



City of Bartlett
David Parsons, Mayor

DESIGN REVIEW COMMISSION AGENDA

Tuesday, July 16, 2024 – 6:30 P.M.
Bartlett City Hall Assembly Chamber

Opening Prayer

****Official Business of the Day****

Minutes of the Tuesday, March 19, 2024 Meeting

NEW BUSINESS

Site Plan

1. 7 Brew, 5905 Stage Road (Sam Watkins, The Reaves Firm, Inc.)
2. Little Caesars Retail Shell, 7418 Highway 70 (Guy Payne, Guy Payne and Associates Architects)

Open Discussion

The public shall be provided an opportunity to address the Board or Commission during an Open Discussion period at the end of each regular and special meeting of the governing body. Prior to the start of the meeting, individuals will be required to complete and present to the Clerk the Open Discussion Citizen form provided at each meeting. The Open Discussion period for regular and special meetings of the Board or Commission shall be limited to twenty (20) minutes. Individuals shall be allowed to speak for up to three (3) minutes each. Open Discussion periods will not be held for any meeting where there are no actionable items on the agenda or meetings where the governing body is conducting a disciplinary hearing for a member of the governing body or a person whose profession or activities fall within the jurisdiction of the governing body.

Adjourn

DESIGN REVIEW COMMISSION

Tuesday, July 16, 2024 – 6:30 P.M.

Bartlett City Hall Assembly Chamber

Staff Comments

NEW BUSINESS

Site Plan

1. **7 Brew, 5905 Stage Road (Sam Watkins, The Reaves Firm, Inc.)**

INTRODUCTION: Mr. Sam Watkins with The Reaves Firm is requesting Design Review Commission approval of a Site Plan for the 7 Brew Coffee Shop. The subject property is located at 5905 Stage Road, and it is within the “CG-MS” General Business with a Main Street Overlay Zoning District.

BACKGROUND: On July 1, 2024, the Planning Commission approved a Site Plan application for the 7 Brew Coffee Shop. The specifics of the approved site plan are as follows:

Site Data	
Site Area:	36,764 square feet/.844 acres
Total Required Parking Spaces:	14
Total Proposed Parking Spaces:	11
Handicap Accessible:	1 van accessible
Regular Customer Parking:	10
Proposed Building Area:	766 total square feet
- Coffee Shop	514 square feet
- Cooler	252 square feet
Greenspace/Open space:	42%
Building Height:	One story

DISCUSSION: The specific request to the DRC by the applicant is for the approval of building elevations, landscaping, lighting details, mechanical, and dumpster enclosure. The specifics of the site plan are as follows:

Elevations: The front elevation of the drive-thru only restaurant faces north toward Stage Road. The main entrance to the building is on the west elevation while there are two sliding glass doors at the drive-thru on the east elevation. All four elevations of the building will consist of Nichiha Vintage Brick in Alexandria Buff. The north, east and west elevations will have Nichiha horizontal v-groove panels in white above the water table. The windows and sliding doors will be

black aluminum with clear glass. The soffit, fascia, coping cap and curved standing seam roof will be "Pacific Blue" by Drexel Metals. The south elevation has an employee door painted to match the Nichiha Vintage Brick in Alexandria Buff. Above the employee door is a metal canopy in "Pacific Blue" by Drexel Metals.

To the west of the primary structure is a 246 square foot cooler with Nichiha Vintage Brick in Alexandria Buff on all 4 sides and Nichiha horizontal v-groove panels in white on the east and west elevations. On the north elevation of the cooler is an employee door painted to match the Nichiha Vintage Brick in Alexandria Buff.

A metal canopy connects the cooler and the restaurant then continues on covering the two drive thru lanes. The proposed canopy will be "Pacific Blue" by Drexel Metals while the steel columns, beams and pipe bollards will be Sherwin Williams "Salty Dog" (SW9177). The canopy, the curved roof and the rear canopy will have blue LED rope recessed downlighting illuminating all sides.

Landscaping: The majority of the proposed landscaping will be located around the perimeter of the property. Existing landscaping on the property will be incorporated into the site plan. The proposed landscape plantings are as follows: 34 "Tall Orange" Daylily, 32 Dwarf "Burford" Holly, 8 "Nicks Compact" Juniper, 60 "Big Blue" Liriope, 125 Variegated Liriope, 1 "Sweetbay" Magnolia, 5 Maiden Grass, 3 "Bosque" Elms, 3 "Blue Muffin" Viburnum, 10 Purple Pixie Dwarf Fringe Flower, 34 Ed Goucher Abelia, 17 "Stokes Dwarf" Yaupon Holly, "Tifway" Bermuda Sod and Bermuda Seed.

Lighting: The proposed lighting will be 1 McGraw-Edison Lighting TLM 4K LED double head bronze fixtures and 3 McGraw-Edison Lighting TLM 4K LED single head bronze fixtures with house side shields on a 25 foot dark bronze square poles will be lighting the parking lot. Under the metal canopy, there will be 26 Juno Type B 4K LED canopy lights. The Average foot-candles for the proposed site is 2.5 FC.

Mechanical: All mechanical units will be located on the roof screened by a parapet wall.

Dumpster Enclosure: The dumpster enclosure is located on the southwest side of the property. The dumpster enclosure will consist of a split face CMU painted Sherwin Williams "Toile Red" (SW 00006) to match the building elevations. The metal gate panels will be painted Sherwin Williams "Salty Dog" (SW9177). The enclosure will be screened with shrubs.

Recommendation: Approval with Conditions.

Planning Comments:

1. The Bartlett Zoning Ordinance requires 14 spaces per 1,000 square feet of building space for a Fast Food Restaurant land use. The 514 square foot coffee shop is drive through only and has an occupancy load of 4 persons. The applicant has provided 11 parking spaces, which includes 1 ADA compliant space. On July 1, 2024, per Ordinance 15-6, the Planning Commission, at site plan review voted to approve a minimum number of required parking spaces (11 spaces) different from those listed in Figure VI-12a of the Bartlett Zoning Ordinance Parking Design Requirements.

Planning Conditions:

1. According to Article VI, Part III, D.4 all parking spaces must be a maximum distant of 75 feet from a tree.
2. The applicant shall include the parking space details on the Building Summary Table on page SA1.
3. The applicant shall include quantity of light fixtures in lighting fixture schedule.
4. Irrigation and maintenance is required for all planting on the landscape plan indefinitely.
5. All proposed signage shall be submitted on a separate application to the Design Review Commission.
6. The owner/applicant shall identify all utilities on site by contacting Tennessee One Call at 811 before commencing any site work.
7. The applicant must submit a form board survey to Code Enforcement detailing the building setbacks and landscape buffers from all property lines for building permit approval.
8. Owner/applicant shall be present at the meetings in order to make decisions relative to any changes that may be suggested by the Design Review Commission.

Engineering Conditions:**General:**

- 1) A Commercial Site Plan contract may be required and will be prepared by Engineering and submitted to the developer/engineer for review to cover the fees to be paid to the City of Bartlett.
- 2) If required, Applicant/ Engineer shall provide a **digital set of drawing** files showing the sanitary sewer lines, drainage lines, lot lines and all improvements in AutoCAD format to dhubbard@cityofbartlett.org and ecampbell@cityofbartlett.org for use in the preparation of the Water Design Plan. This plan will be coordinated with the site design engineer to resolve any conflicts.
- 3) A SWPPP and a TDEC NPDES permit may be required and shall be submitted to the TDEC and the City of Bartlett Engineering office.

- 4) Detention will be required as part of this development as the Storm Water Ordinance specifies a zero increase in post development.
- 5) All new utilities shall be underground.
- 6) Correct all markups.

Utility Plan:

- 7) Existing water meter is to be relocated out of driveway.
- 8) Sewer cleanout in driveway to be per City of Bartlett specifications.
- 9) An irrigation water service and meter is required.

Traffic Control Plan:

- 10) A traffic control plan is not required for work identified on this plan set.

2. Little Caesars Retail Shell, 7418 Highway 70 (Guy Payne, Guy Payne and Associates Architects)

INTRODUCTION: Mr. Guy Payne with Guy Payne and Associates Architects is requesting Design Review Commission approval of a Site Plan for a new four tenant retail building. The subject property is located on the vacant lot located at 7418 Highway 70, and it is within the "C-G" General Business Zoning District.

BACKGROUND: The subject property is the former location of the Siesta Motel building that was demolished in August 2014. The subject property is a legal lot of record that was created by deed in Book 3054, Page 1 in January 1953. This recorded deed predates the Subdivision Ordinance date of March 6, 1956, so the subject property is eligible for a building permit subject to Site Plan approvals from the Planning Commission and Design Review Commission.

On March 4, 2024, the Planning Commission approved a site plan for the subject property. The specifics of the approved site plan were as follows:

Site Data	
Site Area:	2.05 acres/89,298 square feet
Total Required Parking Spaces: (One space per 200 square feet)	30
Total Proposed Parking Spaces:	32
Handicap Accessible:	2 van accessible
Regular:	30
Proposed Building Area:	6,000 square feet
Greenspace/Open space:	69%
Building Height:	< 20 feet

DISCUSSION: The specific request to the DRC by the applicant is for the approval of building elevations, landscaping, and lighting details as follows:

Elevations: The front of the building is the south elevation. The front elevation consists of red brick and a metal mansard painted sierra tan. A metal awning painted sierra tan will be above the four aluminum storefront doors. The door and window trim will be aluminum painted sierra tan with clear glass. The side elevations are the east and west elevations, and they will consist of red brick and a metal mansard painted sierra tan. The east elevation will have no windows, and the west elevation will have a drive thru window for a proposed Little Caesars location. The rear elevation is the north elevation, and it will consist of red brick and a metal mansard painted sierra tan. Four service doors will be located on the north elevation. All doors will be sierra tan to match the metal awnings on the front elevation. All downspots and metal copings will be painted sierra tan.

Dumpster Enclosure: The dumpster enclosure is located to the rear of the building in the northeast corner of the property. The dumpster enclosure will consist of six foot tall wood pickets with wood picket composite gate panels attached to a steel frame with steel drop pins.

Mechanical: All mechanical units will be located on the rooftop and screened from public view behind a parapet wall.

Landscaping: The majority of the landscaping is proposed around the perimeter of the property with some internal landscape islands. The proposed landscape plantings are as follows: 16-Eastern Red Cedar, 4-Tulip Poplar, 3-Star Magnolia, 5-Evergreen Sweetbay, 4-Green Gable Black Gum, 4-Shoal Creek Chaste Tree, 31-Blue Cascade Distylium, 38-Carissa Holly, 27-Dwarf Yaupon Holly, 17-Miss Patricia Holly, 22-Little Kitten Maiden Grass, 45-Walker's Low Catmint, 29-Danica Arborvitae, and Tifway 419 Bermuda sod.

Lighting: The site will have eight Lithonia Lighting RSX1 4K LED pole fixtures on 20 foot tall dark bronze poles and an 18 inch tall concrete base with EGS shields, eight Lithonia Lighting WPXI full cutoff downward 4K LED wall packs, and eight Duallite full cutoff downward 4K LED wall sconce fixtures. There is no lighting spillover from the site. The overall foot candle average is 0.62 with the parking lot specific areas maintaining a 2.0 foot candle average.

Recommendation: Approval with conditions.

Planning Conditions:

1. All proposed signage shall be submitted on a separate application to the Design Review Commission.

2. Applicant shall identify all paint colors and numbers on exterior material legend.
3. Applicant shall identify all exterior materials by product name and style/color numbers on exterior material legend.
4. All mechanical equipment shall be screened from public view.
5. Applicant shall add Tree Density Unit Table to the landscape plan.
6. Applicant shall install shrubs along the Highway 70 frontage between the trees utilized for commercial streetscape Plate 23C modified.
7. The applicant shall show the required Landscape Plate 23D plantings on the landscape plan along the east property line.
8. The applicant shall install the required Landscape Plate 23D fence along the east property line, or they may meet with the residential neighbor to negotiate the fence to be installed along the east property line.
9. Irrigation and maintenance is required for all planting and residential buffer fencing on the landscape plan for the life of the project.
10. The applicant shall revise the Architectural Site Plan to show the exact location of the drive thru speaker and menu board. Staff recommends locating the apparatus along the north (rear) elevation midway between both the east and west residential neighbors.
11. The applicant shall install a sound buffer wall directly across from the drive thru speaker and menu board. Staff recommends either an actual six foot tall wall or an equivalent wall of landscape.
12. The applicant shall revise the dumpster enclosure to consist of brick to match the building elevation with composite gate panels painted sierra tan attached to a steel frame with steel drop pins.
13. The applicant shall revise the front yard setback shown on the Site Plan Notes from 60 feet to 40 feet.
14. The applicant must submit a form board survey to Code Enforcement detailing the building setbacks and landscape buffers from all property lines for building permit approval.
15. The owner/applicant shall identify all utilities on site by contacting Tennessee One Call at 811 before commencing any site work.
16. It is recommended that the owner/applicant attend the meeting in order to make decisions relative to any changes that may be suggested by the DRC.

Engineering Conditions:

General:

- 1) A Commercial Site Plan contract may be required and will be prepared by Engineering and submitted to the developer/engineer for review to cover the fees to be paid to the City of Bartlett.
- 2) Applicant/ Engineer shall provide a **digital set of drawing** files showing the sanitary sewer lines, drainage lines, lot lines and all improvements in AutoCAD

format to dhubbard@cityofbartlett.org and ecampbell@cityofbartlett.org for use in the preparation of the Water Design Plan. This plan will be coordinated with the site design engineer to resolve any conflicts.

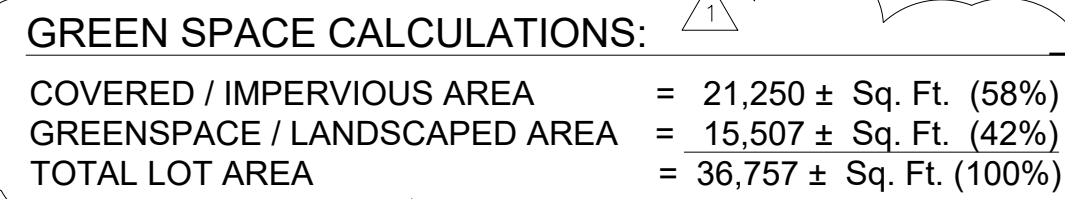
- 3) A SWPPP and a TDEC permit may be required and shall be submitted to TDEC and also to the City of Bartlett Engineering office.
- 4) All new utilities shall be underground.
- 5) Site survey or existing conditions plan shall be added to set.

Plans

- 6) A traffic impact and visibility study must be done to TDOT Chapter 2 standards.
- 7) A center turn lane as well as a right turn lane for the southwest traffic will need to be added to Summer Avenue to allow for full movement. This will require a widening of the pavement and restriping in order to accommodate these extra lanes. The extra lanes must be full depth pavement and be constructed along frontage of lot. A restriping plan will be required to show these changes in the roadway. The through lanes should be at least 11' wide, the turning lanes should be at least 10' wide, and a 2' shoulder must be added on the development side. Although sidewalk, curb, and gutter will not be required, the road widening must be built according to TDOT specifications.
- 8) This site is only allowed one driveway, which shall be located approximately in the middle of the site. Sight Distance shall be checked to meet the 565' vertical sight distance per TDOT standards.
- 9) The area for future ROW must be deeded to the state of Tennessee. A dedication plat will be required for the right of way. Alternatively a full plat may be submitted to make all changes on one document. The measurement from the centerline should be 57'
- 10) The utility poles currently located roadside must be moved back out of the future asphalt widening. These poles also contain City of Bartlett fiber, which will need to be relocated at the developer's expense.
- 11) The existing water services and fire hydrant, must be adjusted back further on the property and out of the proposed future ROW that is 57-feet from the centerline of Highway 70.
- 12) 2500 GPM commercial fire flow @ 20 psi residual pressure is required for this development. The city will conduct a flow test to determine existing fire flow. If the flow mentioned above is not available then a 12" water extension may be required.
- 13) There is an existing well pump house on-site that must be closed by a licensed well driller professional.
- 14) The existing drainage structure that will be in the future ROW must be moved further back on site and should serve to prevent water from the site from entering the roadway. No site water may pond on roadway.
- 15) Since this project is located in the Fletcher Creek Sewer Basin new tap approval is dependent on developer receiving written approval from the

City of Memphis for sewer connection. If no tap exists then the developers engineer shall work with City of Memphis on holding tank design and approval.

- 16) All work in the TDOT ROW will require permitting with TDOT, including, but not limited to, Traffic Control, Striping, Construction and other new road work.
- 17) Water Extensions for utility service may be required for this site. Crossings and work in TDOT ROW may be required and will have to be permitted accordingly.
- 18) A bond will be required from the city for the site and with the state for the work in TDOT ROW.

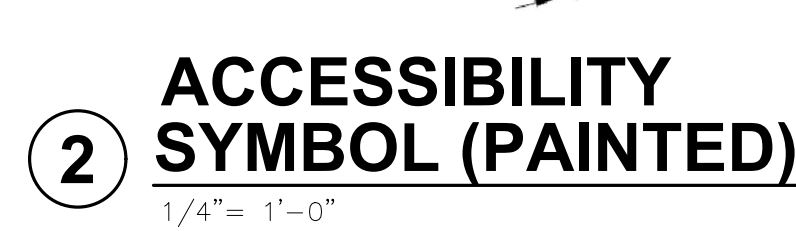


— — — — SS — — — —	SANITARY SEWER LINE
— — — — GW — — — —	SANITARY GREASE WASTE LINE
— — — — W — — — —	WATER SERVICE LINE
— — — — OHE — — — —	OVERHEAD ELECTRIC LINE
— — — — E — — — —	ELECTRIC SERVICE LINE
— — — — G — — — —	GAS SERVICE LINE

1	REMOTE COOLER/STORAGE UNIT – REF. SHEET A8
2	CANOPY SUPPORT COLUMNS (PTD. STL)
3	LANDSCAPE / GREENSPACE AREA – REF. LANDSCAPE PLANS
4	EXISTING FENCE (TO REMAIN)
5	ACCESSIBLE PARKING SIGN REF. 1/SA1
6	STL PIPE BOLLARD REF. 3/SA1.1
7	PARKING LOT LIGHT POLE, REF. ELECT. DRWGS.
8	GAS METER
9	EXIST'G. WATER METER (REUSE IF POSSIBLE) – REF. CIVIL DRWGS.

10	PAINTED PARKING LOT DIRECTIONAL ARROWS, STOP BARS, SIGNAGE & STRIPING
11	GREASE INTERCEPTOR (REF. PLUMBING & CIVIL PLANS FOR DETAILS)
12	TRASH DUMPER & ENCLOSURE - REF. D.T.S. SHT. SA-1
13	CONC. PAD FOR ELECTRICAL TRANSFORMER WITH UNDERGROUND ELECT. SERVICE TO BLDG. REFERENCE ELECT. DRWS. & COORDINATE RE- WITH ELECT. UTILITY COMPANY
14	BIKE RACK - REF. CIVIL DRWS.
15	CONC. WALK / PATIO - REF. CIVIL DRWS.
16	EXISTING CURB & GUTTER (TO REMAIN)
17	NEW CONC. CURB & GUTTER - REF. CIVIL DRWS.

- 18 ASPHALT PAVING, TYP. - REF. CIVIL DRWS.
- 19 ACCESSIBLE RAMP (REF. CIVIL PLANS)
- 20 MONUMENT SIGN - REF. DTL. E/SAT.1
- 21 EXIST'G. POWER POLE / OVERHEAD ELECT. LINES - TO REMAIN
- 22 RETAINING WALL (HT VARIES 6"-14"), REF. CIVIL DRWS. FOR DTL. & ADDITIONAL INFO
- 23 CONC. PAVING - REF. CIVIL DRWS.
- 24 MENU BOARD (MTD. TO FACE OF CANOPY COLUMN)
NOTE: "7 BREW" DOES NOT HAVE AN ORDER BOARD/SPEAKER SYSTEM. MENU BD. CANOPY OR CLEARANCE BAR, EMPLOYEES TAKE & RETURN ORDERS TO CUSTOMERS AT THEIR VEHICLE IN THE DRIVE-THRU LANES
- 1



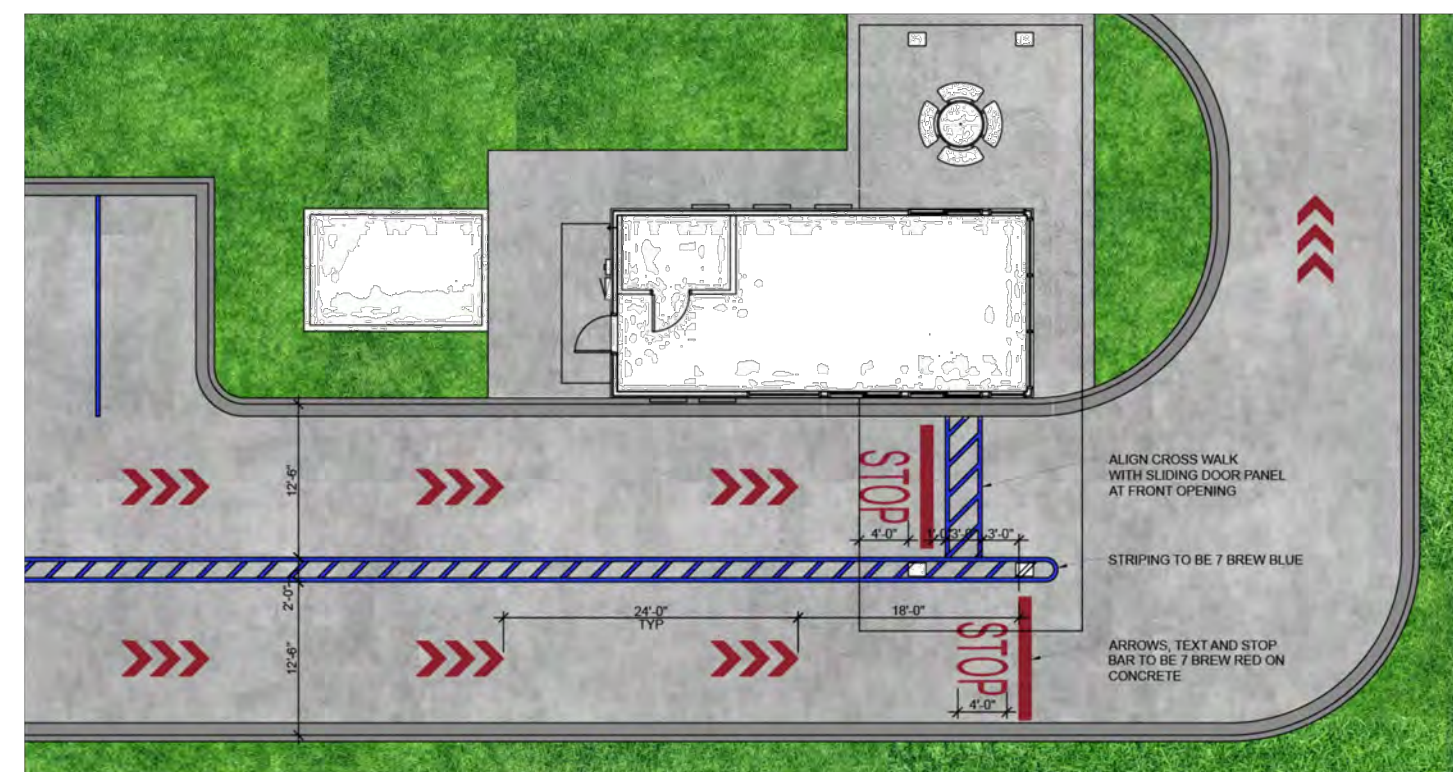
CODE SUMMARY	
BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE
PLUMBING CODE:	2021 INTERNATIONAL PLUMBING CODE
MECH. CODE:	2021 INTERNATIONAL MECHANICAL CODE
ELECT. CODE:	2017 NATIONAL ELECTRICAL CODE
FUEL CODE:	2021 INTERNATIONAL FUEL GAS CODE
FIRE CODE:	2021 INTERNATIONAL FIRE CODE
ADA:	2017 ICC A117.1 ACCESSIBILITY CODE
BUILDING SUMMARY	
NUMBER OF STORIES:	1
BUILDING HEIGHT:	20'-0"
BUILDING AREA:	514 SQ. FT. (bldg.)
	246 SQ. FT. (walk-in)
BUILDING TYPE:	VB
USE GROUP:	B
OCCUPANT LOAD:	4
SPRINKLER SYSTEM:	NO
EMERGENCY LIGHTING:	YES
NUMBER OF EXITS REQUIRED:	1
NUMBER OF EXITS PROVIDED:	1
MAXIMUM TRAVEL DISTANCE:	200'-0"
ZONING:	CG-MS

Site Striping

Asphalt paving surfaces shall have blue striping with the remaining traffic symbols / text to be white. Reference example below and parking lot paint color chart.



