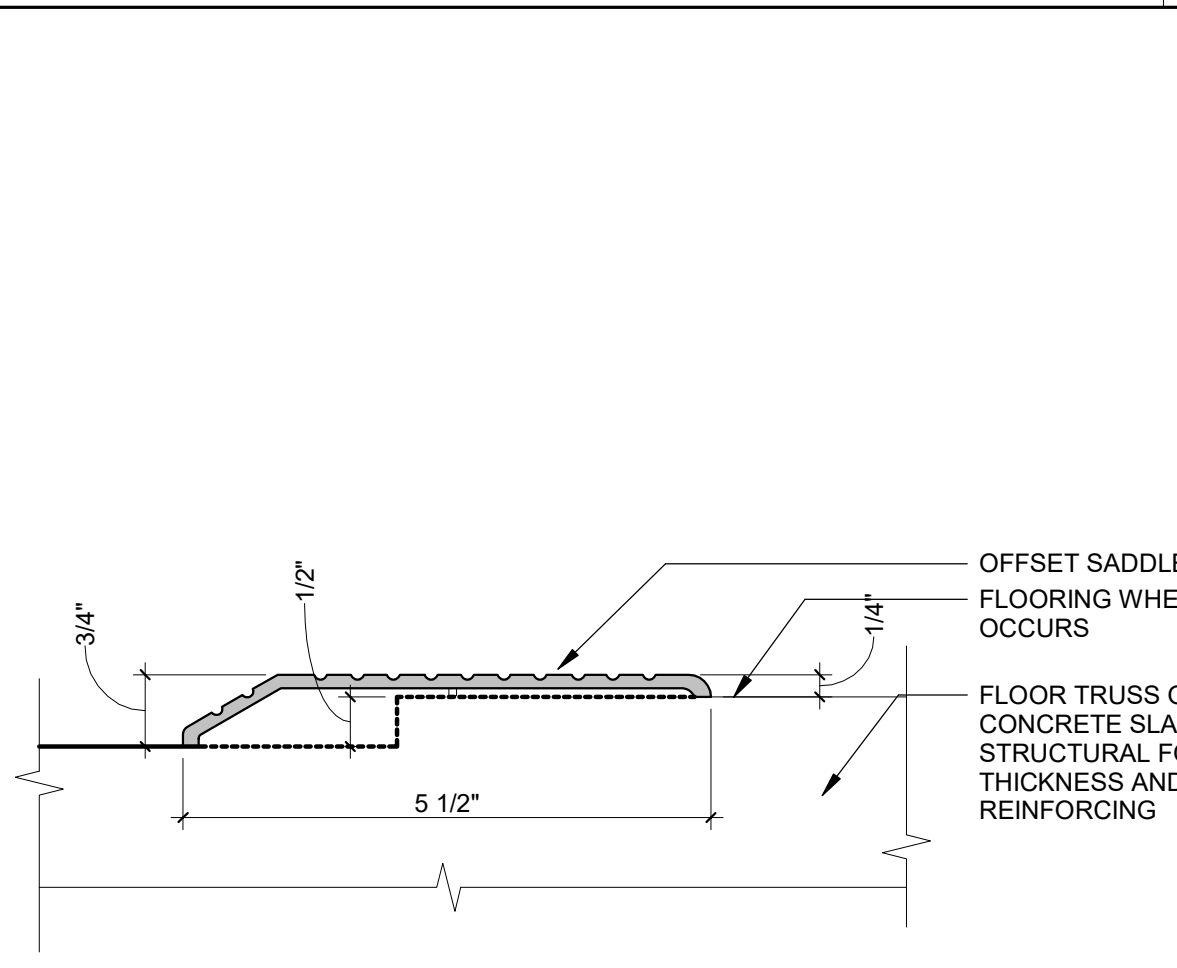
3 INTERIOR WD JAMB DETAIL  
SCALE: 3" = 1'-0"



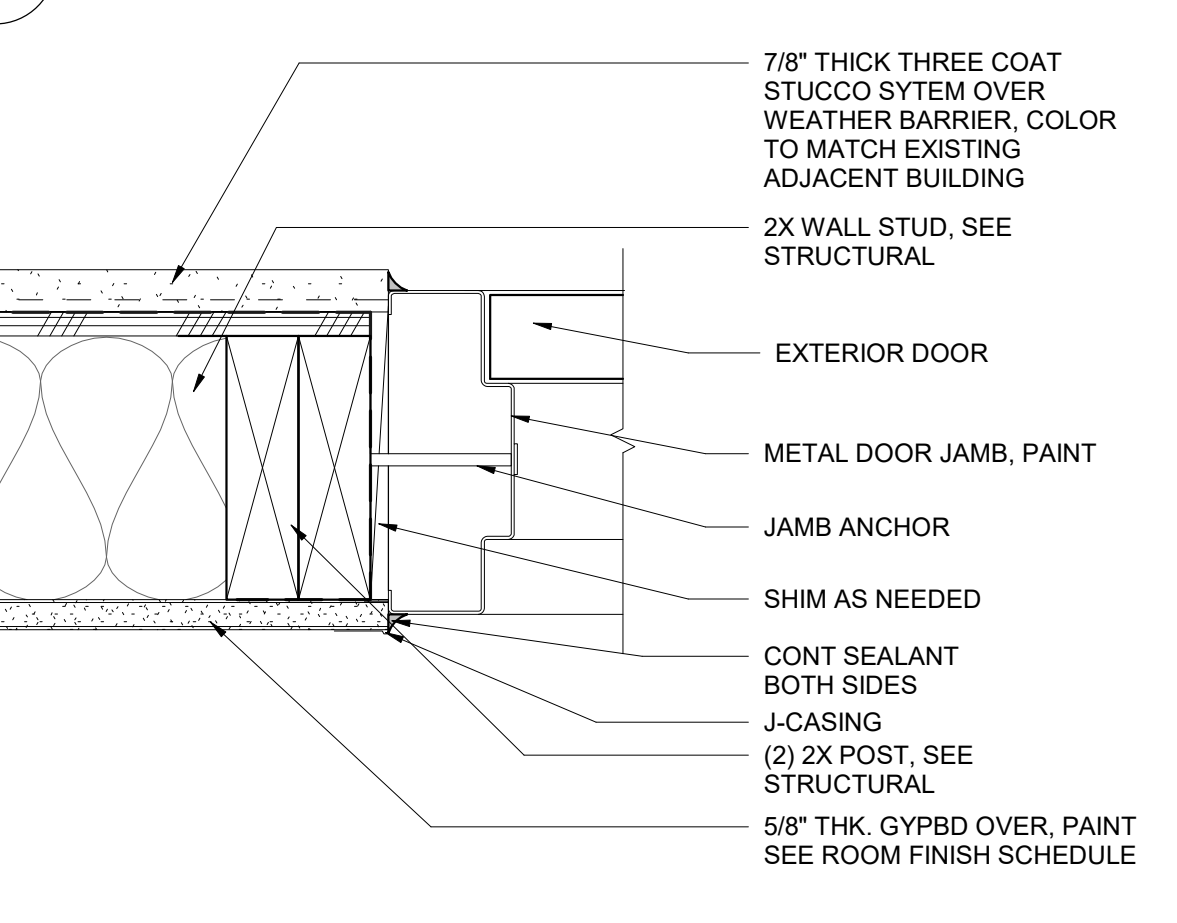
8 INTERIOR DOOR JAMB DETAIL  
SCALE: 3" = 1'-0"



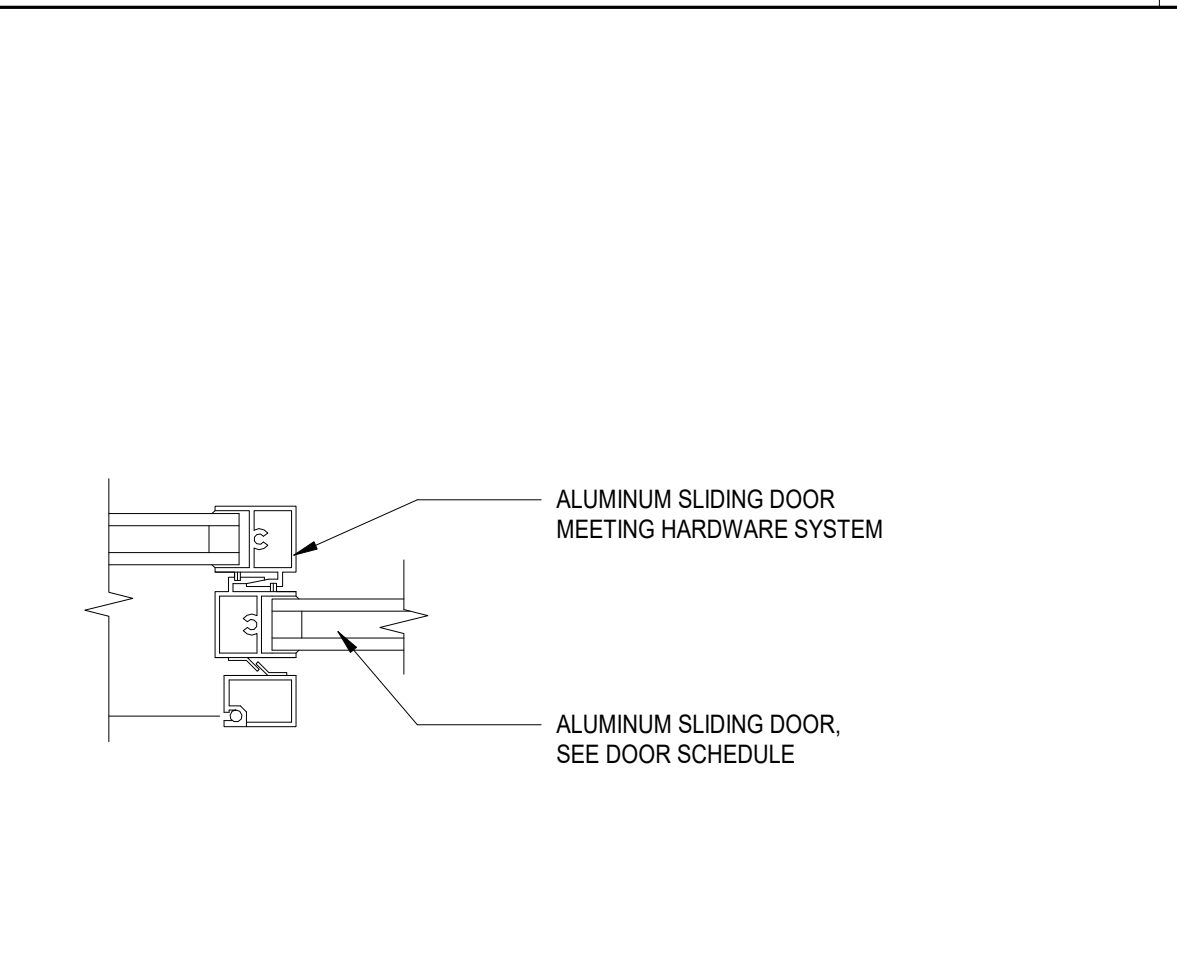
7 UNIT ENTRY 1-HR DOOR JAMB DETAIL  
SCALE: 3" = 1'-0"



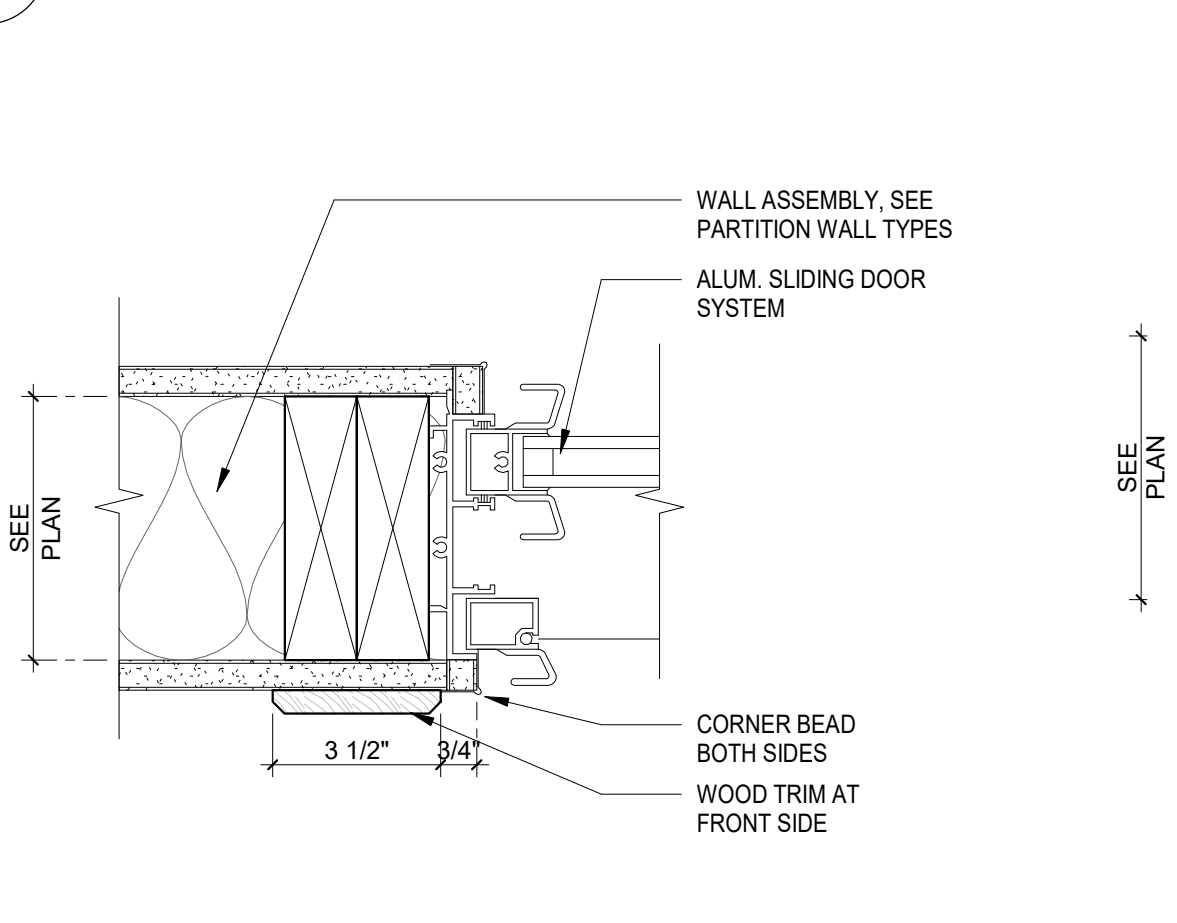
12 TYPICAL DOOR THRESHOLD OFFSET SADDLE  
SCALE: 6" = 1'-0"



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



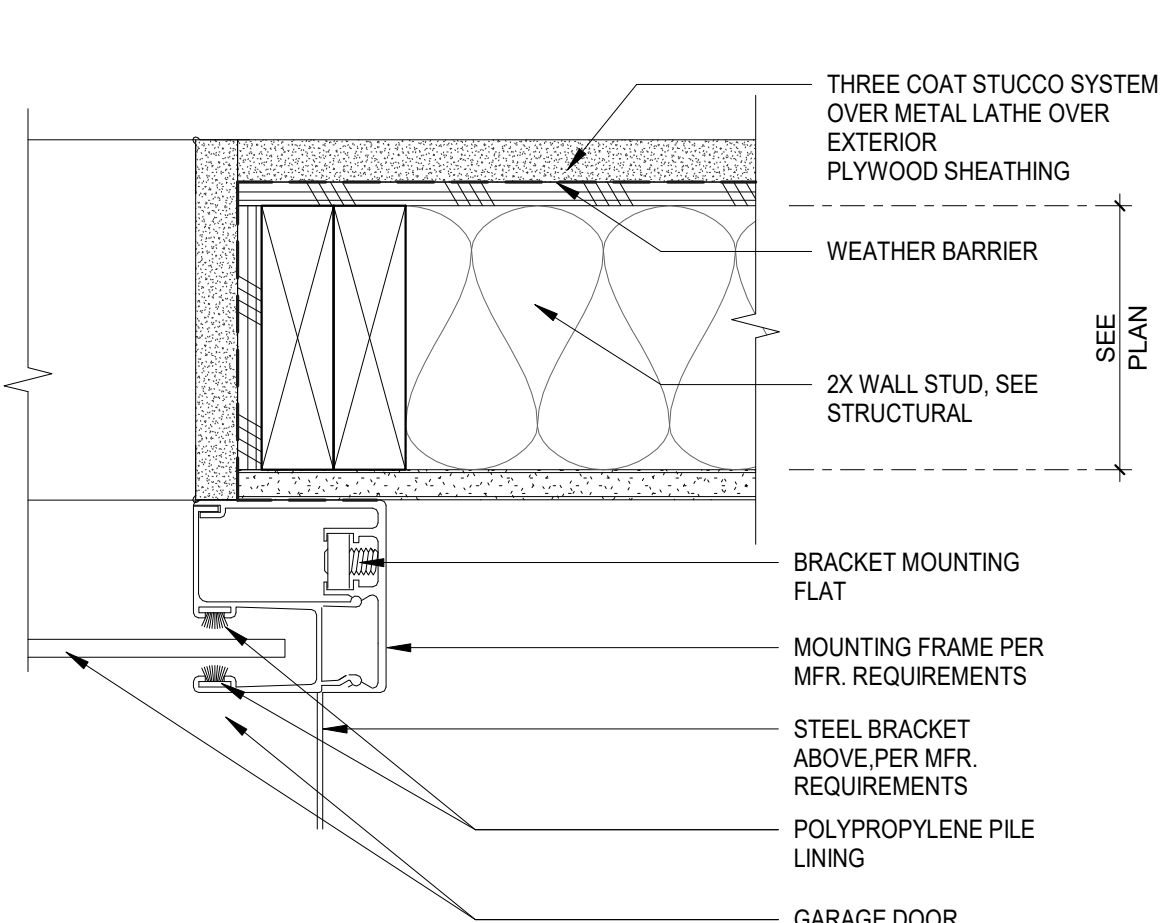
16 SLIDING DOOR MEETING SECTION  
SCALE: 3" = 1'-0"



