

ACCESSIBLE ROUTE - EXTERIOR

4.1.2(1) Where required
At least one accessible route complying with this section shall be provide within the boundary of the site from the following areas to an accessible building entrance.

Public transportation stops
Accessible parking spaces
Passenger loading zone, if provided
Public streets and sidewalks

4.1.2(2) Where required
At least one accessible route complying with this section shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site.

4.3.2(1) Location
The accessible route shall, to the maximum extent feasible, coincide with the route for the general public.

4.3.3 Width
Minimum clear width: 36" (except as allowed at doors)

4.3.3 Width of Turns
36" clear width is permitted for a 90 turn if no additional turn is required within 48".

Clear width with turns around an obstruction less than 48" wide shall be 42" minimum, with 48" minimum width at turn.

4.3.4 Passing Space

If an accessible route is less than 60" wide, passing spaces are required at maximum 200' intervals. Passing space may be either a 60" X 60" space, or a T-intersection of two walks or corridors.

4.3.5 4.4.2 Headroom
Minimum clear headroom: 80"
If vertical clearance of an area adjoining an accessible route is reduced to less than 80", a barrier shall be provided.

4.3.7 Slope
Running slope shall not exceed 1:20. (If slope exceeds 1:20, refer to 'ramps' or 'curb ramps' section.)
Cross slope shall not exceed 1:50 (2%).

4.3.8 4.5.2 Changes in Level
Up to 1/4"; requires no edge treatment (vertical edge permitted).
1/4" to 1/2": Edge shall be beveled with a slope no greater than 1:2.
Greater than 1/2": Requires curb ramp, ramp, elevator, or platform lift.
Stairs shall not be part of an accessible route.

4.3.6 4.5 Ground and Floor Surfaces
Shall be firm, stable and slip-resistant. (If carpet is used, refer to requirements under Element 5: Accessible Route).

4.29 Detectable Warnings
At Hazardous Vehicular Ares. If a walk crosses or adjoins a vehicular way, and the walking surfaces are not separated by curbs, railings, or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous detectable warning 36" wide, complying with the requirements below.

At Reflecting Pools. The edges of reflecting pools not protected by railings, walls, or curbs, shall have detectable warnings complying with the requirements below.

Detectable Warnings. Surface shall consist of a raised truncated domes with the following features:
Diameter: 0.9" nominal
Height: 0.2" nominal
The surface shall contrast visually with adjoining surfaces.

4.54 Gratings
If gratings are located in walking surfaces, then they shall have spaces no greater than 1/2" wide inn one direction.
If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

4.1.2(3) 4.4.1 Protruding Object
Objects projecting from walls with their leading edges between 27" and 80" above the finished floor shall protrude no more than 4" into walks or corridors.
Objects projecting from walls with their leading edges at or below 27" above the finished floor may protrude any amount.

Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27" to 80" above the finished floor or ground.
Protruding objects shall not reduce the required clear width of an accessible route or maneuvering space.

4.6.6 'Universal' Accessible Spaces
When all entrances are not accessible, accessible entrances shall be identified by a sign showing the International Symbol of Accessibility. Entrances which are not accessible (including altered entrances which are not made accessible) shall have directional signage indicating the location of the nearest accessible entrance.

4.6.5 Passenger Loading Zones
Passenger loading zones shall have the following minimum dimensions:
Vehicle pull-up space width: (not specified)
Access aisle width: 60"
Access aisle length: 20" (adjacent and parallel to vehicle space)
Vertical clearance: 114" (at loading zone and along at least one vehicular route to the loading zone).

4.6.3 Access Aisle
Parking access aisles shall be part of an accessible route to the building or facility entrance.

Two accessible parking spaces may share a common access aisle.
Parked vehicle overhangs shall not reduce the clear width of an accessible route.

4.6.3 4.6.6 Slope
Parking spaces, passenger loading zones, and access aisles shall have a maximum slope of 1:50 (2%) in all directions. (Curb ramps are not permitted within the required area of access aisles and loading zones.)

4.1.2(7)(d) 4.6.4 Signage
Accessible parking spaces shall be designated as reserved by a sign showing the International Symbol of Accessibility.

Van accessible' spaces shall have an additional sign state 'Van-Accessible' below the symbol of accessibility. (This additional sign is not required when all 'universal' accessible spaces are provided.)

Accessible passenger loading zones shall be identified by a sign showing the International Symbol of Accessibility.
Signs shall be located so that they cannot be obscured by a vehicle parked in the space.

CURB RAMPS

4.7.2 4.8.2 4.1.6(3)(a) Slope
Least possible slope shall be used.

Maximum slope: 1:12
Transitions shall be flush and free of abrupt changes.
Maximum slope of adjacent surfaces: 1:20.

Alterations/Existing Conditions:
Where space limitation prohibit use of 1:12 ramp, following slopes are acceptable:
Max. rise of 6": 1:10 to 1:12 slope
Max. rise of 3": 1:8 to 1:10 slope
Slope greater than 1:8 is prohibited.

4.7.3 Clear Width
Minimum: 36"

4.7.4 4.4.5 Surface
Shall be firm, stable, and slip-resistant.

4.7.5 Sides
If located where pedestrians may walk across the ramp, the sides of the ramp shall be flared, with a maximum slope of 1:10.

If the width of the walking surface at the top of the ramp is less than 48" wide, the flared sides shall have a maximum slope of 1:12.
Returned curbs may be used only where pedestrians would not normally walk across the ramp.

4.7.6 Built-Up Curb Ramps
Shall be located so they do not project into traffic lanes.

4.7.7 4.29.2 Detectable Warnings
Required for full width and depth of ramp.

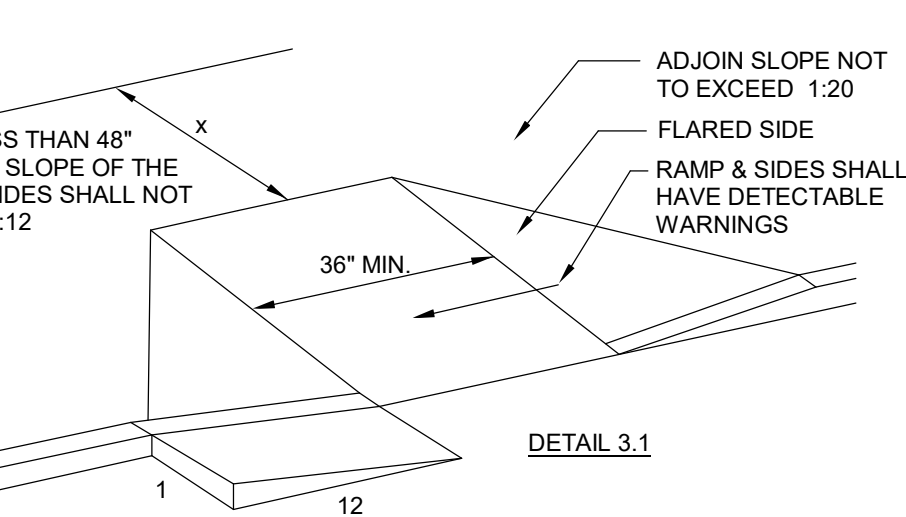
Surface shall consist of raised truncated domes with following features:
Diameter: 0.9" nominal
Height: 0.2" nominal
Center to center spacing: 2.35" nominal
The surface shall contrast visually with adjoining surfaces.
The material providing contrast shall be an integral part of the walking surface.

4.7.8 Obstructions
Shall be located to prevent obstruction by parked vehicles.

4.7.9 Location at Marked Crossings
If at marked crossing, shall be fully contained within marked area, excluding flared sides.

4.7.10 Diagonal Curb Ramps
With returned curb, must be parallel to pedestrian flow.
If at marked crossing, minimum 48" wide area at bottom of ramp shall be contained within the marked crossing.
If flared sides, at least 24" of straight curb required within crossing area.

4.7.11 Islands
Any raised islands in crossing shall either be cut through level with the street, or shall have curb ramps each side, with minimum 48" long level area between.



ENTRANCES

4.1.3(8)(a)(i) Minimum number
The number of accessible entrances shall be equivalent to the number of exits required by the applicable building/fire code. (Example: If a building is being designed with 5 public entrances, and 4 exits are required by local code, then at least 4 of the public entrances must be accessible. Note: This section does not require an increase in the planned number of entrances to a building - e.g. if a building is being designed with 3 public entrances, and 4 exits are required by local code, all 3 public entrances must be accessible, but a fourth accessible entrance need not be added.)

4.1.3(8)(a)(ii) Where required
An accessible entrance shall be provided to each tenancy in a facility (e.g. individual stores in a strip shopping center).

4.1.3(8)(b)(i) Where required
If direct pedestrian access is provided into the building from an enclosed parking garage, at least one entrance from the garage to the building shall be accessible.

4.1.3(8)(b)(ii) Where required
If pedestrian access is provided from pedestrian tunnels or elevated walkways, at least one building entrance from each tunnel or walkway shall be accessible.

4.1.3(8)(c) Where required
If the only entrance to a building, or tenancy in a facility, is a service entrance, the entrance shall be accessible.

4.1.3(8)(c) Location
Where feasible, accessible entrances shall be the entrances used by the majority of people visiting or working in the building.

4.1.2(7)(d) 4.1.3(8)(d) 4.1.6(1)(h) 4.30 Signage
When all entrances are not accessible, accessible entrances shall be identified by a sign showing the International Symbol of Accessibility. Entrances which are not accessible (including altered entrances which are not made accessible) shall have directional signage indicating the location of the nearest accessible entrance.

The signage shall comply with the requirements for:
Character Proportion Character Height
Finish and Contrast (Refer to Element 16: Signage for specific requirements.)
The signage shall be installed in a location which will prevent a person with a disability from having to retrace his approach route to the inaccessible entrance.

4.1.3(7)(a) Doors
At each accessible entrance, at least one door shall be accessible.

ACCESSIBLE ROUTE - INTERIOR

4.1.3(1) Where required
At least one accessible route complying with this section shall connect accessible building or facility entrances with all accessible spaces and elements within the building or facility.

4.3.2(4) Where required
An accessible route shall connect at least one accessible entrance of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the accessible dwelling unit.

4.1.3(5) 4.1.6(1)(k)(ii) Where required
In multi-story buildings not required to have an elevator (refer to Element 8: Elevators), floors located above and below the accessible ground floor entrance shall comply with other requirements of Elements 1-20.

In existing multi-story buildings without an elevator, alterations to floors above and below the accessible ground floor shall comply with other requirements of Elements 1-20.

4.3.3 Width
Minimum clear width: 36" (except as allowed at doors).

4.3.3 Width at Turns
36" clear width is permitted for a 90 turn if no additional turn is required within 48".

Clear width with turns around an obstruction less than 48" wide shall be 42" minimum, with 48" minimum width at turn.

4.3.4 Passing Space
If an accessible route is less than 60" wide, passing spaces are required at maximum 200' intervals. Passing space may be either 60" by 60" space, or a T-intersection of two walks or corridors.

4.3.5 4.4.2 Headroom
Minimum clear headroom: 80"
If vertical clearance of an area adjoining an accessible route is reduced to less than 80", a barrier shall be provided.

4.3.7 Slope
Running slope shall not exceed 1:20. (If slope exceeds 1:20, refer to 'ramps' section).
Cross slope shall not exceed 1:50 (2%).

4.3.8 4.5.2 4.1.6(1)(f) Changes in Level
Up to 1/4"; requires no edge treatment (vertical edge permitted).
1/4" to 1/2": Edge shall be beveled with a slope no greater than 1:2.
Greater than 1/2": Requires a ramp, elevator, or platform lift.

Stairs shall not be part of an accessible route.

Alterations/Existing Conditions:
If an escalator or stair is added where none existed previously, and major structural modifications are necessary for such installation, then a means of accessible vertical access (ramp, elevator, or platform lift) shall be provided.

4.3.6 4.5 Ground and Floor Surfaces
Shall be firm, stable, and slip-resistant. (If gratings are used, refer to requirements under Element 1: Accessible Route.)

4.5.3 Carpet
If carpet is used, it shall have the following features:
1. Length: Minimum 60" clear
2. If ramp changes direction at landing, landing shall be minimum 60" by 60".
3. If doorway is located at landing, maneuvering space is required (refer to Element 10: Doors).

4.4.1 Protruding Objects
Objects protruding from walls with their leading edges between 27" and 80" above the finished floor shall protrude no more than 4" into walks or corridors.
Objects projecting from walls with their leading edges at or below 27" above the finished floor may protrude any amount.

Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27" to 80" above the finished floor or ground.
Protruding objects shall not reduce the required clear width of an accessible route or maneuvering space.

4.2.4 Clear Floor Space
The minimum clear floor space required to accommodate a single, stationary wheelchair is 30" by 48", and may be positioned for either a forward or parallel approach.

If a forward approach clear floor space extends more than 24" into an alcove, the minimum alcove width shall be 36".
If a parallel approached clear floor space extends more than 15" into an alcove, the minimum alcove length shall be 60".

4.2.5 Reach Ranges
If a clear floor space allows only a forward approach, the maximum high forward reach shall be 48".
The minimum low forward reach shall be 15".
If the high forward reach is over an obstruction, the following conditions shall be met: Knee space below obstruction shall equal or exceed reach length required above the obstruction.

If the obstruction is less than 20" deep, the maximum high forward reach shall be 48".
If the obstruction is 20-25" deep, the maximum high forward reach shall be 44".
If the clear floor space allows a parallel approach, the maximum high side reach shall be 54".

The minimum low side reach shall be 9".
If the high side reach is over an obstruction, the following conditions shall be met: Obstruction shall be 34" maximum in height, 24" in depth, maximum high side reach shall be 46".

4.1.3(13) 4.27 Controls and Operating Mechanisms
All controls and operating mechanisms in accessible spaces, along accessible routes, and as parts of accessible elements, shall comply with the following:

1. Clear floor space shall be provided to allow forward or parallel approach.
2. Heights of all operable portions shall comply with the reach ranges above.

Electrical and communications system receptacles on walls shall be 15" minimum above the floor.
Exception: The height requirements do not apply where the use of special equipment dictates otherwise or where electrical and communications systems receptacles are not normally intended for use by building occupants.

3. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
4. The force required to activate controls shall be no greater than 5 lbf.

4.1.3(9) 4.1.6(1)(g) 4.3.10 Means of Egress
In buildings or facilities, or portions of buildings and facilities, required to be accessible, accessible means of egress shall be provided in the same number as required for exits by local building/life safety regulations.

Accessible routes serving any space or element shall also serve as a means of egress for emergencies or connect to an accessible area of rescue assistance.
Where a required exit from an occupiable level above or below a level or accessible exit/discharge is not accessible, an area of rescue assistance shall be provided on each level (in a number equal to that of inaccessible required exits).

Areas of rescue assistance shall comply with requirements listed below.
Exception: A horizontal exit, meeting the requirements of local building/life safety regulations, shall satisfy the requirement for an area of rescue assistance.
Exception: Areas of rescue assistance are not required in buildings or facilities having a supervised automatic sprinkler system.

4.3.11 Areas of Rescue Assistance
Location and Construction: An area of rescue assistance shall be one of the following:

1. A portion of a stairway landing within a smoke proof enclosure (complying with local requirements).
2. A portion of an exterior exit balcony (complying with local requirements) located immediately adjacent to an exit stairway. Openings to the interior of the building located within 20' of the area of rescue assistance shall be protected with fire assemblies having a 3/4 hour fire protection rating.

3. A portion of a 1 hour fire-resistive corridor (complying with local requirements) located immediately adjacent to an exit enclosure.

4. A vestibule located immediately adjacent to an exit enclosure and constructed to the same fire-resistive standards as required for corridors and openings.

5. A portion of a stairway landing within an exit enclosure which is vented to the exterior and is separated from the interior of the building with not less than 1 hour fire-resistive doors.

6. When approved by the appropriate local authority, an area or room which is separated from other portions of the building by a smoke barrier. Smoke barriers shall have a fire-resistive rating of not less than 1 hour and shall completely enclose the area or room. Doors in the smoke barrier shall be tight-fitting smoke and draft control assemblies having a fire -protection rating of not less than 20 minutes and shall be self- or automatic-closing. The area or room shall be provided with an exit directly to an exit enclosure. Where the room or area exits into an exit enclosure which is required to be of more than 1 hour fire-resistive construction, the room or area shall have the same fire-resistive construction, including the same opening protection, as required for the adjacent exit enclosure.

7. An elevator lobby when elevator shafts and adjacent lobbies are pressurized as required for smoke proof enclosures by local regulations. Such pressurization system shall be activated by smoke detectors on each floor located in a manner approved by the local authority. Pressurization equipment and its duct work shall be separated from other portions of the building by a minimum 2 hour fire-resistive construction.

Size: Each area of rescue assistance shall provide a minimum of 2 accessible spaces each being not less than 30" by 48". These spaces shall not encroach on any required exit width. The total number of spaces per story shall not be less than 1 per 200 persons of calculated occupant load served by the area of rescue assistance.

Exception: The local authority may reduce the minimum number of spaces to 1 for each area of rescue assistance on floors where the occupant load is less than 200.

Stairway Width: Each stairway adjacent to an area of rescue assistance shall have a minimum clear width of 48" between handrails.

Two-way Communication: A method of two-way communication, with both visible and audible signals, shall be provided between each area of rescue assistance and the primary building entry. The fire department or local authority may approve a location other than the primary entry.

Identification: Each area of rescue assistance shall be identified by a sign which states "AREA OF RESCUE ASSISTANCE" and displays the International Symbol of Accessibility. The sign shall be illuminated when exit sign illumination is required. Signage shall also be installed at all inaccessible exits and where otherwise necessary to clearly indicate the direction to areas of rescue assistance. In each area of rescue assistance, instructions on the use of the area under emergency conditions shall be posted adjoining the two-way communication system.

RAMPS

4.8.1 Where required
Wherever the slope of the accessible route exceeds 1:20 (5%).

4.8.2 Slope
Least possible slope shall be used
Maximum slope 1:12
Transitions shall be flush and free of abrupt changes
Maximum slope of adjacent surfaces: 1:20

4.8.3 Clear Width
Minimum: 36"

4.8.4 Landings
Level landings required at top and bottom of each run, with the following features:

1. Minimum Width: Equal to width of ramp.
2. Length: Minimum 60" clear
3. If ramp changes direction at landing, landing shall be minimum 60" by 60".
4. If doorway is located at landing, maneuvering space is required (refer to Element 10: Doors).

4.8.5 Handrails
Required if: Rise exceeds 6" or Run (horizontal projection) exceeds 72".
Shall be provided on both sides of ramps.

Inside rail on switchback or dogleg ramps shall be continuous.

Where not continuous, rails shall extend at least 12" beyond top and bottom of ramp, parallel to ground surface.

Height: 34"-38" above ramp surface.
Clear floor space between rail and any wall shall be 1-1/2".
Gripping surfaces shall be continuous (uninterrupted).

Ends shall be rounded, or returned smoothly to floor, wall, or post.
Handrails shall not rotate in their fittings.

Diameter or width of gripping surface shall be 1-1/4" to 1-1/2", or shall provide an equivalent gripping surface.

May be located in a recess provided that the recess is 3" deep maximum and extends 18" minimum above the top of the handrail.

Rails and adjacent surfaces shall be free of abrasive or sharp elements. Edges shall have a minimum radius of 1/8".

4.8.6 Cross Slope
Maximum cross slope of ramp surface shall be 1:50.

4.8.6, 4.5 Surfaces
Ramp surface shall be firm, stable, and slip-resistant (If carpeted, refer to requirements under Element 5: Accessible Routes.)

4.8.7 Edge Protection
Ramps and landings with vertical side drop-offs shall have walls, railings, projecting surfaces, or minimum 2" high curbs, to prevent people from slipping off the ramp

4.8.8 Outdoor Conditions
Outdoor ramps and their approaches shall be designed so that water will not accumulate on their walking surfaces.

STAIRS

4.1.3(4) When applicable
Interior and exterior stairs connecting levels not served by an elevator, ramp, or other accessible means of vertical access shall comply with this section.

4.9.2 Treads and Risers
All steps on a flight of stairs shall have uniform riser heights and tread widths.
Minimum tread depth shall be 11", measured from riser to riser (not including nosing). Open risers are not permitted.

4.9.3 Nosing
Undersides of nosings shall not be abrupt.
Radius of curvature at leading edge of nosing shall not exceed 1/2".
Risers shall be sloped or underside of nosing shall have an angle not less than 60 .
Nosings shall project no more than 1-1/2".

4.9.4 Handrails
Required on both sides of all stairs.

Inside rail on switchback or dogleg stairs shall be continuous.

Where not continuous, handrail extensions shall be provided as follows:
Top of stair flights: Parallel to floor, 12" minimum beyond top riser nosing.

Bottom of stair flights: Continue sloping for one tread width beyond bottom riser, plus 12" minimum parallel to floor.

Height: 34"-38", measured from stair nosing.
Clear floor space between rail and any wall shall be 1-1/2".

Gripping surfaces shall be uninterrupted by newel posts, other construction elements, or obstructions.

Ends shall be rounded, or returned smoothly to floor, wall, or post.
Handrails shall not rotate in their fittings.

4.26.2 Handrails
Diameter or width of gripping surface shall be 1-1/4" to 1-1/2", or shall provide an equivalent gripping surface.
May be located in a recess provided that the recess is 3" deep maximum and extends 18" minimum above the top of the handrail.

4.26.4 Handrails
Rails and adjacent surfaces shall be free of abrasive or sharp elements.
Edges shall have a minimum radius of 1/8".

4.9.6 Outdoor Conditions
Outdoor stairs and their approaches shall be designed so that water will not accumulate on walking surfaces.

PLATFORM LIFTS
4.1.3(5) Excep. 4 4.1.6(3)(g) Where permitted
Platform lifts complying with this section and all applicable state and local codes are permitted only under the following conditions:

a. To provide an accessible route to a performing area in an assembly occupancy.
b. To comply with wheelchair viewing position line-of-sight and dispersion requirements.
c. To provide access to incidental occupiable spaces which are not open to the general public and which house no more than five persons (ie. equipment control rooms, projection booths).

d. To provide access where existing site constraints or other constraints make use of a ramp or an elevator infeasible.

4.11.2 Other Requirements
Platform lifts shall comply with ASME/ANSI A17.1 Safety Code for Elevators and Escalators, Section XX, 1990.

4.11.3 Entrance
Lifts shall facilitate unassisted entry, operation, and exit.

4.2.4.1 Clear Floor Space
Minimum 30" by 48" space is required for a single wheelchair.

4.2.4.2 Maneuvering Clearance
The platform lift shall provide maneuvering clearances as required for alcoves on the accessible route.

4.5.1 Floor Surface
Shall be stable, firm, and slip-resistant. (If carpeted, refer to requirements under Element 5: Accessible Route.)

4.11.2 4.27.2 Controls and Operating Mechanisms
Clear floor space allowing a proper forward or parallel wheelchair approach to all controls is required.

4.2.4.2 Maneuvering Clearance
The platform lift shall provide maneuvering clearances as required for alcoves on the accessible route.

4.5.1 Floor Surface
Shall be stable, firm, and slip-resistant. (If carpeted, refer to requirements under Element 5: Accessible Route.)

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The platform lift shall provide maneuvering clearances as required for alcoves on the accessible route.

4.5.1 Floor Surface
Shall be stable, firm, and slip-resistant. (If carpeted, refer to requirements under Element 5: Accessible Route.)

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4.5.1 Floor Surface
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4.5.1 Floor Surface
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4.11.2 4.27.2 Controls and Operating Mechanisms
Clear floor space allowing a proper forward or parallel wheelchair approach to all controls is required.

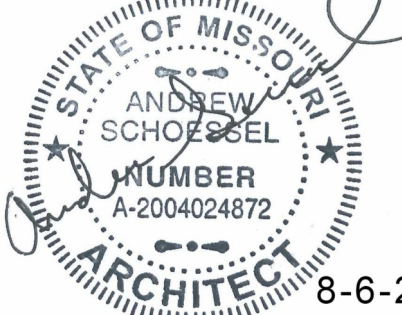
4.2.4.2 Maneuvering Clearance
The platform lift shall provide maneuvering

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Revisions:

ACCESSIBILITY REQUIREMENTS

A0.2

Issue Date: 05/31/2024

WATER CLOSETS

- 4.16.2 Water closets shall be located 18" from a side wall or partition.
Clear water space for water closets not located in toilet stalls is required as follows, depending on approach provided to the fixture (all dimensions are minimum):
1. Front approach: 66" from back wall, 48" from side wall (lavatory may protrude 12" maximum into clear space along back wall).
 2. Side approach: 56" from back wall, 48" from side wall (lavatory may protrude 12" maximum into clear space along back wall).
 3. Front and Side approach: 56" from back wall, 60" from side wall (lavatory may not protrude into clear space).

Clear floor space may be arranged to allow either a left-handed or right-handed approach.

- 4.16.3 Height
The height to the top of the toilet seats shall be 17" to 19".
Seats shall not be sprung to return to a lifted position.
- 4.16.4 Grab Bars
For water closets not located in toilet stalls, the following grab bars shall be provided, 33"-36" above the finish floor:
Side Wall: 42" long minimum, 12" from back wall.
Back Wall: 36" long minimum, 12" minimum each side of water closet centerline.

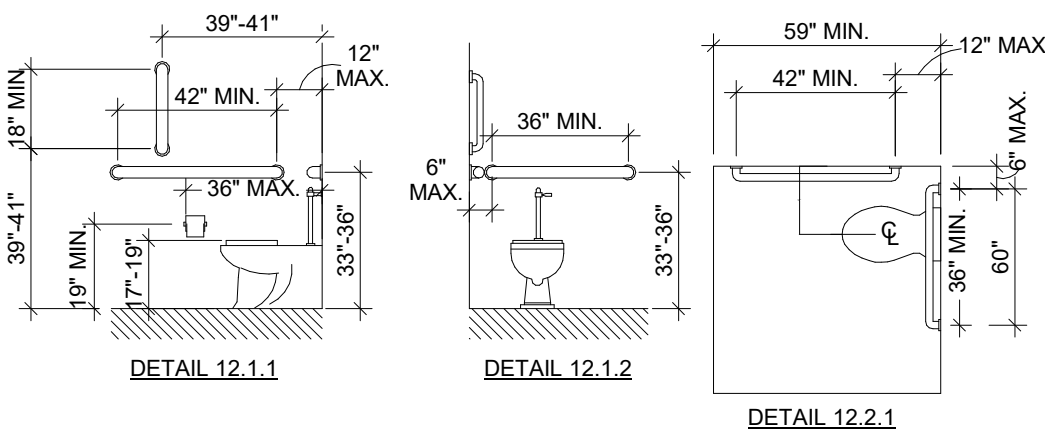
- 4.16.5 Flush Controls
Controls shall be 44" maximum above the finish floor.
Controls for flush valves shall be mounted on the wide side of toilet areas.
Controls shall be hand operated or automatic.
Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
The force required to activate controls shall be no greater than 5 lbf.

- 4.16.6 Dispensers
Toilet paper dispensers shall be installed on the side wall, below the grab bar, a minimum 19" above the floor, and a maximum 36" from the rear wall.
Dispensers that control delivery, or do not permit continuous paper flow, shall not be used.

TOILET STALLS

- 4.22.4 Where applicable
If toilet stalls are provided in a toilet room or bathroom, then at least one shall be a 'standard' accessible toilet stall (for wheelchair users) complying with this section. If 6 or more toilet stalls are provided in a toilet room or bathroom, in addition to the 'standard' accessible stall required, an addition 'alternate A' accessible stall (for ambulatory persons with disabilities) complying with this section shall be provided.
- 4.17.2 Water Closets
Water closets located within toilet stalls shall comply with Element 12.1: Water Closets.
- 4.17.3 Size and Arrangement
Toilet stalls may be arranged to provide either a left- or a right-hand approach.
Accessible toilet stalls shall have the following dimensions:
Standard Accessible Stall
Minimum Width: 60"
Minimum Depth, with floor mounted water closet: 59"
Minimum Depth, with wall mounted water closet: 56"
Door: Outward swinging (if door swings into stall, depth shall be increased by 36")
Alternate A' Accessible Stall (required when more than 6 stalls provided; permitted in lieu of 'standard' stalls in certain alterations).
Width: 36"
Minimum Depth: with floor mounted water closet: 69"
Minimum Depth: with wall mounted water closet: 66"
Door: Outward swinging
Alternate B' Accessible Stall (permitted in lieu of standard stall only in certain alterations)
Minimum Width: 48"
Minimum Depth: 54"
Door: Outward Swinging

- 4.17.4 Toe Clearance
In 'standard' accessible stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9" above the floor.
If the depth of the stall is greater than 60", the toe clearance is not required.



- 4.17.5 Doors
Toilet stall doors, including hardware, shall comply with Element 10: Doors. If toilet stall approach is the latch side of the stall door, clearance between the door side of the stall and any obstruction shall be 42" minimum. (This an exception from typical door maneuvering clearances).

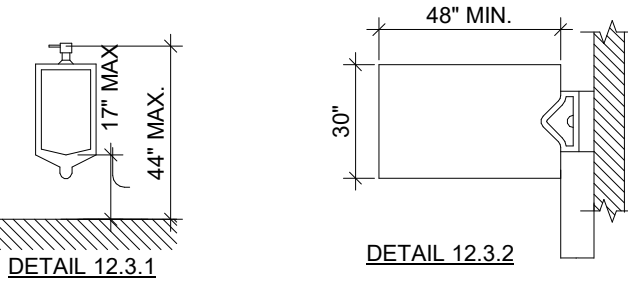
- 4.17.6 Grab Bars
Grab Bars, mounted 33"-36" above the floor, shall be provided as follows:
Standard Accessible Stall: One 40" side wall grab bar (on near wall), one 18" vertical side wall grab bar, one rear wall grab bar.
Alternate A' Accessible Stall: 42" side wall grab bar each side
Alternate B' Accessible Stall: One 42" side wall grab bar (on near wall), one 18" vertical side wall grab bar, one rear wall grab bar.

- Side Wall Grab Bar: Minimum length as indicated, mounted 12" maximum off rear wall.
Side Wall Vertical Grab Bar: Minimum length as indicated, mounted 39"-41" off rear wall.
Rear Wall Grab Bar: Minimum length 36", 12" minimum each side of water closet centerline.
Refer to Element 12.8: Grab Bars for size and structural requirements.

URINALS

- 4.18.2 Height
Urinals shall be stall-type or wall hung with an elongated rim at 17" maximum above the floor.
- 4.18.3 Clear Floor Space
A clear space 30" wide by 48" deep minimum shall be provided in front of urinal to allow a forward approach.
This space shall adjoin or overlap an accessible route.
Urinal shields that do not extend beyond the front edge of the urinal rim may be provided with 29" clearance between them.

- 4.18.4 Flush Controls
Controls shall be 44" maximum above the finished floor.
Controls shall be hand operated or automatic.
Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
The force required to activate controls shall be no greater than 5 lbf.

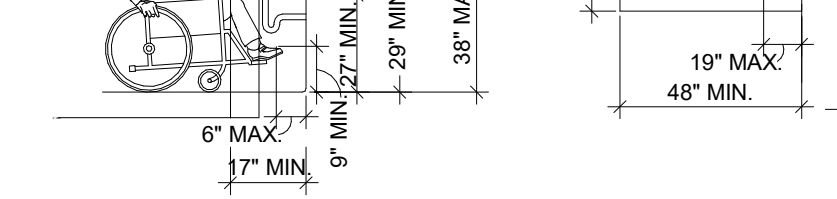


LAVATORIES & MIRRORS

- 4.19.2 Height and Clearance
Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finish floor.
Lavatories shall extend 17" minimum from the wall.
Clearance of 29" minimum shall be provided from finish floor to bottom of apron.
Knee clearance of 27" minimum shall extend 8" minimum under the edge of the lavatory.
Toe clearance of 9" minimum shall be provided for the full depth of the lavatory.

- 4.19.3 Clear Floor Space
A clear floor space 30" by 48" shall be provided in front of a lavatory to allow forward approach.
The clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19" underneath the lavatory.
- 4.19.4 Exposed Pipes and Surfaces
Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact.
There shall be no sharp or abrasive surfaces under lavatories.
- 4.27.4 Faucets
Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
The force required to activate controls shall be no greater than 5 lbf.
Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs.
If self-closing valves are used the faucet shall remain open for at least 10 seconds.

- 4.19.6 Mirrors
Mirrors shall be mounted with the bottom edge of the reflecting surface 38" maximum above the finish floor.
- 4.23.9 Medicine Cabinets
If medicine cabinets are provided, at least one shall be located with a usable shelf no higher than 44" above the floor.



DETAIL 12.5.1

- 4.24.2 Height
Sinks shall be mounted with the rim or counter surface no higher than 34" above the finish floor.

- 4.24.3 Knee Clearance
Knee clearance of 27" high minimum, 30" wide minimum, and 19" deep minimum shall be provided underneath sinks.
- 4.24.4 Depth
Each sink shall be a maximum 6-1/2" deep.
- 4.24.5 Clear Floor Space
A clear floor space 30" by 48" shall be provided in front of a sink to allow forward approach.
The clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19" underneath the sink.

- 4.24.6 Exposed Pipes and Surfaces
Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact.
There shall be no sharp or abrasive surfaces under lavatories.
- 4.27.4 Faucets
Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
The force required to activate controls shall be no greater than 5 lbf.
Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs.
If self-closing valves are used the faucet shall remain open for at least 10 seconds.

GRAB BARS

- 4.26.2 Size and Spacing
Diameter or width of gripping surface shall be 1-1/4" to 1-1/2", or the shape shall provide an equivalent gripping surface.
The space between grab bars and adjacent walls shall be 1-1/2".
- 4.26.3 Structural Strength
Grab Bars and mounting devices shall meet the following requirements:
1. Bending stress induced by maximum bending moment from application of 250 lbf shall be less than allowable stress for material used.
 2. Shear stress induced by application of 250 lbf shall be less than allowable shear stress for material used. If connection between grab bar and mounting bracket is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.
 3. Shear stress induced in a fastener or mounting device from application of 250 lbf shall be less than allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
 4. Tensile force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.
 5. Grab bars shall not rotate within their fittings.

- 4.26.4 Eliminating Hazards
Grab bars and adjacent wall surfaces shall be free of sharp or abrasive surfaces. Edges shall have a radius of 1/8" minimum.

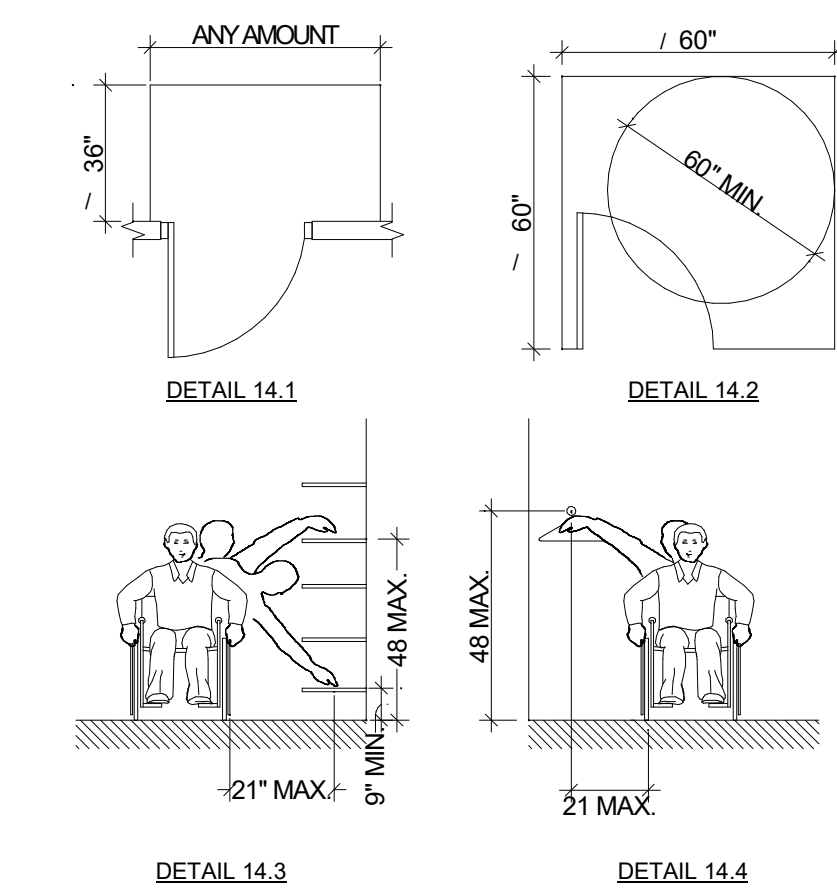
STORAGE

- 4.1.3(12)(a) If fixed or built-in storage facilities such as cabinets, shelves, closets, and drawers are provided in accessible spaces, at least one type provided shall contain storage space complying with this section.
- 4.1.3(12)(b) Where applicable
Shelves or display units allowing self-service by customers in mercantile occupancies shall be located on an accessible route.
- 4.1.7(3)(e) Where required
Historic Preservation:
Displays and written information, documents, etc. should be located where they can be seen by a seated person. Exhibits and signage displayed horizontally (e.g., open books) should be no higher than 44" above the floor.

- 4.25.2 Clear Floor Space
A clear floor space at least 30" by 48" that allows either a forward or parallel approach by a person using a wheelchair shall be provided at accessible storage facilities.

- 4.25.3 Height
Where a forward reach is required, accessible storage spaces shall be 48" maximum and 15" minimum above the floor. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20-25" deep, the maximum height shall be 44"; if the obstruction is less than 20", maximum height shall be 48".
Where a side reach is provided, accessible storage spaces shall be 54" maximum and 9" minimum above the floor. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.
Clothes rods or shelves shall be a maximum 54" above floor where a side reach is required.
Where the distance from the wheelchair to the clothes rod or shelf exceeds 10" (as at closets with inaccessible doors) the following criteria shall be met:
Shelves: maximum reach: 21"; height: 48" maximum, 9" minimum.
Clothes rods: 21" maximum reach; Height: 48" maximum.

- 4.27.4 Hardware
Hardware for accessible storage facilities shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
The force required to activate hardware shall be no greater than 5 lb.



ALARMS

- 4.1.3(14) If emergency warning systems are provided, then they shall include both audible and visible alarms complying with this section.
- 4.28.1 Where required
When required, visual alarms shall be provided in each of the following areas, as a minimum: restrooms and any other general usage areas (e.g., meeting rooms), hallways/lobbies, and any other area for common use.
- 4.28.2 Audible Alarms
If provided, audible alarms shall produce a sound that exceeds the prevailing equivalent sound level in the room or space by at least 15 dba or exceeds any maximum sound level with a duration of 60 seconds by 5 dba, whichever is louder.
Sound levels for alarm signals shall not exceed 120 dba.
- 4.28.3 Visual Alarms
Visual alarm signal appliances shall be integrated into the building or facility alarm system. If single station audible alarms are provided then single station visual alarm signals shall be provided.
Visual alarm appliances shall have the following features:
1. The lamp shall be a xenon strobe type or equivalent.
 2. The color shall be clear or non-white (i.e., unfiltered or clear filtered white light).
 3. The maximum pulse duration shall be two-tenths of one second with a maximum duty cycle of 40%. (The pulse duration is defined as the time interval between initial and final points of 10% of maximum signal.)
 4. The intensity shall be a minimum of 75 candelas.
 5. The flash rate shall be a minimum of 1 Hz and a maximum of 3 Hz.
 6. The appliance shall be placed 80" above the highest floor level within the space.
7. In general, no place in any room or space shall be more than 50' from the signal (measured in a horizontal plane).
In large rooms and spaces exceeding 100' across, without obstructions 6' above the finish floor, such as auditoriums, devices may be placed around the perimeter, spaced a maximum 100' apart, in lieu of suspending appliances from the ceiling.
8. No place in common corridors or hallways shall be more than 50' from the signal.
- 4.28.4 Auxiliary Alarms
Units and sleeping accommodations shall have a visual alarm connected to the building emergency alarm system or shall have a standard 110-volt electrical receptacle into which such an alarm can be connected and a means by which a signal from the building emergency alarm can trigger such an auxiliary alarm.
When visual signals are in place, the signal shall be visible in all areas of the unit or room.
Instructions for use of the auxiliary alarm or receptacle shall be provided.

SIGNAGE

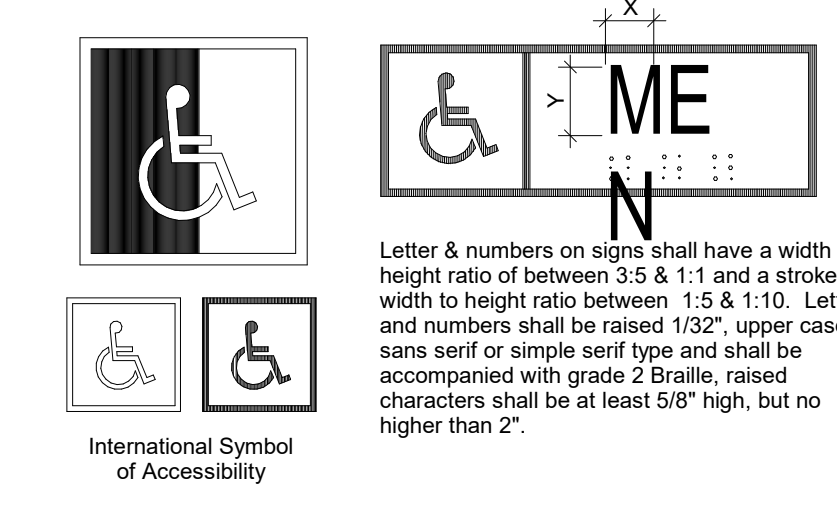
- 4.1.3(16)(a) Where applicable
Signs which designate permanent rooms and spaces shall comply with the requirements listed below for:
Raised and Brailled Characters and Pictograms
Finish and Contrast
Mounting Location and Height
- 4.1.2(7) 4.1.3(16)(b) Where applicable. Signs which provide direction to, or information about, functional spaces of the building shall comply w/ the requirements listed below for:
Character Proportion
Character Height
Finish and Contrast
Exception: Building directories, menus, and all other signs which are temporary are not required to comply.
- 4.1.2(7) Where applicable
Elements and spaces of accessible facilities which shall be identified by the International Symbol of Accessibility are:
- a. Passenger loading zones;
 - b. Accessible passenger loading zones;
 - c. Accessible entrances when not all are accessible (inaccessible entrances shall have directional signage to indicate route to nearest accessible entrance);
 - d. Accessible toilet and bathing facilities when not all are accessible.
- 4.30.2 Character Proportion
Letters and numbers on signs shall have a width-to-height ratio between 3:5 and 1:1, and a stroke-width-to-height ratio between 1:5 and 1:10.

- 4.30.3 Character Height
Characters and numbers on signs shall be sized according to the viewing distance from which they are to be read.
For signs higher than 80" above the finish floor, character size shall be 3" minimum.
Lower case letters are permitted.

- 4.30.4 Raised and Brailled Characters
Letters and numerals shall be raised 1/32", upper case, sans serif or simple serif type and shall be accompanied by grade 2 Braille.
Raised character height: 5/8" minimum, 2" high maximum.
Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram.
The border dimensions of the pictogram shall be 6" minimum.

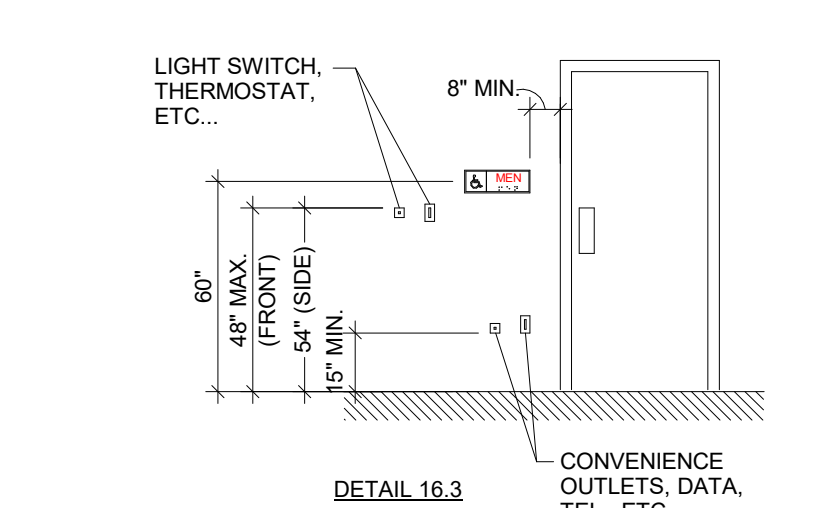
- 4.30.5 Finish and Contrast
The characters and background of signs shall be eggshell, matte, or other non-glare finish. Characters and symbols shall contrast with their background (either light characters on a dark background or dark characters on a light background).
- 4.30.6 Mounting Location and Height
Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door.
Where there is no wall space to the latch side of the door, including at double-leaf doors, signs shall be placed on the nearest adjacent wall.
Mounting height shall be 60" above the finish floor to the centerline of the sign.
Mounting location for such signage shall be so that a person may approach within 3' of signage without encountering protruding objects or standing within the swing of a door.

- 4.30.7 Symbols of Accessibility
1. Facilities and elements required to be identified as accessible shall use the International Symbol of Accessibility.
2. Volume Control Telephones, when required, shall be identified by a sign containing a depiction of a telephone handset with radiating sound waves.
3. Text Telephones, when required, shall be identified by the International TDD Symbol. In addition, if a facility has a public text telephone, directional signage indicating the location of the nearest text telephone shall be placed adjacent to all banks of telephones which do not contain a text telephone. Such directional signage shall include the international TDD symbol. If a facility has no banks of telephones, the directional signage shall be provided at the entrance (e.g. in a building directory).
4. Assistive Listening Systems. In assembly areas where permanently installed assistive listening systems are required, the availability of such systems shall be identified with signage that includes the International Symbol of Access for Hearing Loss.



DETAIL 16.1

DETAIL 16.2



DETAIL 16.3

PUBLIC TELEPHONES

- 4.1.3(17)(a) Where applicable
If public pay telephones, public closed circuit telephones, or other public telephones are provided, then they shall comply with this section in the quantities indicated below:
1. If one or more single unit of a type of public telephone is provided on a floor, then at least one of those phones shall comply with this section.
 2. If one bank (defined as two or more adjacent public telephones, often installed as a unit) of a type of telephone is provided on a floor, then at least one of the telephones at the bank shall comply with this section.
 3. If two or more banks of a type of public telephone are provided on a floor, then at least one telephone per bank shall comply with this section. The accessible unit may be installed as a single unit in proximity (either visible or with signage) to the bank. At least one public telephone per floor shall meet the requirements for a forward reach telephone.

- Exception: For exterior installations only, if dial tone first service is available then a side reach telephone may be installed instead of the required forward reach telephone (i.e., one telephone in proximity to each bank shall comply with this section).
- Additional public telephones may be installed at any height.
Unless otherwise specified, accessible telephones may be either forward or side reach.

- 4.1.3(17)(b) Where applicable
All telephone required to be accessible shall be equipped with a volume control. In addition, 25%, but never less than one, of all other public telephones provided shall be equipped with a volume control and shall be dispersed among all types of telephones, including closed circuit telephones, throughout the building or facility.
Signage displaying the International Symbol of Access for Hearing Loss shall be provided at each telephone equipped with a volume control.
- 4.1.3(17)(c) Text Telephones:
Where required:
1. If a total number of 4 or more public pay telephones (including both interior and exterior phones) is provided at a site, and at least one is in an interior location, then at least one interior public text telephone shall be provided.
2. If an interior public pay telephone is provided in a stadium or arena, in a convention center, in a hotel with a convention center, or in a covered mall, at least one interior public text telephone shall be provided in the facility.
3. If a public telephone is located in or adjacent to a hospital emergency room, hospital recover room, or hospital waiting room, one public text telephone

- Where a bank of telephones in the interior of a building consists of 3 or more public pay telephones, at least one public pay telephone in each such bank shall be equipped with a shelf and outlet to accommodate a portable text telephone as described below.

- 4.1.8(1)(e) Where required
Alterations/Existing Conditions:
At least one interior public text telephone shall be provided if:
1. Alterations to existing buildings or facilities with less than 4 exterior or interior public pay telephones would increase the total number to 4 or more telephones with at least one in an interior location; or
 2. Alterations to one or more exterior or interior public pay telephones occur in an existing building or facility with 4 or more public telephones with at least one in an interior location.

- 4.31.2 Clear Floor Space
A clear floor or ground space at least 30" by 48" that allows either a forward or parallel approach by a person using a wheelchair shall be provided at telephones.
Bases, enclosures, and fixed seats shall not impede approaches to telephones by people who use wheelchairs.
- 4.31.3 Mounting Height
The highest operable part of the telephone shall be 48" max. above the floor where a forward reach is req., and 54" max. where a side reach is req. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20-25" deep the maximum height shall be 44"; if the obstruction is less than 20" deep, maximum height shall be 48".
Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.

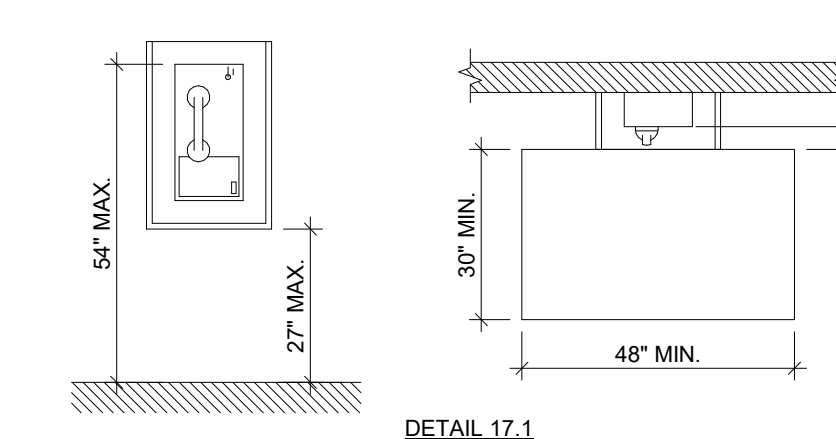
- 4.4.1 Protruding Objects
Objects projecting from walls with their leading edges between 27" and 80" above the finished floor shall protrude no more than 4" into walks or corridors. Objects projecting from walls with their leading edges at or below 27" above the finished floor may protrude any amount.
Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27" to 80" above the finished floor or ground.
Protruding objects shall not reduce the required clear width of an accessible route or maneuvering space.

- 4.31.5 Hearing Aid Compatible and Volume Control Telephones
Lower case letters are permitted.
1. Telephones shall be hearing aid compatible.
 2. Volume controls, capable of a minimum of 12 dba and a maximum of 18 dba above normal, shall be provided. If an automatic reset is provided, then 18 dba may be exceeded.

- 4.31.7 Telephone Books
Telephone books, if provided, shall be located in a position that complies w/ the same reach ranges noted above for operable parts of telephones.

- 4.31.8 Cord Length
The cord from the telephone to the handset shall be at least 20" long.

- 4.31.9 Text Telephones
Where required:
1. Text telephones used with a pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. If an acoustic coupler is used, the telephone cord shall be sufficiently long as to allow connection of the text telephone and the telephone receiver.
2. Pay telephones designed to accommodate a portable text telephone shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a text telephone and shall have 6" minimum vertical clearance in the area where the text telephone is to be placed.
3. Equivalent facilitation may be provided. (For example, a portable text telephone may be made available in a hotel at the registration desk if it is available on a 24 hour basis for use with nearby public pay telephones. In this instance, at least 1 pay telephone shall be designed to accommodate the portable text telephone.)



DETAIL 17.1

SEATING AND TABLES

- 4.1.3(18) Where applicable
If fixed or built-in seating or tables (including, but not limited to study carrels and student laboratory stations) are provided in accessible public or common use areas, at least 5%, but not less than 1, shall comply with this section.
An accessible route shall lead to and through such areas.
- 4.32.2 Seating
If seating spaces for people in wheelchairs are provided at fixed tables or counters, a minimum clear floor space for 30" by 48" shall be provided. Clear floor space may extend under the table or counter (into the knee space) 19" maximum.
- 4.32.3 Knee clearances
If seating for people in wheelchairs is provided at fixed tables or counters, knee spaces at least 27" high, 30" wide, and 19" deep shall be provided.
- 4.32.4 Height of Tables or Counters
The tops of accessible tables and counters shall be 28" minimum, and 34" maximum, above the finish floor.

AUTOMATIC TELLER MACHINES

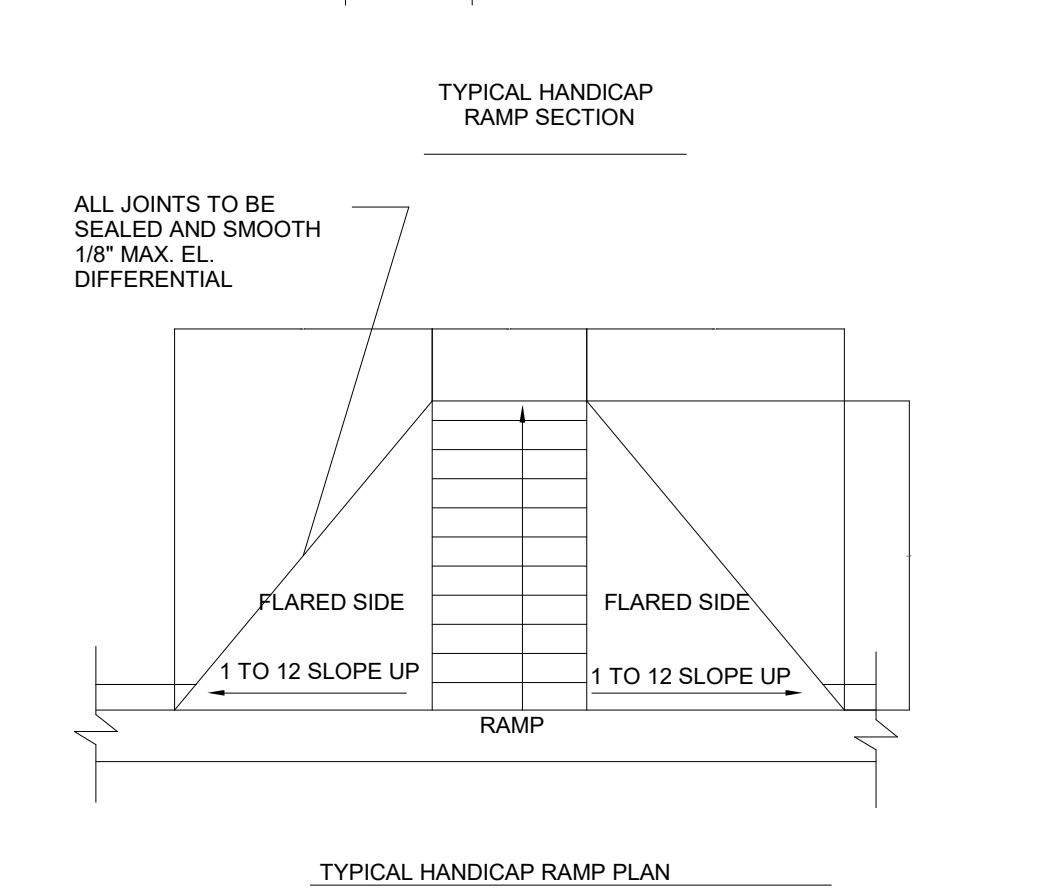
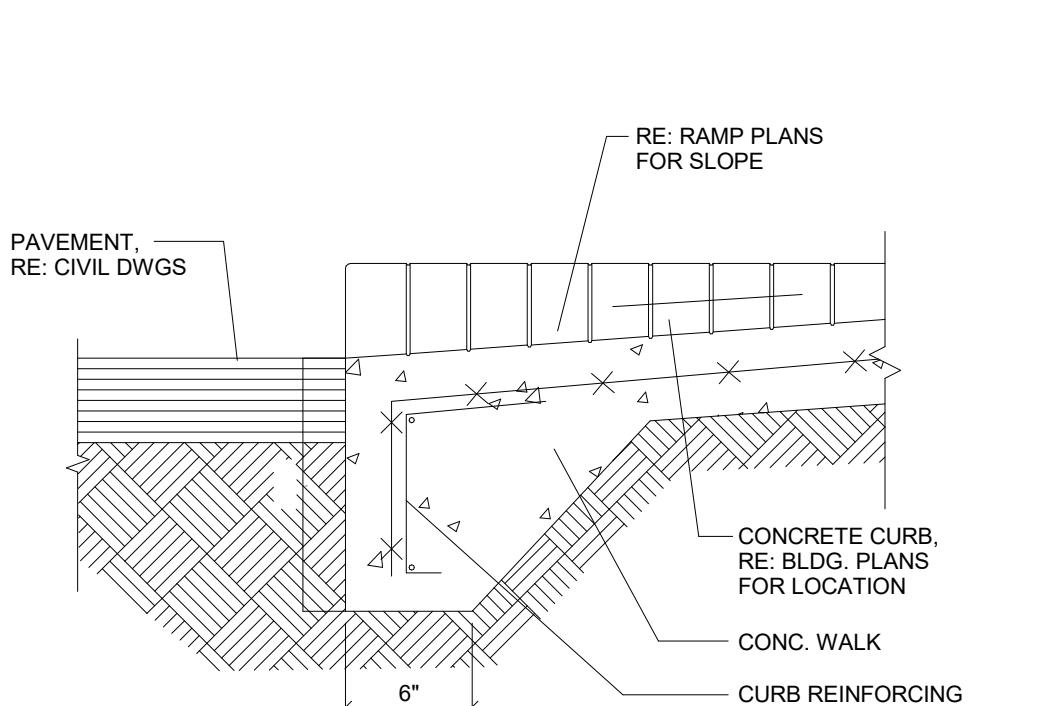
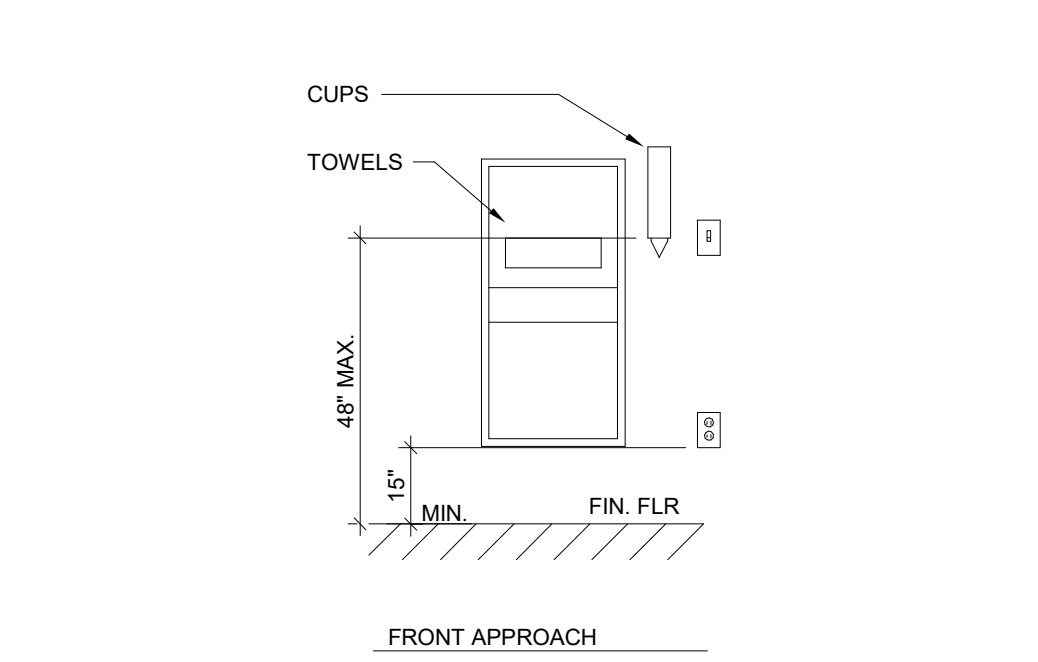
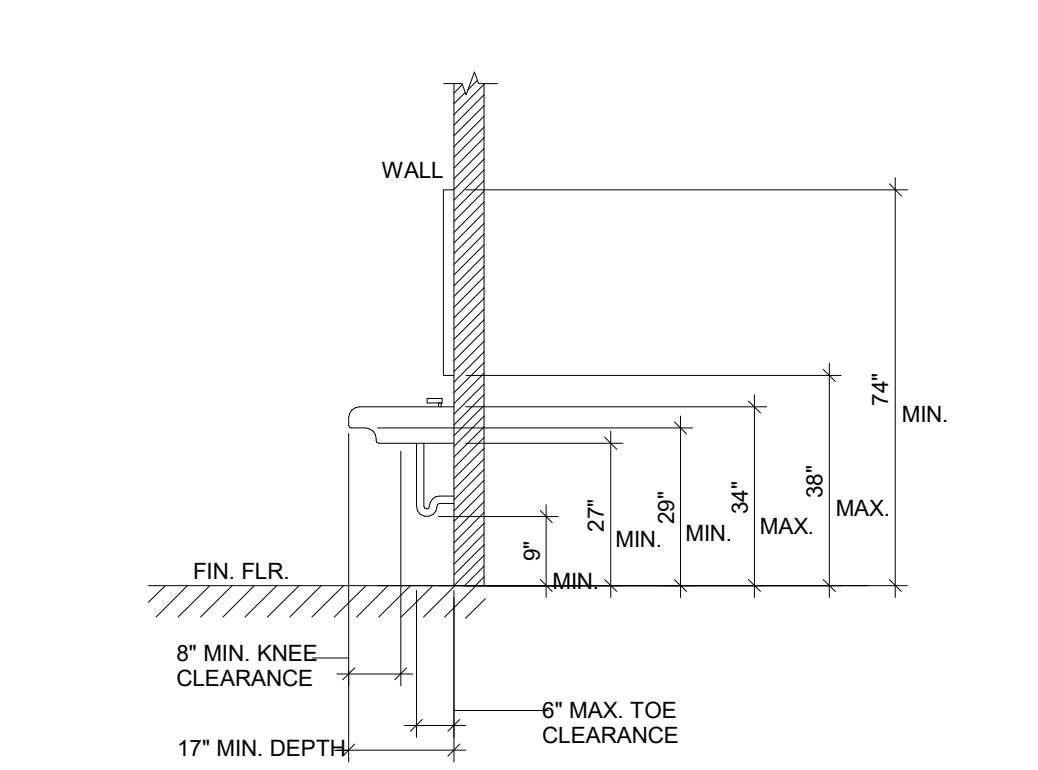
- 4.34.2 Clear Floor Space
A clear floor space at least 30" by 48" that allows either a forward or parallel approach by a person using a wheelchair shall be provided.
Exception: Drive-up-only ATM's need not comply with this item.
- 4.27.3 Height
Where a forward reach is required, controls and operating mechanisms shall be 48" maximum and 15" minimum above the floor. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20-25" deep, maximum height shall be 48".
Where a side reach is provided, controls and operating mechanisms shall be 54" maximum and 9" minimum above the floor. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.
Exception: Drive-up-only ATM's need not comply with this item.

- 4.27.4 Controls and Operating Mechanisms
Shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
The force required to activate controls shall be no greater than 5 lbf.

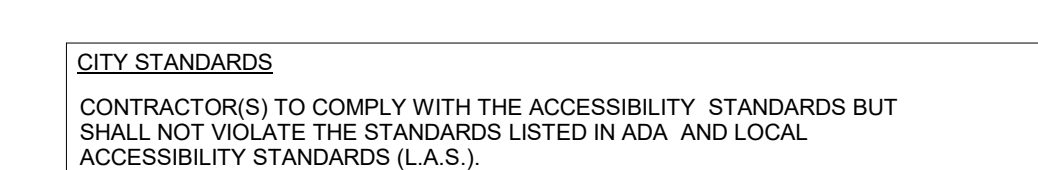
- 4.34.3 Clearances and Reach Ranges
Free standing or built-in units not having a clear space under them shall provide for a parallel approach and both a forward and side reach to the unit.
Exception: Drive-up-only ATM's need not comply with this item.
Independently usable by persons with vision impairments.
4.34.4 Equipment for Persons with Vision Impairments
Instructions and all information for use shall be made accessible to and notes/sketches:

REACH DEPTH	MAXIMUM HEIGHT	REACH DEPTH	MAXIMUM HEIGHT	REACH DEPTH	MAXIMUM HEIGHT
IN INCHES	IN INCHES	IN INCHES	IN INCHES	IN INCHES	IN INCHES
10 OR LESS	54	15	51	20	48 1/2
11	53 1/2	16	50 1/2	21	47 1/2
12	53	17	50	22	47
13	52 1/2	18	49 1/2	23	46 1/2
14	51 1/2	19	49	24	46

NOTE : ABOVE DOES NOT APPLY TO DRIVE UP MACHINES



TYPICAL HANDICAP RAMP SECTION



TYPICAL HANDICAP RAMP PLAN

TYPICAL HANDICAP SIGNAGE

TYPICAL HANDICAP SIGNAGE

TYPICAL HANDICAP SIGNAGE

TYPICAL HANDICAP SIGNAGE

TYPICAL HANDICAP SIGNAGE

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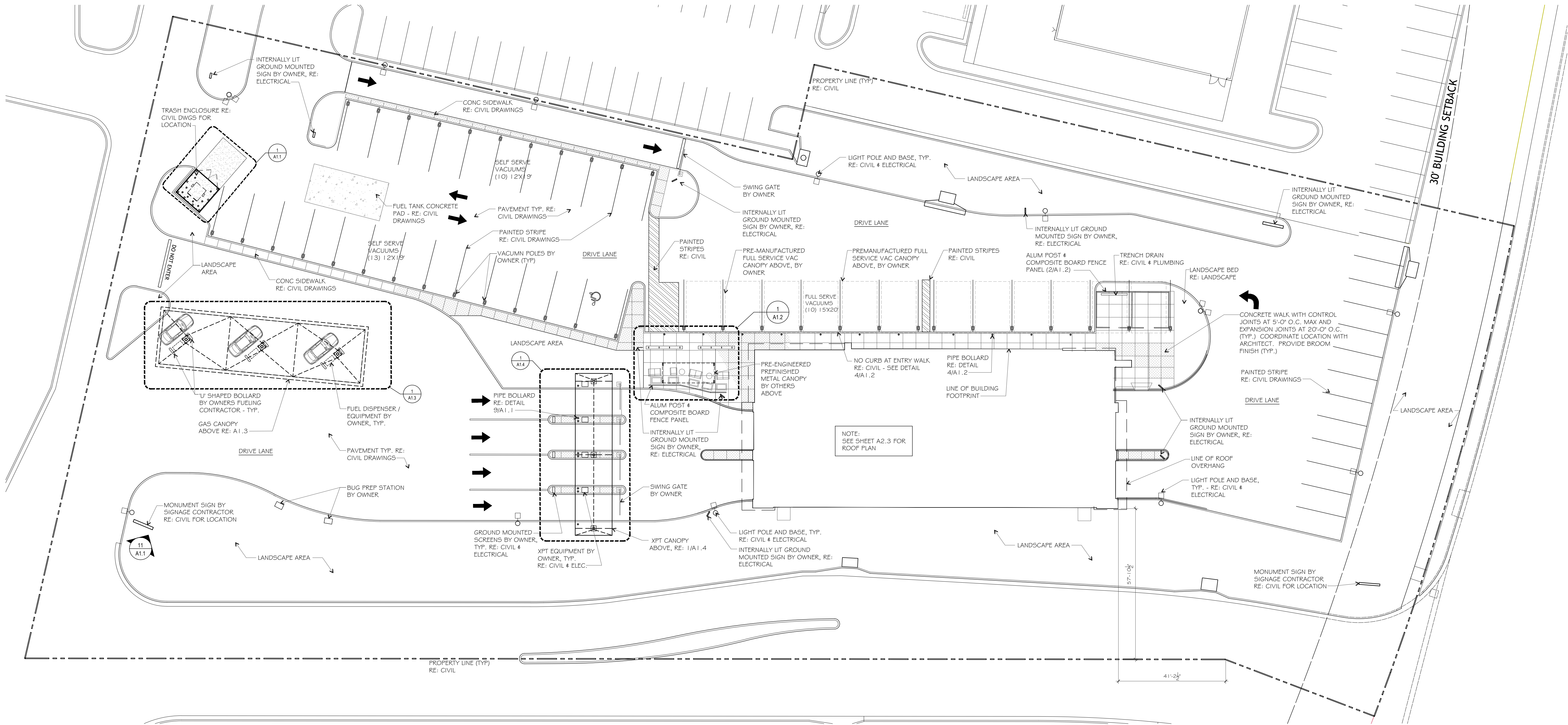
TYPICAL HANDICAP SIGNAGE

TYPICAL HANDICAP SIGNAGE

TYPICAL HANDICAP SIGNAGE

TYPICAL HANDICAP SIGNAGE

TYPICAL HANDICAP SIGNAGE



1 ARCHITECTURAL SITE PLAN
1"=20'

- REFERENCE CIVIL DRAWINGS FOR:
- SITE LAYOUT
 - PAVEMENT LAYOUT, DETAILS AND SPEC'S
 - CURB AND GUTTER LAYOUT AND DETAILS
 - PAVEMENT STRIPING
 - RAMP DETAILS
 - SITE (DIVISION "2") SPECIFICATIONS
- REFERENCE LANDSCAPE DRAWINGS FOR:
- PLANT LAYOUT
 - PLANT SPECIES
- REFERENCE ELECTRICAL DRAWINGS FOR:
- LIGHTING LOCATIONS
 - FIXTURE SPECIFICATIONS

SITE PLAN NOTES:

1. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT ELECTRIC TO KIOSK AND GATE. VERIFY GATE LOCATION WITH CIVIL.
2. ALL IRRIGATION FOR LANDSCAPE BEDS AND SURROUNDING GRASS AREAS SHALL BE DESIGN BUILD.
3. VACUUM AREA CONTRACTOR TO PROVIDE CONDUIT TO VACUUM STATION RE: ELECTRICAL DRAWINGS. VACUUMS PROVIDED AND INSTALLED BY OWNER.
4. GC TO COORDINATE WITH OWNER SUPPLIED VACUUM LINES AND FOOTINGS.
5. XPT ISLANDS TO BE 42" EDGE OF CURB TO EDGE OF CURB
6. PROVIDE HEAVE SLABS AT ALL EXTERIOR DOORS. HEAVE SLABS TO BE LEAN CONCRETE TO 3'-0" OUT FROM WALL TO FROST DEPTH FOR WIDTH OF DOOR. CONCRETE SLAB DOWELED TO STRUCTURE RE: STRUCTURAL DRAWINGS
7. GC TO COORDINATE WITH OWNER SUPPLIED VACUUM LINES AND FOOTINGS.