Concrete paving surfaces shall have blue striping with the remaining traffic symbols / text to be red. Reference example below and parking lot paint color chart.



Parking Lot Striping Colors & Paint

Asphalt Paint Colors:

White - Pantone 000C
Blue - Pantone 293

Concrete Paint Colors:

Red - Pantone 202
Blue - Pantone 293

PMS 000C

R: 255
G: 255
B: 255

HEX: f

PMS 293

R: 0
G: 61
B: 165

HEX: 003da!

PMS 202

R: 138
G: 36
B: 50

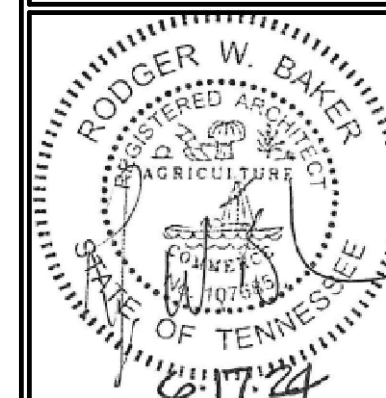
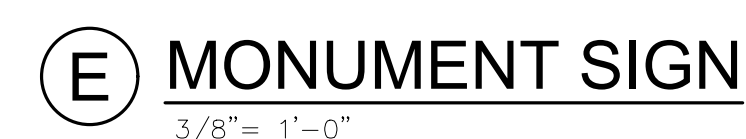
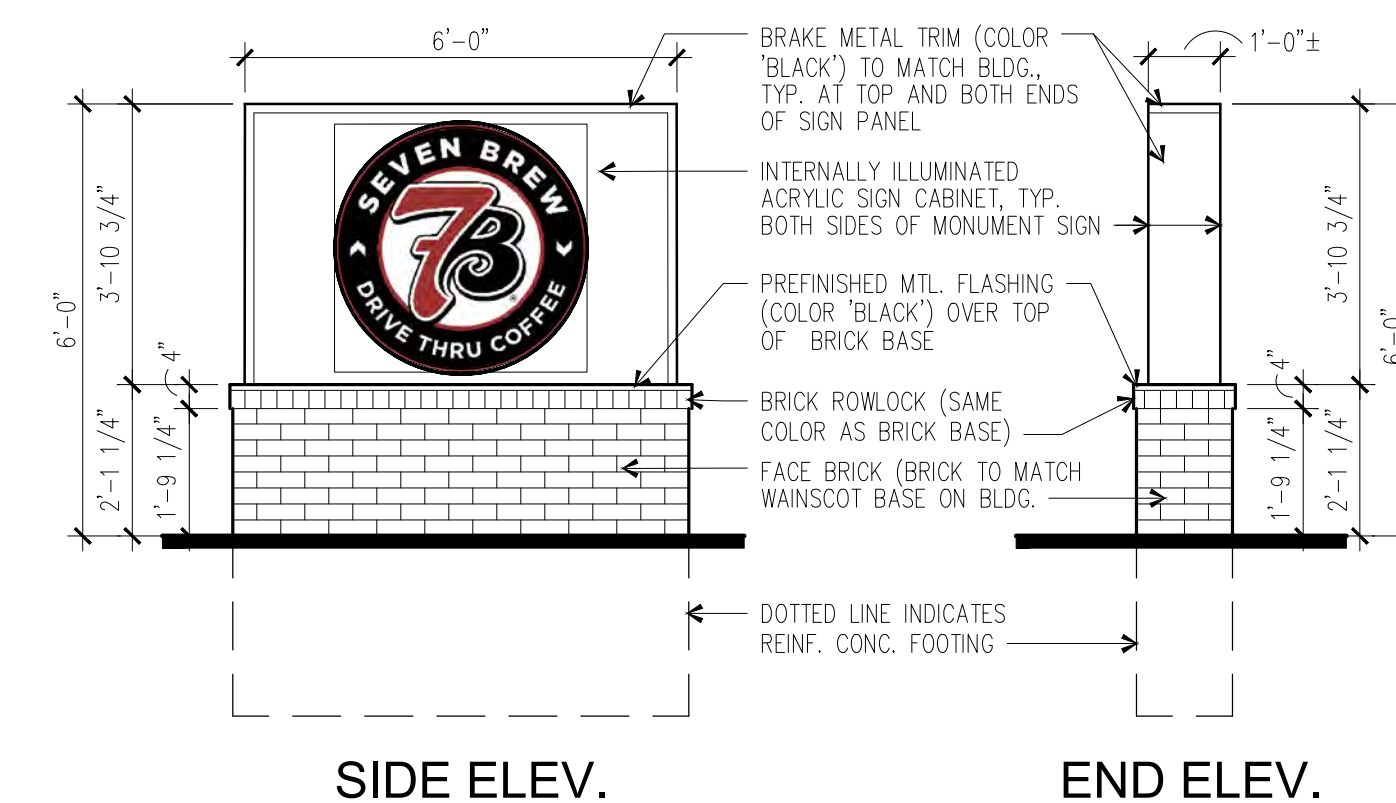
HEX: 8a2432

Traffic Paint Type:

Sherwin- Williams Pro Park, Setfast, Hotline
or an approved equal.

ADA SIDEWALK AND RAMP NOTES

1. THE CROSS SLOPE OF A SIDEWALK SHALL BE $2\frac{1}{4}$ (1/4" / PER 12") MAX. AND $1\frac{1}{8}$ (1/8" / PER 12") MIN. THE SLOPE CAN BE TOWARD THE PAVEMENT OR AWAY FROM THE PAVEMENT AS LONG AS POSITIVE DRAINAGE IS MAINTAINED.
2. CURB RAMPS SHALL HAVE A MIN. WIDTH OF 48 INCHES. THE CURB RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 1° (1" / PER 12")
3. A LANDING THE WIDTH (W) OF THE CURB RAMP AND FIVE FEET IN LENGTH SHALL BE CONSTRUCTED AT THE TOP OF CURB RAMPS. THE SLOPE OF THE LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION.
4. CARE SHALL BE TAKEN TO ENSURE A UNIFORM GRADE ON RAMPS, FREE OF SAGS AND SHORT GRADE CHANGES.
5. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREAS OF RAMPS.
6. SIDEWALKS THAT ARE PART OF A ADA ACCESSIBLE ROUTE AND ALL CURB AND ADA RAMPS SHALL BE CONSTRUCTED TO MEET ALL ADA REQUIREMENTS AND TOLERANCES.
7. SIDEWALKS ABUTTING ASPHALT SHALL HAVE A THICKENED EDGE.
8. PROVIDE CONTROL JOINTS AT INTERVALS EQUAL TO CONCRETE SIDEWALK WIDTH, BUT IN NO CASE GREATER THAN 10'-0".
9. CONTROL JOINTS MAY BE MADE WITH A GROOVING TOOL AT THE TIME OF FINISHING OR WITH A CONCRETE SAW AFTER CONCRETE HAS SUFFICIENTLY CURED.
10. CONTROL JOINTS SHALL BE 1" DEEP AND 1/4" WIDE.
11. PROVIDE EXPANSION JOINTS AT MAXIMUM OF 32'-0" INTERVALS AND AT EXISTING STRUCTURES OR CONCRETE.



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TRASH
ENCLOSURE

DATE
6-14-2024

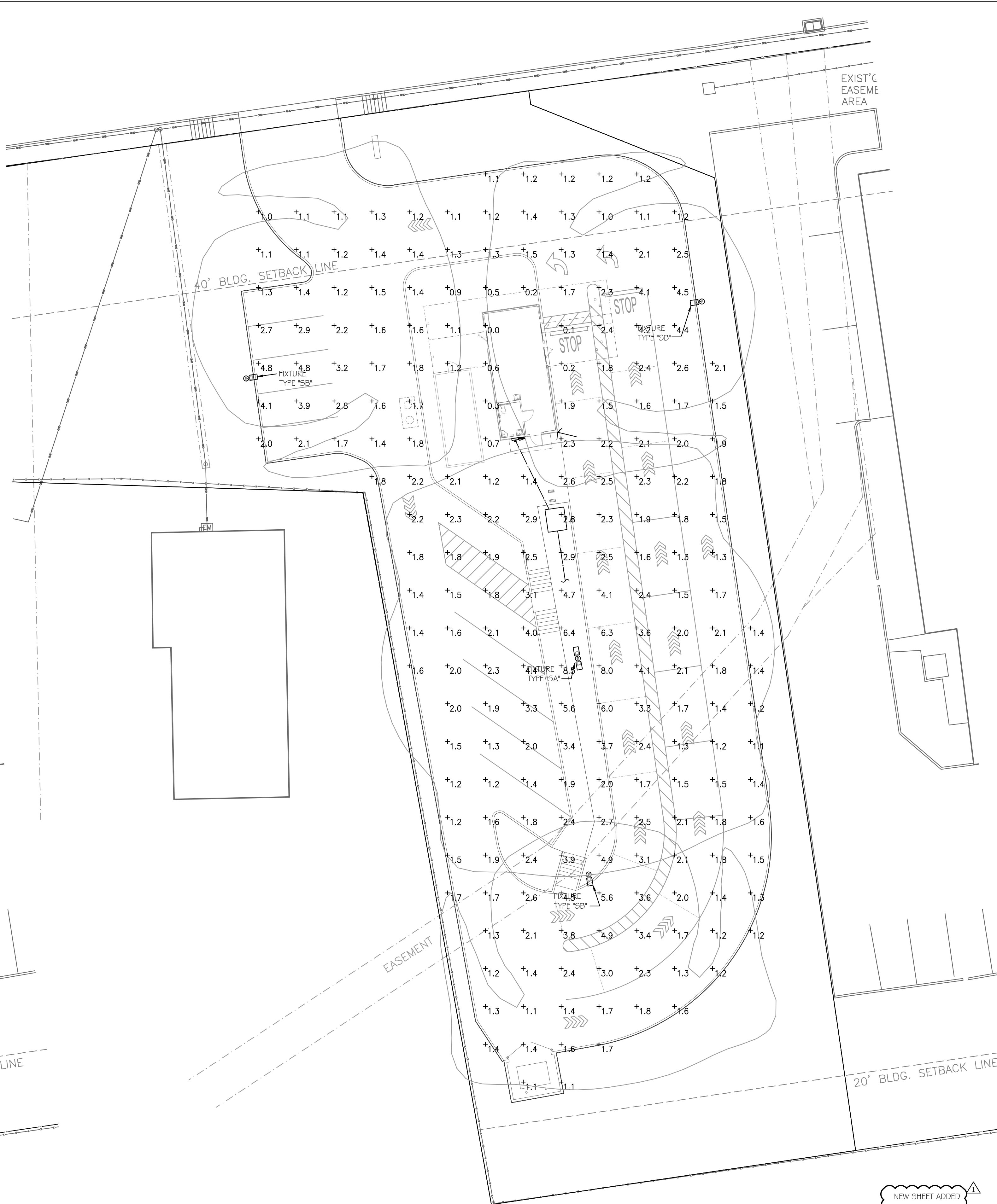
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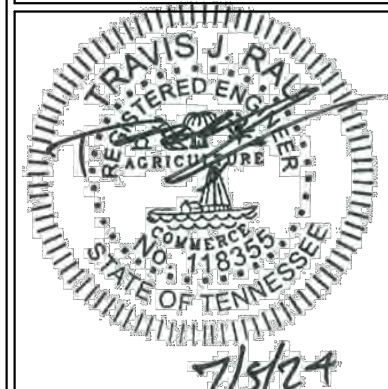
SA1.1



A ELECTRICAL SITE PLAN - PHOTOMETRTIC
SCALE: 1" = 16'-0"
0 2 4 8 16 32
FOOTCANDLES AT PROPERTY LINE WITH CANOPY LIGHTING

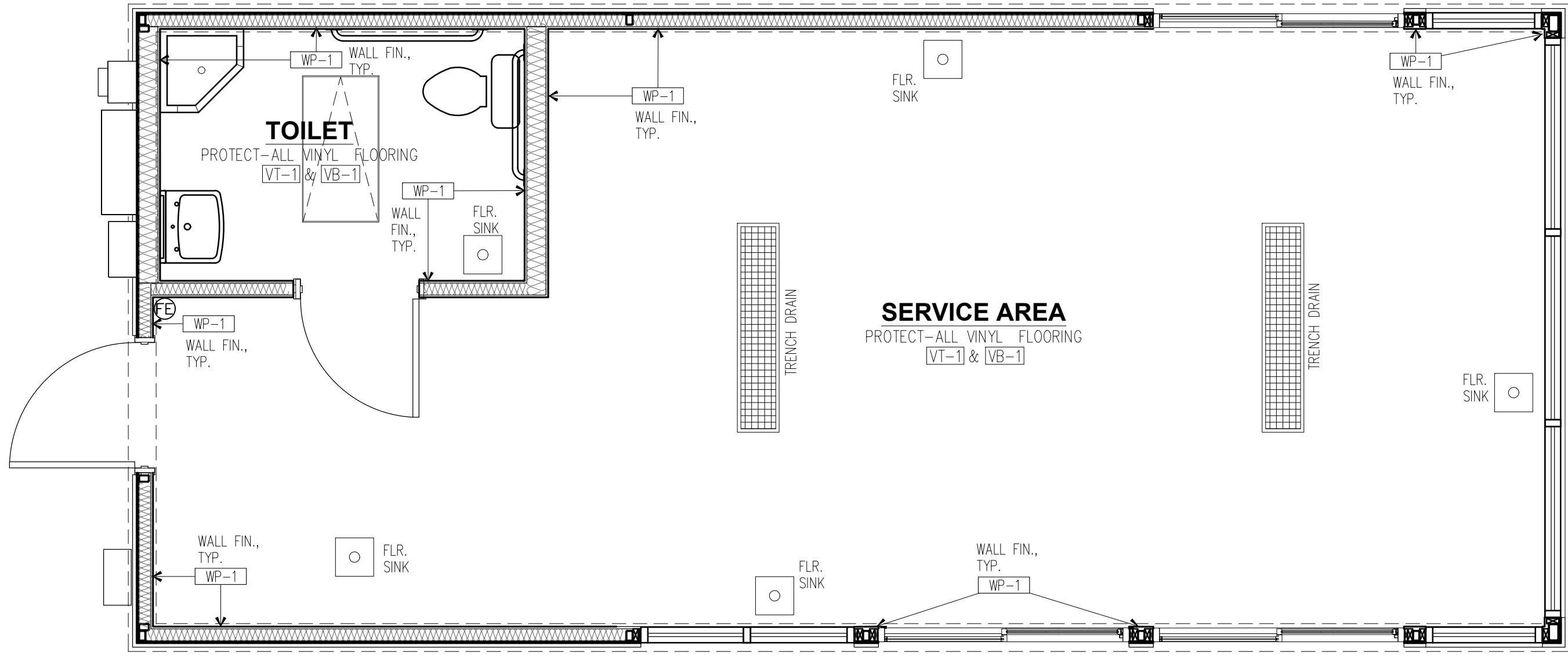


B ELECTRICAL SITE PLAN - PHOTOMETRTIC
SCALE: 1" = 16'-0"
0 2 4 8 16 32
DRIVEWAY & PARKING AREA ONLY



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DATE
6-14-2024
NEW SHEET ADDED 7-05-2024
DRAWN BY:
CHECKED BY:
SHEET NO.
SL1.1



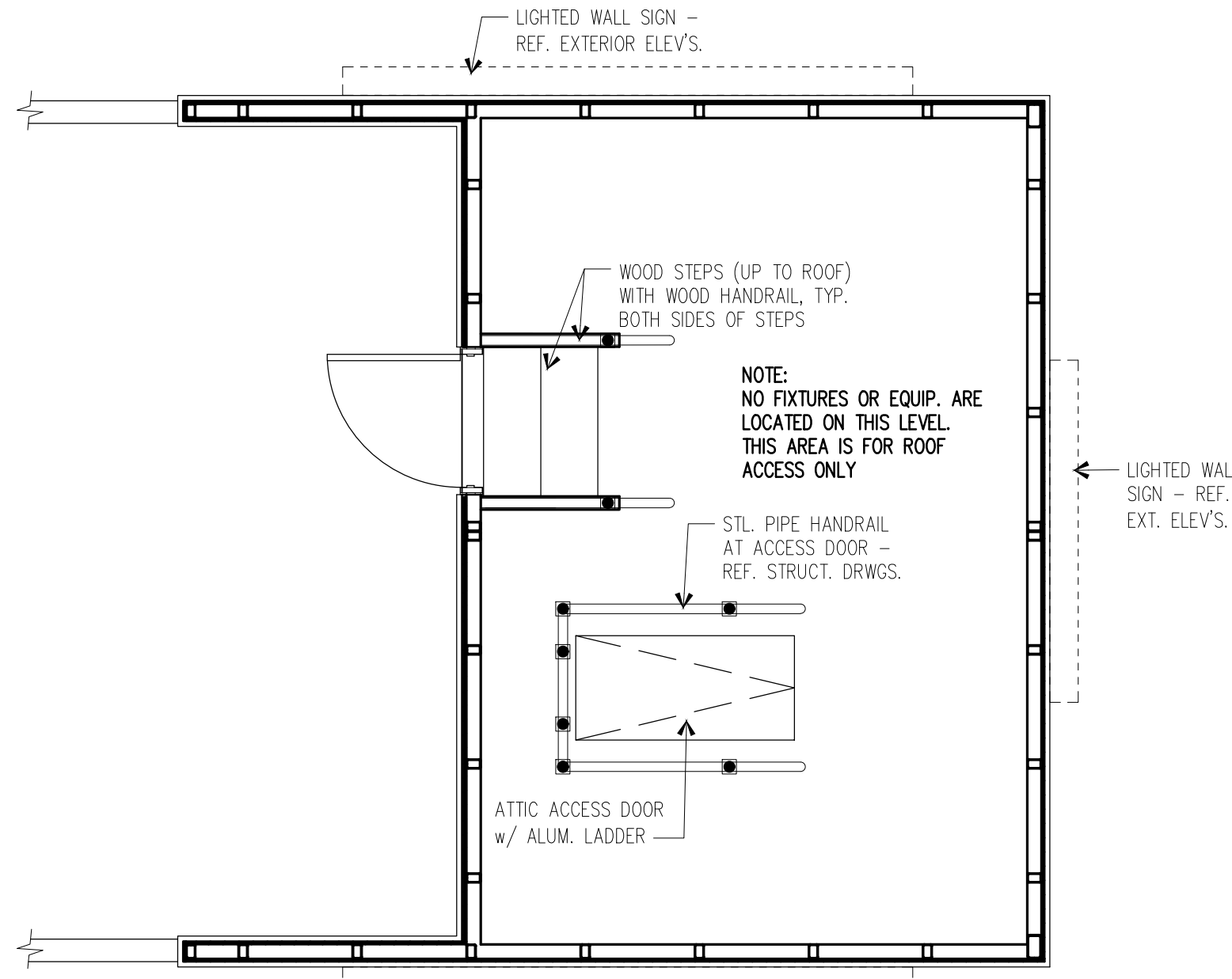
GROUND LEVEL

A FLOOR / WALL FINISHES PLAN
3/8" = 1'-0"

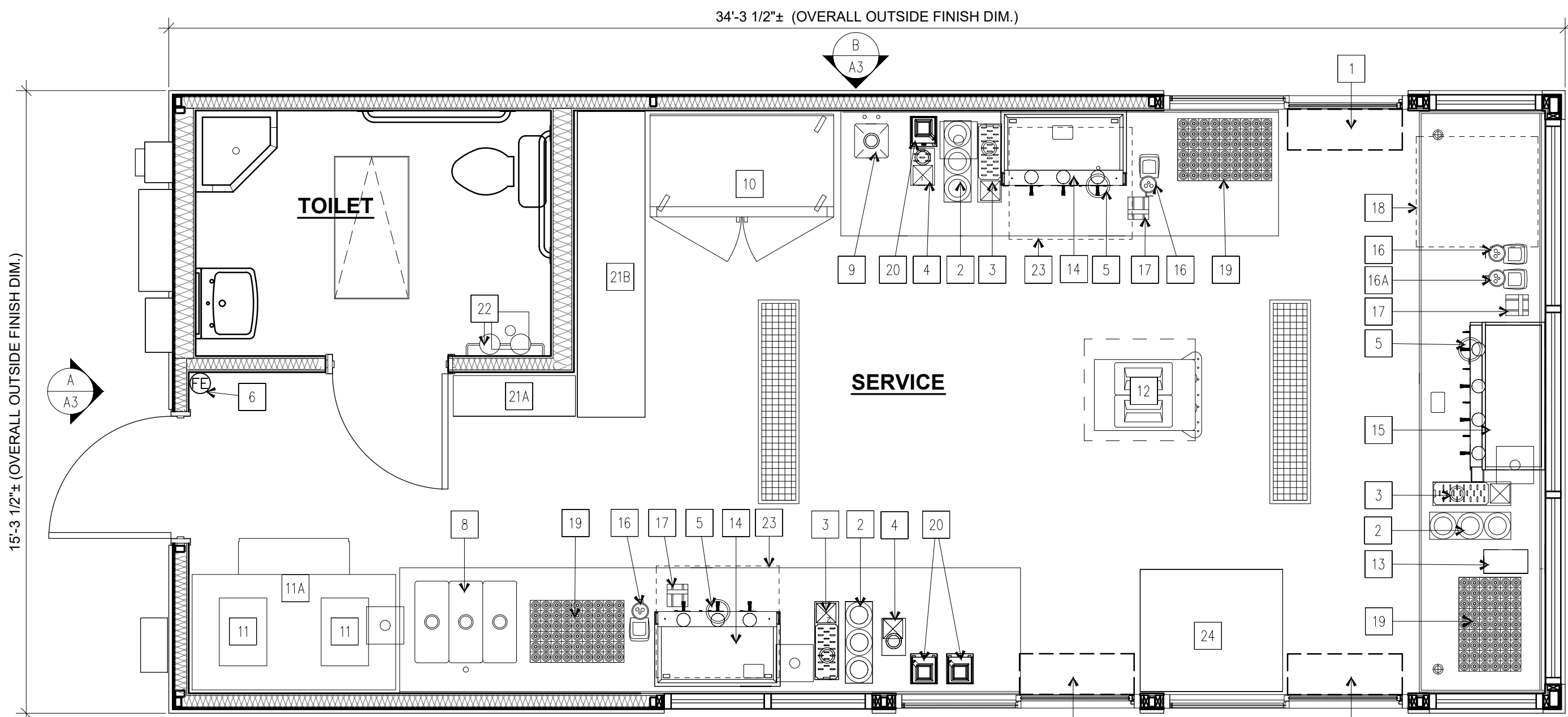


FLOOR FINISH GENERAL NOTES:

1. PROTECT-ALL VINYL FLOORING AND COVE BASE THROUGHOUT SERVICE AREA AND TOILET, TYP.
2. REF. FINISHES SCHEDULE SHEET A1.2 FOR ADDITIONAL INFORMATION



MEZZANINE LEVEL PLAN



GROUND LEVEL PLAN

B FIXTURE PLAN
3/8" = 1'-0"



GENERAL SCHEDULE NOTES:

THE ITEMS IDENTIFIED ON THE FINISH MATERIALS SCHEDULE AND THE EQUIPMENT AND FIXTURE SCHEDULE HAVE BEEN SELECTED AND APPROVED FOR USE ON 7 BREW COFFEE PROJECTS AS "STANDARDS". ITEMS SPECIFIED MAY OR MAY NOT ACTUALLY APPEAR ON THE DRAWINGS. THE DESCRIPTIONS ARE TO IDENTIFY THE PRODUCTS AND NOT TO DETERMINE THE INCLUSION OR USE OF ANY PARTICULAR ITEM.