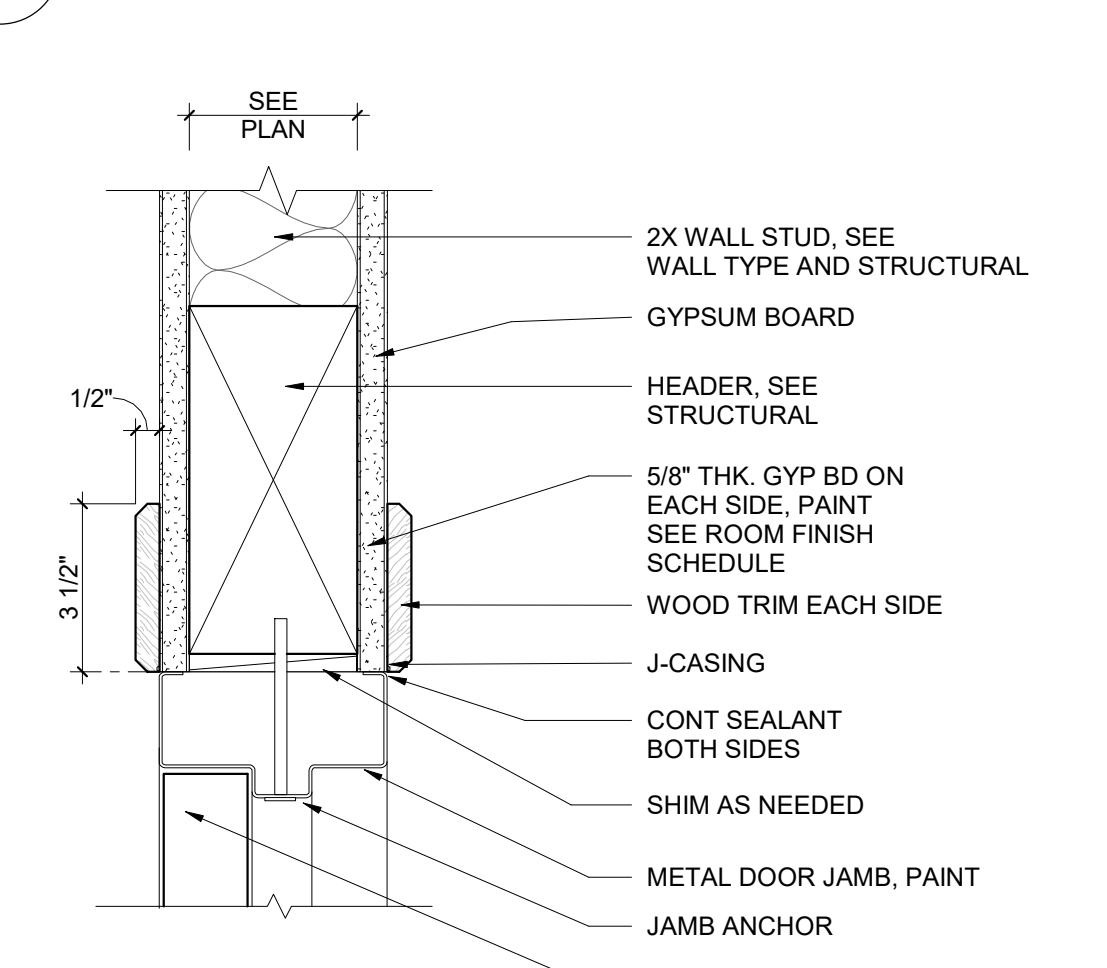
15 SLIDING DOOR JAMB AT WD STUD  
SCALE: 3" = 1'-0"



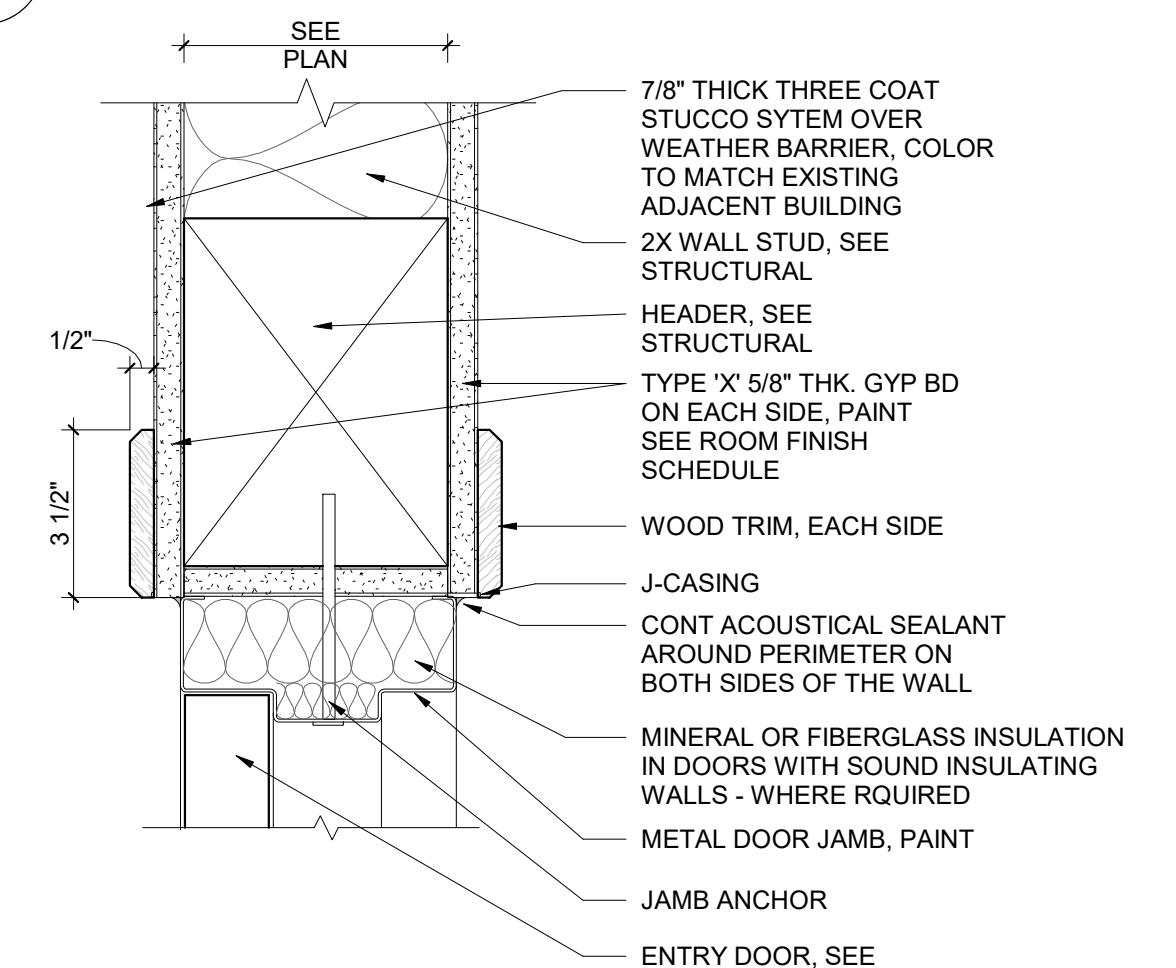
19 OVERHEAD COIL DOOR JAMB  
SCALE: 3" = 1'-0"



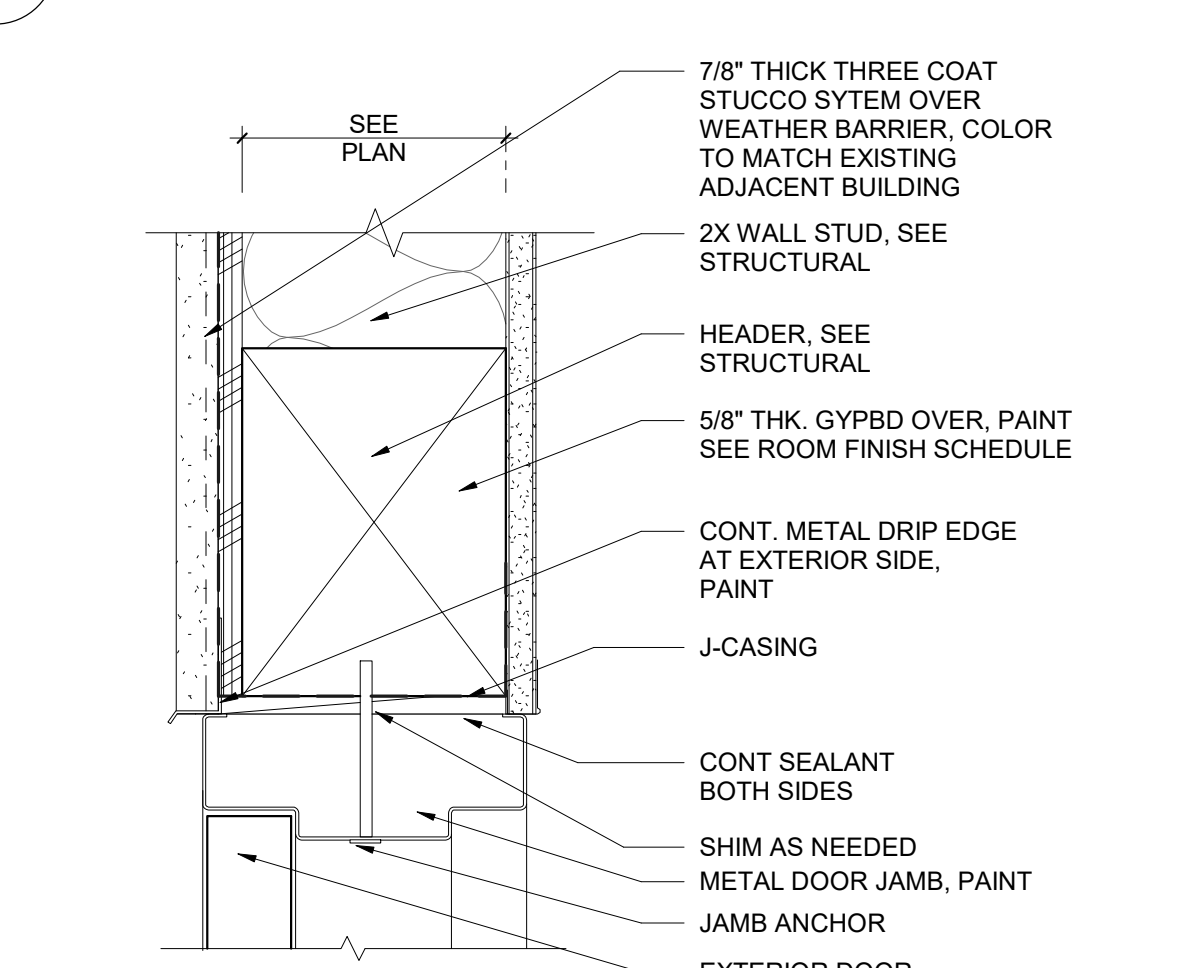
17 OVERHEAD COIL DOOR THRESHOLD  
SCALE: 3" = 1'-0"



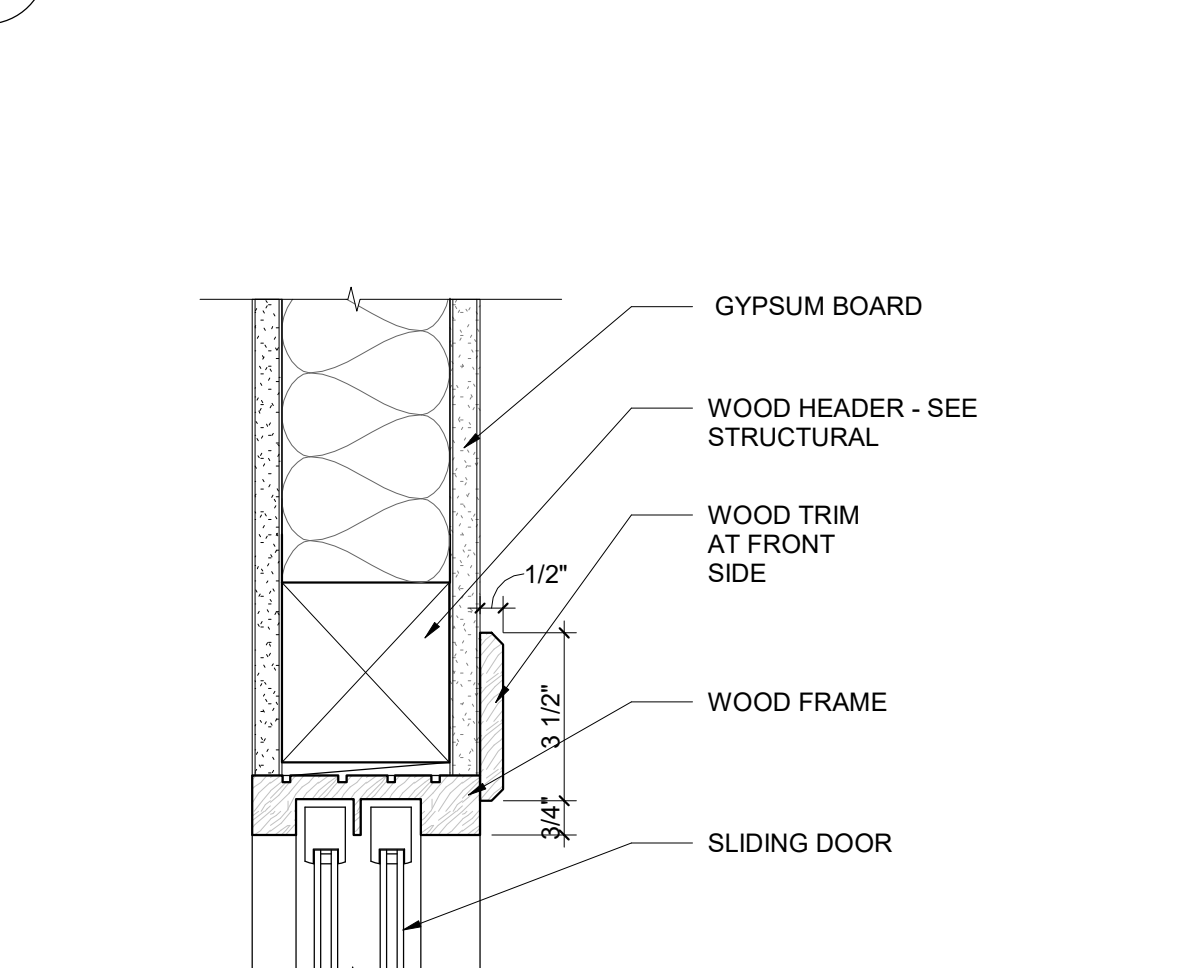
2 INTERIOR HEAD DETAIL  
SCALE: 3" = 1'-0"



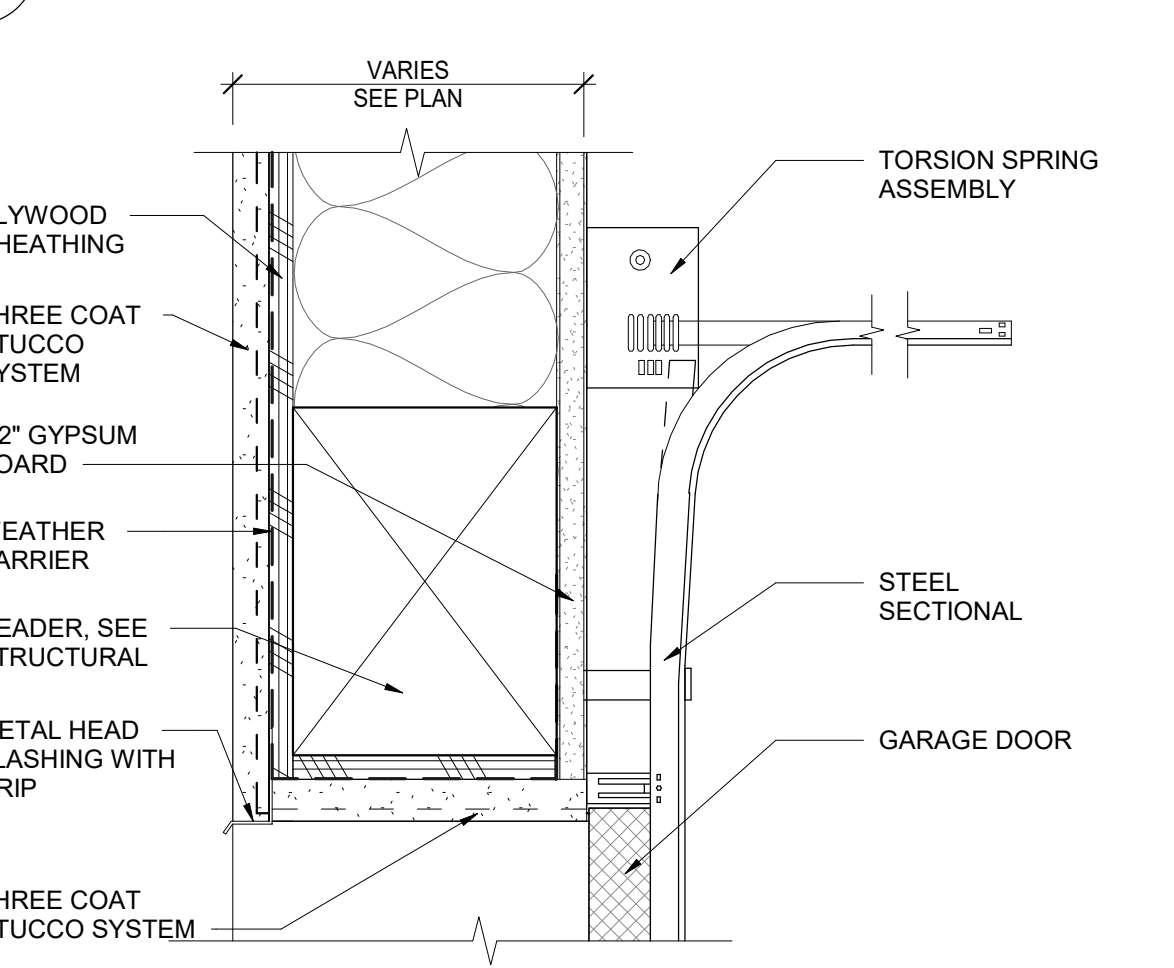
6 UNIT ENTRY 1-HR DOOR HEAD DETAIL  
SCALE: 3" = 1'-0"