STRUCTURAL ENGINEER

KREHER ENGINEERING, INC.
208 NORTH MAIN STREET,
SUITE 11
COLUMBIA, IL 62236
PHONE: 618.281.8505
CONTACT: JIM KREHER

MEP ENGINEERING

G & W ENGINEERING
138 WELDON PARKWAY
MARYLAND HEIGHTS, MO 63043
PHONE: 314.469.3737
CONTACT:

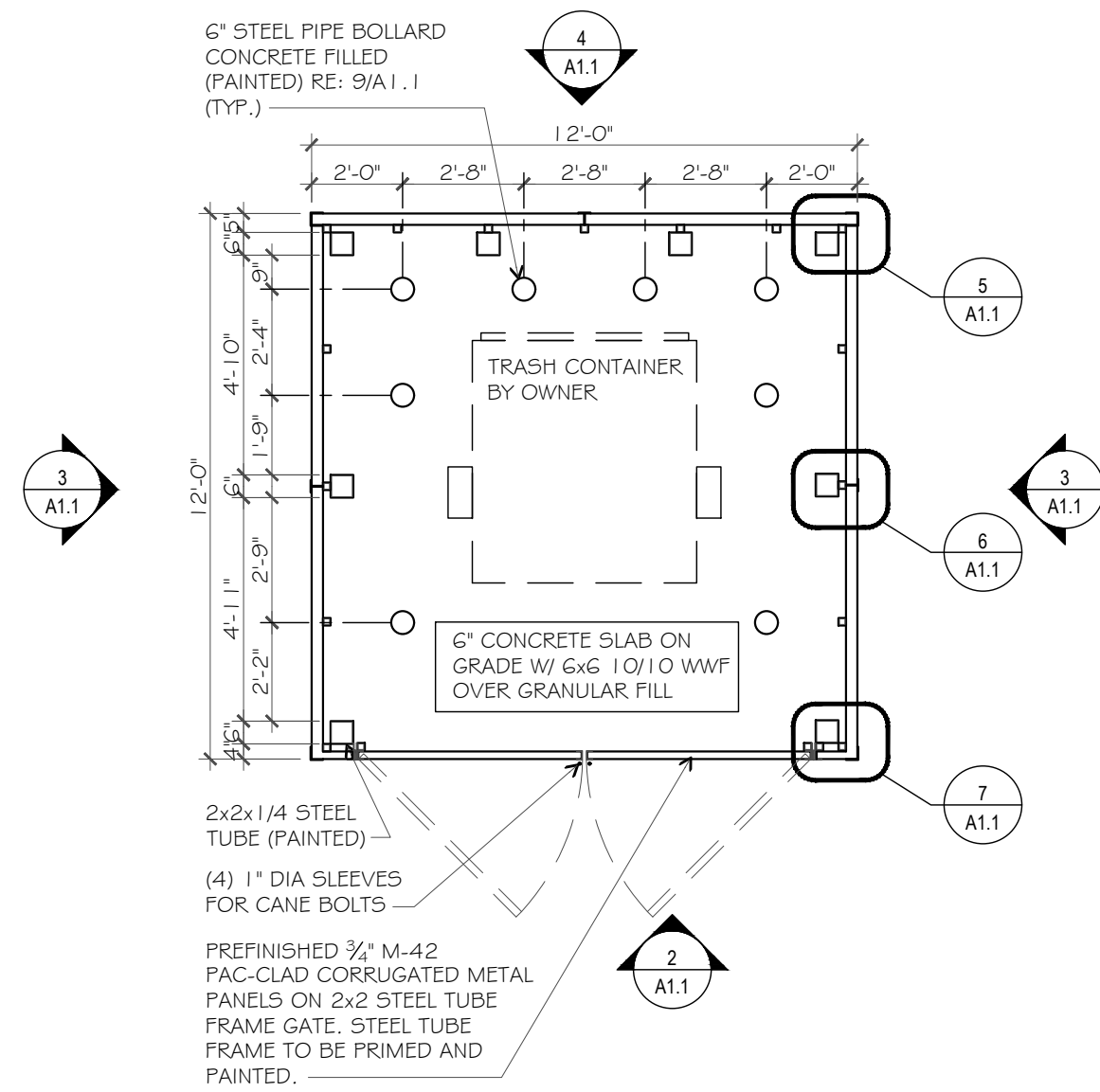
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Revisions:

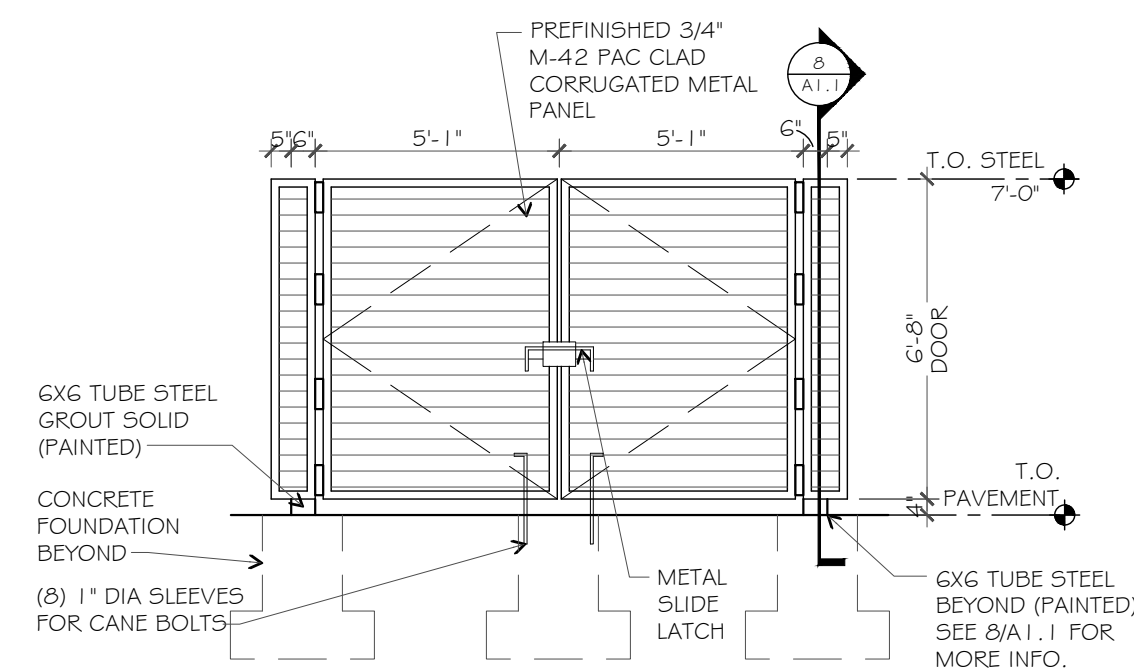
Description: Date:
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SITE PLAN

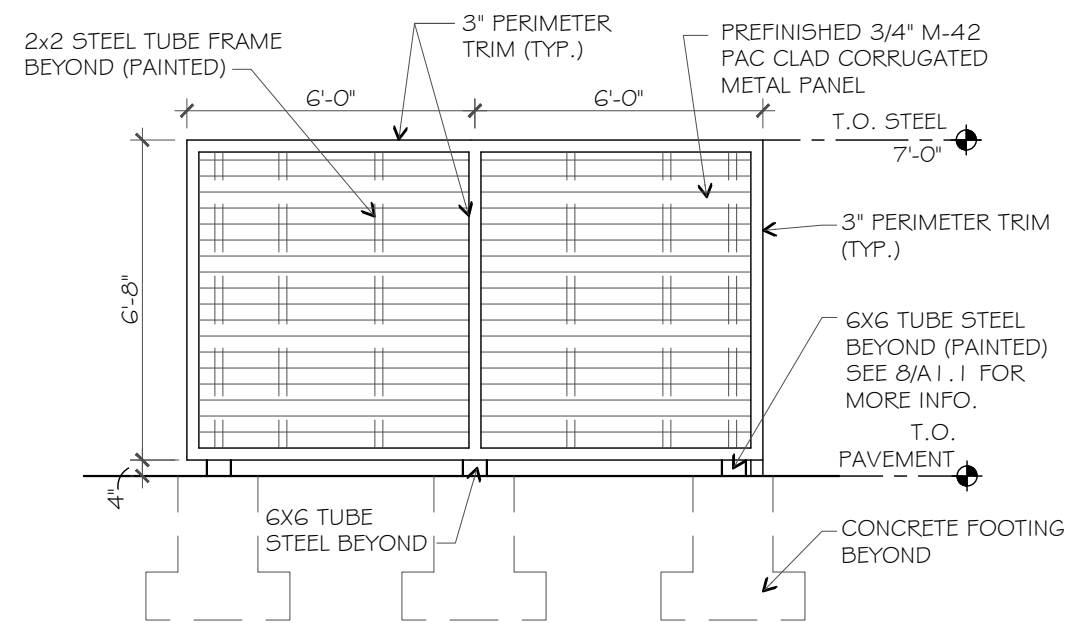
A1.0



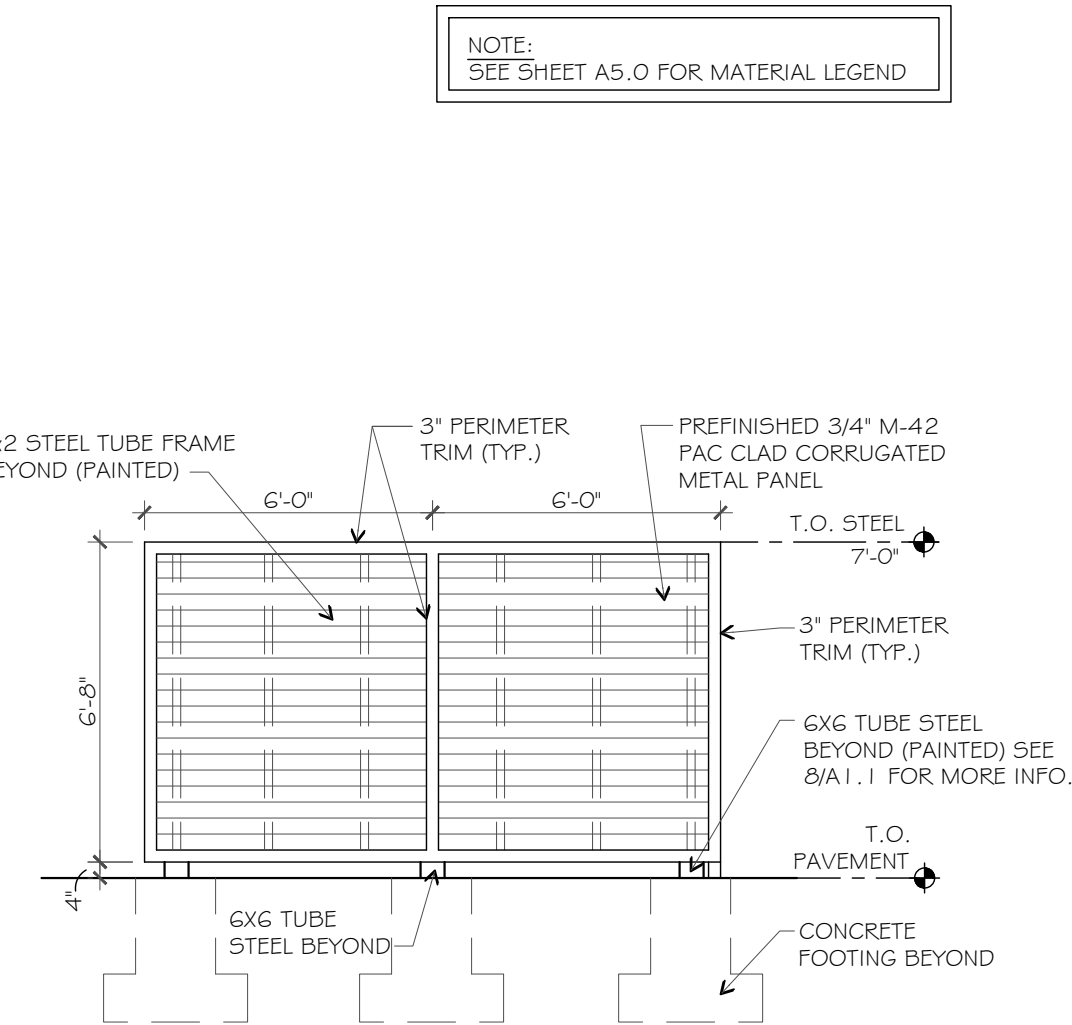
1 TRASH ENCLOSURE PLAN
1/4" = 1'-0"



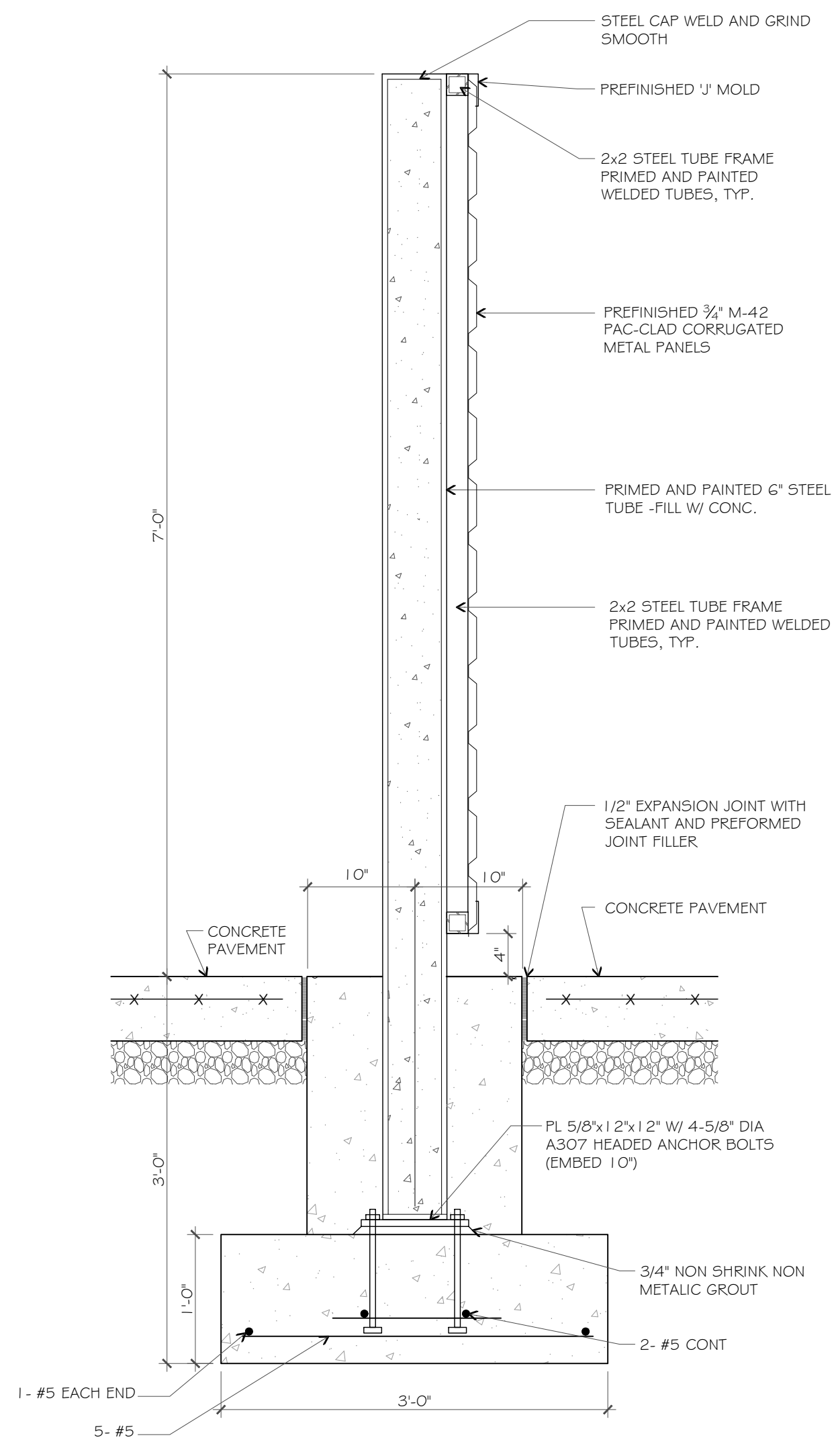
2 TRASH ENCLOSURE FRONT ELEVATION
1/4" = 1'-0"



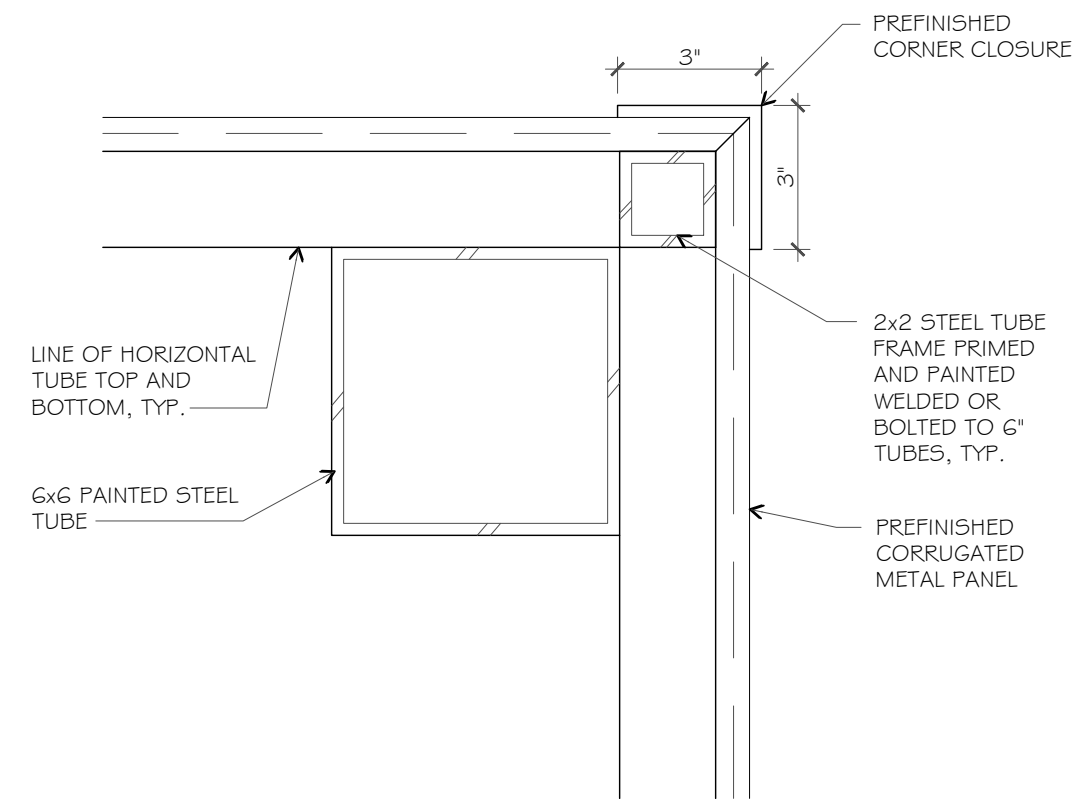
3 TRASH ENCLOSURE SIDE ELEVATION
1/4" = 1'-0"



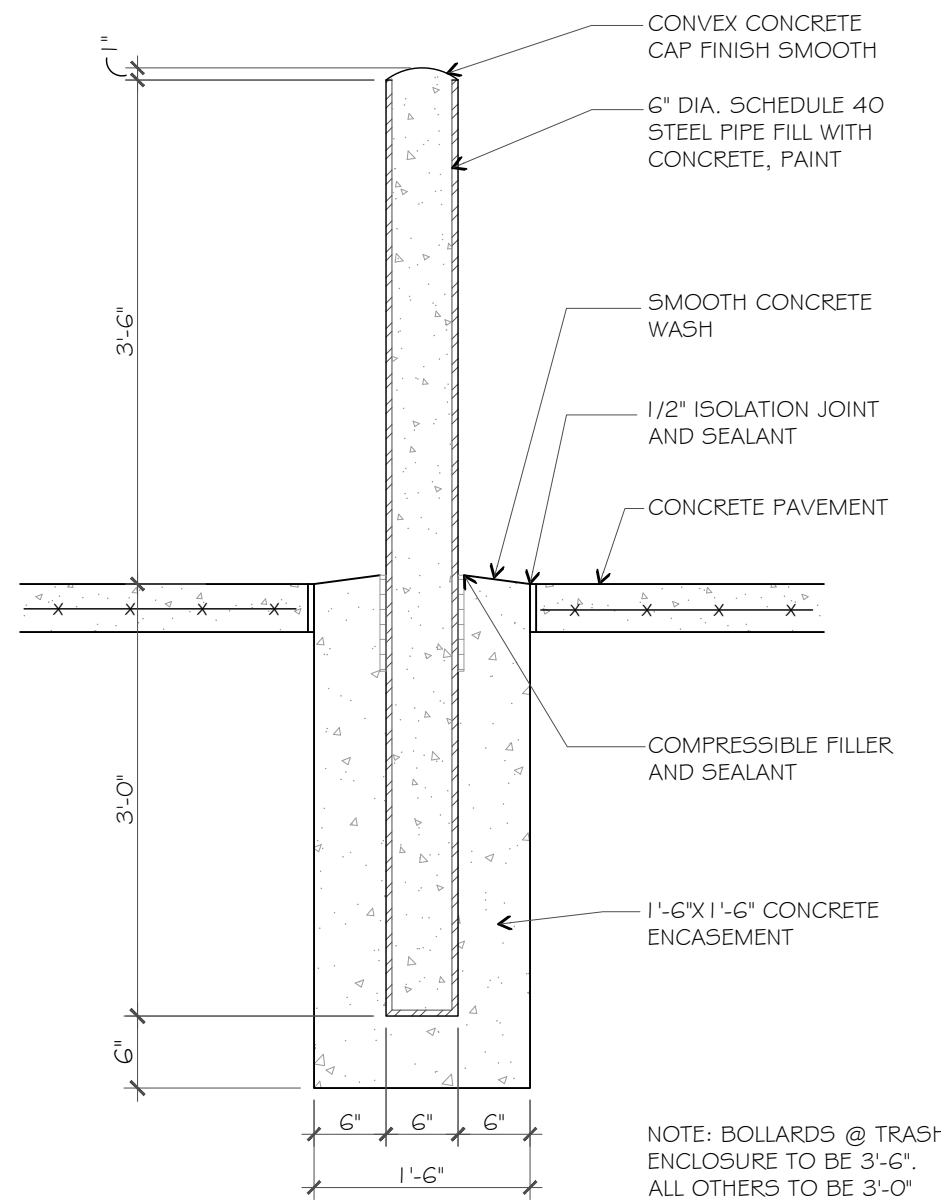
4 TRASH ENCLOSURE REAR ELEVATION
1/4" = 1'-0"



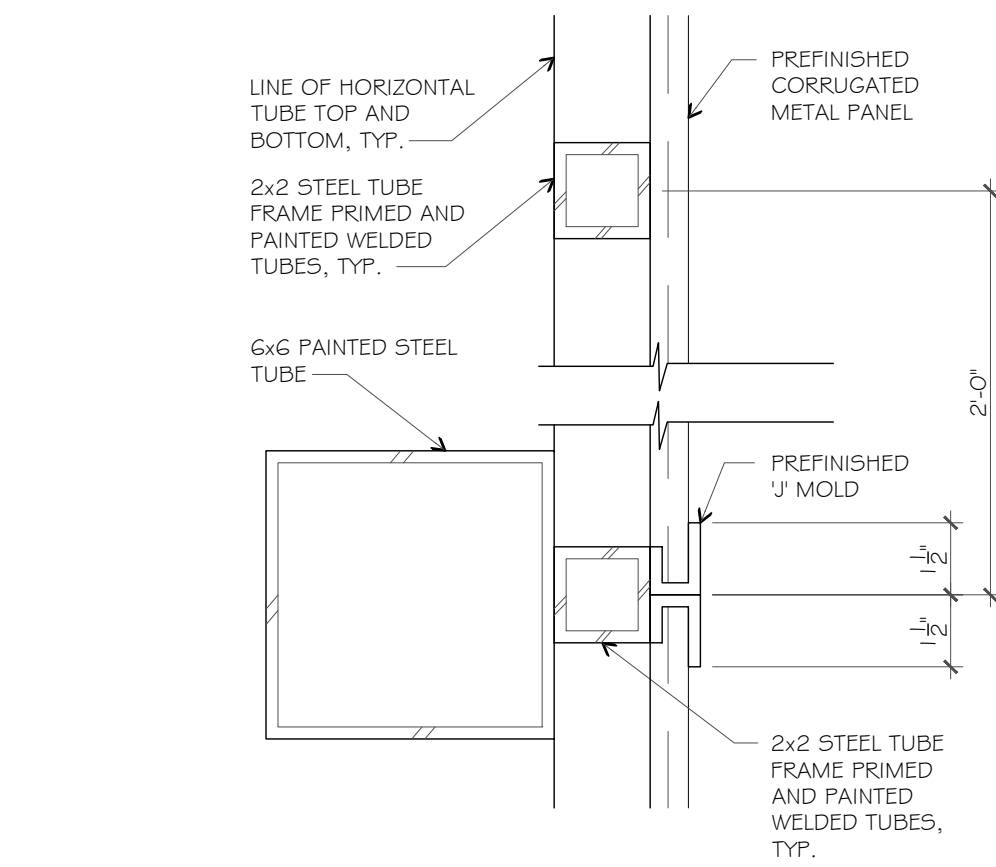
8 STEEL SUPPORT TUBE TYP DETAIL
1" = 1'-0"



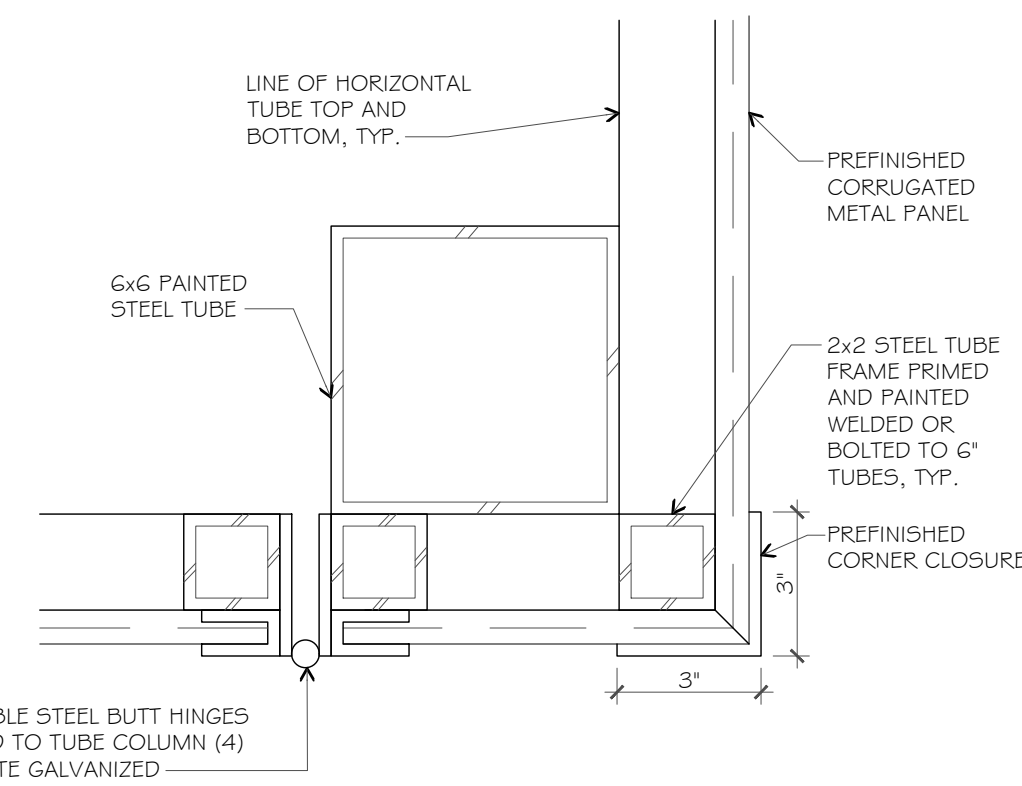
5 PLAN DETAIL
3" = 1'-0"



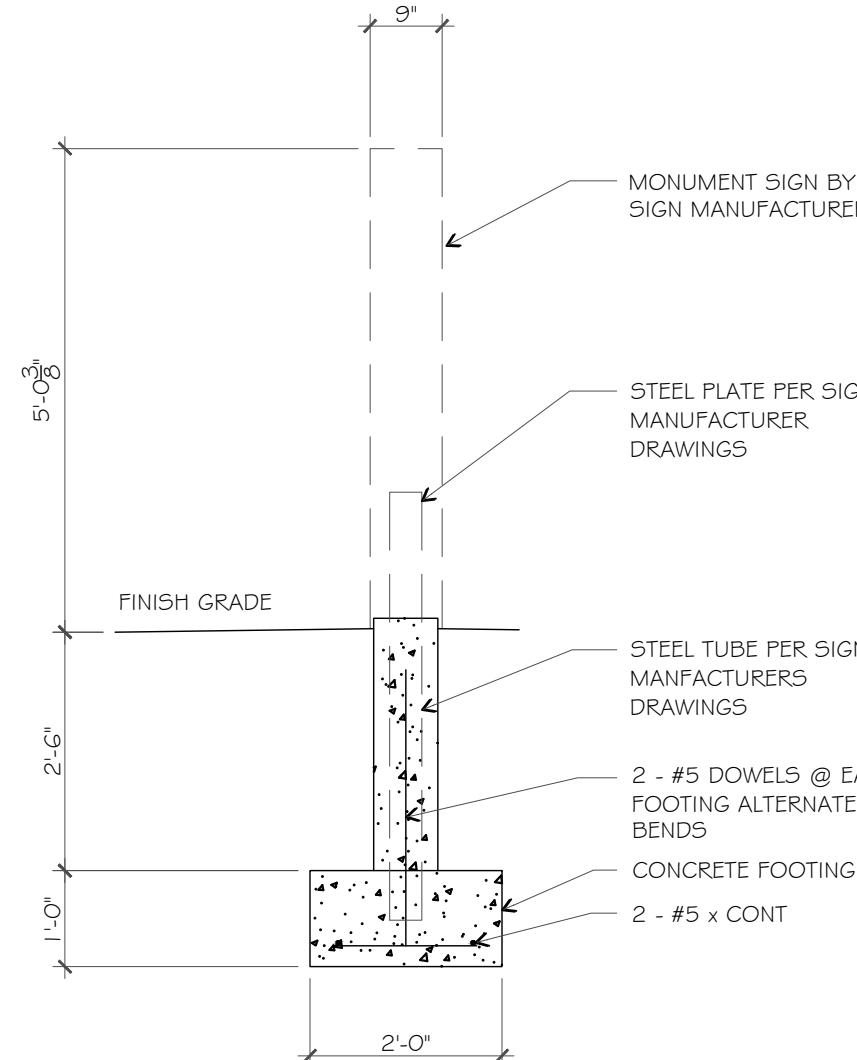
9 PIPE BOLLARD SECTION
3/4" = 1'-0"



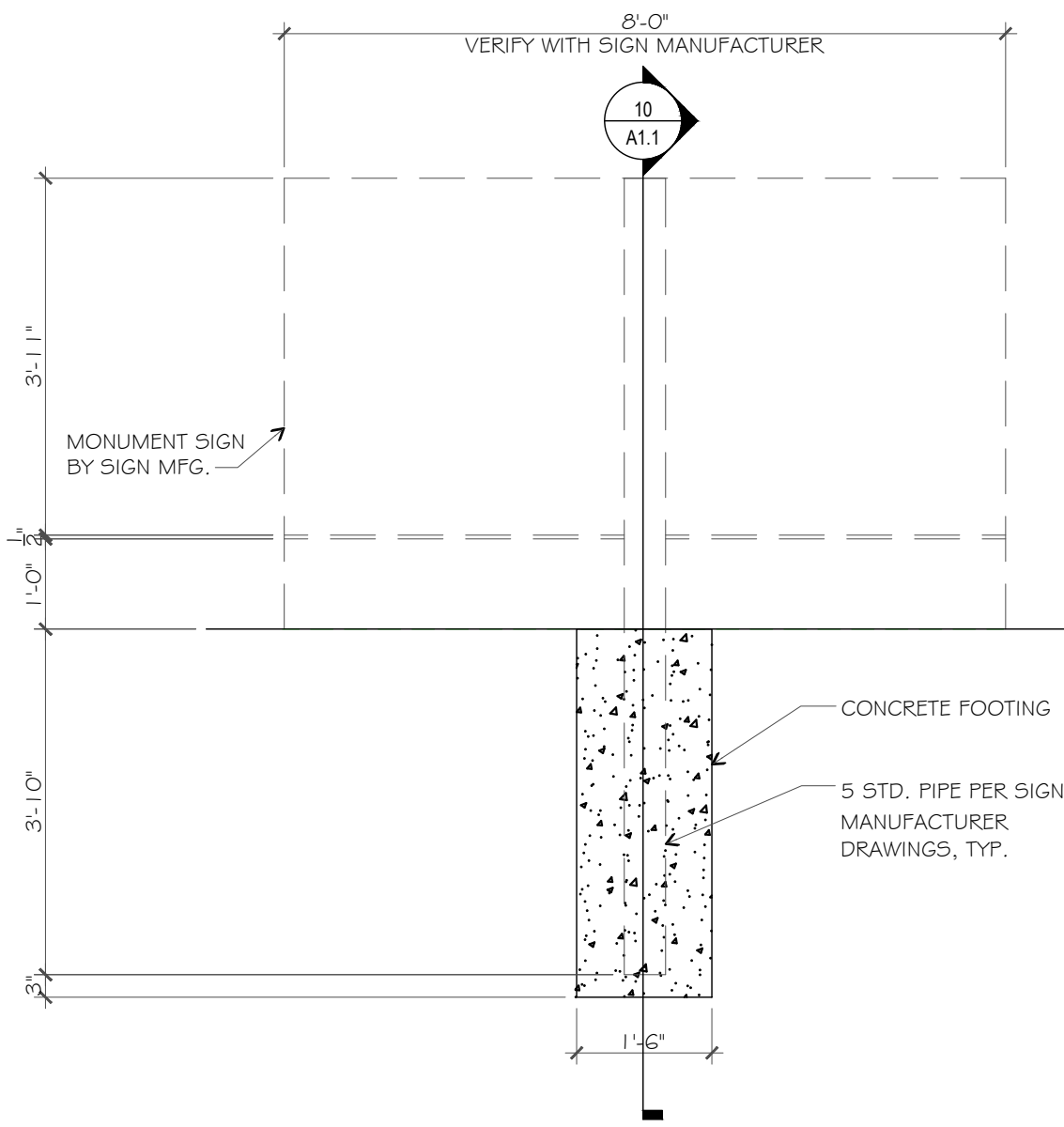
6 PLAN DETAIL
3" = 1'-0"



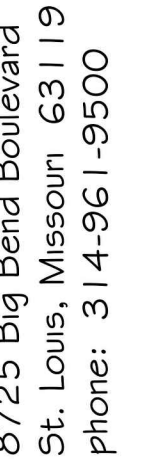
7 PLAN DETAIL
3" = 1'-0"



10 MONUMENT SIGN SECTION
1/2" = 1'-0"

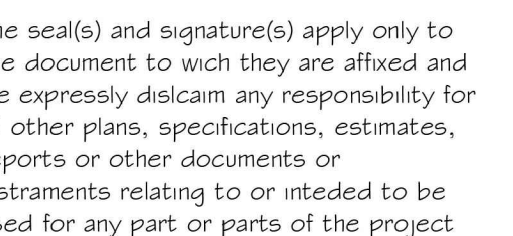


11 MONUMENT SIGN ELEVATION
1/2" = 1'-0"



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 38 WELDON PARKWAY
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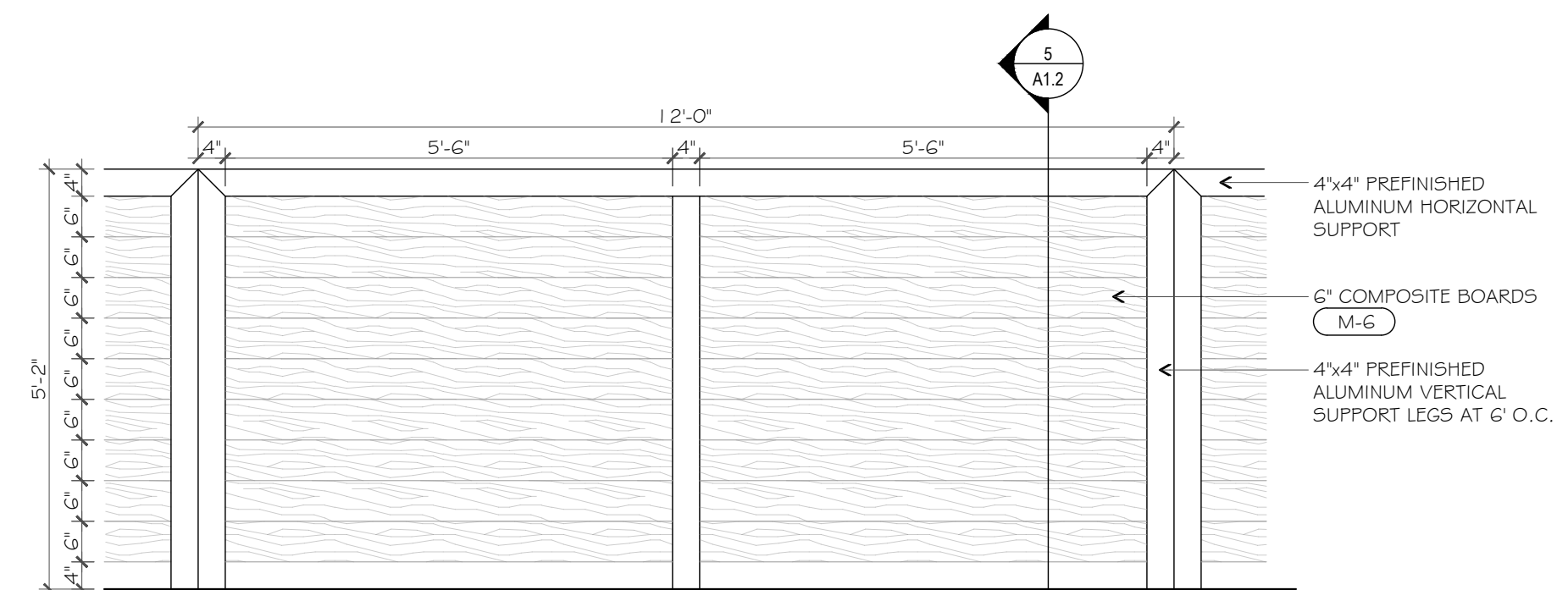


Description: _____ Date: _____

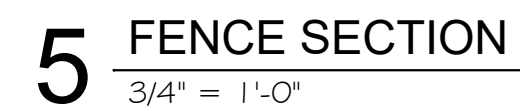
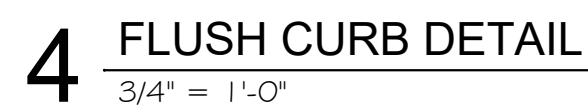
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2 PARTIAL FENCE ELEVATION



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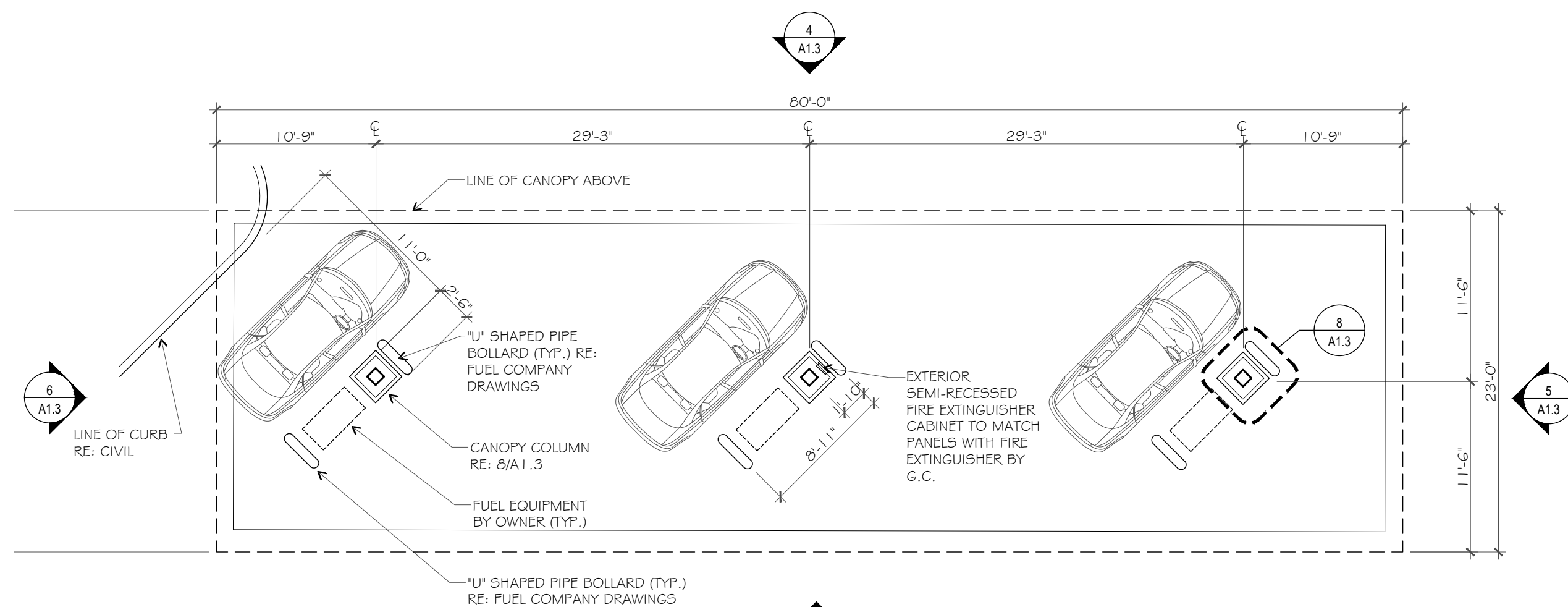
Revisions:

Description: Date:
Rev A NO CHANGES THIS SHEET

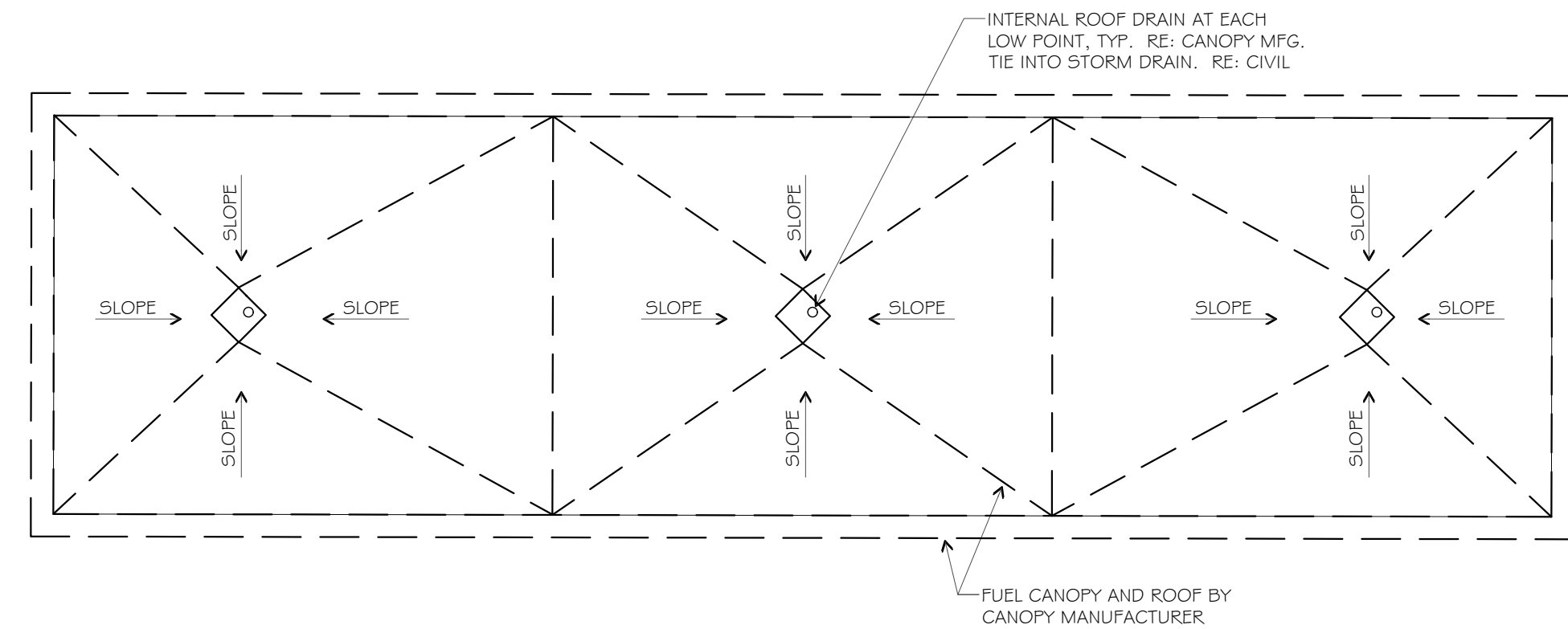
FUEL CANOPY

A1.3

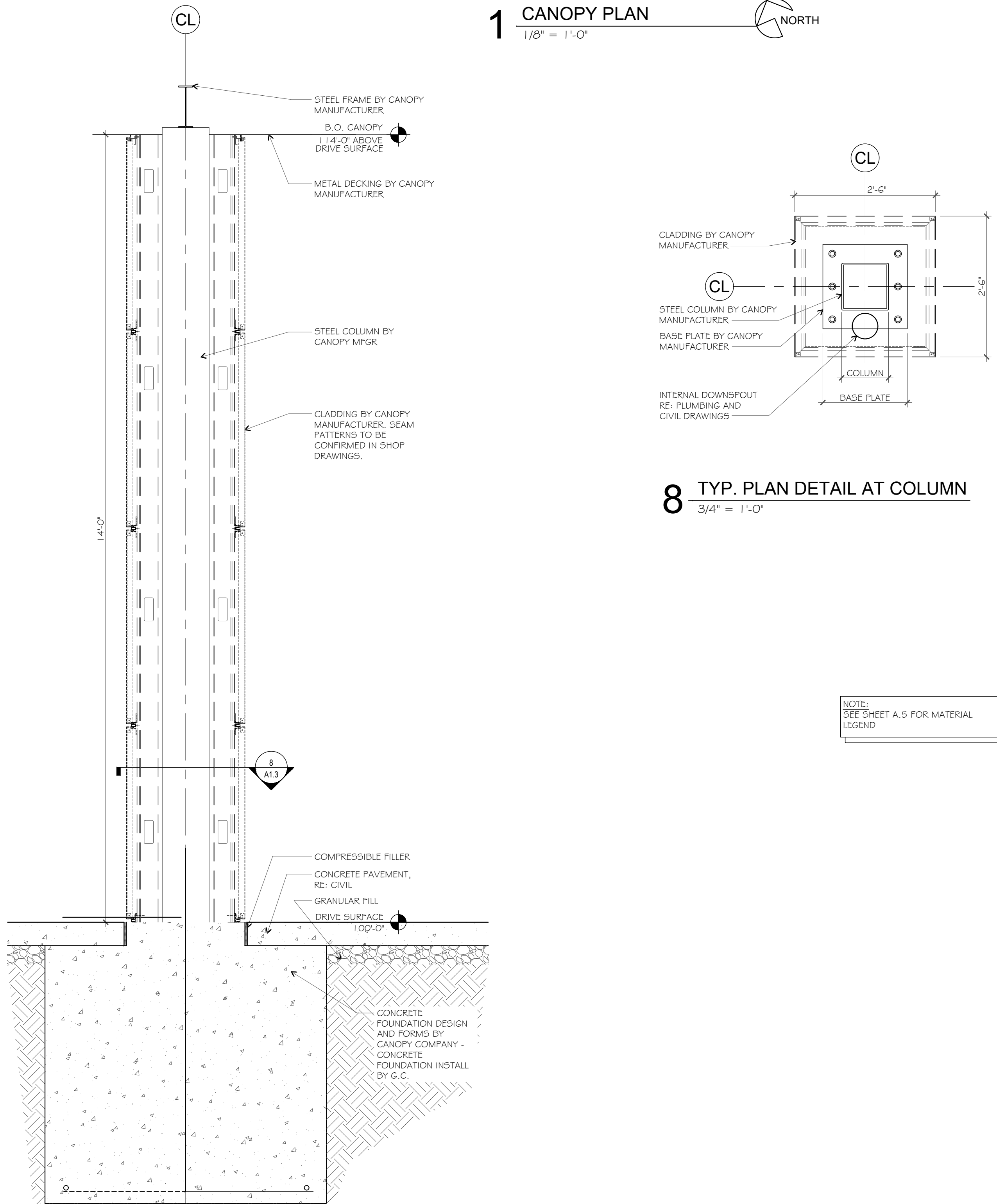
Issue Date: 05/31/2024



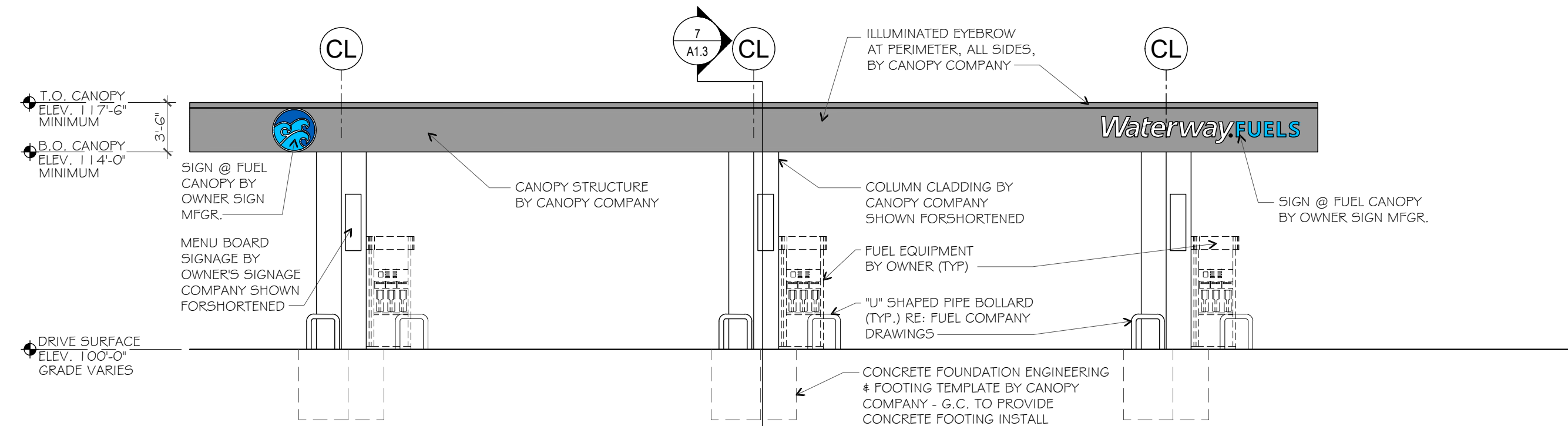
1 CANOPY PLAN
1/8" = 1'-0"



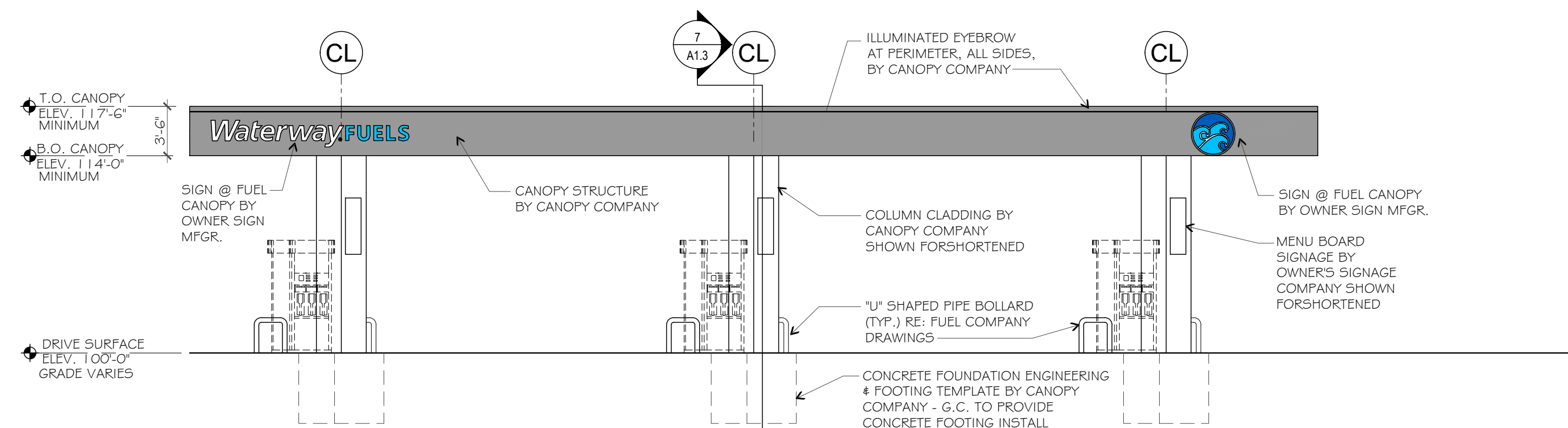
2 ROOF PLAN (FUEL CANOPY)
1/8" = 1'-0"



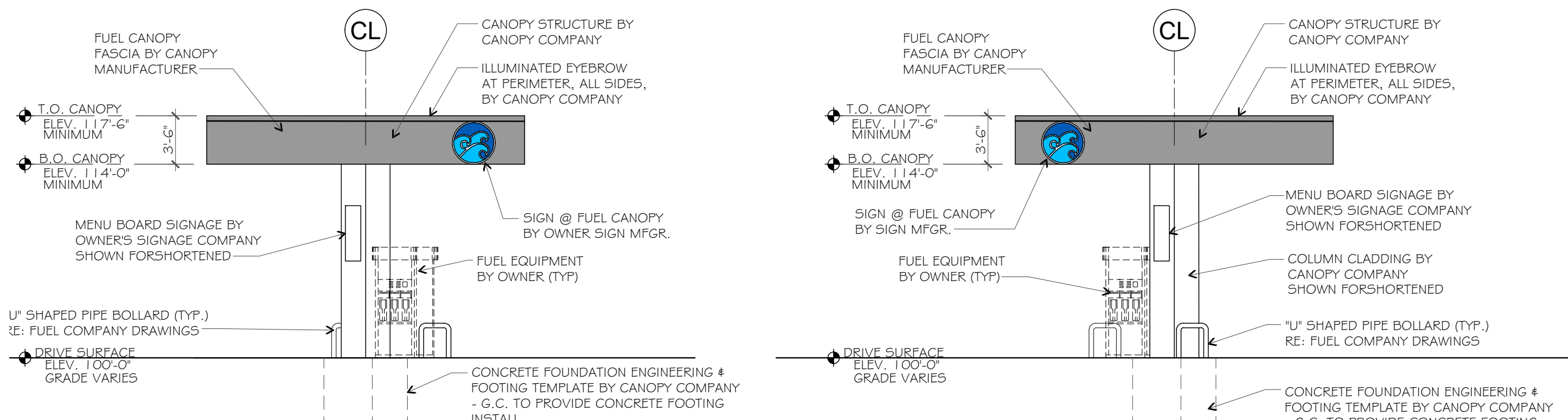
8 TYP. PLAN DETAIL AT COLUMN
3/4" = 1'-0"



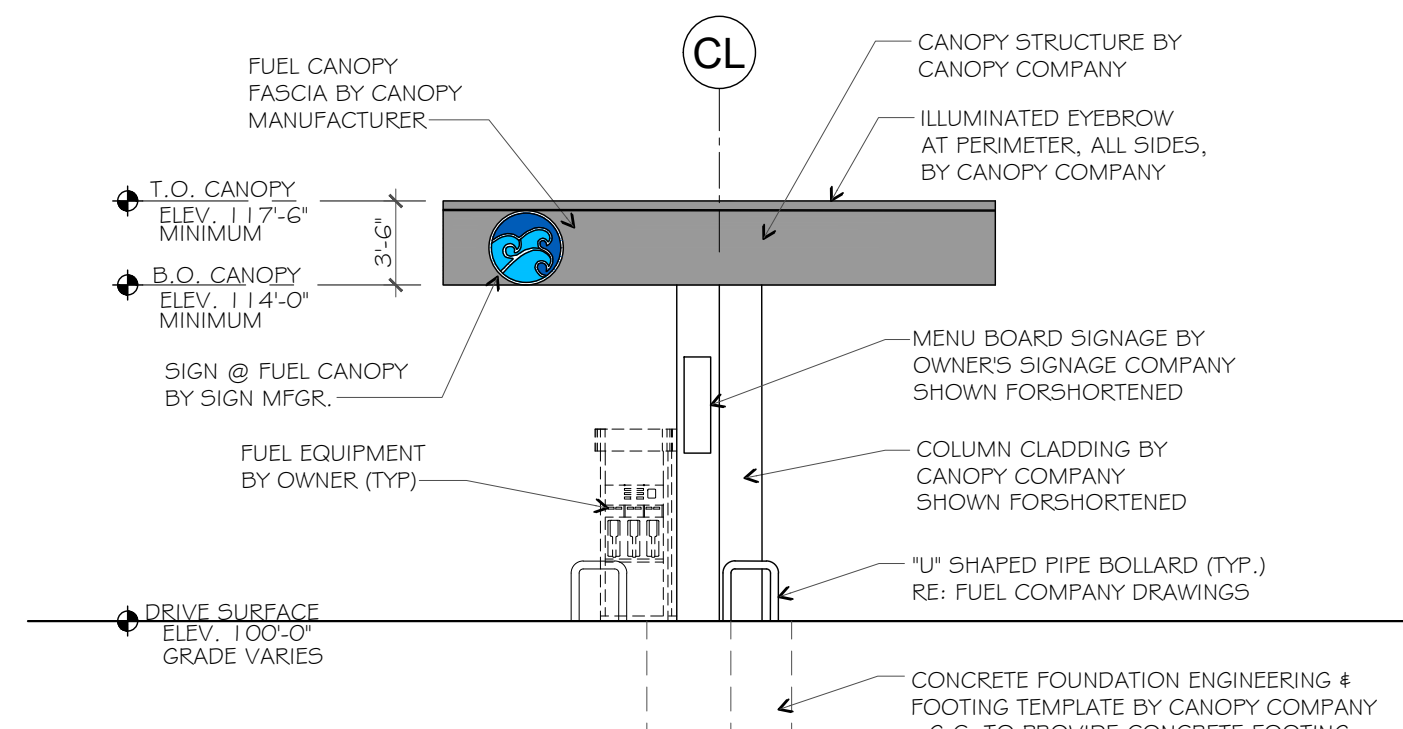
3 CANOPY ELEVATION
1/8" = 1'-0"



4 CANOPY ELEVATION
1/8" = 1'-0"

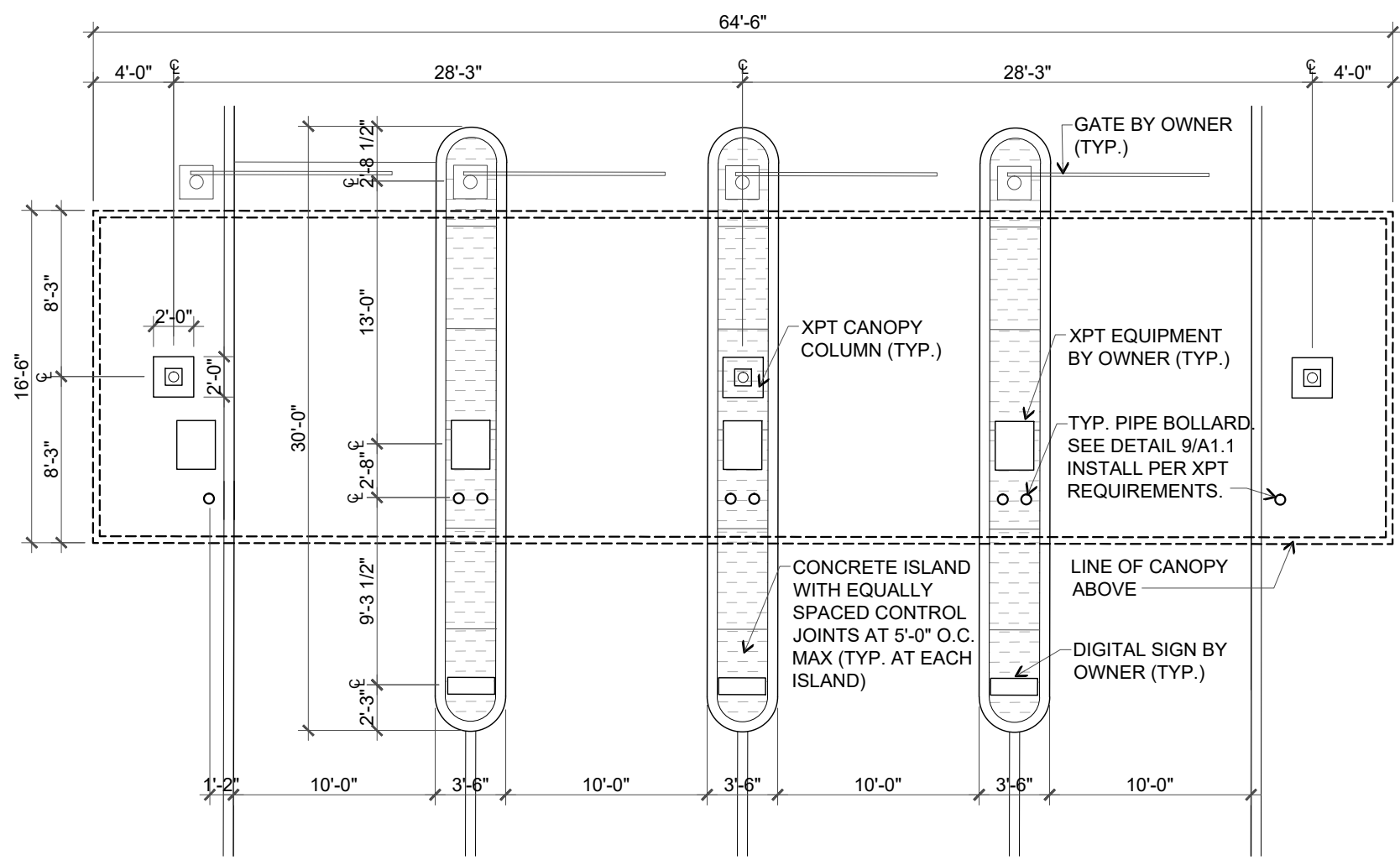


5 CANOPY ELEVATION
1/8" = 1'-0"

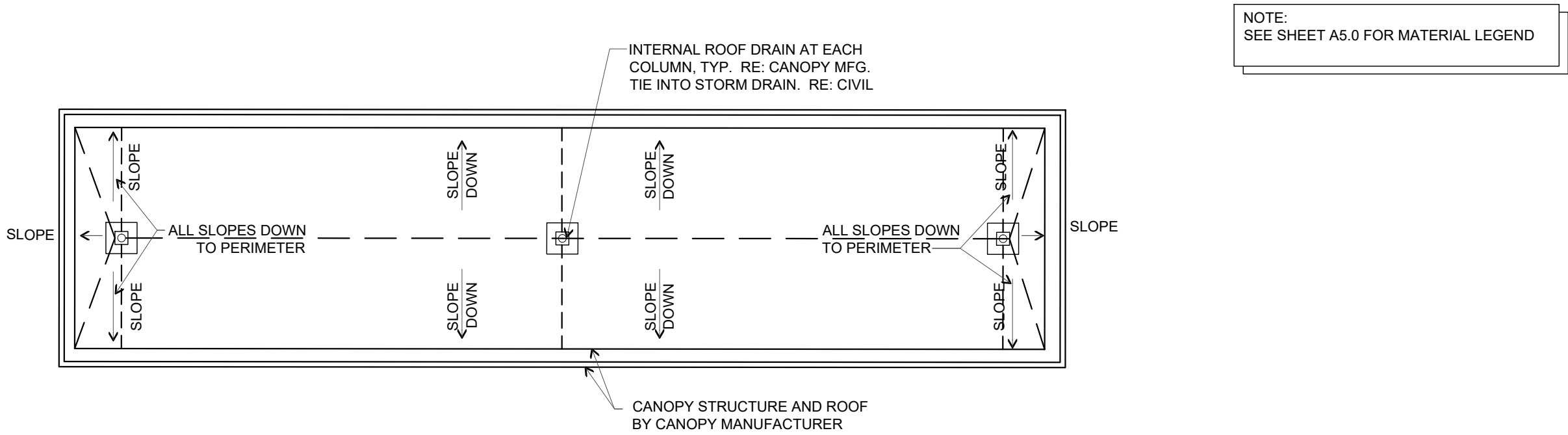


6 CANOPY ELEVATION
1/8" = 1'-0"

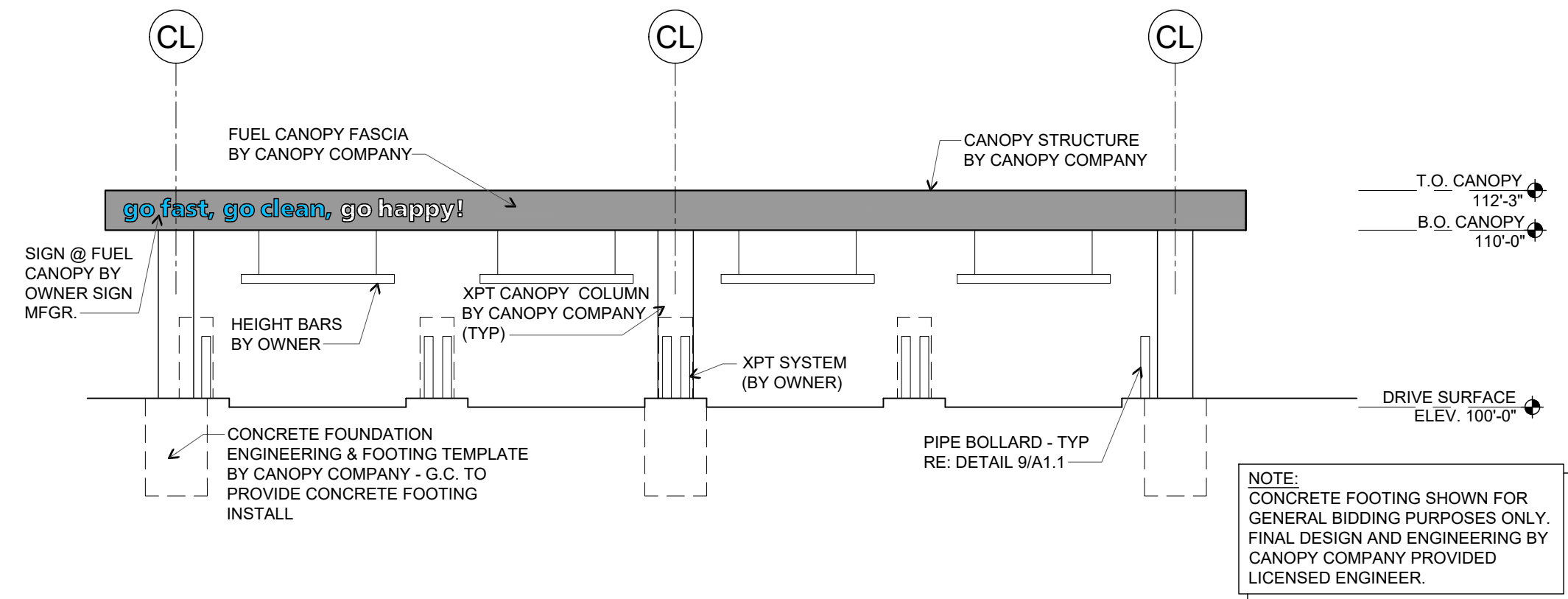
7 SECTION AT COLUMN
3/4" = 1'-0"