EQUIPMENT PLAN KEYNOTES

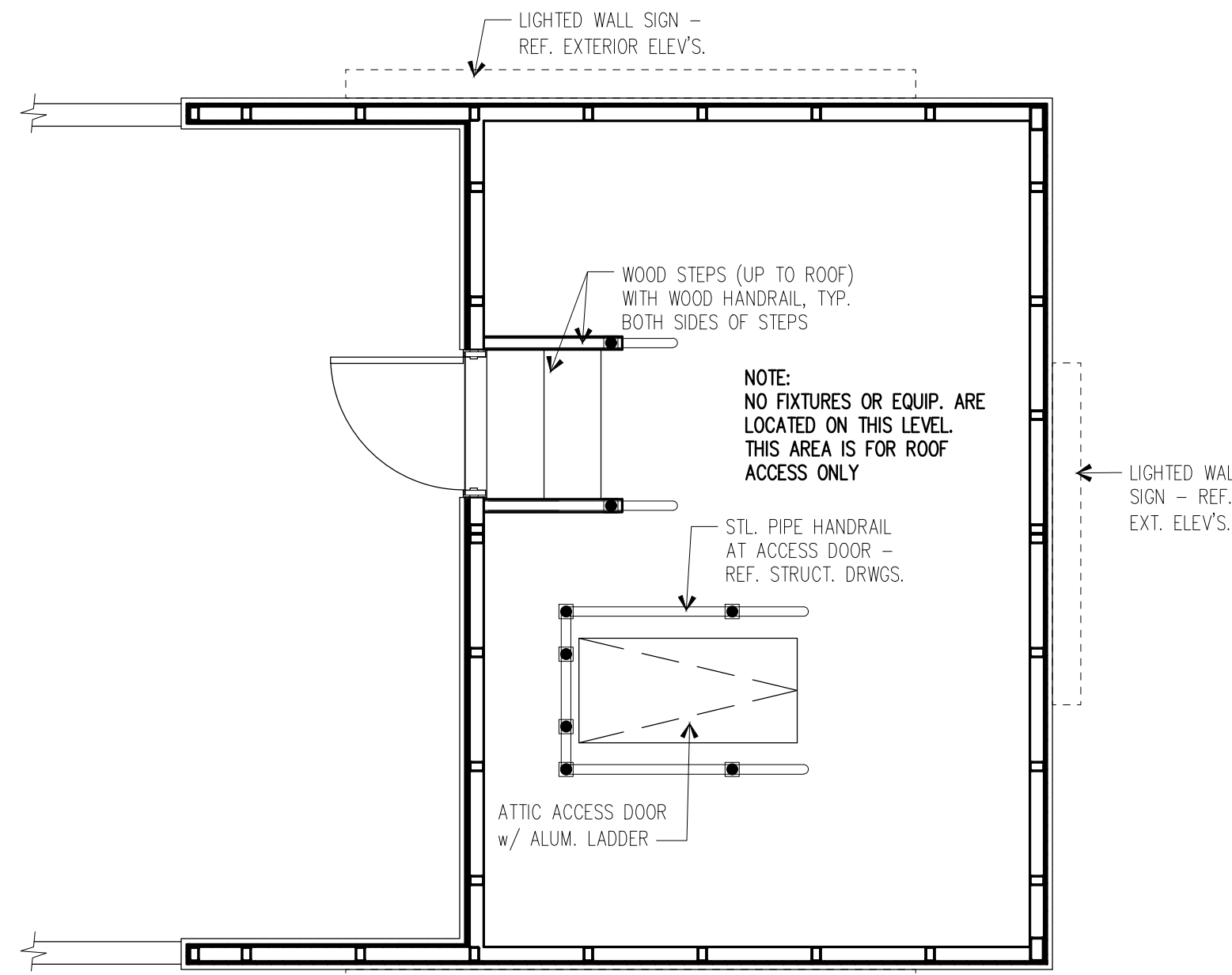
- | | | | |
|--------|--|--------|--|
| (c) 1 | AIR CURTAIN ABOVE SLIDING DOOR TYP.
REF. ELECTRICAL SHEETS | 13 | BUNN WATER HEATER H5X
P/N 43600-0026 |
| 2 | ELEVATED CUP DISPENSER -
NOTE: DRAIN LINES FOR EQUIPMENT ON
EITHER SIDE OF CUP DISP. ARE NOT TO
CROSS CUP DISPENSER. HOLD LINES
AS TIGHT AS POSSIBLE TO WALL | 14 | LA MARZOCCO ESPRESSO MACHINE
MODEL LINEA PB (AV)-3 |
| (a) 3 | BLEND-TECH RAPID RINSER | 15 | LA MARZOCCO ESPRESSO MACHINE
MODEL LINEA PB (AV)-4 |
| 4 | BUILT-IN CUP RINSE | 16 | MAZZER COFFEE BEAN GRINDER -
MODEL ROBUR S NERO |
| 5 | 1&5 BRASS RINSE WELL w/ STEM -
B-2282-01-F05 | 16A | MAZZER DECAF COFFEE BEAN GRINDER -
MODEL SUPER JOLLY PRO V (E) NERO |
| (b) 6 | NEW MULTIPURPOSE DRY CHEMICAL
(2A:10BC) FIRE EXTINGUISHER (PER NFPA 10) | 17 | BUILT-IN KNOCK BOX |
| 7 | NOT USED | (a) 18 | TRAILSON UNDERCOUNTER COOLER -
CULC-36R-GD 36" |
| 8 | CUSTOM STAINLESS STEEL 3-COMPARTMENT
SINK - RE: PLUMBING DRAWINGS | 19 | SYRUP RACK |
| 9 | STAINLESS STL. HANDSINK -
REF. PLUMB. DRAWINGS | 20 | VITAMIX BLENDER MOD. 036021-1355 |
| (a) 10 | 2 DOOR REACH-IN COOLER -
ATOSA MFC8723GR 54" | (a) 21 | STORAGE RACK:
A - SS 12"x 36"x 36"
B - SS 18"x 90"x 80" |
| (d) 11 | MANITOWOC ICE MAKER HEADS IYF 1800 C | 22 | WATER FILTERING & REVERSE OSMOSIS SYSTEM |
| 11A | MANITOWOC ICE MAKER BIN LB 1760 60" | (a) 23 | MOBILE ICE-BIN (UNDERCOUNTER) |
| 12 | SPACEMAN FREEZE MACHINE #6695-C | 24 | STAINLESS STL. WORK TABLE |

EQUIPMENT NOTES:

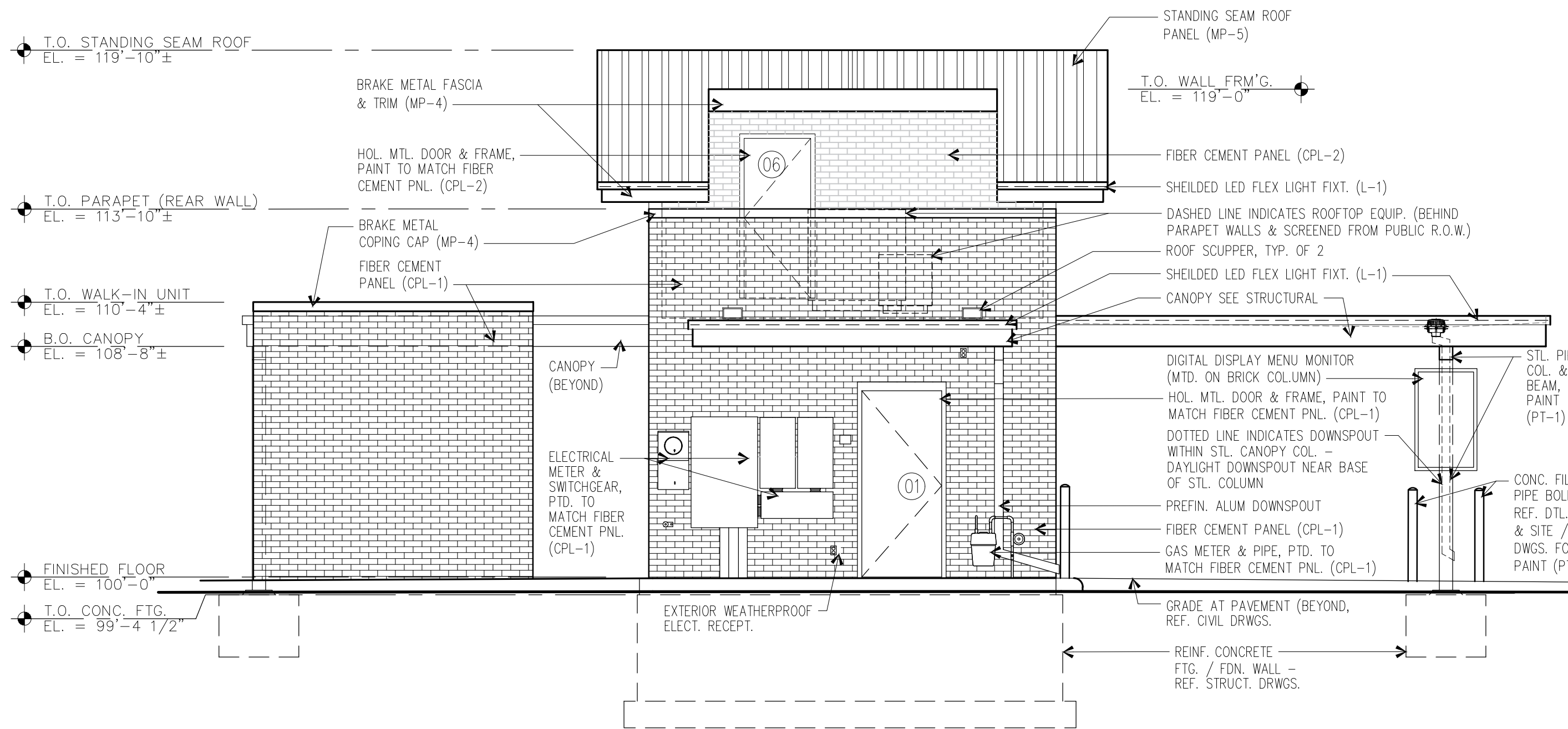
- a. EQUIP. MANUFACTURER IS OPTIONAL BUT MUST BE EQUAL APPROVED BY 7 BREW, U.N.O.
- b. PROVIDED & INSTALLED ON SITE BY SITE GEN. CONTRACTOR
- c. UNIT TO BE FURNISHED & INSTALLED BY NATIONAL MODULAR (MODULAR BLDG. MANUF.)
- d. REMOTE CONDENSER - IF 1800C

EQUIPMENT GENERAL NOTES:

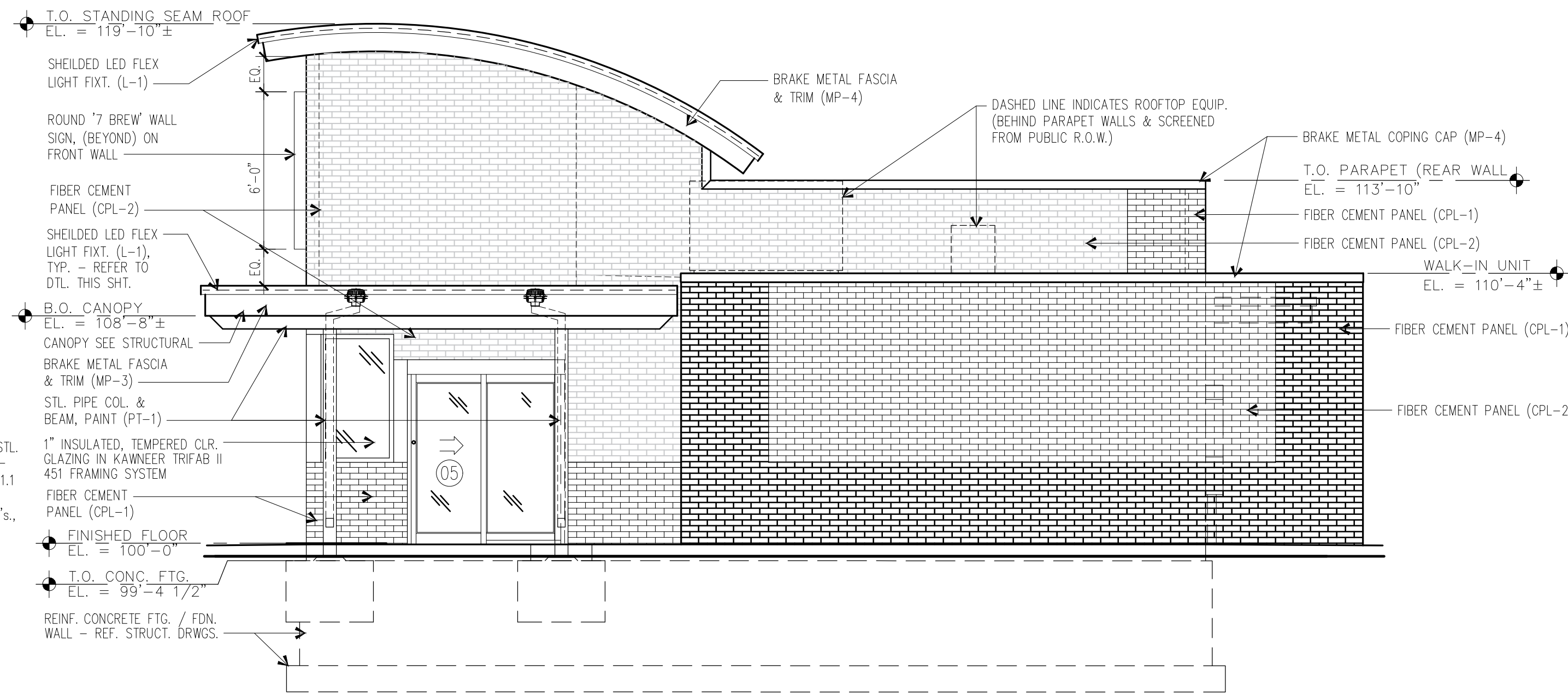
1. ALL EQUIPMENT TO BE INSTALLED BY A LICENSED INSTALLER AND TO THE MANUFACTURER'S SPECIFICATIONS.



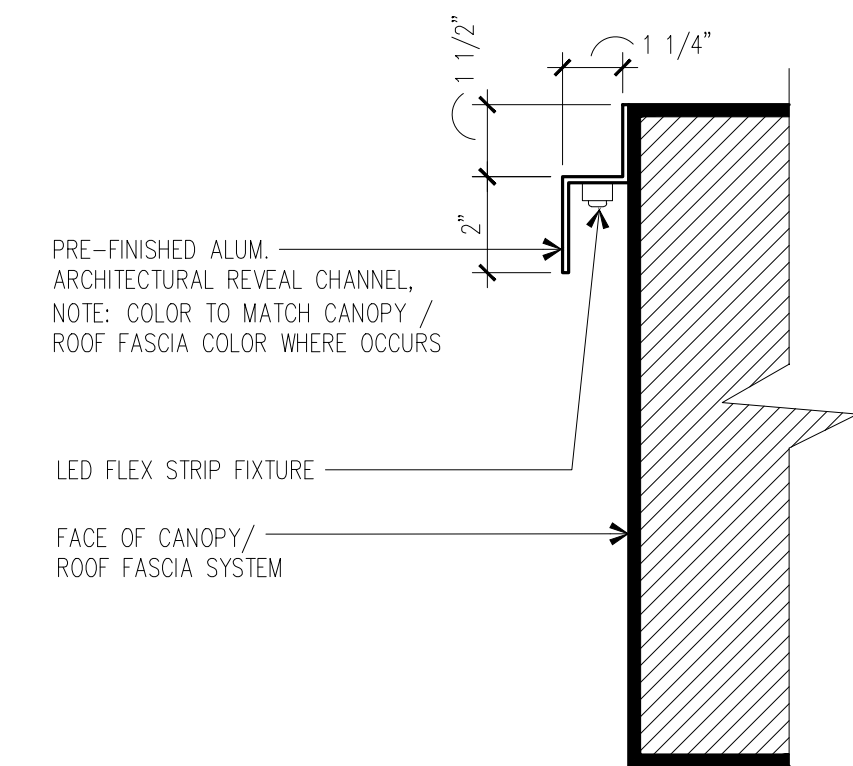
MEZZANINE LEVEL PLAN



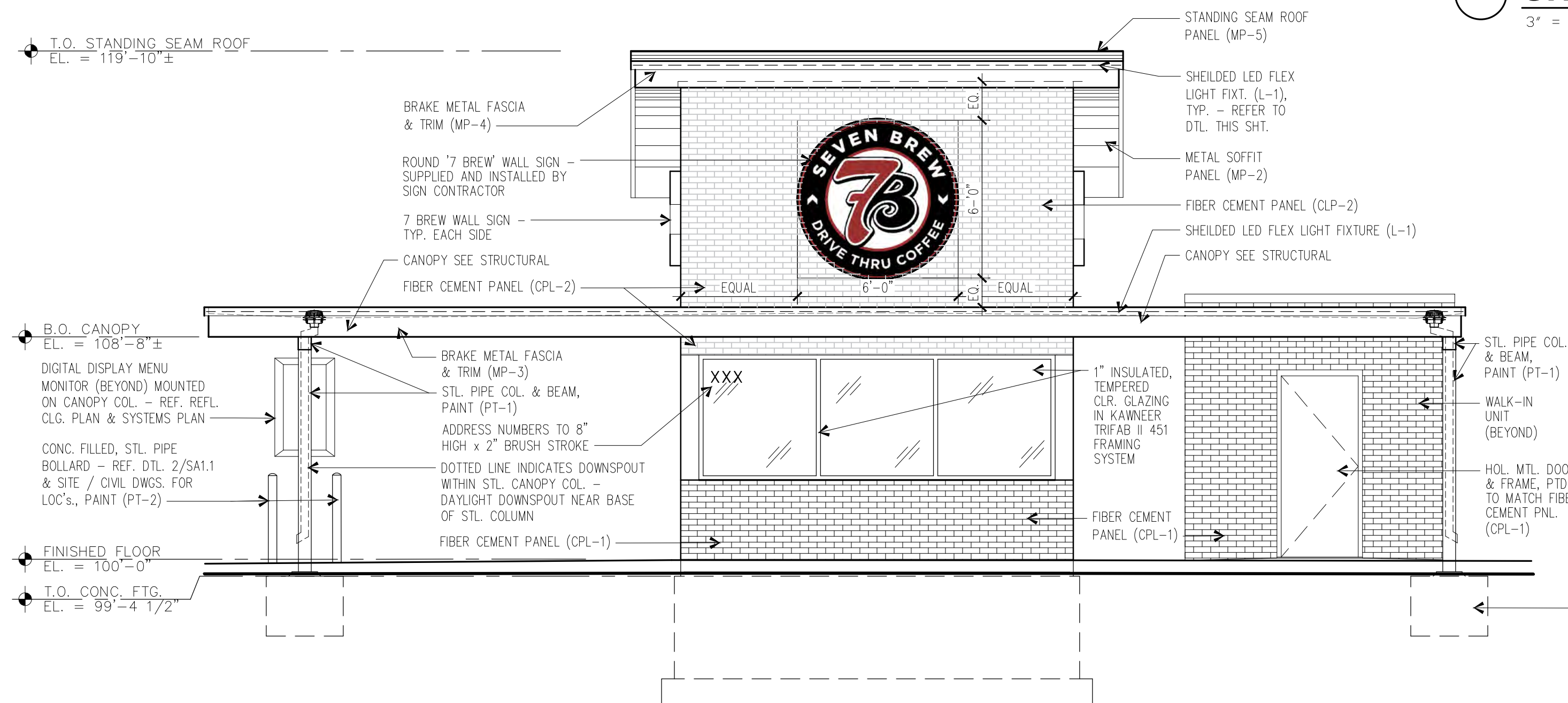
A SOUTH ELEVATION
1/4" = 1'-0"



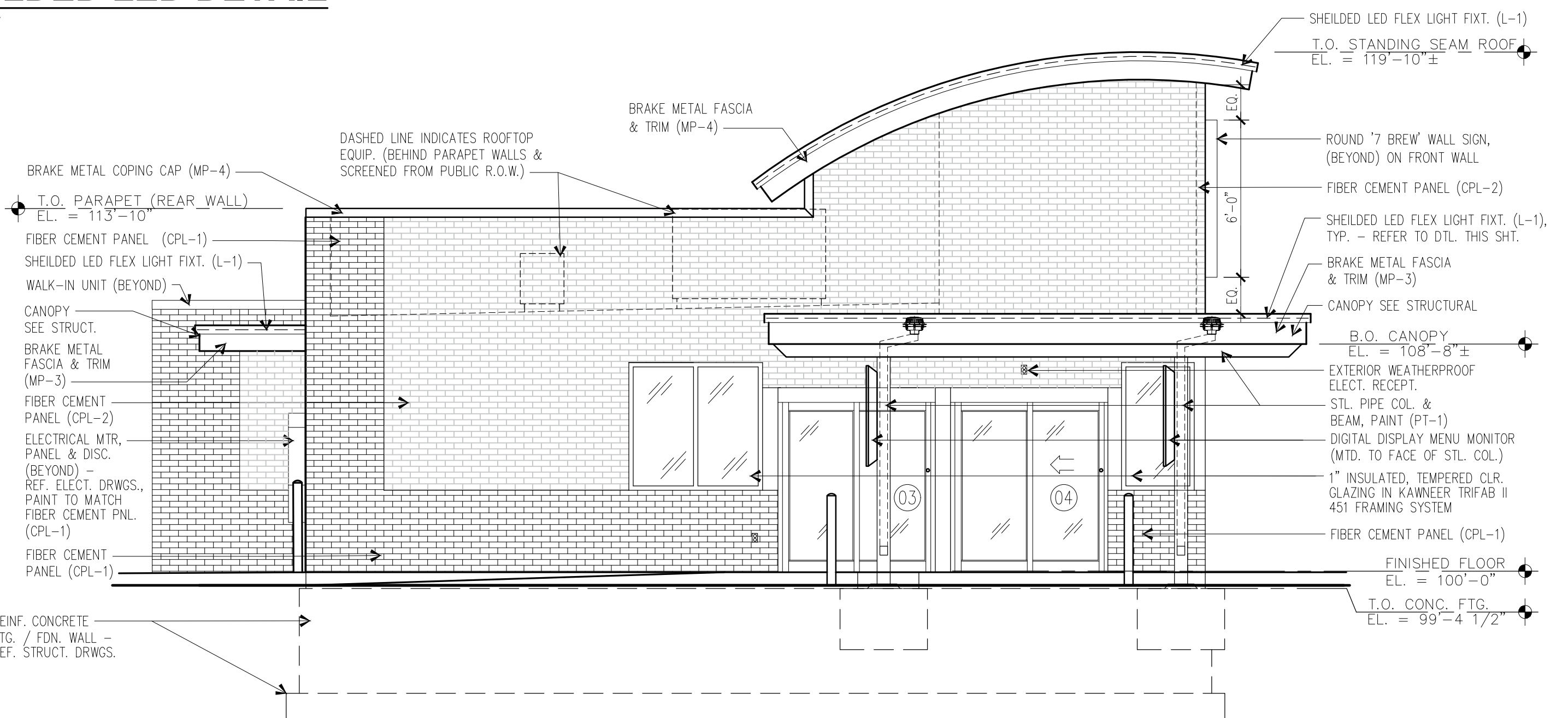
B WEST ELEVATION
1/4" = 1'-0"



SHEIDED LED DETAIL
3" = 1'-0"