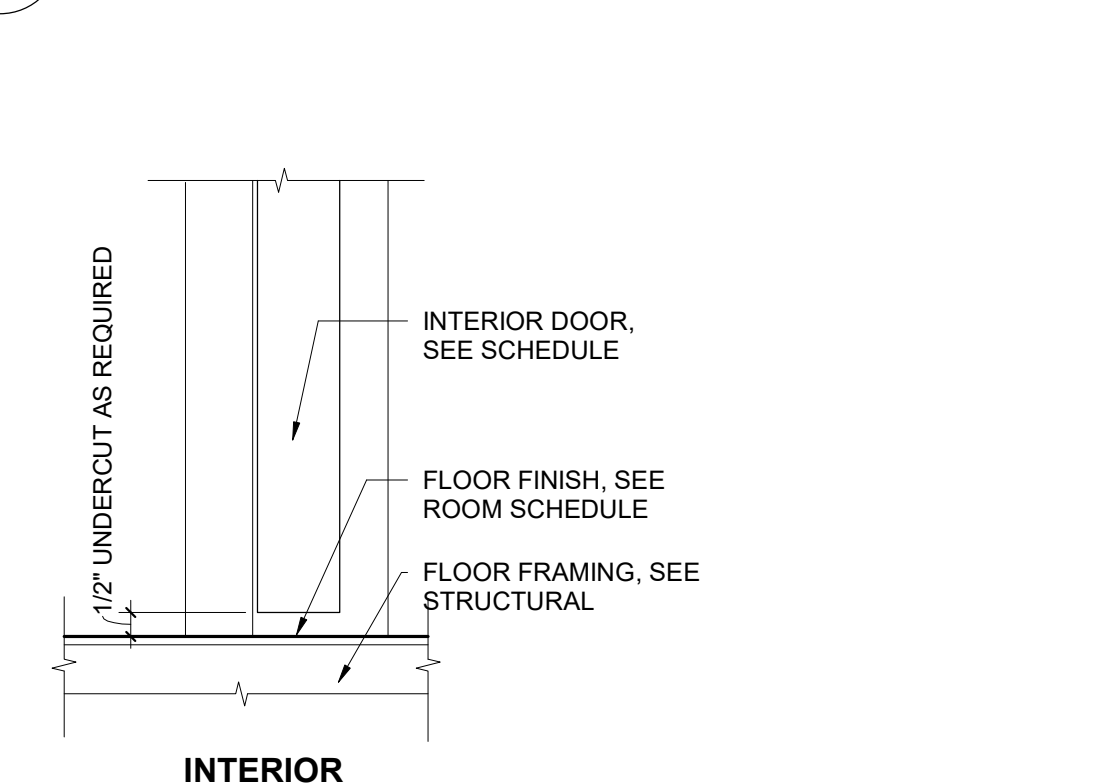
10 EXTERIOR HEAD DETAIL  
SCALE: 3" = 1'-0"



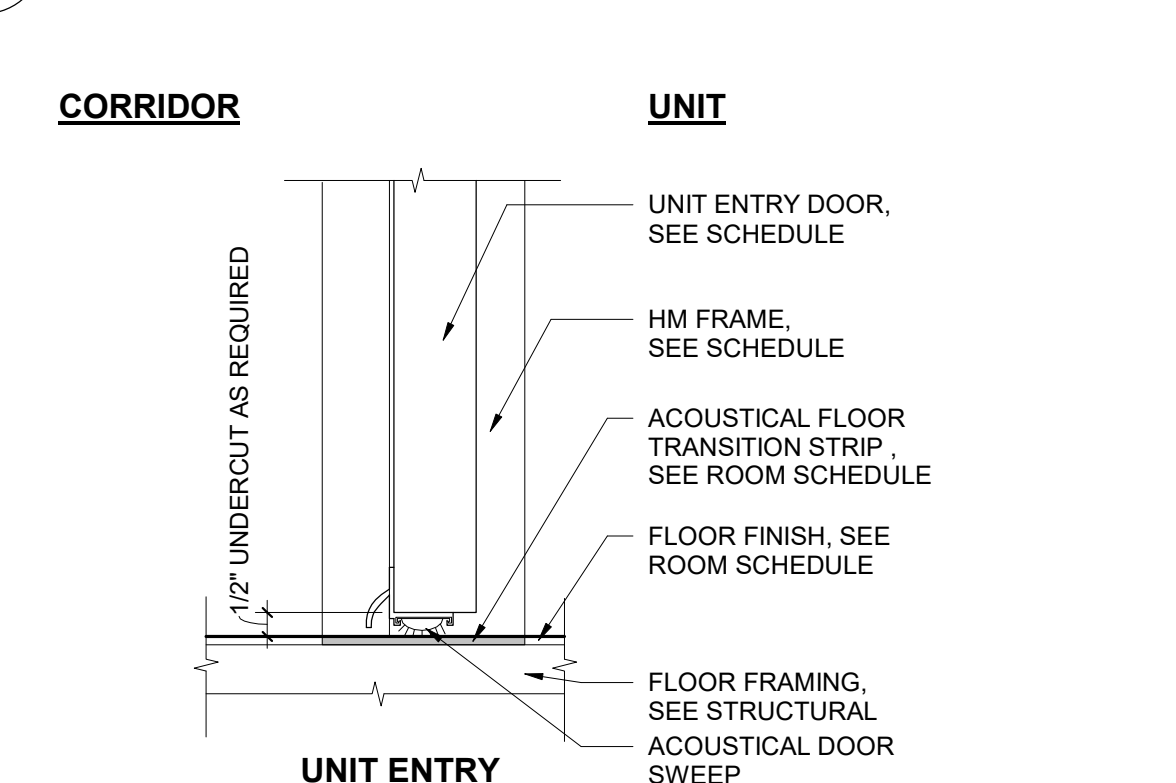
14 SLIDING DOOR HEAD/JAMB  
SCALE: 3" = 1'-0"



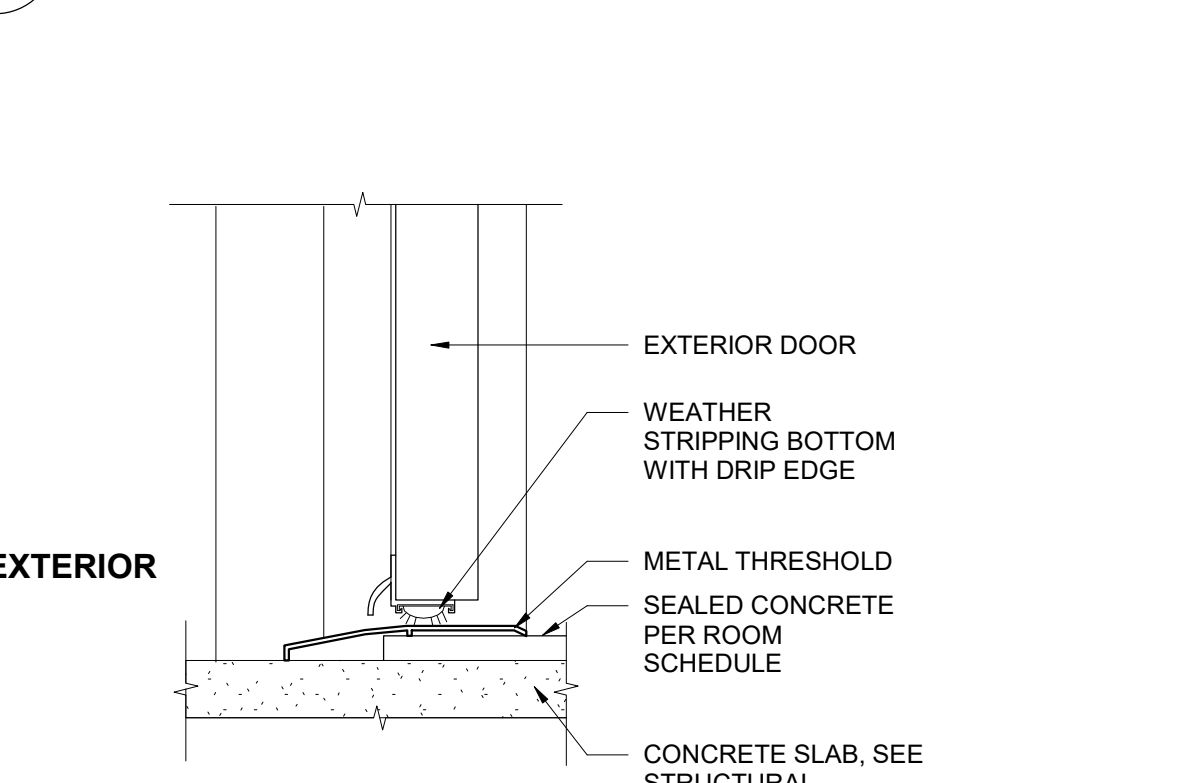
18 EXT HEAD AT GARAGE DOOR  
SCALE: 3" = 1'-0"



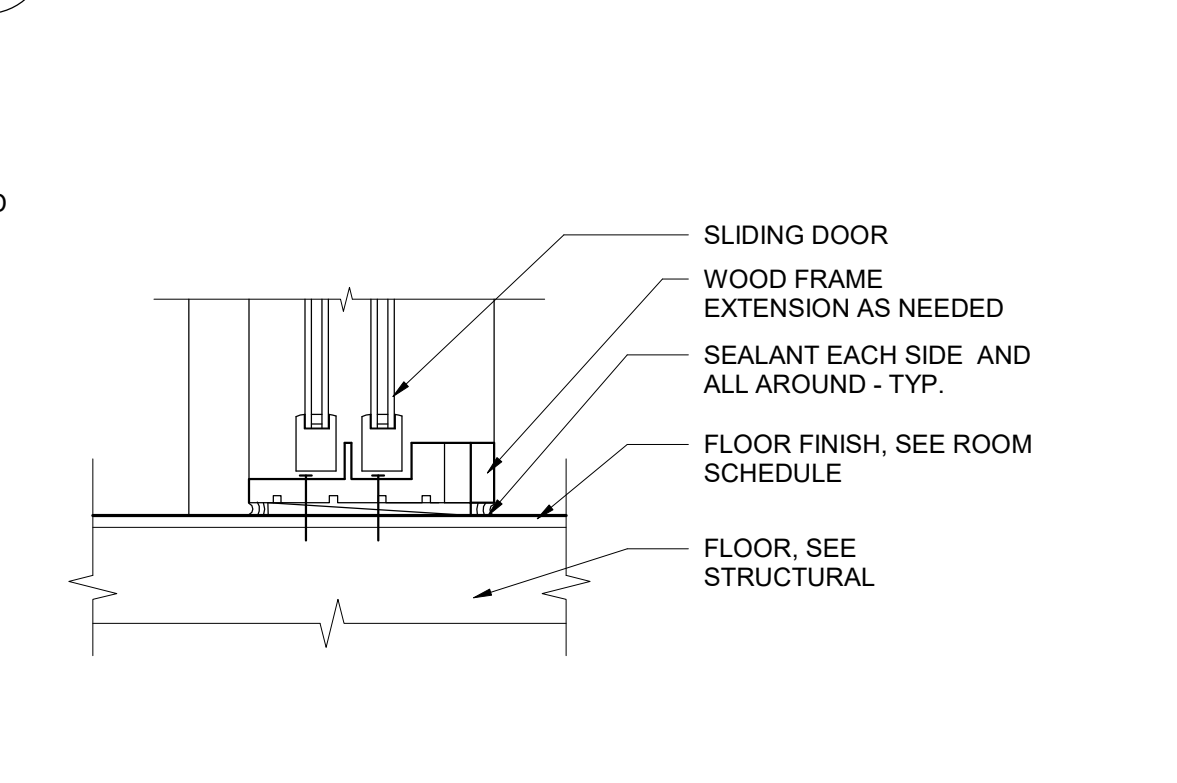
1 TYPICAL DOOR THRESHOLD/SILL DETAIL  
SCALE: 3" = 1'-0"



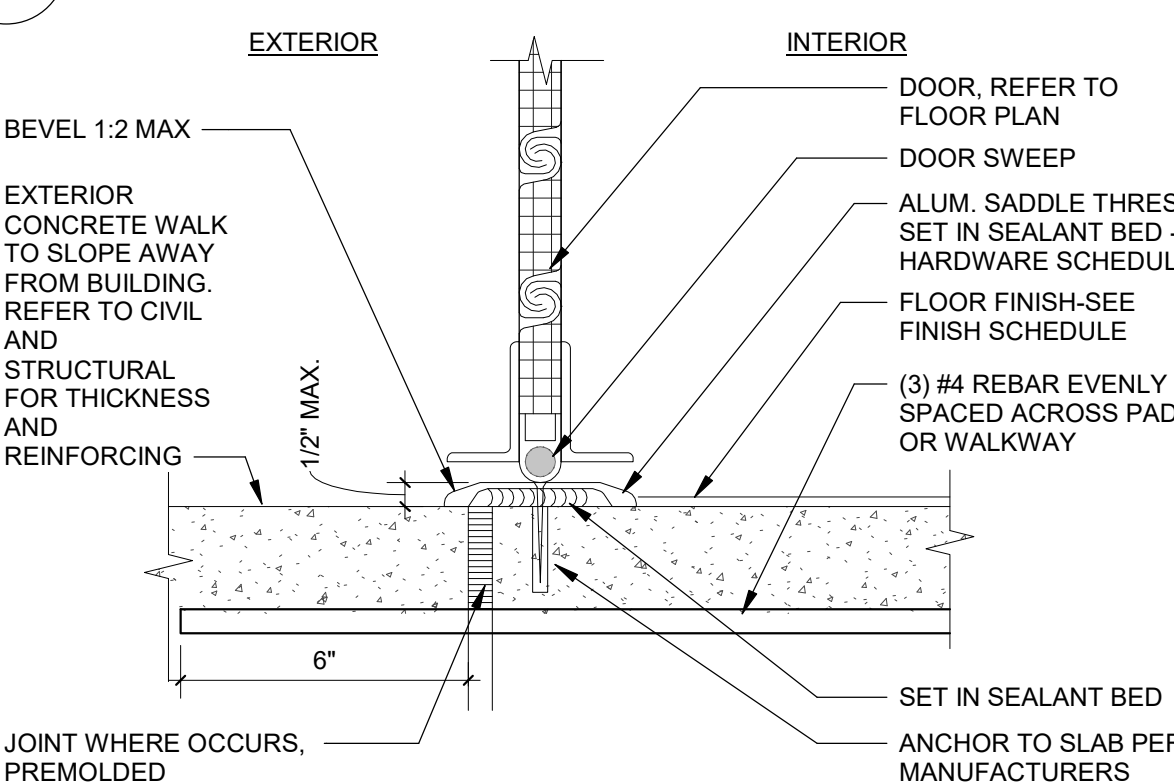
5 TYPICAL UNIT ENTRY DOOR SILL  
SCALE: 3" = 1'-0"



9 EXTERIOR DOOR THRESHOLD  
SCALE: 3" = 1'-0"



13 SLIDING DOOR SILL  
SCALE: 3" = 1'-0"



17 OVERHEAD COIL DOOR THRESHOLD  
SCALE: 3" = 1'-0"

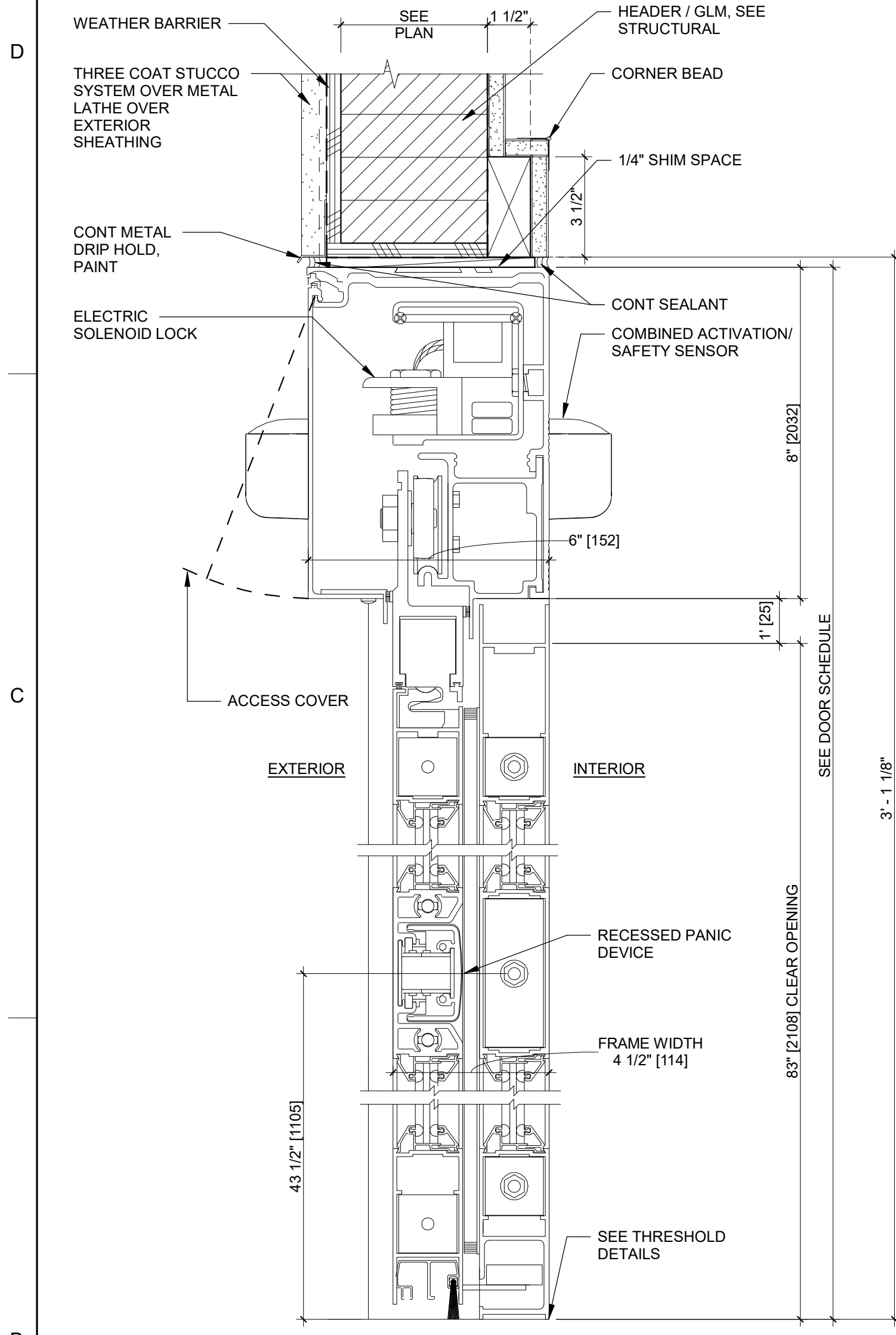
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2