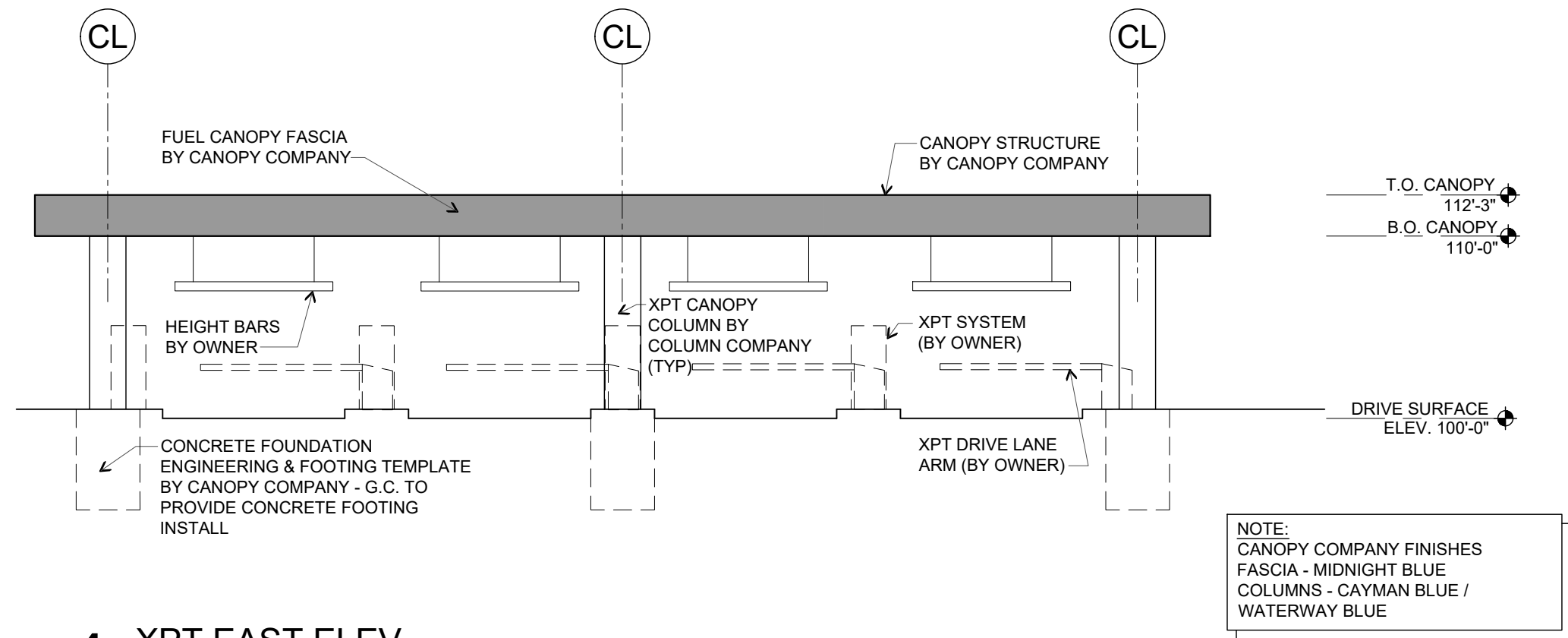
1 XPT CANOPY PLAN
1/8" = 1'-0" NORTH



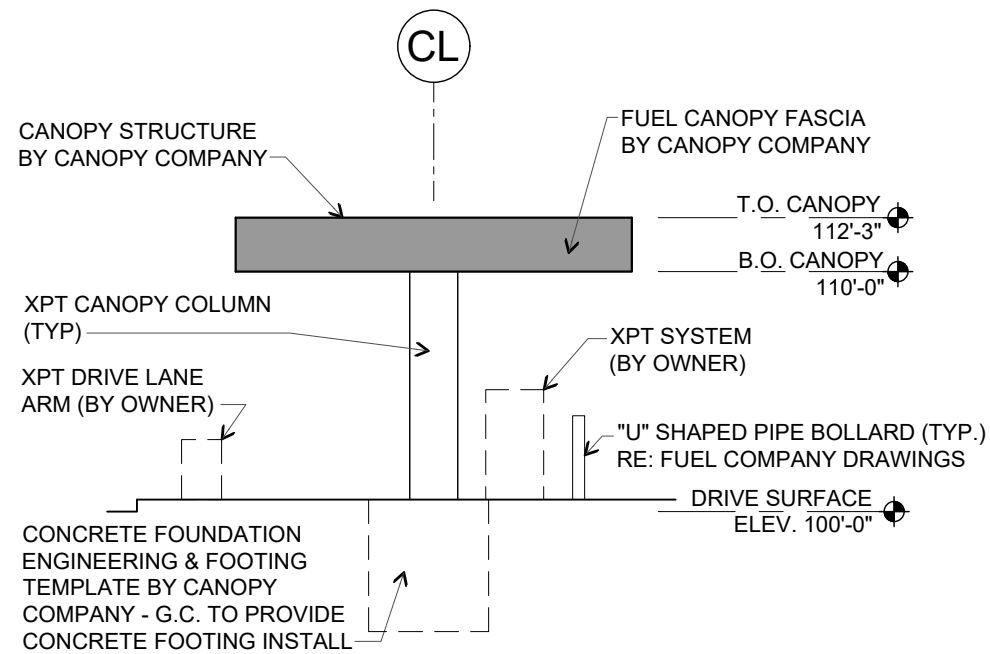
2 ROOF PLAN (XPT CANOPY)
1/8" = 1'-0" NORTH



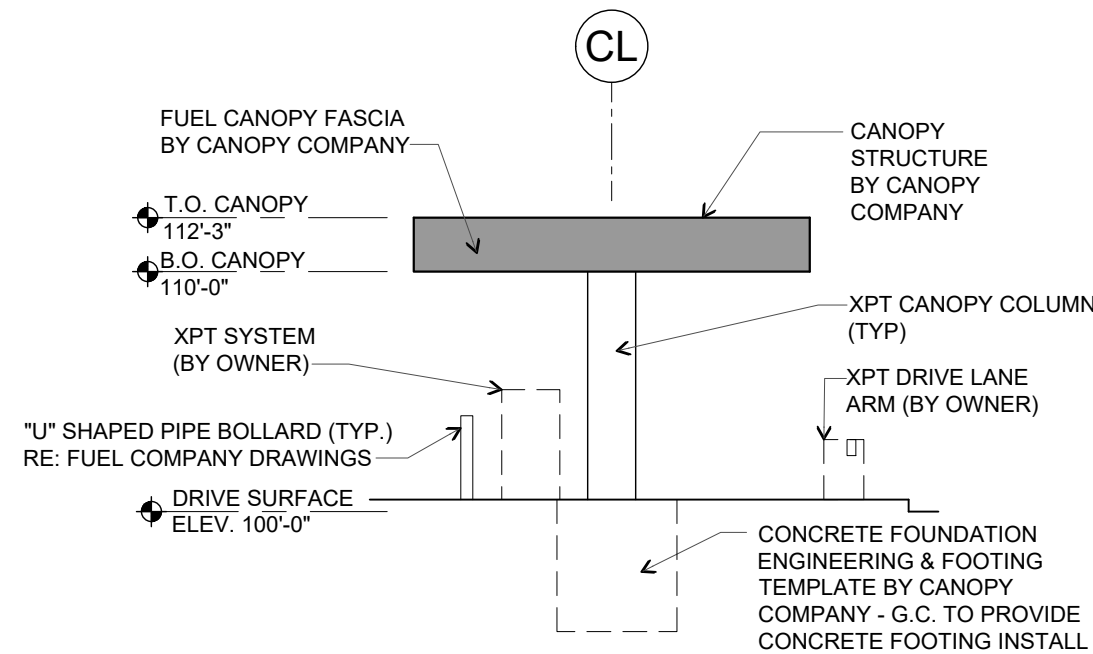
3 XPT WEST ELEV
1/8" = 1'-0"



4 XPT EAST ELEV
1/8" = 1'-0"



5 XPT SOUTH ELEV
1/8" = 1'-0"



6 XPT NORTH ELEV
1/8" = 1'-0"

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MEP ENGINEERING

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MARYLAND HEIGHTS, MO 63043
PHONE: 314.469.3737
CONTACT:

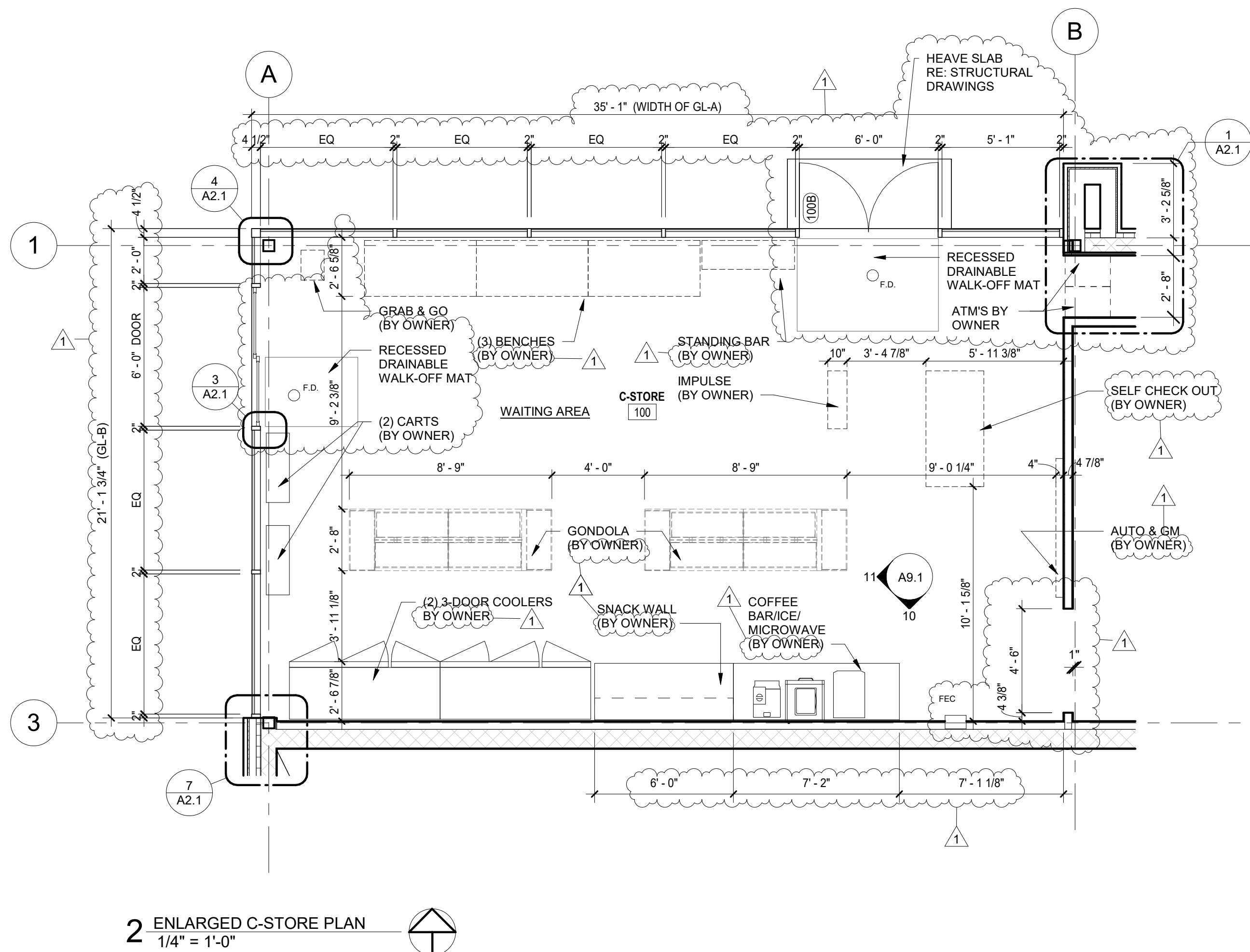
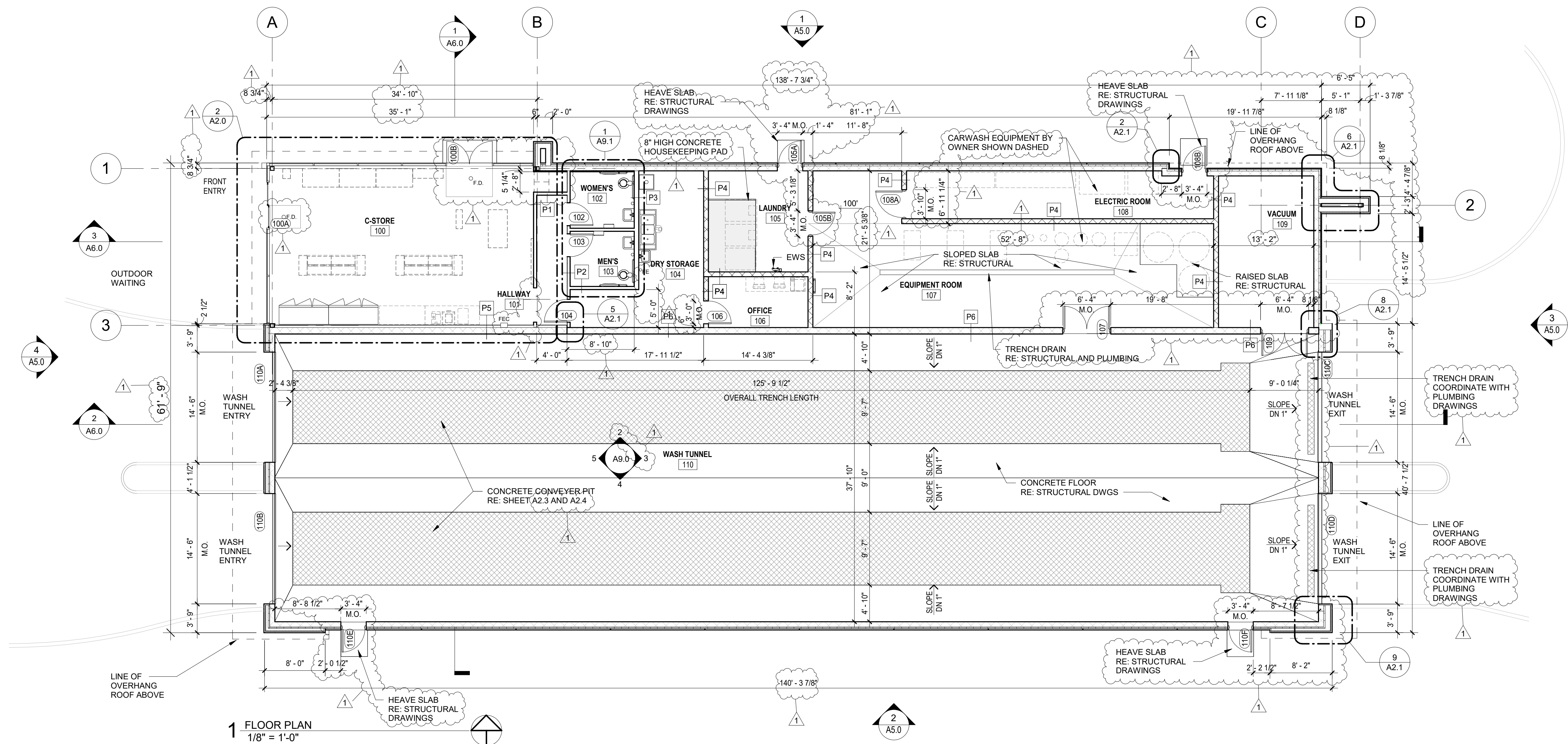
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Revisions:

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Rev A NO CHANGES THIS SHEET

XPT CANOPY AND DETAIL

A1.4



- GENERAL NOTES:**
- ALL CASEWORK PROVIDED BY OWNER AND INSTALLED BY OWNER.
 - CONTRACTOR TO COORDINATE W/ OWNER EQUIPMENT AS NOTED.
 - ALL DIMENSIONS TO FACE OF METAL OPENINGS.
 - FIRE EXTINGUISHER & FIRE EXTINGUISHER CABINET LOCATIONS SHOWN ARE TO BE CONFIRMED WITH A.H.J. ALL FINAL LOCATIONS SHALL BE CONFIRMED WITH ARCHITECT PRIOR TO INSTALLATION.
 - FE: SURFACE MOUNTED FIRE EXTINGUISHER
 - FEC: FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
 - CMU DIMENSIONS ARE NOMINAL

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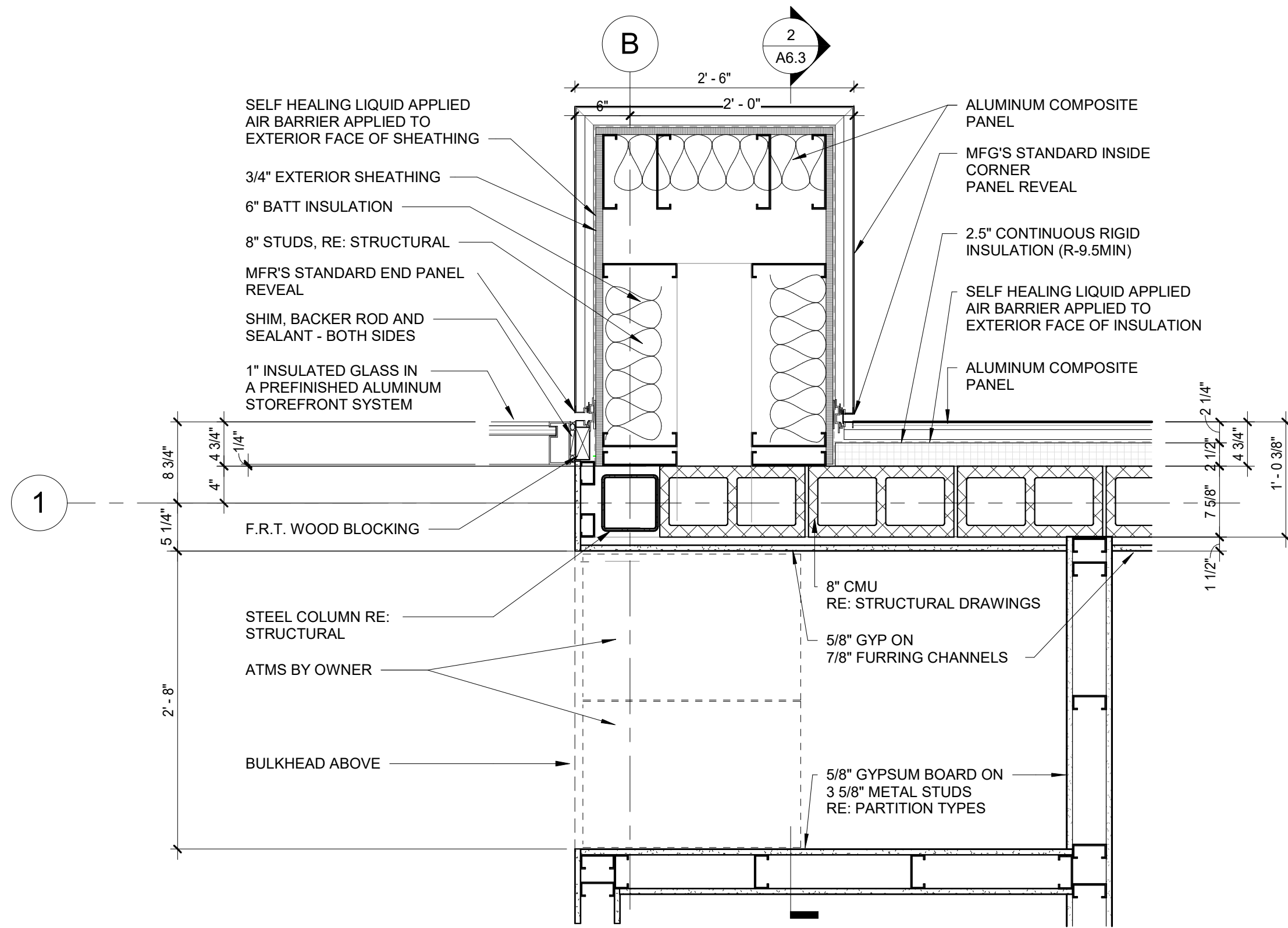
Revisions:

1 PERMIT COMMENTS 8/6/24

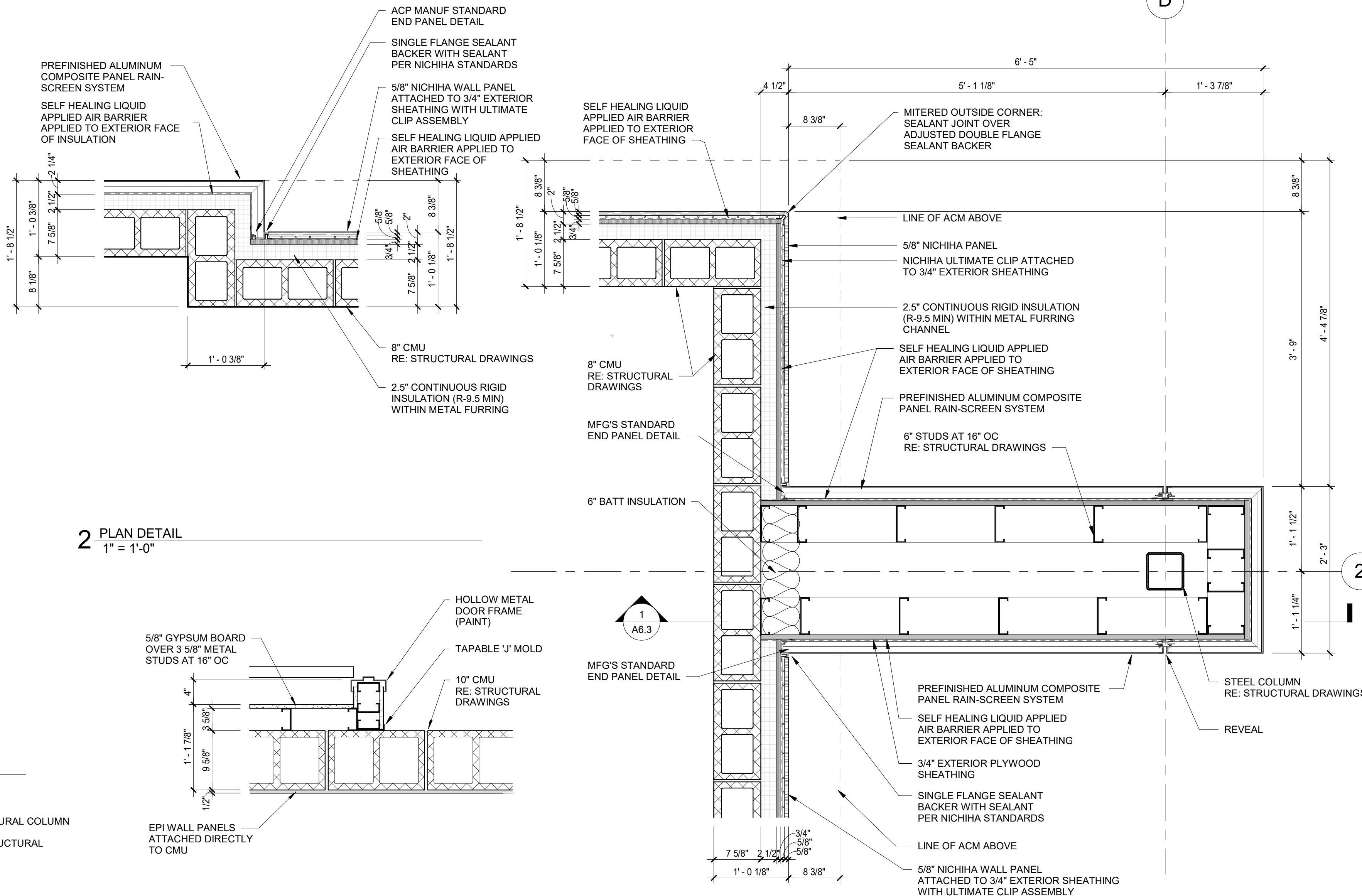
ARCHITECTURAL PLAN

A2.0

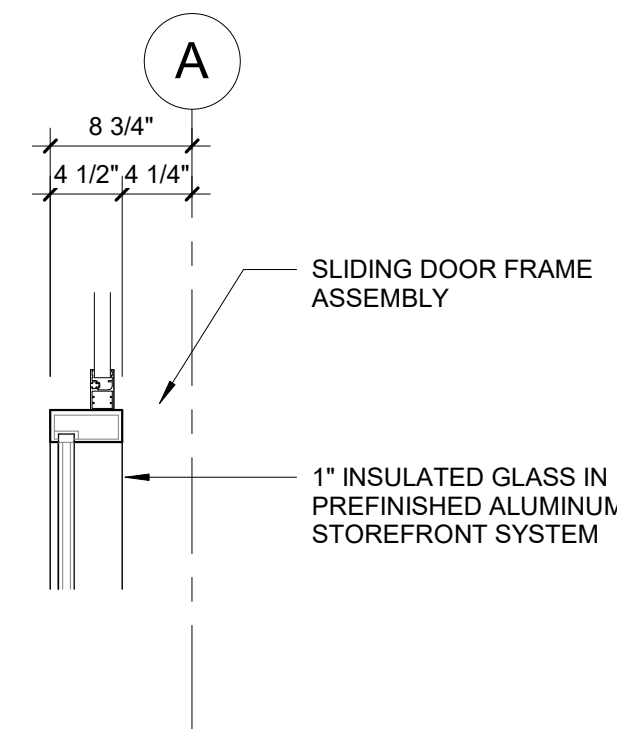
Issue Date: 05/31/2024



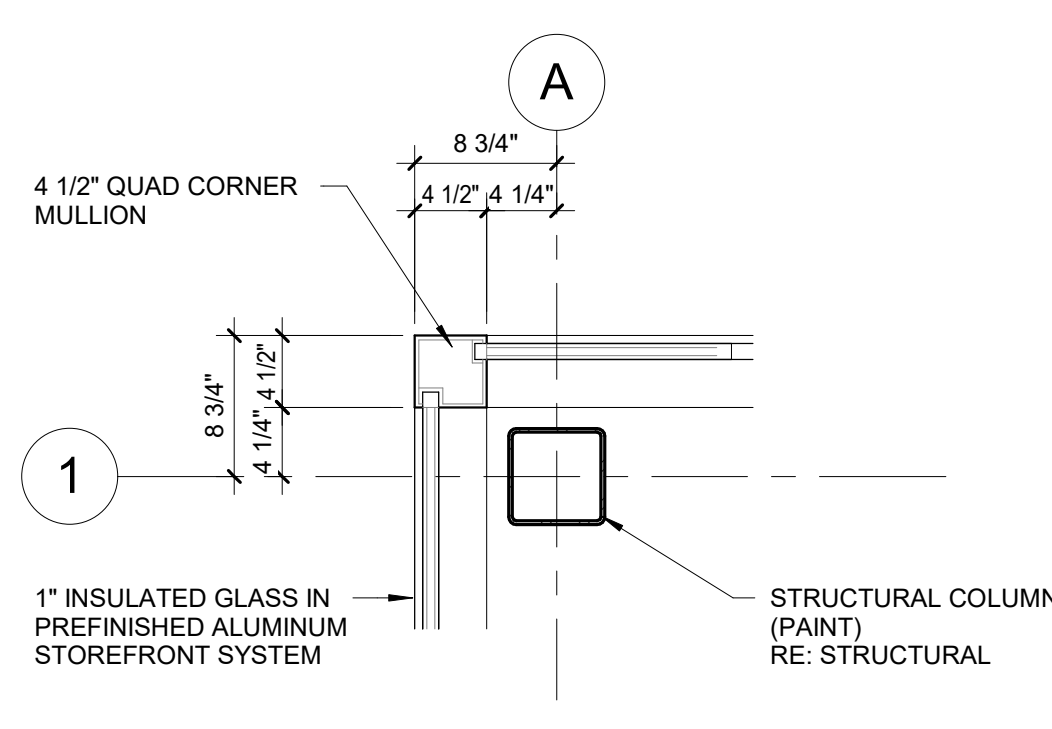
1 ENLARGED PLAN DETAIL AT ATM
1" = 1'-0"



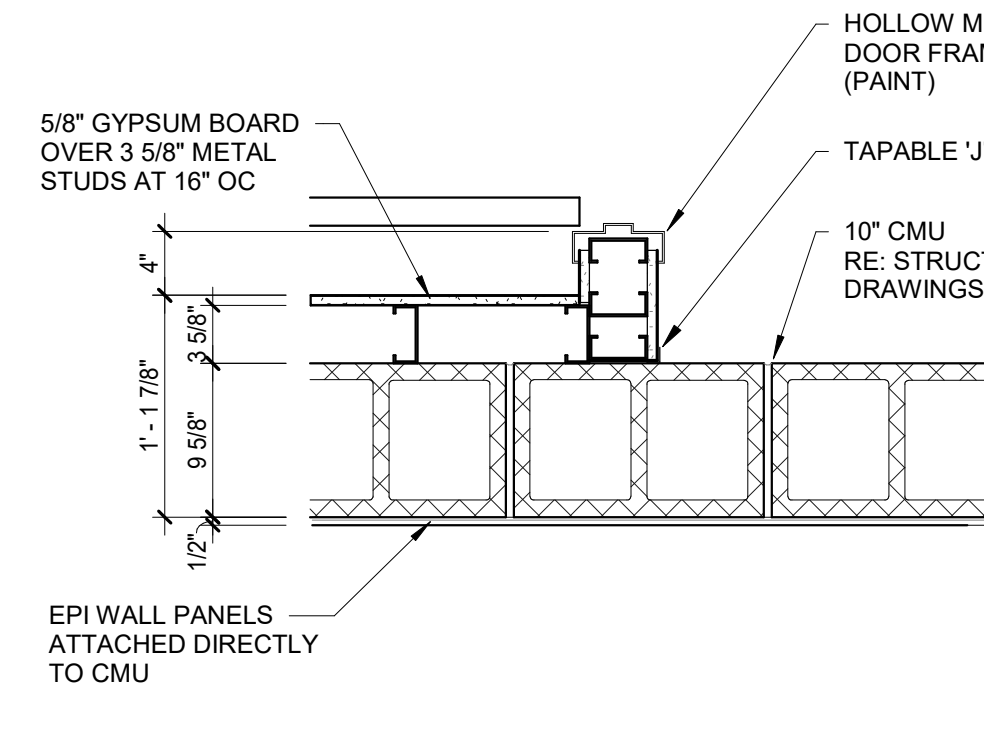
2 PLAN DETAIL
1" = 1'-0"



3 JAMB DETAIL AT DOORS 100A AND 100B
1" = 1'-0"

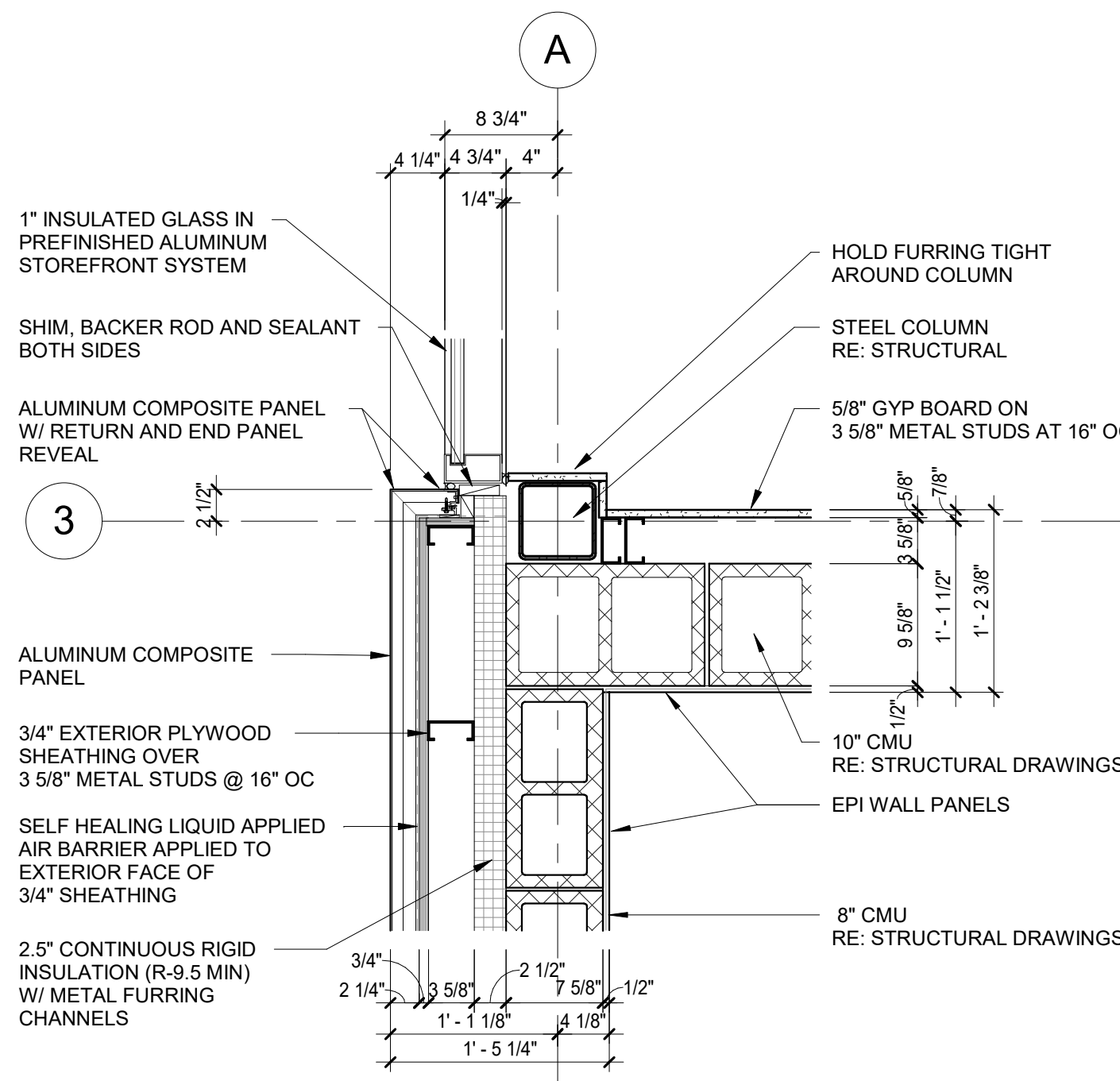


4 CORNER DTL AT COL LINE A-1
1" = 1'-0"

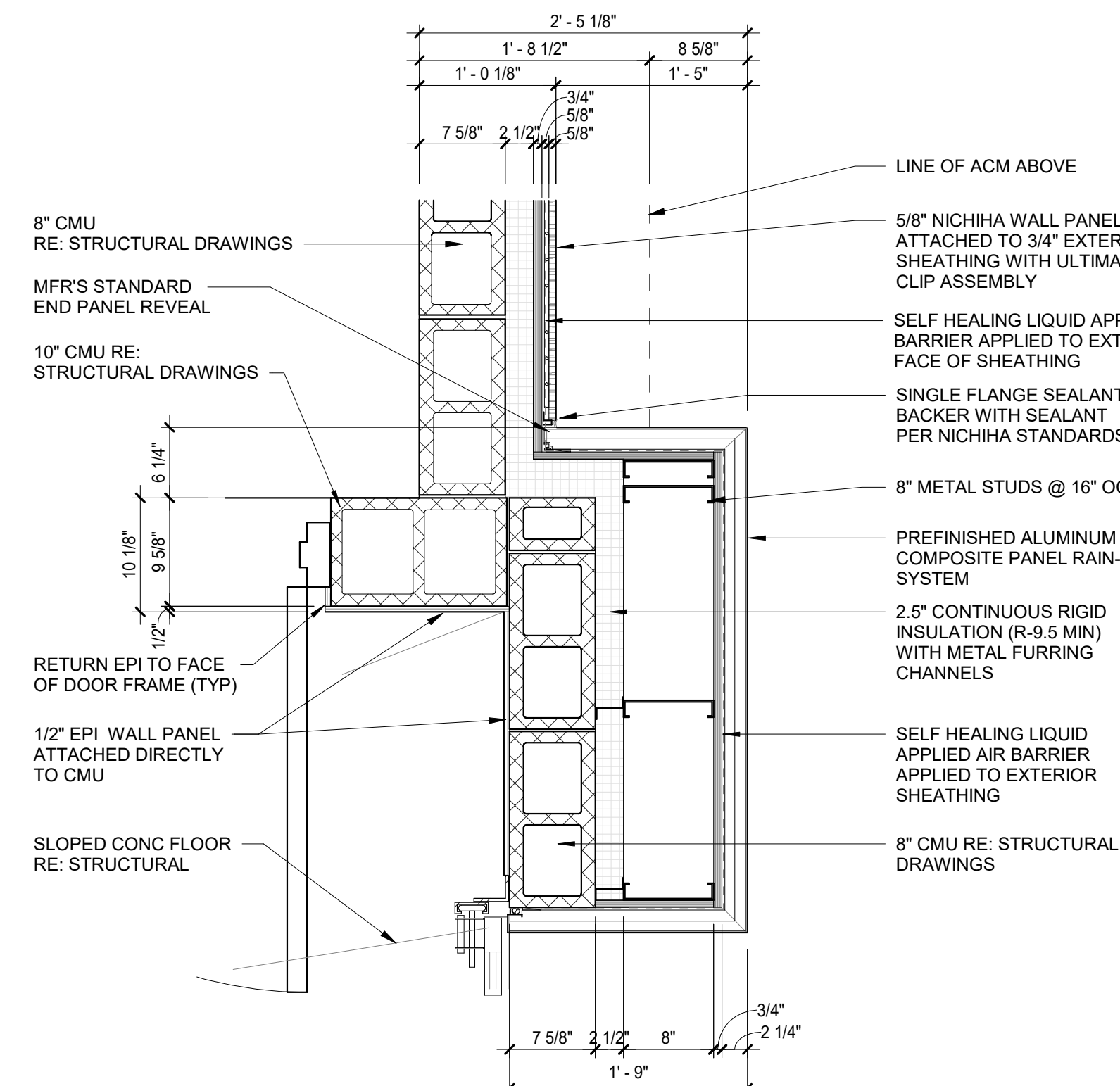


5 PLAN DETAIL AT DOOR 104
1" = 1'-0"

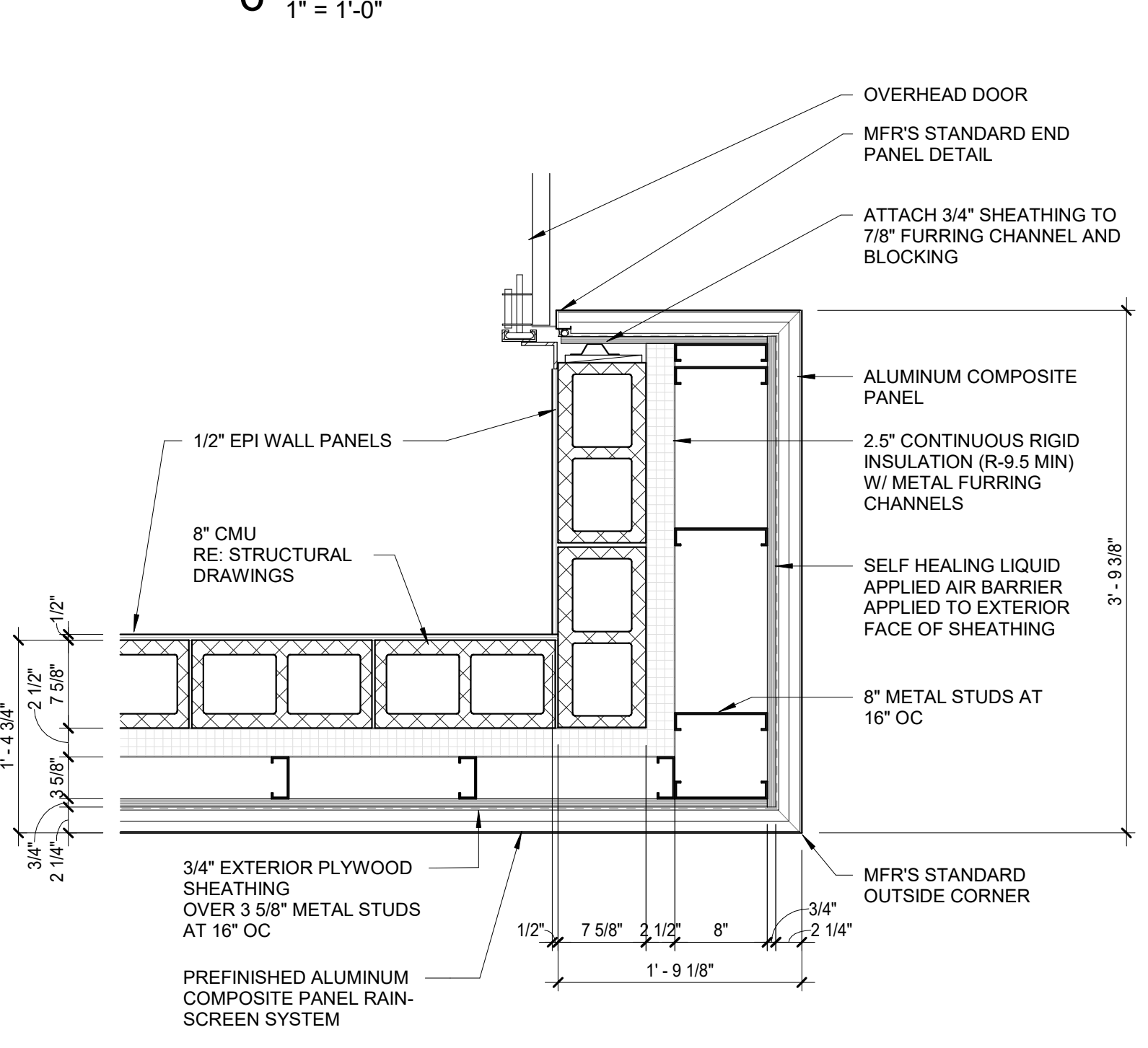
6 ENLARGED PLAN DETAIL
1" = 1'-0"



7 PLAN DETAIL AT COLUMN LINE A-3
1" = 1'-0"



8 PLAN DETAIL AT OH D BUMP OUT
1" = 1'-0"



9 PLAN DETAIL AT SE OUTSIDE CORNER
1" = 1'-0"

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CONTACT:

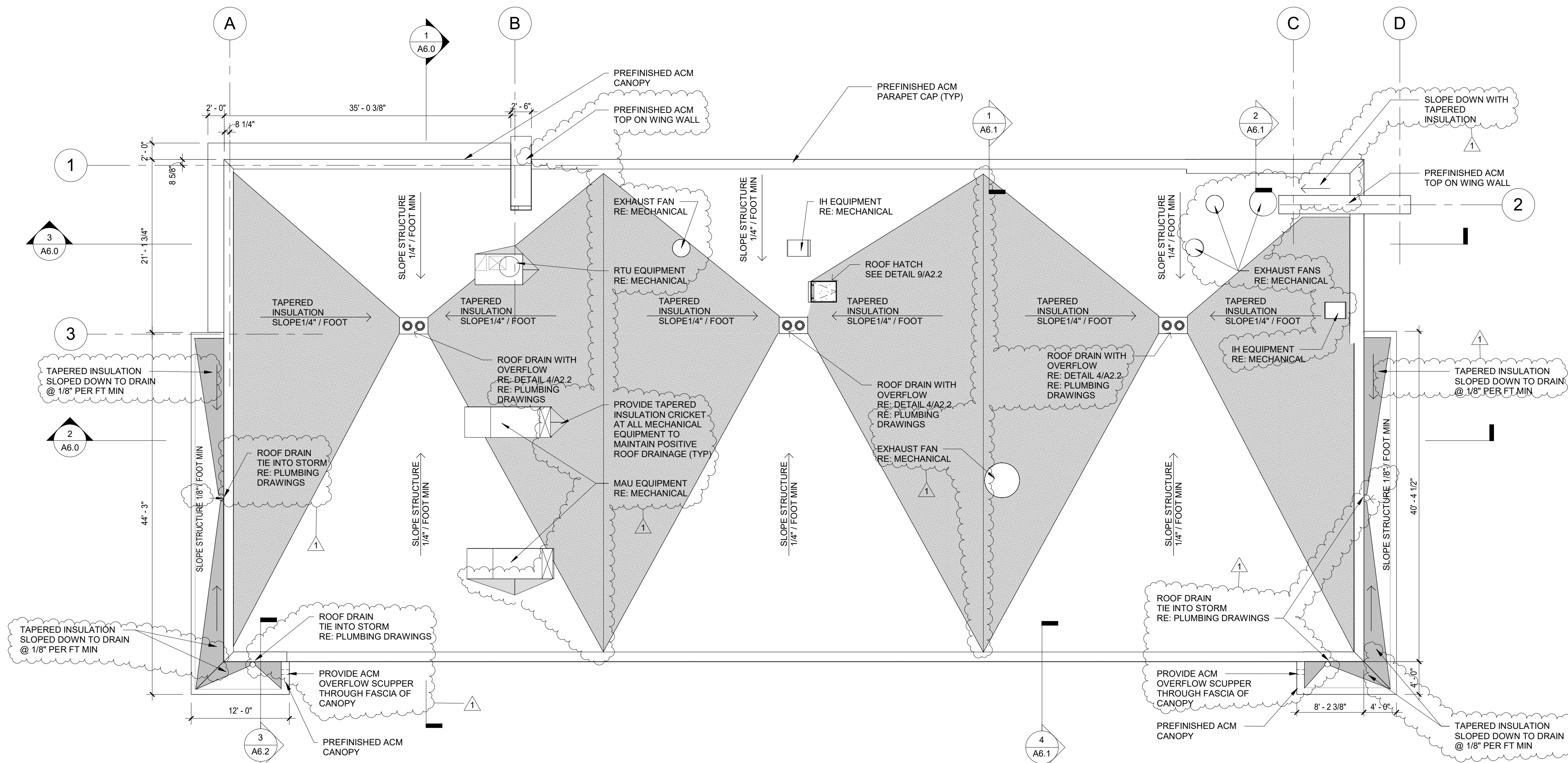
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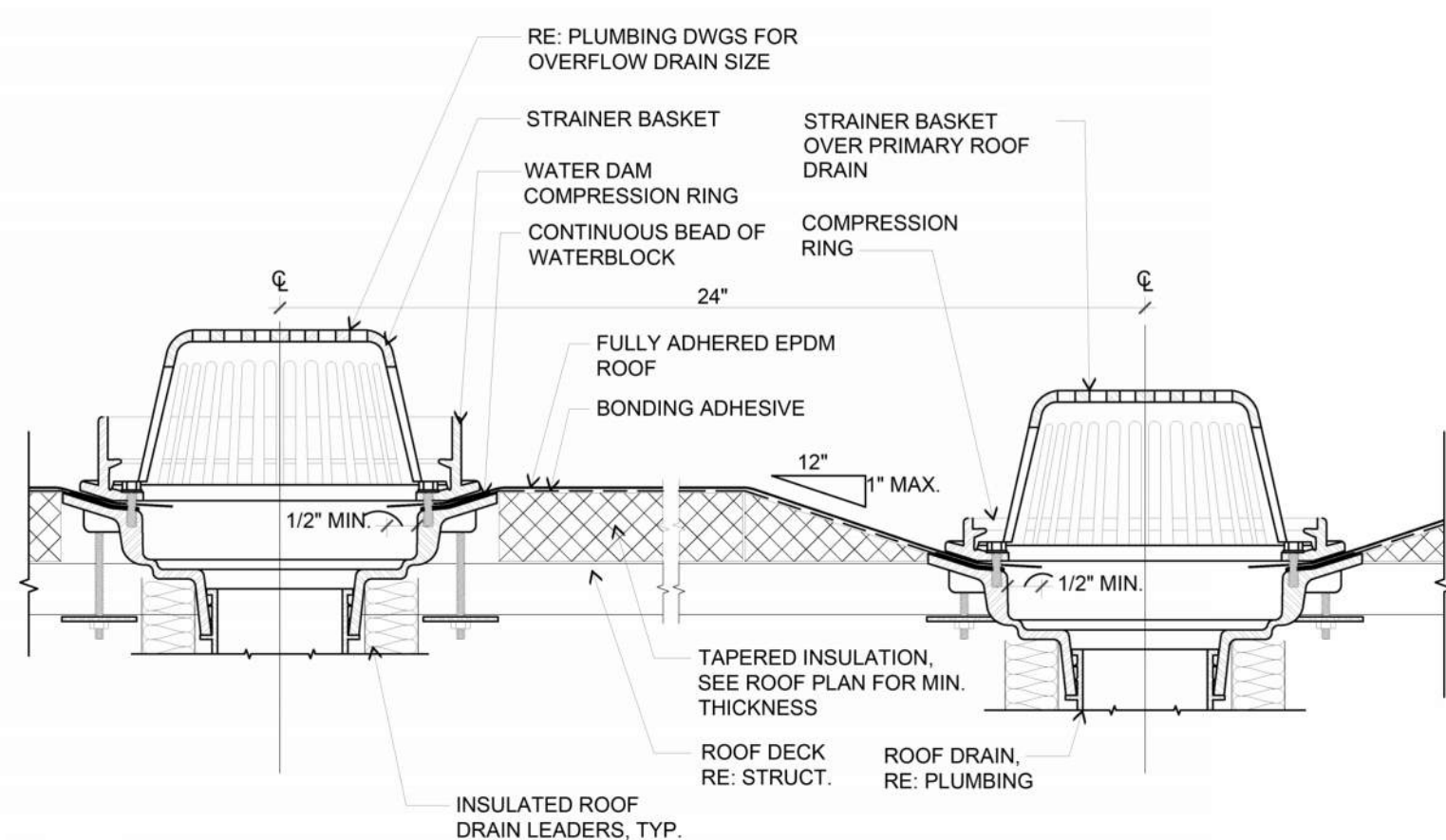
1 PERMIT COMMENTS 8/6/24

PLAN DETAILS

Issue Date: 05/31/2024

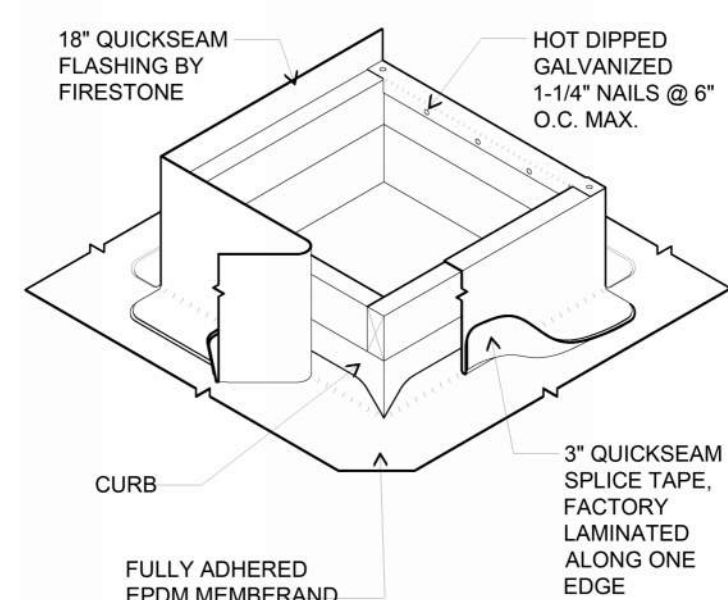


1 ROOF PLAN
1/8" = 1'-0"

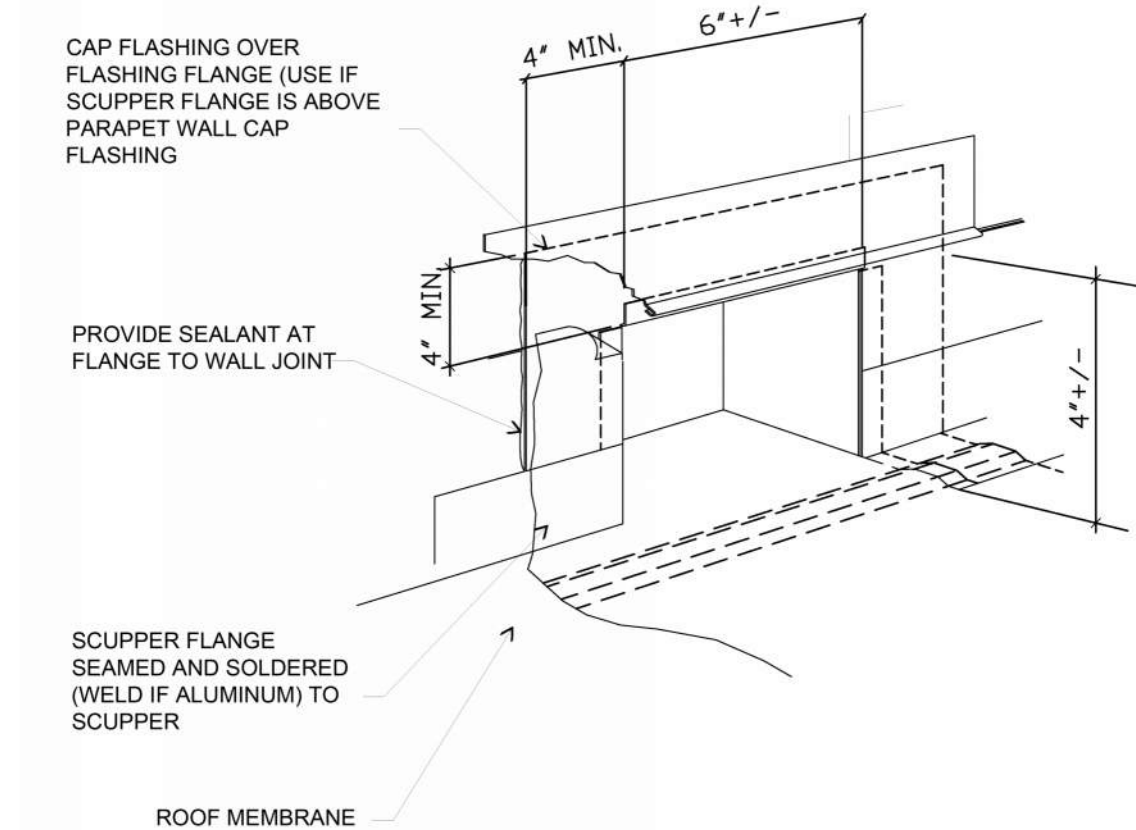


4 ROOF DRAIN WITH OVERFLOW
3" = 1'-0"

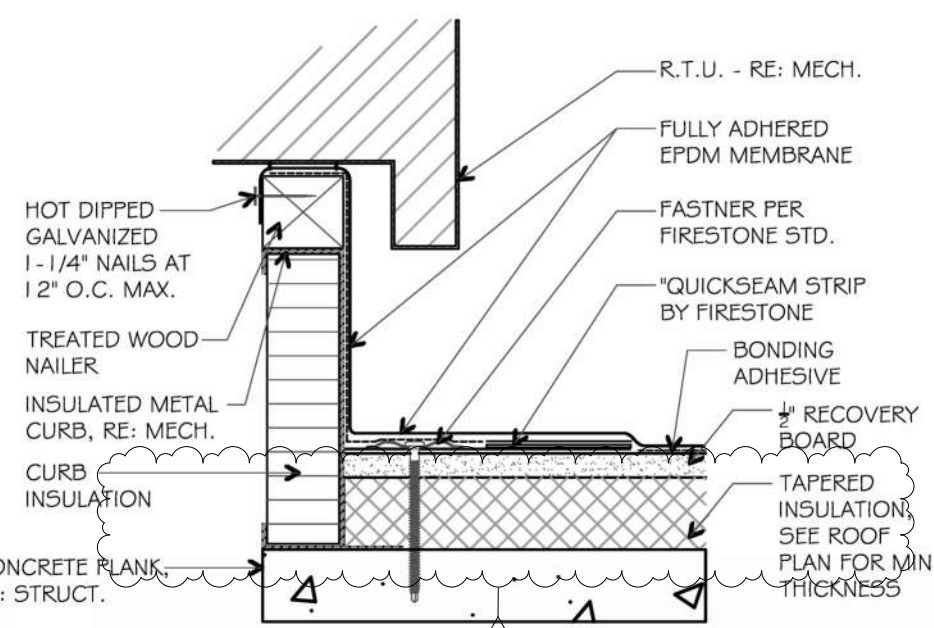
NOTE:
USE QUICKPRIME PLUS TO CLEAN AND
PRIME EPDM MATING SURFACES PRIOR TO
INSTALLATION OF QUICKSEAM PRODUCTS.



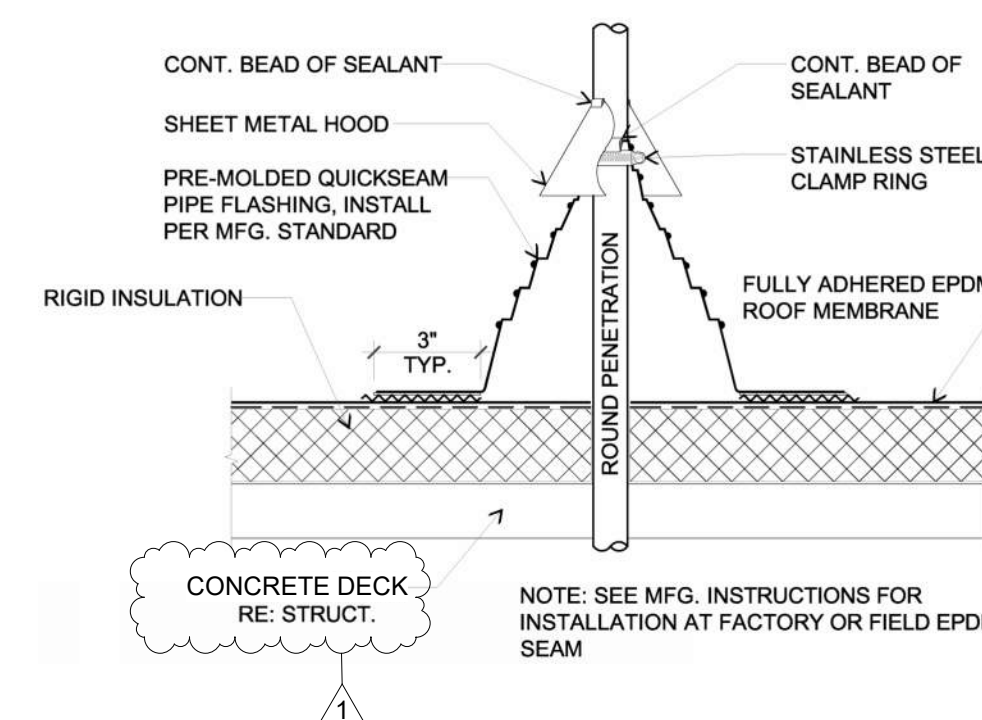
6 TYPICAL ROOF CURB DETAIL
1" = 1'-0"



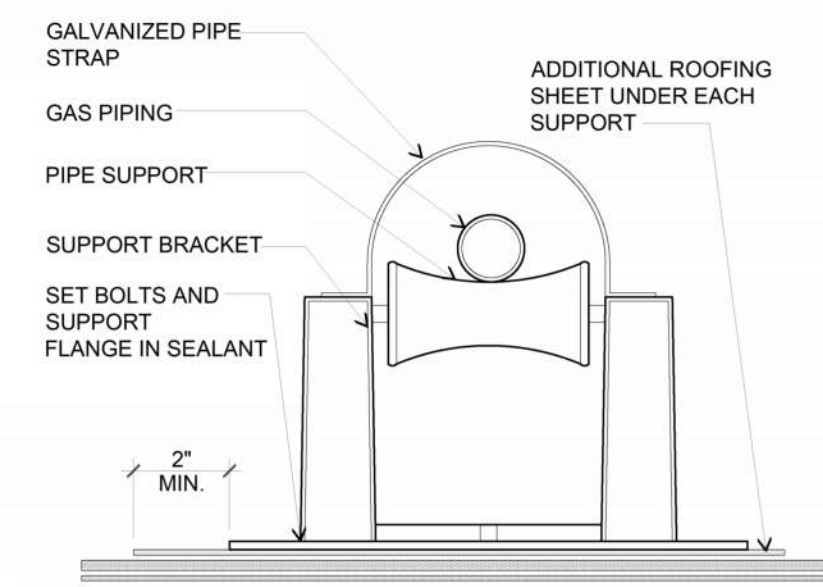
5 THROUGH WALL DRAIN DETAIL
3" = 1'-0"



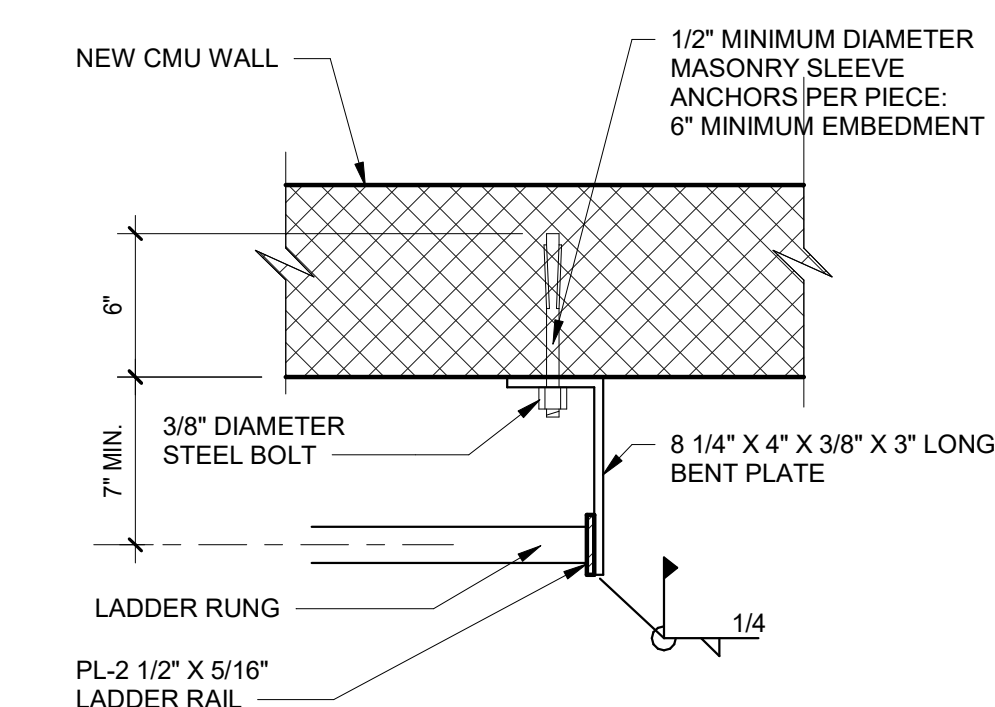
7 MECHANICAL CURB
3" = 1'-0"



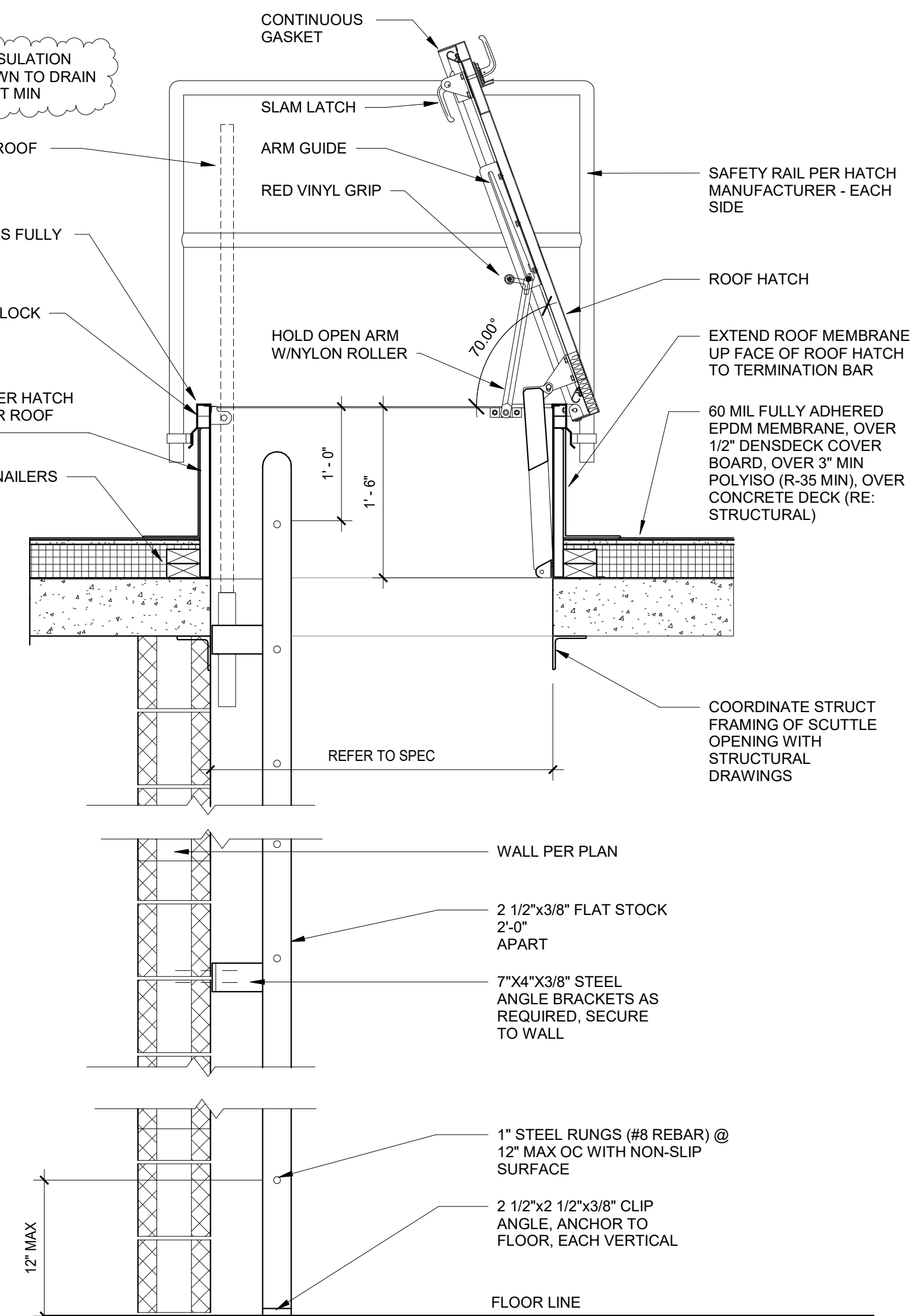
8 TYP PIPE PENETRATION DETAIL
1" = 1'-0"



2 ROOF - GAS PIPING DETAIL
3" = 1'-0"



3 ROOF LADDER ANCHOR DETAIL
1 1/2" = 1'-0"



9 ROOF HATCH LADDER SECTION
1" = 1'-0"

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ROOF PLAN & DETAILS

A2.2

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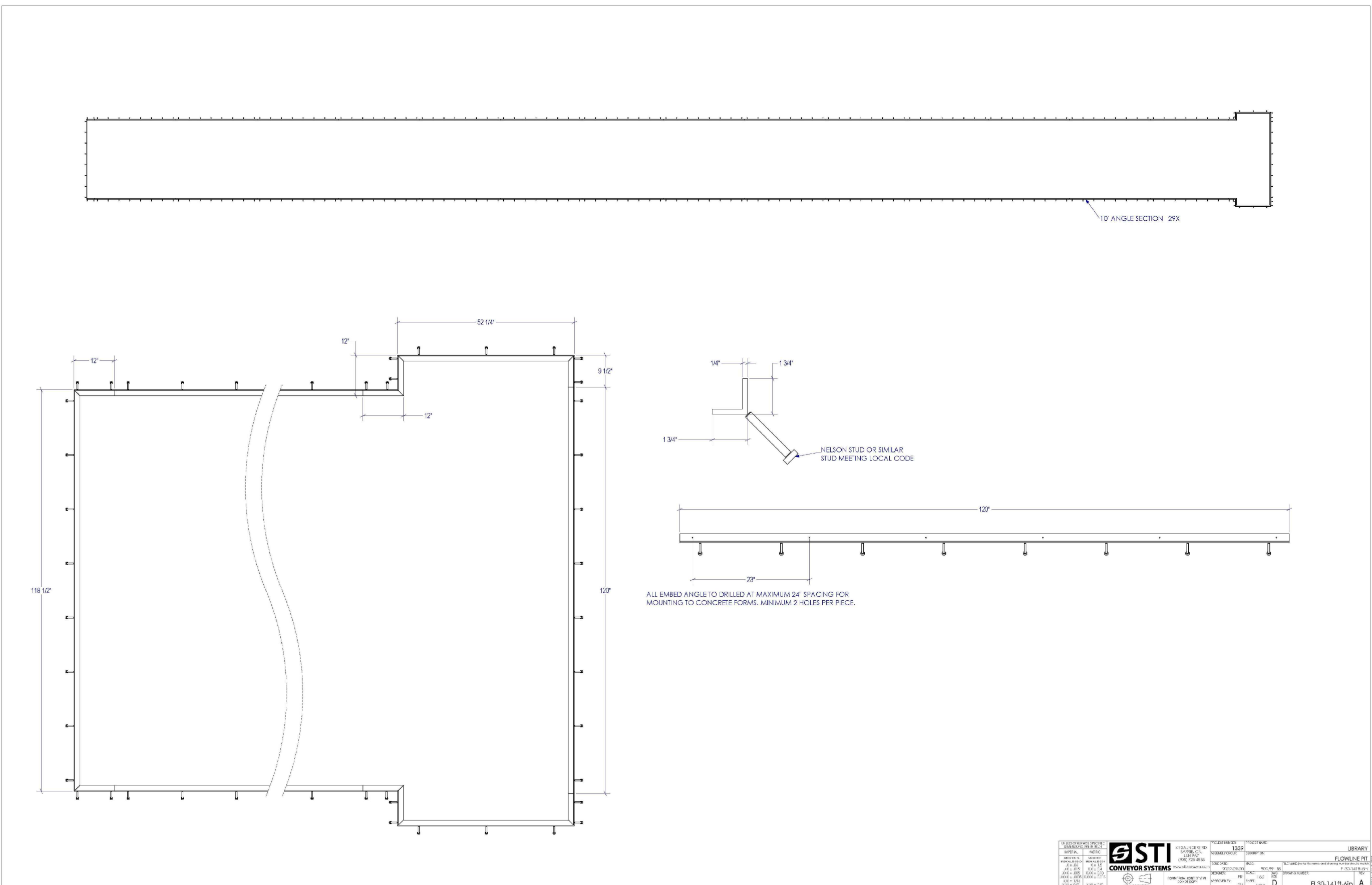
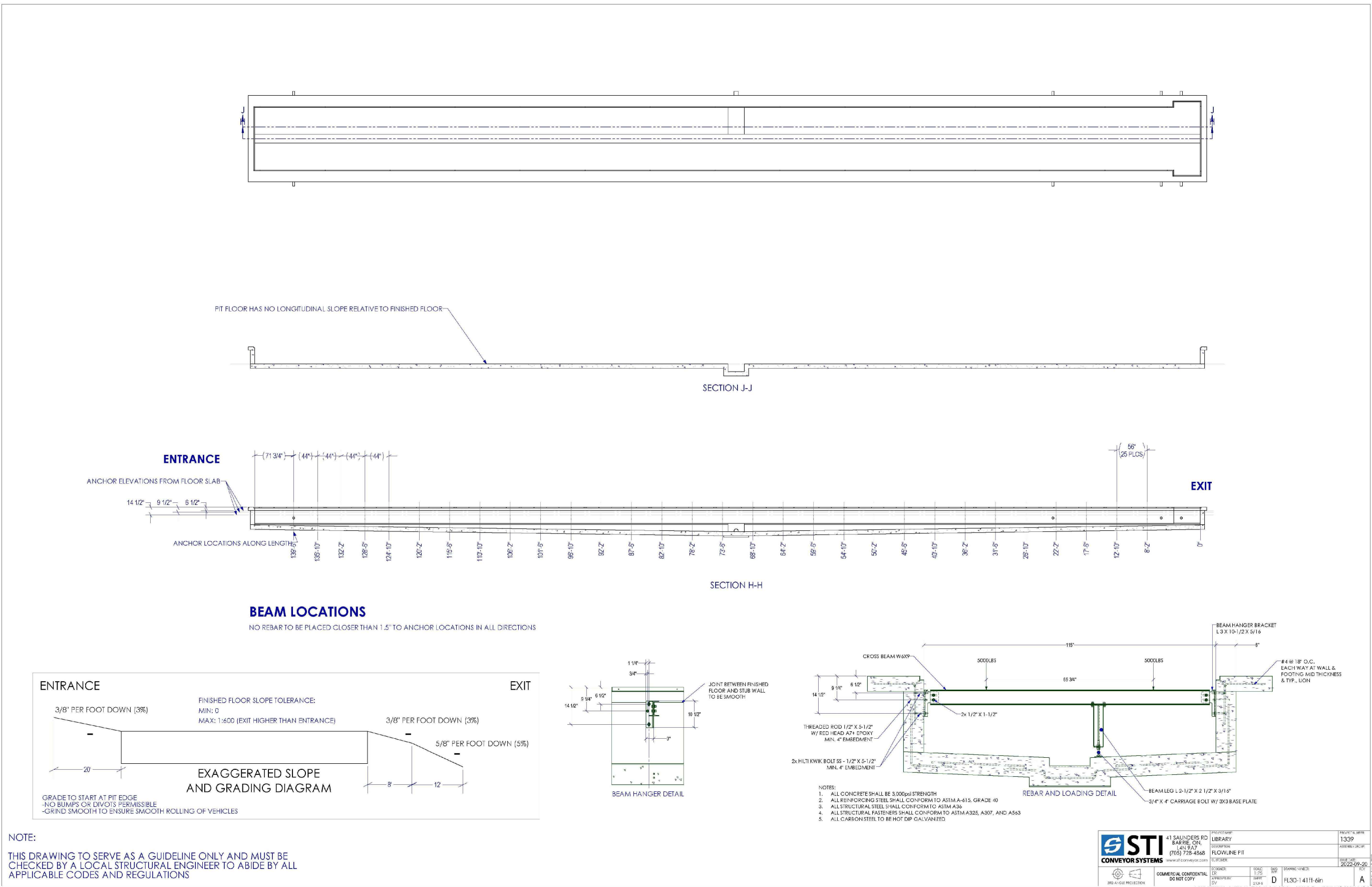
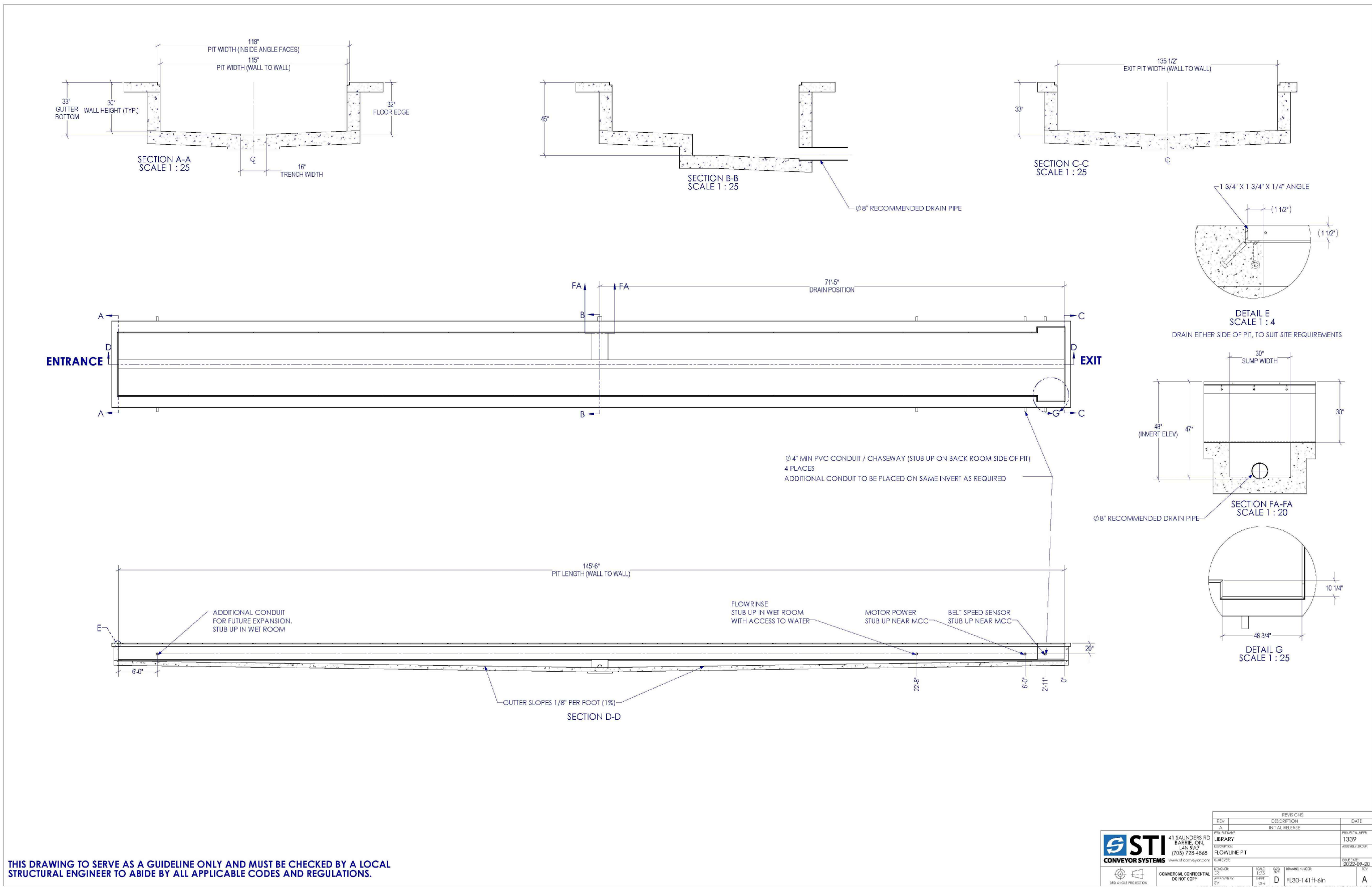
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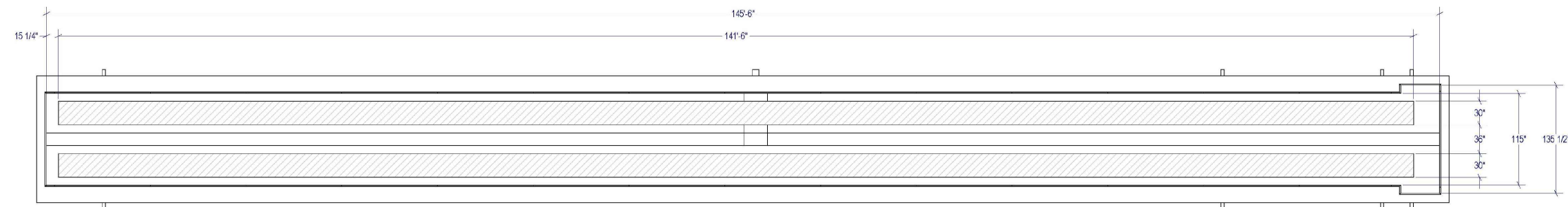
CARWASH CONVEYOR
TRENCH DETAILS

A2.3

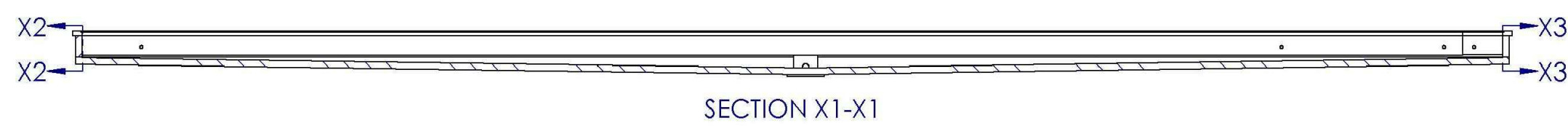
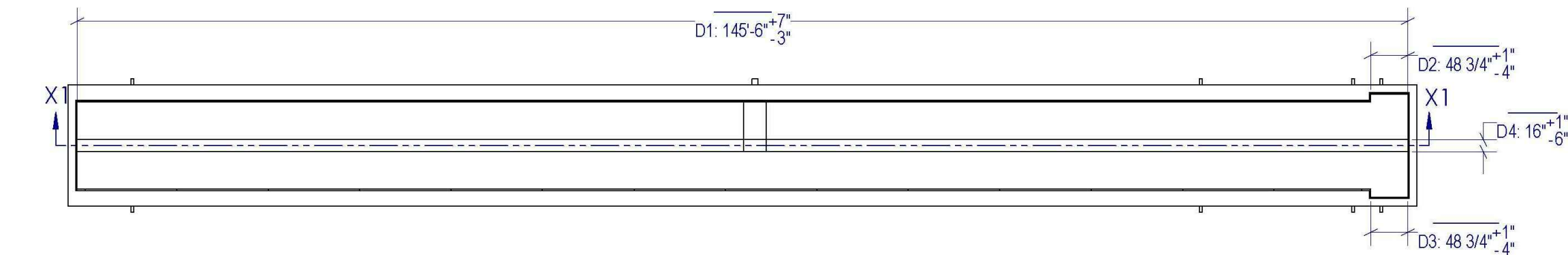
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2. THESE DRAWINGS / DETAILS ARE FROM STI AND NOT PREPARED BY ARCHITEXTURES SP.
3. ARCHITEXTURES SP TAKES NO RESPONSIBILITY FOR THESE DOCUMENTS.
4. VERIFY / COORDINATE PIT CONSTRUCTION WITH STRUCTURAL ENGINEER AND CONVEYOR MANUFACTURER.