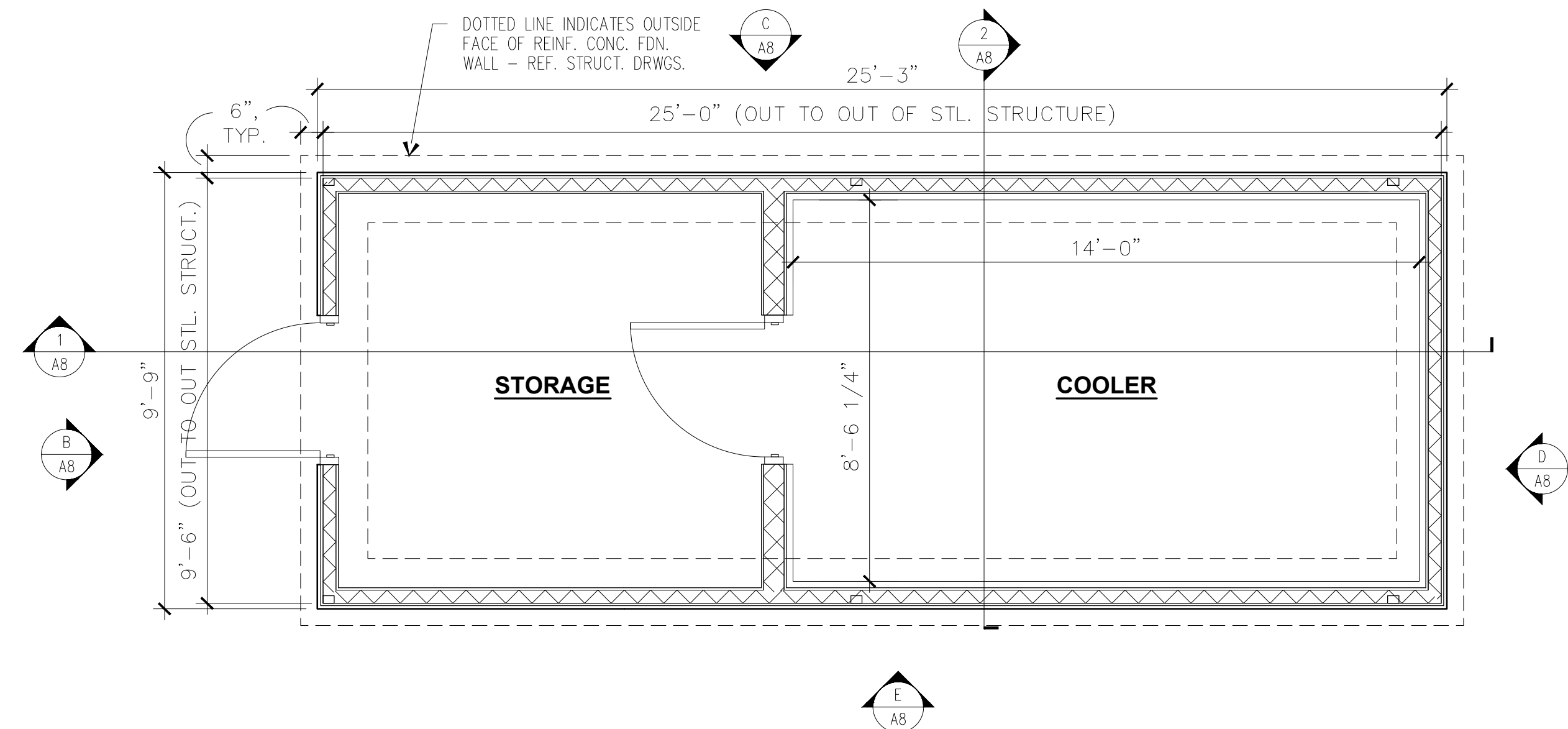


C NORTH ELEVATION
1/4" = 1'-0"

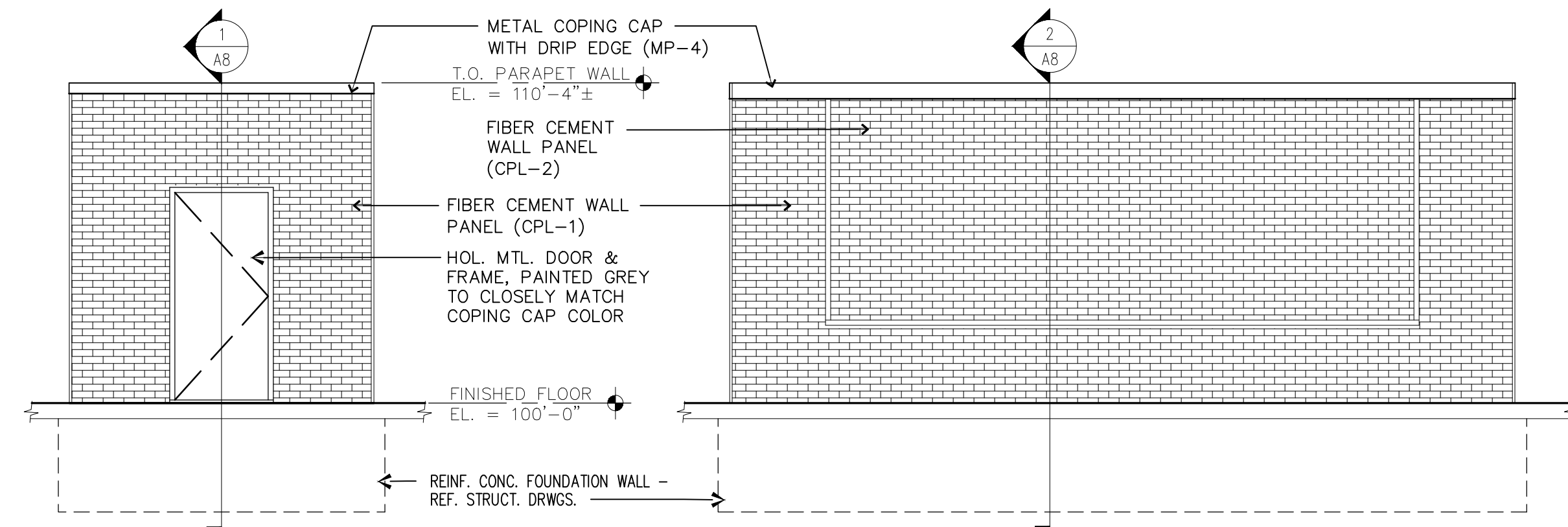


D EAST ELEVATION
1/4" = 1'-0"

GENERAL NOTES:
SIGNS SHOWN ON THESE ELEVATIONS ARE REPRESENTATIONAL AND ARE NOT TO BE USED AS OR CONSTRUED AS SHOP DRAWINGS FOR SIGN CONSTRUCTION. SIGN SHOP DRAWINGS ARE PRODUCED BY THE SIGN MANUFACTURER FOR REVIEW AND APPROVAL BY THE OWNER & BY THE CITY UNDER SEPARATE SIGNAGE PERMIT(S).

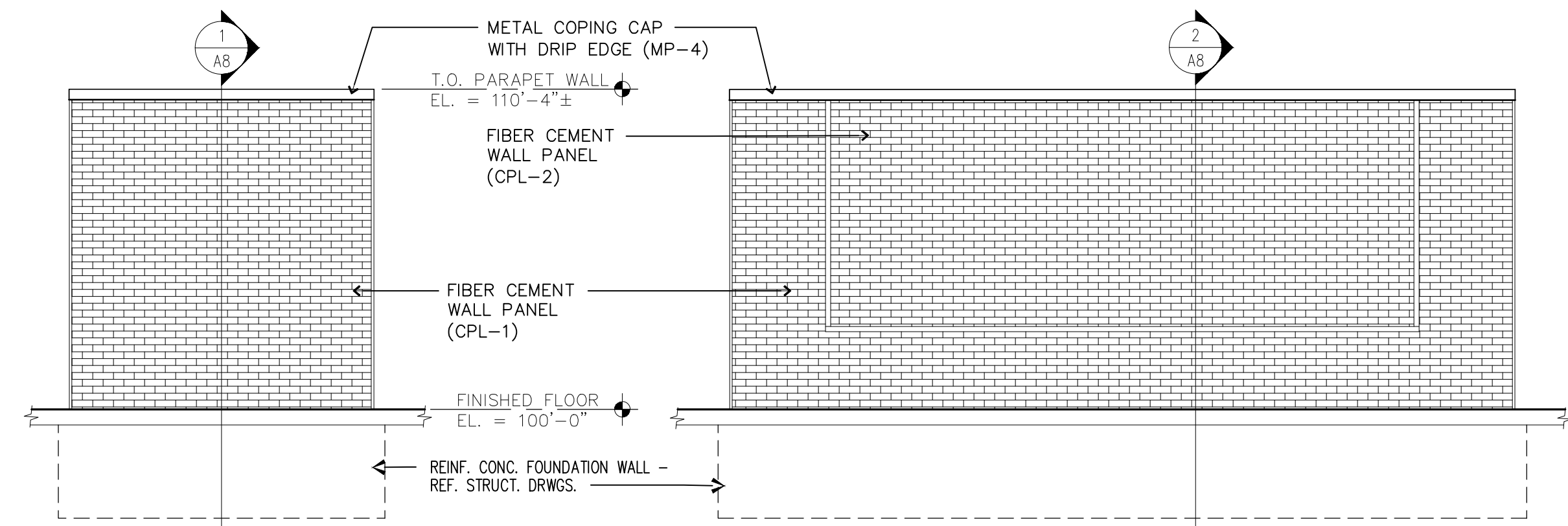


A COOLER FLOOR PLAN
3/8" = 1'-0"



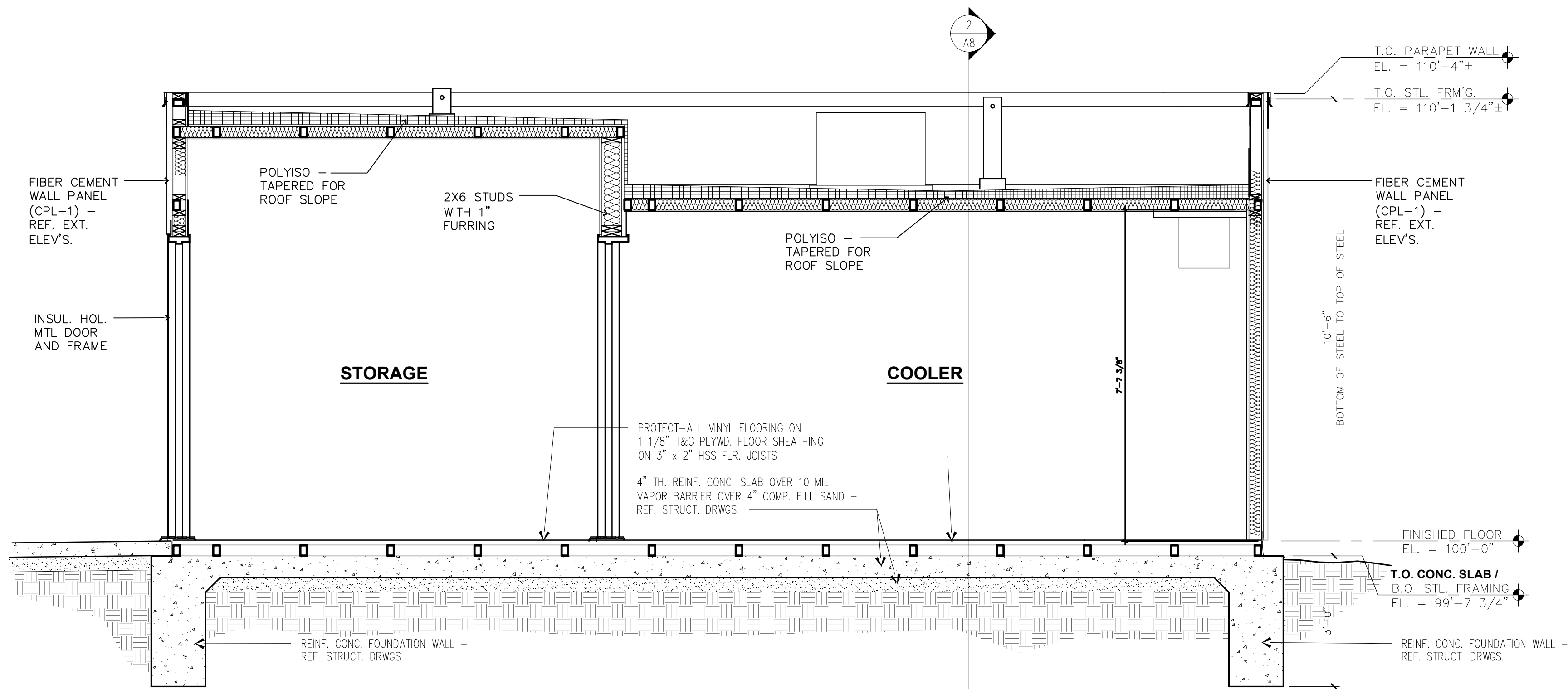
B NORTH ELEVATION
1/4" = 1'-0"

C EAST ELEVATION
1/4" = 1'-0"

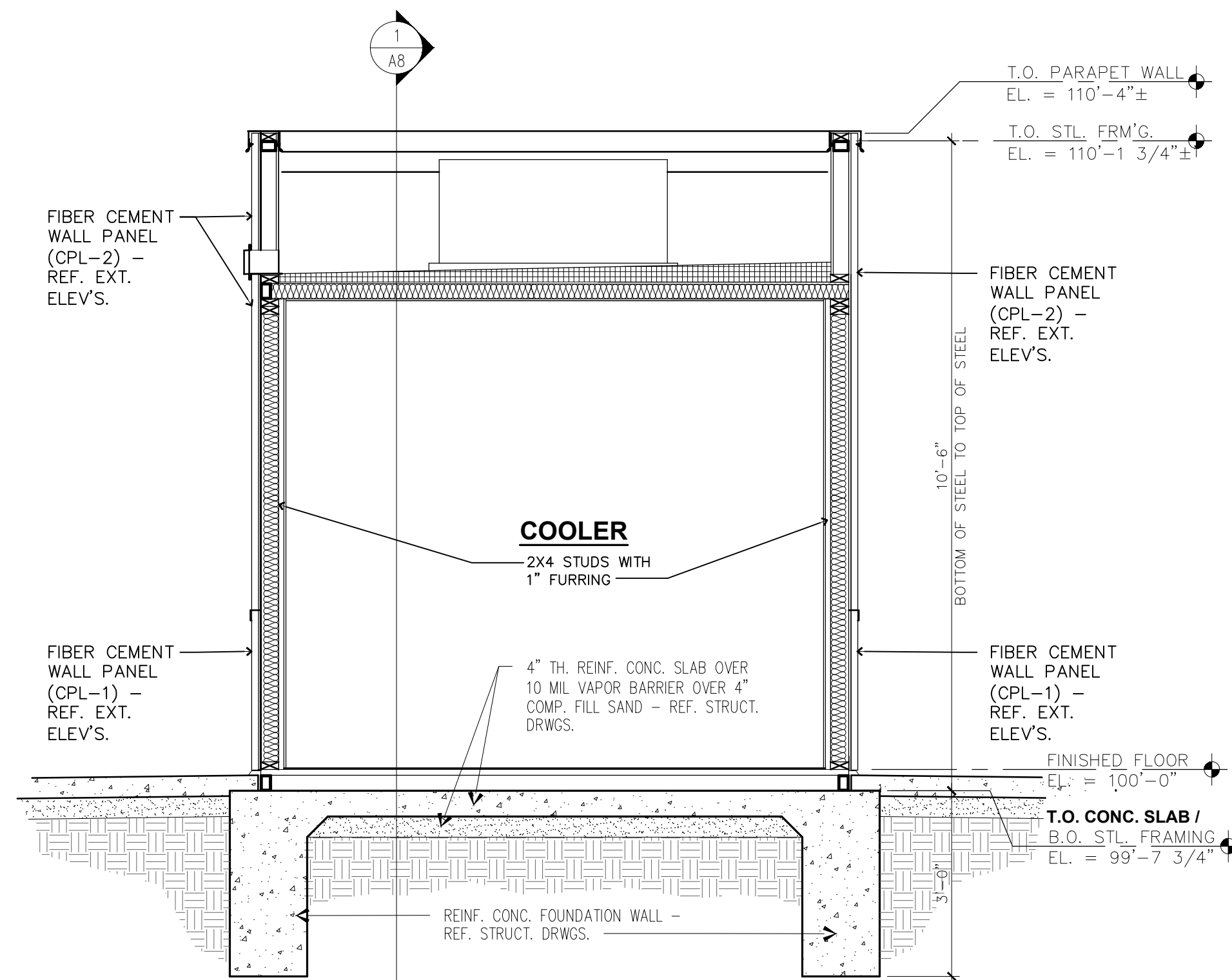


D SOUTH ELEVATION
1/4" = 1'-0"

E WEST ELEVATION
1/4" = 1'-0"



1 COOLER SECTION
1/2" = 1'-0"



2 COOLER SECTION
1/2" = 1'-0"

NEW RETAIL BUILDING

7418 HWY 70 BARTLETT, TN



BAY 1 – 1,500 S.F.

BAY 2 – 1,500 S.F.

BAY 3 – 1,500 S.F.

BAY 4 – 1,500 S.F.

TOTAL: 6,000 S.F.



JULY, 2024



NEW RETAIL BUILDING FOR

Retail Center

7418 Hwy 70

Bartlett, TN 38135

ABBREVIATIONS

AB	ANCHOR BOLT	JST	JOIST
ABV	ABOVE	JT	JOINT
A/C	AIR CONDITION	KO	KNOCKOUT
ACT	ACOUSTICAL CEILING TILE	LAM	LAMINATED
AFS	ABOVE FINISHED FLOOR	LAV	LAVATORY
AGG	AGGREGATE	LH	LEFT HAND
ALT	ALTERNATE	LP	LOW POINT
ALUM	ALUMINUM	LTL	LINTEL
ANOD	ANODIZED	MAS	MASONRY
AP	ACCESS PANEL	MAX	MAXIMUM
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MEZZ	MEZZANINE
AUTO	AUTOMATIC	MFRFG	MANUFACTURER
BD	BOARD	MIN	MINIMUM
BET	BETWEEN	MISC	MISCELLANEOUS
BIT	BITUMINOUS	MO	MASONRY OPENING
BLDG	BUILDING	MR	MOISTURE RESISTANT
BLKG	BLOCKING	MTD	MOUNTED
BM(S)	BEAM(S)	MTL	METAL
BBOT	BOTTOM	N	NORTH
BNG	BEARING	NIC	NOT IN CONTRACT
BU	BUILT-UP	NO	NUMBER
CAB	CABINET	NOM	NOMINAL
CER	CERAMIC	NTS	NOT TO SCALE
CJ	CONTROL JOINT	OC	ON CENTER
CL	CENTER LINE	OD	OUTSIDE DIAMETER
CLG	CEILING	OF	OUTSIDE FACE
CLO	CLOSET	OFF	OFFICE
CLR	CLEAR	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPF	OPPOSITE
CLM	COLUMN	OSCI	OWNER SUPPLIED
CONC	CONCRETE	OSOI	OWNER SUPPLIED, OWNER INSTALLED
CONSTR	CONSTRUCTION	PC	PRECAST
CONT	CONTINUOUS	PERF	PERFORATED
CPT	CARPET	PERIM	PERIMETER
CT	CERAMIC TILE	PL	PLATE
CTR	CENTER	PLAS	PLASTIC
CUB	CUBIC	FLEB	FLUOR
DET	DETAIL	FLAM	FLAME
DK(G)	DRINKING FOUNTAIN	FLYD	FLYWOOD
DM	DIMENSION	FLN	FLOOR
DOW	DOOR	FLNT	FLOOR
DR	DOWN	FLP	FLOOR
DS	DOWNSPOUT	FLR	FLOOR
DWG	DRAWING	FLR	FLOOR
E	EAST	FLR	FLOOR
EA	EACH	FLR	FLOOR
EU	EXPANSION JOINT	FLR	FLOOR
ELEC	ELECTRICAL	FLR	FLOOR
ELEV	ELEVATION	FLR	FLOOR
ENT	ENTRANCE	FLR	FLOOR
EQ	EQUAL	FLR	FLOOR
EQUIP	EQUIPMENT	FLR	FLOOR
EDF	ELECTRIC DRINKING FOUNTAIN	FLR	FLOOR
EX	EXISTING	FLR	FLOOR
EXP	EXPANSION	FLR	FLOOR
EXT	EXTERIOR EXTINGUISHER	FLR	FLOOR
EW	EACH WAY	FLR	FLOOR
EW	ELECTRIC WALL HEATER	FLR	FLOOR
FC	FIRE CODE	FLR	FLOOR
FD	FLOOR DRAIN	FLR	FLOOR
FDN	FOUNDATION	FLR	FLOOR
FDC	FIRE DEPARTMENT CONNECTION	FLR	FLOOR
FE(C)	FIRE EXTINGUISHER (CABINET)	FLR	FLOOR
FIN	FINISH	FLR	FLOOR
FIXT	FIXTURE	FLR	FLOOR
FLASH(G)	FLASHING	FLR	FLOOR
FLR	FLOOR	FLR	FLOOR
FLUOR	FLUORESCENT	FLR	FLOOR
FOT	FACE OF MASONRY	FLR	FLOOR
FT	FEET	FLR	FLOOR
FTG	FOOTING	FLR	FLOOR
FB	FIRE BLANKET	FLR	FLOOR
FRP	FIBER REINFORCED PLASTIC	FLR	FLOOR
FHC	FIRE HOSE CABINET	FLR	FLOOR
FRT	FIRE RETARDANT TREATMENT	FLR	FLOOR
GA	GAUGE	FLR	FLOOR
GALV	GALVANIZED	FLR	FLOOR
GB	GYP/UM BOARD	FLR	FLOOR
GL	GLASS	FLR	FLOOR
GM	GALVANIZED METAL	FLR	FLOOR
GOVT	GOVERNMENT	FLR	FLOOR
GD	GRADE	FLR	FLOOR
GRT	GROUT	FLR	FLOOR
GRTG	GRATING	FLR	FLOOR
GYP	GYP/UM	FLR	FLOOR
HC	HOLLOW CORE	FLR	FLOOR
HQWH	HARDWARE	FLR	FLOOR
HM	HOLLOW METAL	FLR	FLOOR
INDCP	HANDICAP	FLR	FLOOR
HORIZ	HORIZONTAL	FLR	FLOOR
HP	HIGH POINT	FLR	FLOOR
HTG	HEIGHT	FLR	FLOOR
ID	INSIDE DIAMETER	FLR	FLOOR
IF	INSIDE FACE	FLR	FLOOR
IN	INCHES	FLR	FLOOR
INSUL	INSULATION	FLR	FLOOR

LEGEND OF SYMBOLS

	NORTH ARROW
	DRAWING TITLE
	ELEVATION
	BUILDING OR WALL SECTION
	DETAIL REFERENCE
	ROOM NAME & NUMBER
	DOOR REFERENCE
	WINDOW REFERENCE
	ELEVATION MARK
	GRID REFERENCE
	MATCHLINE

PROJECT INFORMATION

PROJECT DESCRIPTION: Business space made available for rent (white box) in an existing facility. Adjacent tenant spaces are I-Hour rated

APPLICABLE CODES:

2021 International Building Code
2021 International Energy Conservation Code
2021 International Mechanical Code
2021 International Fuel Gas Code
2021 International Plumbing Code
2020 National Electric Code
2010 ADA Standards for Accessible Design
ANSI ICC 117.1 (Current version)

BUILDING INFORMATION

OCCUPANCY TYPE	BUSINESS
CONSTRUCTION TYPE	VB, SPRINKLERED
TOTAL BUILDING AREA	6,566 S.F.
Tenant Space	1,527 S.F.
BUILDING HEIGHT	16'-0"
NUMBER OF FLOORS	1 (one)
AUTOMATIC FIRE SPRINKLER	YES

GENERAL NOTES

1. Verify conditions, dimensions and elevations of site and services.
2. All Dimensions and conditions tying into or governed by existing construction are approximate and are not guaranteed to be correct. All such dimensions and conditions shall be field verified by the general contractor prior to the preparation of shop drawings and before proceeding with any work. The first submittal of shop drawings must contain correct conditions and dimensions obtained from the field. If conditions and dimensions vary greatly from those shown, the contractor shall notify the architect before preparation of shop drawings or before proceeding with work. Where dimensions are shown, use dimensions, do not scale. Where dimensions are shown, use exact dimensions - Dimensions with + indication only are adjustable to suit field conditions.
3. Contractor shall coordinate and obtain all necessary permits and approvals or guidelines from governing regulatory agencies before proceeding with any items of work under or within such jurisdictions.
4. All work shall conform to the requirements of the 2021 International Building Code. And all federal, state and city laws, codes and regulations as each may apply.
5. General notes and typical details shall apply to all parts of the project except where they conflict with specific notes and details where conditions are not specifically indicated, but are of similar character to details shown, similar details shall be used. Subject to the review of the architect.
6. Omissions or conflicts between the various elements of the working drawings and/or specifications shall be brought to the attention of the architect prior to the stage of such work.
7. The contractor shall be responsible for coordinating the schedule and work of all trades and shall check all dimensions, all discrepancies shall be called to the attention of the architect and shall be resolved prior to proceeding with the work.
8. To establish the complete scope of its work and to affect close coordination with the other trades, each trade shall completely review the plans and specifications, not only for its respective trade but for the work of all other trades as well. Titles of divisions (and sections in specifications) are provided merely for convenience and shall not be taken as an absolute segregation of the units of material and labor.
9. The contract drawings and specifications represent the finished structure and do not indicate the method of construction. The contractor shall supervise and direct the work and shall be solely responsible for construction means and methods. Sequences and procedures including, but not limited to, bracing and shoring.
10. The contractor agrees that in accordance with generally accepted construction practices the contractor shall assume sole and complete responsibility for the job site conditions during the course of construction including the safety of all persons and property and that this requirement shall apply continuously and not be limited to normal working hours.
11. All work shall be performed in a thoroughly first class and workmanlike manner in conformity with the plans and specifications and shall be in good usable condition at the completion of the project.
12. Coordinate floor and wall openings with all trades involved. Provide steel frames, sleeves, lintels, and similar enclosures required around penetrations in masonry or concrete walls or floors. Fire seal penetrations through fire resistive rated construction.