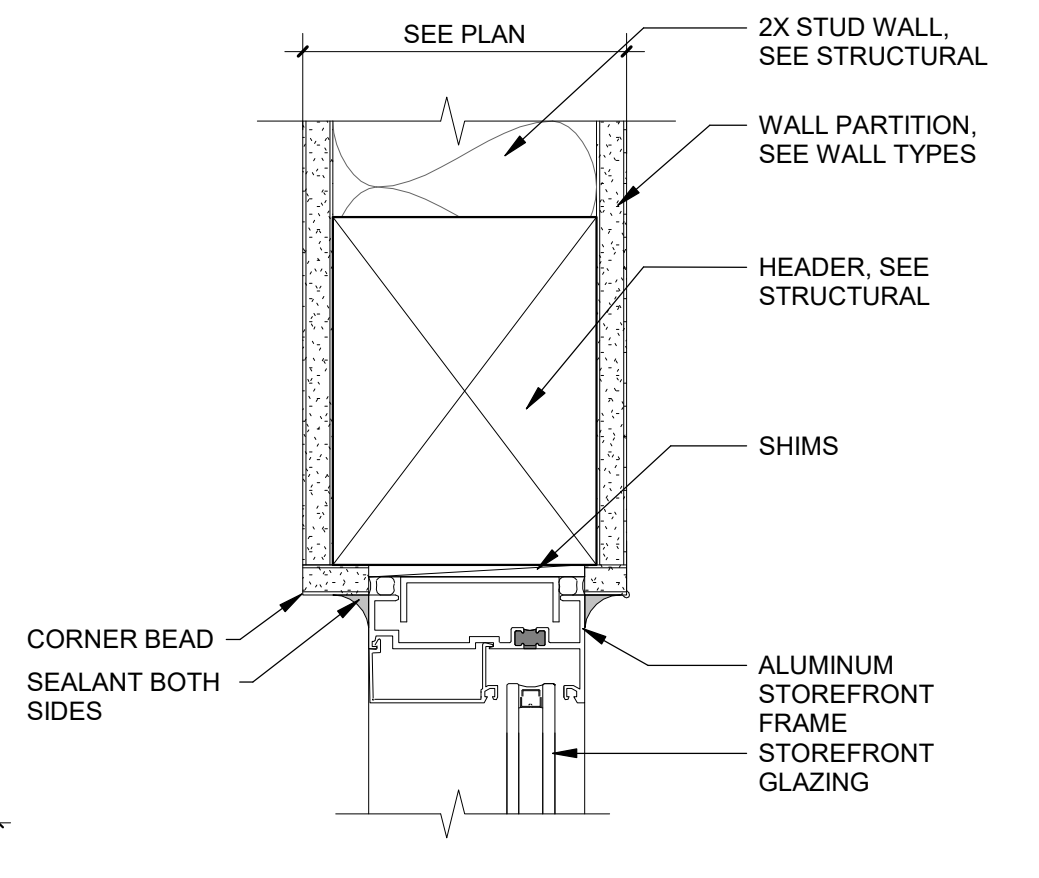
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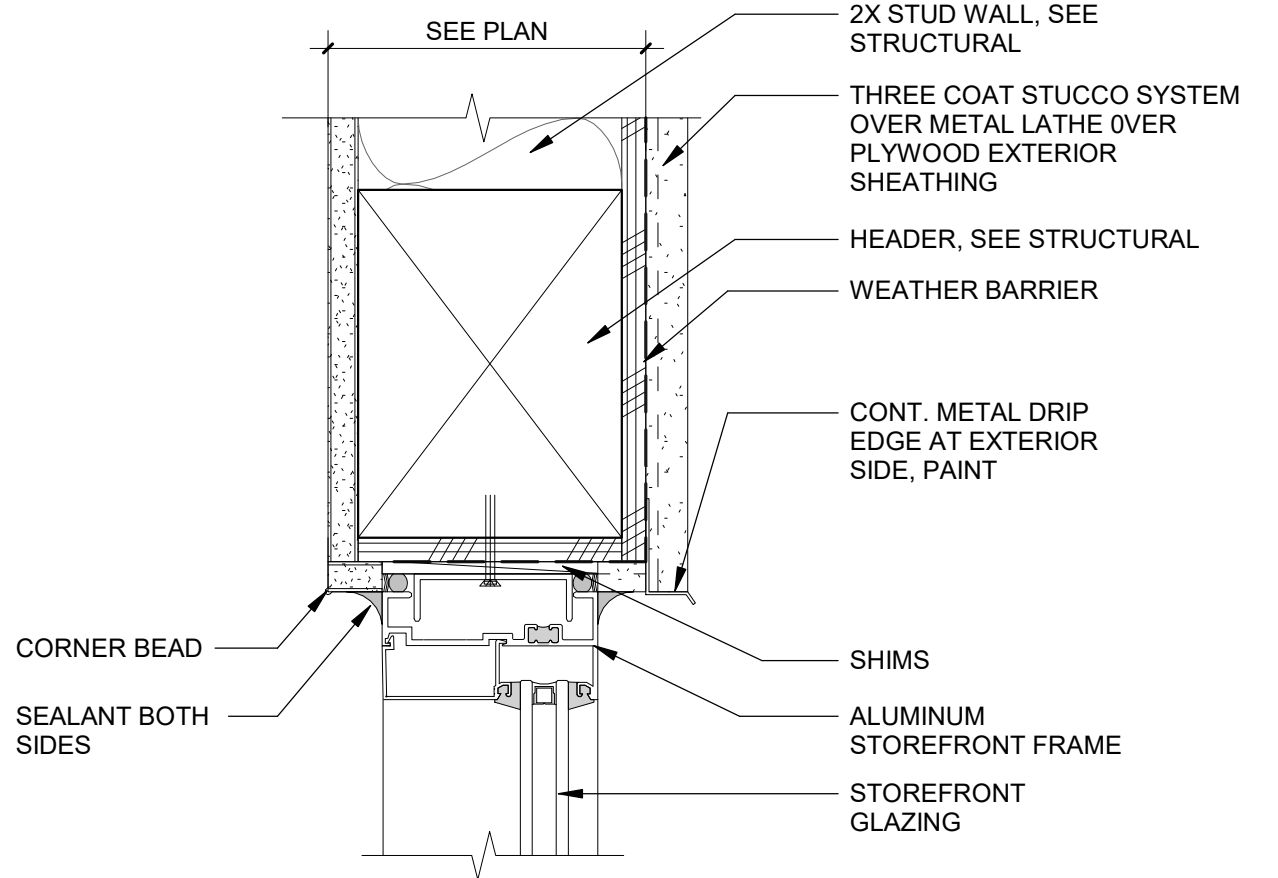
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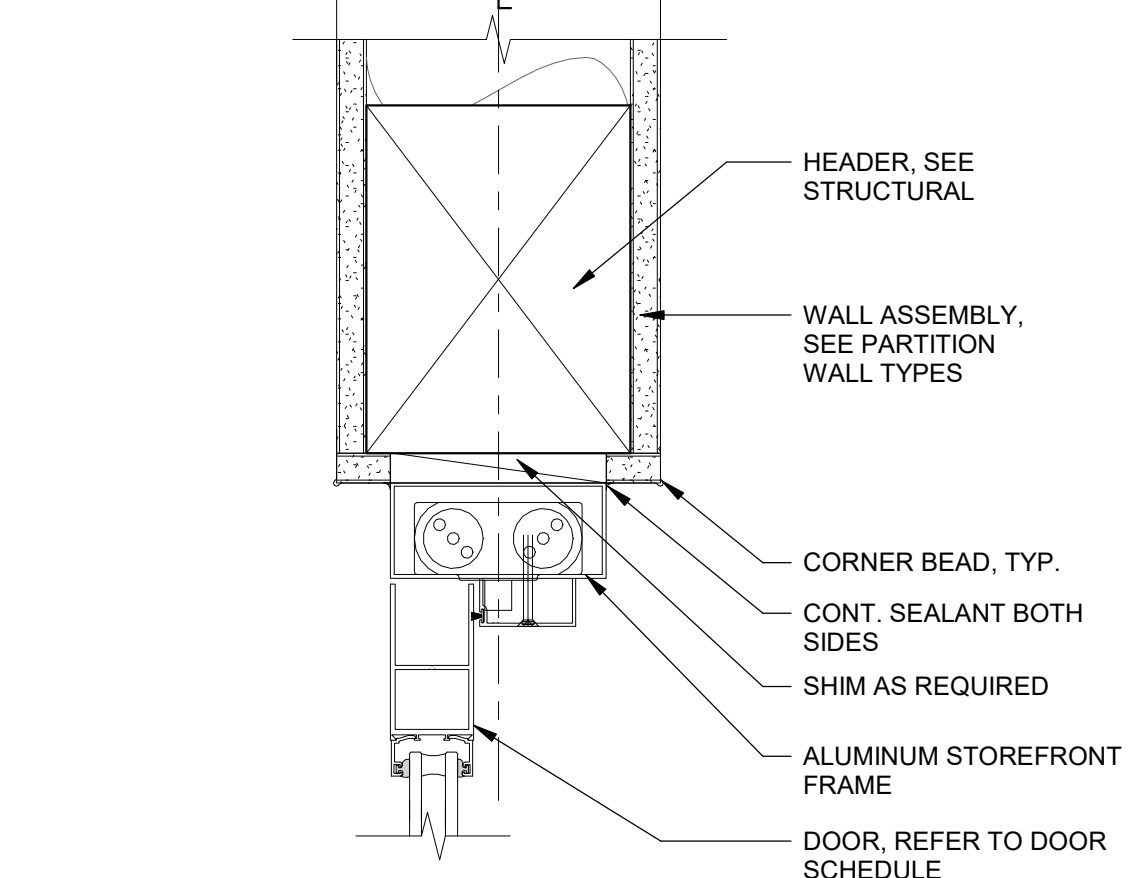
**NOTES**  
 1. ELECTRICAL REQUIREMENTS: BY ELECTRICAL CONTRACTOR  
 120 VAC, 5 AMP MIN TO POWER OPERATOR  
 CONTROL CIRCUIT FROM SECURE ACTIVATION TO OPERATOR  
 2. ROUGH OPENING SHALL PROVIDE 1/4" SHIM SPACE ON SIDES AND TOP OF PACKAGE.  
 3. LIMITS OF ACTIVATION AND SAFETY ZONES ARE FOR REFERENCE ONLY; SEE ANSIBHMA A156.10 FOR DETAILED REQUIREMENTS  
 4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



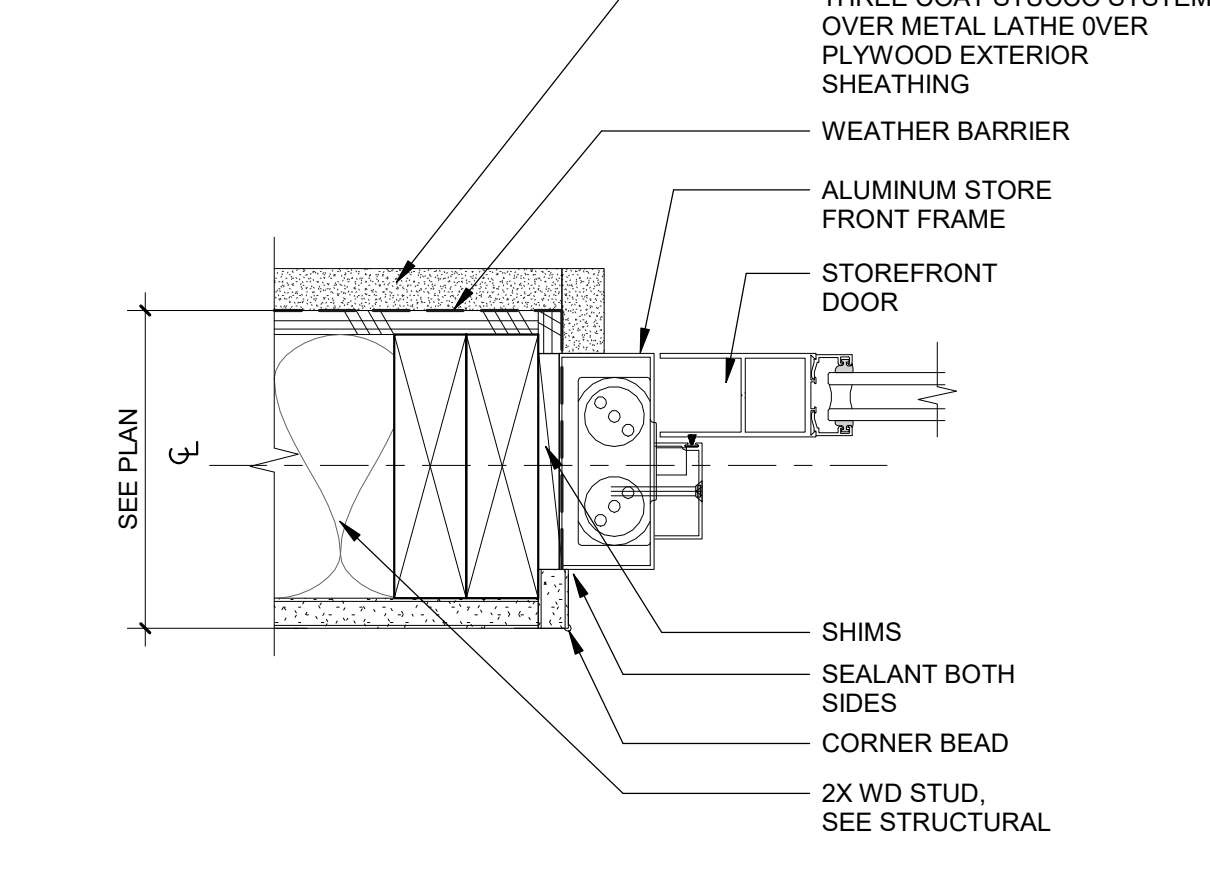
16 INT WIN HEAD-STOREFRONT  
SCALE: 3" = 1'-0"



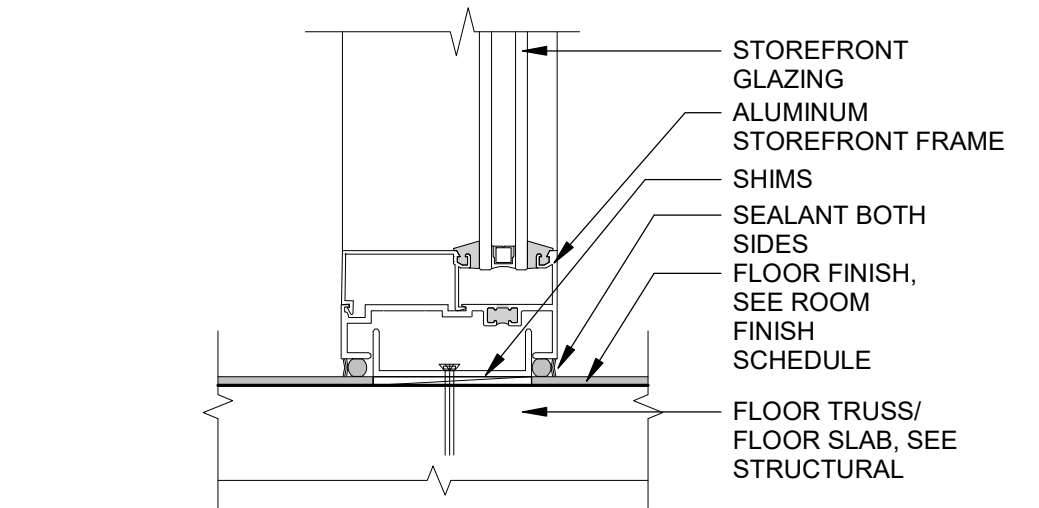
12 EXT HEAD-STOREFRONT  
SCALE: 3" = 1'-0"



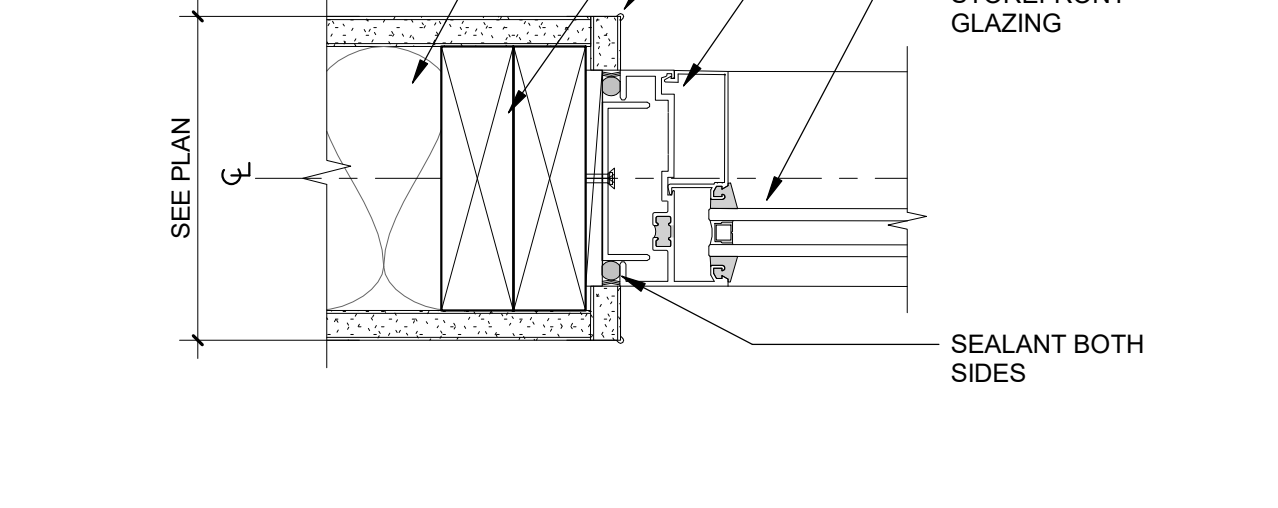
8 INT DOOR HEAD-STOREFRONT  
SCALE: 3" = 1'-0"



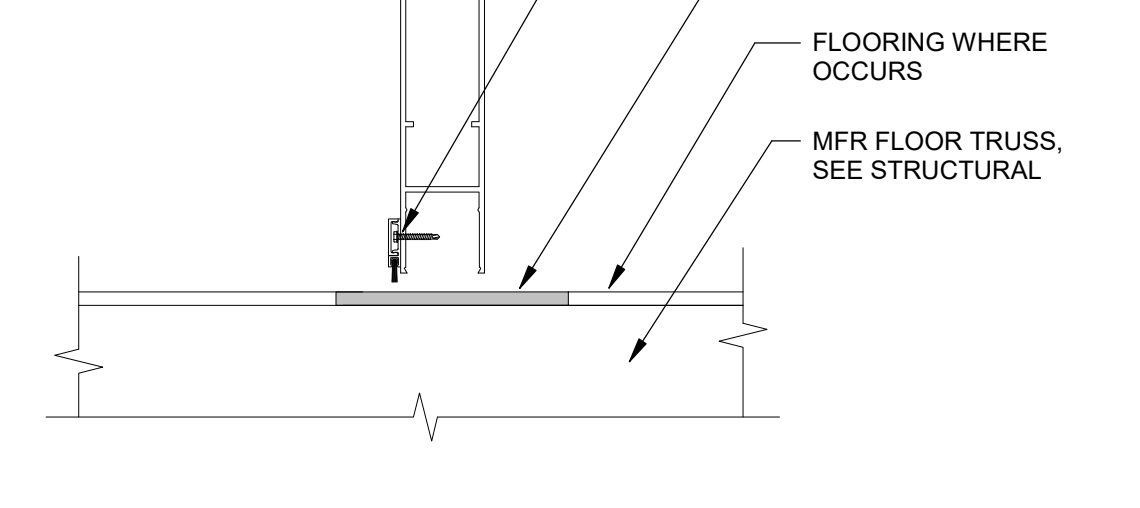
4 EXT DOOR JAMB-STOREFRONT  
SCALE: 3" = 1'-0"