PIT INSPECTION



SECTION X1-X1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCH		sti conveyor systems		41 SAUNDERS RD BARRIE, ON L4N 9A7 (705) 729-4600		PROJECT NUMBER: 1339		PROJECT NAME:		LIBRARY	
IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC	ISSUE DATE:	DATE:	SCALE:	DATE:	FILE NAME (for the name and drawing number, project number)	REV
1/2" = 6"	1:152.4	1/2" = 6"	1:152.4	1/2" = 6"	1:152.4	2022-09-20	2022-09-20	900, 99, 185	2022-09-20	FL30-141H-6in	1
3/4" = 6"	1:115.2	3/4" = 6"	1:115.2	3/4" = 6"	1:115.2						
1" = 6"	1:79.2	1" = 6"	1:79.2	1" = 6"	1:79.2						
1 1/4" = 6"	1:52.8	1 1/4" = 6"	1:52.8	1 1/4" = 6"	1:52.8						
1 1/2" = 6"	1:48.0	1 1/2" = 6"	1:48.0	1 1/2" = 6"	1:48.0						
2" = 6"	1:31.8	2" = 6"	1:31.8	2" = 6"	1:31.8						
2 1/2" = 6"	1:23.0	2 1/2" = 6"	1:23.0	2 1/2" = 6"	1:23.0						
3" = 6"	1:19.7	3" = 6"	1:19.7	3" = 6"	1:19.7						
3 1/2" = 6"	1:16.5	3 1/2" = 6"	1:16.5	3 1/2" = 6"	1:16.5						
4" = 6"	1:15.2	4" = 6"	1:15.2	4" = 6"	1:15.2						
4 1/2" = 6"	1:13.1	4 1/2" = 6"	1:13.1	4 1/2" = 6"	1:13.1						
5" = 6"	1:12.0	5" = 6"	1:12.0	5" = 6"	1:12.0						
5 1/2" = 6"	1:10.9	5 1/2" = 6"	1:10.9	5 1/2" = 6"	1:10.9						
6" = 6"	1:10.0	6" = 6"	1:10.0	6" = 6"	1:10.0						
6 1/2" = 6"	1:9.1	6 1/2" = 6"	1:9.1	6 1/2" = 6"	1:9.1						
7" = 6"	1:8.5	7" = 6"	1:8.5	7" = 6"	1:8.5						
7 1/2" = 6"	1:8.0	7 1/2" = 6"	1:8.0	7 1/2" = 6"	1:8.0						
8" = 6"	1:7.6	8" = 6"	1:7.6	8" = 6"	1:7.6						
8 1/2" = 6"	1:7.2	8 1/2" = 6"	1:7.2	8 1/2" = 6"	1:7.2						
9" = 6"	1:6.9	9" = 6"	1:6.9	9" = 6"	1:6.9						
9 1/2" = 6"	1:6.6	9 1/2" = 6"	1:6.6	9 1/2" = 6"	1:6.6						
10" = 6"	1:6.3	10" = 6"	1:6.3	10" = 6"	1:6.3						
10 1/2" = 6"	1:6.0	10 1/2" = 6"	1:6.0	10 1/2" = 6"	1:6.0						
11" = 6"	1:5.7	11" = 6"	1:5.7	11" = 6"	1:5.7						
11 1/2" = 6"	1:5.4	11 1/2" = 6"	1:5.4	11 1/2" = 6"	1:5.4						
12" = 6"	1:5.1	12" = 6"	1:5.1	12" = 6"	1:5.1						
12 1/2" = 6"	1:4.8	12 1/2" = 6"	1:4.8	12 1/2" = 6"	1:4.8						
13" = 6"	1:4.5	13" = 6"	1:4.5	13" = 6"	1:4.5						
13 1/2" = 6"	1:4.2	13 1/2" = 6"	1:4.2	13 1/2" = 6"	1:4.2						
14" = 6"	1:4.0	14" = 6"	1:4.0	14" = 6"	1:4.0						
14 1/2" = 6"	1:3.8	14 1/2" = 6"	1:3.8	14 1/2" = 6"	1:3.8						
15" = 6"	1:3.6	15" = 6"	1:3.6	15" = 6"	1:3.6						
15 1/2" = 6"	1:3.4	15 1/2" = 6"	1:3.4	15 1/2" = 6"	1:3.4						
16" = 6"	1:3.3	16" = 6"	1:3.3	16" = 6"	1:3.3						
16 1/2" = 6"	1:3.1	16 1/2" = 6"	1:3.1	16 1/2" = 6"	1:3.1						
17" = 6"	1:3.0	17" = 6"	1:3.0	17" = 6"	1:3.0						
17 1/2" = 6"	1:2.9	17 1/2" = 6"	1:2.9	17 1/2" = 6"	1:2.9						
18" = 6"	1:2.8	18" = 6"	1:2.8	18" = 6"	1:2.8						
18 1/2" = 6"	1:2.7	18 1/2" = 6"	1:2.7	18 1/2" = 6"	1:2.7						
19" = 6"	1:2.6	19" = 6"	1:2.6	19" = 6"	1:2.6						
19 1/2" = 6"	1:2.5	19 1/2" = 6"	1:2.5	19 1/2" = 6"	1:2.5						
20" = 6"	1:2.4	20" = 6"	1:2.4	20" = 6"	1:2.4						
20 1/2" = 6"	1:2.3	20 1/2" = 6"	1:2.3	20 1/2" = 6"	1:2.3						
21" = 6"	1:2.2	21" = 6"	1:2.2	21" = 6"	1:2.2						
21 1/2" = 6"	1:2.1	21 1/2" = 6"	1:2.1	21 1/2" = 6"	1:2.1						
22" = 6"	1:2.0	22" = 6"	1:2.0	22" = 6"	1:2.0						
22 1/2" = 6"	1:1.9	22 1/2" = 6"	1:1.9	22 1/2" = 6"	1:1.9						
23" = 6"	1:1.8	23" = 6"	1:1.8	23" = 6"	1:1.8						
23 1/2" = 6"	1:1.7	23 1/2" = 6"	1:1.7	23 1/2" = 6"	1:1.7						
24" = 6"	1:1.6	24" = 6"	1:1.6	24" = 6"	1:1.6						
24 1/2" = 6"	1:1.5	24 1/2" = 6"	1:1.5	24 1/2" = 6"	1:1.5						
25" = 6"	1:1.4	25" = 6"	1:1.4	25" = 6"	1:1.4						
25 1/2" = 6"	1:1.3	25 1/2" = 6"	1:1.3	25 1/2" = 6"	1:1.3						
26" = 6"	1:1.2	26" = 6"	1:1.2	26" = 6"	1:1.2						
26 1/2" = 6"	1:1.1	26 1/2" = 6"	1:1.1	26 1/2" = 6"	1:1.1						
27" = 6"	1:1.0	27" = 6"	1:1.0	27" = 6"	1:1.0						
27 1/2" = 6"	1:0.9	27 1/2" = 6"	1:0.9	27 1/2" = 6"	1:0.9						
28" = 6"	1:0.8	28" = 6"	1:0.8	28" = 6"	1:0.8						
28 1/2" = 6"	1:0.7	28 1/2" = 6"	1:0.7	28 1/2" = 6"	1:0.7						
29" = 6"	1:0.6	29" = 6"	1:0.6	29" = 6"	1:0.6						
29 1/2" = 6"	1:0.5	29 1/2" = 6"	1:0.5	29 1/2" = 6"	1:0.5						
30" = 6"	1:0.4	30" = 6"	1:0.4	30" = 6"	1:0.4						
30 1/2" = 6"	1:0.3	30 1/2" = 6"	1:0.3	30 1/2" = 6"	1:0.3						
31" = 6"	1:0.2	31" = 6"	1:0.2	31" = 6"	1:0.2						
31 1/2" = 6"	1:0.1	31 1/2" = 6"	1:0.1	31 1/2" = 6"	1:0.1						
32" = 6"	1:0.0	32" = 6"	1:0.0	32" = 6"	1:0.0						
32 1/2" = 6"	1:0.0	32 1/2" = 6"	1:0.0	32 1/2" = 6"	1:0.0						
33" = 6"	1:0.0	33" = 6"	1:0.0	33" = 6"	1:0.0						
33 1/2" = 6"	1:0.0	33 1/2" = 6"	1:0.0	33 1/2" = 6"	1:0.0						
34" = 6"	1:0.0	34" = 6"	1:0.0	34" = 6"	1:0.0						
34 1/2" = 6"	1:0.0	34 1/2" = 6"	1:0.0	34 1/2" = 6"	1:0.0						
35" = 6"	1:0.0	35" = 6"	1:0.0	35" = 6"	1:0.0						
35 1/2" = 6"	1:0.0	35 1/2" = 6"	1:0.0	35 1/2" = 6"	1:0.0						
36" = 6"	1:0.0	36" = 6"	1:0.0	36" = 6"	1:0.0						
36 1/2" = 6"	1:0.0	36 1/2" = 6"	1:0.0	36 1/2" = 6"	1:0.0						
37" = 6"	1:0.0	37" = 6"	1:0.0	37" = 6"	1:0.0						
37 1/2" = 6"	1:0.0	37 1/2" = 6"	1:0.0	37 1/2" = 6"	1:0.0						
38" = 6"	1:0.0	38" = 6"	1:0.0	38" = 6"	1:0.0						
38 1/2" = 6"	1:0.0	38 1/2" = 6"	1:0.0	38 1/2" = 6"	1:0.0						
39" = 6"	1:0.0	39" = 6"	1:0.0	39" = 6"	1:0.0						
39 1/2" = 6"	1:0.0	39 1/2" = 6"	1:0.0	39 1/2" = 6"	1:0.0						
40" = 6"	1:0.0	40" = 6"	1:0.0	40" = 6"	1:0.0						
40 1/2" = 6"	1:0.0	40 1/2" = 6"	1:0.0	40 1/2" = 6"	1:0.0						
41" = 6"	1:0.0	41" = 6"	1:0.0	41" = 6"	1:0.0						
41 1/2" = 6"	1:0.0	41 1/2" = 6"	1:0.0	41 1/2" = 6"	1:0.0						
42" = 6"	1:0.0	42" = 6"	1:0.0	42" = 6"	1:0.0						
42 1/2" = 6"	1:0.0	42 1/2" = 6"	1:0.0	42 1/2" = 6"	1:0.0						
43" = 6"	1:0.0	43" = 6"	1:0.0	43" = 6"	1:0.0						
43 1/2" = 6"	1:0.0	43 1/2" = 6"	1:0.0	43 1/2" = 6"	1:0.0						
44" = 6"	1:0.0	44" = 6"	1:0.0	44" = 6"	1:0.0						
44 1/2" = 6"	1:0.0	44 1/2" = 6"	1:0.0	44 1/2" = 6"	1:0.0						
45" = 6"	1:0.0	45" = 6"	1:0.0	45" = 6"	1:0.0						
45 1/2" = 6"	1:0.0	45 1/2" = 6"	1:0.0	45 1/2" = 6"	1:0.0						
46" = 6"	1:0.0	46" = 6"	1:0.0	46" = 6"	1:0.0						
46 1/2" = 6"	1:0.0	46 1/2" = 6"	1:0.0	46 1/2" = 6"	1:0.0						
47" = 6"	1:0.0	47" = 6"	1:0.0	47" = 6"	1:0.0						
47 1/2" = 6"	1:0.0	47 1/2" = 6"	1:0.0	47 1/2" = 6"	1:0.0						
48" = 6"	1:0.0	48" = 6"	1:0.0	48" = 6"	1:0.0						
48 1/2" = 6"	1:0.0	48 1/2" = 6"	1:0.0	48 1/2" = 6"	1:0.0						
49" = 6"	1:0.0	49" = 6"	1:0.0	49" = 6"	1:0.0						
49 1/2" = 6"	1:0.0	49 1/2" = 6"	1:0.0	49 1/2" = 6"	1:0.0						
50" = 6"	1:0.0	50" = 6"	1:0.0	50" = 6"	1:0.0						
50 1/2" = 6"	1:0.0	50 1/2" = 6"	1:0.0	50 1/2" = 6"	1:0.0						
51" = 6"	1:0.0	51" = 6"	1:0.0	51" = 6"	1:0.0						
51 1/2" = 6"	1:0.0	51 1/2" = 6"	1:0.0	51 1/2" = 6"	1:0.0						
52" = 6"	1:0.0	52" = 6"	1:0.0	52" = 6"	1:0.0						
52 1/2" = 6"	1:0.0	52 1/2" = 6"	1:0.0	52 1/2" = 6"	1:0.0						
53" = 6"	1:0.0	53" = 6"	1:0.0	53" = 6"	1:0.0						
53 1/2" = 6"	1:0.0	53 1/2" = 6"	1:0.0	53 1/2" = 6"	1:0.0						
54" = 6"	1:0.0	54" = 6"	1:0.0	54" = 6"	1:0.0						
54 1/2" = 6"	1:0.0	54 1/2" = 6"	1:0.0	54 1/2" = 6"	1:0.0						
55" = 6"	1:0.0	55" = 6"	1:0.0	55" = 6"	1:0.0						
55 1/2" = 6"	1:0.0	55 1/2" = 6"	1:0.0	55 1/2" = 6"	1:0.0						
56" = 6"	1:0.0	56" = 6"	1:0.0	56" = 6"	1:0.0						
56 1/2" = 6"	1:0.0	56 1/2" = 6"	1:0.0	56 1/2" = 6"	1:0.0						
57" = 6"	1:0.0	57" = 6"	1:0.0	57" = 6"	1:0.0						
57 1/2" = 6"	1:0.0	57 1/2" = 6"	1:0.0	57 1/2" = 6"	1:0.0						
58" = 6"	1:0.0	58" = 6"	1:0.0	58" = 6"	1:0.0						
58 1/2" = 6"	1:0.0	58 1/2" = 6"	1:0.0	58 1/2" = 6"	1:0.0						
59" = 6"	1:0.0	59" = 6"	1:0.0	59" = 6"	1:0.0						
59 1/2" = 6"	1:0.0	59 1/2" = 6"	1:0.0	59 1/2" = 6"	1:0.0						
60" = 6"	1:0.0	60" = 6"	1:0.0	60" = 6"	1:0.0						
60 1/2" = 6"	1:										

HARDWARE SET OH-1

O.H. DOORS 110A, 110B, 110C, 110D
EACH O.H. TO RECEIVE:

- 1 CYLINDER NOTE BEST LOCKS
NOTE BALANCE OF HARDWARE, BY O.H.D. SUPPLIER

HARDWARE SET 1

PAIR STOREFRONT DOORS 100B
PAIR TO RECEIVE:

- 2 EA CONT HINGE BY STOREFRONT MFG
1 EA CYLINDER TYPE TO OPERATE MFGRS LOCK CLEAR ANOD. BEST LOCKS
2 SET PUSH/PULL BF15747 X REQ'D CTC X T3HD CLEAR ANOD. ROCKWOOD
2 EA CLOSER BY STOREFRONT MFG
0 NOTE FLUSH BOLTS, LOCKS, SEALS, & THRESHOLD, BY STOREFRONT MFG
0 NOTE AUTO OPERATORS, IF REQUIRED, BY OTHERS
1 EA RIM EXIT DEVICE BY STOREFRONT MFG
1 EA SWEEP BY STOREFRONT MFG

HARDWARE SET 2

DOORS: 102, 103
EACH DOOR TO HAVE:

- 3 HINGES BB1279 4 1/2 X 4 1/2 US26D HAGER
1 PRIVACY SET 9K3-OL14D S3 626 BEST LOCKS
1 CLOSER 5200 ALM HAGER
1 KICK PLATE 194S 10" X 2" LDW US32D HAGER
WALL STOP 235W US26D HAGER
3 DOOR SILENCERS 307D GREY HAGER

HARDWARE SET 3

DOORS: 104
EACH DOOR TO HAVE:

- 1 HINGE BB1191 4.5 X 4.5 NRP X SH US32 HAGER
1 STOREROOM 93K7D14D X S3 US26 BEST LOCKS
1 CLOSER P4041 US32 LCN
1 SILENCER GJ64 US32 GLYNN-JOHNSON CO.
1 KICKPLATE 10" X 2" LDW B4E US32 ROCKWOOD

HARDWARE SET 4

SINGLE DOOR 105A
TO RECEIVE:

- 3 HINGE BB1191 4.5 X 4.5 NRP X SH US32D HAGER
1 CLASSROOM 8737 S US26 BEST LOCKS
1 PUSH PLATE 8200 4" X 16" 630 IVE
1 PULL PLATE 8303 10" X 16" 630 IVE
1 OH STOP 90S 630 GLYNN-JOHNSON CO.
1 SURF. AUTO OPP. 4642 WMS 689 LCN
2 ACTUATOR TOUCHLESS 8310-813 BLK LCN
1 CLOSER TEMPLATING, BRACKETS, SHOES, SPACERS, ETC AS REQUIRED
1 RAIN DRIP 16A X DR WIDTH + 4" ALUM LCN
1 GASKETING 160VA X HEAD & JAMBS AA NGP
1 DOOR SWEEP 202NA X REQ'D WIDTH A NGP
1 THRESHOLD 426 X REQ'D WIDTH A NGP
1 KEY SWITCH 653-04 12/24 VDC 626 SCE

HARDWARE SET 5

SINGLE DOOR 105B, 106
TO RECEIVE:

- 3 HINGE BB1191 4.5 X 4.5 NRP X SH US32 HAGER
1 STOREROOM 93K7D14D X S3 US26 BEST LOCKS
1 CLOSER 4041-SCUSH US32 LCN
1 KICKPLATE 10" X 2" LDW B4E US32 ROCKWOOD
1 SILENCER GJ64 US32 GLYNN-JOHNSON CO.

SINGLE DOOR 108B
TO RECEIVE:

HARDWARE SET 5 WITH PANIC HARDWARE

HARDWARE SET 6 (NOT USED)

HARDWARE SET 7

PAIR DOORS 107, 109
TO RECEIVE:

- 2 SS CONT HINGE HG-305 X 1" LESS THAN DOOR US32D MARKAR PRODUCTS, INC.
2 SURFACE BOLT HGT X S.S. THRU BOLTS US32D ROCKWOOD
1 MORT. LOCK 630-12 X S.S. THRU BOLTS US32D BEST LOCKS
2 FL STOP & HOLD 473 CLASSROOM 35H7J14H US32D ROCKWOOD
1 S.S. THRESH 614SS 4" X REQ'D WIDTH 304 SS NAT GUARD
1 S.S. THRESH STOP STRIP BAR2SS (DRILLED FOR SCREWS) 304 SS NAT GUARD
1 X REQ'D WIDTH 10" X 2" LDW B4E US32D NAT GUARD
1 KICKPLATE 16A X DR WIDTH + 4" ALUM ROCKWOOD
1 DRIP CAP 129NSS X HEAD & JAMBS S.S. NAT GUARD
1 S.S. SEAL 200NSS X REQ'D WIDTH S.S. NAT GUARD
2 SWEEP 109NSS X REQ'D HGT S.S. NAT GUARD
1 ASTRAGAL INACTIVE LEAF

HARDWARE SET 8

SINGLE DOOR 108
TO RECEIVE:

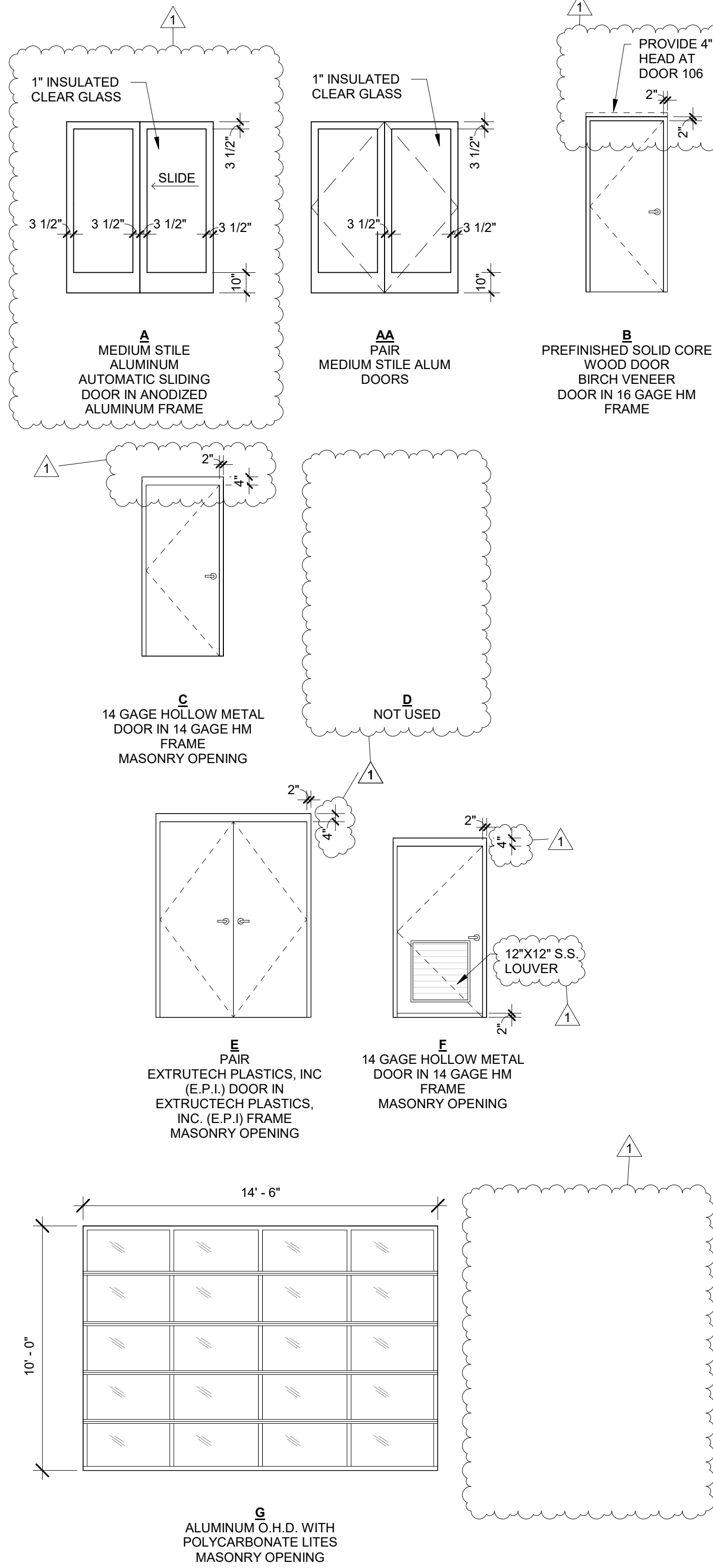
- 3 HINGE BB1191 4.5 X 4.5 NRP X SH US32D HAGER
1 PANIC W/ LVR. TRIM P4041 ALUM LCN
1 CLOSER GJ64 US32 GLYNN-JOHNSON CO.
1 SILENCER 10" X 2" LDW B4E US32D ROCKWOOD
1 KICKPLATE

NOTES

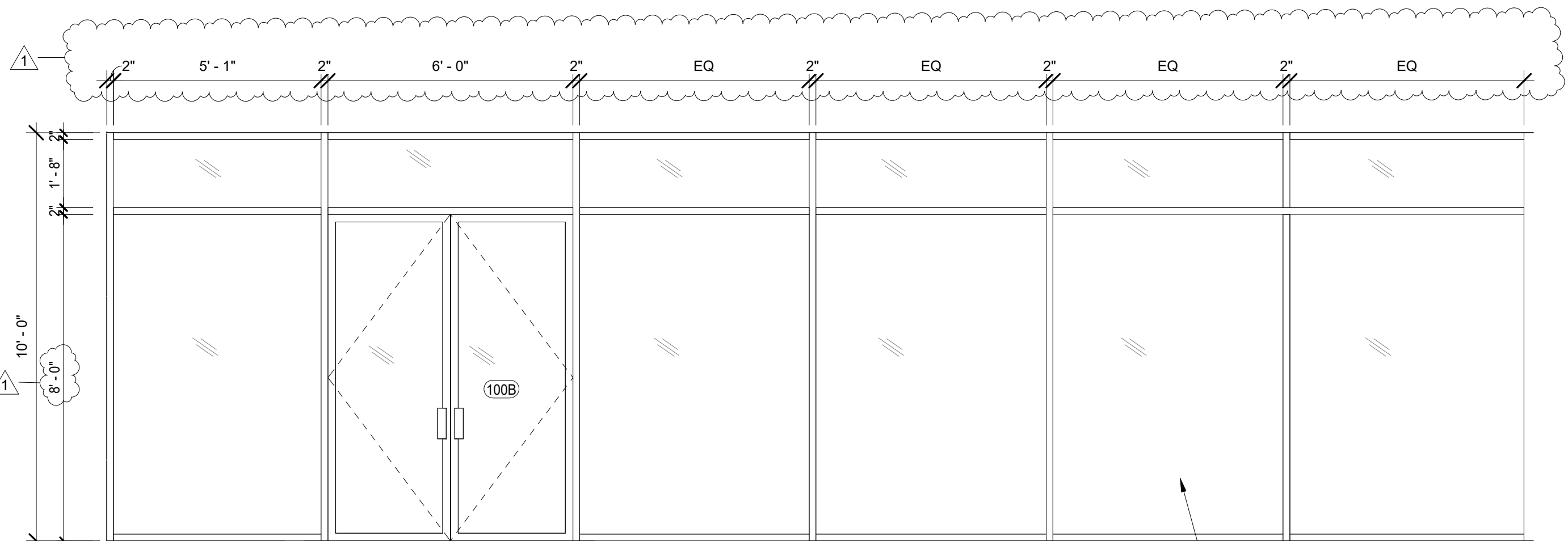
- LEAVE MANUFACTURER'S PROTECTIVE FILM INTACT AND PROVIDE PROPER PROTECTION FOR ALL OTHER FINISH HARDWARE ITEMS THAT DO NOT HAVE PROTECTIVE MATERIAL FROM THE MANUFACTURE UNTIL OWNER ACCEPTS PROJECT AS COMPLETE.
- GUIDE: DOOR HARDWARE ITEMS HAVE BEEN PLACED IN SETS WHICH ARE INTENDED TO BE A GUIDE OF DESIGN, GRADE, QUALITY, FUNCTION, OPERATION, PERFORMANCE, EXPOSURE, AND LIKE CHARACTERISTICS OF DOOR HARDWARE, AND MAY NOT BE COMPLETE. PROVIDE DOOR HARDWARE REQUIRED TO MAKE EACH SET COMPLETE AND OPERATIONAL.
- HARDWARE SCHEDULE DOES NOT REFLECT HANDING, BACKSET, METHOD OF FASTENING, AND LIKE CHARACTERISTICS OF DOOR HARDWARE AND DOOR OPERATION.
- REVIEW DOOR HARDWARE SETS WITH DOOR TYPES, FRAMES, SIZES AND DETAILS ON DRAWINGS. VERIFY SUITABILITY AND ADAPTABILITY OF ITEMS SPECIFIED IN RELATION TO DETAILS AND SURROUNDING CONDITIONS.

DOOR SCHEDULE

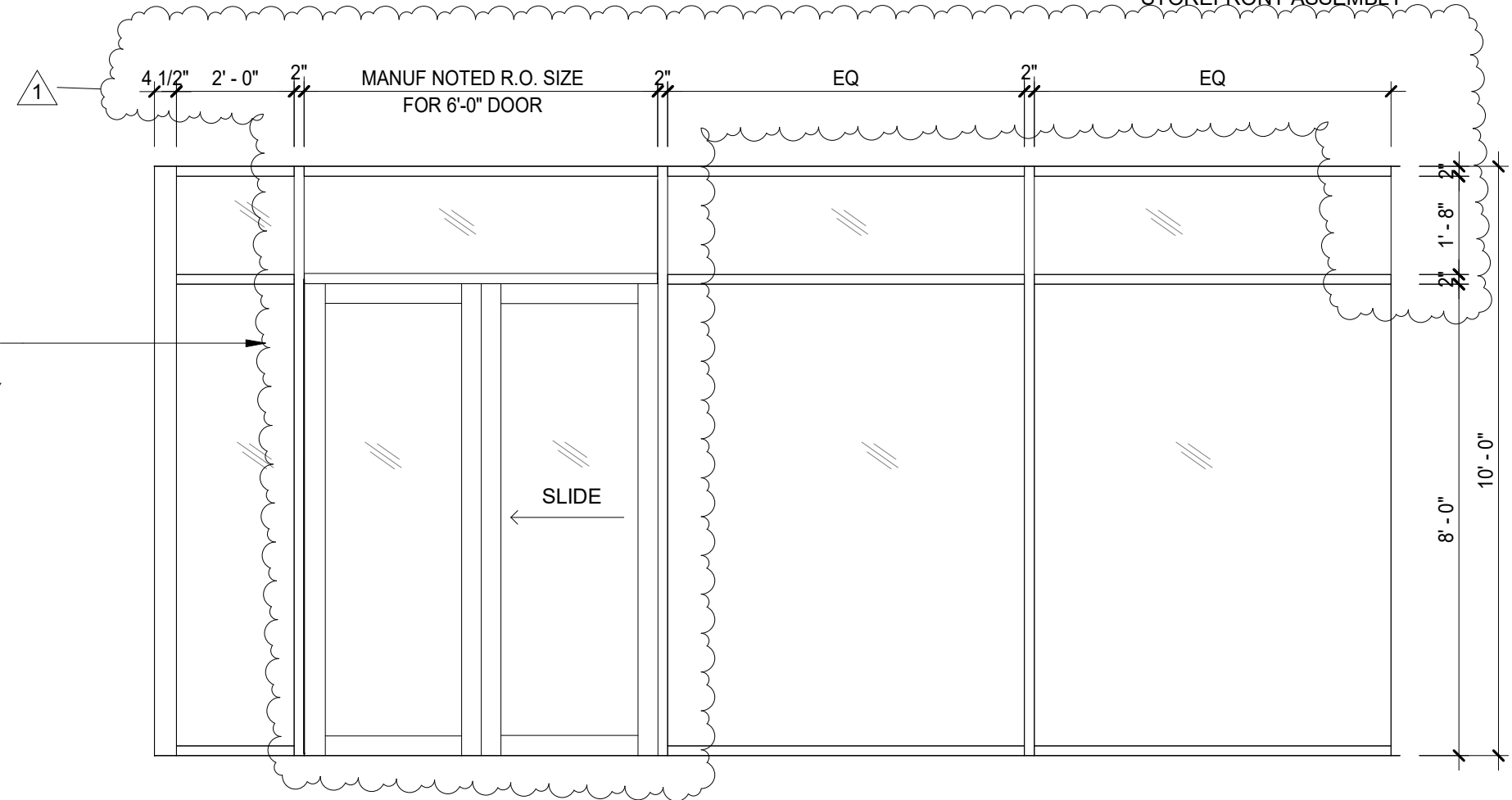
Door Number	LOCATION	DOOR			TYPE	DOOR		FRAME			DETAILS			FIRE RATING	HARDWARE	COMMENTS	
		WIDTH	HEIGHT	THICKNESS		MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL				
100A	C-STORE	SLIDING PAIR 3'-0"	8'-0"	0' - 1 3/4"	A	ALUM	ANODIZED			ALUM	ANODIZED					BY STOREFRONT MANUFACTURER	
100B	C-STORE	PAIR 3'-0"	8' - 0"	0' - 1 3/4"	AA	ALUM	ANODIZED			ALUM	ANODIZED						1
102	WOMENS TOILET	3' - 0"	7' - 0"	0' - 1 3/4"	B	WD	PAINT	B		HM	PAINT	1/A4.0	1/A4.0				2
103	MENS TOILET	3' - 0"	7' - 0"	0' - 1 3/4"	B	WD	PAINT	B		HM	PAINT	1/A4.0	1/A4.0			2	
104	DRY STORAGE	3' - 0"	7' - 0"	0' - 1 3/4"	B	WD	PAINT	B		HM	PAINT	1/A4.0	1/A4.0			3	
105A	LAUNDRY	3' - 0"	7' - 0"	0' - 1 3/4"	C	HM	PAINT	C		HM	PAINT					4	
105B	LAUNDRY	3' - 0"	7' - 0"	0' - 1 3/4"	C	HM	PAINT	C		HM	PAINT					5	
106	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	B	WD	PAINT	B		HM	PAINT					5	
107	EQUIPMENT ROOM	PAIR 3'-0"	8' - 0"	0' - 1 3/4"	E	E.P.I	E.P.I	E		E.P.I	E.P.I					7	
108A	ELECTRIC ROOM	3' - 6"	7' - 0"	0' - 1 3/4"	F	HM	PAINT	F		HM	PAINT					8	
108B	ELECTRIC ROOM	3' - 0"	7' - 0"	0' - 1 3/4"	C	HM	PAINT	C		HM	PAINT					5 SIM	
109	VACUUM ROOM	PAIR 3'-0"	8' - 0"	0' - 1 3/4"	E	E.P.I	E.P.I	E		E.P.I	E.P.I					7	
110A	WASH TUNNEL	14' - 6"	10' - 0"	0' - 1 1/2"	G	POLY-CARB					PREFINISHED					OH-1	
110B	WASH TUNNEL	14' - 6"	10' - 0"	0' - 1 1/2"	G	POLY-CARB					PREFINISHED					OH-1	
110C	WASH TUNNEL	14' - 6"	10' - 0"	0' - 1 1/2"	G	POLY-CARB					PREFINISHED					OH-1	
110D	WASH TUNNEL	14' - 6"	10' - 0"	0' - 1 1/2"	G	POLY-CARB					PREFINISHED					OH-1	
110E	WASH TUNNEL	3' - 0"	7' - 0"	0' - 1 3/4"	C	HM	PAINT	C		HM	PAINT					3	
110F	WASH TUNNEL	3' - 0"	7' - 0"	0' - 1 3/4"	C	HM	PAINT	C		HM	PAINT					3	



? DOOR AND FRAME TYPES
1/4" = 1'-0"



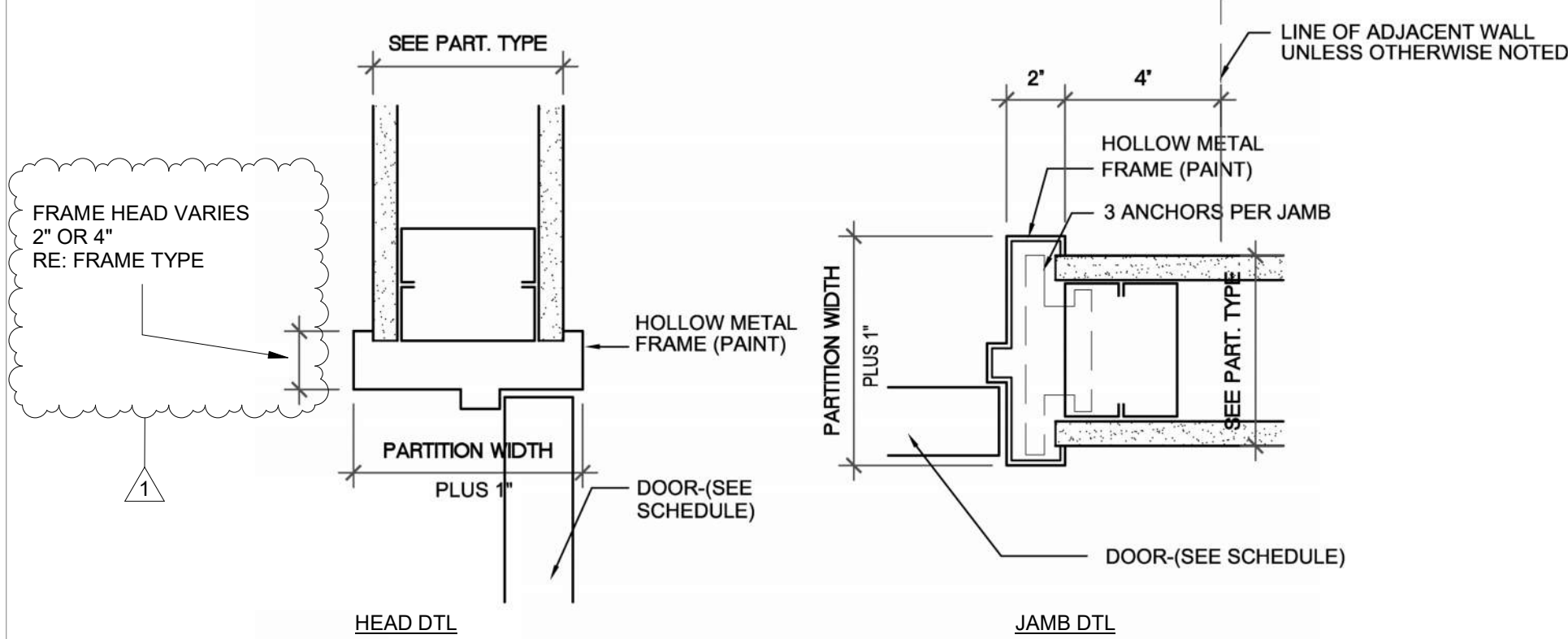
STOREFRONT TYPE GL-A



STOREFRONT TYPE GL-B

NOTE:
1. ALL GLASS TEMPERED

2 EXTERIOR WINDOW TYPES 3/8" = 1'-0"



1 GYP BD HEAD & JAMB DETAIL
1 1/2" = 1'-0"

STRUCTURAL ENGINEER

KREHER ENGINEERING, INC.
208 NORTH MAIN STREET,
SUITE H
COLUMBIA, IL 62236
PHONE: 618.281.8505
CONTACT: JIM KREHER

MEP ENGINEERING

G & W ENGINEERING
138 WELDON PARKWAY
MARYLAND HEIGHTS, MO 63043
PHONE: 314.469.3737
CONTACT:

The seal(s) and signature(s) apply only to the document to which they are affixed and we expressly disclaim any responsibility for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the project

Revisions:

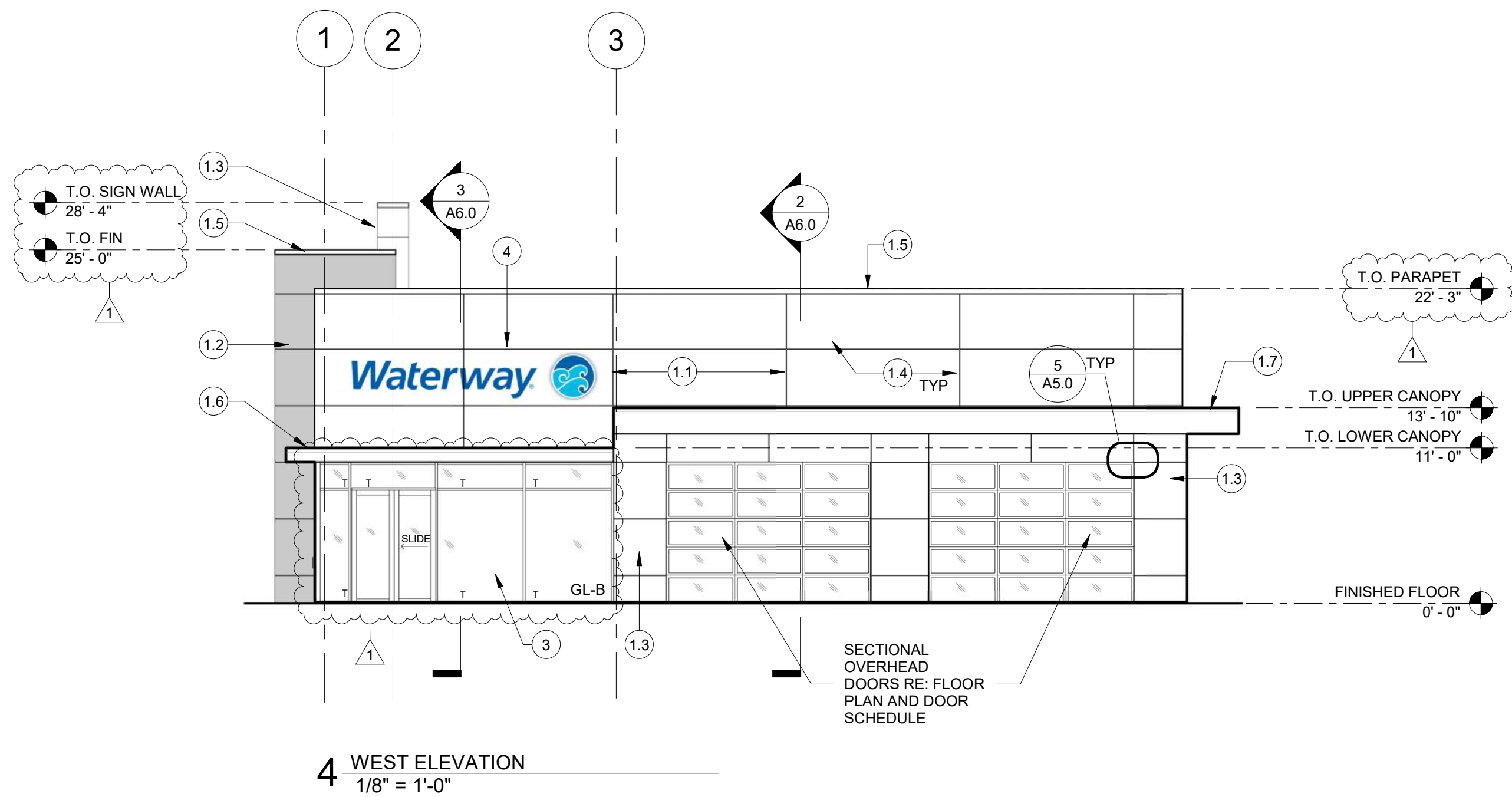
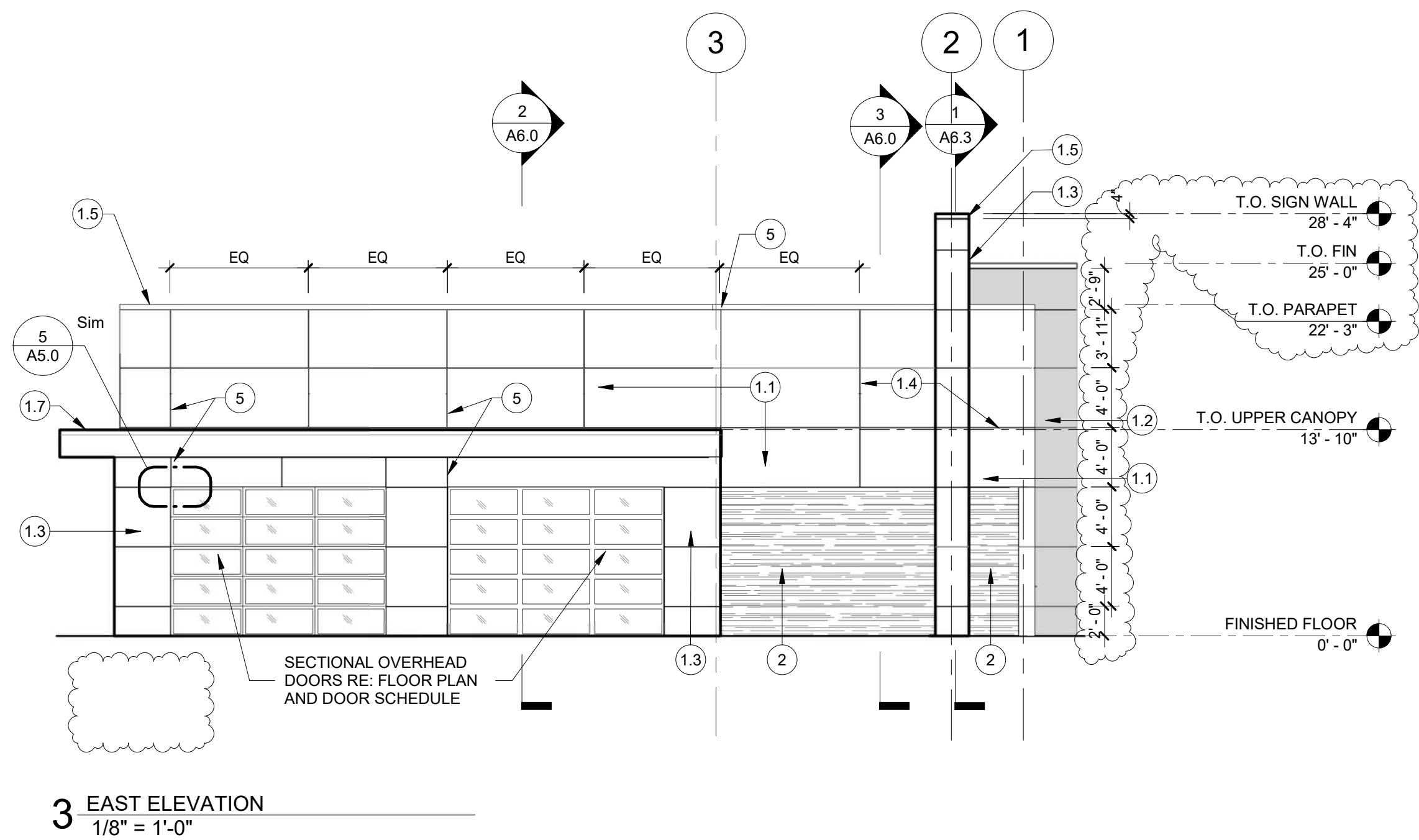
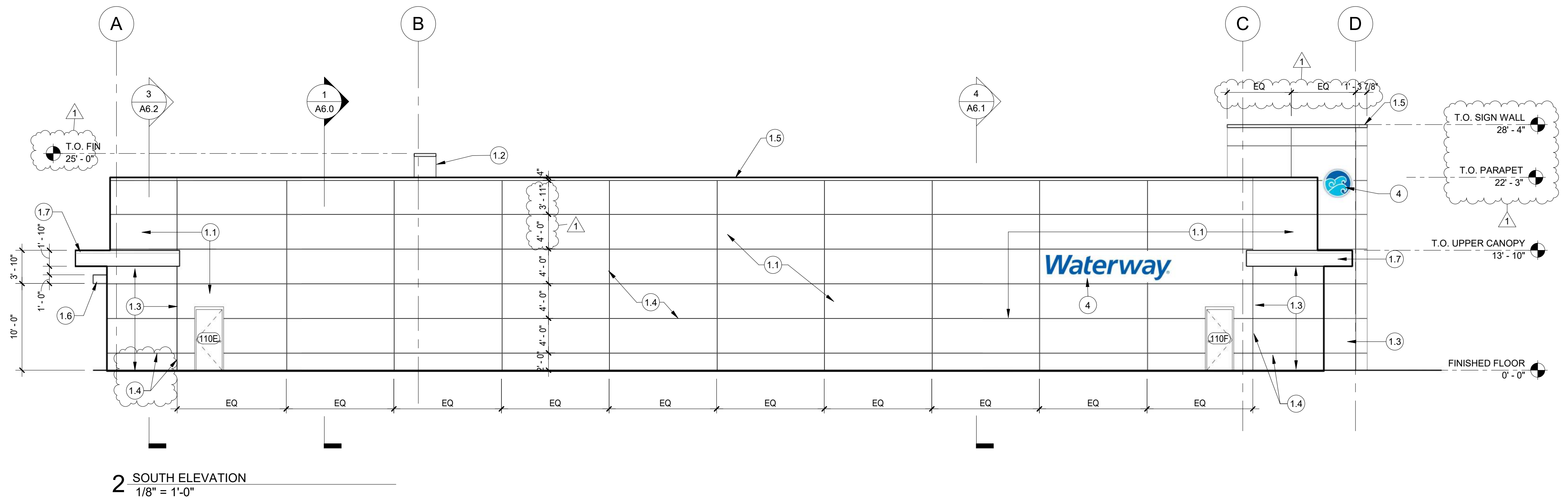
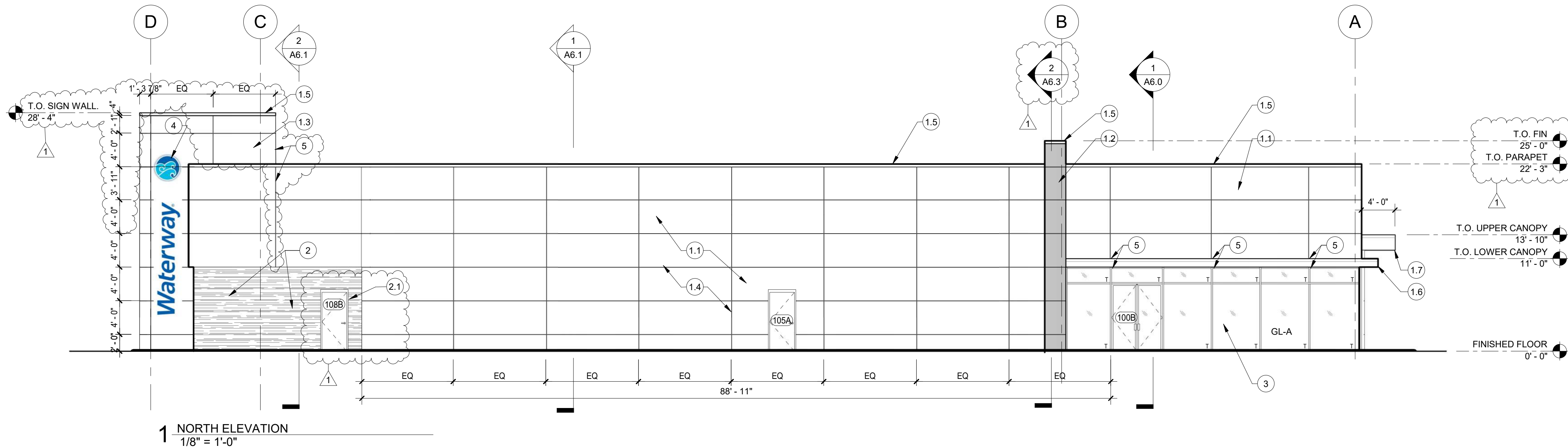
1 PERMIT COMMENTS 8/6/24

DOOR SCHEDULE & DETAILS

A4.0

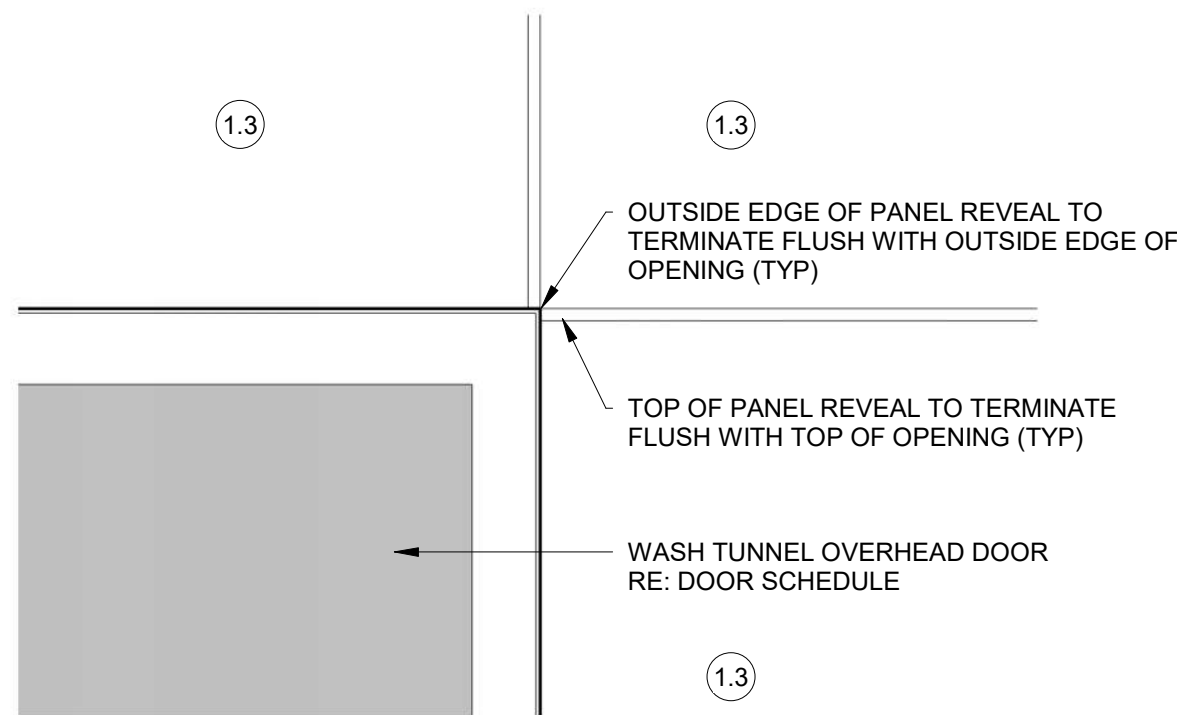
Issue Date: 05/31/2024

Issue Date: 05/31/2024



ELEVATION KEYED NOTES	
NOTE NUMBER	NOTE
1.1	PREFINISHED ALUMINUM COMPOSITE PANEL SYTEM (M-1)
1.2	PREFINISHED ALUMINUM COMPOSITE PANEL SYTEM (M-2)
1.3	PREFINISHED ALUMINUM COMPOSITE PANEL SYTEM (M-3)
1.4	ACP REVEAL (TYP)
1.5	PREFINISHED ACP PARAPET CAP - MATCH ACP TYPE
1.6	PREFINISHED ACP CANOPY 1
1.7	PREFINISHED ACP CANOPY 2
2	NICHIHA WALL PANEL ASSEMBLY, WOOD SERIES, VINTAGEWOOD, CEDAR 9 (M-5)
2.1	NICHIHA DEEPER J-MOLD AROUND PERIMETER OF DOOR
3	1\"
4	SIGNAGE BY OWNER
5	ALIGN
MATERIAL LEGEND	
M-1	PREFINISHED ALUMINUM COMPOSITE PANEL SYSTEM AND PARAPET CAP ALPOLIC, BNT WHITE (WP), #052119
M-2	PREFINISHED PANEL SYSTEM CUSTOM COLOR CAYMAN BLUE
M-3	PREFINISHED PANEL SYSTEM REYNOBOND, COLORWELD 300, MIDNIGHT BLUE, R4CW3MBFR
M-4	PREFINISHED PANEL SYSTEM REYNOBOND, COLORWELD 500XL, BRIGHT SILVER MET., R84CW5XBSM
M-5	PREFINISHED PANEL SYSTEM NICHIHA, WOOD SERIES, VINTAGEWOOD, CEDAR
M-6	COMPOSITE BOARD NEWTech WOOD, ULTRA SHIELD NATURALS, US07, TEAK, H6

- NOTES:
- COMPOSITE PANEL MANUFACTURER TO SUPPLY COIL STOCK FOR ALL FABRICATED SHEET METAL DETAILING.
 - ALL METAL PANELS TO HAVE FACTORY EDGE AND CORNERS. TRIMMING/BENDING IN THE FIELD IS NOT ACCEPTABLE
 - ALL PARAPETS & CANOPIES TO HAVE PRE-MANUFACTURED ALUMINUM COMPOSITE PARAPET CAP UNO. FIELD BENT METAL IS NOT AN ACCEPTABLE COPING CAP
 - ALL NICHIHA TO HAVE PREFINISHED FACTORY OUTSIDE CORNERS
 - CONTRACTOR TO COORDINATE COMPOSITE PANEL JOINTS WITH ARCH PRIOR TO FABRICATION



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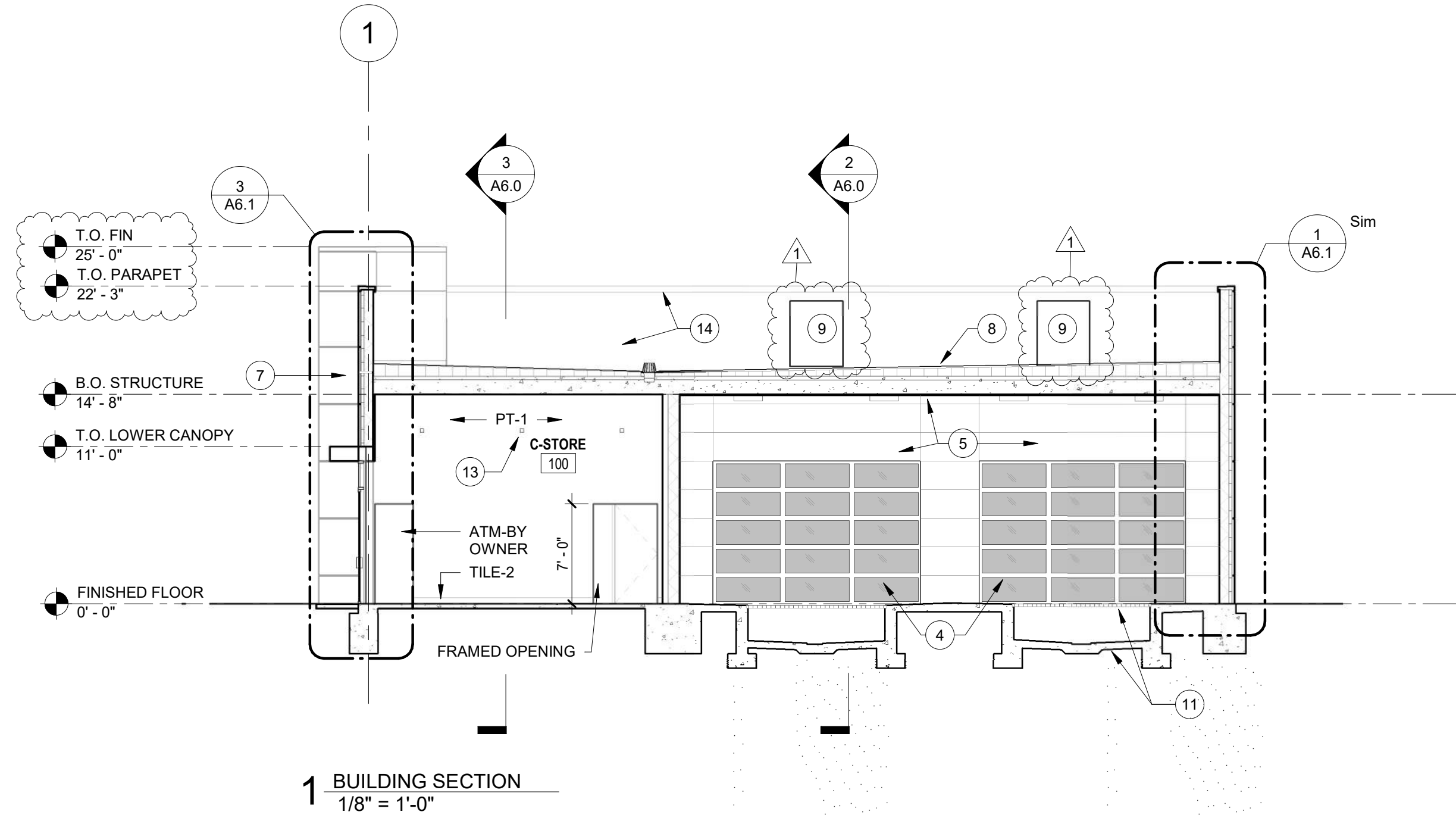
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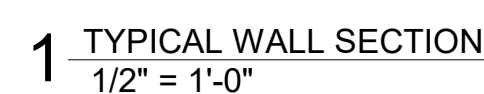
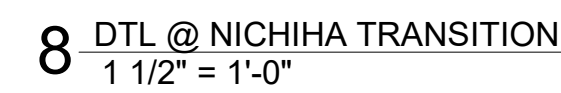
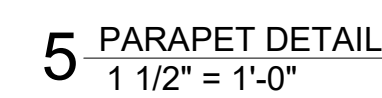
Revisions:	
1	PERMIT COMMENTS 8/6/24