INDEX OF DRAWINGS

COVER

CIVIL	
SHT 1 OF 7	CIVIL COVER SHEET
SHT 2 OF 7	SITE PLAN
SHT 3 OF 7	SANITARY SEWER PLAN
SHT 4 OF 7	EROSION CONTROL PLAN
SHT 5 OF 7	GRADING & DRAINAGE PLAN

LANDSCAPE PLAN

LS1.1	LANDSCAPE PLAN
LS1.1	LIFE SAFETY PLAN
AC1.1	ACCESSIBILITY PLAN

ARCHITECTURAL

A1.0	OVERALL FLOOR PLAN
A2.1	EXTERIOR ELEVATIONS
A2.2	EXTERIOR ELEVATIONS
A3.1	BUILDING SECTIONS
A4.1	WALL SECTIONS
A4.2	WALL SECTIONS
A5.0	ROOF PLAN
A5.1	ROOF DETAILS
A6.0	DOOR AND WINDOW KEY PLAN
A6.1	DOOR AND WINDOW ELEVATIONS
A6.2	DOOR AND WINDOW DETAILS

STRUCTURAL

S1.0	GENERAL NOTES/ ABBREVIATIONS
S2.0	FOUNDATION PLAN
S3.0	ROOF FRAMING
S4.0	FOUNDATION DETAILS
S5.0	ROOF/ WALL DETAILS

MECHANICAL

M001	MECHANICAL SEISMIC NOTES, SPECIFICATIONS
M101	FLOOR PLAN - MECHANICAL

PLUMBING

P001	PLUMBING DETAILS, SPECIFICATIONS
P101	FLOOR PLAN - PLUMBING

ELECTRICAL

E001	SCHEDULES - ELECTRICAL
E002	ONE LINE - ELECTRICAL
E003	PANELBOARDS & EQUIPMENT SCHEDULES - ELECTRICAL
E004	NOTES - ELECTRICAL
E100	PHOTOMETRICS - ELECTRICAL
E101	PHOTOMETRICS - ELECTRICAL
E102	PHOTOMETRICS - ELECTRICAL
E201	FLOOR PLAN - ELECTRICAL



VICINITY MAP



LOCATION OF PROJECT

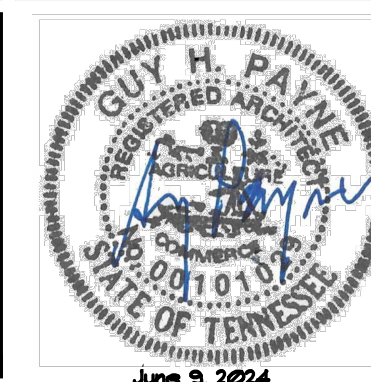
THESE DRAWINGS AND SPECIFICATIONS ARE OWNED AND COPYRIGHTED BY GUY PAYNE & ASSOCIATES ARCHITECTS, P.C., AND MAY NOT BE USED, COPIED, OR REPRODUCED WITHOUT WRITTEN CONSENT. ANY UNAUTHORIZED USE OR DISCLOSURE OF THE PROPRIETARY INFORMATION CONTAINED HEREIN MAY SUBJECT SUCH PERSONS TO CRIMINAL AND CIVIL PENALTIES AND DAMAGES.

GUY PAYNE & ASSOCIATES ARCHITECTS

879 WILLOW CIRCLE, STE. 114
CORDOVA, TENNESSEE 38018
(901) 756-1878

Retail Building
7418 Hwy 70
Bartlett, TN

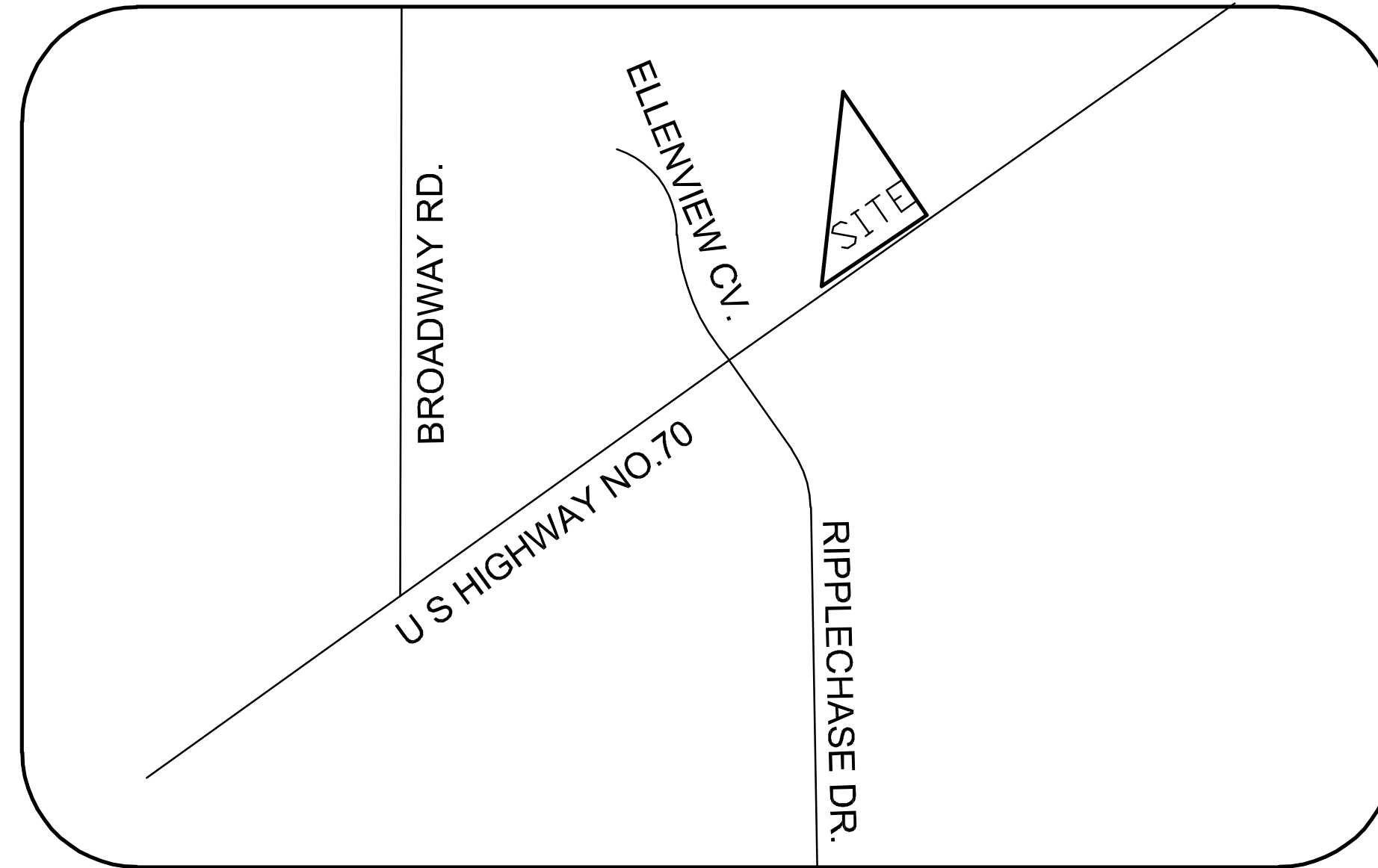
REV	DATE	DESCRIPTION



PROJECT NUMBER	4122
SCALE	AS SHOWN
SHEET NUMBER	C
DATE OF ORIGINAL ISSUE	JUNE 9, 2024

VICINITY MAP

n.t.s.



SITE PLAN APPLICATION

7418 U.S. HIGHWAY 70

BARTLETT, TENNESSEE

National Cities Corp I, LP.
DEVELOPER

The Bray Firm
ENGINEER

SCHEDULE OF DRAWINGS

COVER PAGE	1
SITE PLAN	2
SANITARY SEWER PLAN	3
EROSION CONTROL PLAN	4
GRADING AND DRAINAGE	5
LANDSCAPE PLAN (BY OTHERS)	6
ELEVATIONS (BY OTHERS)	7

GENERAL NOTES

CONSTRUCTION NOTES:

1. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
2. THE CONTRACTOR SHALL VERIFY ANY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
3. THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER.
4. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY EXISTING UTILITIES ENCOUNTERED WITHIN THE CONSTRUCTION PERIMETERS. FOR SITE LOCATION OF EXISTING UTILITIES INVOLVING M.G.&V., SOUTH CENTRAL BELL, AND/OR TEXAS GAS COMPANY, PLEASE CALL 1-800-351-1111. FOR SEWER SERVICE LOCATIONS, CALL 385-6499.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
6. TYPICAL SIDE SLOPES TO BE 1 FOOT VERTICAL TO 4 FEET HORIZONTAL.
7. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
8. 24 HOURS PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF BARTLETT ENGINEER'S OFFICE AT 385-6499.
9. ALL CONSTRUCTION MATERIALS & PROCEDURES SHALL MEET STANDARD CITY OF BARTLETT SPECIFICATIONS.
10. ALL FILL AND/OR TRENCH BACKFILL SHALL BE COMPACTED (IN 6 INCH LIFTS) TO 95% STANDARD PROCTOR WITHIN 3% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698-78 LATEST REVISION (STANDARD PROCTOR).
11. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A SILT FENCE PARALLELED WITH HAY BALES AT THE TOP OF ALL DITCH BANKS FOR THE WIDTH OF THE CONSTRUCTION LIMITS AND CONTINUOUSLY ALONG THE "STREAMSIDE" CONSTRUCTION LIMIT.
12. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND HAY BALES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NEEDED OR AS DIRECTED BY THE ENGINEER.
13. CONTRACTOR SHALL PROVIDE ALL NECESSARY EROSION CONTROL METHODS AS PER THE CITY OF BARTLETT, SHELBY COUNTY, AND STATE OF TENNESSEE REGULATIONS.
14. ENGINEERS CERTIFICATE: THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE CITY OF BARTLETT SUBDIVISION REGULATIONS AND SPECIFICATIONS.
15. LOT GRADING AND DRAINAGE:
FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE. THE FINISH GRADE MUST BEGIN AT LEAST 10 INCHES BELOW THE TOP OF THE FOUNDATION WALL OR THE GRADE OF THE CONCRETE SLAB AND FOUNDATION. THE MINIMUM GRADE AWAY FROM THE FOUNDATION WALL SHALL BE AT LEAST 5 PERCENT IN ALL DIRECTIONS. THE DRIVEWAY SHALL BE SLOPED DOWN AT 2 PERCENT FOR AT LEAST 8 FEET FROM THE STRUCTURE.
16. THE CITY OF BARTLETT SHALL HAVE INGRESS/EGRESS RIGHT TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC UTILITIES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID DRIVES AND YARDS.

JAMES & CINDY BARNETT
LOT 12, ELLENDALE S/D
(UNRECORDED)
INST. # 05150224
4.49 ACRES

KEVIN HOLMES
ELLENDALE S/D
(UNRECORDED)
INST. # 18038700
2.38 ACRES

LOT 12

LOT 11

ELLENVIEW SUBDIVISION
P.B. 120, PG. 61

LOT 10

LOT 9

PROPOSED BUILDING
6000 SF
FFE: 311.00

SEE PLUMBING
PLANS FOR
CONTINUATION

SCO
6": 307.50
100 L.F. OF PRIVATE
6" SS @ 1.00%

SITE IS LOCATED WITHIN
FLETCHER CREEK BASIN,
HOWEVER, SITE WAS
PREVIOUSLY CONNECTED TO
SEWER SYSTEM AND IS
ENTITLED TO SEWER TAP

CONNECTION TO WATER LINE
FOR CITY OF BARTLETT
WATER DESIGN

AREA
RESERVED
FOR STORMWATER
DETENTION

COMM

#11

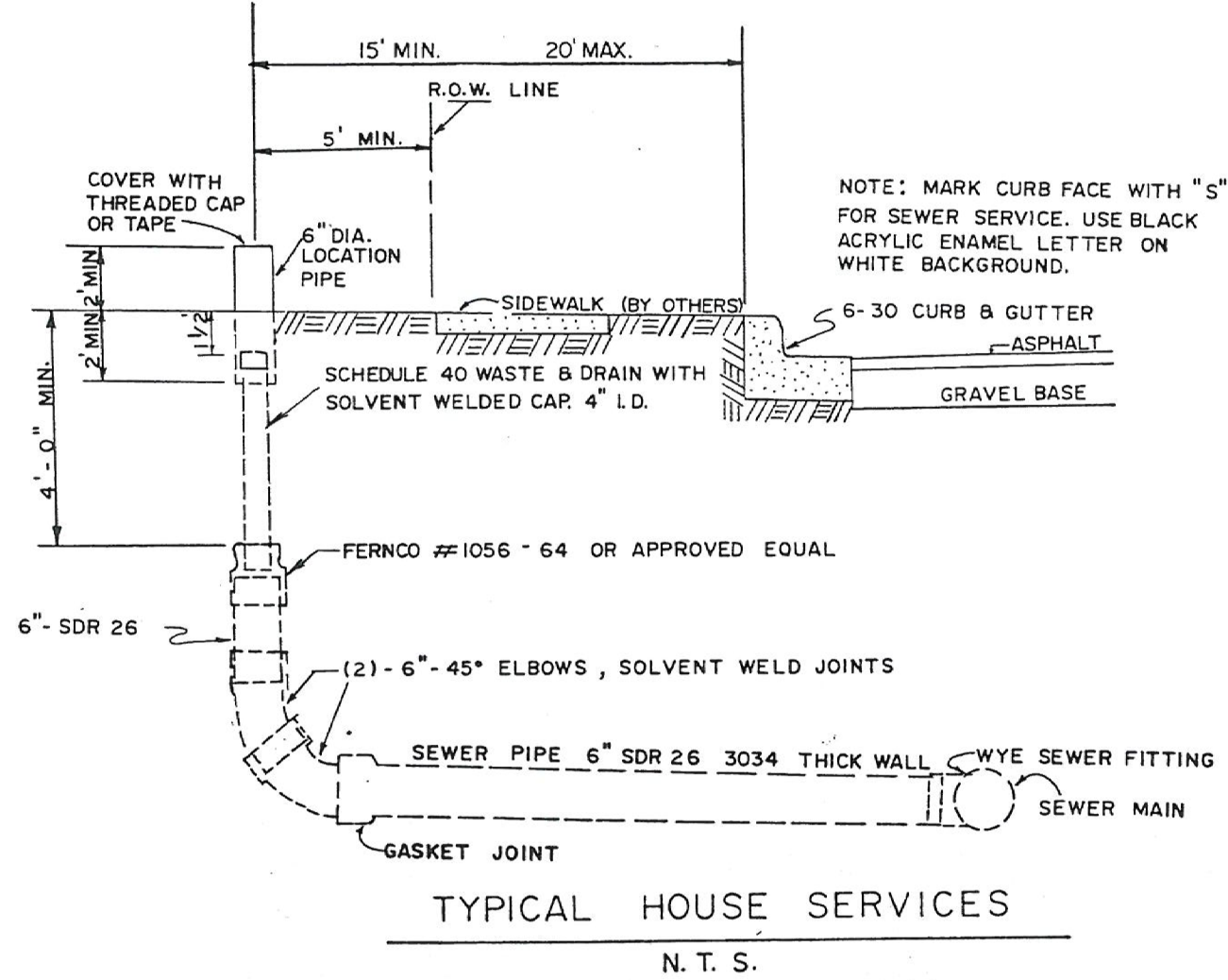
PP

PP

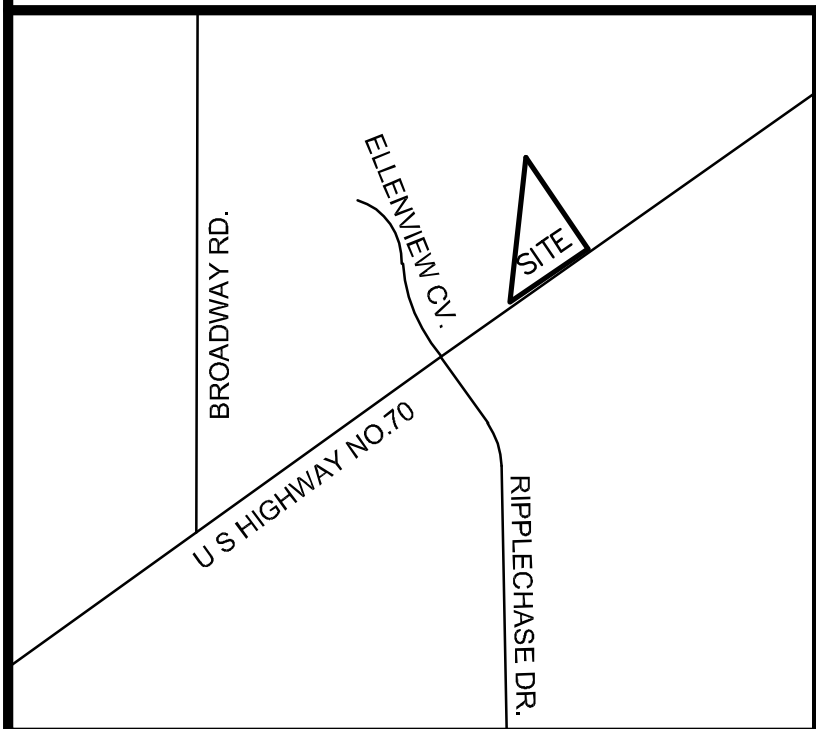
PP

FIP

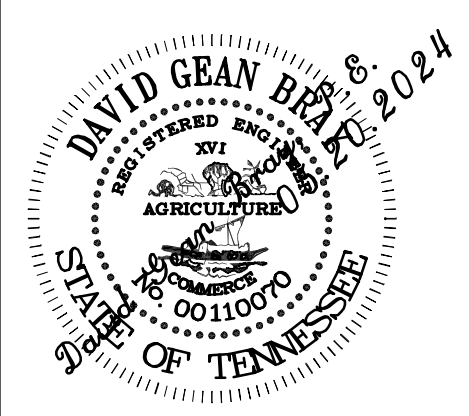
EXISTING WATER LINE
U.S. HIGHWAY 70
(61-FOOT R.O.W.)
EXISTING SSM



VICINITY MAP n.t.s.