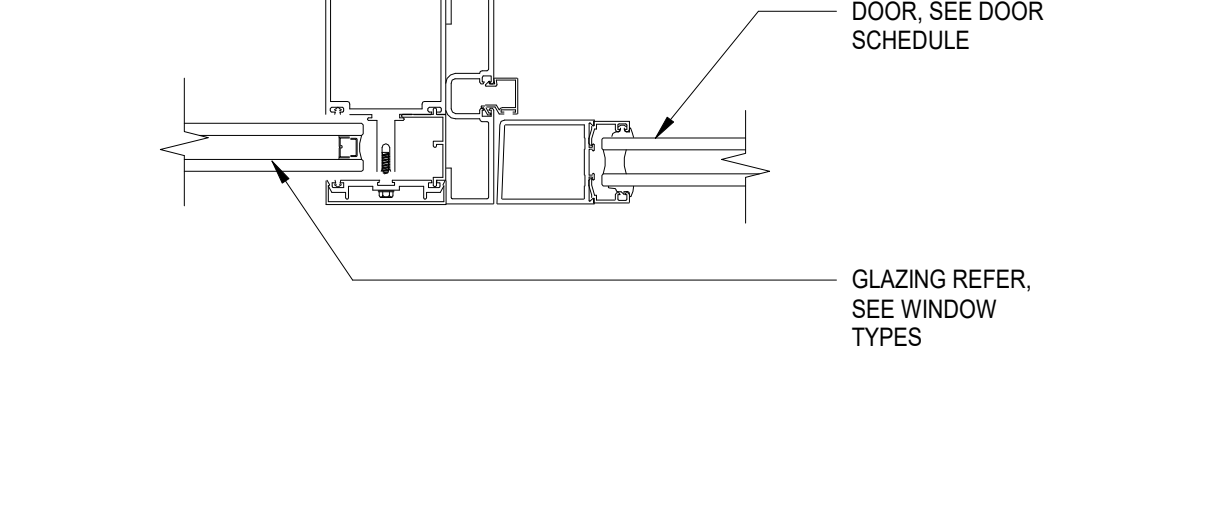
15 INT WIN SILL-STOREFRONT  
SCALE: 3" = 1'-0"



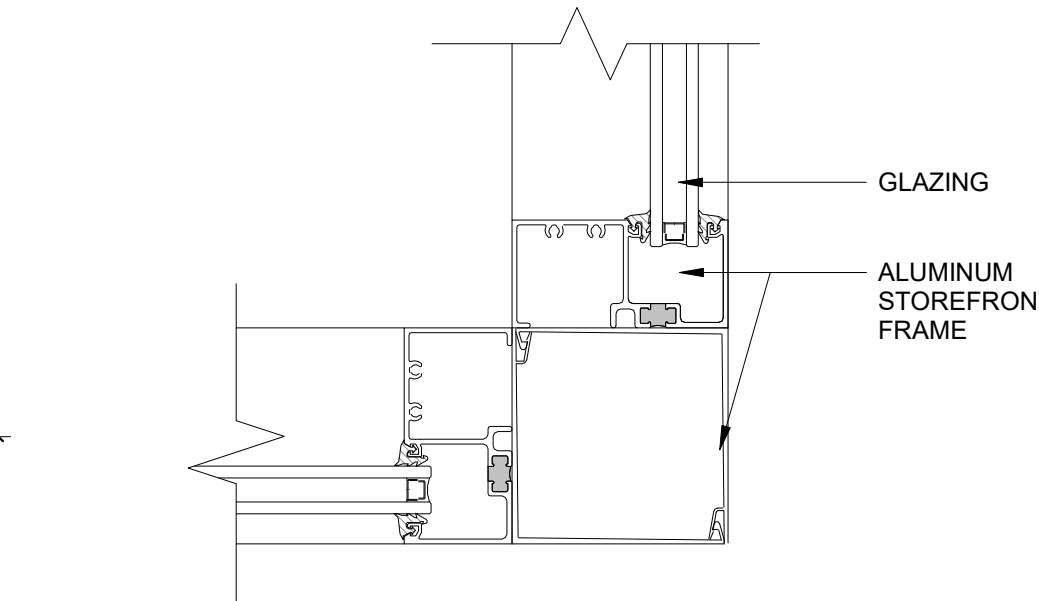
11 INT. STOREFRONT JAMB  
SCALE: 3" = 1'-0"



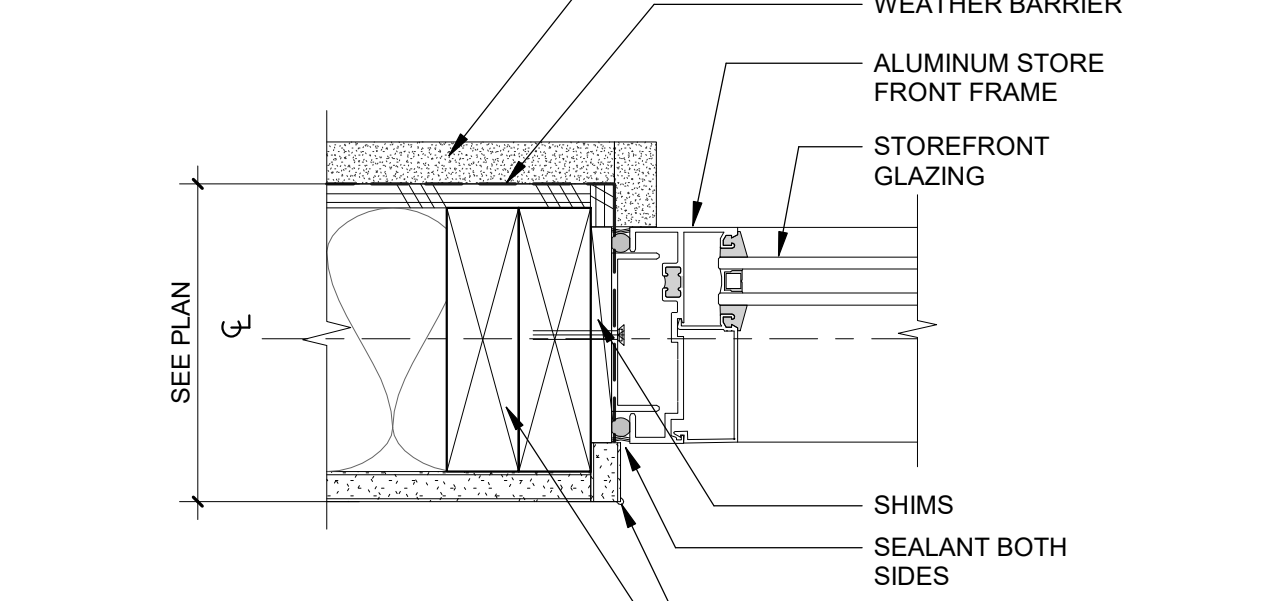
7 INTERIOR DOOR THRESHOLD-STOREFRONT  
SCALE: 3" = 1'-0"



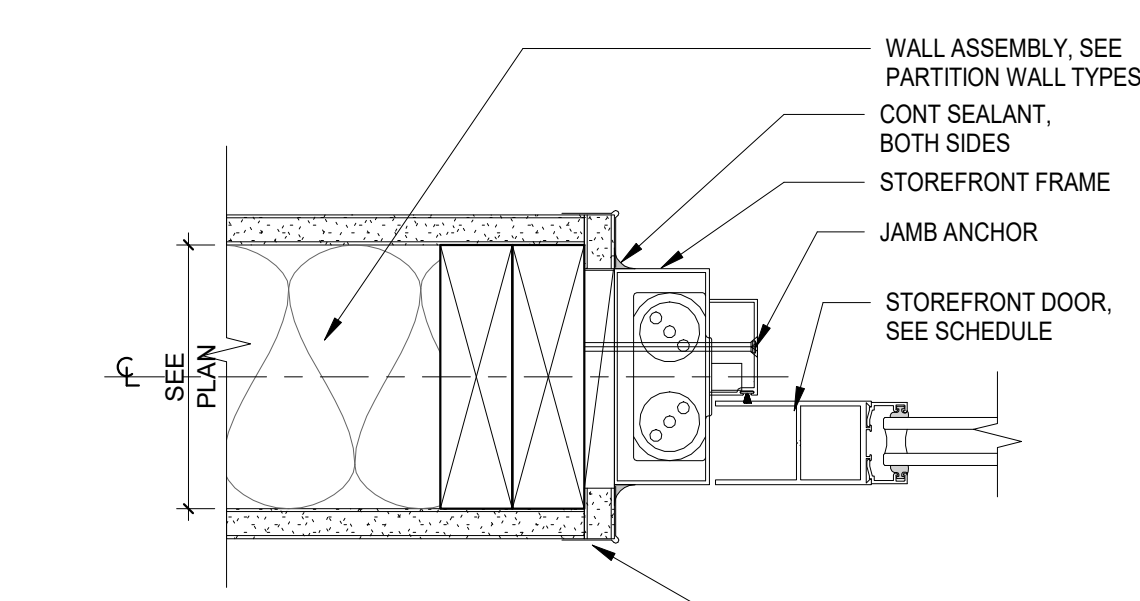
3 DOOR JAMB AT SIDELITE  
SCALE: 3" = 1'-0"



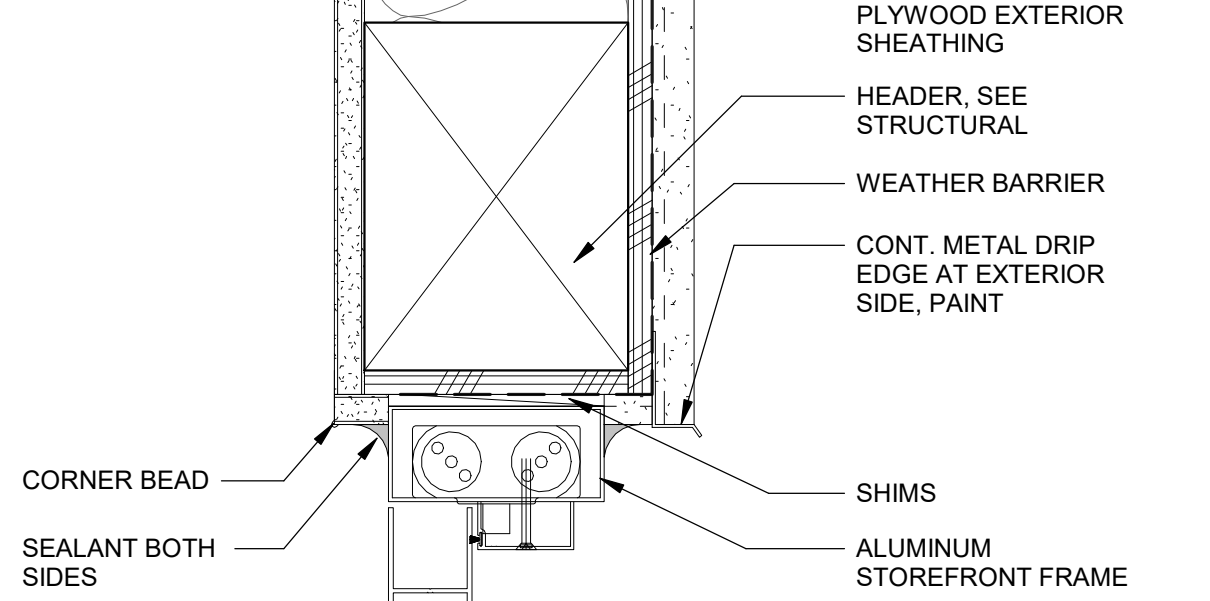
14 INT. STOREFRONT JAMB  
SCALE: 3" = 1'-0"



10 EXT WIN JAMB-STOREFRONT  
SCALE: 3" = 1'-0"

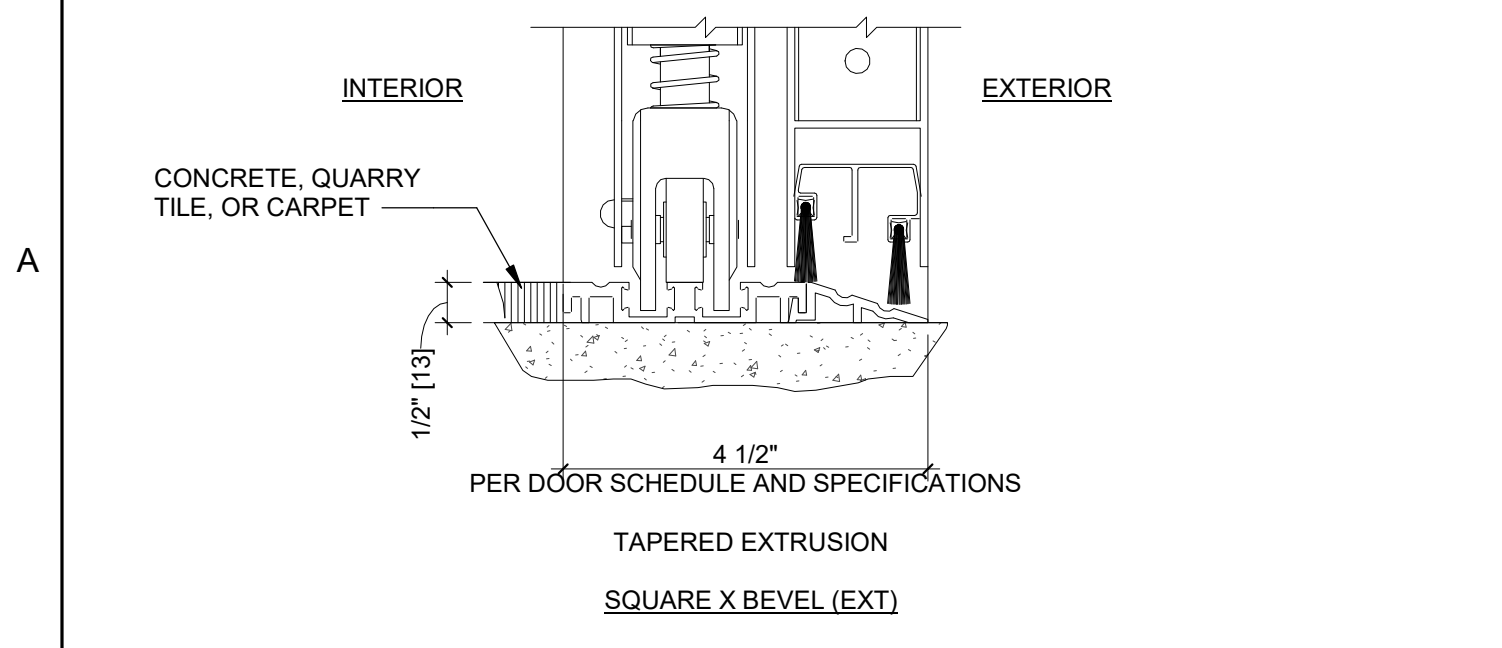


6 INT DOOR JAMB-STOREFRONT  
SCALE: 3" = 1'-0"

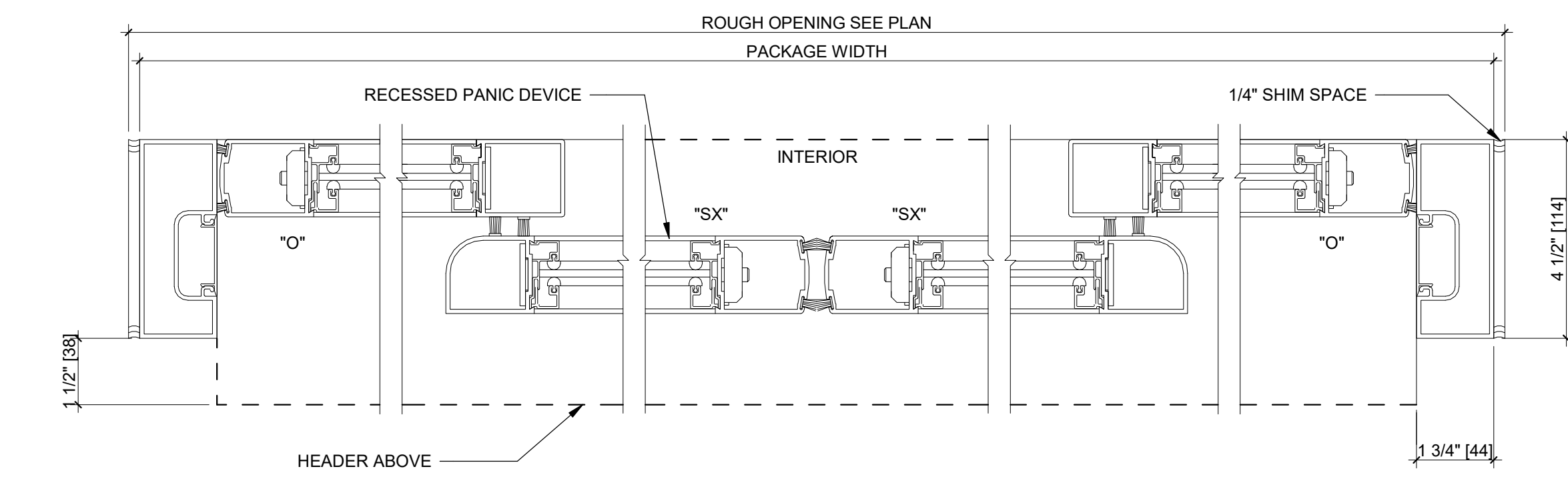


2 EXT DOOR HEAD-STOREFRONT  
SCALE: 3" = 1'-0"

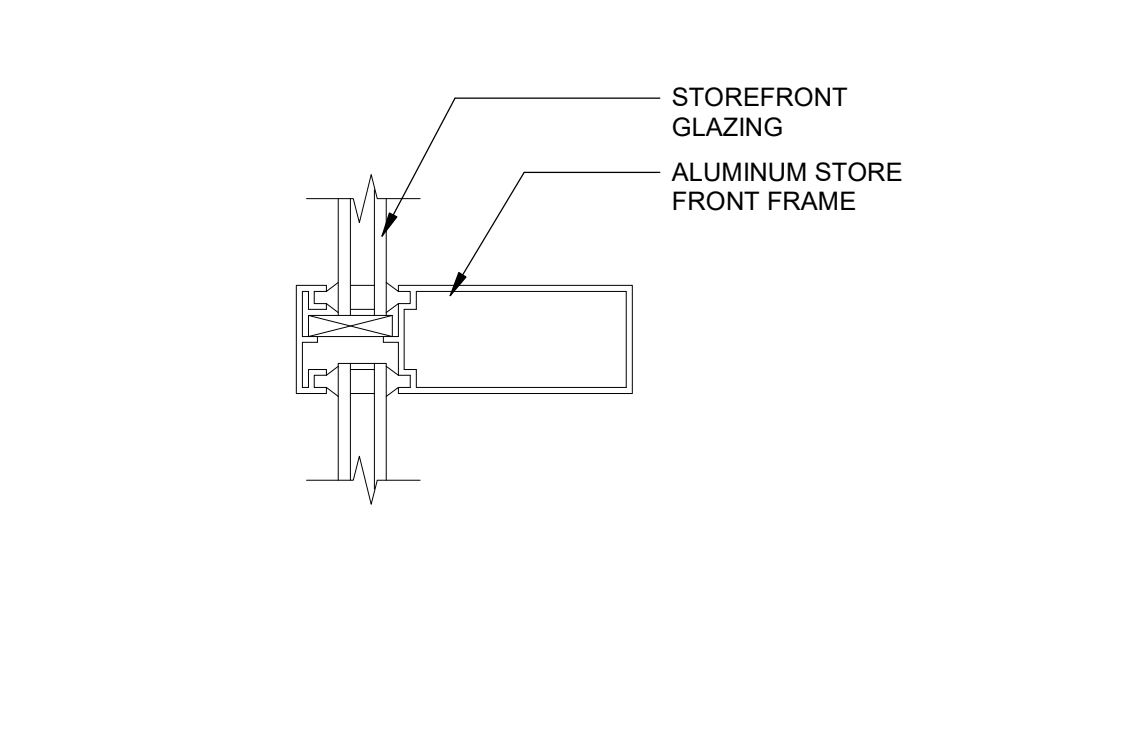
18 AUTOMATIC SLIDING DOOR HEAD DETAIL  
SCALE: 3" = 1'-0"