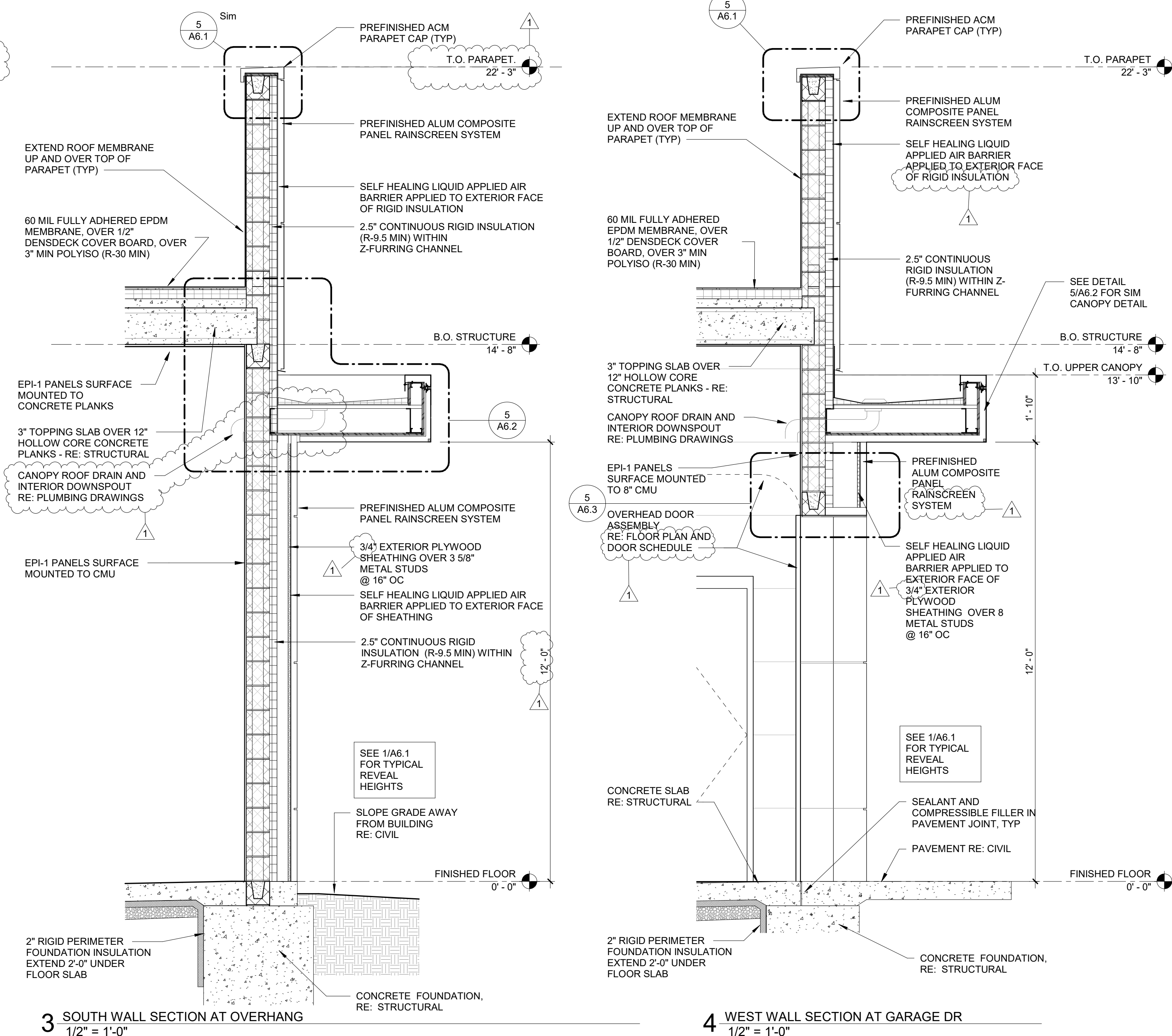
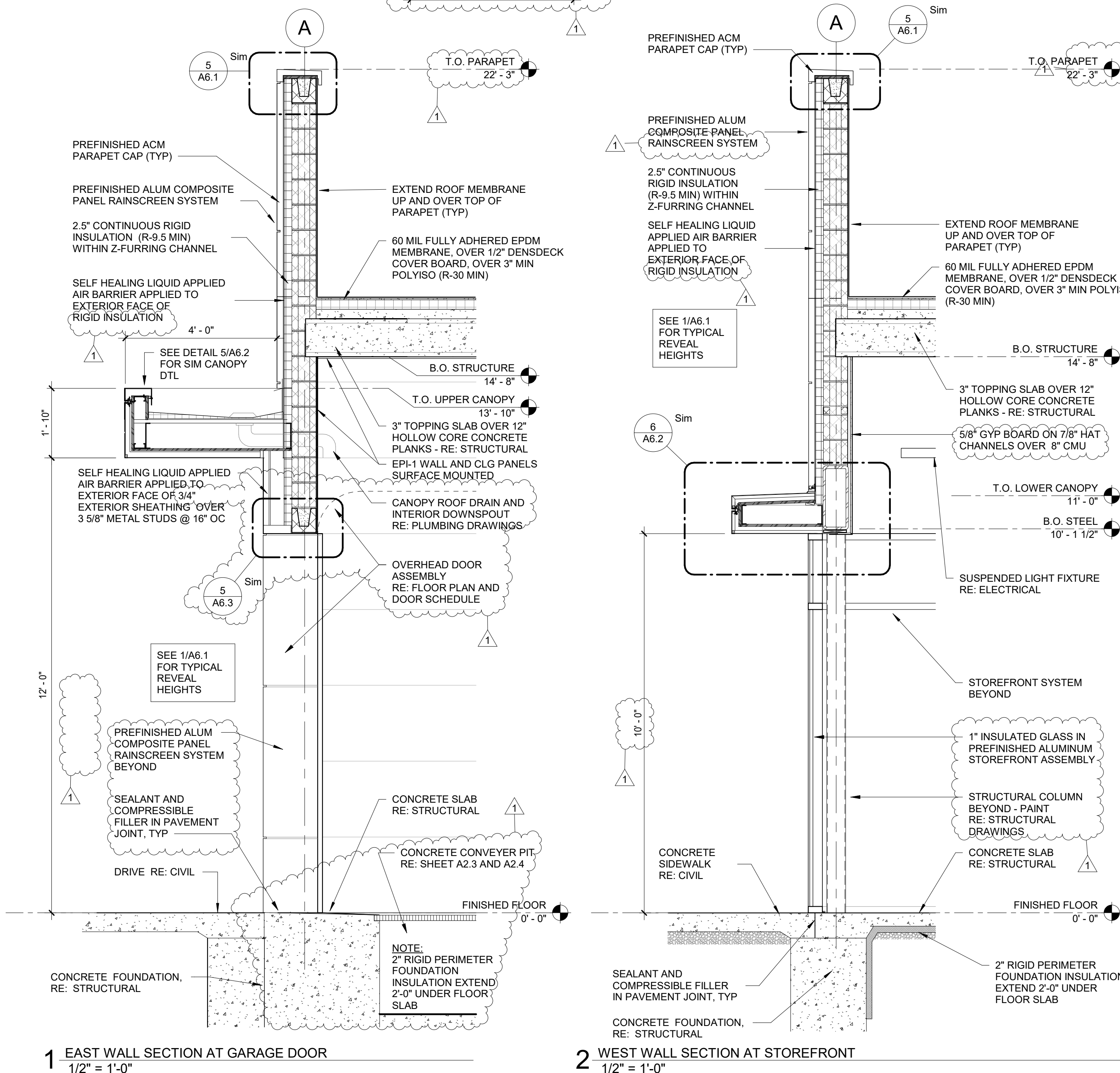
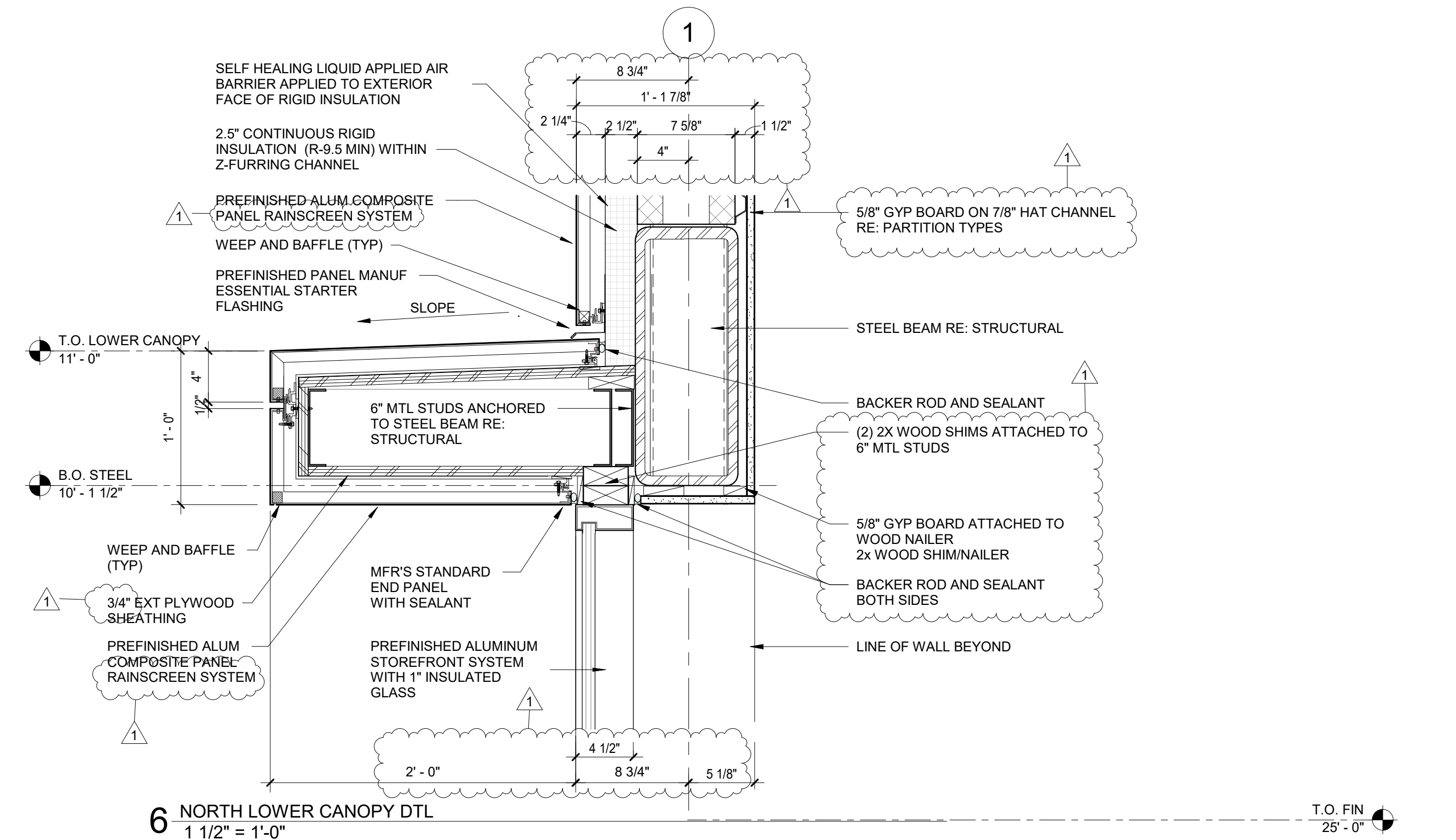
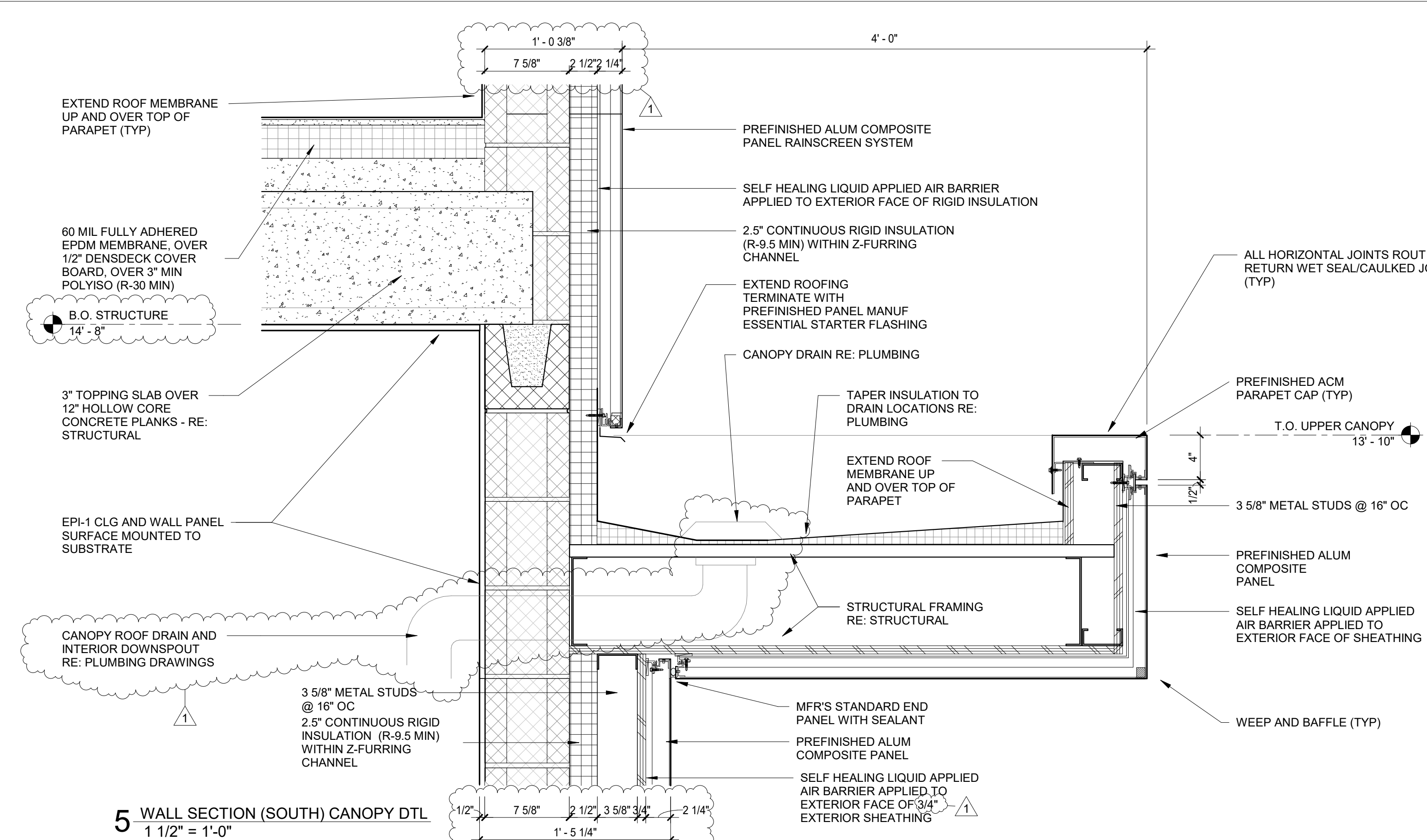
EXTERIOR ELEVATIONS

A5.0

Issue Date: 05/31/2024





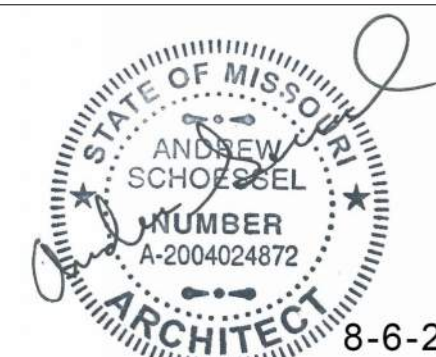


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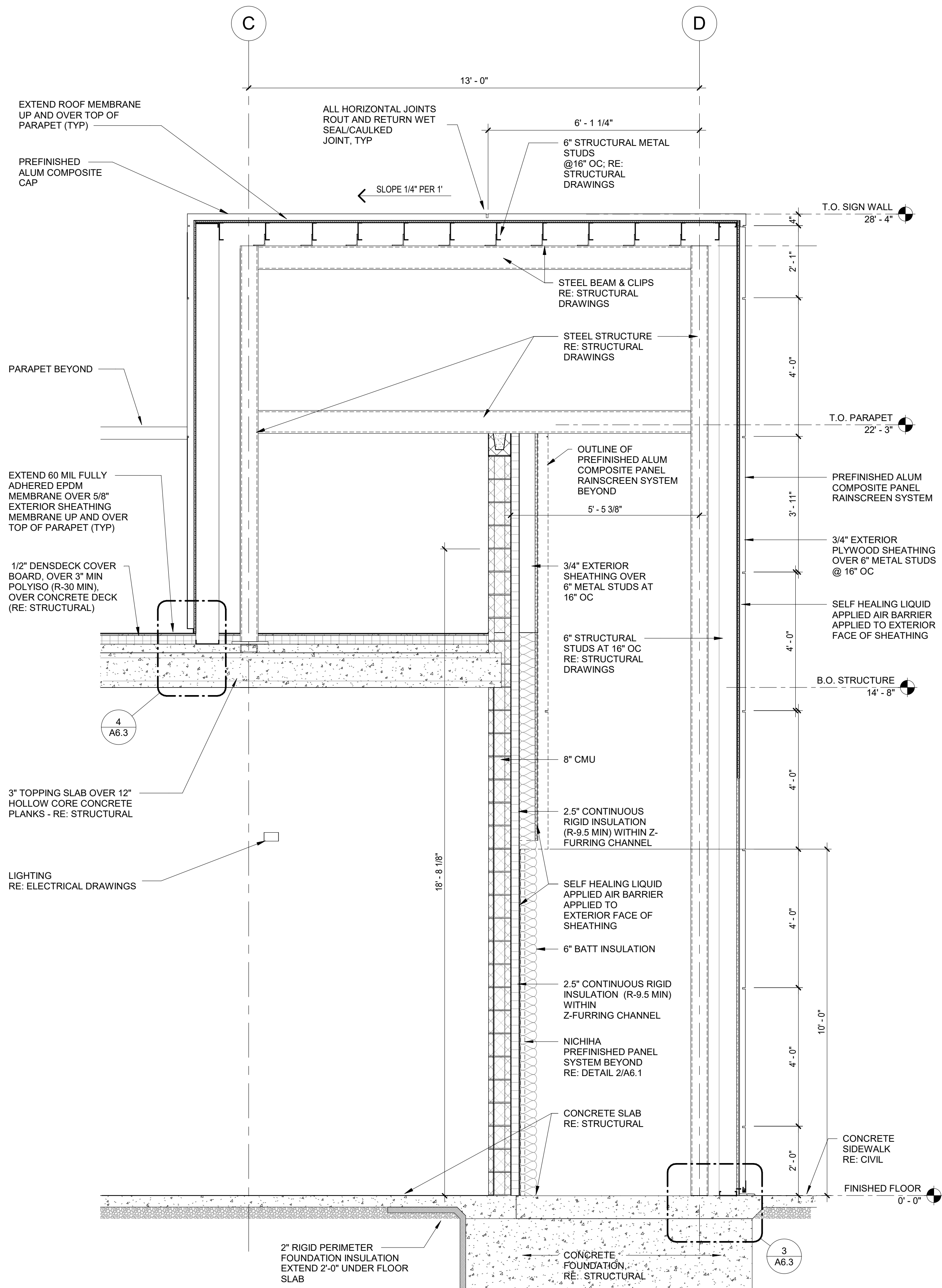
Revisions:

1 PERMIT COMMENTS 8/6/24

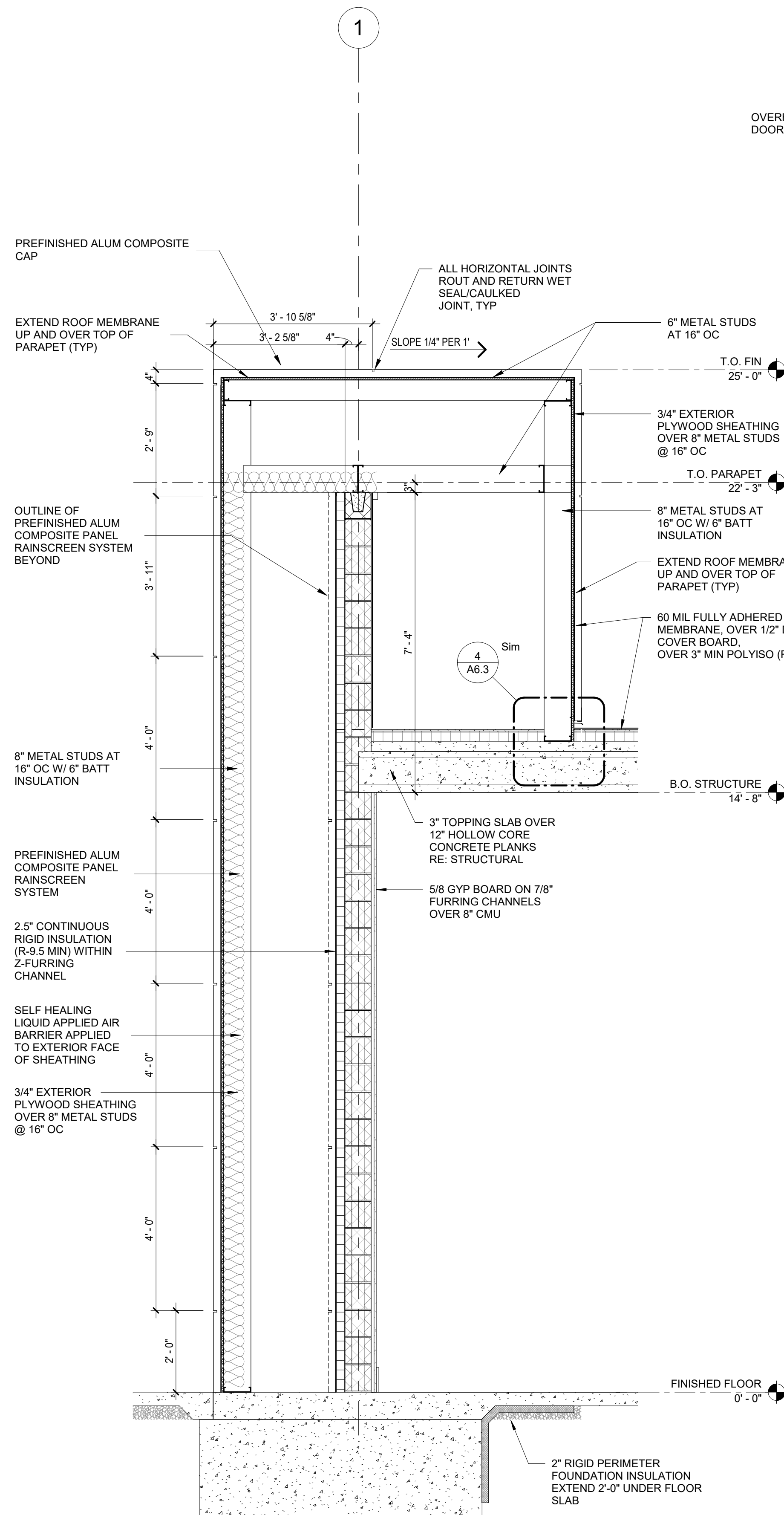
SECTION DETAILS

A6.2

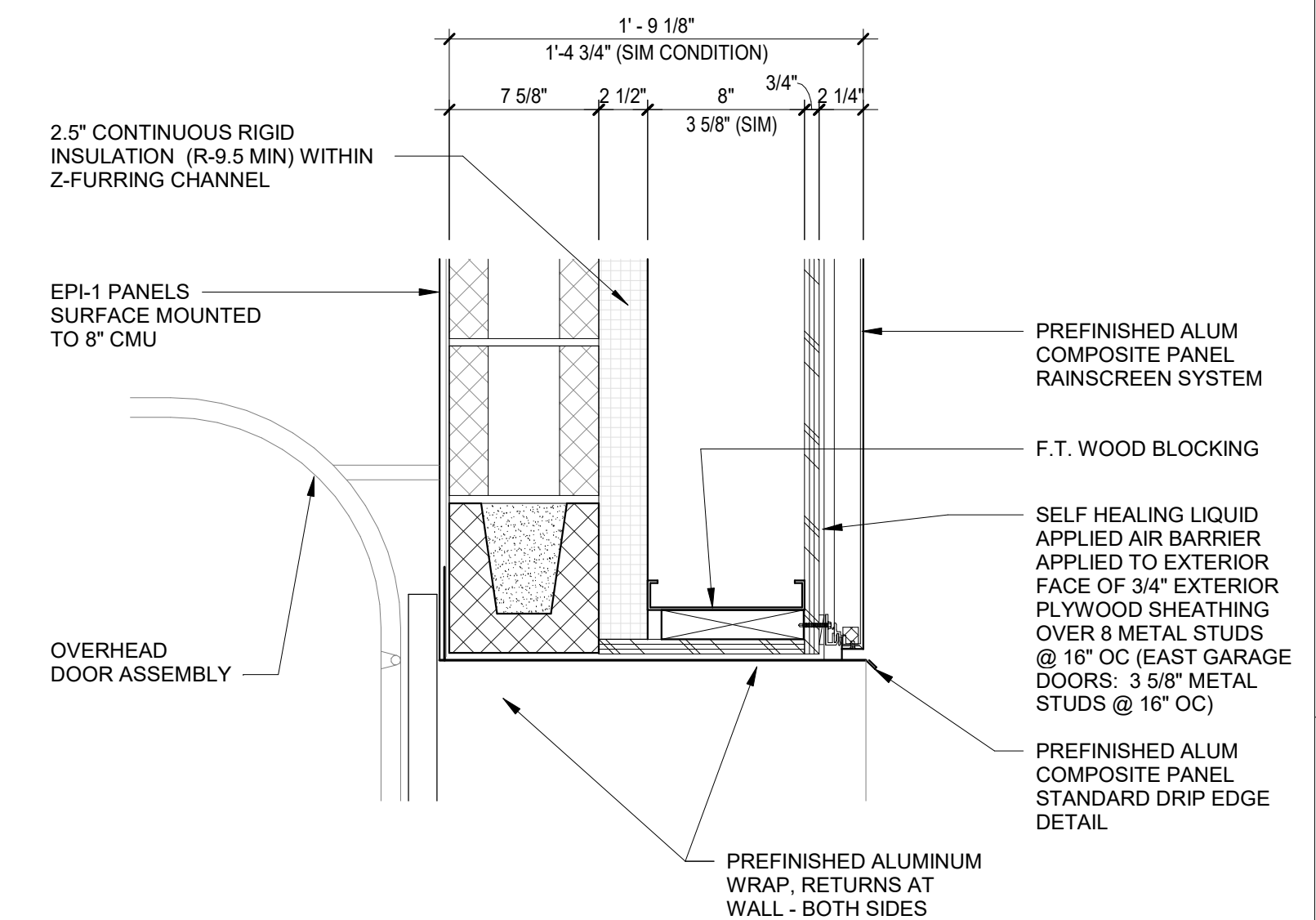
Issue Date: 05/31/2024



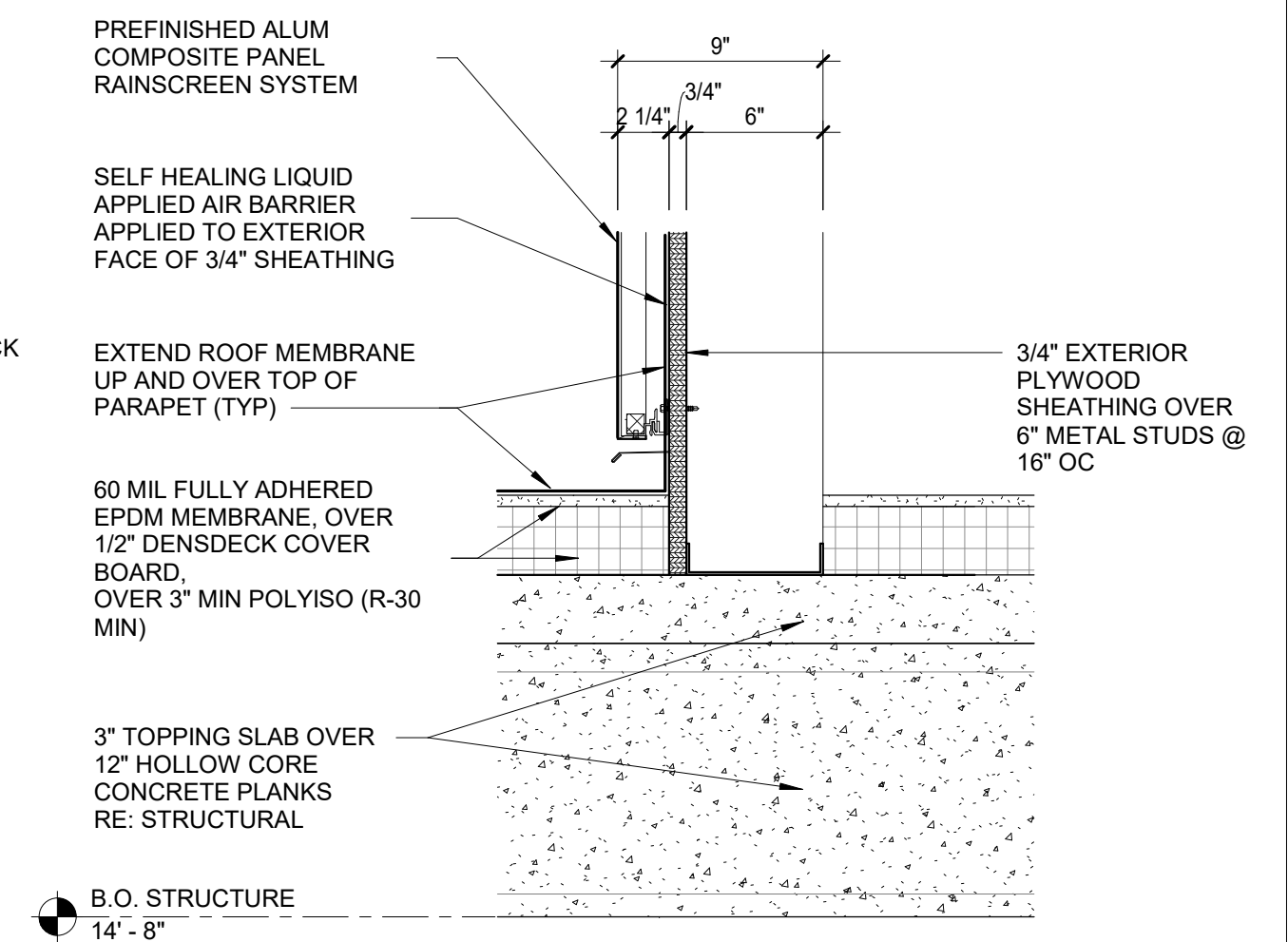
1 WALL SECTION AT SIGN WALL
1/2" = 1'-0"



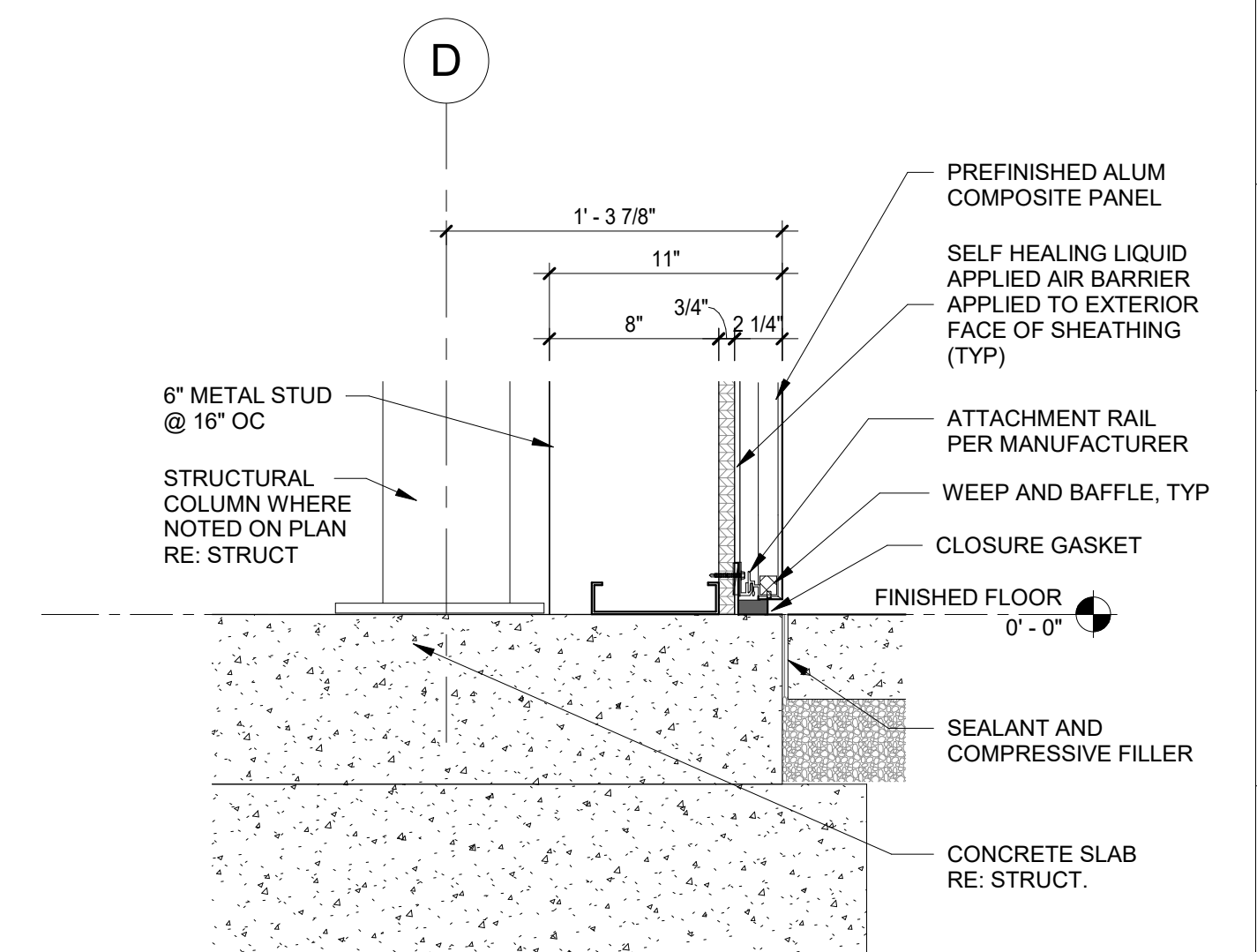
2 Section at North Element
1/2" = 1'-0"



5 DETAIL AT WEST GARAGE DOORS
1 1/2" = 1'-0"



4 ROOF DETAIL
1 1/2" = 1'-0"



3 SILL DETAIL AT SIDEWALK
1 1/2" = 1'-0"

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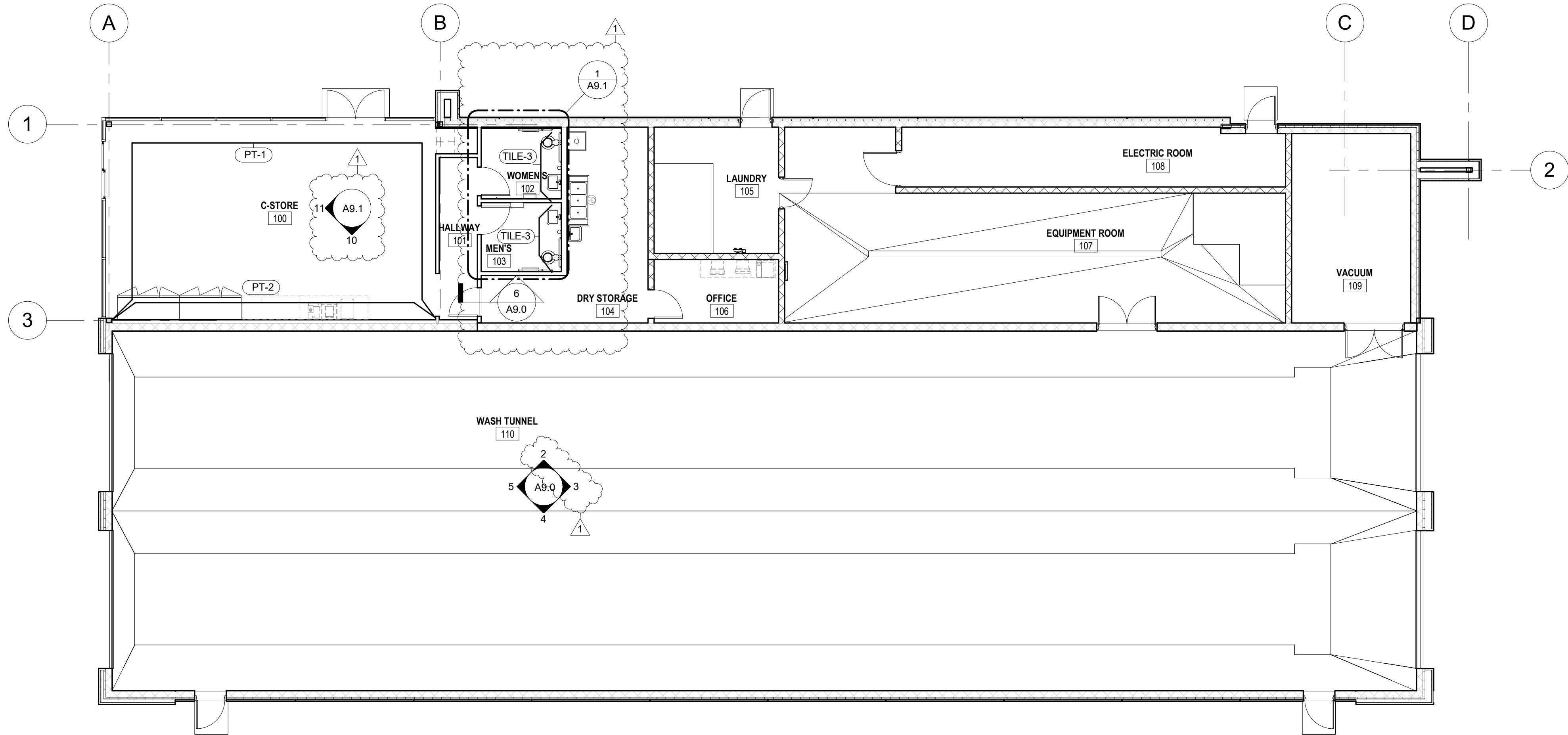
Revisions:

1 PERMIT COMMENTS 8/6/24

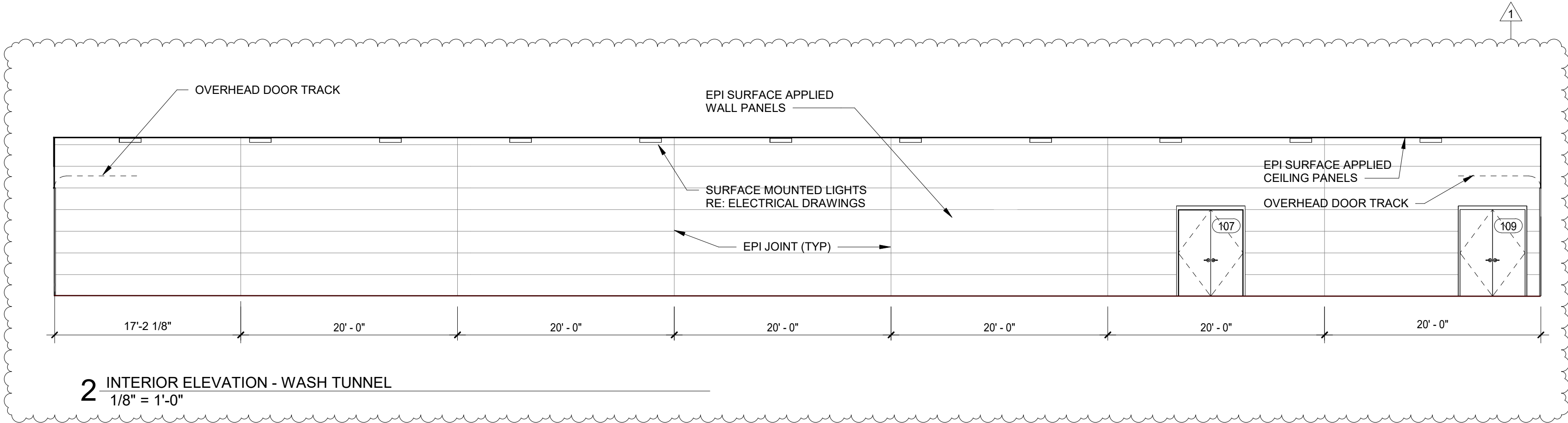
WALL SECTIONS & DETAILS

A6.3

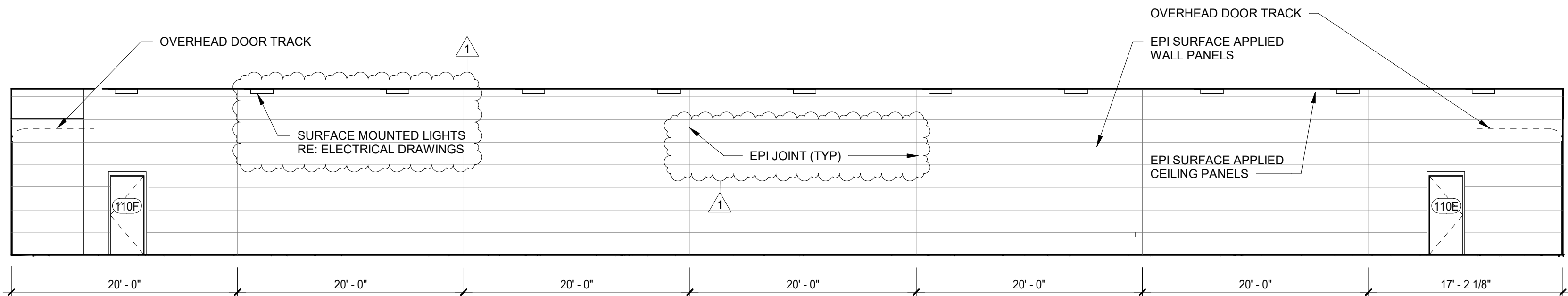
Issue Date: 05/31/2024



1 FINISH FLOOR PLAN
1/8" = 1'-0"



2 INTERIOR ELEVATION - WASH TUNNEL
1/8" = 1'-0"



4 INTERIOR ELEVATION - WASH TUNNEL
1/8" = 1'-0"

ROOM FINISH SCHEDULE							
ROOM NUMBER	NAME	FLOOR FINISH	BASE	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENTS
100	C-STORE	TILE-1	TILE-2	PT-1/PT-2	PT-3	14'-8"	
101	HALLWAY	TILE-1	TILE-2	PT-1	PT-3	9'-0"	
102	WOMEN'S	TILE-1	TILE-2	TILE-3/PT-1	PT-3	9'-0"	RE INTERIOR ELEVATIONS AND FINISH PLAN
103	MEN'S	TILE-1	TILE-2	TILE-3/PT-1	PT-3	9'-0"	RE INTERIOR ELEVATIONS AND FINISH PLAN
104	DRY STORAGE	EPXY-1	WB-1	PT-1	ACT-1	9'-0"	
105	LAUNDRY	SC-1	WB-1	PT-1	PT	14'-8"	
106	OFFICE	TILE-1	TILE-2	PT-1	ACT-1	9'-0"	
107	EQUIPMENT ROOM	SC-1		PT-1	PT	14'-8"	
108	ELECTRIC ROOM	SC-1		PT-1	PT	14'-8"	
109	VACUUM	SC-1		PT-1	PT	14'-8"	
110	WASH TUNNEL	CONC-1	EPI-1	EPI-1	EPI-1	14'-8"	

INTERIOR FINISH LEGEND

TILE	
TILE-1 (FLOOR)	BEAVER TILE AIR SERIES COLOR: FINISH: SIZE: INSTALL: GROUT: NOTE:
TILE-2 (BASE)	TILE-1 SIZE: 6"X12"
TILE-3 (WALL TILE IN BATHROOM)	AMERICAN OLEAN COLOR STORY WALL COLOR: SIZE: INSTALL: GROUT: NOTE:

VINYL WALL BASE		
WB-1	FLEXCO COLOR: SIZE:	STONE 024 4" COVE

PLASTIC WALL PANELS	
EPI-1	EXTRUTECH PLASTICS, INC P2400 FLAT PANELS SIZE: COLOR: LOCATION:

ACOUSTICAL CEILING TILE	
ACT-1	ARMSTRONG CIRRUS BEVELED TEGULAR SIZE: COLOR: LOCATION:

GROUT

GR-1	CUSTOM BUILDING PRODUCTS COLOR: GRAYSTONE #542
GR-2	TEC ACCUCOLOR COLOR: CHARCOAL #929

SEALED CONCRETE

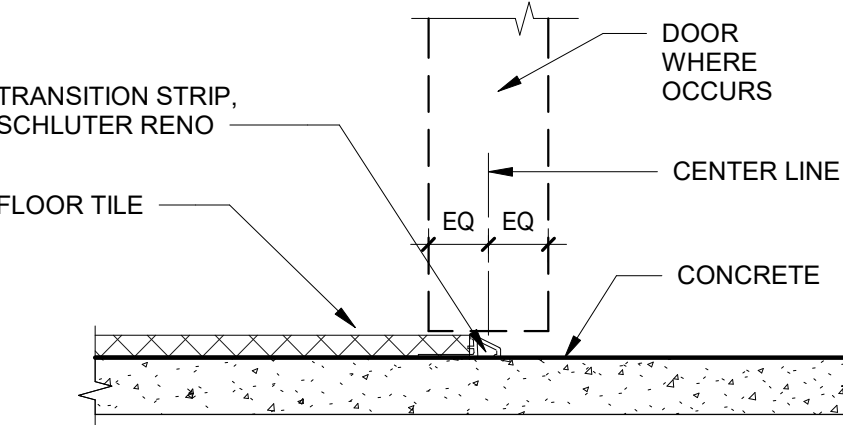
SC-1	SEALED CONCRETE LOCATION: AS NOTED ON DRAWINGS
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EPOXY

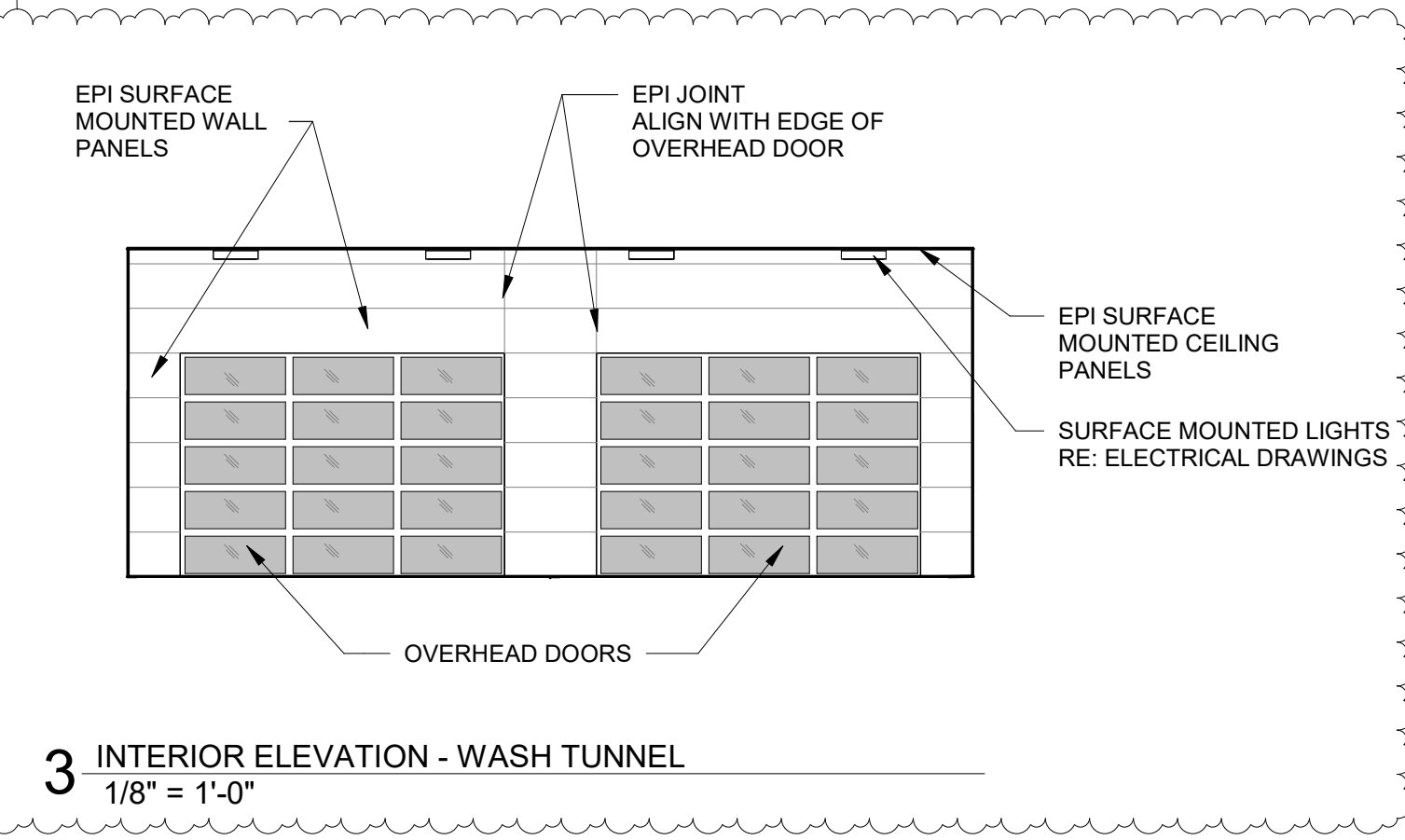
EPXY-1

PAINT

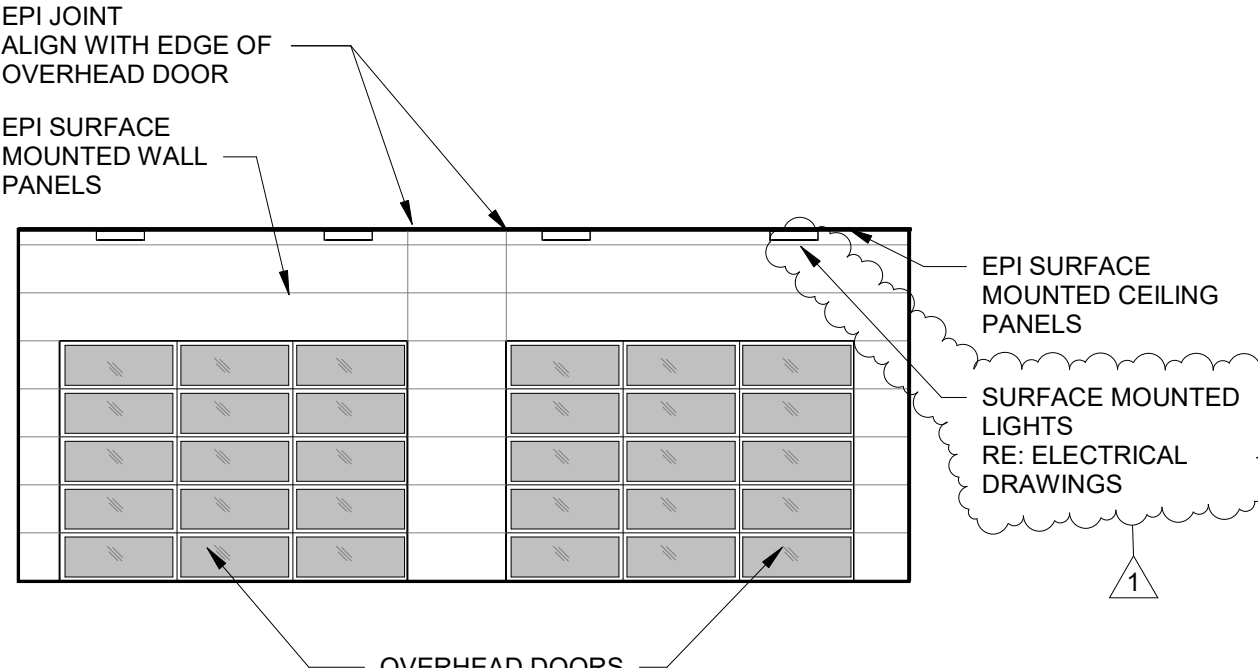
PT-1 (WALLS)	BENJAMIN MOORE COLOR: 0C-17 WHITE DOVE
PT-2 (ACCENT)	BENJAMIN MOORE COLOR: 2063-10 OLD NAVY
PT-3 (CEILING)	BENJAMIN MOORE COLOR: 0C-17 WHITE DOVE



6 FLOOR TRANS - CONCRETE TO TILE
3" = 1'-0"



3 INTERIOR ELEVATION - WASH TUNNEL
1/8" = 1'-0"



5 INTERIOR ELEVATION - WASH TUNNEL
1/8" = 1'-0"

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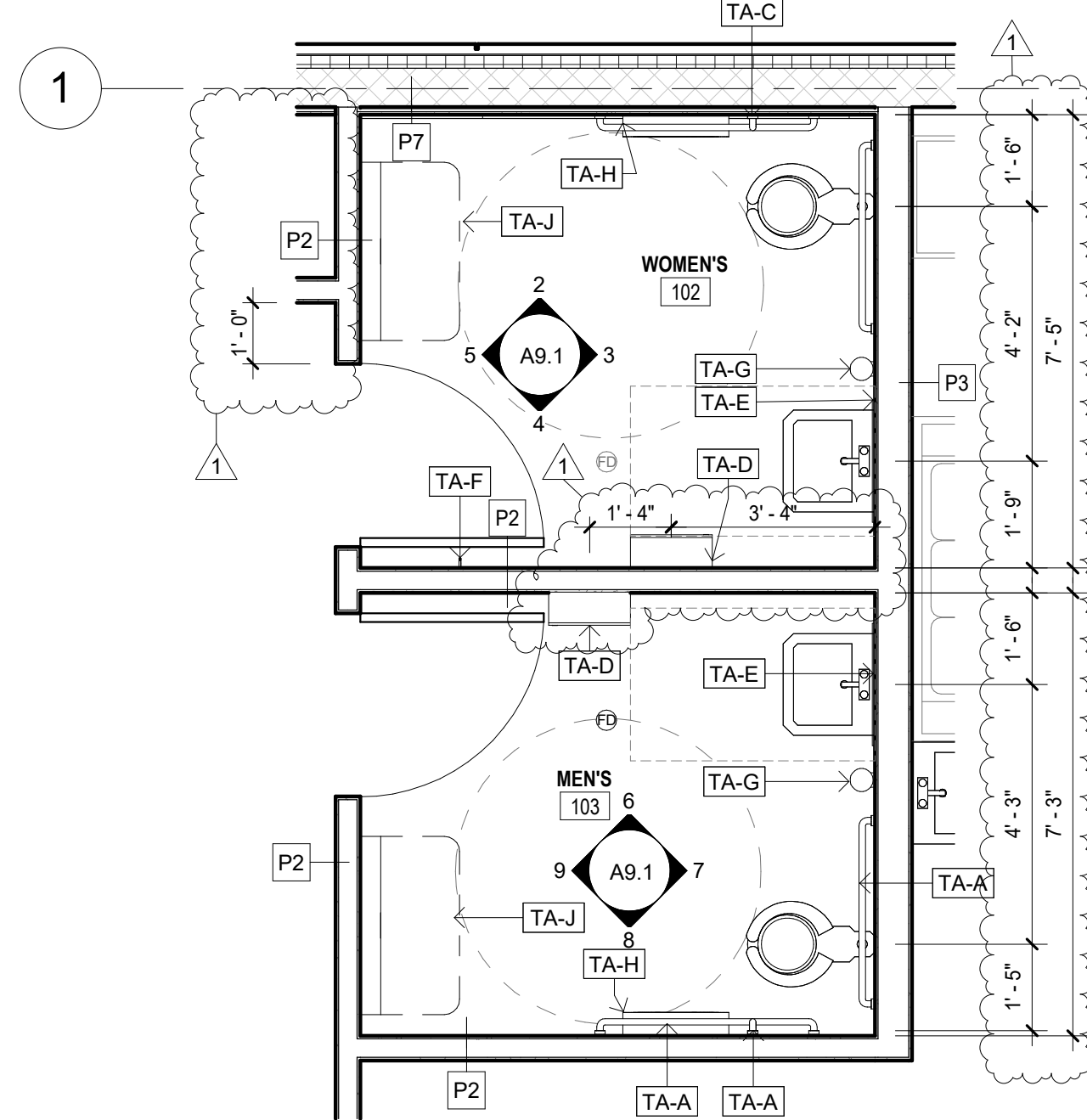
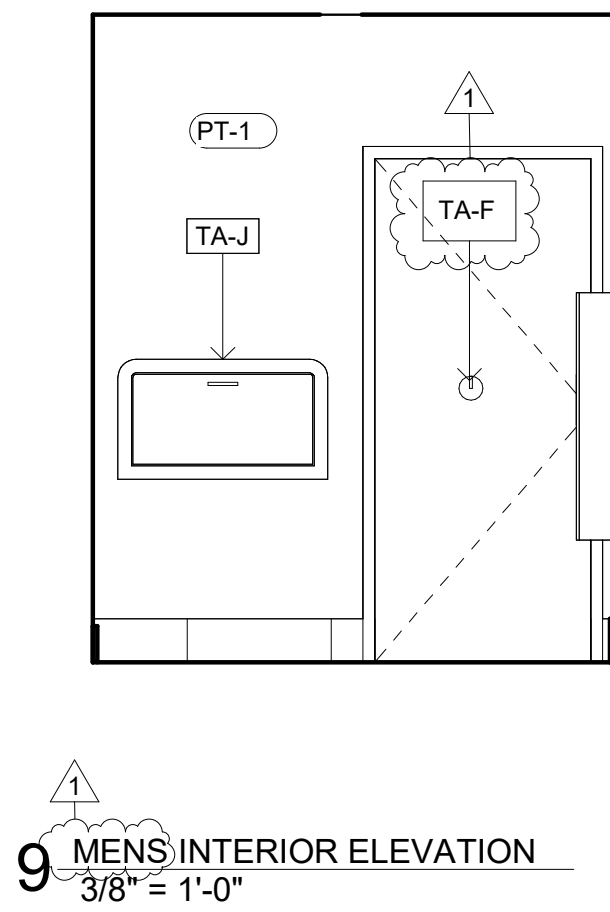
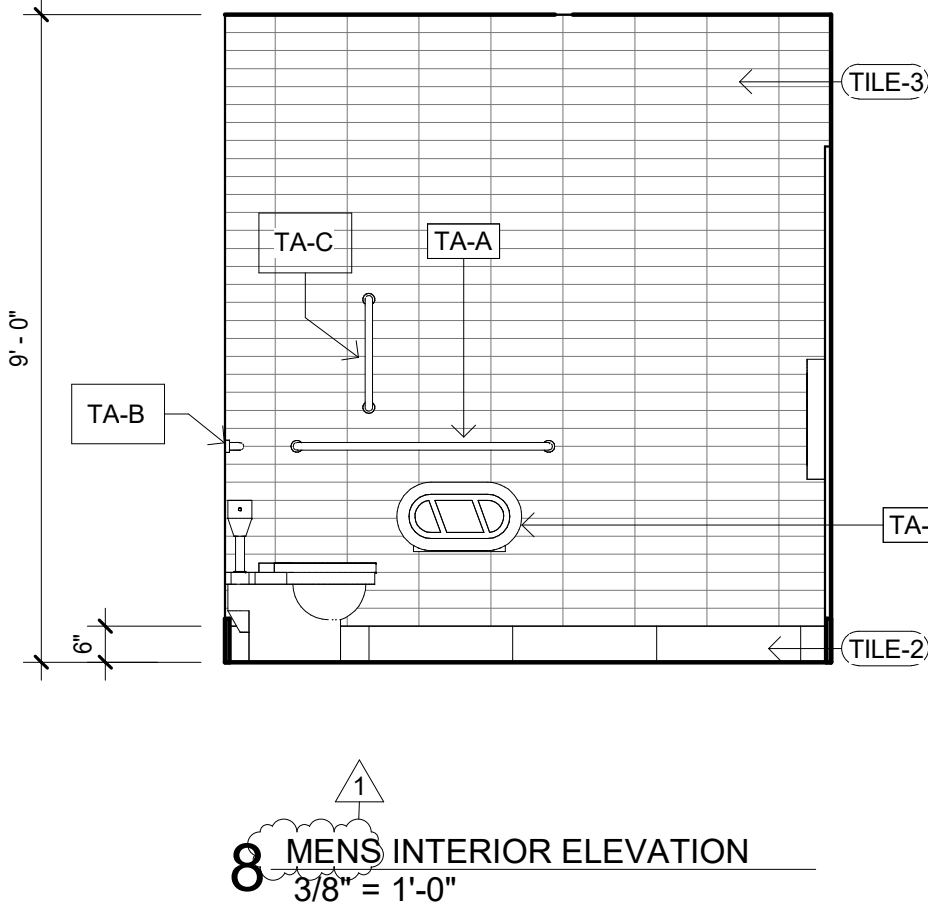
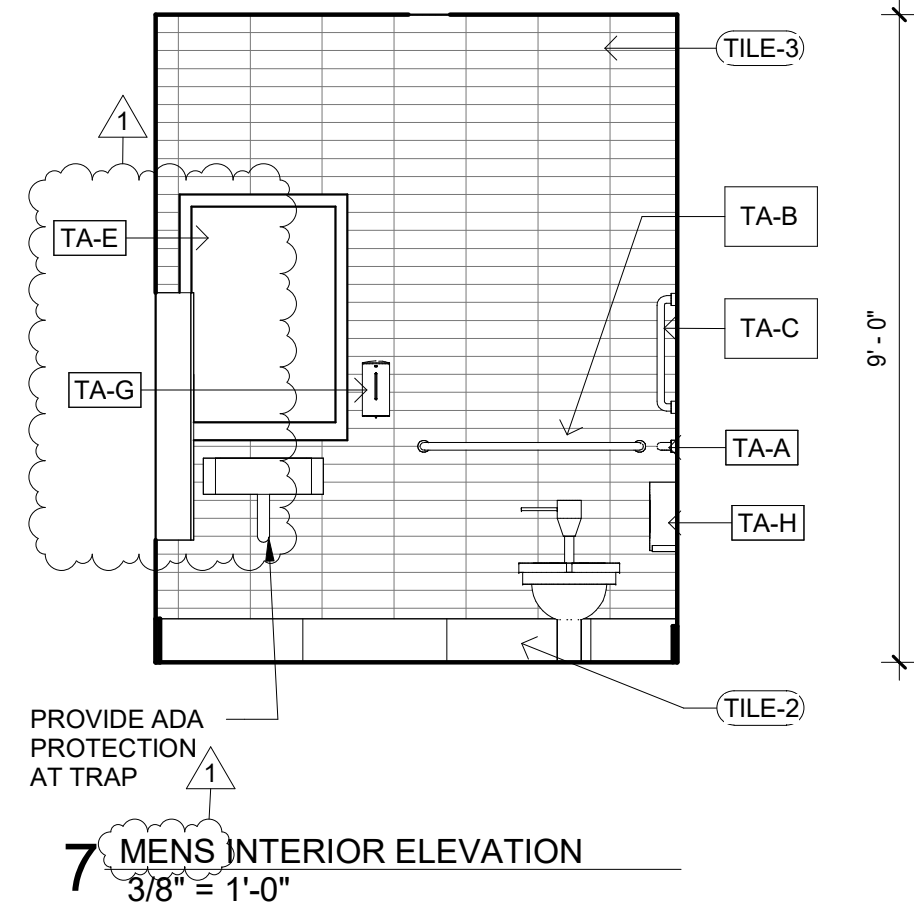
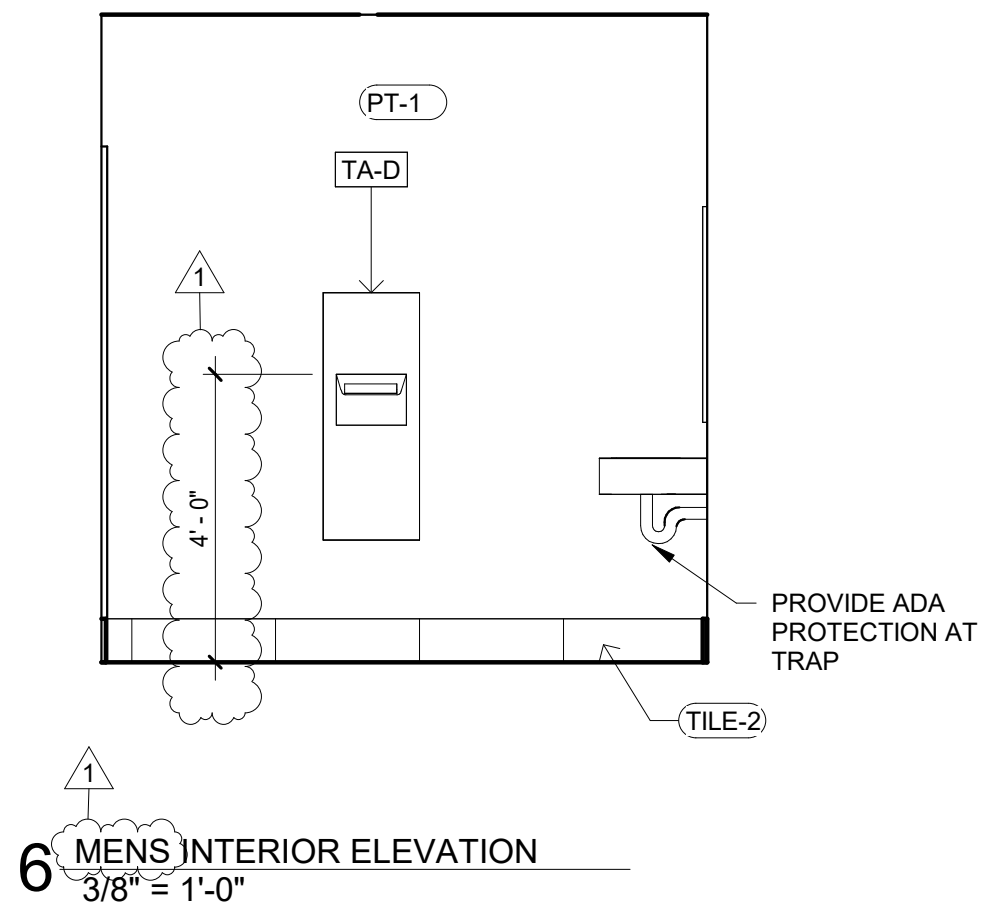
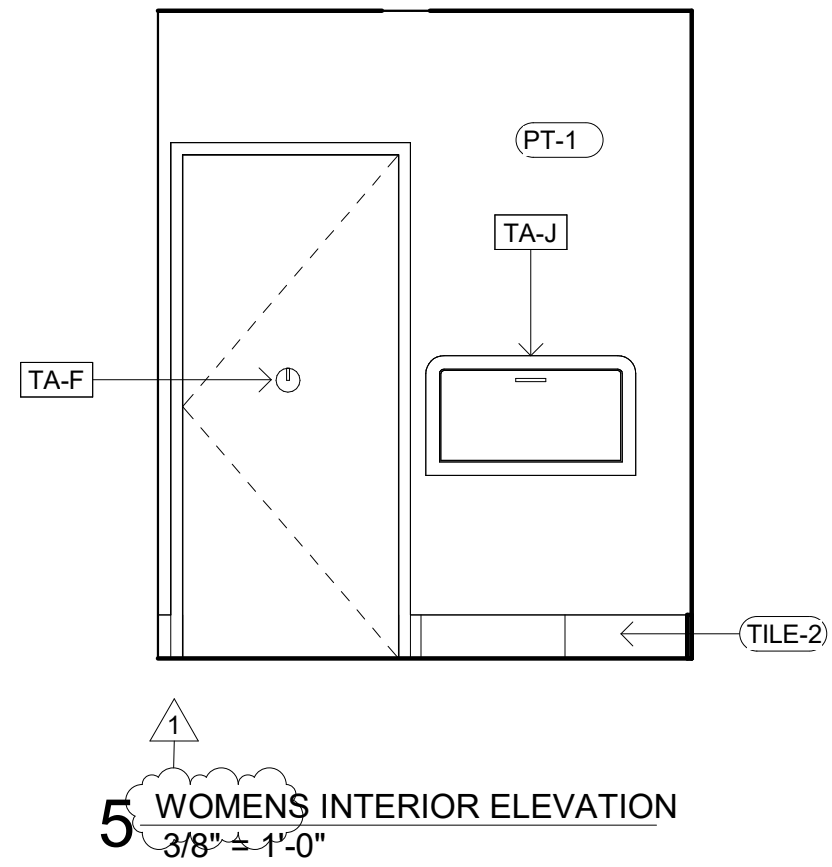
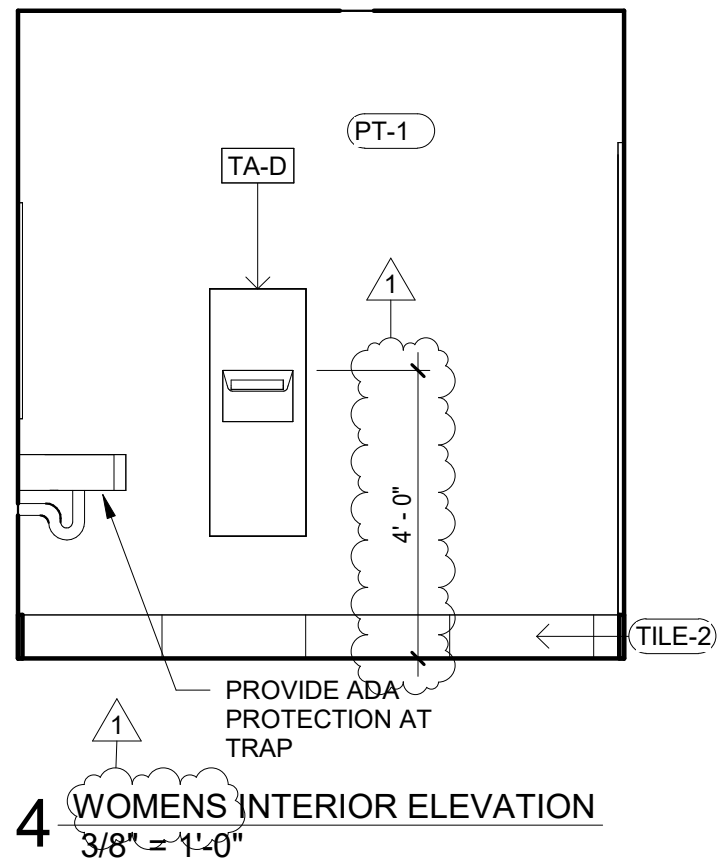
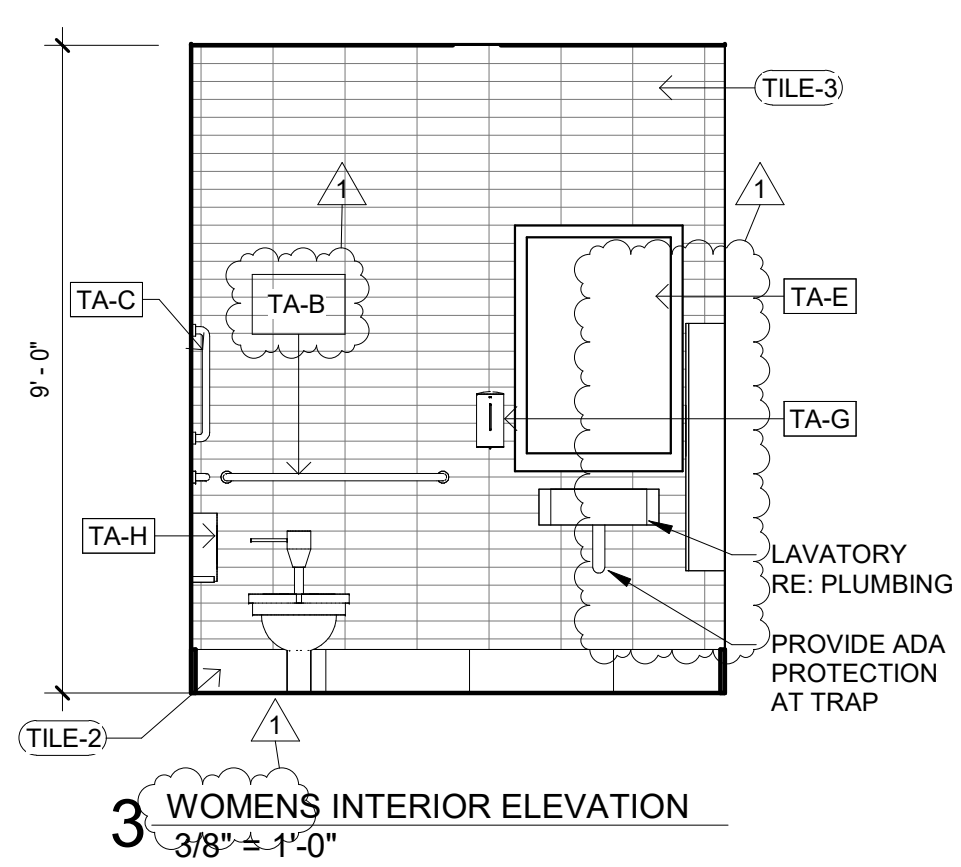
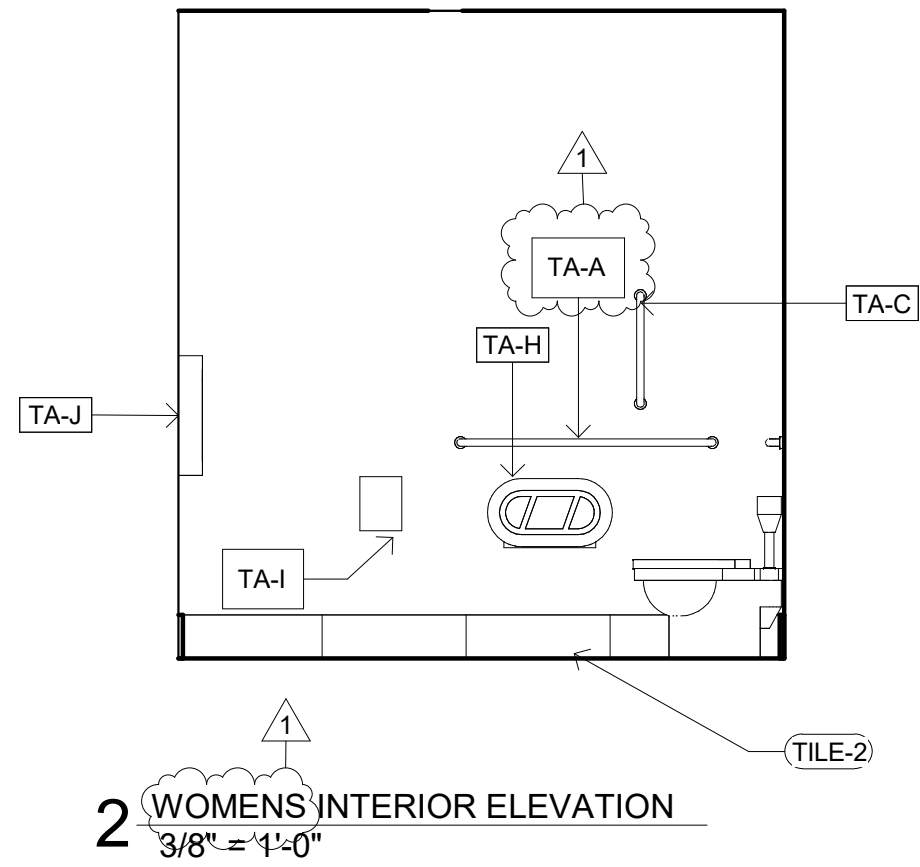
Revisions:

1 PERMIT COMMENTS 8/6/24

FINISH FLOOR PLAN

A9.0

Issue Date: 05/31/2024



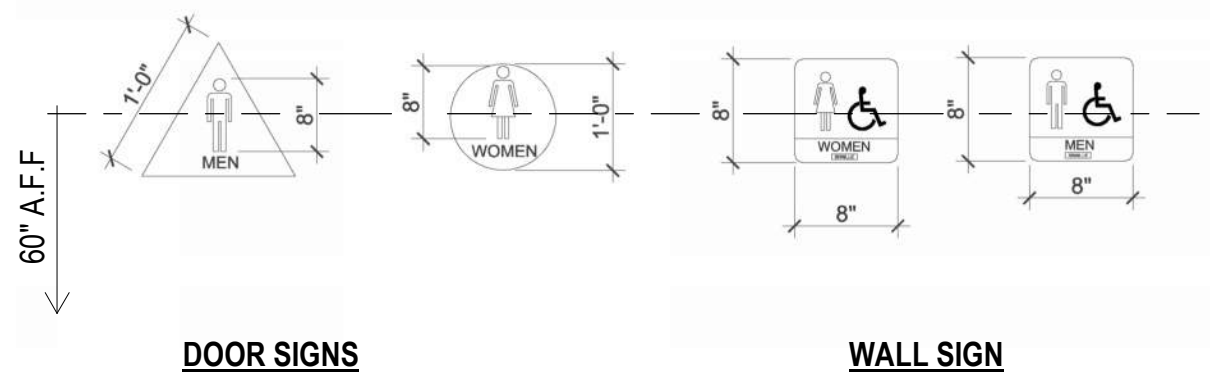
1 WOMEN'S - ENLARGED PLAN
3/8" = 1'-0"

TOILET ROOM ACCESSORIES

SYMBOL	ITEM	MFG	MODEL
TA-A	GRAB BARS (CONCEALED ANCHORS)	ASI	3700 42"
TA-B	GRAB BARS (CONCEALED ANCHORS)	ASI	3700 36"
TA-C	GRAB BARS (CONCEALED ANCHORS)	ASI	3700 18"
TA-D	PAPER TOWEL DISPENSER / TRASH CAN SEMI-RECESSED NOTE: OWNER TO PROVIDE	ASI	64696A-6
TA-E	MIRROR	ASI	0620
TA-F	COAT HOOKS	ASI	7308
TA-G	AUTOMATIC SOAP DISPENSER NOTE: OWNER TO PROVIDE	ASI	0360
TA-H	TOILET PAPER DISPENSER (SURFACE MOUNTED, JUMBO ROLL)	ASI	0039
TA-I	SANITARY WASTE RECEPTACLE (SURFACE MOUNTED)	ASI	20852
TA-J	BABY CHANGING STATION	KOALA KARE	KB310-SSWM

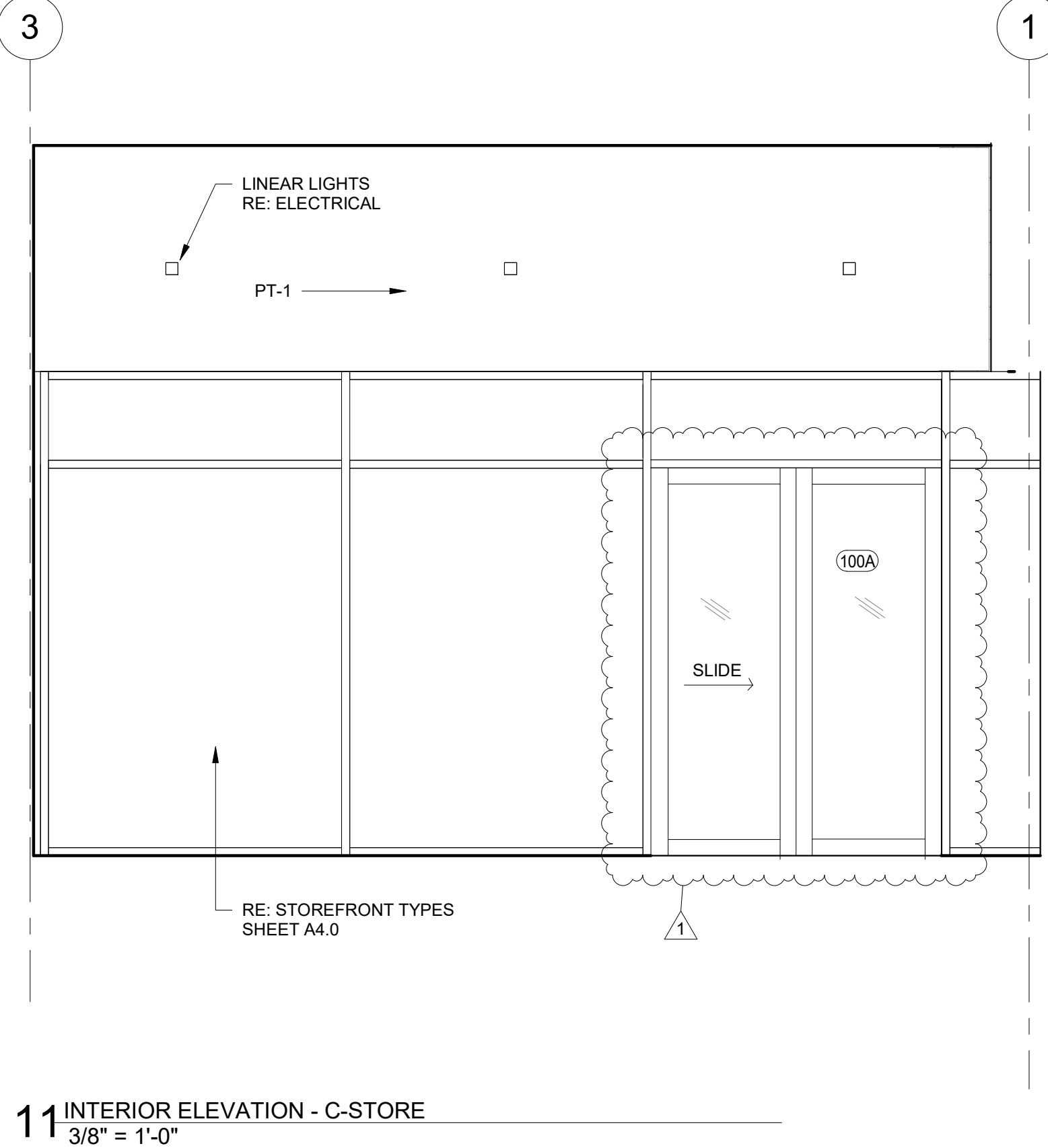
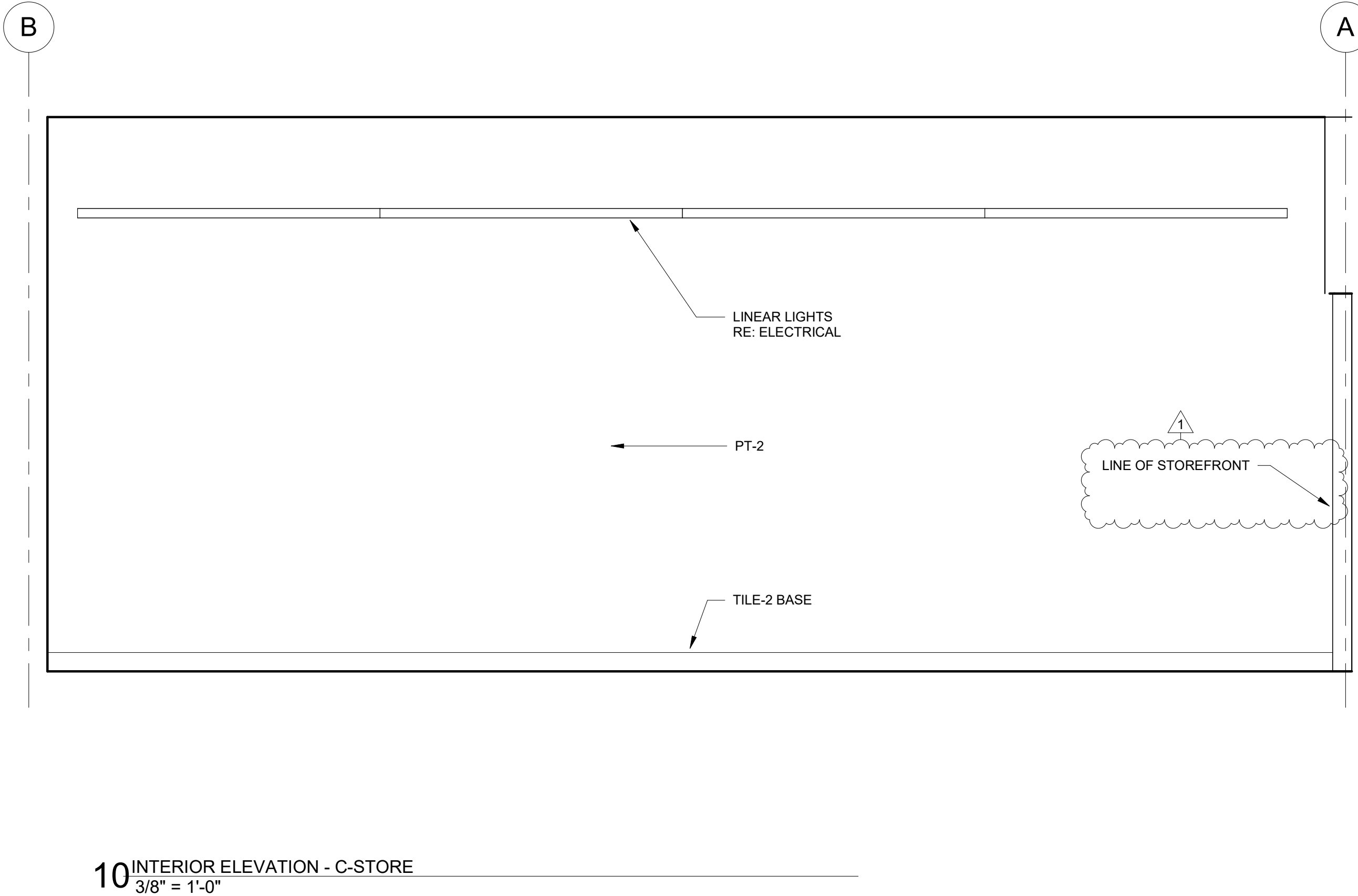
TOILET ROOM AND ACCESSORY NOTES

- REFER TO SHEETS A0.1 AND A0.2 FOR ADA MOUNTING HEIGHTS.
- ALL FAUCETS SHALL BE ADA ACCESSIBLE, LEVER OPERATED
- RESTROOM SIGNAGE:
 - DOOR SIGN
 - DOORWAYS LEADING TO THE MEN'S RESTROOM SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD
 - DOORWAYS LEADING TO THE WOMEN'S RESTROOM SHALL BE IDENTIFIED BY A CIRCLE 12" IN DIAMETER
 - BACKGROUND COLOR: BLUE, FIGURE COLOR: WHITE - NON GLARE FINISH
 - MOUNTING HEIGHT: CENTER OF SIGN 5'-0" AFF. ON DOOR
 - MOUNTING METHOD: DOUBLE STICK FOAM TAPE, SCOTCH BRAND 3M
 - THICKNESS: 1/4"
 - FABRICATION METHOD: NEW PLEXIGLASS SIGN WITH SUBSURFACE GRAPHICS AND BACK SPRAY PAINT FINISH
 - APPLICABLE CODES: ADA 2010 STANDARDS
 - WALL SIGN
 - 1/32" RAISED SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE CHARACTERS MIN. 5/8" HIGH
 - MOUNTING HEIGHT: CENTER OF SIGN 5'-0" AFF ON THE WALL - LATCH SIDE
 - MOUNTING METHOD: DOUBLE STICK FOAM TAPE, SCOTCH BRAND 3M
 - THICKNESS: 1/4"
 - APPLICABLE CODES: ADA 2010 STANDARDS



DOOR SIGNS

WALL SIGN



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Revisions:

1	PERMIT COMMENTS	8/6/24
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INTERIOR ELEVATIONS

A9.1

Issue Date: 05/31/2024

FOUNDATION LEGEND

DRILLED PIER

PILE CAP

FND @ COLUMN

TRENCH FTG

STEM WALL FTG

GRADE BEAM

[illegible]

STRUCTURAL ABBREVIATIONS KEY			
ABBREVIATION		DEFINITION	
AB	ANCHOR BOLTS	F, FTG	FOOTING
ADDNL	ADDITIONAL	GB	GRADE BEAM
AFF	ABOVE FINISH FLOOR	HGT	HEIGHT
ALT	ALTERNATIVE	HK	HOOK
ARCH	ARCHITECT	HORIZ	HORIZONTAL
ARCHT	ARCHITECTURAL	IF	INNER FACE
B, BOTT	BOTTOM	INT	INTERIOR
BB	BOND BEAM	JB	JOIST BEARING
BS	BRICK SHELF/LEDGE	JT	JOINT
BLDG	BUILDING	L	LEDGE
BM	BEAM	LAT	LATERAL
BMD	BOTTOM OF METAL DECK	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
CC	CENTER TO CENTER	LONG	LONGITUDINAL
CJ	CONTROL JOINT	MAS	MASONRY
CL	CENTERLINE	MAX	MAXIMUM
CLR	CLEAR	MECH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	MFR	MANUFACTURER
COL	COLUMN	MIN	MINIMUM
C, CONC	CONCRETE	MTL	METAL
CONN, CONNX	CONNECTION	NIC	NOT IN CONTRACT
CONST	CONSTRUCTION	NOM	NOMINAL
CONT	CONTINUOUS	NS	NEAR SIDE
DET, DTL	DETAIL	OF	OUTER FACE
DM	DIMENSION	OP	OPPOSITE HAND
DK	DECK	OPNG	OPENING
DS	DIAGONAL SHEATHING	PC	PRECAST
DWGS	DRAWINGS	PL	PLATE
DWL	DOVELS	REINF	REINFORCING
EA	EACH	REQD	REQUIRED
EE	EXTENDED END	RET	RETAINING
EF	EACH FACE	SC	SLIP CRITICAL
EFF	EFFECTIVE	SCHED	SCHEDULE
EJ	EXPANSION JOINT	SECT	SECTION
EL, ELEV	ELEVATION	SPA	SPACING
EF	EACH FACE	STIFF	STIFFENER
ES	EACH SIDE	STL	STEEL
EW	EACH WAY	T	TOP
EXIST	EXISTING	Txx	TOP OF XX
EXP	EXPANSION	TRAN	TRANSVERSE
EXT	EXTERIOR, EXTENSION	TYP	TYPICAL
FF	FINISH FLOOR	UNO	UNLESS NOTED OTHERWISE
FL	FLOOR	VERT	VERTICAL
FS	FAR SIDE	W	WIDE, WIDTH
FP	FULL PENETRATION	WWF	WELDED WIRE FABRIC

COMPONENTS & CLADDING DIAGRAM

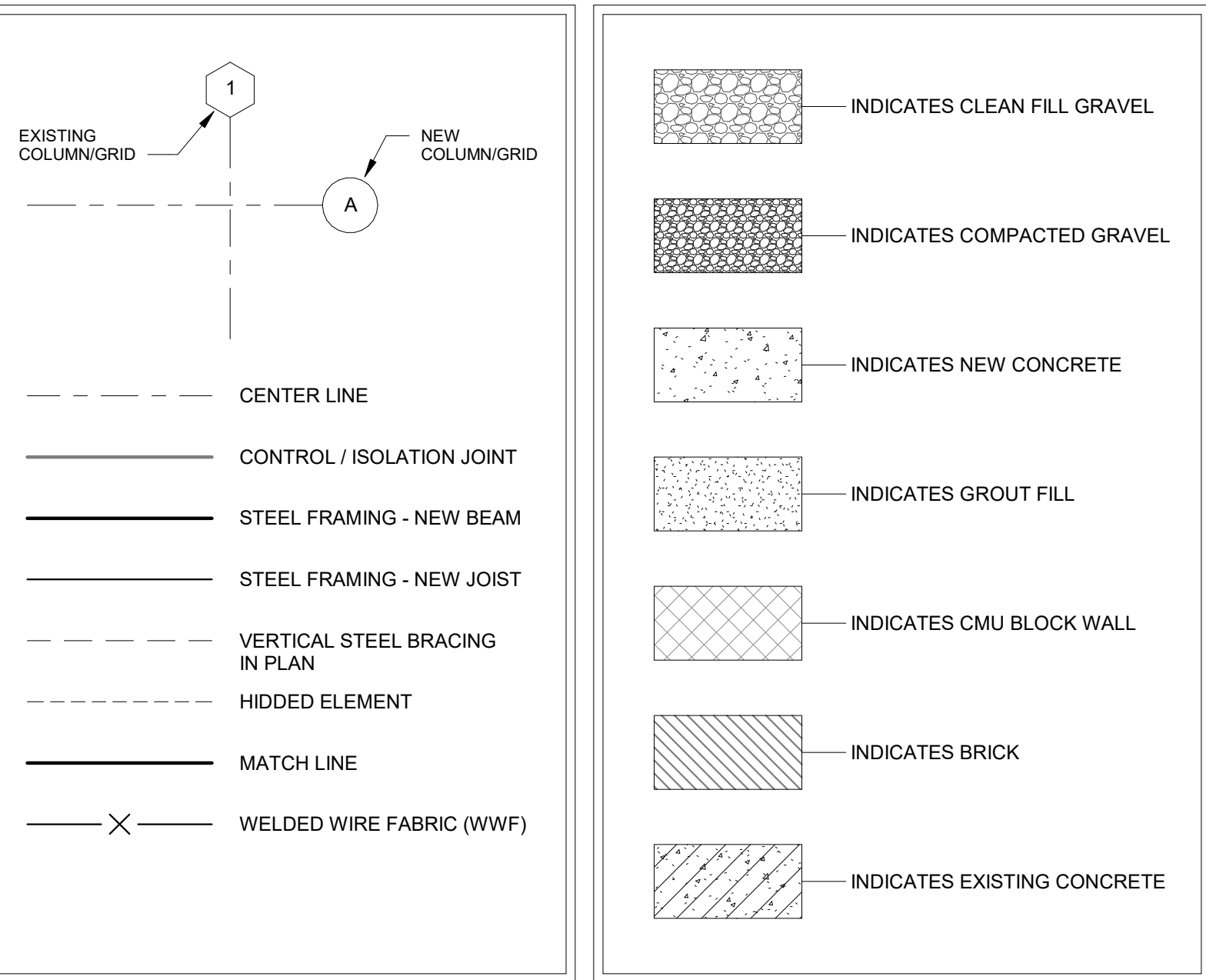
Diagram illustrating the components and cladding for the ROOF. The layout shows a rectangular area divided into sections labeled 1, 2, and 3. Dimensions are indicated: 29'-0" for the top, bottom, and right edges, and 29'-0" for the left edge.

Diagram illustrating the components and cladding for the WALL. The layout shows a rectangular area divided into sections labeled 4 and 5. Dimensions are indicated: 6'-0" for the top, bottom, and right edges, and 6'-0" for the left edge.

COMPONENT AREA	ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 5	
	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
≤ 10 PSF	16 PSF	47 PSF	27 PSF	32 PSF	27 PSF	62 PSF	27 PSF	29 PSF	27 PSF	36 PSF
50 PSF							24 PSF	27 PSF	24 PSF	31 PSF
100 PSF	16 PSF	37 PSF	23 PSF	49 PSF	23 PSF	49 PSF				
200 PSF	16 PSF	34 PSF	22 PSF	45 PSF	22 PSF	45 PSF	22 PSF	24 PSF	22 PSF	26 PSF
>500 PSF	16 PSF	30 PSF	20 PSF	40 PSF	20 PSF	40 PSF	20 PSF	23 PSF	20 PSF	23 PSF

NOTE: ALL LOADS SHOWN ARE FACTORED LOADS

The diagram illustrates a rectangular building footprint with a central roof area. The building width is labeled as 12'-6". The roof overhang on all sides is labeled as 6'-0". The central roof area is labeled "TYPICAL ROOF SNOW LOAD=20 PSF". The surrounding areas, including the roof overhangs and the area immediately adjacent to the building, are labeled "SD=46 PSF".



MATERIAL LEGEND

	SPAN DIRECTION		SLOPE 1/8" : 1'-0"	SLAB/DECK SLOPE
	CENTERLINE SYMBOL	TC = XXX'-X"		TOP OF CONCRETE
	REVISION TRIANGLE	TW = XXX'-X"		TOP OF WALL
	PLAN NORTH ARROW	BL = XXX'-X"		BRICK LEDGE
	<u>PLAN DETAIL / SECTION SYMBOL</u> TOP - DETAIL NUMBER BOTTOM - SHEET NUMBER	FF = XXX'-X"		FINISH FLOOR
	<u>PLAN DETAIL CALLOUT</u> TOP - DETAIL NUMBER BOTTOM - SHEET NUMBER	BMD = XXX'-X"		BOTTOM METAL DECK
	<u>BRACE FRAME CALLOUT</u> TOP - DETAIL NUMBER BOTTOM - SHEET NUMBER			
	METAL STUD SHEAR WALL BRACING			
	STEEL MOMENT CONNECTION (LFRS/SFRS)			
	STEEL CANTILEVER MOMENT CONNECTION			

DESIGN CRITERIA

- RISK CATEGORY: II

 2. **DEAD LOAD:**
 ROOF:
 MEP/CEILING/DECK/MISC 55 PSF
 RTU#1 800 LBS
 MAU#1 1200 LBS
 MAU#2 1200 LBS
 EF-1 500 LBS
 3. **LIVE LOAD:**
 ROOF:
 MAIN ROOF 20 PSF
 4. **SNOW LOAD:**
 TERRAIN CATEGORY C
 IMPORTANCE FACTOR $I=1.0$
 THERMAL FACTOR $C_t=1.0$
 EXPOSURE FACTOR $C_e=1.0$
 GROUND SNOW LOAD $P_g=20$ PSF
 ROOF SNOW LOAD $P_s=20$ PSF
 ROOF SNOW DRIFT LOAD $P_d=THIS SHEET$
 5. **WIND LOAD:**
 MAIN BUILDING:
 BASIC WIND SPEED $V=115$ MPH
 IMPORTANCE FACTOR $I_w=1.0$
 EXPOSURE CATEGORY C
 TOPOGRAPHIC FACTOR $K_z=1.0$
 WIND DIRECTIONALITY FACTOR $K_d=0.85$
 INTERNAL PRESSURE COEFFICIENT $GC_p=\pm 0.18$
 C&C WIND FORCES SEE THIS SHEET
 6. **SEISMIC LOAD:**
 IMPORTANCE FACTOR $I_e=1.0$
 MAPPED SPECTRAL RESPONSE ACCELERATIONS
 SHORT PERIOD PARAMETER $S_s=0.100$
 1 SECOND PARAMETER $S_1=0.068$
 SOIL SITE CLASS D
 DESIGN SPECTRAL RESPONSE ACCELERATIONS
 SHORT PERIOD PARAMETER $S_{DS}=0.107$
 1 SECOND PARAMETER $S_{D1}=0.109$
 SEISMIC DESIGN CATEGORY B
 ANALYSIS METHOD:
 EQUIVALENT LATERAL FORCE PROCEDURE
 BASIC SEISMIC-FORCE-RESISTING SYSTEM:
 ORDINARY REINFORCED MASONRY SHEAR WALL
 RESPONSE MODIFICATION FACTOR $R=2.0$
 DEFLECTION AMPLIFICATION FACTOR $C_d=1.75$
 OVERSTRENGTH FACTOR $\Omega=2.50$
 SEISMIC RESPONSE COEFFICIENT $C_s=0.053$
 7. **FOUNDATIONS:** ALLOWABLE BEARING PRESSURE
 SPREAD FOOTINGS 1500 PSF
 CONTINUOUS FOOTINGS 1000 PSF
 FROST PROTECTION 36 INCHES

CODES AND STANDARDS (LATEST EDITION, U.N.O.)

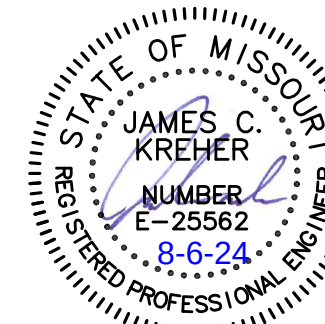
1. PROJECT BUILDING CODE: IBC 2018
2. DESIGN LOADS:
A. ASCE 7-16
3. CONCRETE CONSTRUCTION:
A. ACI 301
B. ACI 304
C. ACI 305
D. ACI 306
E. ACI 308
F. ACI 309
G. ACI 315
H. ACI 318
I. ACI 347
4. STEEL CONSTRUCTION:
A. AISC 360
B. AISC 341
C. AISC 358
D. AWS
E. SJI COSP
F. SDI COSP
5. COLD-FORMED METAL FRAMING:
A. AISI
B. SSMA
6. MASONRY CONSTRUCTION:
A. TMS 402/602
7. WOOD CONSTRUCTION:
A. NDS

SHEET LIST				
SHEET NO.	SHEET NAME	ISSUE DATE	CURRENT REVISION	REVISION DATE
S0.0	LEGENDS AND SYMBOLS	05/31/24		
S0.0.1	GENERAL NOTES	05/31/24		
S0.0.2	GENERAL NOTES	05/31/24		
S0.0.3	SPECIAL INSPECTIONS	05/31/24		
S0.2	CONCRETE TYPICAL DETAILS	05/31/24		
S0.3	MASONRY TYPICAL DETAILS	05/31/24	1	08/06/24
S1.0	FOUNDATION PLAN	05/31/24	1	08/06/24
S1.1	ROOF FRAMING PLAN	05/31/24	1	08/06/24
S2.0	FOUNDATION DETAILS AND SECTIONS	05/31/24	1	08/06/24
S2.1	FOUNDATION DETAILS AND SECTIONS	05/31/24	1	08/06/24
S4.0	ROOF FRAMING DETAILS AND SECTIONS	05/31/24	1	08/06/24
S4.1	ROOF FRAMING DETAILS AND SECTIONS	08/06/24	1	08/06/24
S6.0	BUILDING SIGNAGE DETAILS	05/31/24	1	08/06/24

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LOTS 11 & 13 OF WEST PRYOR
LEES SUMMIT, MO 64063



Exp 12-31-25

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Revisions:

LEGENDS AND SYMBOLS

S0.0

Issue Date: 08/06/2024

Job Number: 21-002.07

3/5/2024 3:40:07 PM

THE GENERAL NOTES ARE NOT A SUBSTITUTE OR A REPLACEMENT TO THE PROJECT SPECIFICATIONS. THESE NOTES ARE INTENDED AS A GUIDE TO THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE PROJECT. NO CONTRACTOR SHOULD ATTEMPT TO DESIGN, BID OR CONSTRUCT ANY PORTION OF THE WORK HEREIN WITHOUT CONSULTING THE PROJECT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND THE MORE STRINGENT REQUIREMENTS SHALL APPLY UNLESS A WRITTEN CLARIFICATION IS ISSUED BY THE STRUCTURAL ENGINEER. VARIATION IN THE FIELD CONDITIONS RELATIVE TO THE PROJECT DOCUMENTS SHALL BE RESPONSIBILITY OF THE CONTRACTOR. WORK SHALL BE IN PROGRESS UNTIL WRITTEN PERMISSION FROM THE ARCHITECT IS OBTAINED.

1. THE CONTRACTOR AND THIER SUBCONTRACTORS ARE SOLEY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT.
2. THE CONTRACTOR AND THIER SUBCONTRACTORS ARE SOLEY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS.
3. MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLEY THE CONTRACTOR'S RESPONSIBILITY.
4. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS AND TRADES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE VARIOUS REQUIREMENTS.
5. THE CONTRACTOR AND THIER SUBCONTRACTORS ARE RESPONSIBLE FOR LIMITING THE AMOUT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE DURING DEMOLITION AND OR CONSTRUCTION. SUCH LOADS SHALL NOT EXCEED THE CAPACITY IF THE STRUCTURE AT ANY TIME.
6. ALL DEMOLITION AND OR CONSTRUCTION PROCEDURES SHALL BE REVIEWED BY A SPECIALTY CONSTRUCTION ENGINEER. SEE DEFERED SUBMITTALS SECTION OF THE GENERAL NOTES.
7. NO CHANGES IN SIZE, DIMENSION OR LOCATION, SHALL BE MADE IN ANY STRUCTURAL ELEMENTS WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
8. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
9. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP FABRICATION, OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.
10. DO NOT SCALE THESE DRAWINGS. USE THE DIMENSION SHOWN.
11. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ANY TEMPORARY BRACING FOR LOADS INDUCED DURING CONSTRUCTION OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN WRITING OF ANY DEVIATION OR SUBSTITUTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION, AND THE STRUCTURAL ENGINEER HAS BEEN GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.

1. **SHOP DRAWING REVIEW:**
REVIEW OF SHOP DRAWING IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE SITE. FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, TEMPORARY SHORING BRACING AND PROCEDURES OF CONSTRUCTION; AND FOR COORDINATION OF WORK OF ALL TRADES.
2. SHOP DRAWINGS SHALL BE APPROVED BY THE ARCHITECT / ENGINEER OF RECORD PRIOR TO FABRICATION. FABRICATION OF ITEMS BEFORE APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ERRORS AND OMISSIONS.
3. **CONCRETE MIX DESIGN:**
SUBMIT WRITTEN REPORTS OF EACH PROPOSED CONCRETE MIX NOT LESS THAN 15 DAYS PRIOR TO THE START OF PLACEMENT. MIX DESIGNS SHALL INCLUDE WATER CEMENT RATIO, SLUMP AND AIR CONTENT. SUBMITTAL SHALL BE PREPARED IN ACCORDANCE WITH ACI 301-84, CHAPTER 3 EXCEPT NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS.
4. **CONCRETE REINFORCING STEEL:**
SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (SP-66) SHOWING BAR SCHEDULES, DIAGRAMS OF BENT BARS, BAR LAP ARRANGEMENT OF CONCRETE REINFORCING. INCLUDE SPECIAL REINFORCEMENT REQUIRED AT OPENINGS THROUGH CONCRETE STRUCTURES. INCLUDE ALL ACCESSORIES SPECIFIED / REQUIRED TO SUPPORT REINFORCING.
5. **MASONRY WALL REINFORCING STEEL:**
SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF MASONRY REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (SP-66) SHOWING BAR SCHEDULES, DIAGRAMS OF BENT BARS, BAR LAP SPLICES AND SPACING OF REINFORCING. INCLUDE SPECIAL REINFORCEMENT REQUIRED AT OPENINGS, CONTROL JOINTS AND BEAM POCKETS. INCLUDE ALL ACCESSORIES SPECIFIED / REQUIRED TO SUPPORT REINFORCING.
6. **STRUCTURAL STEEL:**
SUBMIT SHOP DRAWINGS FOR DETAILS, FABRICATION AND ERECTION OF STRUCTURAL STEEL. COMPLY WITH AISC "STEEL CONSTRUCTION MANUAL" AISC "DETAILING FOR STEEL CONSTRUCTION" AND AISC "ENGINEERING FOR STEEL CONSTRUCTION" PUBLICATIONS. CONNECTIONS MUST BE SHOWN ON SHOP DRAWINGS AND INDICATE THE TYPE BOLT USED AND ALL CLIP ANGLES OR PLATES IN EACH CONNECTION. PRECAST ALL TYPES OF WELDS. ELECTRODES REQUIRED FOR EACH CONNECTION.
13. **PRECAST FRAMING:**
SUBMIT TRUSS SHOP DRAWINGS FOR REVIEW PRIOR TO THE FABRICATION PREPARED BY CONTRACTORS SUPPLIER FOR CONFORMANCE WITH DESIGN CONCEPT. SHOP DRAWING SHALL INCLUDE A PLAN LAYOUT SHOWING THE LOCATION OF ALL FLOOR PLANKS, BEAMS AND COLUMNS. INCLUDE DESIGN LOADS AND ALLOWABLE UNIT STRESS. INCLUDE PLANS FOR TEMPORARY ERECTION AND DEMONSTRATION OF THE PRECAST DESIGN CRITERIA, LOADING, AND HANDLING AND ERECTION INSTRUCTIONS. ALL PRECAST COMPONENT DESIGNS SHALL BEAR THE NAME, SEAL AND/OR REGISTERED NUMBER OF A LICENSED PROFESSIONAL ENGINEER OF THE STATE IN WHICH THE BUILDING OCCURS.

1. THE DESIGNED RESPONSIBILITY OF THE ELEMENTS LISTED BELOW IS BEING DELEGATED TO A SPECIALTY STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR. THE DELEGATED ELEMENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND SPECIFIC REQUIREMENTS NOTED IN THE CONTRACT DOCUMENTS BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL LICENSED STRUCTURAL ENGINEER.
 - 1.1 EXCAVATION SUPPORT-BANK STABILIZATION.
 - 1.2 TEMPORARY BRACING AND SHORING.
 - 1.3 STRUCTURAL STEEL CONNECTIONS.
 - 1.4 SEISMIC ANCHORAGE AND SWAY BRACING OF MECHANICAL, ELECTRICAL AND PLUMBING SYSTEM COMPONENTS.
 - 1.5 PRECAST CONCRETE PLANKS, CONNECTION HANGERS AND ANCHORAGE.
 - 1.6 LADDERS AND THEIR CONNECTIONS AND ANCHORAGES
2. SUBMITTALS SHALL INCLUDE SIGNED AND SEALED CALCULATIONS AND INCLUDE FABRICATION DRAWING.
3. THE CONTRACTOR'S BID SHALL INCLUDE A LIST OF SPECIALTY STRUCTURAL ENGINEER FOR EACH DELEGATED DESIGN RESPONSIBILITY.

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE GEOTECHNICAL REPORT PRIOR TO BIDDING FOR CONSTRUCTION PROCEDURES REQUIRED DUE TO EXISTING CONDITIONS SUCH AS PLASTIC SOILS, UNACCEPTABLE FILL, ETC.
2. CONTINUOUS WALL FOOTINGS HAVE BEEN PROPORTIONED FOR A NEW ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. SPREAD FOOTING HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.
3. SOIL BEARING PRESSURE IS BASED ON THE GEOTECHNICAL REPORT DATED MAY 2, 2024. FURNISHED BY COOK, FLATT & STROBEL ENGINEERS.
4. GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF ALL FOUNDATION AND/OR SLAB BEARING STRATA.
5. CONTRACTOR SHALL REMOVE AND REPLACE UNACCEPTABLE SOILS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ALL ORGANIC MATERIAL AND SOILS WHICH "PUMP" AFTER PROOF ROLLING WITH A FULLY LOADED TRUCK SHALL BE REMOVED.
6. BOTTOM OF FOOTINGS MUST EXTEND 1'-6" BELOW PRESENT GRADE OR INTO "ENGINEERED FILL" AND 1'-0" BELOW PROPOSED GRADE UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT.
7. ENGINEERED FILL. ALL FILL MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. EXISTING ON SITE MATERIALS SUCH AS THE NEAR-SURFACE FILL SOILS (SILTS AND CLAYS) SHOULD NOT BE USED AS ENGINEERED FILL MATERIALS.
8. UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT, EARTH FILL PLACEMENT SHOULD BE COMPACTED TO A DRY DENSITY OF NOT LESS THAN 95% OF THE STANDARD PROCTOR, AND WELL GRADED GRANULAR FILL SHOULD BE COMPACTED TO DRY DENSITY OF NOT LESS THAN 100% OF THE STANDARD PROCTOR. FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING A LOOSE THICKNESS OF 9 INCHES.
9. FOUNDATION WALL OR GRADE BEAMS HAVING EARTH PLACED ON EACH SIDE SHALL BE FILLED SIMULTANEOUSLY TO MAINTAIN A COMMON ELEVATION.
10. CONCRETE FOOTINGS PLACED IN EARTH TRENCHED FORMS SHALL BE FREE OF STANDING WATER AND FROST. CONCRETE FOOTINGS SHALL BE PROTECTED FROM FREEZING FOR A PERIOD OF NOT LESS THAN 5 DAYS.

1. REINFORCING BARS ARE TO BE DOMESTIC NEW BILLSET STEEL CONFORMING TO ASTM A615-GRADE 60 STEEL INCLUDING STIRRUPS AND TIES U.N.O. REINFORCING WHICH IS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185
2. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315-1ATEST)
3. CONCRETE COVER OVER PRIMARY REINFORCING, TIES AND STIRRUPS SHALL BE AS FOLLOWS:

FOOTING -----	3"
SLABS ON GRADE-----	1 1/2"
WALL EXPOSED -----	2"
WALL NOT EXPOSED -----	3/4"
BEAMS AND COLUMNS -----	1 1/2"
4. ALL BARS INCLUDING TEMPERATURE BARS ARE TO EXTEND WITHIN 3" OF THE OUTER FACES OF THE MEMBER INTO WHICH THEY FRAME.
5. WELDED WIRE FABRIC MUST LAP 8" AT SIDES AND 8" AT ENDS AND BE WIRED TOGETHER
6. REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS AND WELDS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE- REINFORCING STEEL" (AWS D1.4) NO OTHER REINFORCING MAY BE WELDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. TACK WELDING OF ANY REINFORCING IS STRICTLY PROHIBITED
7. DOWELS IN WALL FOOTINGS TO BE EQUIVALENT IN SIZE AND NUMBER TO VERTICAL BARS.
 - 6.1. ALL HOOKED OR BENT DOWELS MUST BE IN POSITION BEFORE PLACING CONCRETE. PUSHING BARS INTO FRESHLY PLACED CONCRETE IS NOT ACCEPTABLE
 - 6.2. ALL STRAIGHT DOWELS CAN BE PUSHED INTO FRESHLY PLACED CONCRETE
8. PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS:
 - 7.1. CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS AND FOOTINGS TO MATCH HORIZONTAL REINFORCING. WHERE WALL HAS NO OUTSIDE REINFORCING PROVIDE #4 CORNER BARS SPACED HORIZONTALLY AT 1'-0" cc WITH (3)- #3 VERTICAL SUPPORT BARS
 - 7.2. PROVIDE #4 SLAB DOWELS AT 8" CENTERS AT DOORS UNLESS NOTED
9. ALL BARS SHALL LAP PER TABLE BELOW:

ALL BARS INCLUDING TEMPERATURE BARS ARE TO EXTEND WITHIN 3" OF THE OUTER
FACES OF THE MEMBER INTO WHICH THEY FRAME.

WELDED WIRE FABRIC MUST LAP 8" AT SIDES AND 8" AT ENDS AND BE WIRED TOGETHER

REINFORCING BARS SHALL BE WELDED ONLY WHERE SHOWN ON THE STRUCTURAL DRAWINGS AND WELDS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE- REINFORCING STEEL" (AWS D1.4) NO OTHER REINFORCING MAY BE WELDED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. TACK WELDING OF ANY REINFORCING IS STRICTLY PROHIBITED

DOWELS IN WALL FOOTINGS TO BE EQUIVALENT IN SIZE AND NUMBER TO VERTICAL BARS.

3.7.7 ALL HOOKS ON BENT BOWLS MUST BE IN TENSION. BENDING GREY IRON CONCRETE, PUSHING BARS INTO FRESHLY PLACED CONCRETE IS NOT ACCEPTABLE.

6.2. ALL STRAIGHT DOWELS CAN BE PUSHED INTO FRESHLY PLACED CONCRETE

7. PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED FOR ON STRUCTURAL PLANS:

7.1. CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS AND FOOTINGS TO MATCH HORIZONTAL REINFORCING. WHERE WALL HAS NO OUTSIDE REINFORCING PROVIDE #4 CORNER BARS SPACED HORIZONTALLY AT 1'-0" o/c WITH (3)- #3 VERTICAL SUPPORT BARS

7.2. PROVIDE #4 SLAB DOWELS AT 8" CENTERS AT DOORS UNLESS NOTED

8. ALL BARS SHALL LAP PER TABLE BELOW:

TENSION DEVELOPMENT LAP SPlice LENGTHS FOR UNCOATED BARS								
LENGTH (in.) PER CONCRETE STRENGTH (psi)								
BAR SIZE	4500 psi				4000 psi			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	23"	34"	18"	27"	24"	37"	19"	28"
#4	31"	46"	24"	35"	33"	49"	25"	37"
#5	38"	57"	30"	44"	41"	61"	31"	47"
#6	46"	68"	35"	53"	49"	73"	37"	56"

1. SPACING REQUIREMENTS: CASE 1
 - 1.1 BEAMS AND COLUMNS - C.C. SPACING AT $\geq 2.0db$
 - 1.2 ALL OTHER - C.C. SPACING AT $\geq 3.0db$
2. SPACING REQUIREMENTS: CASE 2
 - 2.1 BEAMS AND COLUMNS - C.C. SPACING AT $\geq 2.0db$
 - 2.2 ALL OTHER - C.C. SPACING AT $\geq 3.0db$
3. TOP HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
4. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING CAST IN NORMAL WEIGHT CONCRETE.
5. FOOTING BARS SHALL BE LAPPED 48.0db

9. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR INSPECTION OF REBAR PLACEMENT.



S0.0.1

Job Number: 21-002.07

STRUCTURAL STEEL

MASONRY

POST INSTALLED ANCHORS



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Revisions:

GENERAL NOTES

S0.0.2

Issue Date: 08/06/2024

Job Number: 21-002.07

ARCHITEXT
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St. Louis, Missouri 63119
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LOTS 11 & 13 OF WEST PRYOR
LEES SUMMIT, MO 64063

8/5/2024 3:40:08 PM
THE PROFESSIONAL ENGINEERS SEAL AFFIXED TO THIS SHEET INDICATES THAT THE ENGINEER HAS REVIEWED THE PROJECT AND THE INFORMATION PROVIDED HEREON IS TRUE AND CORRECT TO THE BEST OF HIS KNOWLEDGE AND BELIEF. THE SEAL IS NOT A GUARANTEE OF THE ACCURACY, COMPLETENESS AND STATUS OF THE INFORMATION PROVIDED HEREON. THE SEAL IS NOT A GUARANTEE OF THE ACCURACY, COMPLETENESS AND STATUS OF THE INFORMATION PROVIDED HEREON. THE SEAL IS NOT A GUARANTEE OF THE ACCURACY, COMPLETENESS AND STATUS OF THE INFORMATION PROVIDED HEREON.

- SPECIAL STRUCTURAL INSPECTIONS
- SPECIAL INSPECTIONS SHALL BE PERFORMED BY A CERTIFIED INSPECTOR APPROVED BY THE ARCHITECT/ENGINEER OF RECORD AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR OR AGENCY SHOULD BE UNDER THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER SPECIALIZING IN STRUCTURAL ENGINEERING.
 - THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND TIMELY NOTIFICATION OF THE NEED FOR SPECIAL INSPECTION.
 - DUTIES OF THE SPECIAL INSPECTOR:
 - THE SPECIAL INSPECTOR WILL OBSERVE THE ASSIGNED ITEMS FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
 - THE SPECIAL INSPECTOR WILL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ENGINEER/ARCHITECT OF RECORD WITHIN 48 HOURS AFTER COMPLETING INSPECTIONS.
 - DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ENGINEER/ARCHITECT.
 - UPON COMPLETION OF THE WORK, THE SPECIAL INSPECTOR SHALL COMPLETE AND SIGN A FINAL REPORT CERTIFYING THAT TO THE BEST OF THE INSPECTORS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND PROVISION OF THE IBC CODE.
 - INSPECTIONS: REFER TO THE IBC BUILDING CODE FOR THE DEFINITION OF PERIODIC AND CONTINUOUS INSPECTIONS INCLUDING SPECIFIC REQUIREMENTS.
 - ALL SPECIAL INSPECTIONS PERFORMED ON THIS PROJECT SHALL COMPLY WITH 2015 IBC SECTIONS 1704 AND 1705
 - SPECIAL INSPECTION DAILY LOGS/REPORTS SHALL BE MAINTAINED ON-SITE BY THE PROJECT SUPERINTENDENT FOR USE AND REFERENCE BY THE LEES SUMMIT, MO, INSPECTION STAFF.
 - SUPERINTENDENT SHALL FORWARD ALL INSPECTION REPORTS TO ARCHITECT AND ENGINEER OF RECORD PRIOR TO COMPLETING "CERTIFICATE OF SPECIAL INSPECTION" FOR SUBMISSION TO THE LEES SUMMIT, MO, INSPECTION STAFF FOR THE FINAL BUILDING INSPECTION.

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - WIND RESISTANCE - STRUCTURAL

VERIFICATION AND INSPECTION	EXTENT: CONTINUOUS PERIODIC SUBMITTAL	REFERENCE STANDARD	IBC REFERENCE	AGENT QUALIFICATION
IBC SECTION 1705.11.1 THROUGH 1705.11.3, UNLESS EXEMPTED BY THE EXCEPTIONS OF SECTION 1704.2				
1. WIND-RESISTING COMPONENTS: PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FASTENING OF THE FOLLOWING SYSTEMS AND COMPONENTS:				
a. ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS.	P		IBC 1705.11.3	PE/SE OR EIT
b. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	P		IBC 1705.11.3	PE/SE OR EIT

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	EXTENT: CONTINUOUS PERIODIC SUBMITTAL	REFERENCE STANDARD	IBC REFERENCE	AGENT QUALIFICATION
IBC SECTION 1705.3				
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	P	ACI 318: Ch20, 25.2, 25.3, 26.5.1-26.5.3	IBC 1908.4	PE/SE OR EIT
2. REINFORCING BAR WELDING				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706	P	ACI 318: 26.5.4 AWS D1.4		AWS-CW1
b. INSPECT SINGLE-PASS FILLET WELD, MAXIMUM 5/16"	P			
c. INSPECT ALL OTHER WELDS.	C			
3. INSPECT ANCHORS CAST IN CONCRETE.	P	ACI 318: 17.8.2		PE/SE OR EIT
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	C	ACI 318: 17.8.2.4		ACI-STT
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN SECTION 4.1.	P	ACI 318: 17.8.2		
5. VERIFY USE OF REQUIRED DESIGN MIX.	P	ACI 318: Ch19 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	ACI-CFTT OR ACI-CCI
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	C	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	IBC 1908.10	ACI-CFTT OR ACI-SST
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATIONS TECHNIQUES.	C	ACI 318: 26.4.5	IBC 1908.6, 1908.7, 1908.8	ACI-CFTT OR ACI-CCI
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES.	P	ACI 318: 26.4.7-26.4.9	IBC 1908.9	ACI-CFTT OR ACI-LTT
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	P	ACI 318: 26.10.1(b)		

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - SOILS AND FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION	EXTENT: CONTINUOUS PERIODIC SUBMITTAL	REFERENCE STANDARD	IBC REFERENCE	AGENT QUALIFICATION
IBC SECTION 1705.6; 1705.7; 1705.8; 1705.9 IBC TABLE 1705.6; 1705.7; 1705.8				
1. VERIFY EXISTING SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS.				
a. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	P		IBC 1705.6	PE/GE; EI OR ET
b. VERIFY EXCAVATION ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	P		IBC 1705.6	PE/GE; EI OR ET
c. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	P		IBC 1705.6	PE/GE; EI OR ET
d. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	C		IBC 1705.6	PE/GE; EI OR ET
e. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.	P		IBC 1705.6	PE/GE; EI OR ET

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS
MASONRY CONSTRUCTION - LEVEL A QUALITY ASSURANCE

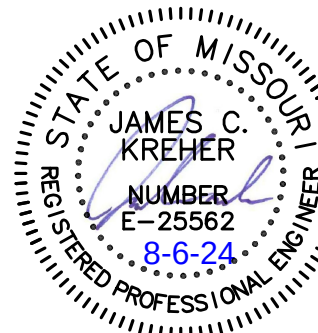
VERIFICATION AND INSPECTION	FREQUENCY		REFERENCE FOR CRITERIA	
	REQUIRED		TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
IBC SECTION 1705.4				
TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 TABLE 3 - LEVEL A QUALITY ASSURANCE				
PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION	X			ART. 1.5

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS
MASONRY CONSTRUCTION - LEVEL B QUALITY ASSURANCE

VERIFICATION AND INSPECTION	FREQUENCY		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
IBC SECTION 1705.4				
TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 TABLE B - LEVEL B QUALITY ASSURANCE				
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X		ART. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
A. PROPORTIONS OF SITE-PREPARED MORTAR		X		ART. 2.1, 2.6 A
B. CONSTRUCTION OF MORTAR		X		ART. 3.3 B
C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X		ART. 2.4 B, 2.4 H
D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X		ART. 3.4, 3.6 A
E. PRESTRESSING TECHNIQUE		X		ART. 3.6 B
F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	X		ART. 2.1 C
3. PRIOR TO GROUTING VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
A. GROUT SPACE		X		ART. 3.2 D, 3.2 F
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 6.1	ART. 2.4, 3.4
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2 E, 3.4, 3.6 A
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X		ART. 2.6 B, 2.4 G.1.b
E. CONSTRUCTION OF MORTAR JOINTS		X		ART. 3.3 B
4. VERIFY DURING CONSTRUCTION				
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		ART. 3.3 F
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 1.2.1(a), 6.1.4.3, 6.2.1	
C. WELDING OF REINFORCEMENT	X		SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)	
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))		X		ART. 1.8 C, 1.8 D
E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X			ART. 3.6 B
F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X			ART. 3.5, 3.6 C
G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	X		ART. 3.3 B.9, 3.3 F.1.b
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS - STRUCTURAL STEEL CONSTRUCTION (WELDING)

VERIFICATION AND INSPECTION			
IBC 1705.2.1 ANSI / AISC 360-10 TABLES: N5.4-1, N5.4-2, N5.4-3			
INSPECTION TASK PRIOR TO WELDING N5.4-1	QC	QA	
WELDINGPROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P	
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	
WELDER IDENTIFICATION SYSTEM	O	O	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)			
- JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	O	O	
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	
FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACE) - TACKING (TACK WELD QUALITY AND LOCATION)	O	O	
CHECK WELDING EQUIPMENT	O	-	
INSPECTION TASK DURING WELDING N5.4-2	-	-	
USE OF QUALIFIED WELDERS	O	O	
CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	O	O	
NO WELDING OVER CRACKED TACK WELDS	O	O	
ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	O	O	
WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) - PROPER POSITION (F, V, H, OH)	O	O	
WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	O	O	
INSPECTION TASK AFTER WELDING N5.4-3	-	-	
-WELDS CLEANED-	O	O	
-SIZE, LENGTH AND LOCATION OF WELDS-	P	P	
WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	P	P	
-ARC STRIKES-	P	P	
-K-AREA-	P	P	
-BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)-	P	P	
-REPAIR ACTIVITIES-	P	P	
-DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER-			



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Revisions:

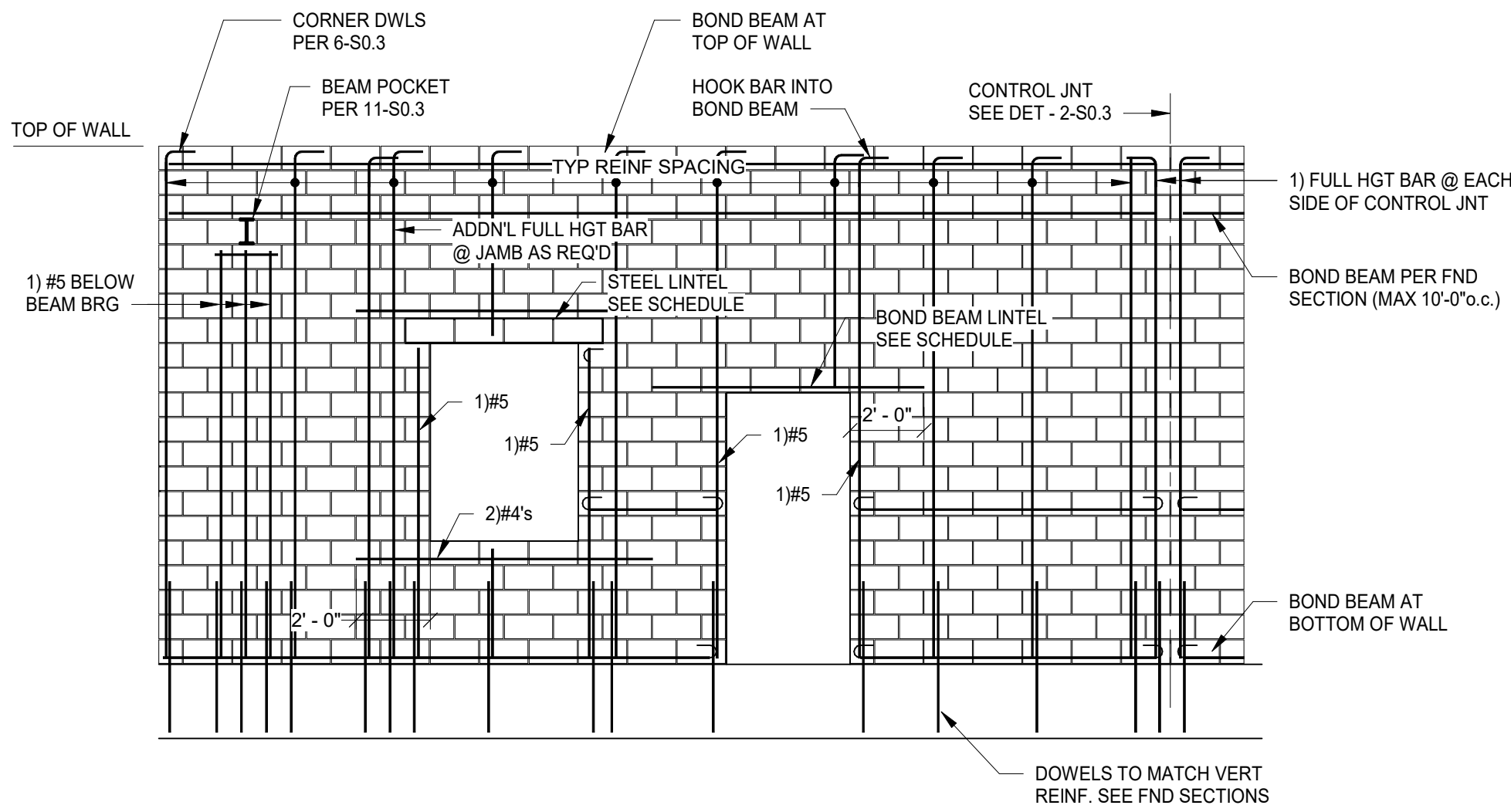
SPECIAL INSPECTIONS

S0.0.3

Issue Date: 08/06/2024

Job Number: 21-002.07

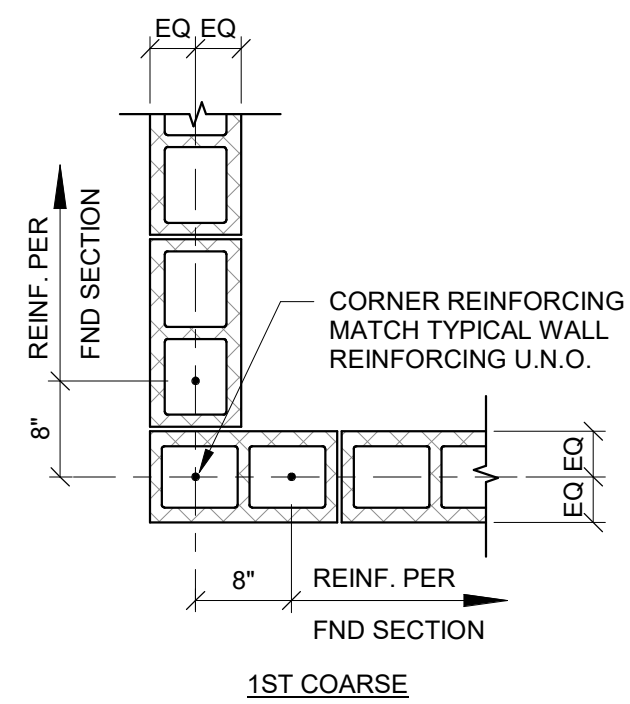
8/6/2024 3:40:10 PM
CONCEPT (C) JCM ARCHITECTURE, INC.
THE ABOVE ENGINEER HAS PREPARED OR DIRECTED THE PREPARATION OF THE DRAWINGS AND SEALS. ALL SEALS, PRINT NAMES, TITLES, SHEET NUMBERS AND NOTATIONS SHALL BE THE PROPERTY OF JCM ARCHITECTURE, INC. AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF JCM ARCHITECTURE, INC. ANY VIOLATION OF THIS STATEMENT SHALL BE CONSIDERED A VIOLATION OF THE PROFESSIONAL ETHICS OF THE ENGINEER. K24-074



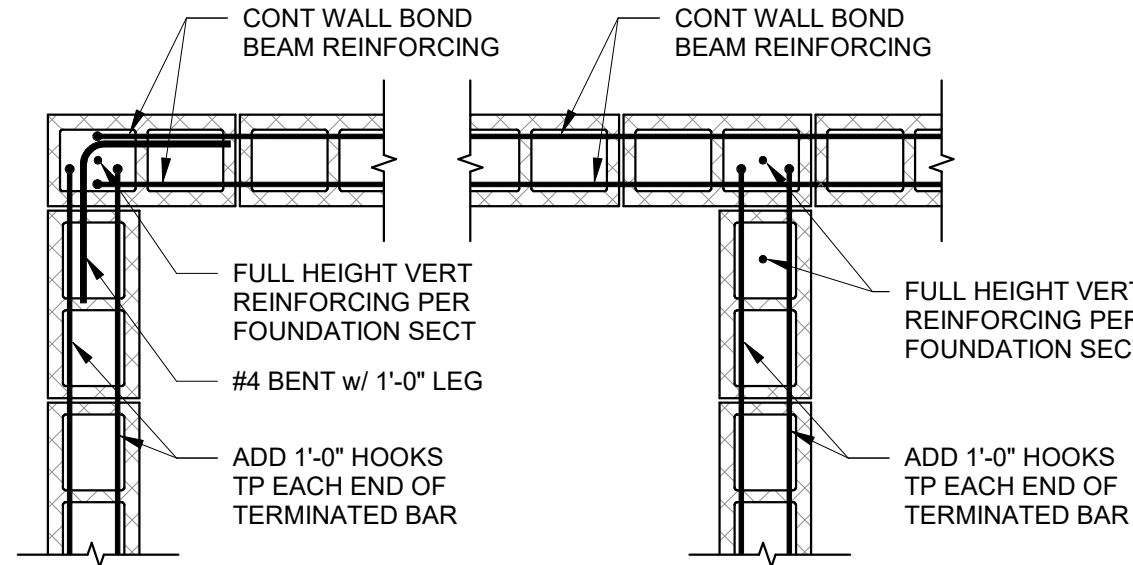
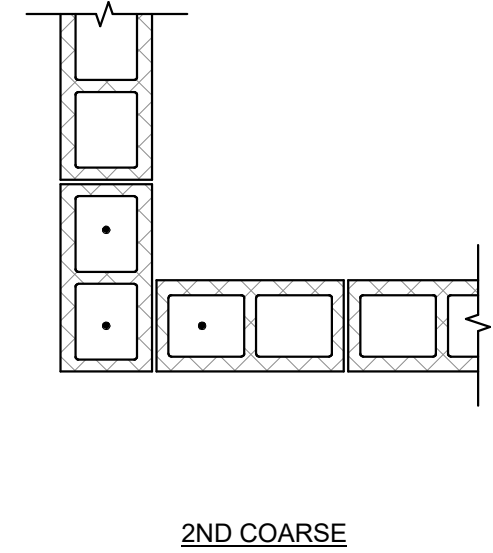
- NOTES:
- 1) PLACE VERTICAL STEEL ONE CELL OUTSIDE OF OPENING JAMB
 - 2) SPLICE LENGTHS FOR VERTICAL REINFORCING PER LAP SPLICE SCHEDULE.
 - 3) STEEL LINTEL BEARING 8" MIN U.N.O.
BOND BEAM BEARING 24" MIN U.N.O.