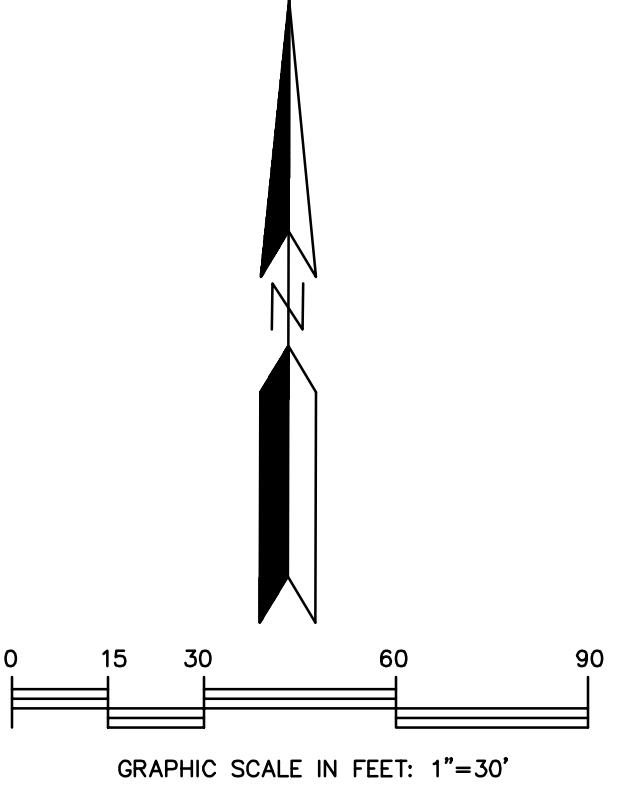


REVISIONS		
ITEM NO.	DESCRIPTION OF CHANGE	DATE APPROVED



7418 U.S. HIGHWAY 70

DEVELOPER: National Cities Corp I, LP.
ENGINEER: THE BRAY FIRM

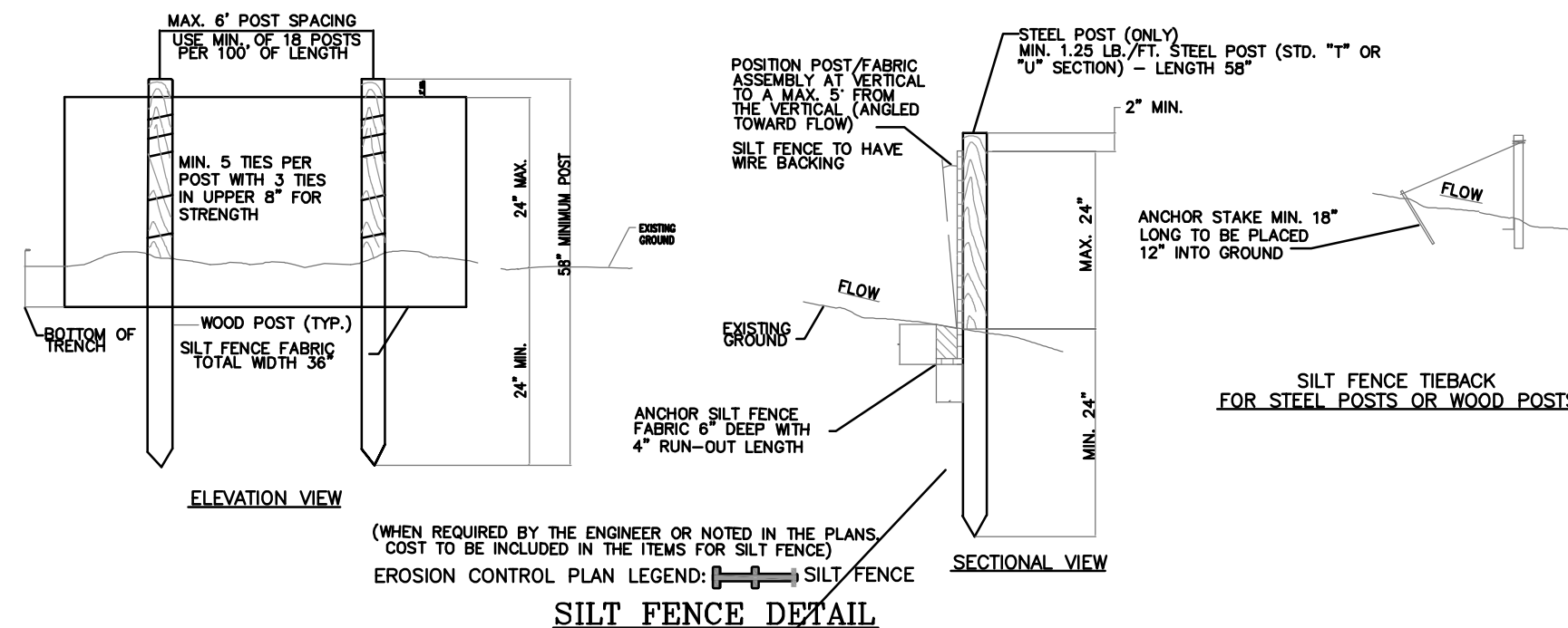
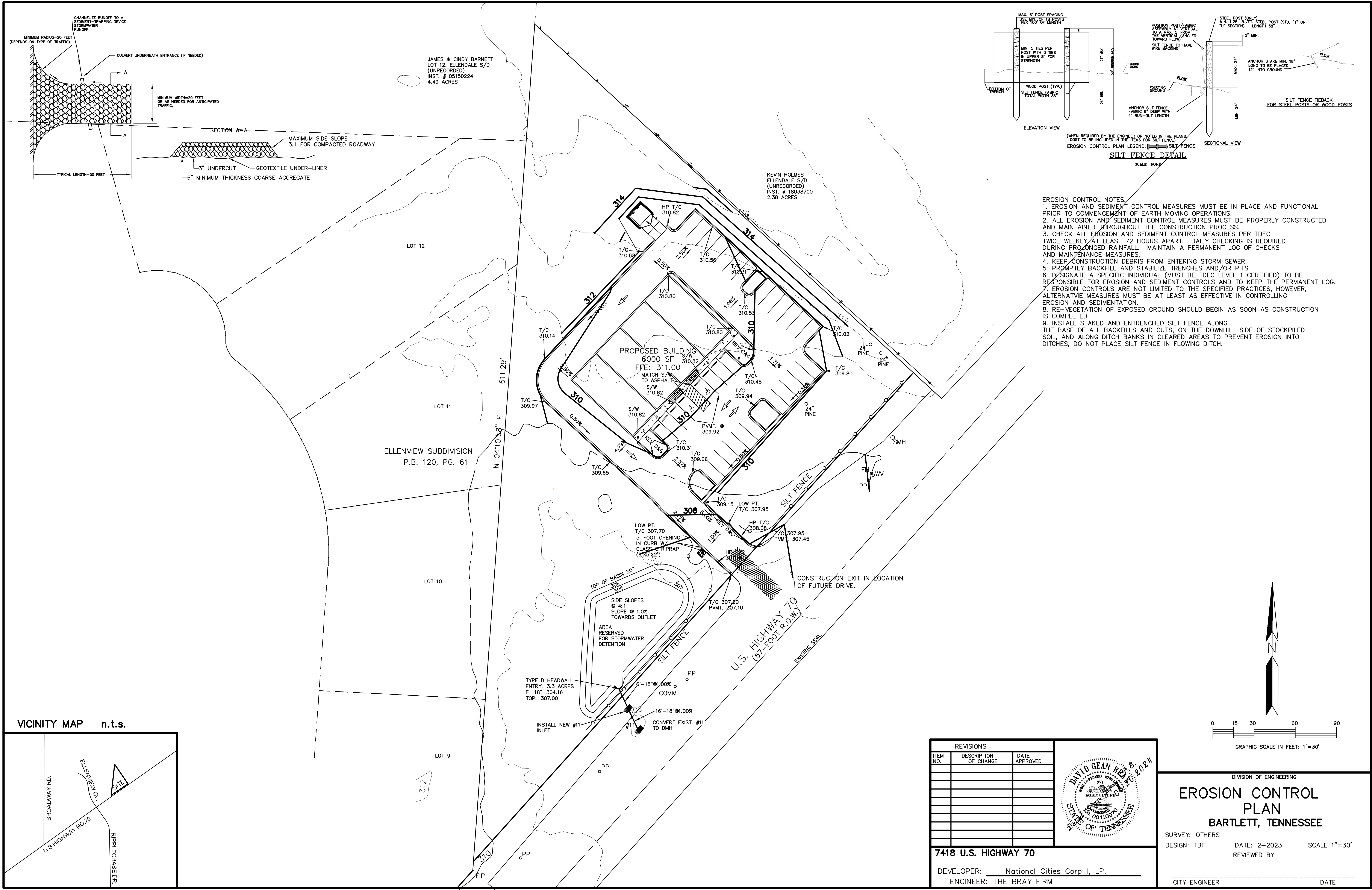


DIVISION OF ENGINEERING
SANITARY SEWER PLAN

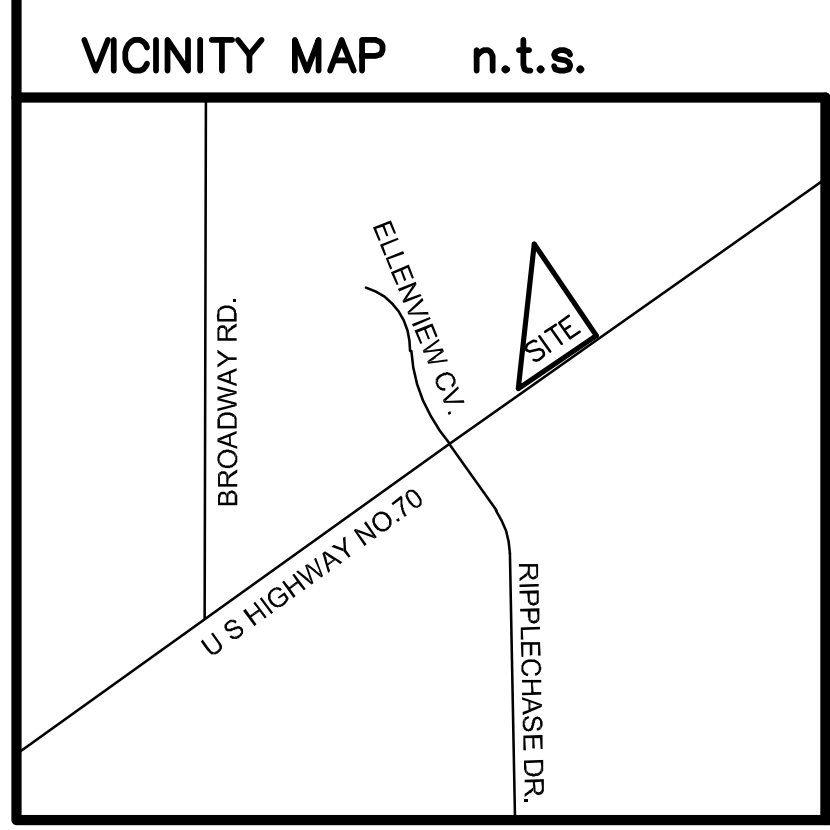
BARTLETT, TENNESSEE

SURVEY: OTHERS
DESIGN: TBF
DATE: 2-2023
REVIEWED BY
SCALE 1"=30'

CITY ENGINEER
DATE



- EROSION CONTROL NOTES:
1. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL PRIOR TO COMMENCEMENT OF EARTH MOVING OPERATIONS.
 2. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
 3. CHECK ALL EROSION AND SEDIMENT CONTROL MEASURES PER TDEC TWICE WEEKLY AT LEAST 72 HOURS APART. DAILY CHECKING IS REQUIRED DURING PROLONGED RAINFALL. MAINTAIN A PERMANENT LOG OF CHECKS AND MAINTENANCE MEASURES.
 4. KEEP CONSTRUCTION DEBRIS FROM ENTERING STORM SEWER.
 5. PROMPTLY BACKFILL AND STABILIZE TRENCHES AND/OR PITS.
 6. DESIGNATE A SPECIFIC INDIVIDUAL (MUST BE TDEC LEVEL 1 CERTIFIED) TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AND TO KEEP THE PERMANENT LOG.
 7. EROSION CONTROLS ARE NOT LIMITED TO THE SPECIFIED PRACTICES, HOWEVER, ALTERNATIVE MEASURES MUST BE AT LEAST AS EFFECTIVE IN CONTROLLING EROSION AND SEDIMENTATION.
 8. RE-VEGETATION OF EXPOSED GROUND SHOULD BEGIN AS SOON AS CONSTRUCTION IS COMPLETED
 9. INSTALL STAKED AND ENTRENCHED SILT FENCE ALONG THE BASE OF ALL BACKFILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG DITCH BANKS IN CLEARED AREAS TO PREVENT EROSION INTO DITCHES, DO NOT PLACE SILT FENCE IN FLOWING DITCH.



REVISIONS		
ITEM NO.	DESCRIPTION OF CHANGE	DATE APPROVED

7418 U.S. HIGHWAY 70

DEVELOPER: National Cities Corp I, LP.
ENGINEER: THE BRAY FIRM

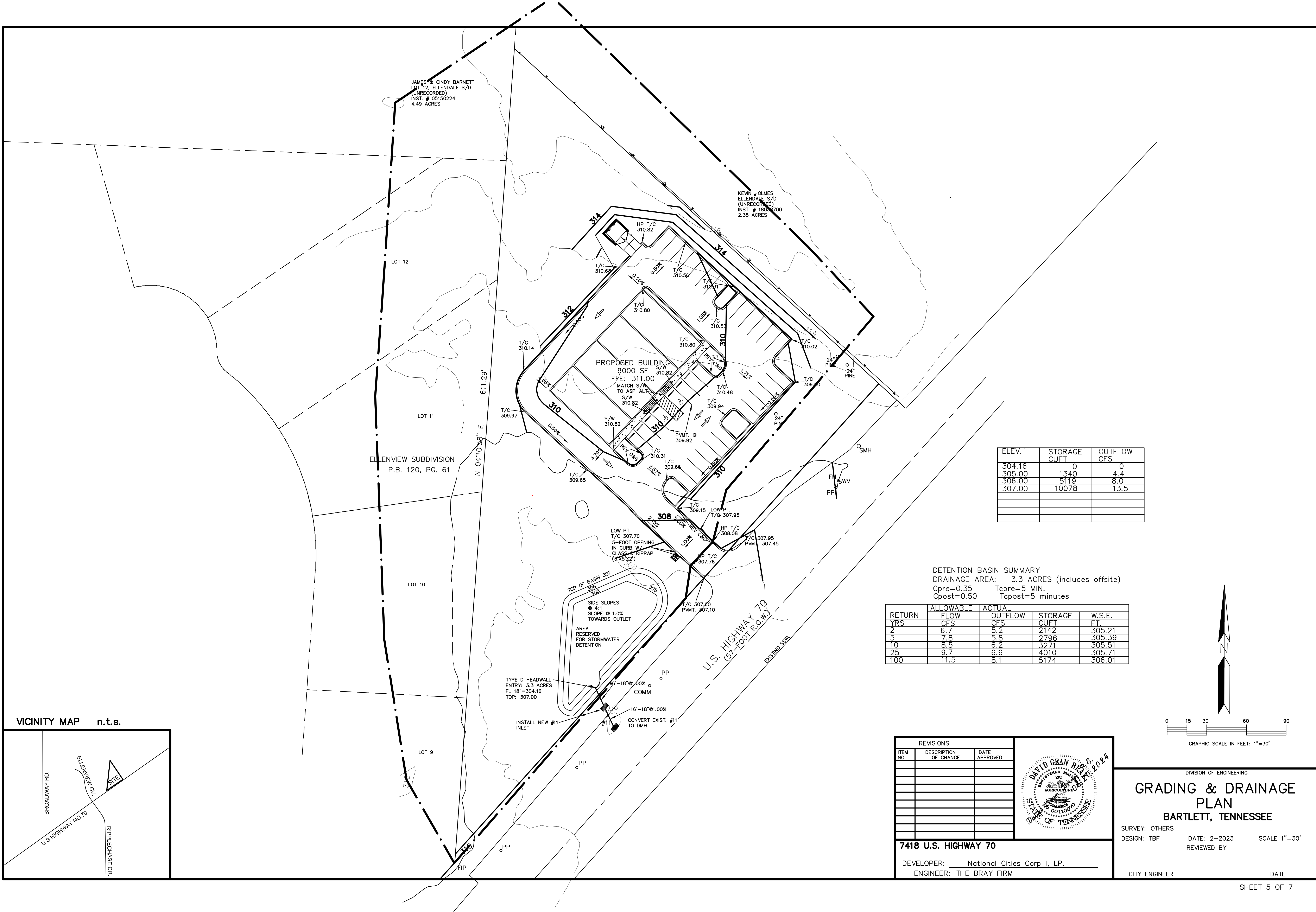
DIVISION OF ENGINEERING

EROSION CONTROL PLAN
BARTLETT, TENNESSEE

SURVEY: OTHERS
DESIGN: TBF
DATE: 2-2023
REVIEWED BY: _____

SCALE 1"=30'

CITY ENGINEER: _____ DATE: _____

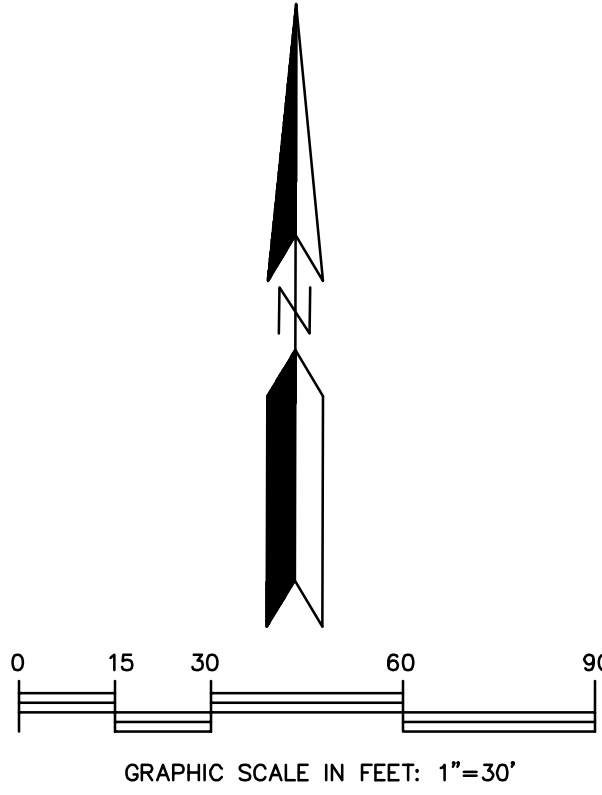
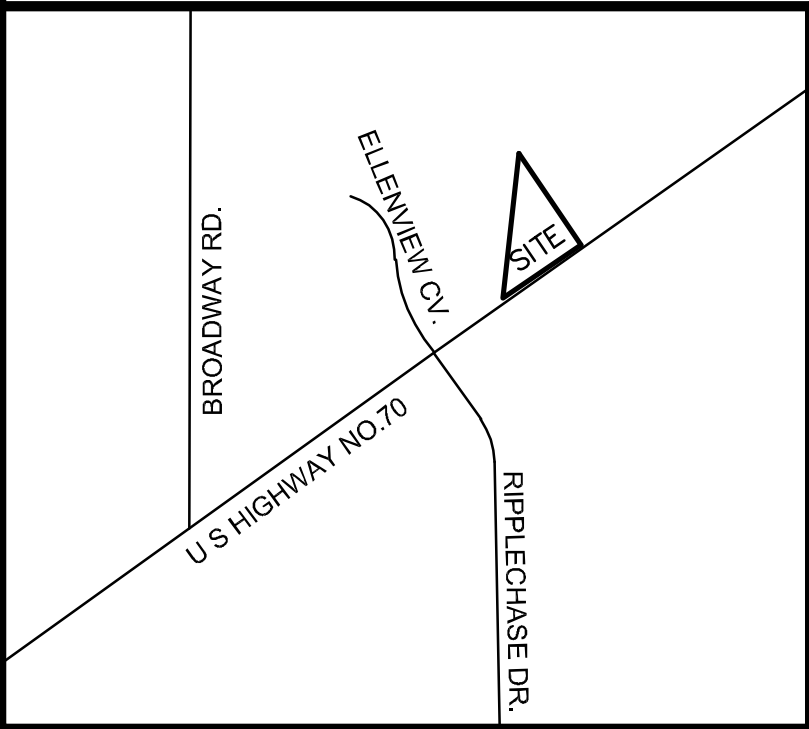


ELEV.	STORAGE CUFT	OUTFLOW CFS
304.16	0	0
305.00	1340	4.4
306.00	5119	8.0
307.00	10078	13.5

DETENTION BASIN SUMMARY
DRAINAGE AREA: 3.3 ACRES (includes offsite)
Cpre=0.35 Tcpre=5 MIN.
Cpost=0.50 Tcpost=5 minutes

RETURN YRS	ALLOWABLE	ACTUAL		W.S.E. FT.
	FLOW CFS	OUTFLOW CFS	STORAGE CUFT	
2	6.7	5.2	2142	305.21
5	7.8	5.8	2796	305.39
10	8.5	6.2	3271	305.51
25	9.7	6.9	4010	305.71
100	11.5	8.1	5174	306.01

VICINITY MAP n.t.s.



REVISIONS

ITEM NO.	DESCRIPTION OF CHANGE	DATE APPROVED

DAVID GEAN BRAY & ASSOCIATES, INC.

REGISTERED ENGINEER

00110070

STATE OF TENNESSEE

2024

7418 U.S. HIGHWAY 70

DEVELOPER: National Cities Corp I, LP.

ENGINEER: THE BRAY FIRM

DIVISION OF ENGINEERING

GRADING & DRAINAGE
PLAN
BARTLETT, TENNESSEE

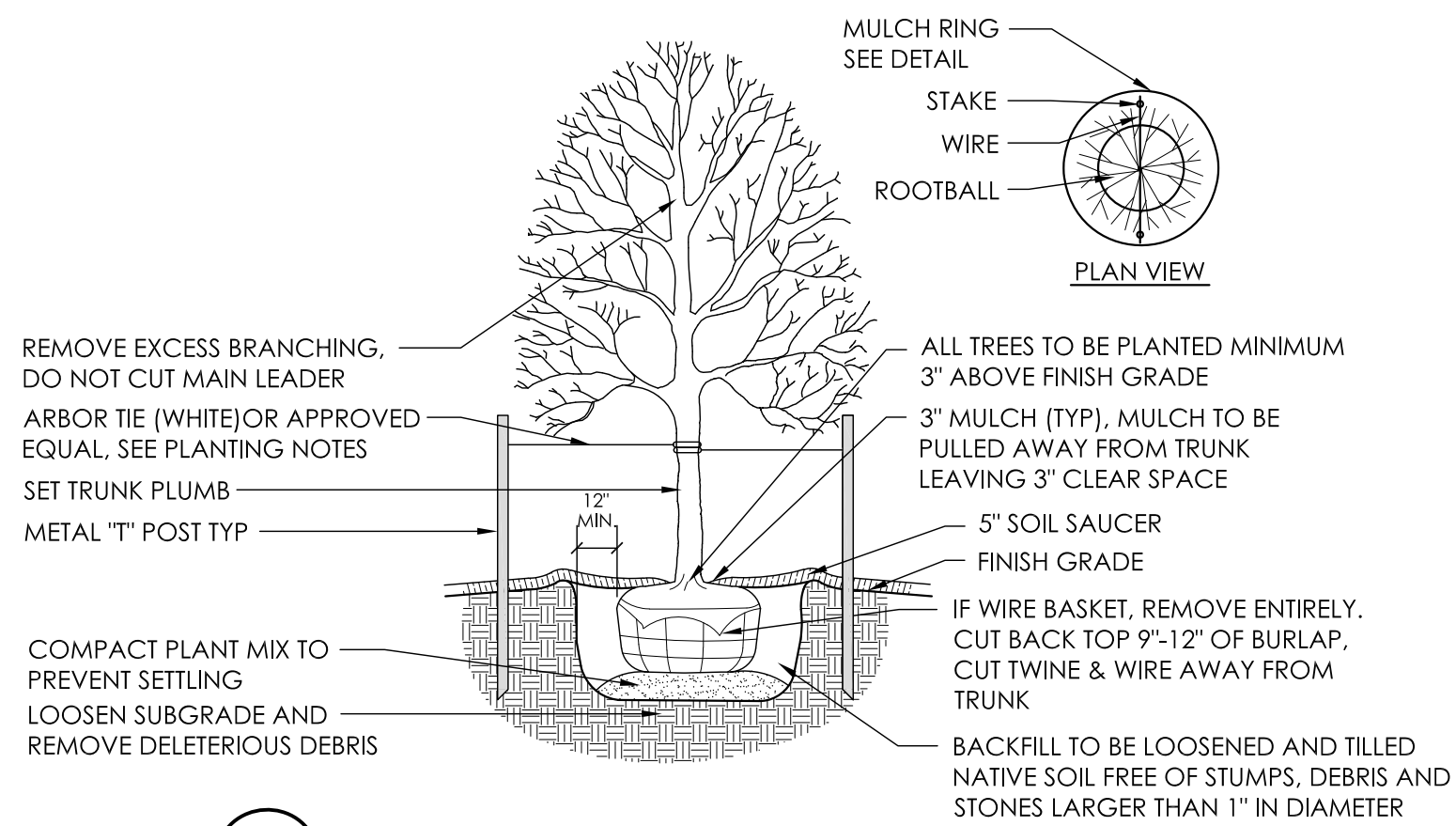
SURVEY: OTHERS
DESIGN: TBF
DATE: 2-2023
REVIEWED BY

SCALE 1"=30'