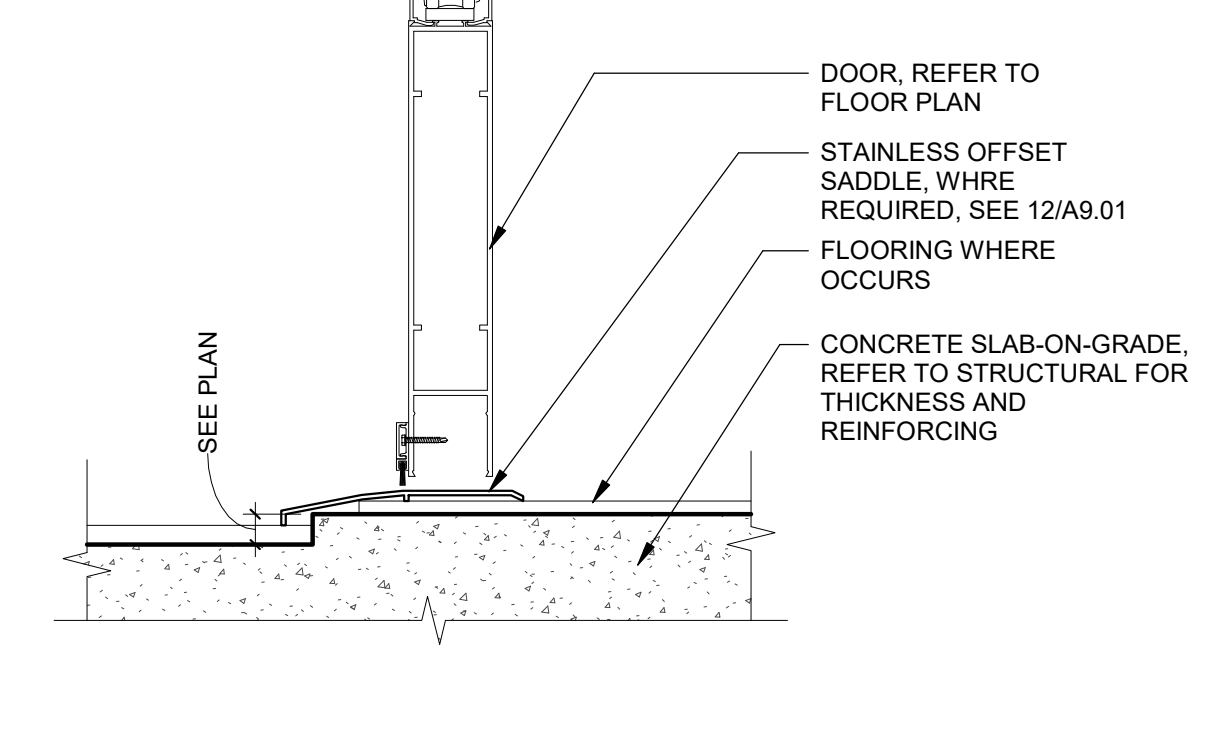
17 AUTOMATIC SLIDING EXTERIOR DOOR THRESHOLD  
SCALE: 3" = 1'-0"



13 AUTOMATIC SLIDING DOOR JAMB DETAIL  
SCALE: 3" = 1'-0"



5 VERT / HOR MULLION-STOREFRONT  
SCALE: 3" = 1'-0"



1 EXTERIOR DOOR THRESHOLD-STOREFRONT  
SCALE: 3" = 1'-0"

**KME ARCHITECTS**  
 5195 S. Durango Drive  
 Suite #103  
 Las Vegas, NV 89113  
 Office: 702.888.2088  
 Fax: 702.888.2089  
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**PROJECT:**  
 SNRHA BENNETT PLAZA PHASE II  
 1818 Balzar Ave., Las Vegas, NV 89106

**SHEET TITLE:**  
 STOREFRONT DETAILS

**REVISIONS**

No.	Description	Date

**DRAWN BY:** KME  
**DATE:**  
**JOB NO:** 2023-014  
**SCALE:** AS INDICATED  
DO NOT SCALE DRAWINGS

**SHEET**  
**A9.02**

WINDOW SCHEDULE

MARK	COUNT	WINDOW			FRAME		FIRE RATING (MIN)	STC RATING	COMMENTS
		HEIGHT	WIDTH	SILL HEIGHT	MATERIAL	FINISH			
<b>FIRST FLOOR</b>									
12	1	3'-0"	4'-0"	4'-6"					
13	6	4'-0"	3'-0"	3'-0"					
14	60	5'-0"	5'-0"	<varies>					
22	2	4'-5"	2'-5"	<varies>					
23	2	4'-5"	3'-0"	3'-0"					
<b>SECOND FLOOR</b>									
12	4	3'-0"	4'-0"	<varies>					
13	4	4'-0"	3'-0"	3'-0"					
14	53	5'-0"	5'-0"	<varies>					
15	1	4'-0"	4'-0"	8'-0 7/8"					
18	2	3'-0"	3'-0"	<varies>					
21	3	4'-3"	2'-10"	4'-2"					
22	3	4'-5"	2'-5"	<varies>					
<b>THIRD FLOOR</b>									
12	2	3'-0"	4'-0"	4'-6"					
14	24	5'-0"	5'-0"	3'-0"					
22	1	4'-5"	2'-5"	3'-3 3/4"					
24	3	4'-9"	3'-2"	3'-0"					
29	2	4'-3"	2'-0"	2'-6"					
38	1	3'-6"	2'-5"	3'-10 1/2"					
39	1	4'-11"	5'-0"	2'-6"					
Grand total:	175								

GENERAL NOTES

- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- SUBMIT ENGINEERED SHOP DRAWINGS FROM MANUFACTURER INCLUDING GLASS AND FRAME SAMPLES TO ARCHITECT PRIOR TO FABRICATION.
- ALL FRAME EXTERIOR ELEVATIONS ARE VIEWED FROM EXTERIOR OF BUILDING.
- PROVIDE TEMPERED GLASS PER IBC AND AUTHORITY HAVING JURISDICTION REQUIREMENTS. REFER TO IBC CHAPTER 24.
- ALL DIMENSIONS SHOWN ARE FOR ROUGH (RO) OPENING DIMENSIONS. MODIFY AS REQUIRED BASED ON DETAILS AND SHIM REQUIREMENTS.
- OBTAIN ENTRANCES STOREFRONT AND FINISH FROM ONE (1) SOURCE FROM A SINGLE MANUFACTURER. INSTALL ALL MATERIAL PER MANUFACTURER'S INSTRUCTIONS.
- OBTAIN GLASS FROM ONE (1) SOURCE FROM A SINGLE MANUFACTURER. INSTALL ALL MATERIAL PER MANUFACTURER'S INSTRUCTIONS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL WINDOW SYSTEM AND GLAZING INFORMATION.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL DRAWINGS AND CALCULATIONS REQUIRED BY AHI PRIOR TO FABRICATION. INITIATE THIS REQUIREMENT PRIOR TO CONSTRUCTION TO AVOID DELAY.
- FULL LENGTH BLOCKS SHALL BE USED AT ALL OPENING HEADERS, UNO.
- ALL INTERIOR GLASS THICKNESS ARE MINIMUM THICKNESS. THE FINAL GLASS THICKNESS TO BE DETERMINED BY WINDOW MANUFACTURER / FABRICATOR TO ENSURE STRUCTURAL INTEGRITY AND MINIMIZE DEFLECTION PER SPECIFICATIONS AND GOOD INDUSTRY STANDARDS.
- REFER TO I.E.C.C. REPORT FOR ENERGY EFFICIENCY RATING REQUIREMENTS FOR ALL EXTERIOR GLAZING. U-VALUES AND SHGC VALUES PROVIDED ARE FOR FULL SYSTEM ASSEMBLIES AND SHALL APPLY TO THE COMBINED GLAZING AND FRAMING PRODUCT. CONTRACTOR TO SELECT PRODUCTS TO MEET THESE MINIMUM REQUIREMENTS AND PROVIDE SUBMITTAL FROM MANUFACTURER WITH TESTING REQUIREMENTS CONFIRMING THE FULL PRODUCT ASSEMBLY VALUES REQUIRED. WINDOWS ≤U-VALUE 0.30, SHGC 0.25.
- ALL OPERABLE IN CORRIDORS / COMMON ROOMS TO HAVE A STOP INSTALLED TO ALLOW OPENING OF 4" MAX. TYPICAL.

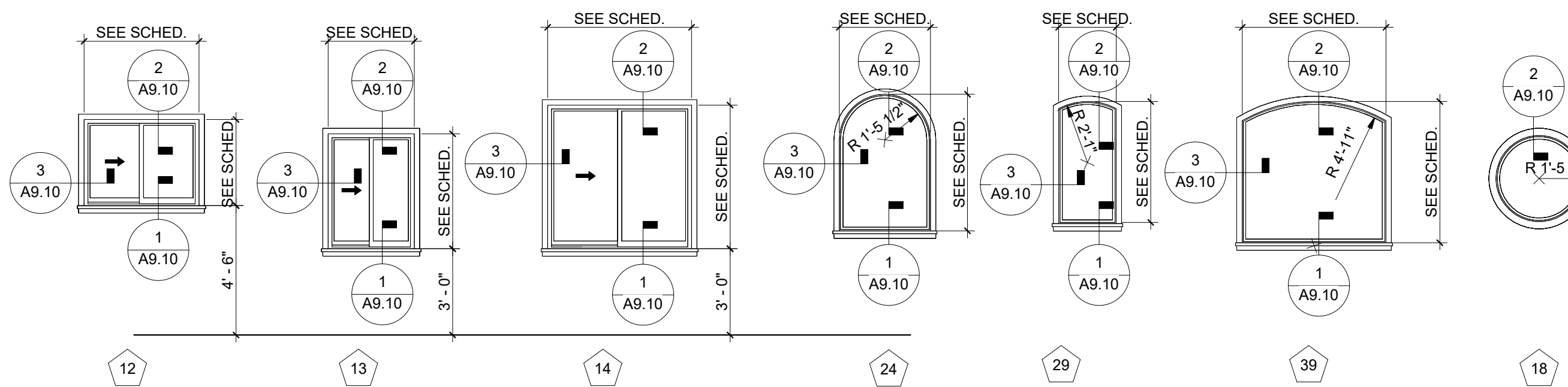
**KME ARCHITECTS**

5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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STATE OF NEVADA  
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07.15.24

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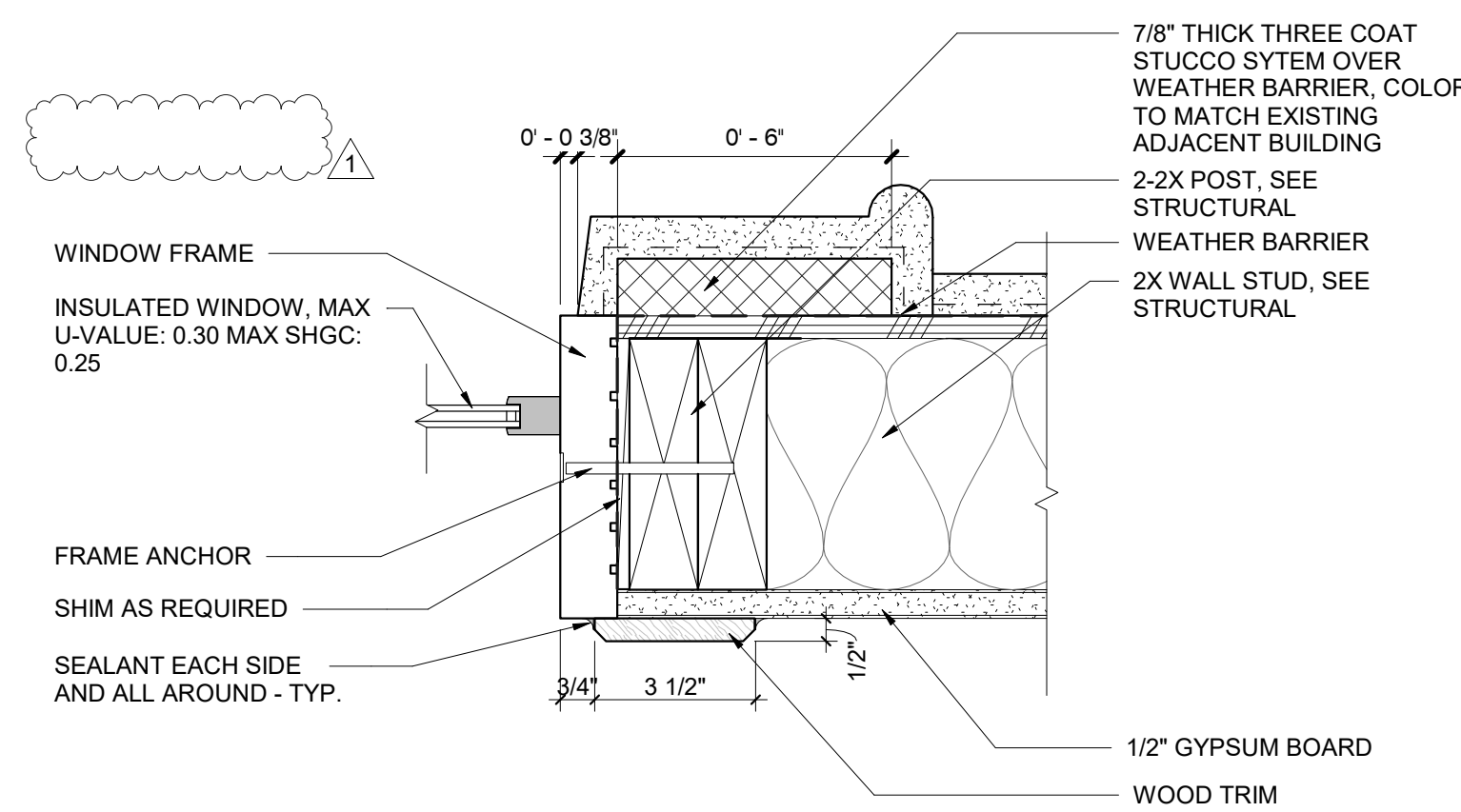
GLAZING TYPE LEGEND