MASONRY WALL REINFORCING ELEVATION

1
S0.3
1/4" = 1'-0"

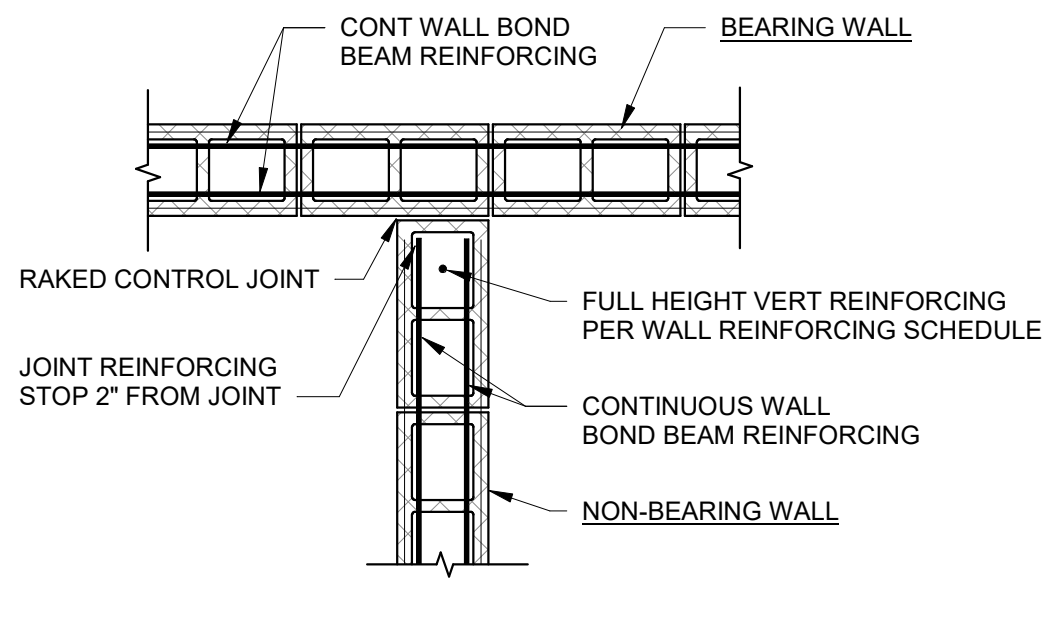


5
S0.3
3/4" = 1'-0"



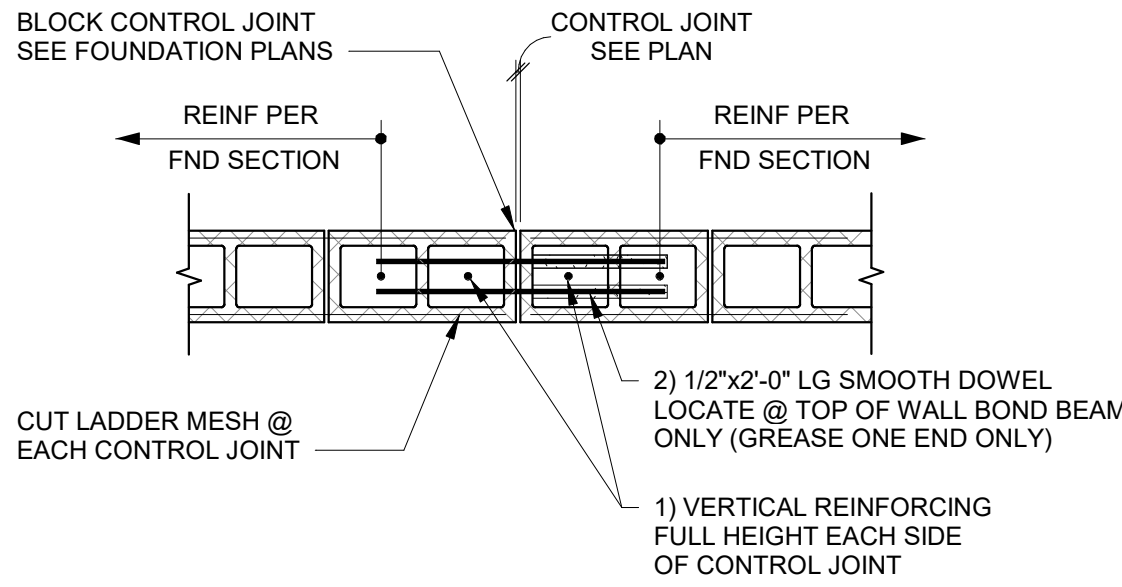
BOND BEAM REINFORCING AT BEARING WALLS

6
S0.3
3/4" = 1'-0"



TYPICAL INTERSECTING NON-BEARING WALLS

7
S0.3
3/4" = 1'-0"



TYPICAL MASONRY WALL CONTROL JOINT

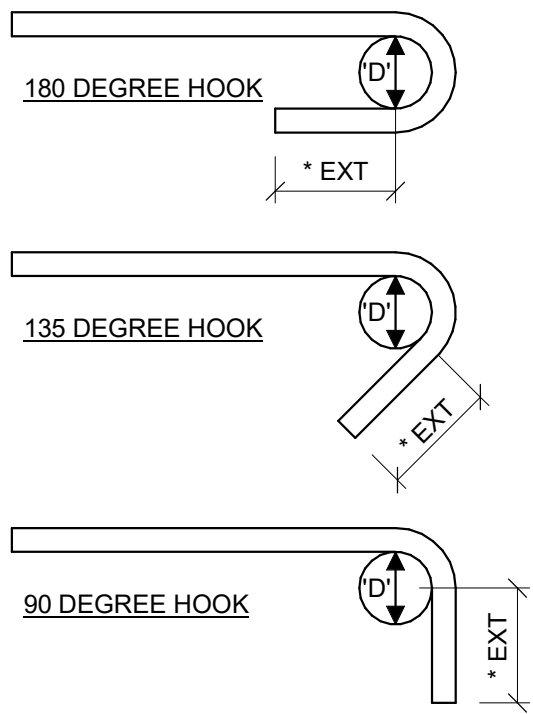
2
S0.3
3/4" = 1'-0"

LAP SPLICE SCHEDULE		
BAR	1 BAR PER CELL	2 BARS PER CELL
#3	18"	18"
#4	24"	24"
#5	30"	30"
#6	36"	48"
#7	42"	67"

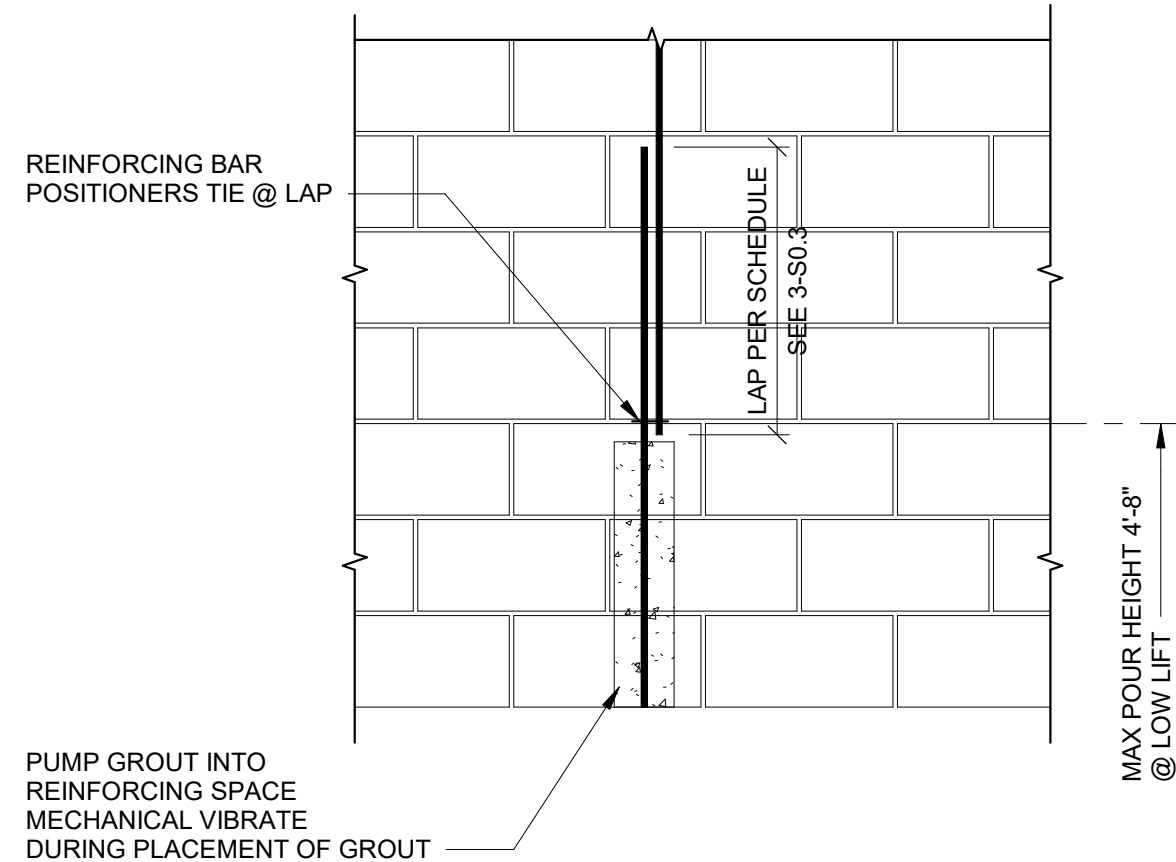
3
S0.3
12" = 1'-0"

TYPICAL BENDS FOR REINFORCED MASONRY BARS					
BAR	D' DIAMETER BEND		* EXT		
	STIRRUPS & TIES	OTHERS	180 DEG	135 DEG	**90 DEG
#3	1 7/8"	2 1/4"	2 1/2"	2 1/2"	4 1/2"
#4	2 1/2"	3"	2 1/2"	3"	6"
#5	3 1/8"	3 3/4"	2 1/2"	3 3/4"	7 1/2"
#6	3 3/4"	4 1/2"	3"	4 1/2"	9"
#7	4 3/8"	5 1/4"	3 1/2"	5 1/4"	10 1/2"

* EXT - LENGTH MEASURED FROM POINT OF TANGENCY OF THE BEND TO THE END OF THE HOOK
** 90 DEG HOOK NOT ALLOWED FOR STIRRUPS AND TIES

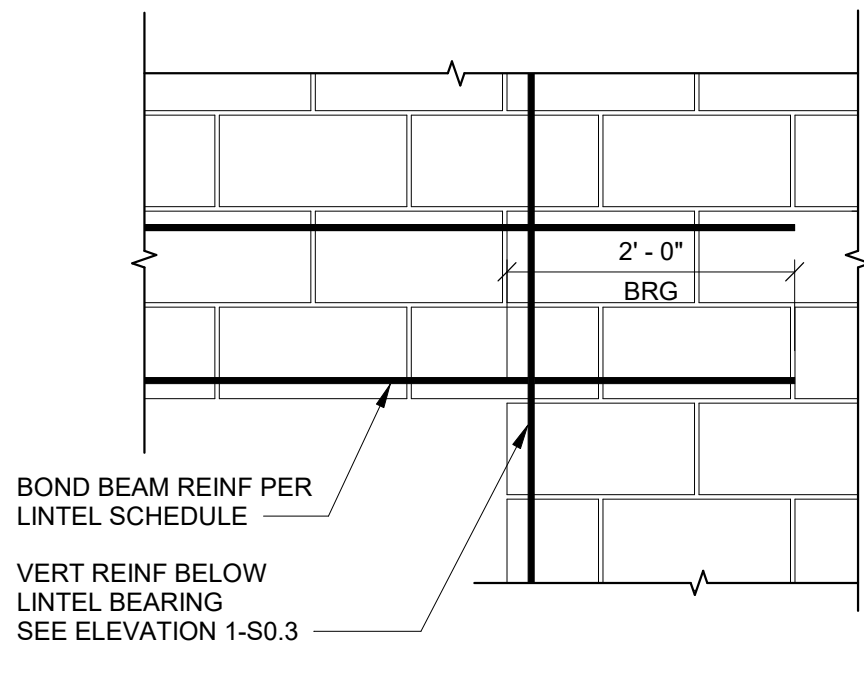


4
S0.3
12" = 1'-0"



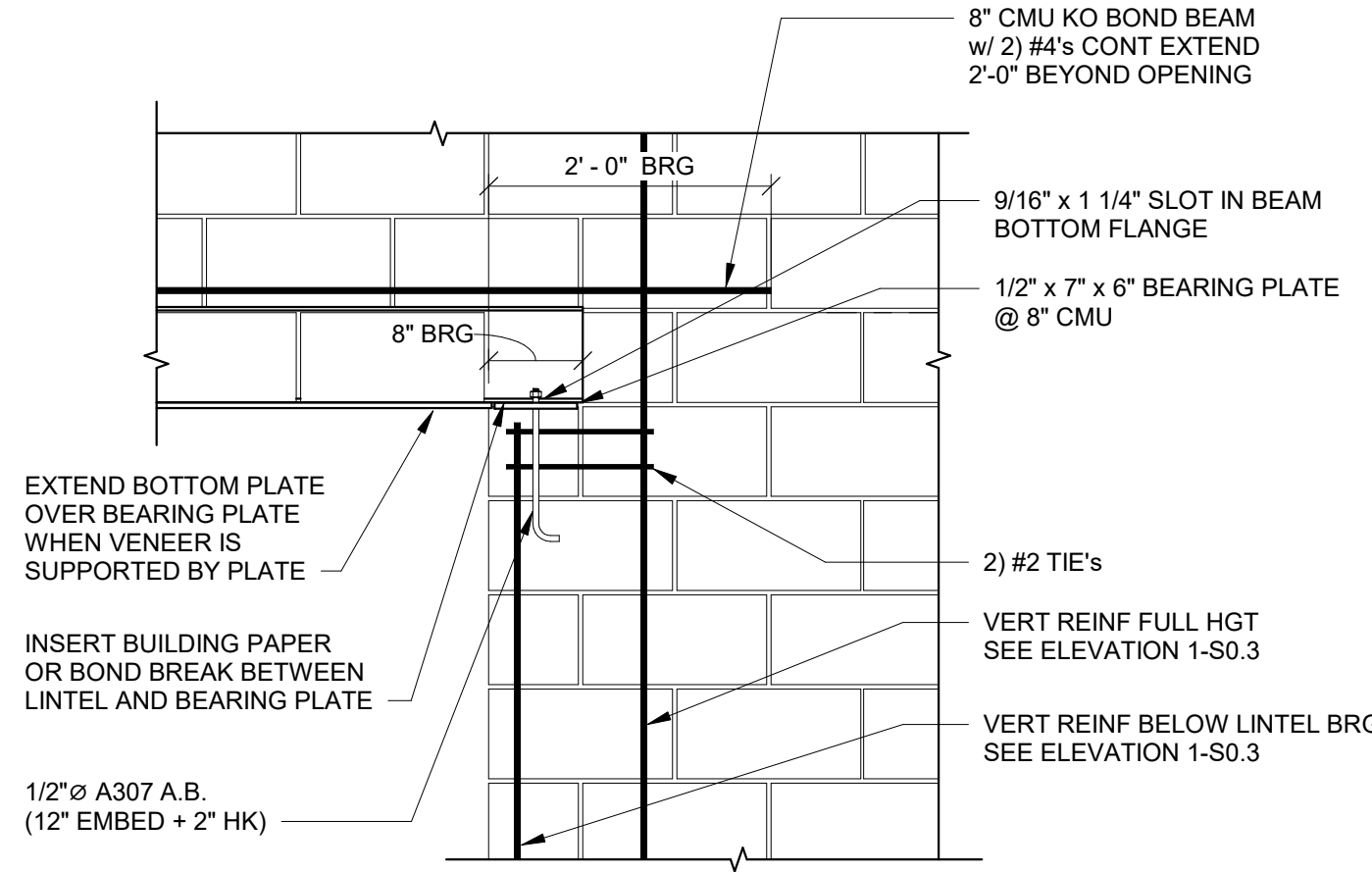
TYPICAL BAR LAP @ REINFORCED WALL

8
S0.3
3/4" = 1'-0"



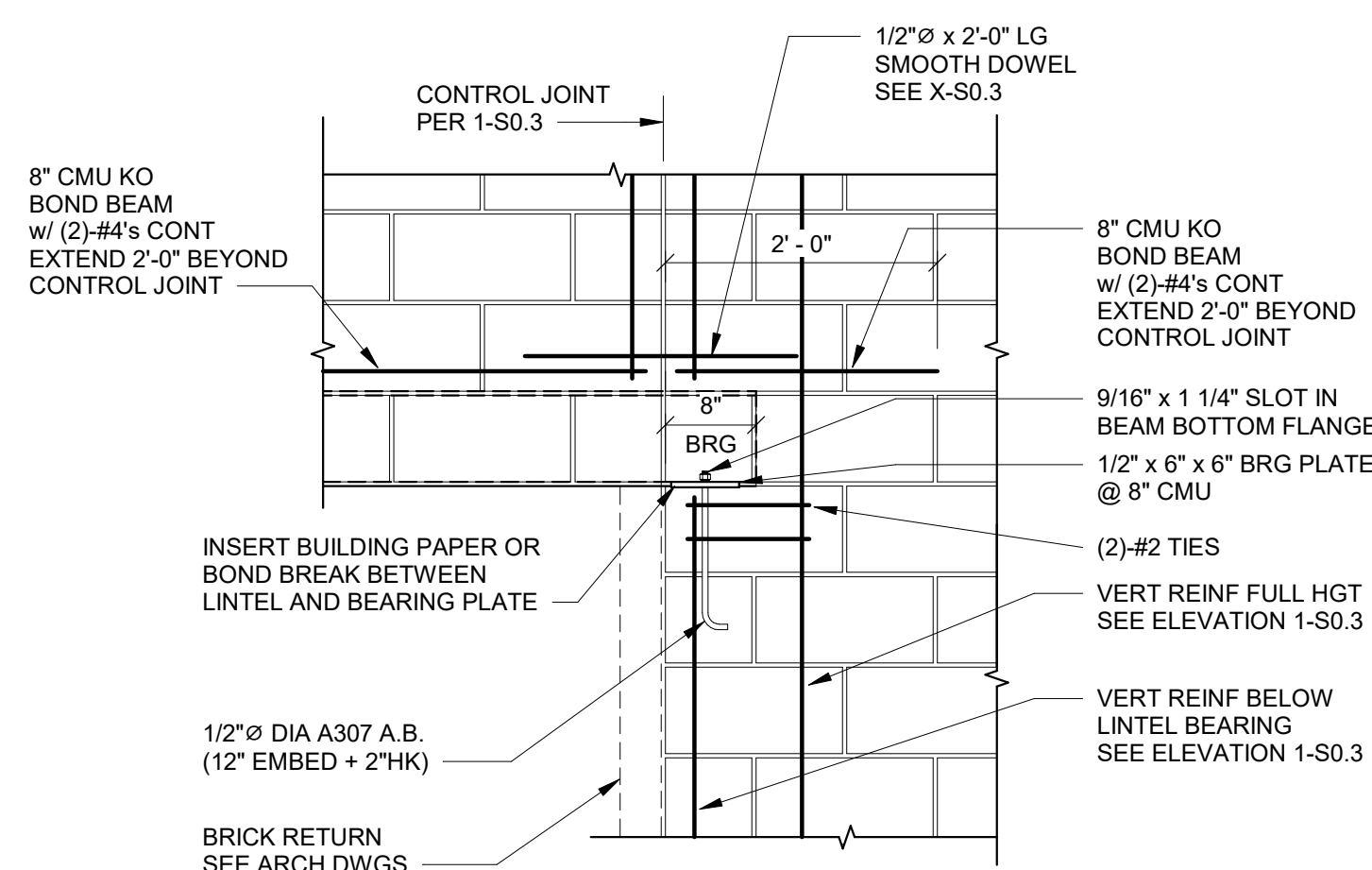
BOND BEAM BEARING DETAIL

9
S0.3
3/4" = 1'-0"



WIDE FLANGE LINTEL BEARING DETAIL

10
S0.3
3/4" = 1'-0"



WIDE FLANGE LINTEL BEARING DETAIL @ CONTROL JOINT

11
S0.3
3/4" = 1'-0"

LINTEL SCHEDULE		
MARK	DESCRIPTION	BEARING DETAIL
L1a	8" x 16" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM w/ #3 SINGLE LEG STIRRUPS @ 6" o.c.	9-S0.3
L1b	8" x 16" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3
L2a	10" x 24" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3
L2a	10" x 24" HIGH CMU BOND BEAM w/ 2) #5's CONT AT TOP/BOTTOM	9-S0.3
L3a	W8x21 w/ 5/16" BTM PL	10-S0.3
L3b	W8x28 w/ 5/16" BTM PL	10-S0.3
NON-BEARING LINTELS		
SPAN	12" CMU / 8" CMU / 6" CMU	4" CMU
1'-4" TO 4'-0" @ SCUPPERS	8" HIGH CMU BOND BEAM w/ 2) #5's CONT @ BOTTOM	L3 1/2 x 3 1/2 x 1/4
4'-1" TO 6'-6"	16" HIGH CMU BOND BEAM w/ 2) #5's CONT @ BOTTOM	L5 x 3 1/2 x 1/4 (LLV)
6'-7" TO 10'-0"	W8 x 28 w/ 5/16" BOTTOM PLATE	L7 x 4 x 3/8 (LLV)
NOTE: 1) SEE ARCH DRAWINGS FOR ANGLE LEG DIMENSIONS ANGLES NOTED IN SCHEDULE ARE MINIMUM REQUIRED 2) SEE ARCH DRAWINGS FOR MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS. NON-BEARING LINTELS SHALL APPLY		



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Revisions:

1 PERMIT COMMENTS 8/6/24

MASONRY TYPICAL
DETAILS

S0.3

Issue Date: 08/06/2024

Job Number: 21-002.07

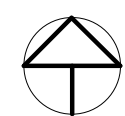


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1 PERMIT COMMENTS 8/6/24

S1.0

Job Number: 21-002.07


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

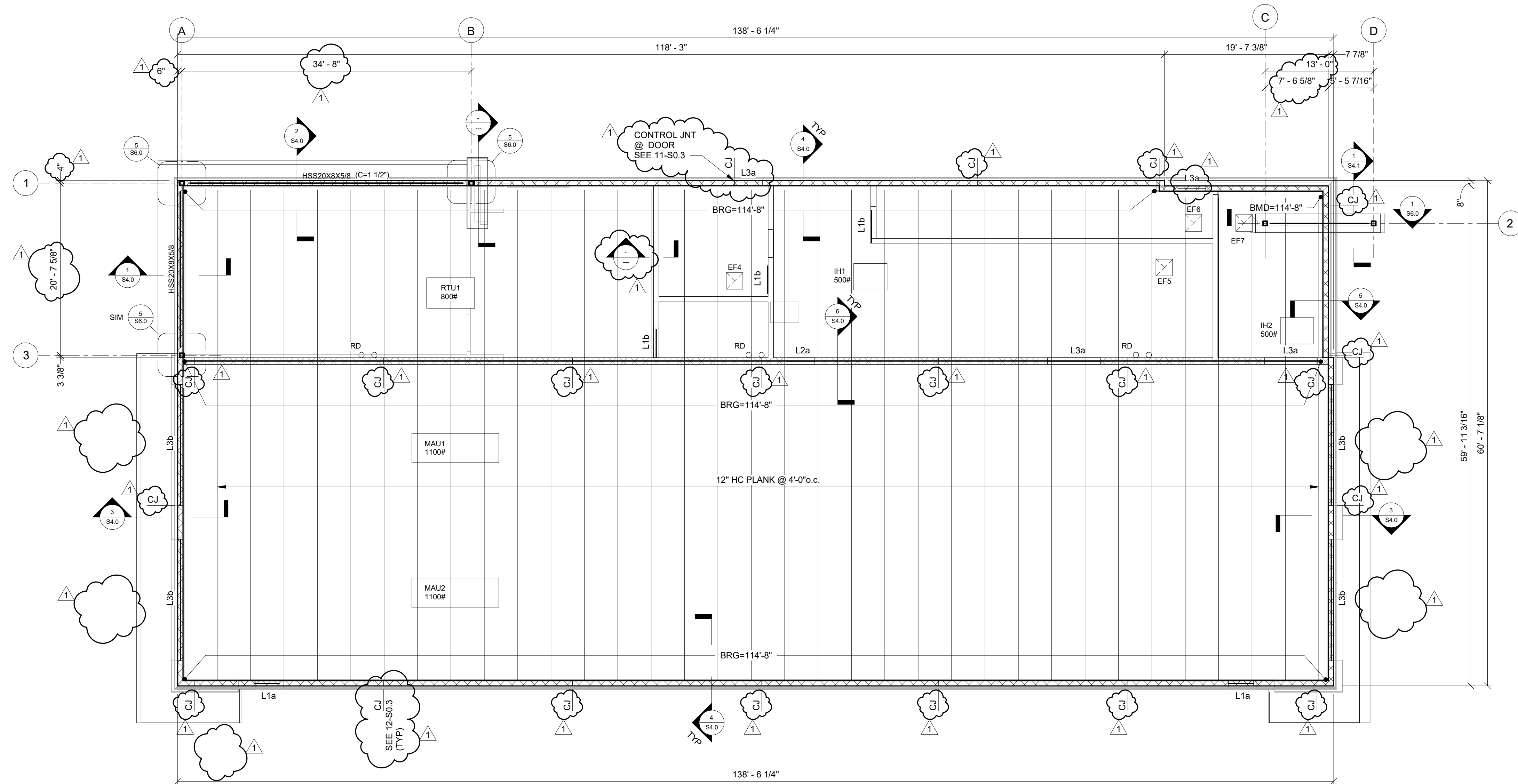
1. **SLAB CONSTRUCTION:**
STORE: - 4" CONCRETE SLAB ON GRADE REINFORCED W/ 6x6-W1.4xW1.4 WWF FABRIC OVER MINIMUM 10 MIL VAPOR BARRIER (ASTM E 1745 CLASS A) AND 4" COMPACTED GRANULAR FILL (< 5% FINES). VAPOR BARRIER TO BE PLACED BETWEEN THE CONCRETE SLAB AND GRAVEL UNLESS OTHERWISE NOTED. CONTRACTOR SHALL TAKE NECESSARY ACTIONS TO AVOID SLAB CURLING REFER TO THE PROJECT SPECIFICATION MANUAL FOR REQUIRED PERFORMANCE FOR VAPOR BARRIER.
WASH TUNNEL - 6" CONCRETE SLAB ON GRADE. REINFORCE W/ 6x6-W2.1xW2.1 WWF OVER 4" COMPACTED GRANULAR FILL (< 12% FINES)
WATER STORAGE - 8" CONCRETE SLAB ON GRADE REINFORCE W/ #4's @ 12" o.c. EACH WAY, TOP/BOTT OVER 4" COMPACTED GRANULAR FILL (< 12% FINES)
2. ELEVATIONS ARE REFERENCED FROM FINISH FLOOR SLAB ELEVATION OF 100'-0". SEE ARCHITECTURAL OR SITE DRAWINGS FOR ACTUAL SITE ELEVATIONS.
3. ALL FOOTINGS ARE TO BE CENTERED UNDER WALLS AND/or COLUMNS.
4. SLAB CONTROL AND CONSTRUCTION JOINTS MAY BE INTERCHANGED AT CONTRACTOR'S OPTION, UNLESS OTHERWISE NOTED. SEE SECTION 1-50.2.
5. CONTINUOUS FOOTINGS HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE BEARING PRESSURE OF 1500 PSF. ISOLATED FOOTINGS HAVE BEEN PROPORTIONED FOR A NET ALLOWABLE BEARING PRESSURE OF 1500 PSF. BEARING PRESSURE SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER BEFORE FOOTINGS ARE PLACED. CONTRACTOR SHALL REMOVE AND REPLACE UNACCEPTABLE SOILS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ALL SOILS WHICH "PUMP" SHALL BE REMOVED.
6. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATION AND CONDITIONS. NOTIFY ARCHITECT/ENGINEER IF ACTUAL EXISTING CONDITIONS CONFLICT WITH THE INFORMATION SHOWN OR IMPLIED ON THE DRAWINGS



BASE PLATE TYPE "A"

ANCHOR BOLT TYPES

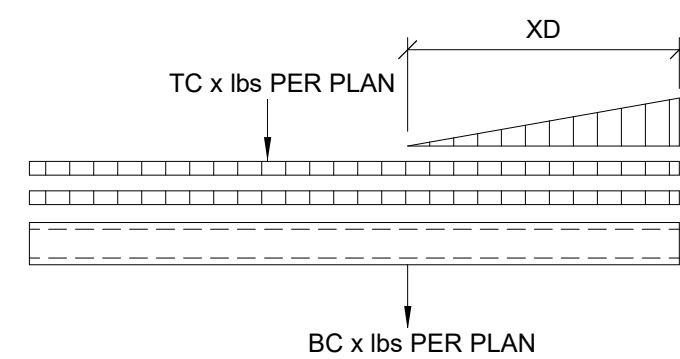
MARK	WIDTH	THICK	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
WF24-12	2'-0"	1'-0"	2) #5 CONT @ BTM	#5's @ 24"o.c.
WF24-26	2'-0"	2'-2"		#3 TIES @ 48"o.c.
WF24-34	2'-0"	2'-10"	2) #5 CONT TOP/BTM 2) #5 CONT @ MID	#3 TIES @ 48"o.c.
WF36-12	3'-0"	1'-0"	4) #5 CONT @ BTM	#5's @ 24"o.c.
WF36-34	3'-0"	2'-10"	3) #5 CONT TOP/BTM 2) #5 CONT @ MID	#3 TIES @ 48"o.c.
WF48-34	4'-0"	2'-10"	4) #5 CONT TOP/BTM 2) #5 CONT @ MID	#3 TIES @ 48"o.c. (2 SETS)
WF52-12	4'-4"	1'-0"	4) #5 CONT @ BTM	#5's @ 24"o.c.



MASONRY WALL LEGEND

	— FULL HGT BEARING WALL
	— FULL HGT NON-BEARING WALL
	— PARTIAL HGT NON-BEARING

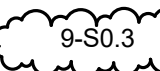
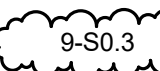
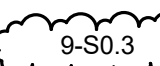
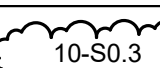
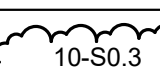
PRECAST PLAN LOAD DIAGRAM



PLANK MK#	LOADING
PL-1	DL = 55 PSF + PLANK WT LL = 100 PSF SL = 20 PSF + DRIFT PER SHEET S0.0
DL = DEAD LOAD LL = LIVE LOAD SL = SNOW LOAD SD = SNOW DRIFT WL = WIND LOAD	NOTES: 1) LOAD COMBINATIONS PER ASCE 7-10 (LRFD) 2) ALL LOADS SHOWN ARE GROSS LOADS 3) WL NOTED IS AN UPLIFT LOAD

NOTES:
1) LOAD COMBINATIONS PER ASCE 7-10 (LRFD)
2) ALL LOADS SHOWN ARE GROSS LOADS
3) WL NOTED IS AN UPLIFT LOAD

LINTEL SCHEDULE

LINTEL SCHEDULE		
MARK	DESCRIPTION	BEARING DETAIL
L1a	8" x 16" HIGH CMU BOND BEAM w/ 2) #5s CONT AT TOP/BOTTOM w/ #3 SINGLE LEG STIRRUPS @ 6" c.c.	 9-S0.3
L1b	8" x 16" HIGH CMU BOND BEAM w/ 2) #5s CONT AT TOP/BOTTOM	 9-S0.3
L2a	10" x 24" HIGH CMU BOND BEAM w/ 2) #5s CONT AT TOP/BOTTOM	 9-S0.3
L2a	10" x 24" HIGH CMU BOND BEAM w/ 2) #5s CONT AT TOP/BOTTOM	 9-S0.3
L3a	W8x21 w/ 5/16" BTM PL	 10-S0.3
L3b	W8x28 w/ 5/16" BTM PL	 10-S0.3

NON-BEARING LINTELS

SPAN	12" CMU / 8" CMU / 6" CMU	4" CMU
1'-4" to 4'-0" @ SCUPPERS	8" HIGH CMU BOND BEAM w/ 2) #5's CONT @ BOTTOM	L3 1/2 x 3 1/2 x 1/4
4'-1" to 6'-6"	16" HIGH CMU BOND BEAM w/ 2) #5's CONT @ BOTTOM	L5 x 3 1/2 x 1/4 (LLV)
6'-7" to 10'-0"	W8 x 28 w/ 5/16"x8" BOTTOM PLATE	L7 x 4 x 3/8 (LLV)

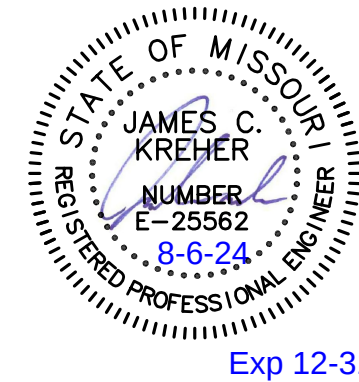
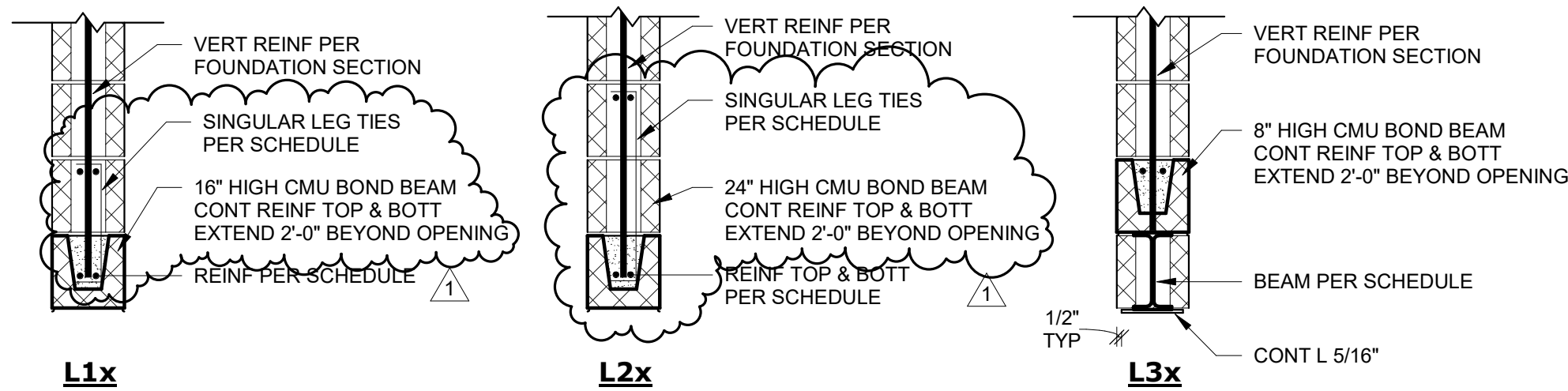
NOTE: 1) SEE ARCH DRAWINGS FOR ANGLE LEG DIMENSIONS
ANGLES NOTED IN SCHEDULE ARE MINIMUM REQUIRED

2) SEE ARCH DRAWINGS FOR MECHANICAL DRAWINGS FOR
ADDITIONAL OPENINGS. NON-BEARING LINTELS SHALL APPLY

ROOF FRAMING PLAN

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

1. ROOF CONSTRUCTION: (UNLESS NOTED OTHERWISE) 3" NW CONCRETE TOPPING SLAB REINFORCED w/ 6x6 W1.4kW1.4 WWF OVER PRECAST HOLLOW PLANKS (TOTAL SLAB = 13") INSTALLED AND FABRICATED HOLLOW CORE PLANKS IN ACCORDANCE WITH PCI SPECIFICATIONS. ADDITIONAL TOPPING SLAB REINFORCING SHALL BE DESIGNED BY PRECAST SUPPLIER FOR THE LOADS NOTED ON PRECAST PLANK DIAGRAM.
2. BOTTOM OF METAL DECK ELEVATIONS IS REFERENCED FROM FINISH FLOOR ELEVATION EL = 100'-0" AND NOTED THUS (BMD = XXX'-XX").
3. COORDINATE FLOOR ALL OPENING LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PRECAST SUPPLIER TO DESIGN AND PROVIDE FRAMING FOR ALL OPENINGS.
4. ROOF EQUIPMENT CURB SUPPORT AND THEIR ATTACHMENTS SHALL BE DELEGATED DESIGN BY SUPPLIER FOR CURB ROOF STRUCTURE.
5. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS. NOTIFY ARCHTECT/ENGINEER IF ACTUAL EXISTING CONDITIONS CONFLICT WITH THE INFORMATION SHOWN OF IMPLIED ON THE DRAWINGS.
6. DESIGN ROOF LOAD: 155 PSF (DEAD LOAD = 55 PSF + PLANK WT = 80 PSF + LIVE/SNOW LOAD = 20 PSF).



Exp 12-31-25

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Revisions:

1 PERMIT COMMENTS 8/6/24

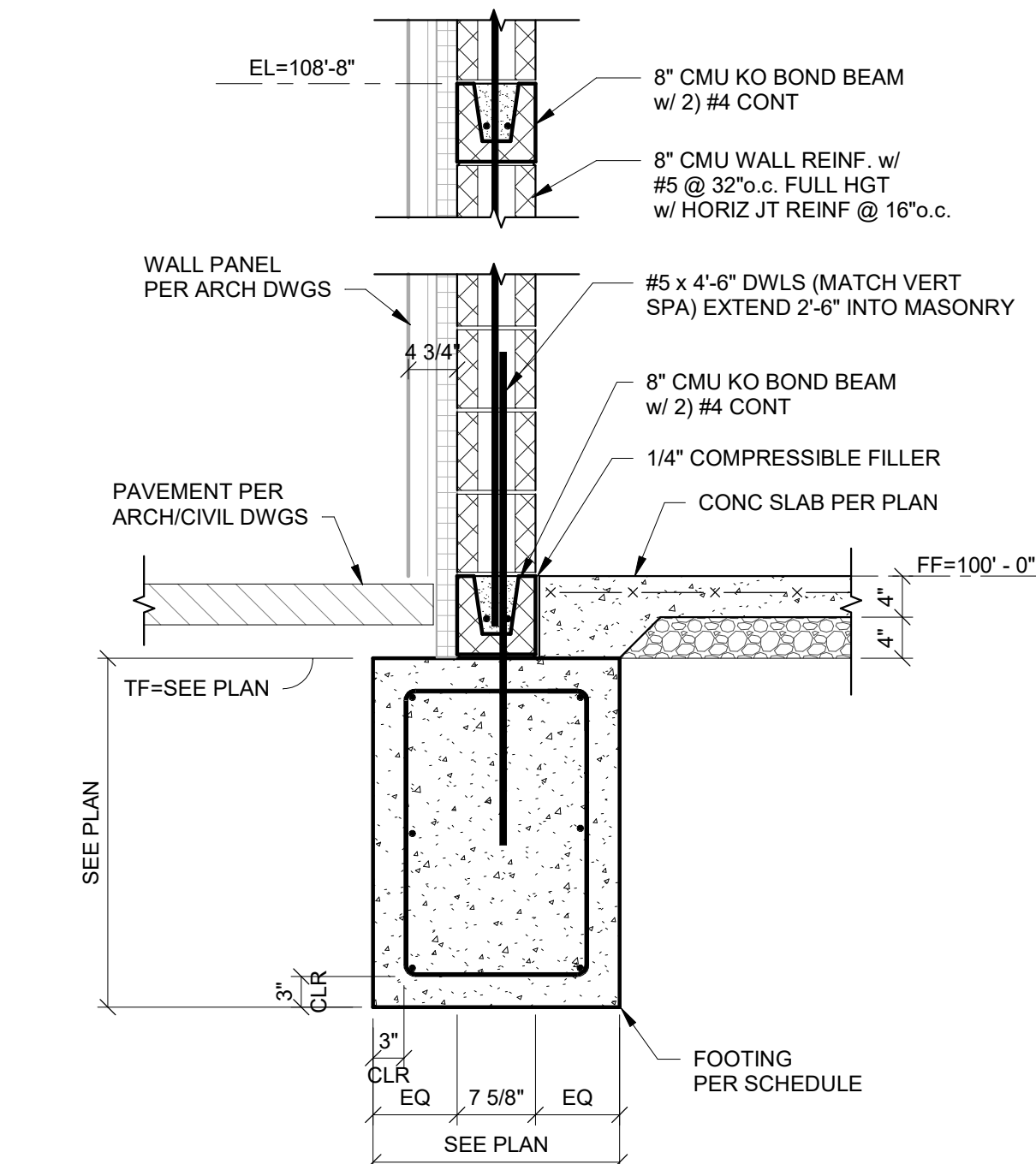
ROOF FRAMING PLAN

S1.1

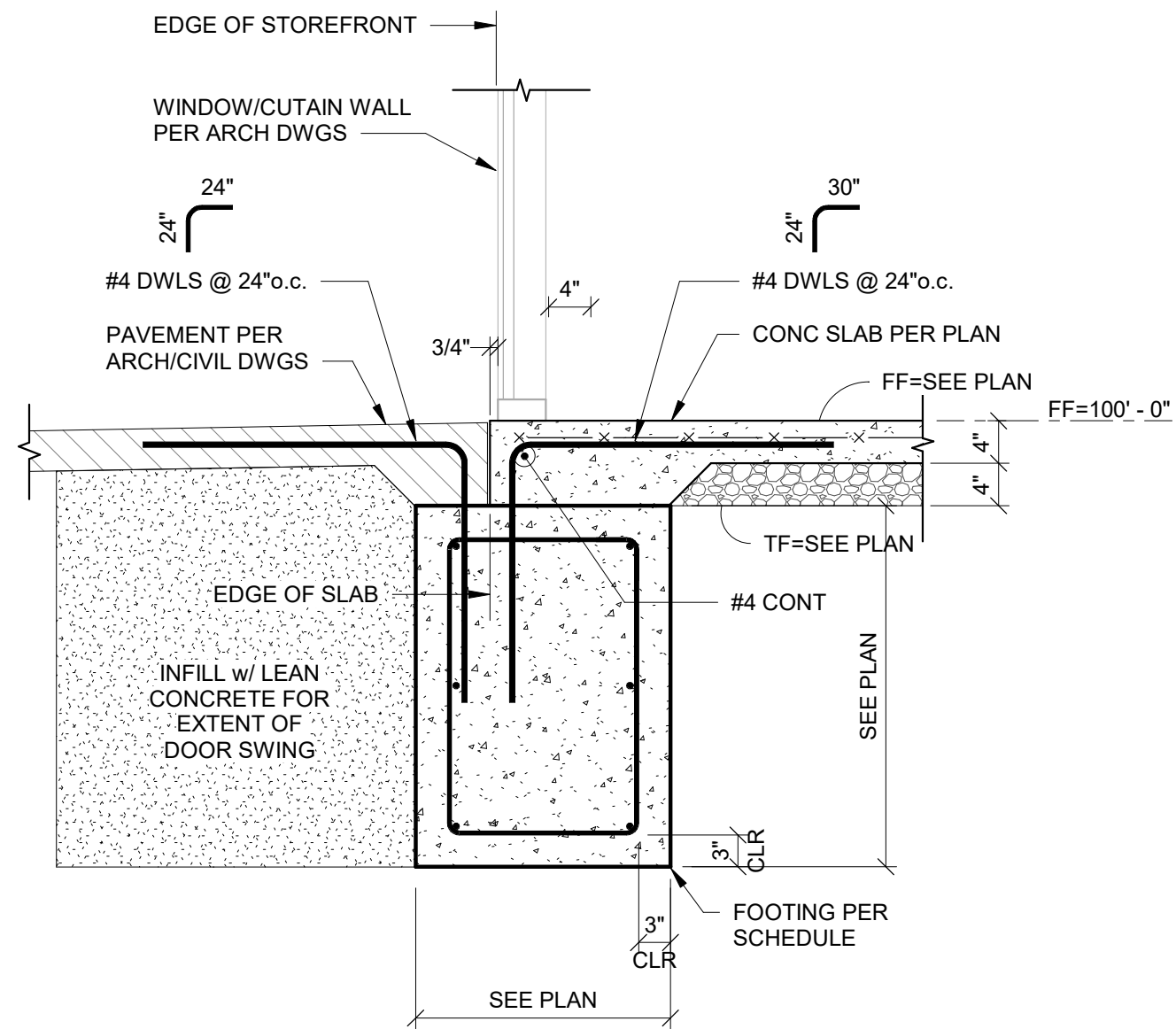
Issue Date: 08/06/2024

Job Number: 21-002.07

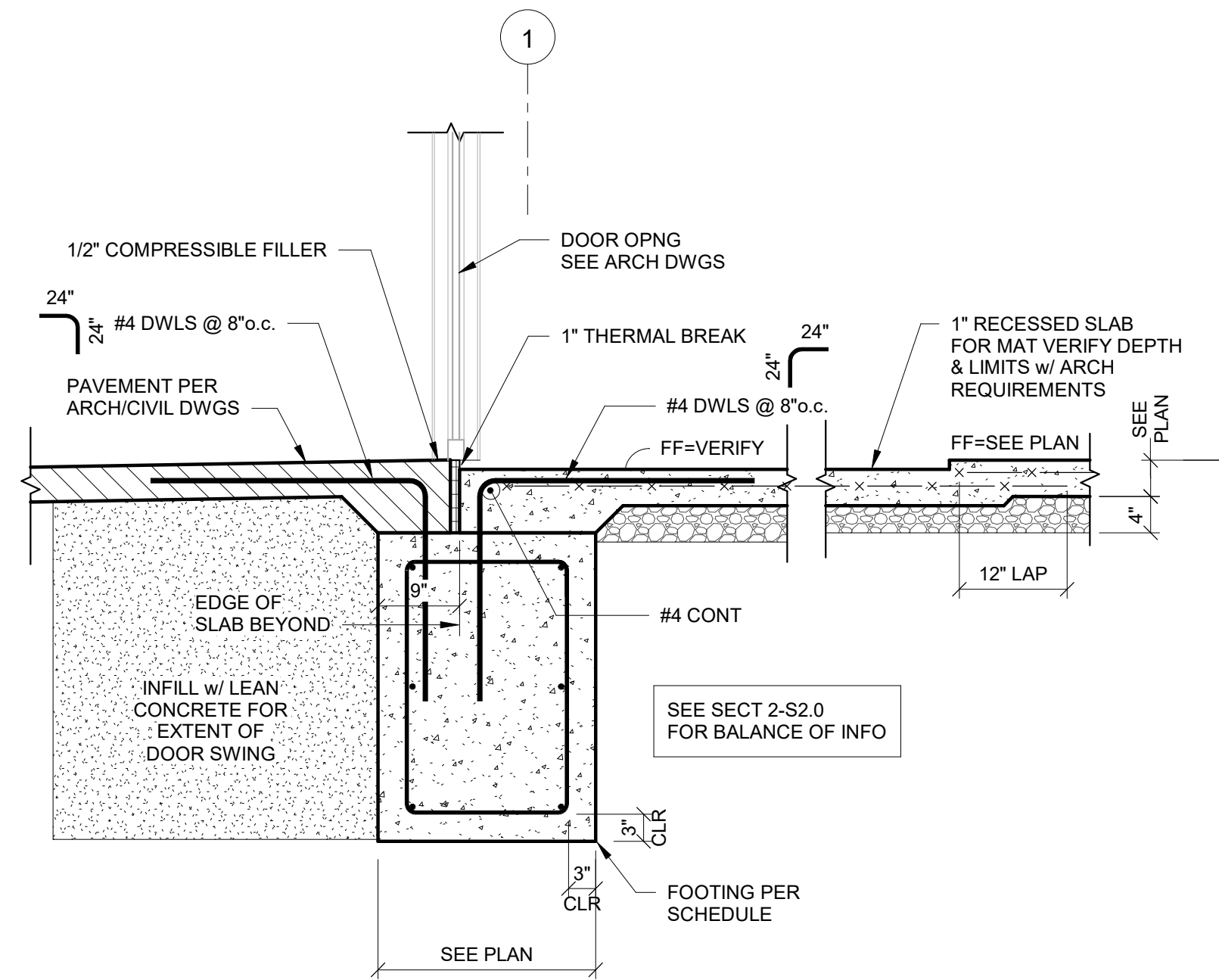
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RESPONSIBILITY OF THE UNDERSIGNED: K24-074



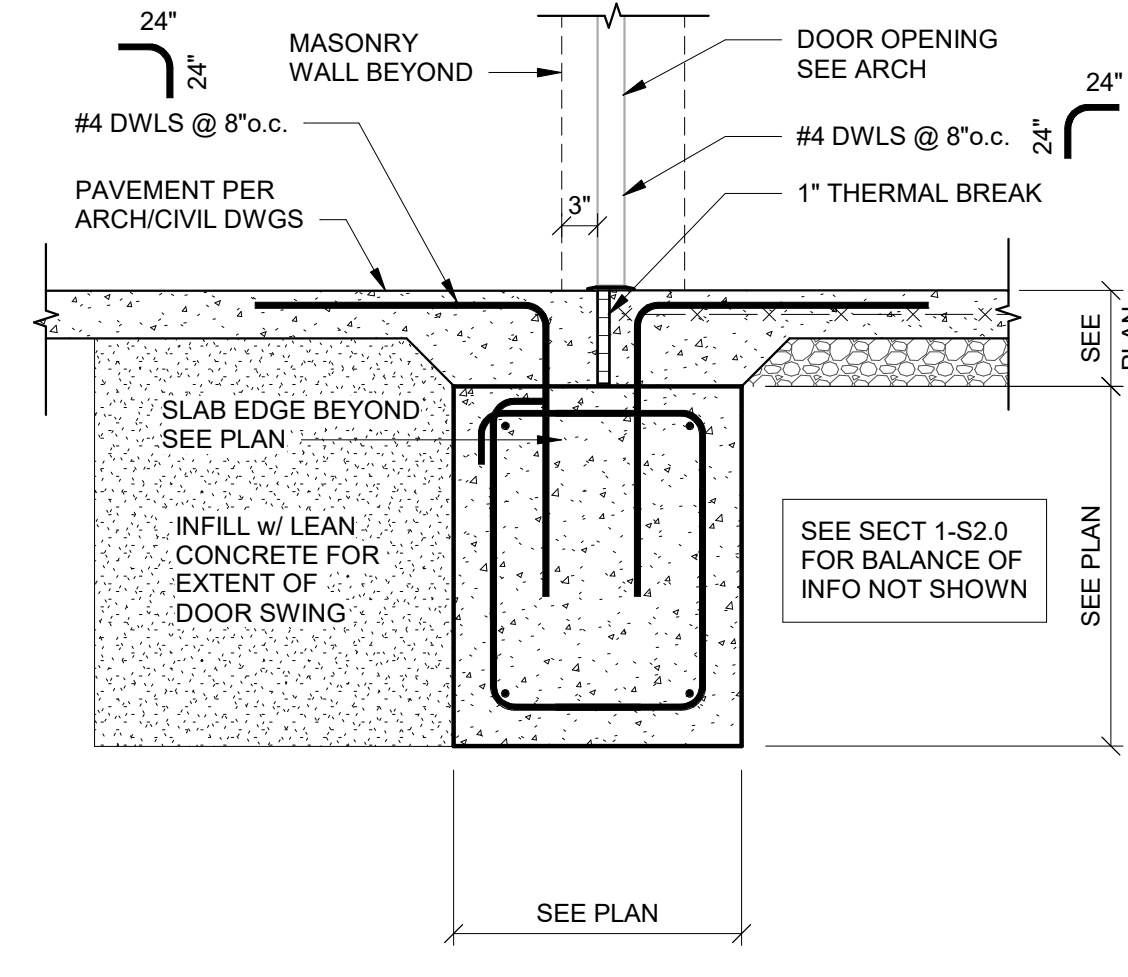
TYPICAL EXTERIOR WALL



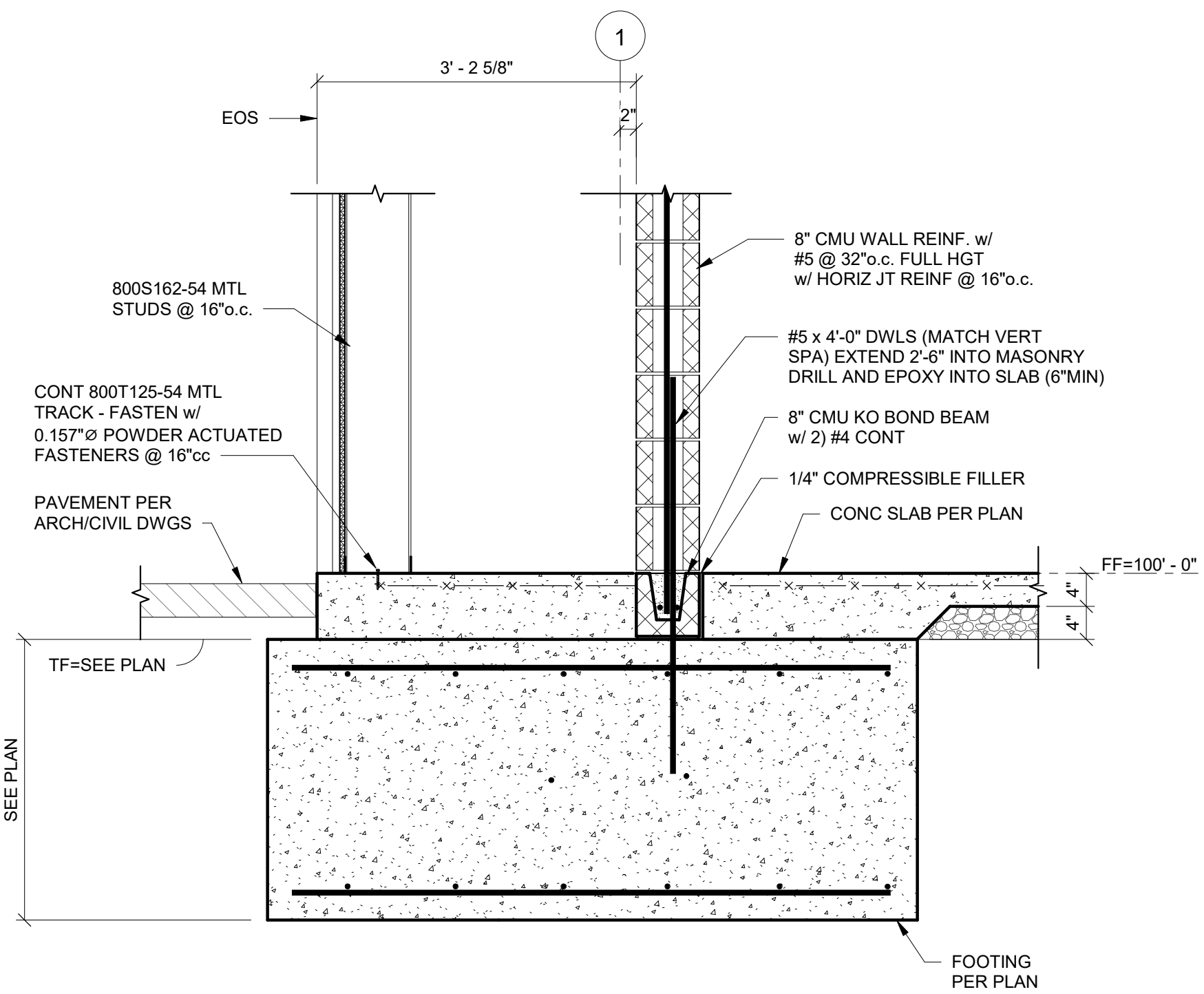
TYPICAL SECTION @ WINDOW



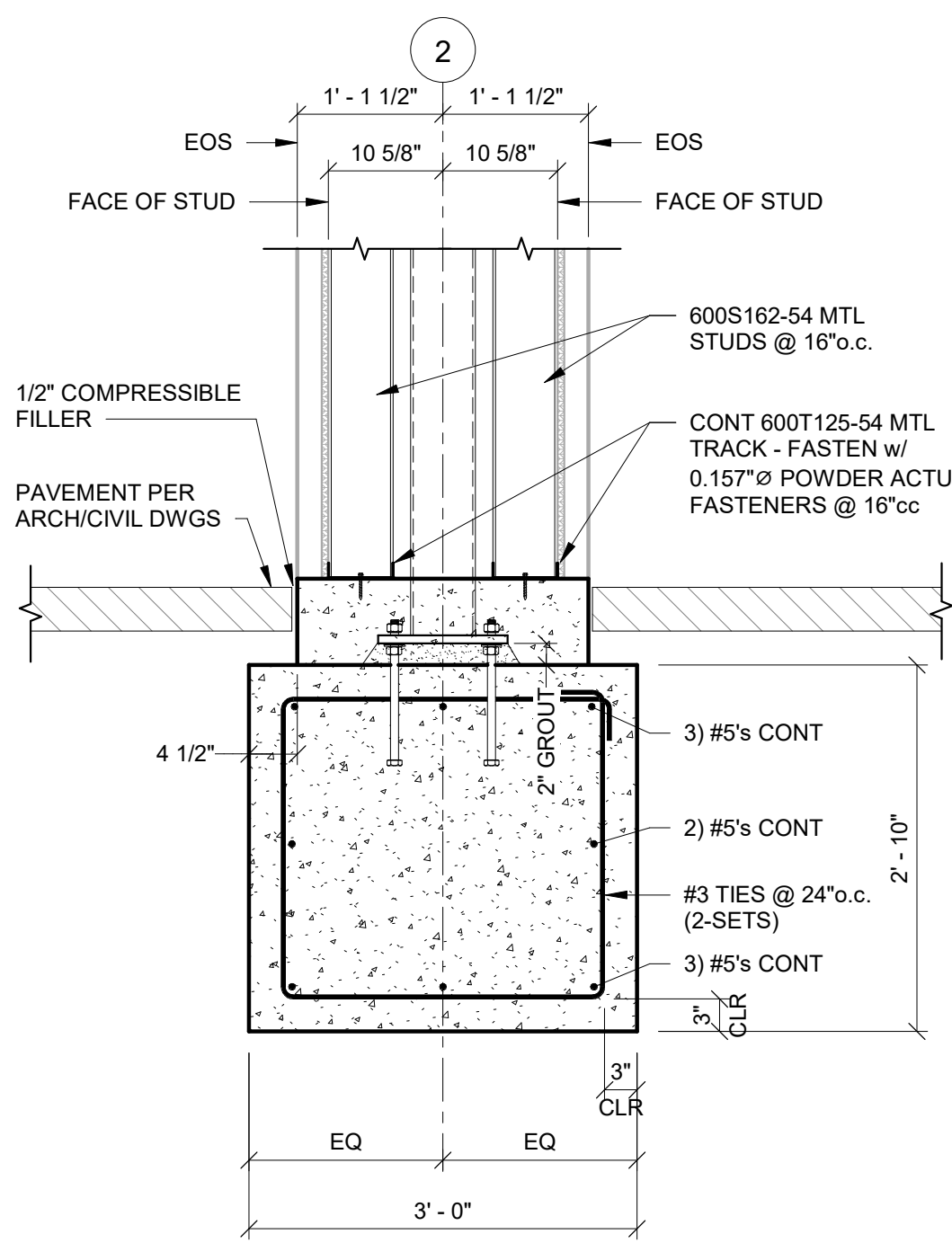
SECTION @ STORE ENTRY DOOR



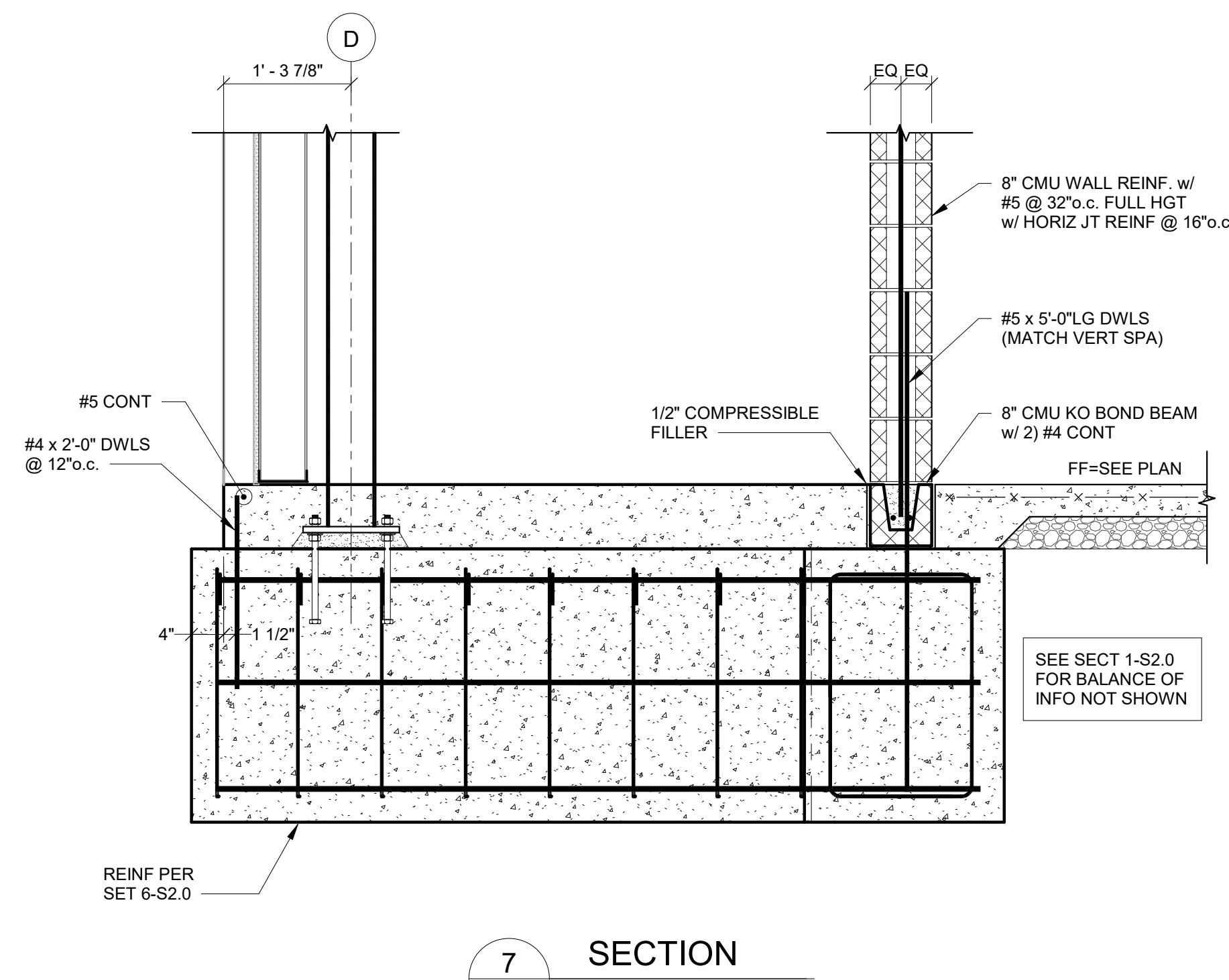
TYPICAL MANDOOR OPENING



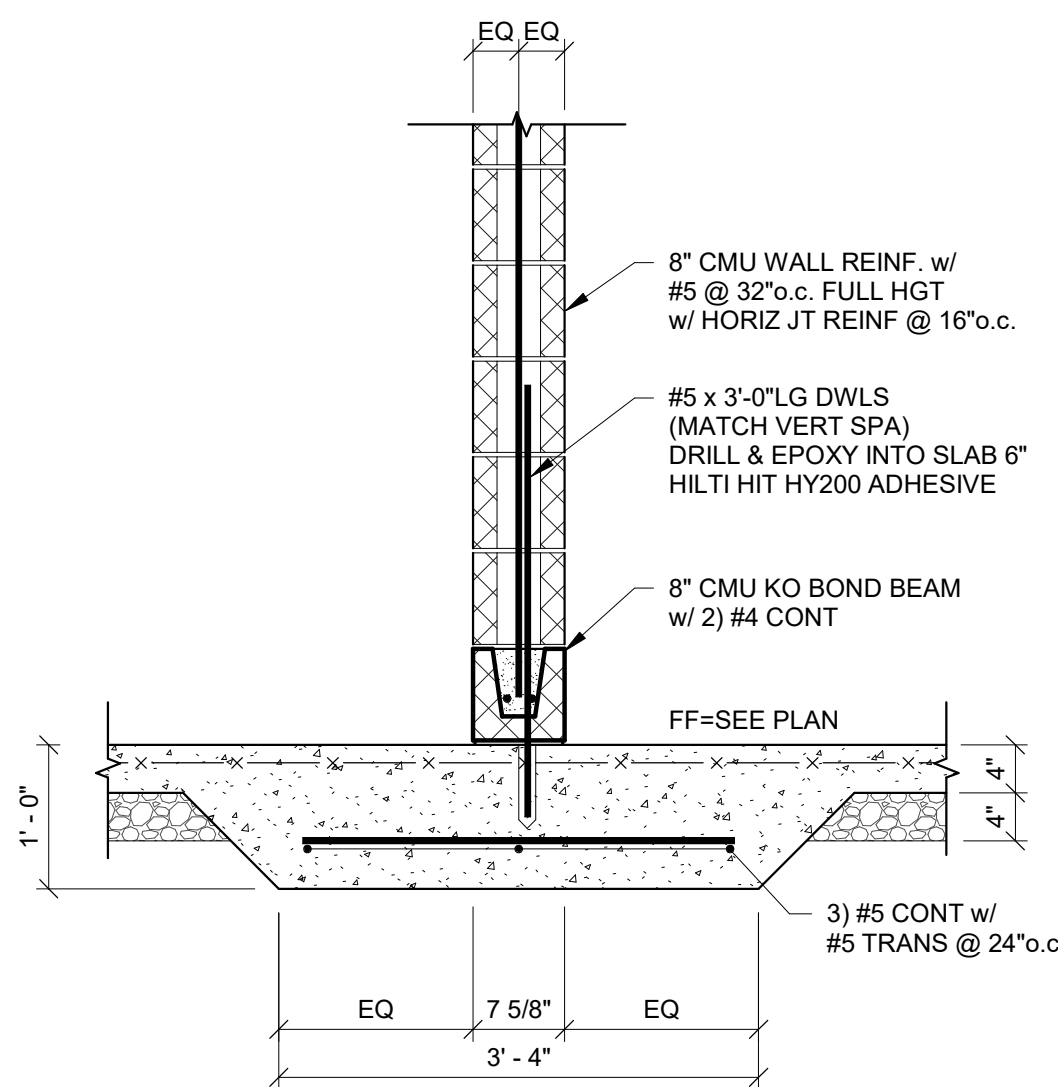
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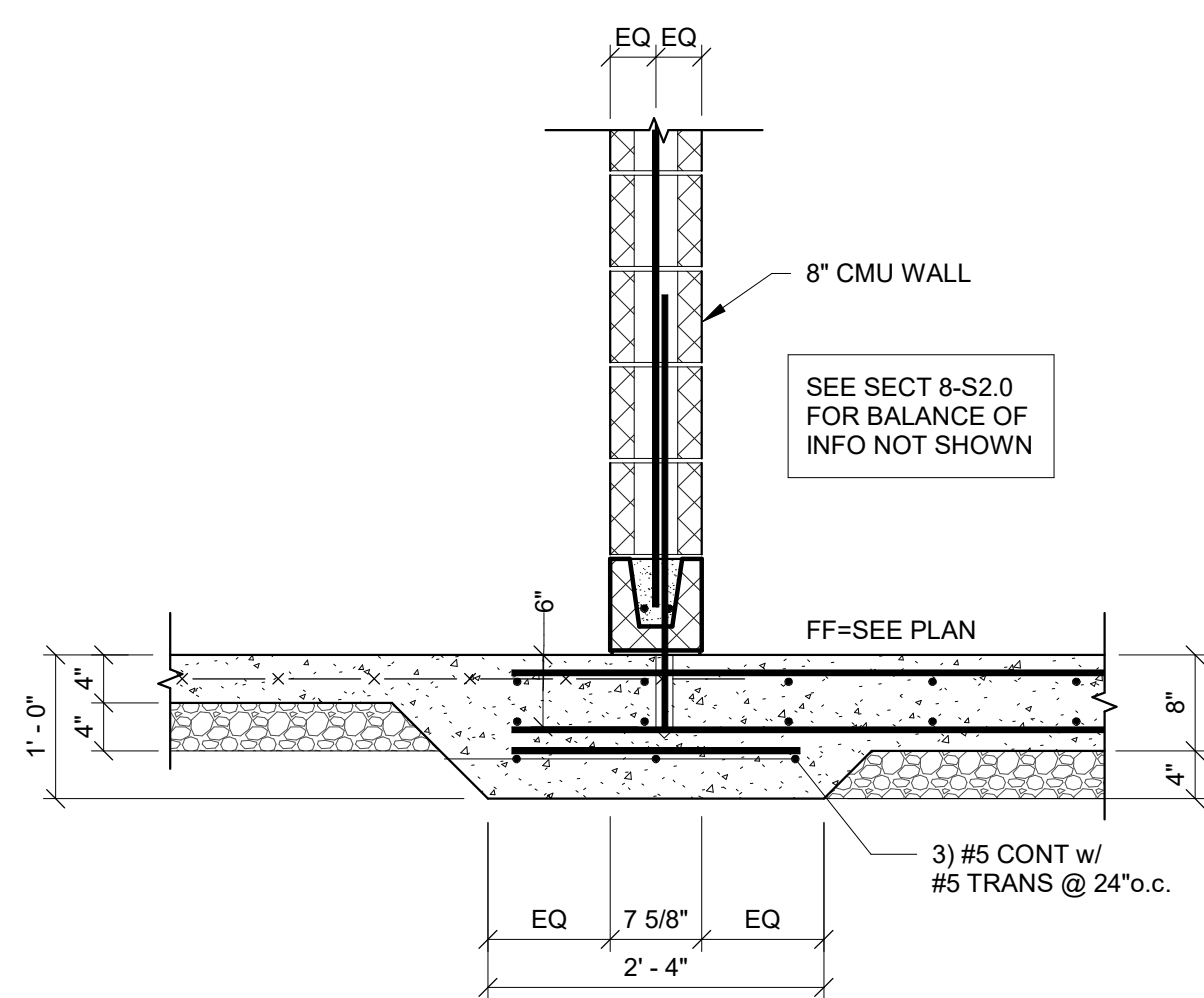
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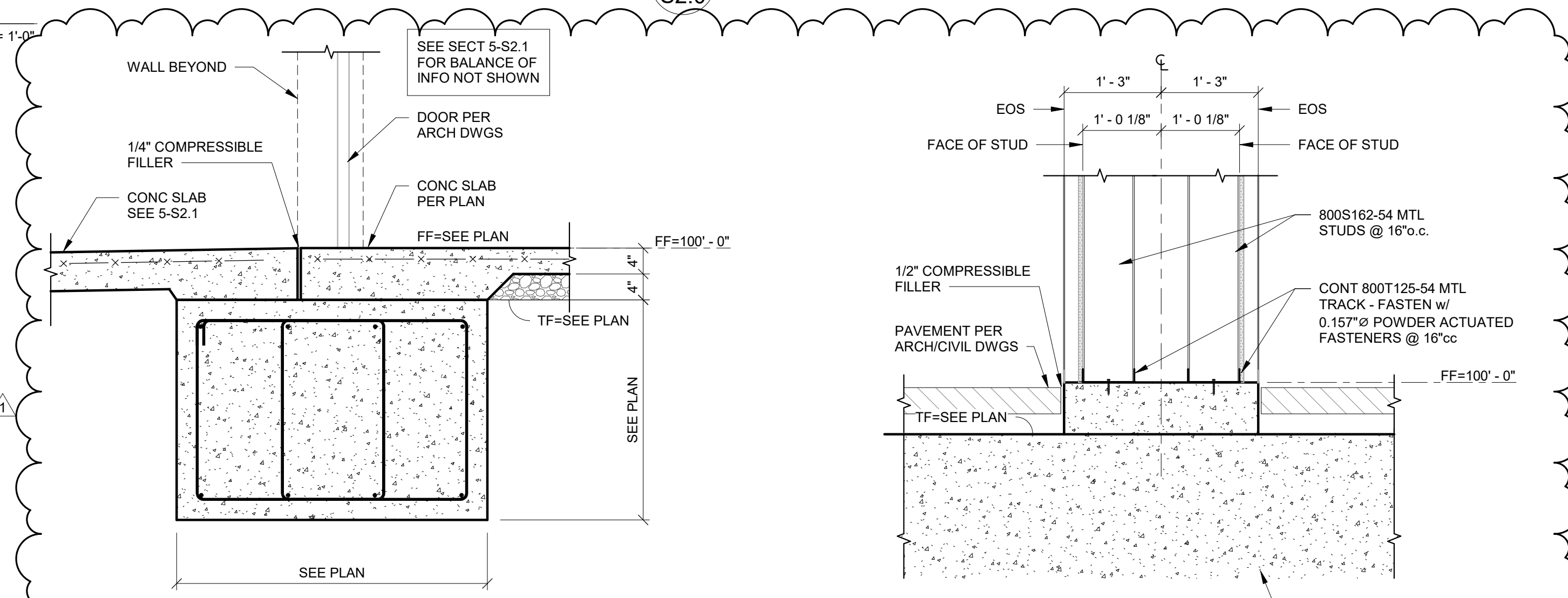
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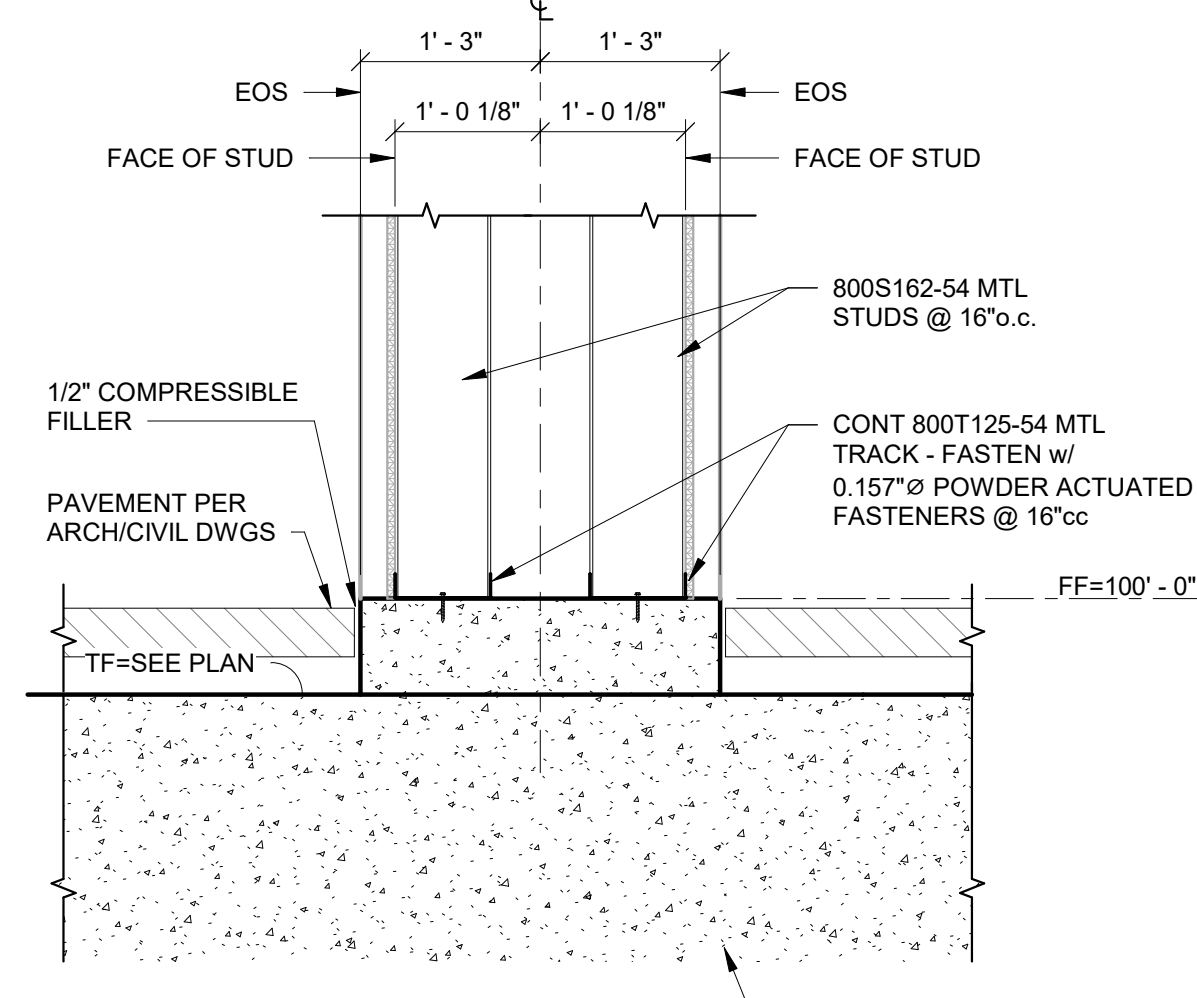
SECTION 8



SECTION 9



SECTION 10



SECTION 11



Revisions:

1 PERMIT COMMENTS 8/6/24

FOUNDATION DETAILS AND SECTIONS

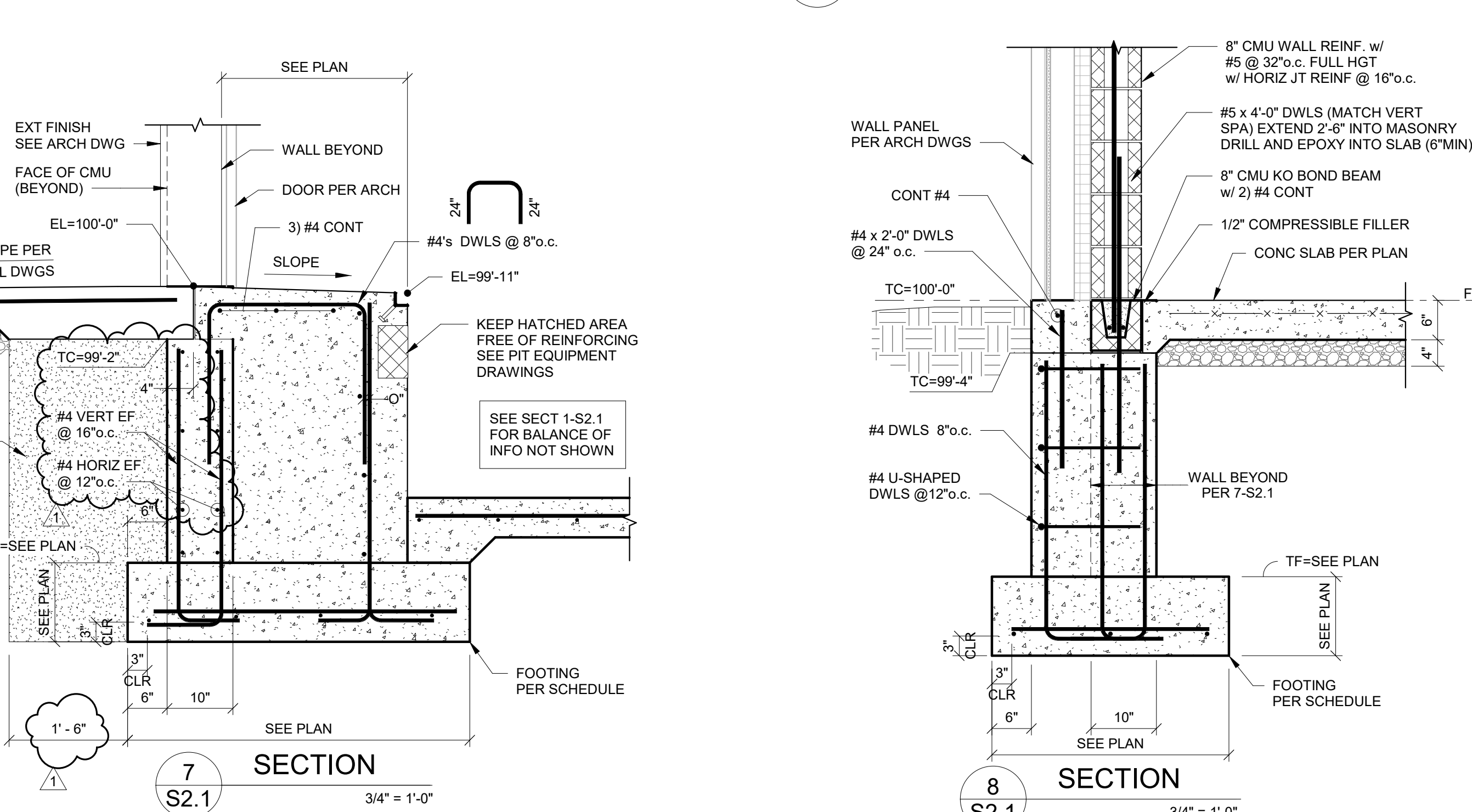
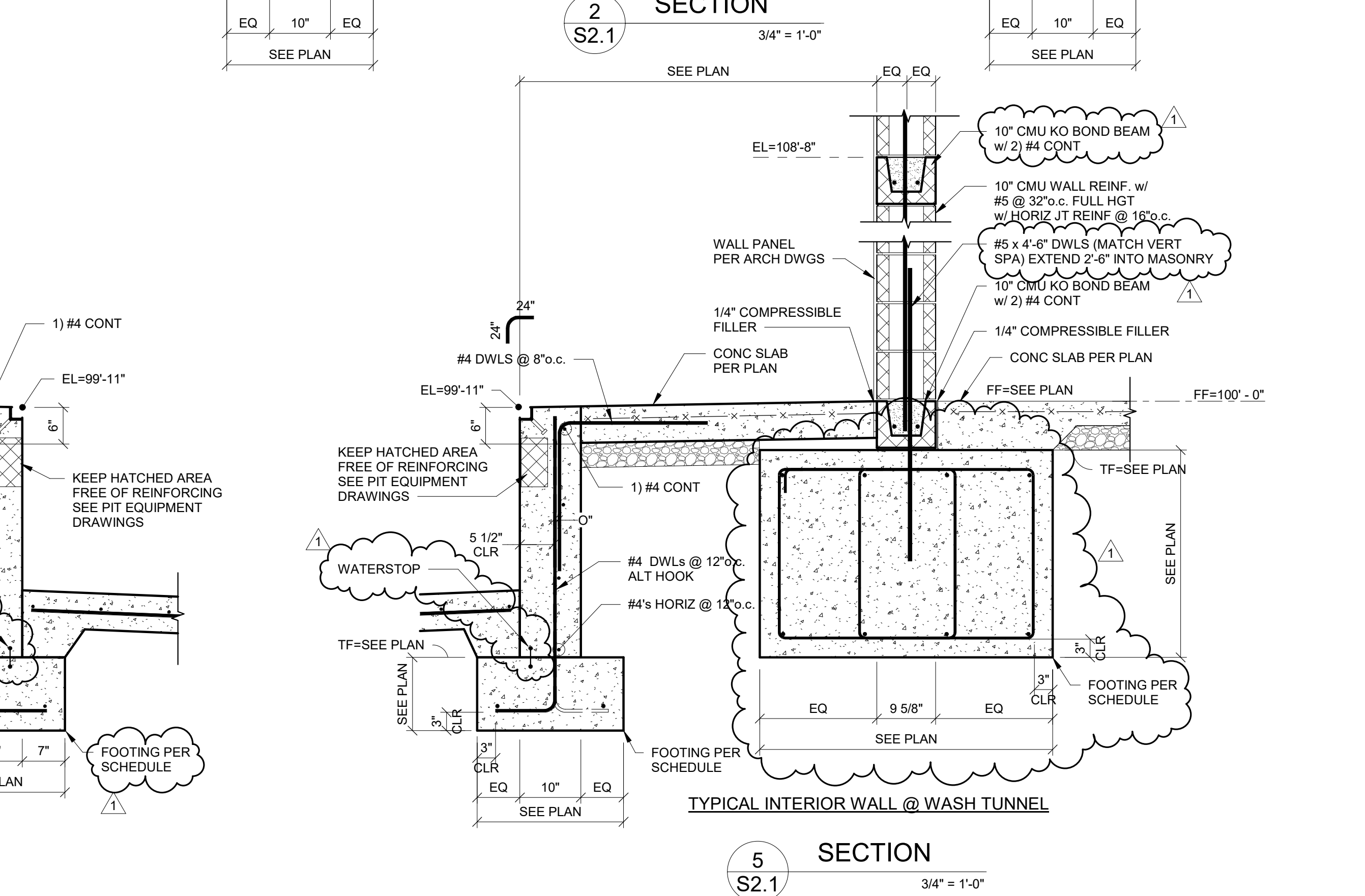
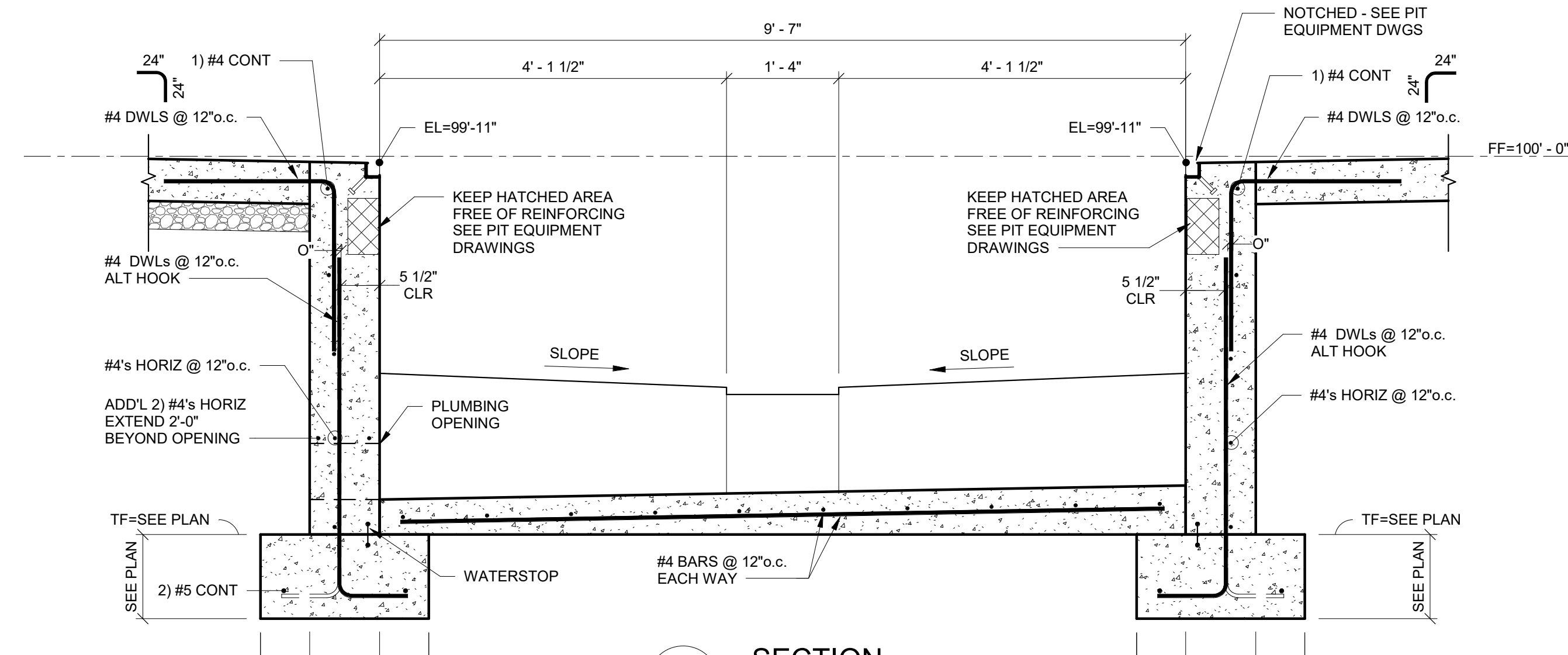
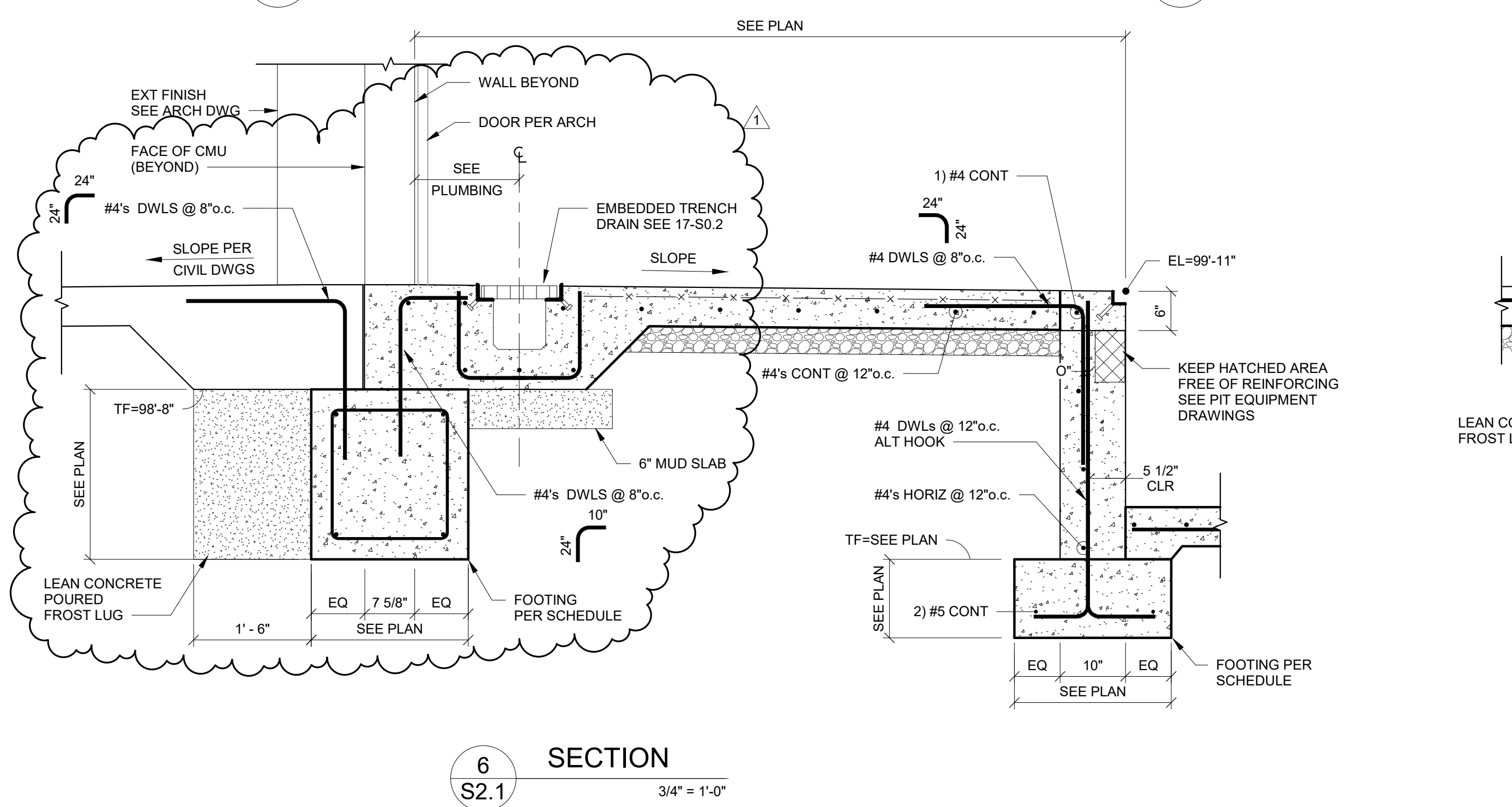
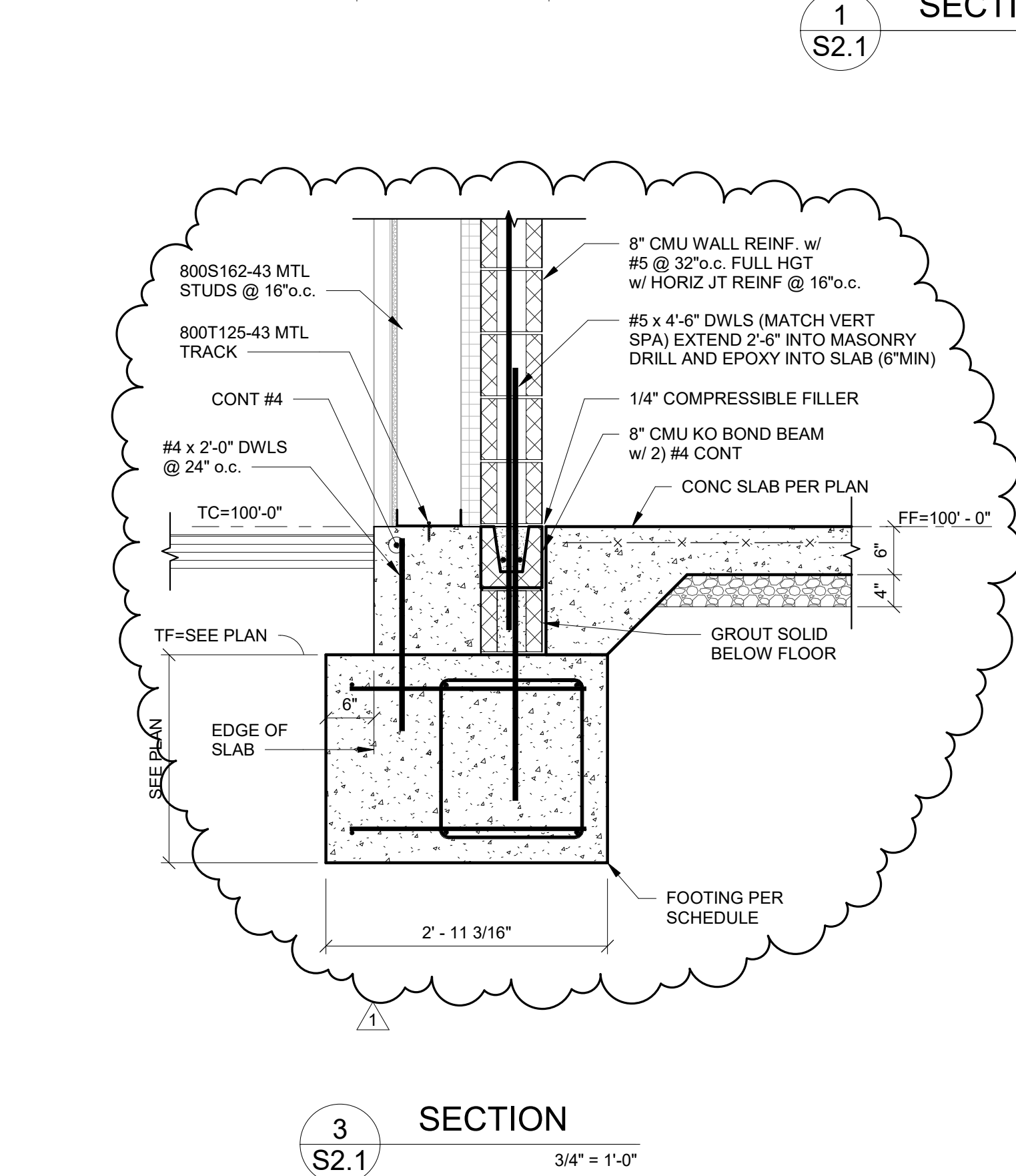
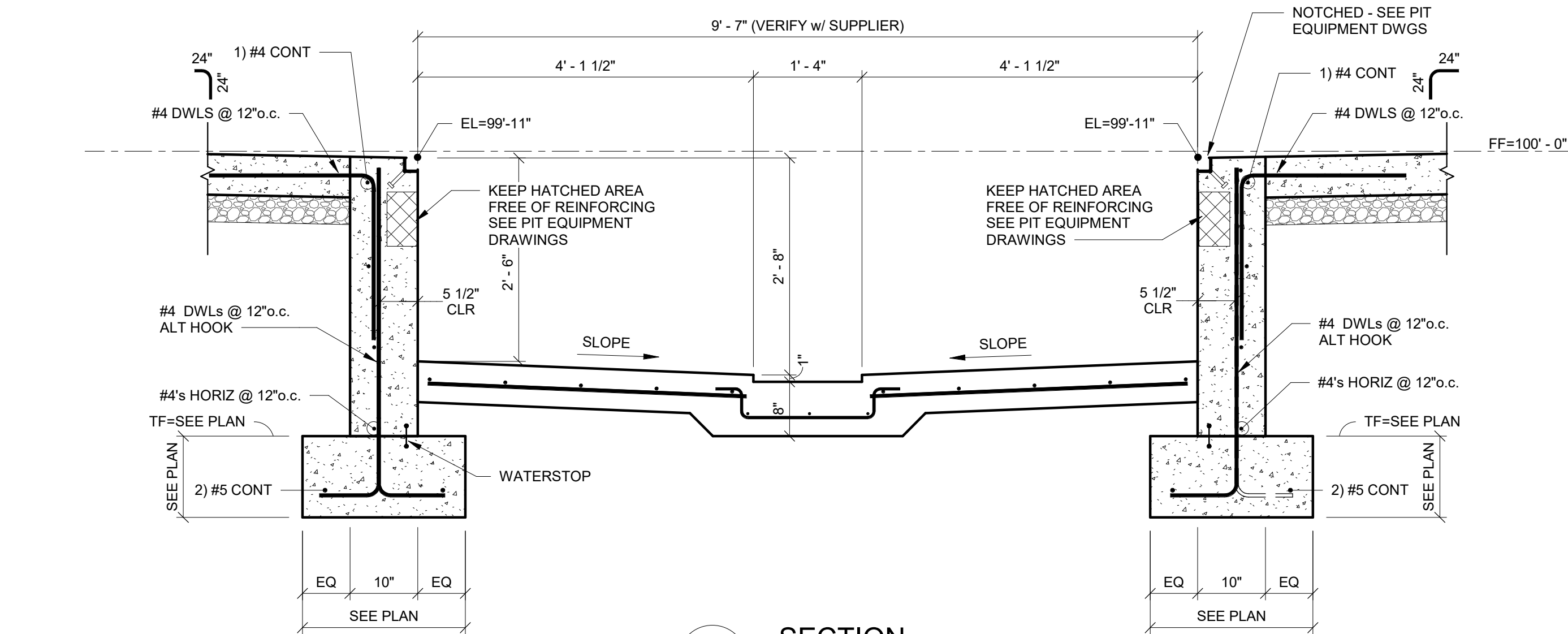
S2.0

Issue Date: 08/06/2024

Job Number: 21-002.07

8/6/2024 3:40:15 PM

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RENDERING OF ALL DIMENSIONS, FINISHES, MATERIALS, ETC., SHALL NOT BE CONSIDERED PART OF THE CONTRACT.
RESPONSIBILITY OF THE UNDERSIGNED: K24-074



Exp 12-31-25

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Revisions:

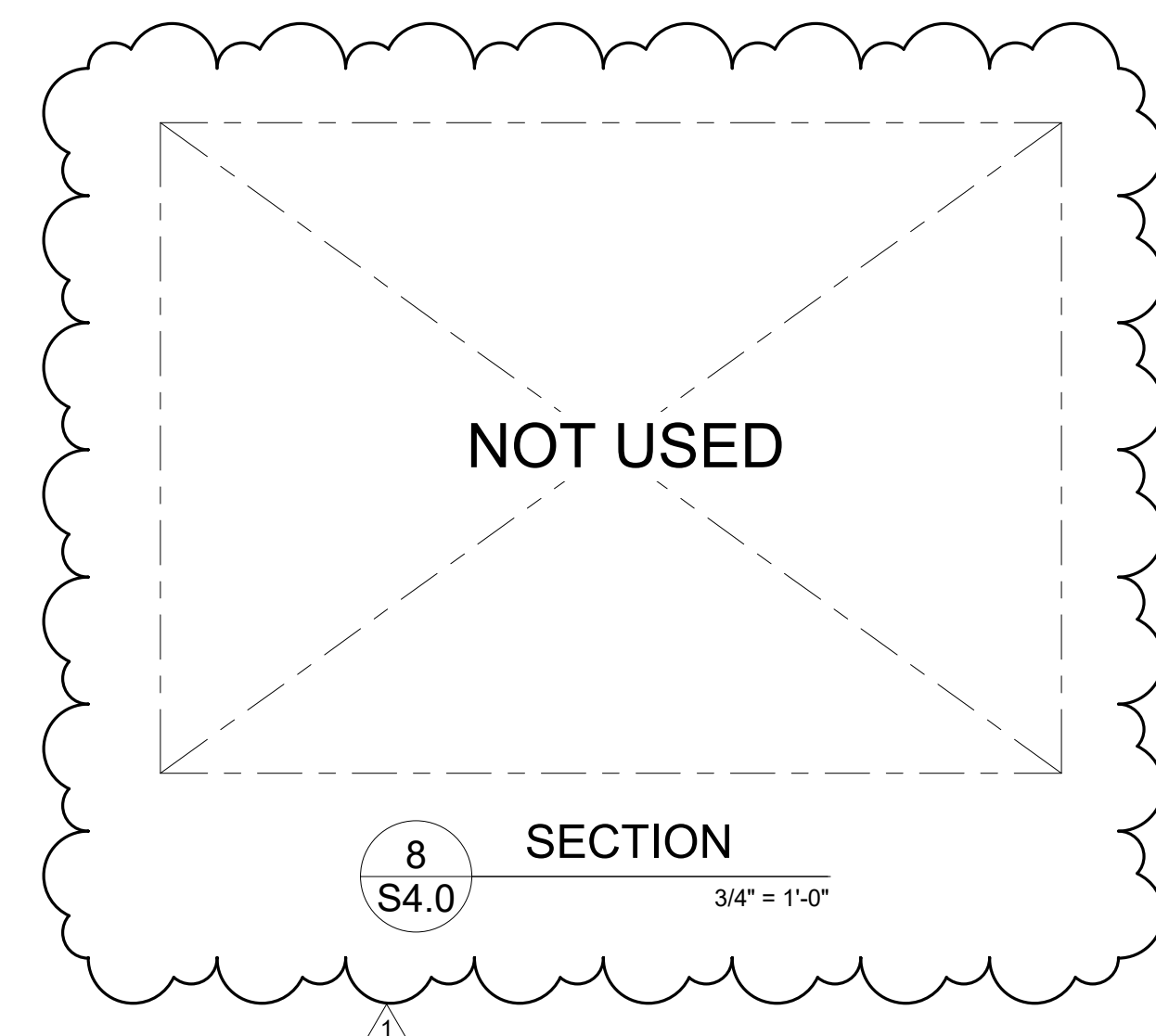
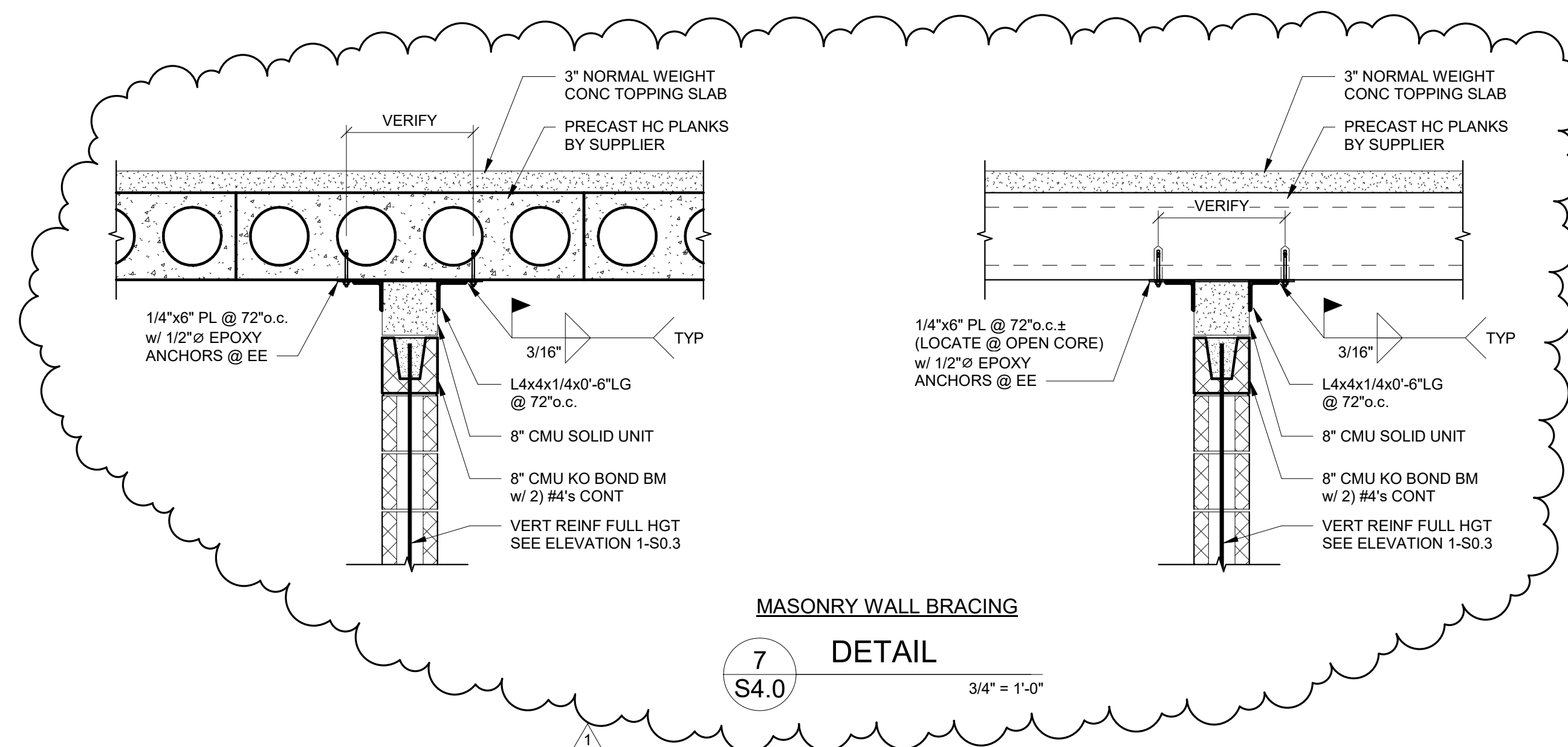
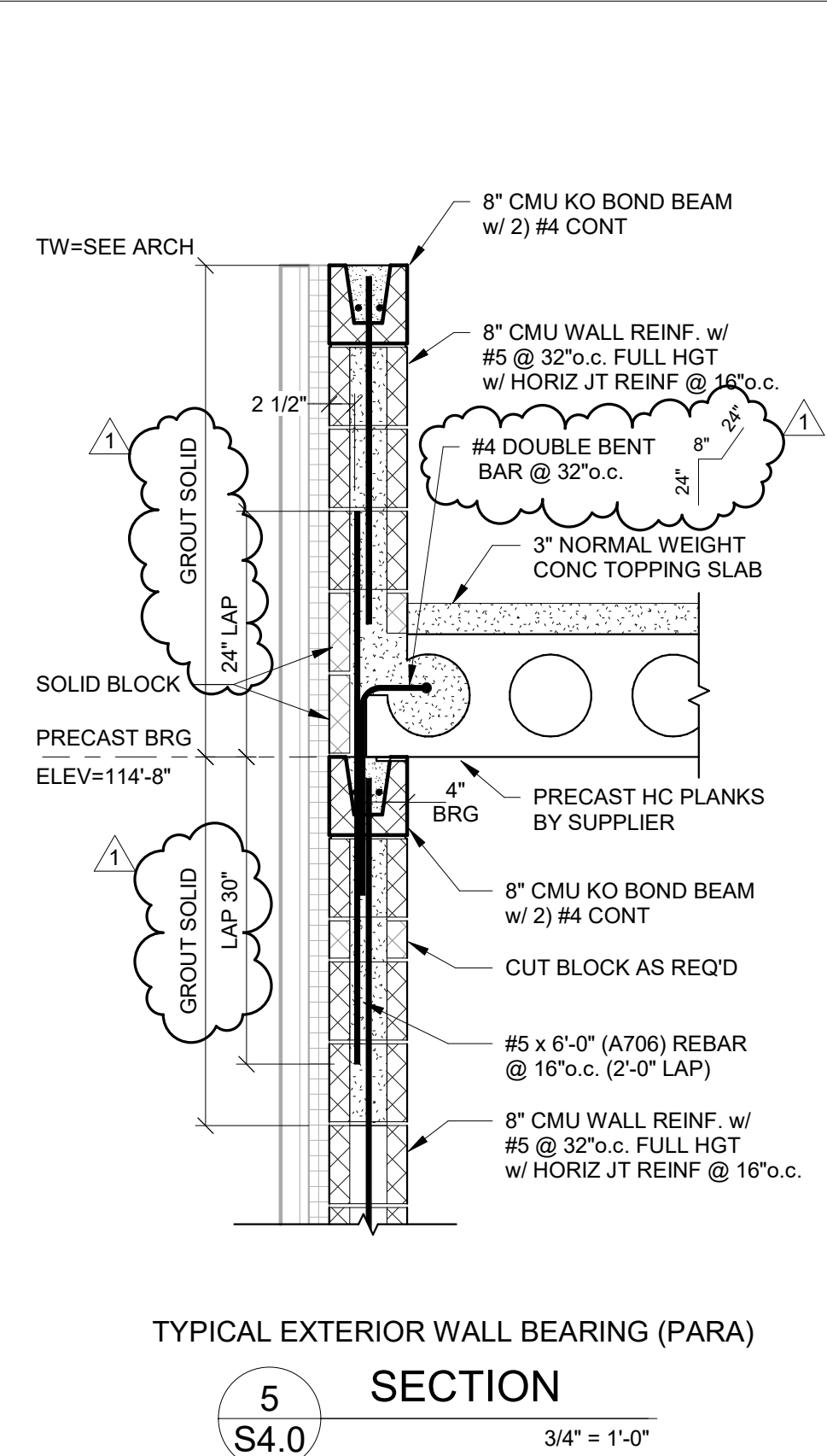
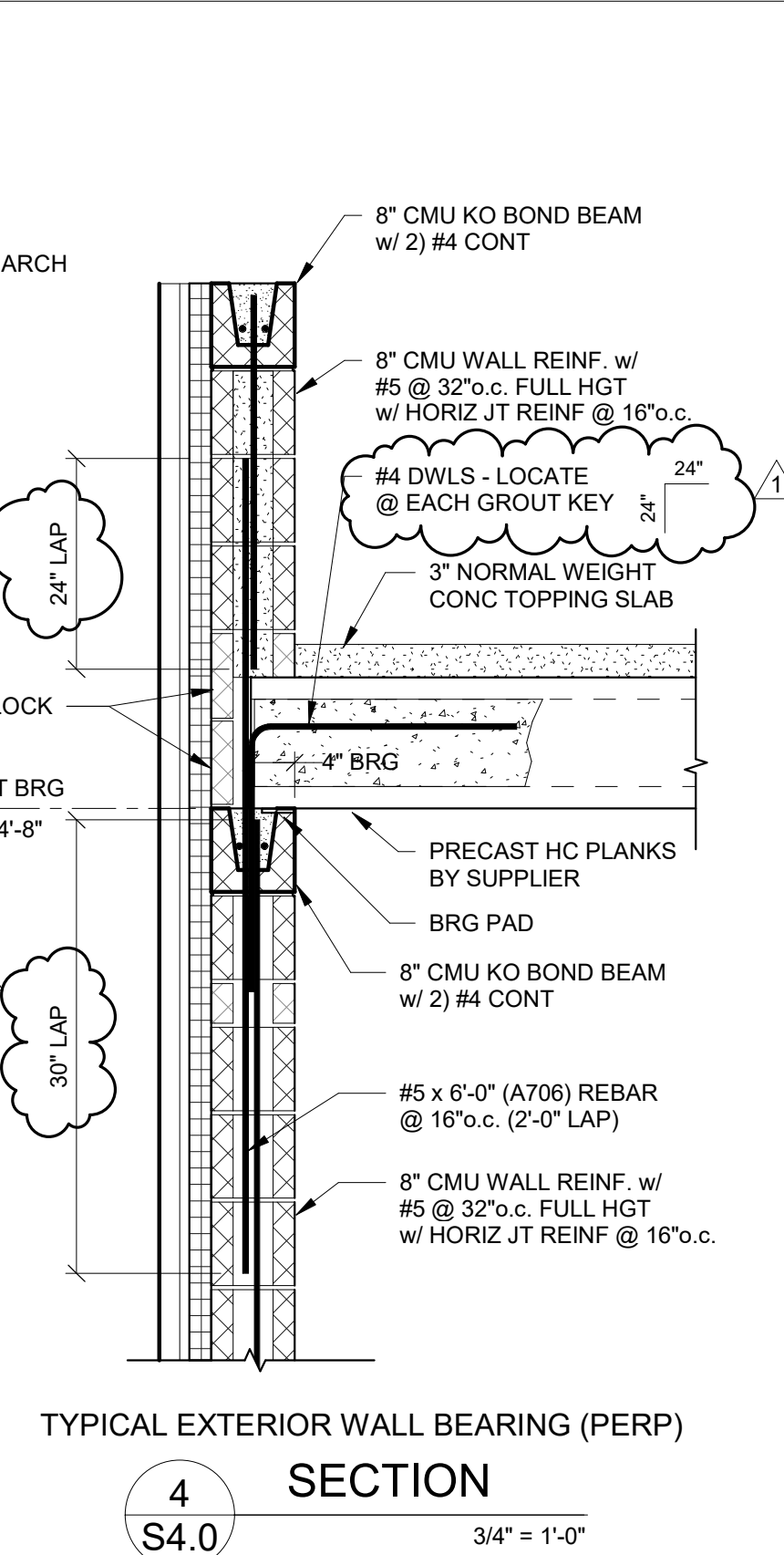
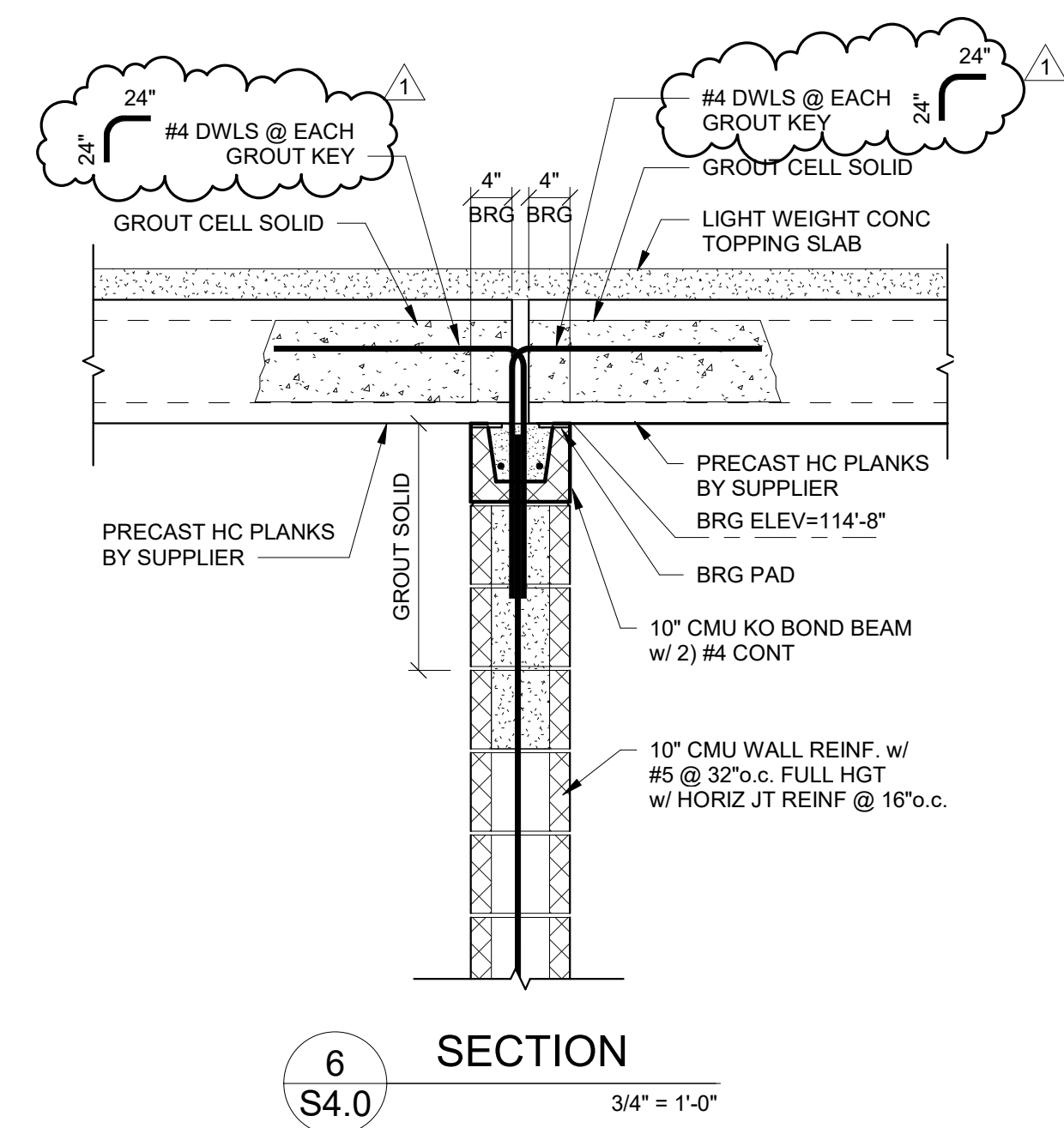
1 PERMIT COMMENTS 8/6/24

FOUNDATION DETAILS AND SECTIONS

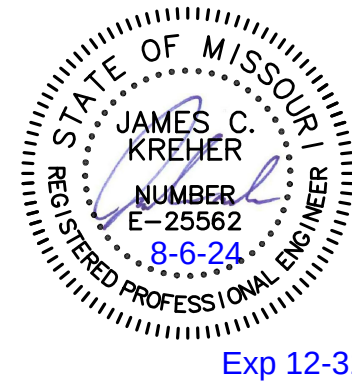
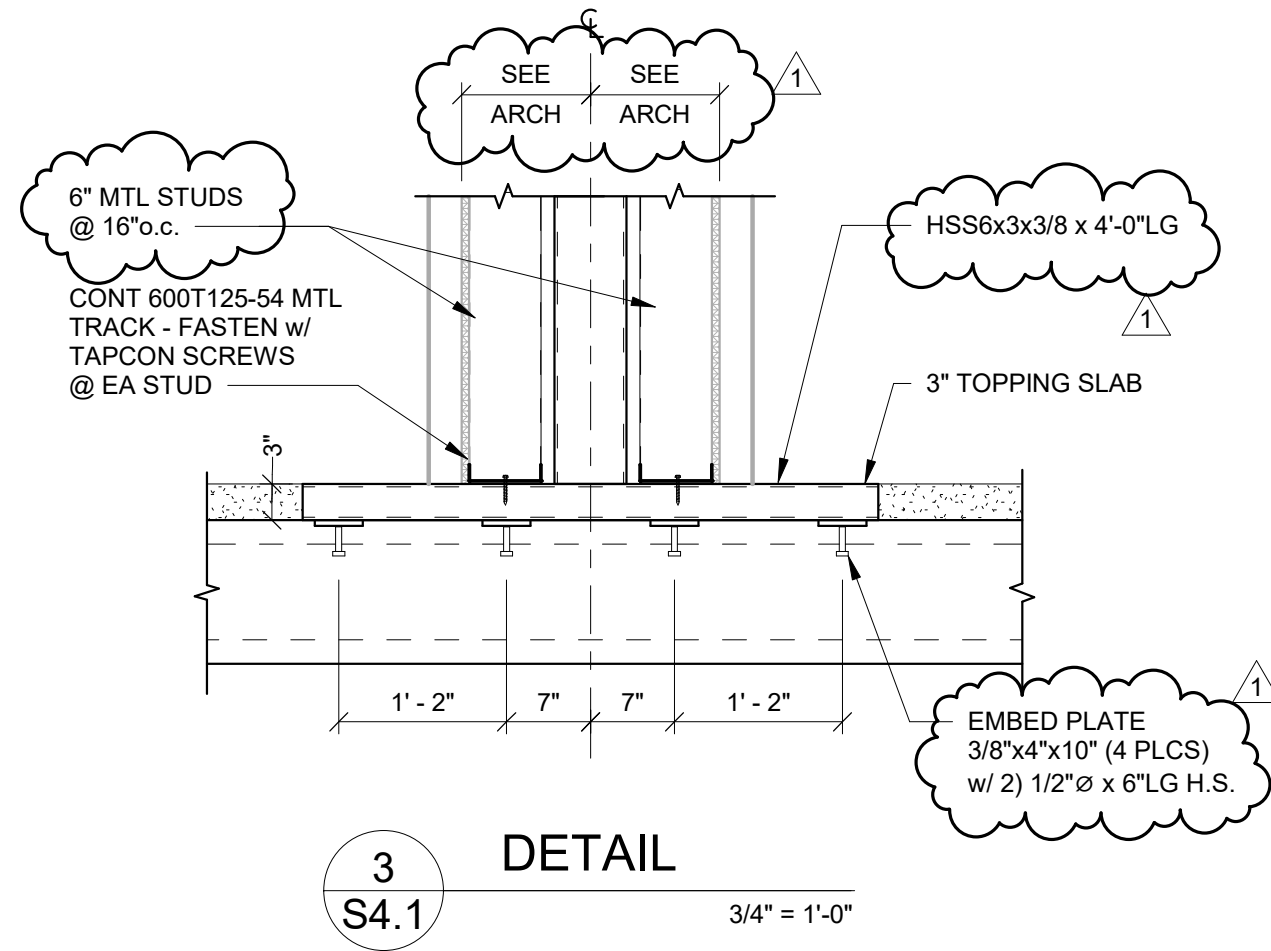
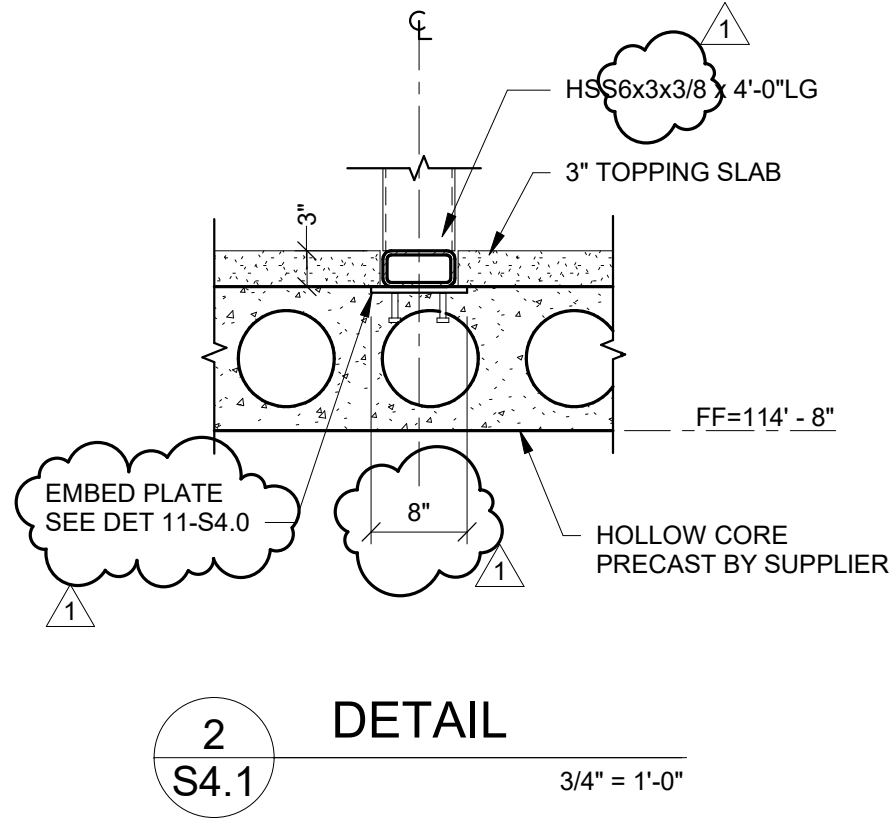
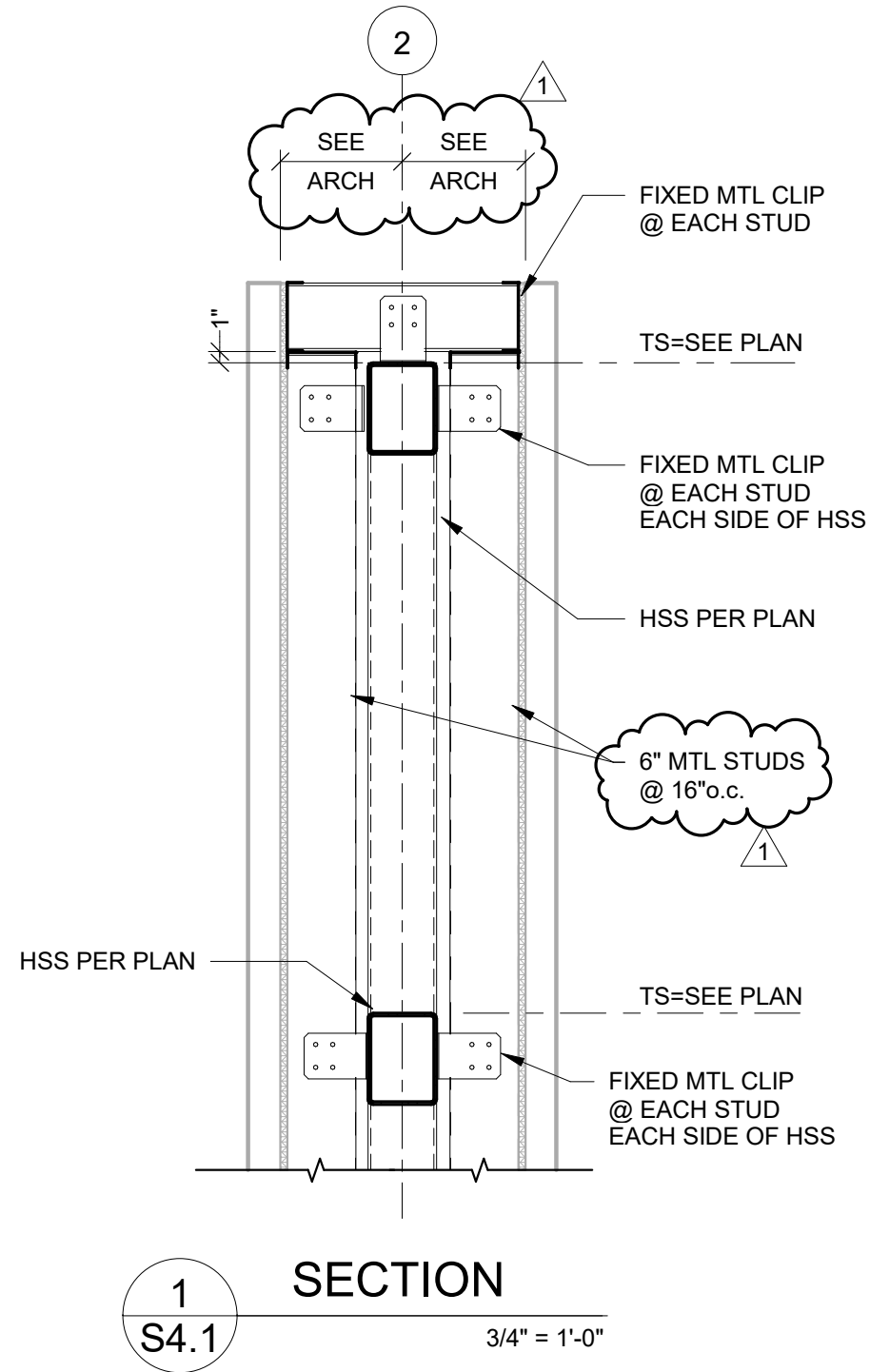
S2.1

Issue Date: 08/06/2024

Job Number: 21-002.07



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THE ABOVE ENGINEER HAS PREPARED OR DIRECTED THE PREPARATION OF THE DRAWING AND HAS REVIEWED THE DRAWING FOR THE PURPOSES OF THE PROFESSIONAL ENGINEERING ACT AND THE ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY, COMPLETENESS AND STATUS OF THE INFORMATION AND DATA PROVIDED HEREON.
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Revisions:

1	PERMIT COMMENTS	8/6/24
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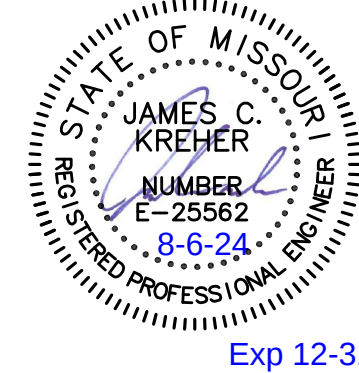
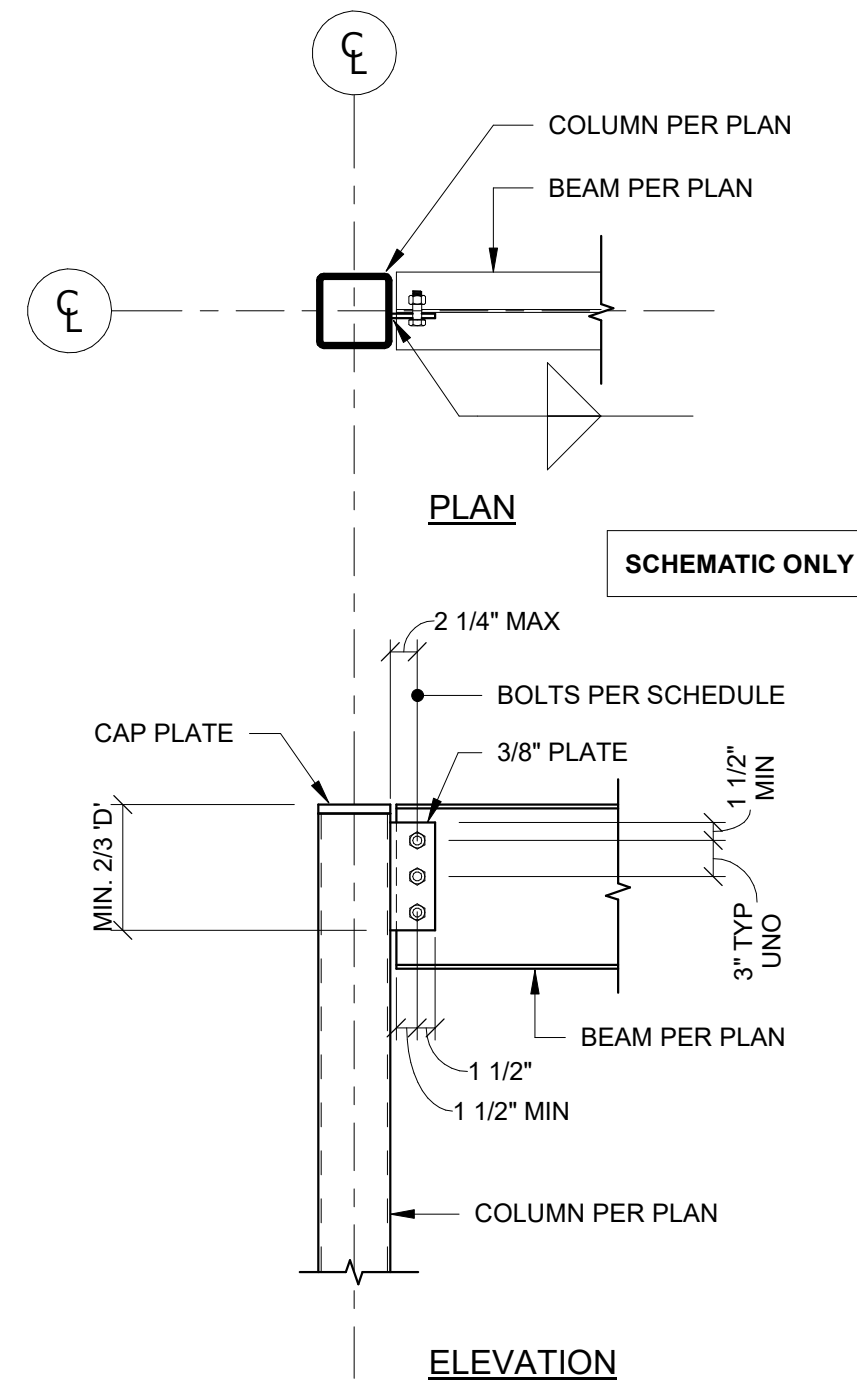
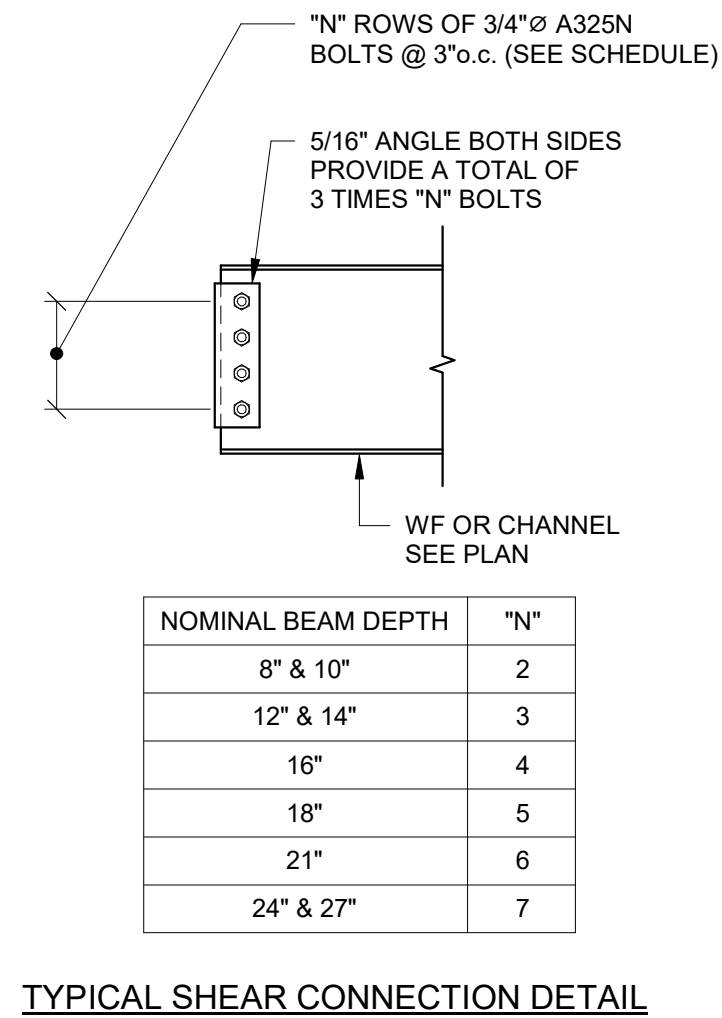
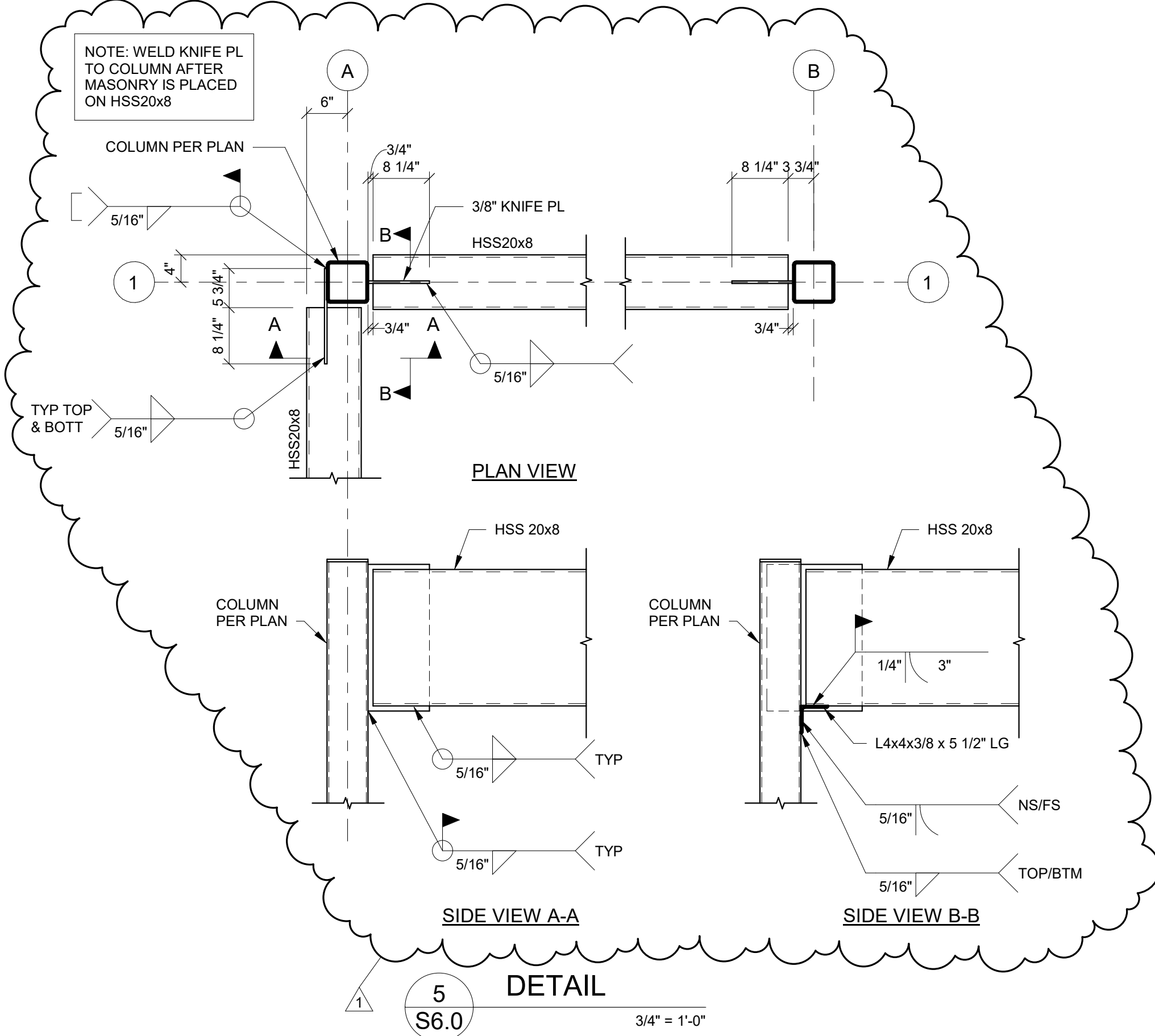
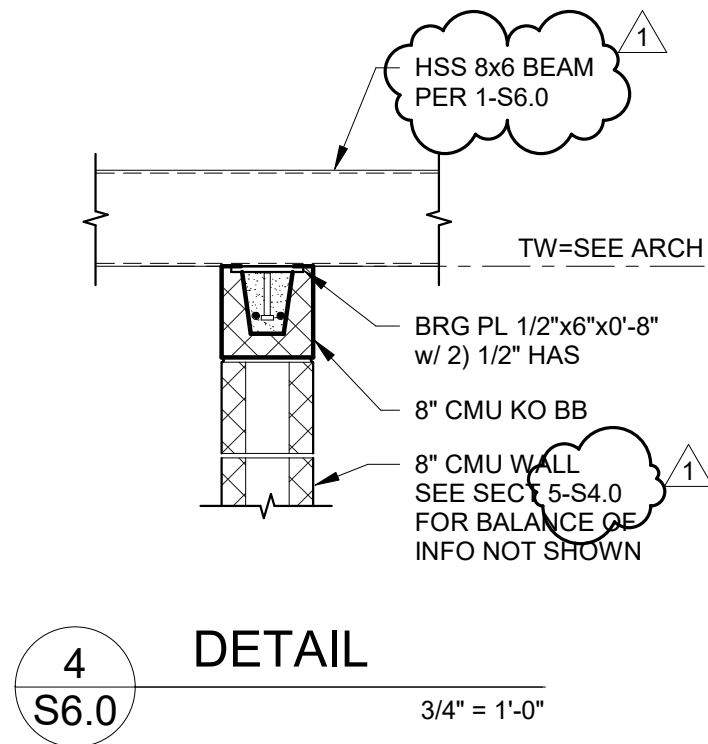
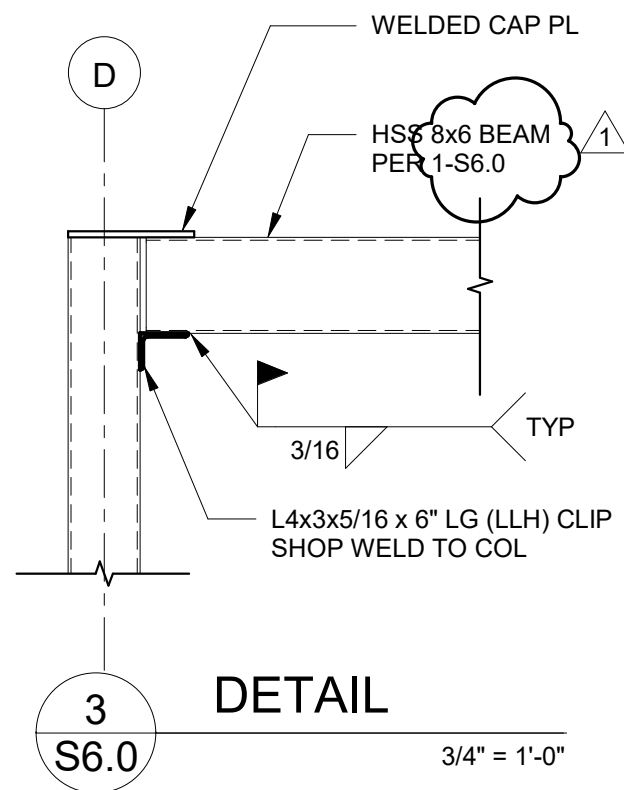
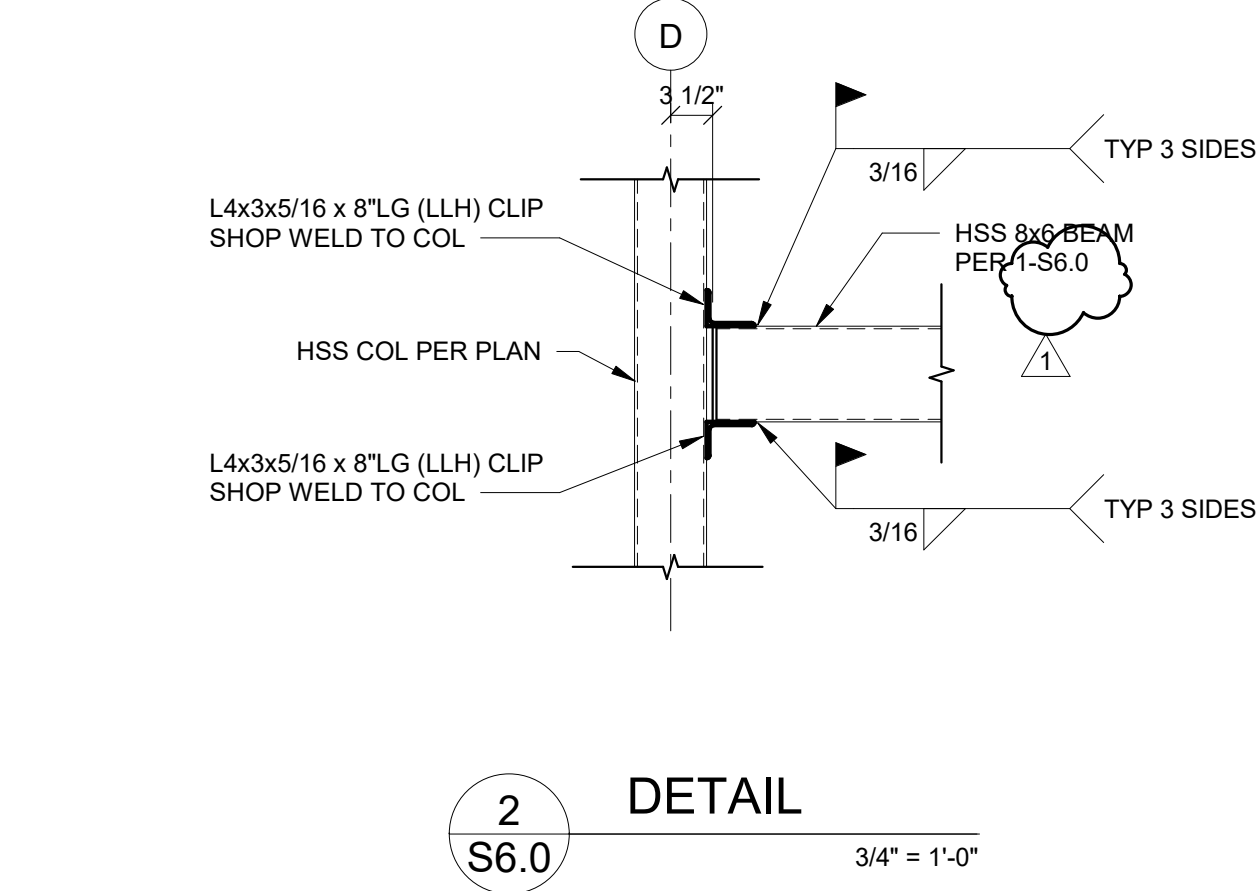
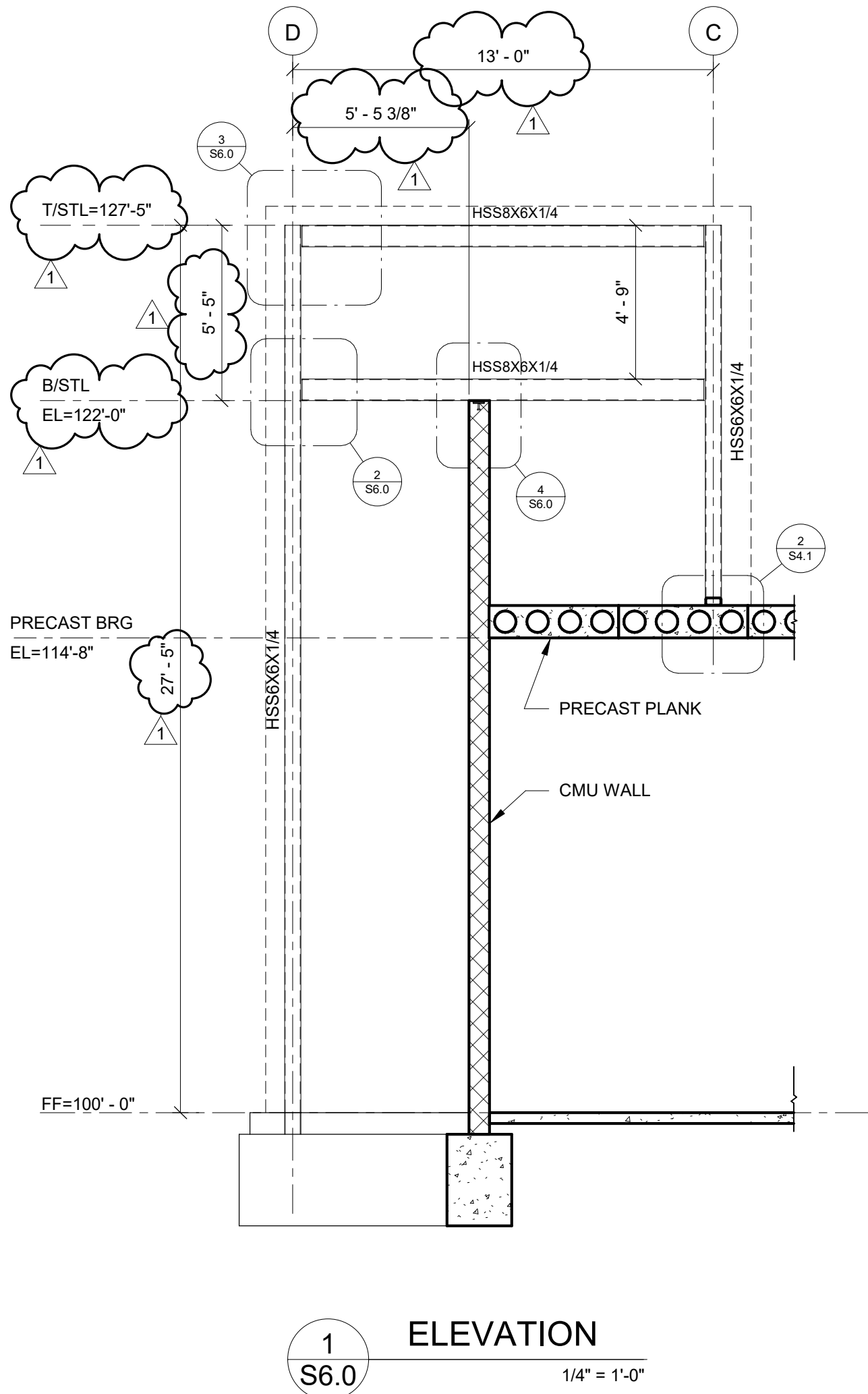
ROOF FRAMING DETAILS AND SECTIONS

1
S4.1

Issue Date: 08/06/2024

Job Number: 21-002.07

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Revisions:

NO.	DESCRIPTION	DATE
1	PERMIT COMMENTS	8/6/24

BUILDING SIGNAGE
DETAILS

S6.0

Issue Date: 08/06/2024

Job Number: 21-002.07