CITY ENGINEER
DATE

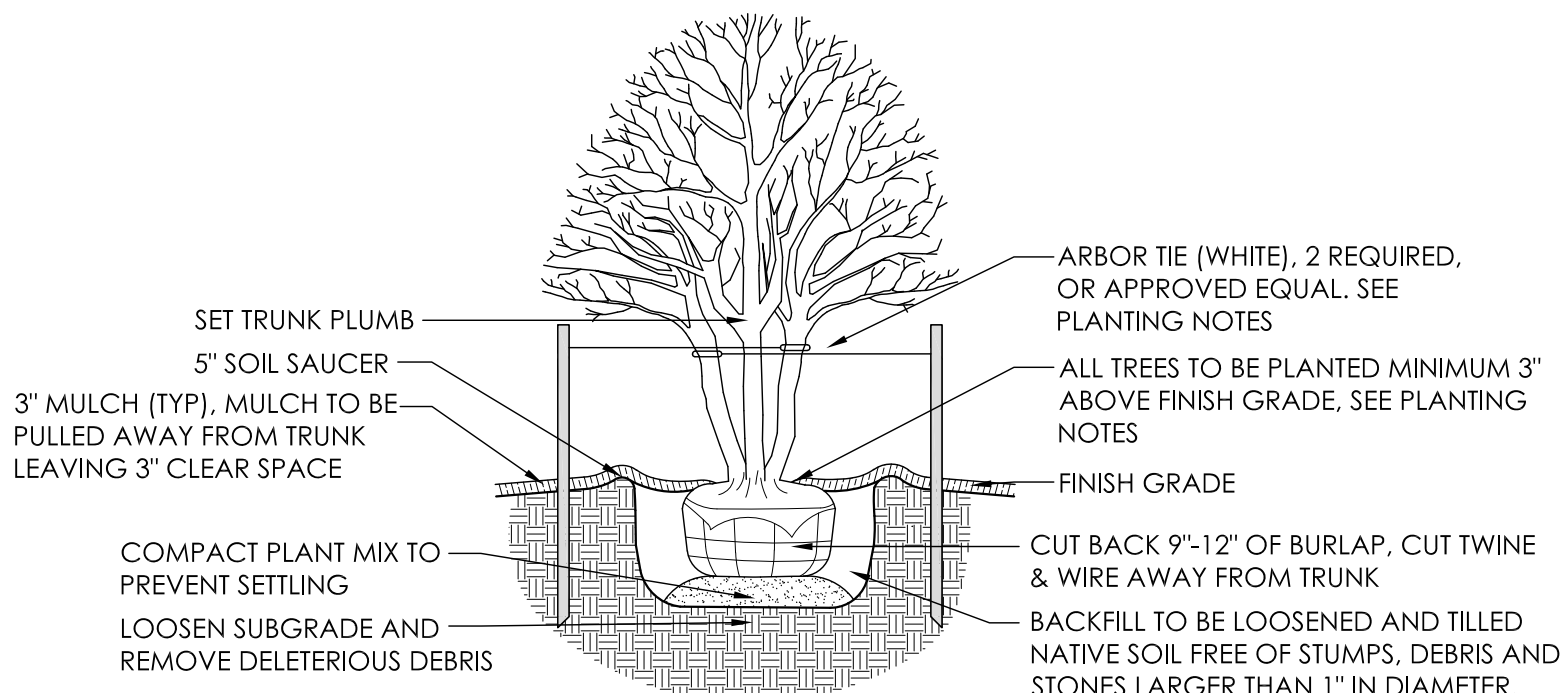
PLANTING NOTES

- This site and landscape construction project is located in Bartlett, TN and shall meet all construction and safety guidelines of the City of Bartlett. All construction including landscaping shall be inspected by Bartlett officials. All plant material used in this construction are subject to the approval of the Owner, Owners Representative and Bartlett officials.
- When the Contractor provides a proposal or bid for the installation of the scope for this project, a second bid/proposal shall be provided to the owner for maintenance of the scope of work for one calendar year after final acceptance.
- The landscape contractor (LC) shall verify the plant quantities from the Landscape Plan prior to submitting a bid. The landscape architect shall be notified of any discrepancies between the LC's take-off and the quantities shown on the plant schedule.
- It is the LC's responsibility to find a source of plants prior to submitting a bid and secure them in the event they are selected to provide this installation. Substitution of plants is not allowed.
- Prior to submitting a bid, the contractor shall acquaint themselves with the existing site and all site conditions.
- Prior to the installation of plants, the landscape contractor shall notify the appropriate utility companies and identify the location of all utilities, above and below ground and avoid them during construction. In the event of a possible conflict, the contractor shall contact the General Contractor and project coordinator and document such conflicts with a proposed resolution for the conflict for approval before proceeding. Any damage of utilities shall be repaired and restored immediately at the contractor's expense and no additional cost to the owner.
- The Developer/Contractor is responsible for making sure all sight triangles are clear of obstructions at all times.
- All plant materials shall conform to the size and quality guidelines of the "American Standard for Nursery Stock", latest edition, (ANSI Z60.1).
- Plant material including sod, topsoil, pro-mix, and all other materials shall be free of weeds, weed seeds, disease, insects, pests, eggs or larvae. Damaged plant material is not acceptable and shall be rejected.
- If selected to provide this work, the LC shall coordinate the timing of installation with the owner's representative and GC.
- All plant material shall be balled and burlapped (B&B) or container grown. All plants shall be guaranteed for one calendar year starting when written notice of Substantial Completion is secured after approval by the Bartlett Inspector and Owners Representative. The use of bare root ground cover is allowed in areas that will be irrigated with written permission by the Owner's Representative.
- All new plant material including sod shall be installed and watered-in individually on the day they are first installed. At the installation of trees slowly water the root ball to completely fill the hole.
- The LC shall keep the sidewalks and driveways clean of debris, dirt and mulch at all times by means of sweeping and hosing down the areas. At no time, shall mulch be on the sidewalks or driveways.
- The Landscape Contractor is responsible for supplementing all new planting beds with new "Pro-Mix" soil and tilling this area entirely before plants are installed. All planting areas shall have a 2% slope away from the building and site identification signage to allow positive drainage.
- New planting beds shall be eradicated of all weeds and their root systems. The Landscape Contractor is responsible for applying "Pre-emergent" herbicide, such as Preen, Casoron or approved equal, per manufacturer's specifications. The "Pre-emergent" that is chosen shall not harm the newly planted material. The "Pre-emergent" shall target all noxious weeds to this region including Nut Grass (Cyperus esculentus and Cyperus rotundus).
- Mulch shall be free of weeds, weed seed, deleterious materials, pests, and all other matter that may be harmful to plant growth.
- All new planting beds shall have 2"-3" layer max. of hardwood mulch (natural brown) installed evenly throughout. Use natural brown mulch; no stained or colored mulch permitted. Where mulch is installed around trees, pull back mulch from tree trunk leaving 3" clear space.
- Refer to detail 8/L1.0 for mulch area between the curb and shrub at full mature size. Note the mulch space and location shown of all plants on plans are intentional. Shrub mass shapes are intentional whether it be linear or curvilinear.
- Areas indicated to be sodded shall be disked rough, leveled, and placed snug. After installation, the sod shall be fertilized and then watered for a period long enough to ensure moisture has absorbed through the sod and into the underlying ground.
- All "green areas" that are not landscaped or sodded shall be seeded to the line of no disturbance. See the grading plan or limits as determined in the field.
- Where roof drains let water into a landscape area, the LC shall use 4" flex pipe, concrete splash block, a brick "V" trench, or another method approved by the owner/owner's rep and/or landscape architect to extend the roof drainage to a turf or paved area.
- All plant material purchased in a commercial plant nursery must label (Plant Tag) each plant they sell. Gather two sets of plant tags for all plants installed and provide to the Owners Representative at the installation inspection.
- Staking of plants as shown in the details is optional. However, in the event the plant shifts to an "unplumb" position during the warranty period, the contractor shall correct its position within 1 calendar week of written notification.
- The LC shall remove all guy wires and stakes at the conclusion of the guarantee period and prior to final inspection by the GC and Owners Representative before final payment will be made.
- Terra-Sorb shall be mixed and applied per manufacturers specifications or all proposed landscape.



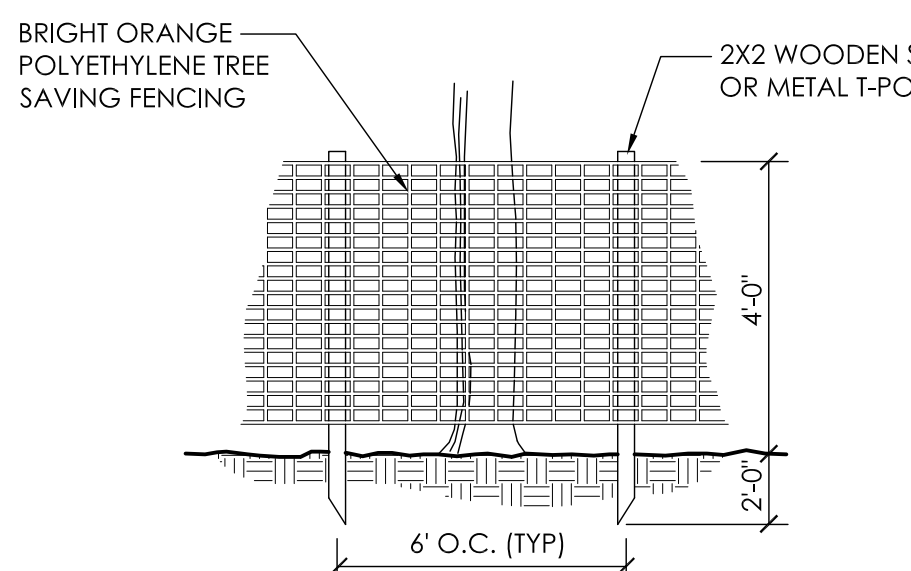
1 SINGLE TRUNK TREE PLANTING DETAIL
SCALE: NTS

NOTE: ARBOR TIE MANUFACTURED BY: DEEP ROOT PARTNERS L.P.
81 LANGTON STREET SAN FRANCISCO, CA 94103
PHONE: 415-437-9700 OR 1-800-458-7668, FAX: 1-800-277-7668.



2 MULTI-TRUNK TREE PLANTING DETAIL
SCALE: NTS

NOTE: ARBOR TIE MANUFACTURED BY: DEEP ROOT PARTNERS L.P.
81 LANGTON STREET SAN FRANCISCO, CA 94103
PHONE: 415-437-9700 OR 1-800-458-7668, FAX: 1-800-277-7668.

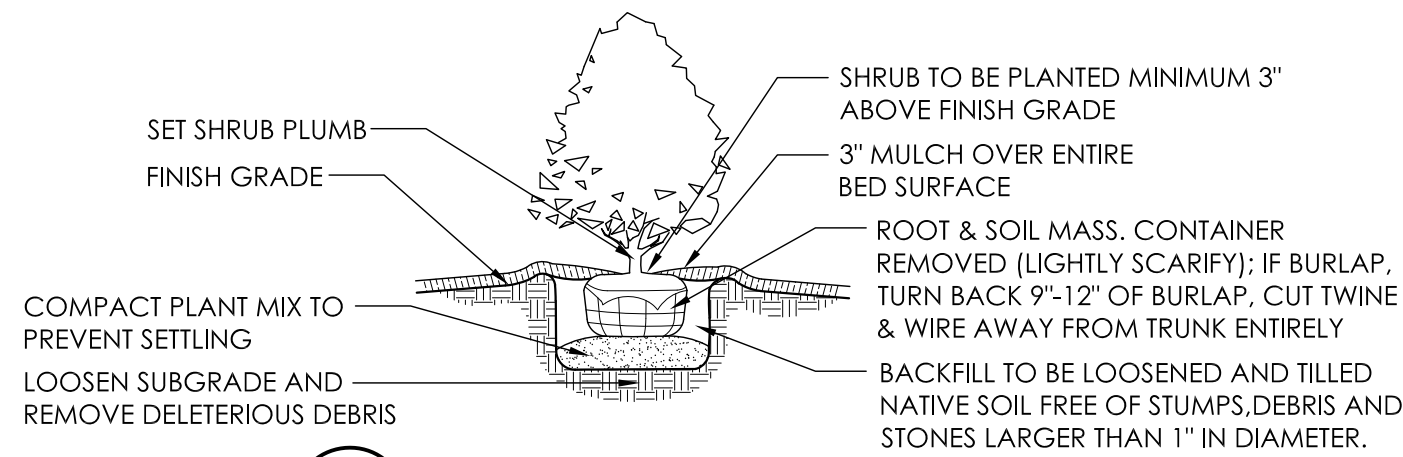


3 TREE PROTECTION DETAIL
SCALE: NTS

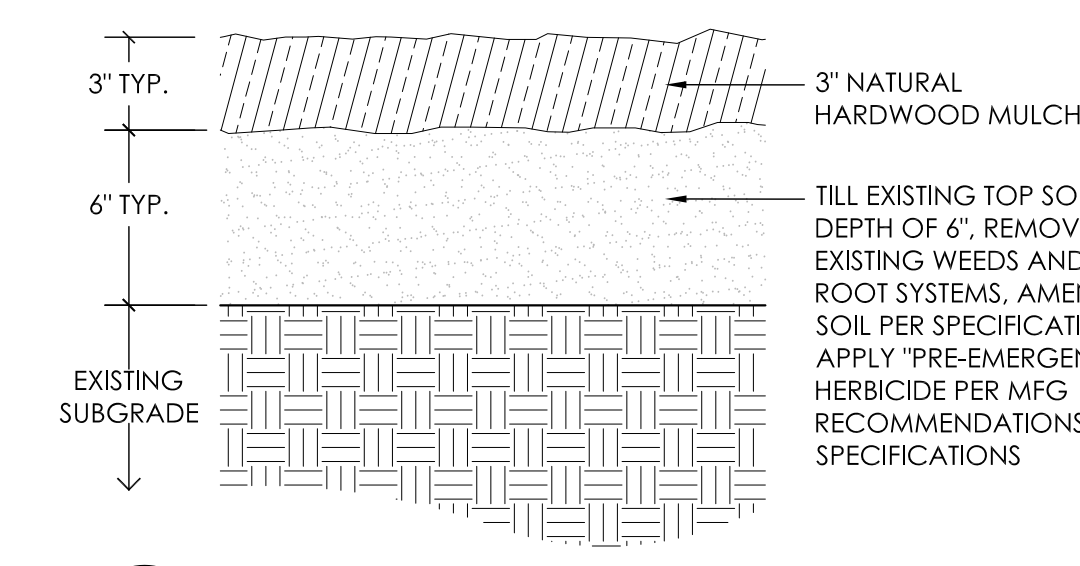
- FENCING TO BE INSTALLED ALONG THE DRIP LINE OF ALL TREES NOTED TO REMAIN ON THE PLANS.
- FENCING SHALL NOT BE MOVED DURING CONSTRUCTION, AND NO STORAGE OF MATERIALS, PARKING OF EQUIPMENT OR VEHICLES, NOR ANY OTHER ACTIVITY SHALL OCCUR WITHIN THE FENCED PERIMETER FOR ANY REASON.
- MINIMUM OVERLAP OF LOCATION OF TREE FENCING IS AT DRIP LINE WHERE POSSIBLE.

IRRIGATION NOTES

- The exact location of existing and new water lines shall be verified prior to construction.
- An irrigation system shall be designed and installed by the landscape contractor. Irrigation system shall be designed and zoned based on the pressure at the water main tap and shall meet all requirements of the local code.
- Irrigation contractor (or LC) to perform a flow test to verify that there will be adequate flow and pressure in the system as designed prior to installation of the irrigation system.
- Once the BFP is installed, the Landscape Contractor shall screen it from the public view with evergreen landscaping that matches the landscaping plan. The plant is to be chosen by the Owner.
- Available water pressure and gallowage per minute must be checked at project site prior to design of system to insure adequate available flow and pressure.
- All mainlines and lateral lines must be sized so that the water velocity will not exceed 5 feet per second.
- Pipe layout must be designed to provide adequate pressure and flow to meet irrigation head manufacturers' minimum requirements.
- Irrigation zones must not exceed 80 gallons per minute.
- System must be capable of uniformly applying 1/2" of water per night, watering a maximum of 8 hours per night.
- Heads must be spaced at a distance equal to the output radius, providing a 100 percent overlap for even application of water.
- All mainlines must have a minimum of 18" cover; All lateral lines must have a minimum of 12" cover.
- All PVC must be class 200 and/or schedule 40.
- Irrigation controller location to be chosen by owner; if installed outdoors, controller must be mounted in a lockable, weatherproof, vandal-resistant box, 110-120 volt power to the controller to be provided by the general contractor.
- All electric remote-control valves must be pressure regulating to ensure that no misting will occur.
- All system components and hardware must be installed per manufacturers' specification.
- All mainlines must be pressure tested prior to backfilling trenches.
- All lines must be flushed prior to installation of heads.
- Mainline to be looped where possible. All rotor heads must be mounted on swing joints per manufacturers' recommendation.
- No rocks or other extraneous material may be used in backfill operations.
- Contractors to provide automatic drain valves in association with gravel ramps at low point of each zone.
- Contractor to provide expansion coils for each wire connection to the valve.
- Contractor to verify locations of sleeves. Sleeves have been provided by general contractor to each landscape island.
- Contractor to verify locations of all underground utilities prior to any construction or trenching.
- Contractor shall provide Back Flow Preventer; that meets all health and safety regulation of Bartlett and Shelby County. Contractor shall provide cover for the backflow preventer, cover shall be fiberglass, painted dark green.
- Contractor must provide manual gate valves at all mainline intersection.
- Owner shall provide the water meter for irrigation source and power to the controller.
- Contractor shall provide "Raincheck" Automatic Rain shut-off mechanism, to be installed on top of building near the controller; rain shut-off must be wired directly to the controller, no other electrical requirements.



4 SHRUB PLANTING DETAIL
SCALE: NTS

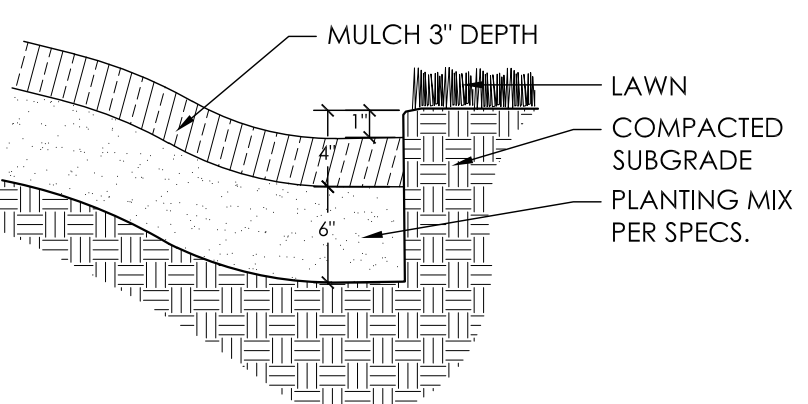


5 BED PREPARATION DETAIL
SCALE: NTS

NOTE: WAIT 1 WEEK AFTER APPLICATION OF GLYPHOSATE BEFORE PLANTING PROPOSED PLANT MATERIAL. APPLICATION OF "PRE-EMERGENT" SHALL BE AFTER PLANTING NEW PLANT MATERIAL AND BEFORE INSTALLATION OF MULCH.

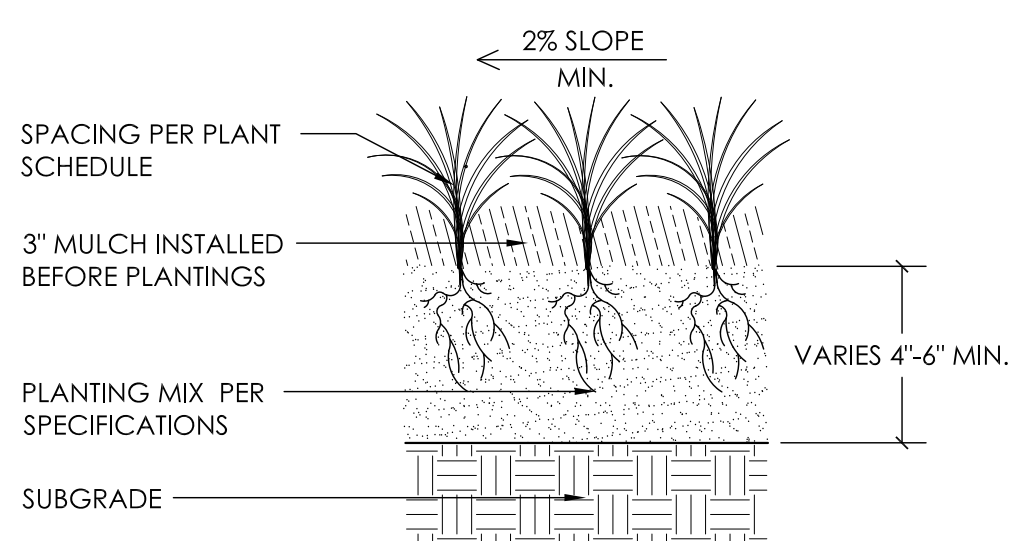
BED PREPARATION NOTES

- SOIL pH SHOULD BE ABOVE 5 - PREFERABLY BETWEEN 6.0 AND 6.5. SOIL ON THE SITE SHOULD BE TESTED TO DETERMINE LIME AND FERTILIZER RATES.
- GATHER A SOIL SAMPLE AND SUBMIT TO A SOILS SPECIALIST OR COUNTY AGRICULTURAL EXTENSION AGENT FOR TESTING AND SOIL AMENDMENT RECOMMENDATIONS.
- TEST EXISTING SOIL FOR PROPER PERCOLATION RATES. SEE WRITTEN SPECIFICATIONS FOR TEST INSTRUCTIONS AND SOIL AMENDMENTS TO IMPROVE PERCOLATION RATES.
- ADD PRO-MIX AND SOIL AMENDMENTS (IF NECESSARY BASED ON SOIL TEST RECOMMENDATIONS AND SOIL PERCOLATION TESTS) AND TILL INTO EXISTING TOP SOIL TO A DEPTH OF 6"-8" TO CREATE A UNIFORM MIX.
- APPLY "PRE-EMERGENT" PER MFG RECOMMENDATIONS AFTER THE INSTALLATION OF NEW PLANT MATERIAL AND BEFORE INSTALLATION OF MULCH.
- INSTALL (NATURAL BROWN) HARDWOOD MULCH TO A DEPTH OF 3"; ARTIFICIALLY COLORED OR STAINED MULCH IS NOT PERMITTED. DEPTH OF MULCH SHALL BE MEASURED AFTER MULCH HAS SETTLED 12 WEEKS AFTER INSTALLATION (MIN.).
- MULCH SHALL BE CLEAN, FREE OF DEBRIS, WEEDS, DISEASE, INSECTS, PESTS, EGGS OR LARVAE.



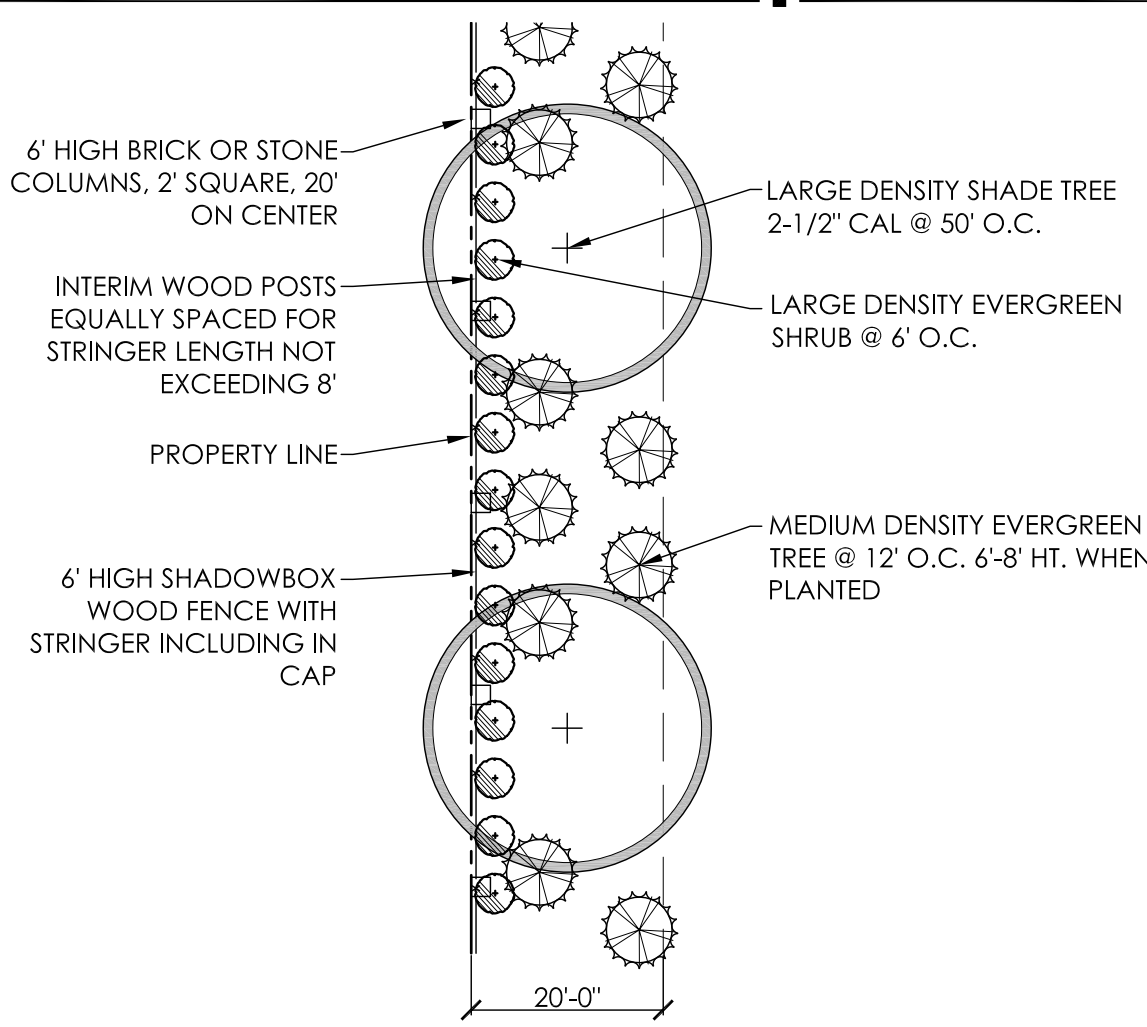
6 PLANTING EDGE DETAIL
SCALE: NTS

NOTE: TRENCH EDGE TO BE INSTALLED WHERE PLANTING BEDS ABUT SOD AND PAVING.