- G1 VISION GLASS UNIT
- G2 TEMPERED VISION GLASS UNIT

FRAME TYPE LEGEND

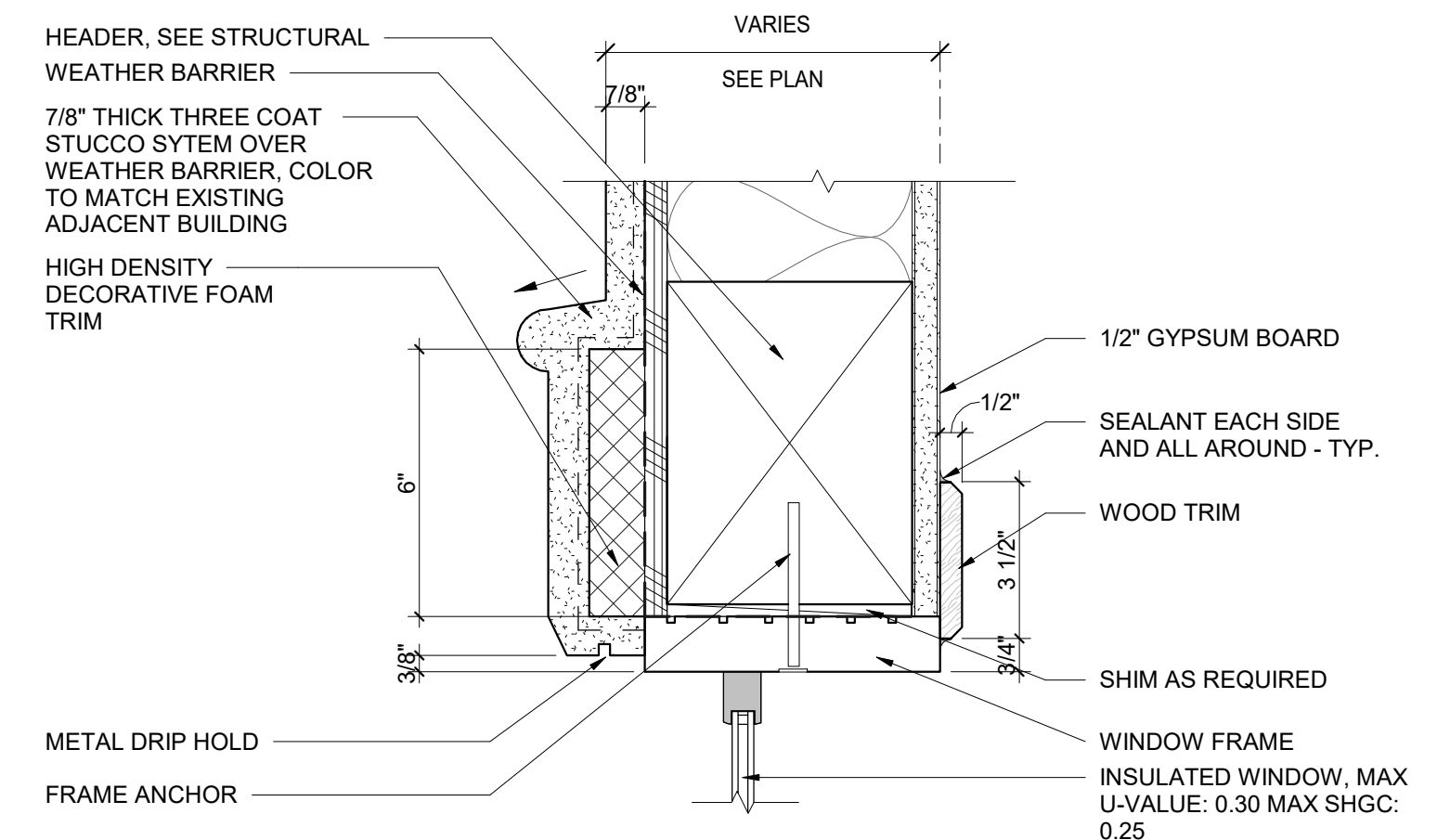
- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00

WINDOW TYPES



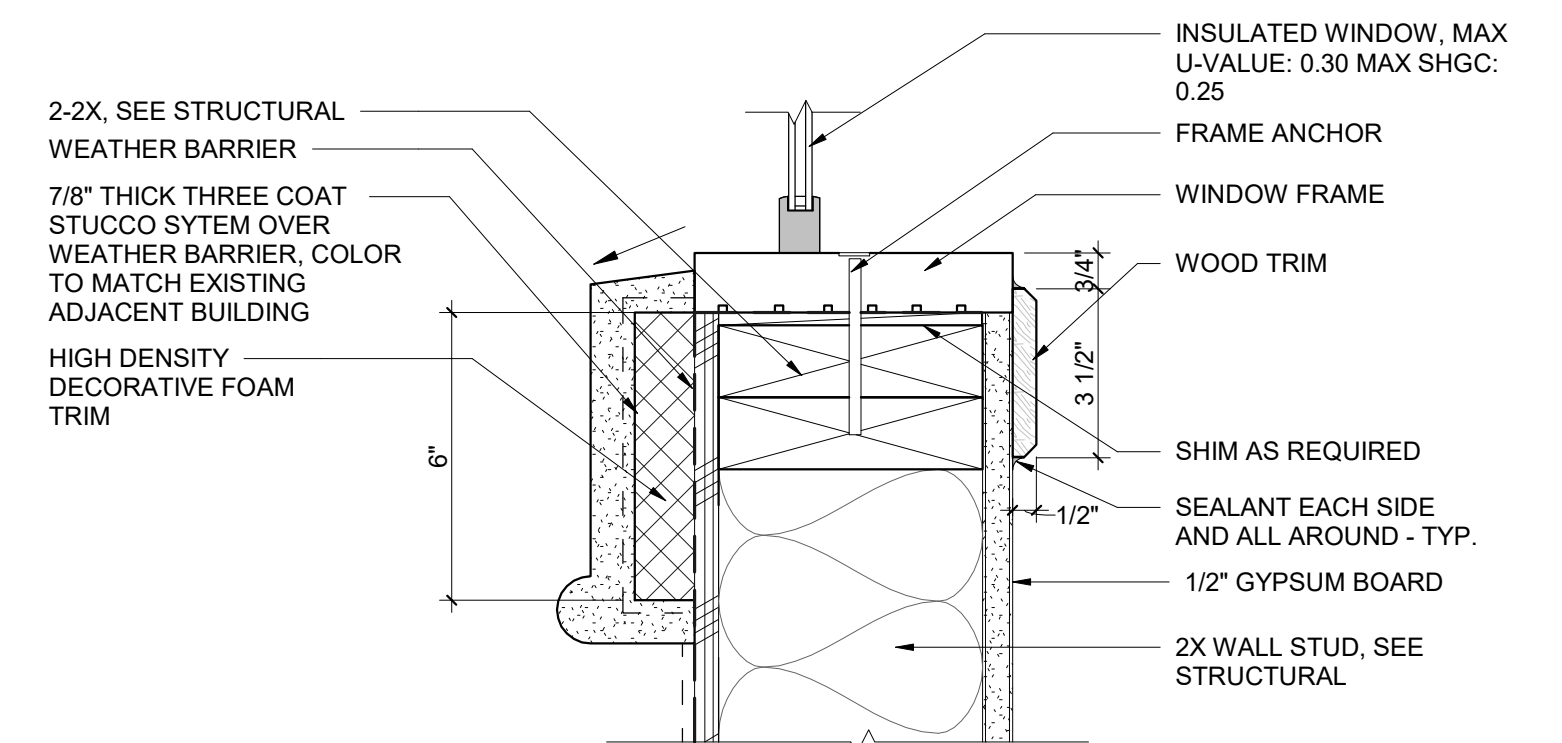
3 TYPICAL EXTERIOR WINDOW JAMB

SCALE: 3" = 1'-0"



2 TYPICAL EXTERIOR WINDOW HEAD

SCALE: 3" = 1'-0"



1 TYPICAL EXTERIOR WINDOW SILL

SCALE: 3" = 1'-0"

PROJECT: SNRHA BENNETT PLAZA PHASE II  
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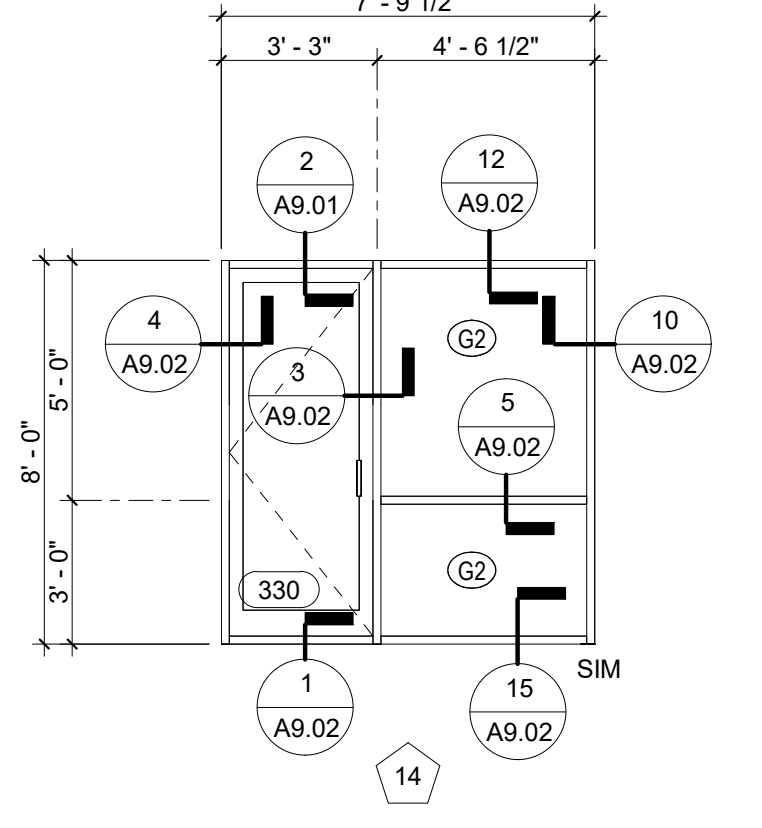
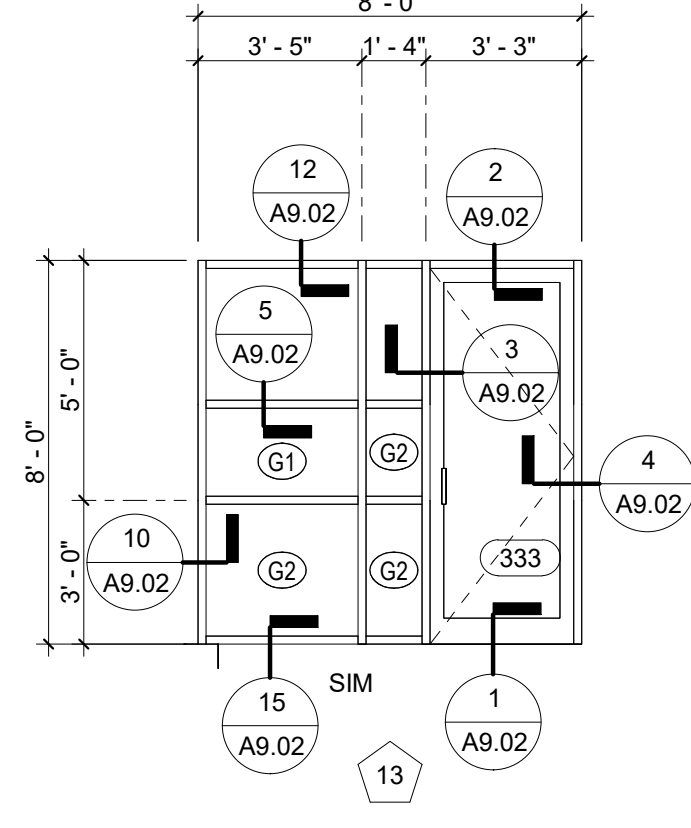
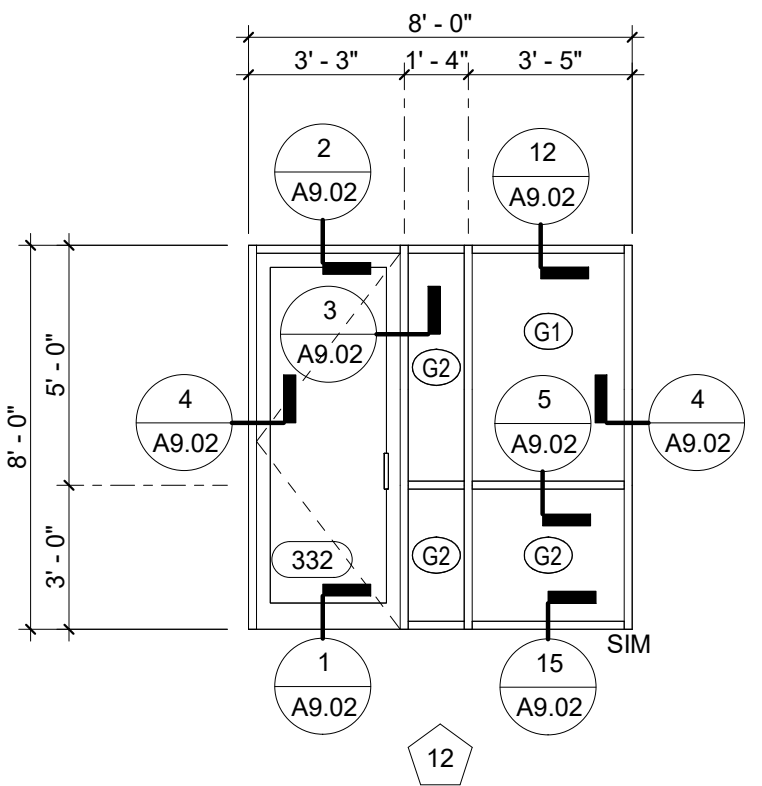
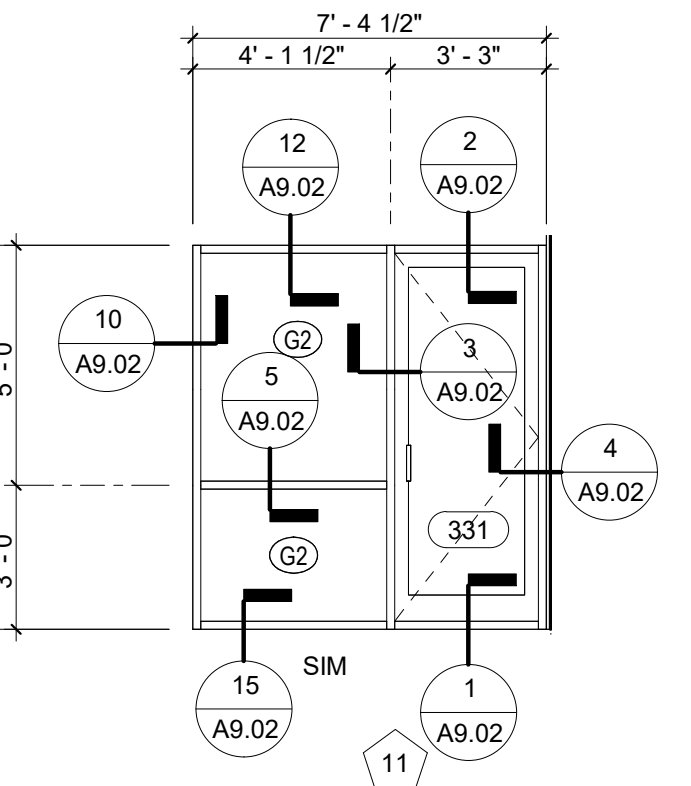
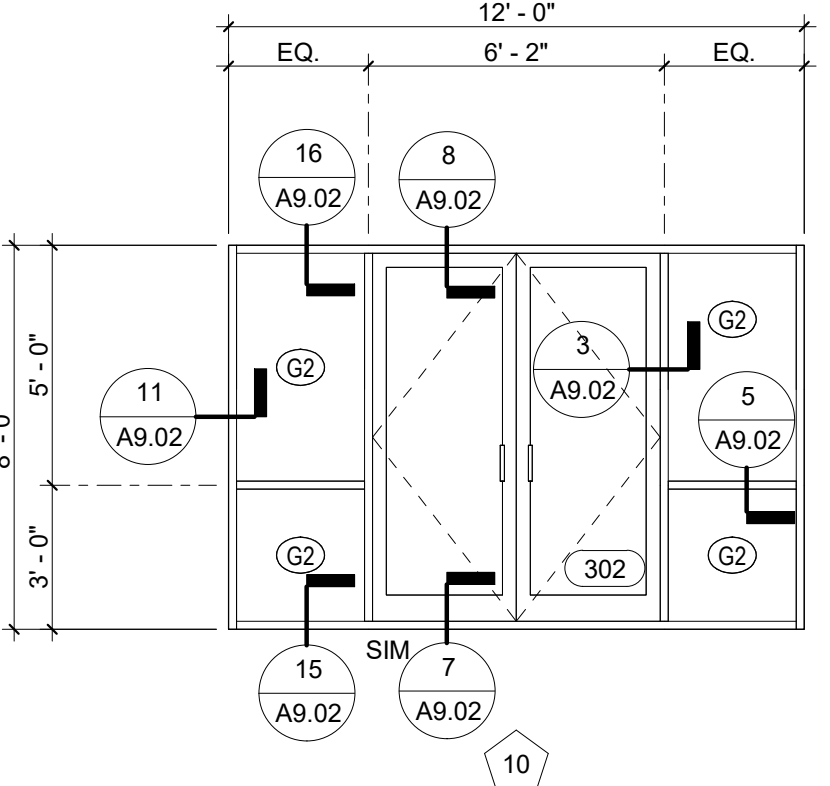
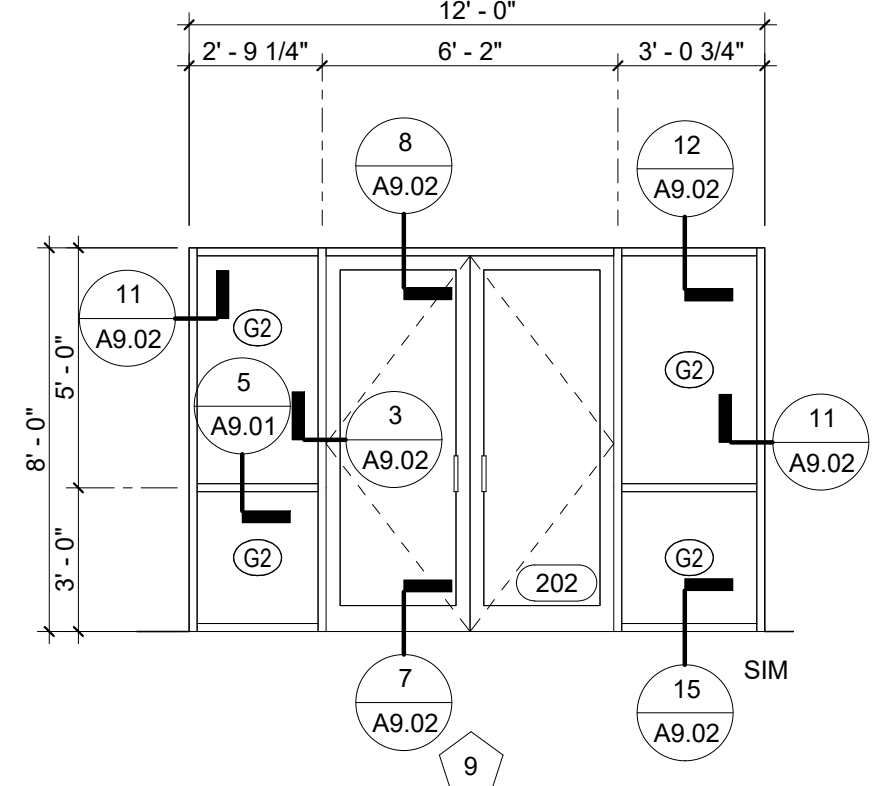
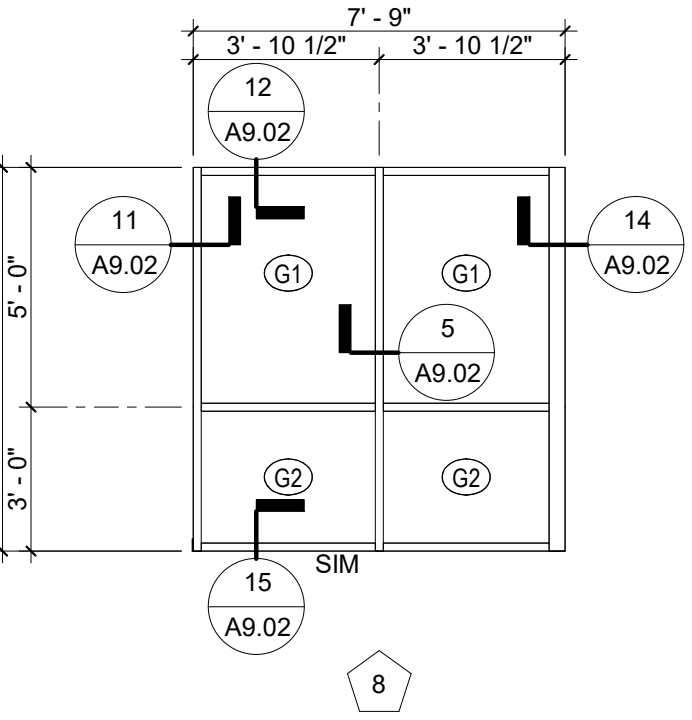
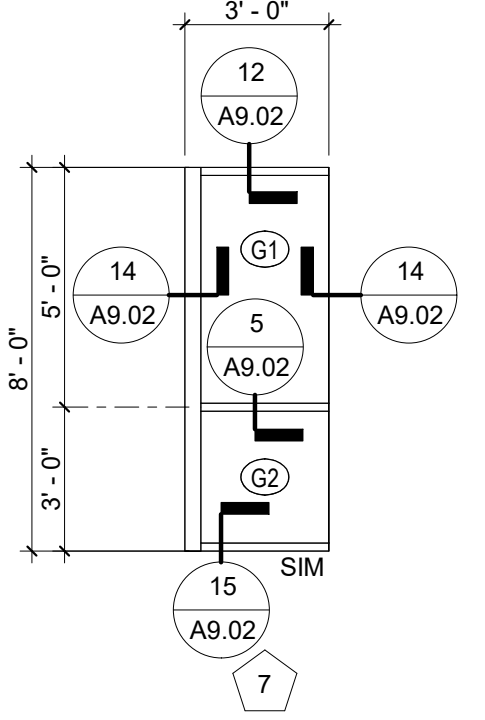
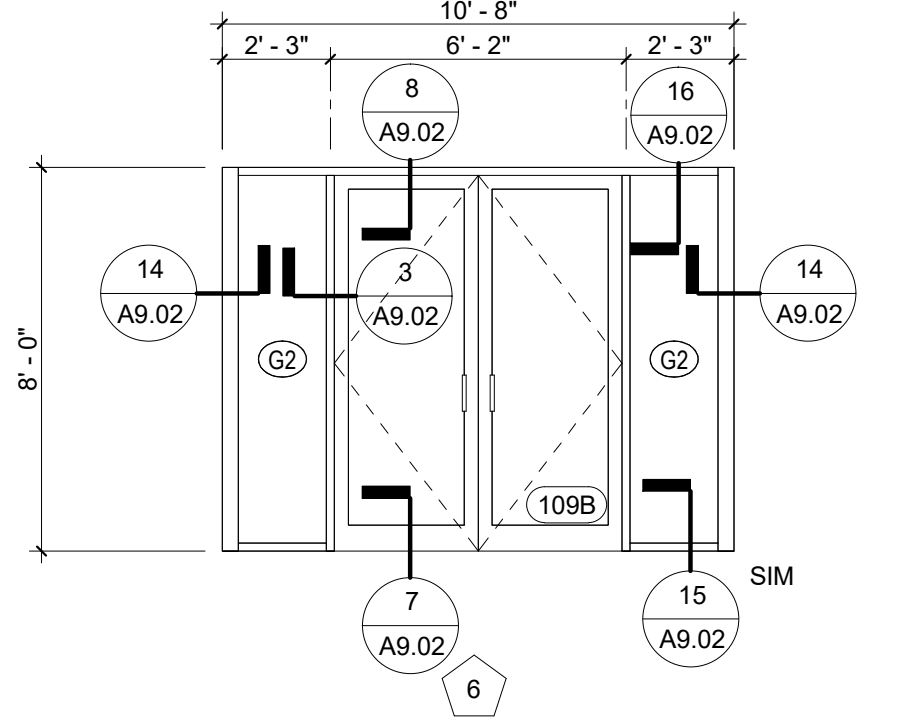
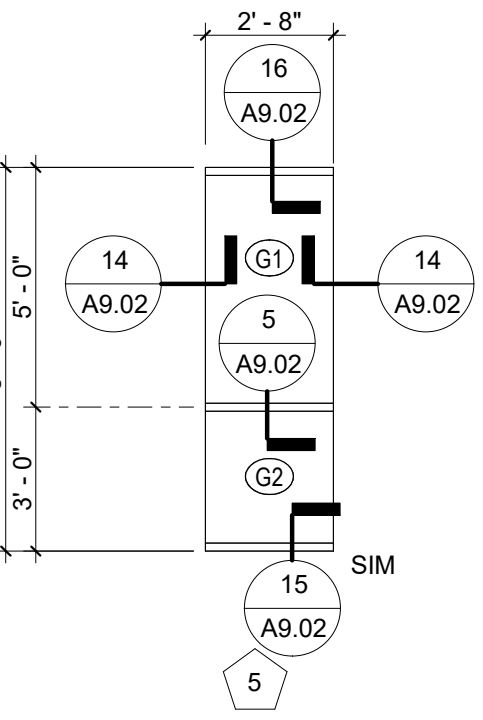
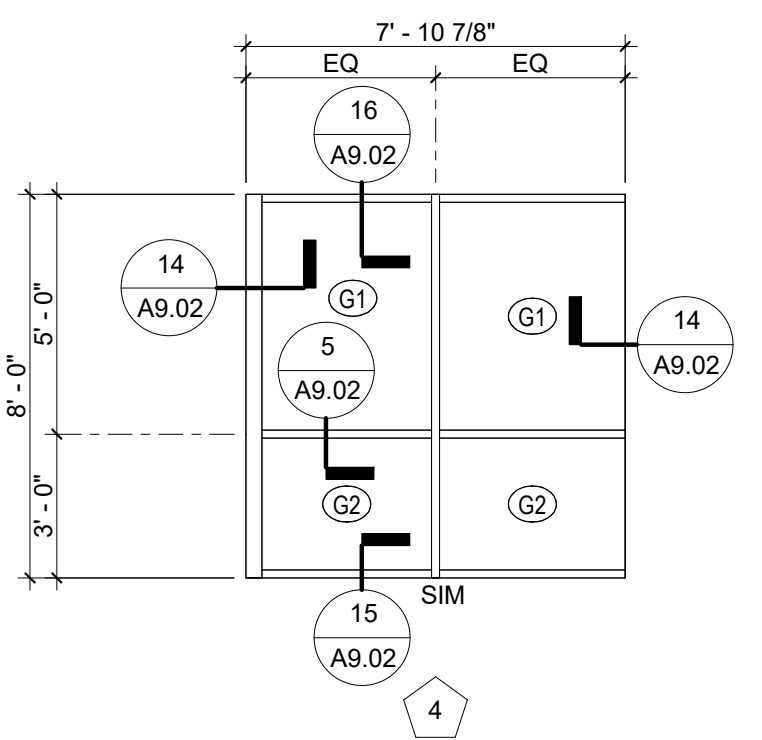
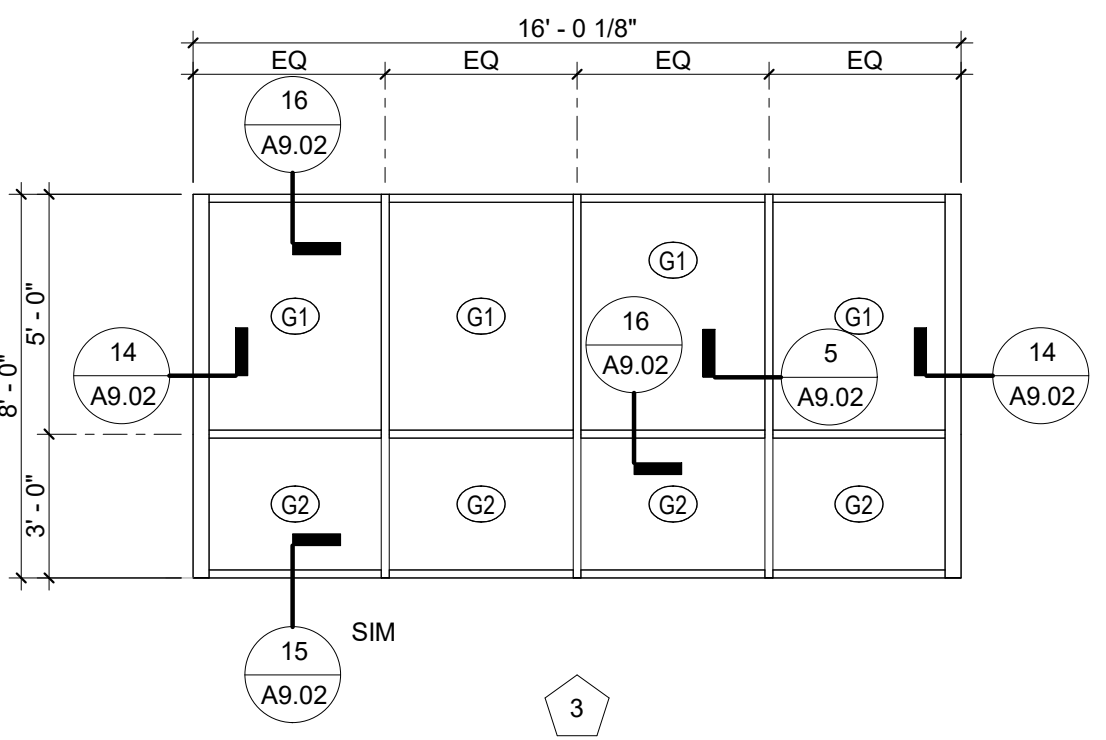
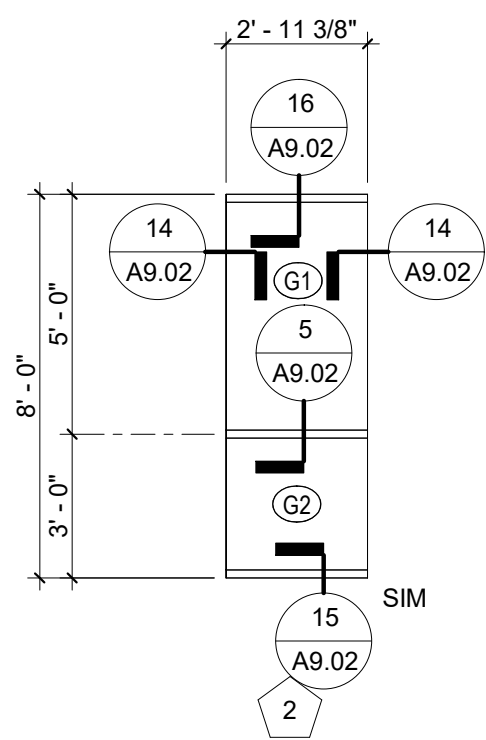
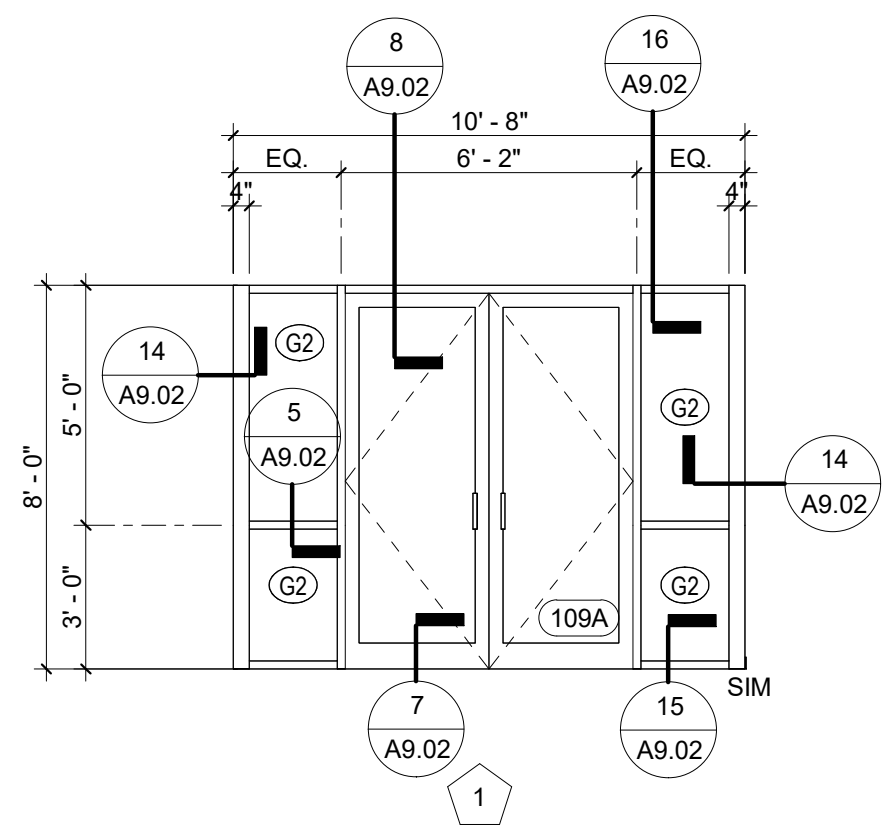
SHEET TITLE: WINDOW SCHEDULES AND DETAILS

REVISIONS

No.	Description	Date
1	CLV COM.	6/21/24

DRAWN BY: KME  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET  
A9.10



GENERAL NOTES

- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- SUBMIT ENGINEERED SHOP DRAWINGS FROM MANUFACTURER INCLUDING GLASS AND FRAME SAMPLES TO ARCHITECT PRIOR TO FABRICATION.
- ALL FRAME EXTERIOR ELEVATIONS ARE VIEWED FROM EXTERIOR OF BUILDING.
- PROVIDE TEMPERED GLASS PER IBC AND AUTHORITY HAVING JURISDICTION REQUIREMENTS. REFER TO IBC CHAPTER 24.
- ALL DIMENSIONS SHOWN ARE FOR ROUGH (RO) OPENING DIMENSIONS. MODIFY AS REQUIRED BASED ON DETAILS AND SHIM REQUIREMENTS.
- OBTAIN ENTRANCES STOREFRONT AND FINISH FROM ONE (1) SOURCE FROM A SINGLE MANUFACTURER. INSTALL ALL MATERIAL PER MANUFACTURER'S INSTRUCTIONS.
- OBTAIN GLASS FROM ONE (1) SOURCE FROM A SINGLE MANUFACTURER. INSTALL ALL MATERIAL PER MANUFACTURER'S INSTRUCTIONS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL WINDOW SYSTEM AND GLAZING INFORMATION.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL DRAWINGS AND CALCULATIONS REQUIRED BY AHJ PRIOR TO FABRICATION. INITIATE THIS REQUIREMENT PRIOR TO CONSTRUCTION TO AVOID DELAY.
- FULL LENGTH BLOCKS SHALL BE USED AT ALL OPENING HEADERS, UNO.
- ALL INTERIOR GLASS THICKNESS ARE MINIMUM THICKNESS. THE FINAL GLASS THICKNESS TO BE DETERMINED BY WINDOW MANUFACTURER / FABRICATOR TO ENSURE STRUCTURAL INTEGRITY AND MINIMIZE DEFLECTION PER SPECIFICATIONS AND GOOD INDUSTRY STANDARDS.
- REFER TO I.E.C.C. REPORT FOR ENERGY EFFICIENCY RATING REQUIREMENTS FOR ALL EXTERIOR GLAZING. U-VALUES AND SHGC VALUES PROVIDED ARE FOR FULL SYSTEM ASSEMBLIES AND SHALL APPLY TO THE COMBINED GLAZING AND FRAMING PRODUCT. CONTRACTOR TO SELECT PRODUCTS TO MEET THESE MINIMUM REQUIREMENTS AND PROVIDE SUBMITTAL FROM MANUFACTURER WITH TESTING REQUIREMENTS CONFIRMING THE FULL PRODUCT ASSEMBLY VALUES REQUIRED. WINDOWS --U-VALUE 0.30, SHGC 0.25.
- ALL OPERABLE IN CORRIDORS / COMMON ROOMS TO HAVE A STOP INSTALLED TO ALLOW OPENING OF 4" MAX. TYPICAL.

GLAZING TYPE LEGEND

- G1 VISION GLASS UNIT
- G2 TEMPERED VISION GLASS UNIT

FRAME TYPE LEGEND

- 101 DOOR NUMBER - SEE DOOR SCHEDULE SHEET A9.00



5195 S. Durango Drive  
Suite #103  
Las Vegas, NV 89113

Office: 702.888.2088  
Fax: 702.888.2089  
Web: www.kmearchitects.com  
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PROJECT:  
**SNRHA BENNETT PLAZA PHASE II**  
1818 Balzar Ave, Las Vegas, NV 89106

SHEET TITLE:  
**WINDOW ELEVATIONS**

REVISIONS

No.	Description	Date

DRAWN BY: Author  
DATE:  
JOB NO: 2023-014  
SCALE: AS INDICATED  
CHECK SCALE DRAWINGS

SHEET

A9.11

ROOM FINISH SCHEDULE

Table with columns: WT, ROOM NAME, AREA, PERIMETER, FLOOR, WALL, CEILING, FINISH, ACCENT, FINISH, NOTES. Lists various rooms like COVERED ENTRY, LOBBY, LAUNDRY, etc. with their respective finish codes and descriptions.

FINISH MATERIALS

Table detailing finish materials for different areas. Columns include FLOOR, WALLS, CEILINGS, MILLWORK, PAINT, GROUT, LVT, RB, TRIM, CMU, WC, WD. Each entry specifies location, description, manufacturer, style, and color.



5195 S. Durango Drive Suite #103 Las Vegas, NV 89113

Office: 702.888.2088 Fax: 702.888.2089 Web: www.kmearchitects.com © KME Architects LLC. 2024



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SNRHA BENNETT PLAZA PHASE II 1818 Balzar Ave. Las Vegas, NV 89106

PROJECT:

SHEET TITLE: ROOM FINISH SCHEDULE

REVISIONS

Table with columns: No., Description, Date. For tracking project changes.

DRAWN BY: KME DATE: 2023-014 JOB NO: SCALE: AS INDICATED ON THE SCALE DRAWINGS

SHEET