7 GROUND COVER PLANTING DETAIL
SCALE: NTS

NOTE: MULCH SHALL BE 3" FROM THE BASE OF ALL PLANT MATERIAL.



8 LANDSCAPE ISLAND SPACING DETAIL
SCALE: NTS

- EXISTING VEGETATION TO REMAIN WHERE POSSIBLE. SEE GRADING PLAN FOR LIMITS OF GRADING.
- WHERE EXISTING VEGETATION IS DISTURBED BY GRADING, USE THE ABOVE MODIFIED PLATE TO SUPPLEMENT PLANTINGS WHERE NEEDED.

NOTE: WAIT 1 WEEK AFTER APPLICATION OF GLYPHOSATE BEFORE PLANTING PROPOSED PLANT MATERIAL. APPLICATION OF "PRE-EMERGENT" SHALL BE AFTER PLANTING NEW PLANT MATERIAL AND BEFORE INSTALLATION OF MULCH.

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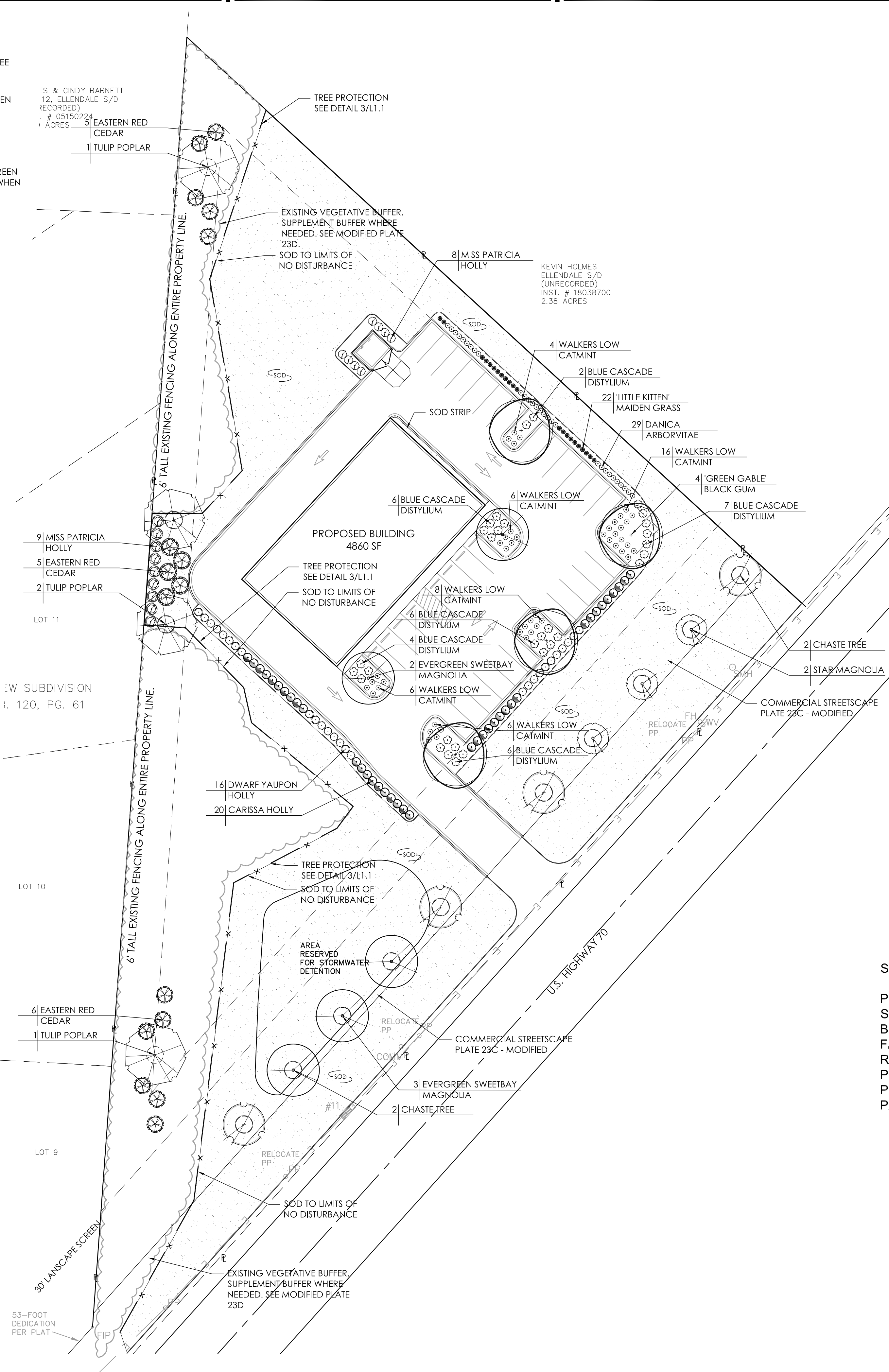
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A LANDSCAPE PLAN



PLANT SCHEDULE

Trees	Botanical Name	Common Name	Quantity	Cond.	Unit	Install Size (Min.)	Comments
	Juniperus virginiana	Eastern Redcedar	16	B&B	EA	8'-10' HT	Uniform branching, dominant leader
	Liriodendron tulipifera	Tulip Poplar	4	B&B	EA	2.5' Cal	Uniform branching, dominant leader
	Magnolia stellata 'Star'	Star Magnolia	3	B&B	EA	6'-8' HT	Well branched, Full to Ground
	Magnolia virginiana v. australis	Evergreen Sweetbay	5	B&B	EA	8'-10' HT	3 Cane min. @ 1" cal. each, No Crossing Leaders
	Nyssa sylvatica 'Green Gable' PP#22951	Green Gable Black Gum	4	B&B	EA	2.5' Cal	Uniform branching, dominant leader
	Vitex agnus-castus 'Shoal Creek'	'Shoal Creek' Chaste Tree	4	B&B	EA	6'-8' HT	3 Cane min. @ 1" cal. each, No Crossing Leaders

Ground Cover, Grass and Shrubs

Botanical Name	Common Name	Quantity	Cond.	Unit	Install Size (Min.)	Comments
Distylium 'Pittii' PP#24409	Blue Cascade Distylium	31	Cont.	EA	18" SPR	Spreading form
Ilex cornuta 'Carissa'	Carissa Holly	38	Cont.	EA	15"-18" HT	Full plant, free of weeds
Ilex vomitoria 'Nana'	Dwarf Yaupon Holly	27	Cont.	EA	18" SPR	Full plant, free of weeds
Ilex x latifolia 'Dapa'	Miss Patricia Holly	17	Cont.	EA	36" HT	Full plant, free of weeds
Miscanthus sinensis 'Little Kitten'	'Little Kitten' Maiden Grass	22	Cont.	EA	1-GAL FULL	Full plant, free of weeds
Nepeta x faasseni 'Walker's Low'	Walker's Low Catmint	45	Cont.	EA	1-GAL FULL	Full plant, free of weeds
Thuja occidentalis 'Danica'	Danica Arborvitae	29	Cont.	EA	12"-18" HT	Full plant, free of weeds
Sod	Tifway 419 Bermuda	4900	Cont.	SY		Free of weeds

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GUY PAYNE & ASSOCIATES ARCHITECTS

879 WILLOW CIRCLE, STE. 114

CORDOVA, TENNESSEE 38018

(901) 756-1878

Retail Buildings

7418 Hwy 70
Bartlett, TN

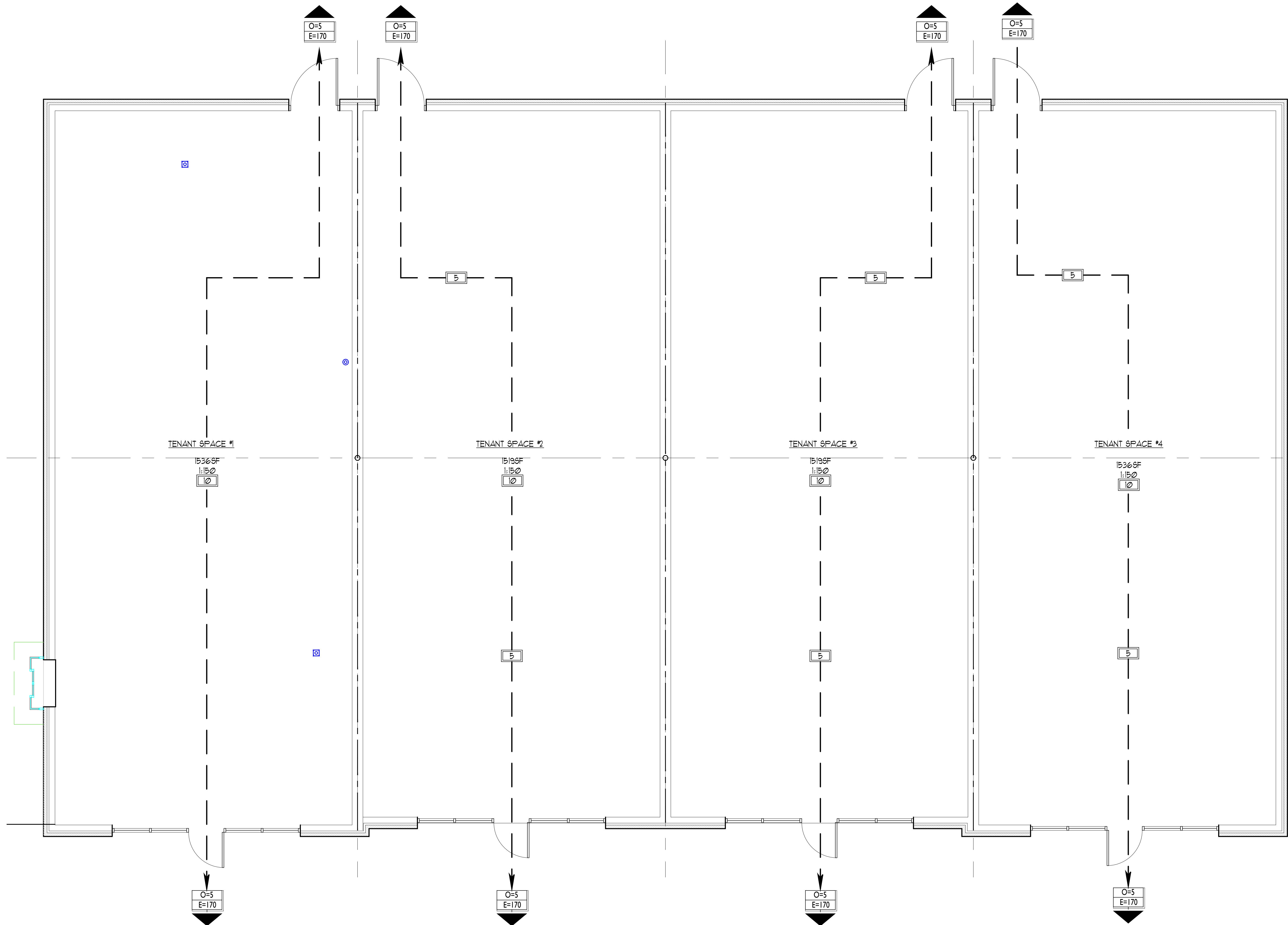
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BPD
BLAIR PARKER DESIGN
landscape architecture (LLD) master planning
www.blairparkerdesign.com
901.767.6353

REVISIONS	Date	By



PROJECT NUMBER
4202
SCALE
AS SHOWN
SHEET NUMBER
L1.1
DATE OF ORIGINAL ISSUE
2/5/2024



LIFE SAFETY LEGEND	
12	NUMBER OF OCCUPANTS FOR THAT SPACE
O=16 E=170	TOTAL NUMBER OF OCCUPANTS EGRESSING
5	MAXIMUM NUMBER OF OCCUPANTS ABLE TO EGRESS
5	ROUTE SUBTOTAL
● FE	FIRE EXTINGUISHER - SEMI RECESSED CABINET

PLUMBING SUMMARY	
PLUMBING REQUIRED:	
TOTAL OCCUPANCY (TENANT SPACE)	= 10 people (1514SF/150)
WATER CLOSET:	24 FEMALE = 1 WATER CLOSET PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50 = 1 WATER CLOSET REQUIRED
WATER CLOSET:	24 MALE = 1 WATER CLOSET PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50 = 1 WATER CLOSET REQUIRED
HAND SINKS:	1/25 for the first 50 + 1/50 for the remainder
DRINKING FOUNTAINS:	1 REQUIRED 1 PROVIDED
MOP SINK:	1 REQUIRED 1 PROVIDED
NOTE: LEAVE 10' OF CONCRETE UN-POURED UNTIL TENANT LEASE SIGNED AND RE-POUR SLAB AS NEEDED.	

PARTITION LEGEND	
=====	(2) 6" WOOD STUD WALLS, 1 HOUR INTERIOR NON-LOAD BEARING PARTITION EQUAL TO U.L. DESIGN NO. U419, CONSTRUCTED OF (1) ONE LAYER OF 5/8" TYPE 'X' GYPSUM BOARD ON EACH SIDE OF WOOD STUD FRAMING TIGHT FROM FLOOR SLAB TO DECK
NOTE: RATED WALLS WILL BE COMPLETED AS TENANT LEASES ARE SECURED AND PRIOR TO MOVING IN.	

EXIT ARRANGEMENT	
2 EXITS ARE REQUIRED PER IBC 2021 TABLE 1006.2.1 3 EXITS ARE PROVIDED. - EXITS SHALL BE SEPARATED BY NO LESS THAN 1/3 THE DIAGONAL OF THE AREA SERVED PER IBC 2015 SECTION 1007.1.1 EXCEPTION 2. (DIA DIST = 124'-0") - THE MINIMUM DISTANCE BETWEEN EXITS MUST BE 42'-0" THE ACTUAL DISTANCE IS 41'-4"	

RATED WALL STENCILING EXAMPLE	
EXAMPLE: (TEXT HEIGHT 3" MINIMUM)	
FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS	
NOTE: 1. FIRE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL: 11. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES. 12. BE LOCATED WITHIN 15 FEET (4572MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION, AND INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING: "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS" OR OTHER WORDING.	

1 LIFE SFEITY PLAN
SCALE: 1/8" = 1'-0"

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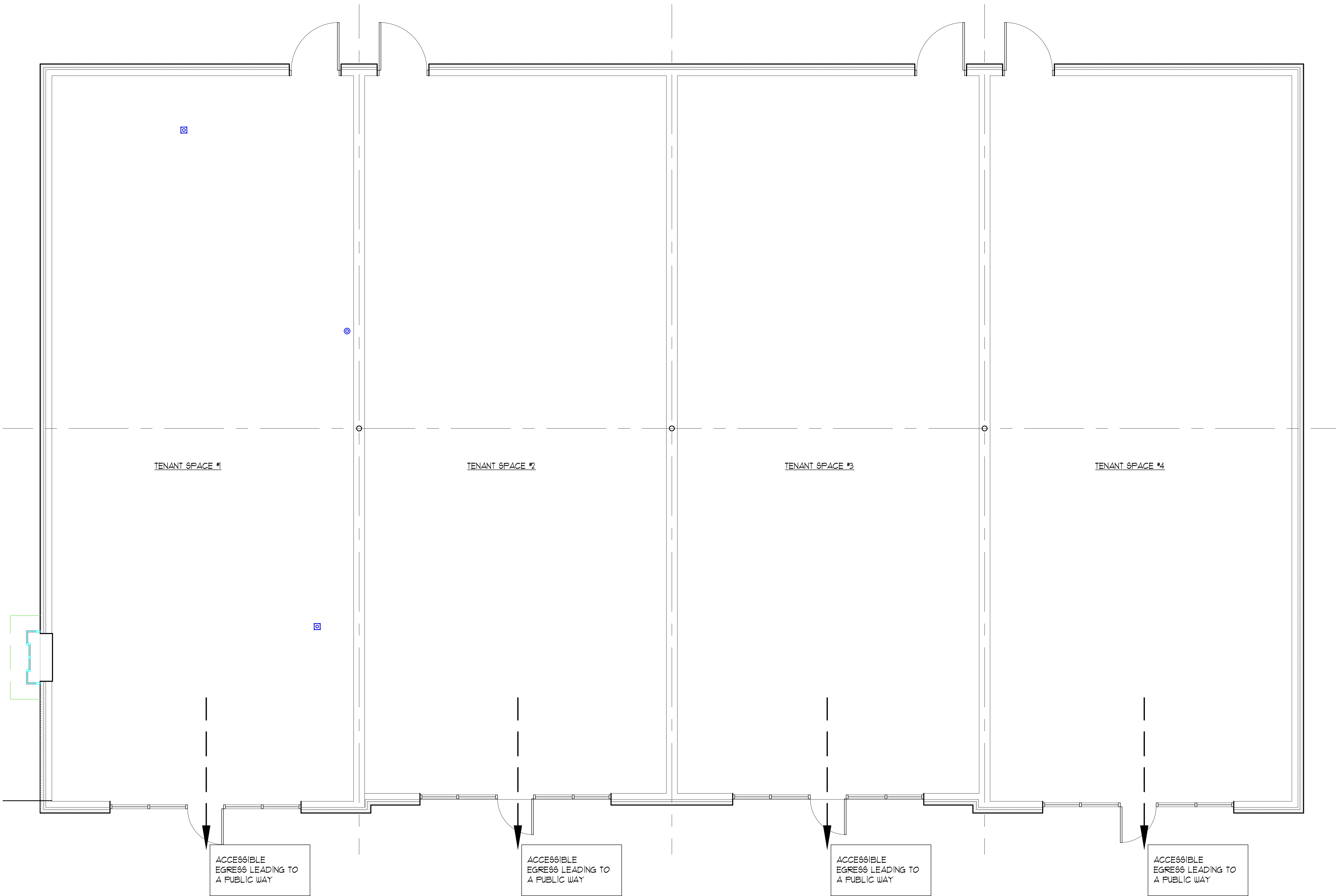
Retail Building
7418 Hwy 70
Bartlett, TN

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REVISIONS	
No.	Date

PROJECT NUMBER
4202
SCALE
AS SHOWN
SHEET NUMBER
LS1.1
OF
DATE OF ORIGINAL ISSUE
June 9, 2024

June 9, 2024
PROJECT NUMBER
4202
SCALE
AS SHOWN
SHEET NUMBER
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OF
DATE OF ORIGINAL ISSUE
June 9, 2024



1 Accessibility Plan
SCALE: 1/4" = 1'-0"

CODE REFERENCES

- ALL MANEUVERING CLEARANCES AT DOORS AND GATES COMPLY WITH 2010 ADA STANDARDS 404 TABLE 404.2.4.1
- CLEAR WIDTH AT DOORWAY SHALL BE 32" MIN PER 2010 ADA STANDARDS 404.2.3
- OPERABLE PARTS OF DOORS AND GATES SHALL COMPLY WITH 2010 ADA STANDARDS SECTION 309.4
- DOOR CLOSERS SHALL COMPLY WITH 2010 ADA STANDARDS SECTION 404.2.2.1
- DOOR AND GATE OPENING FORCE SHALL COMPLY WITH 2010 ADA STANDARDS SECTION 404.2.3

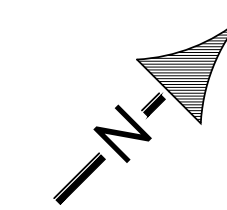
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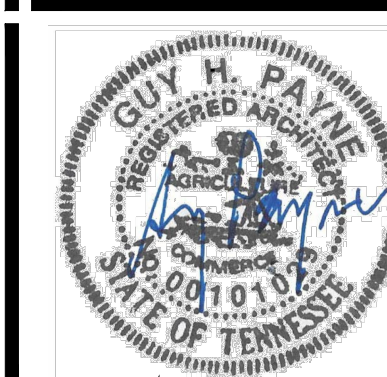
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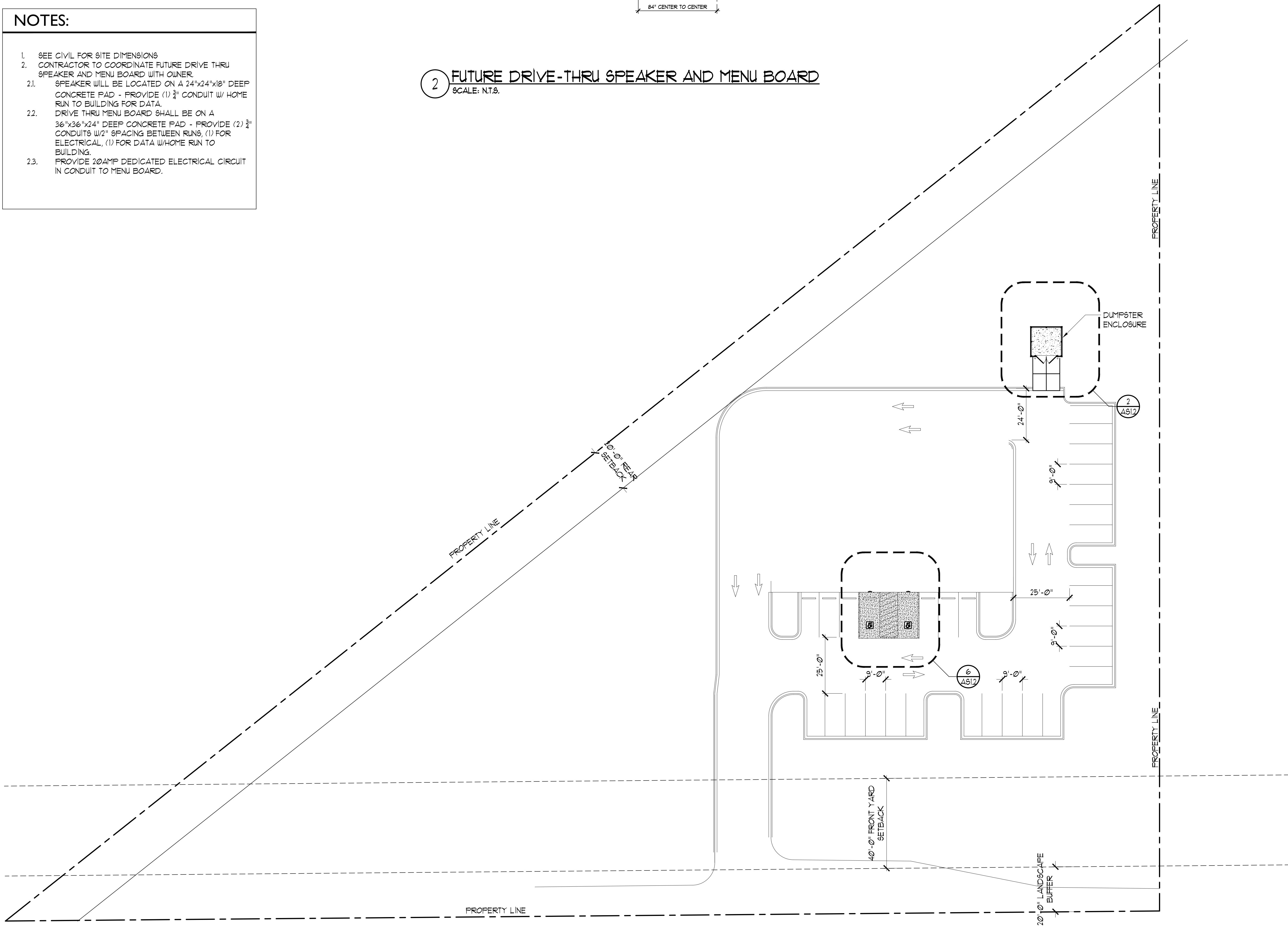
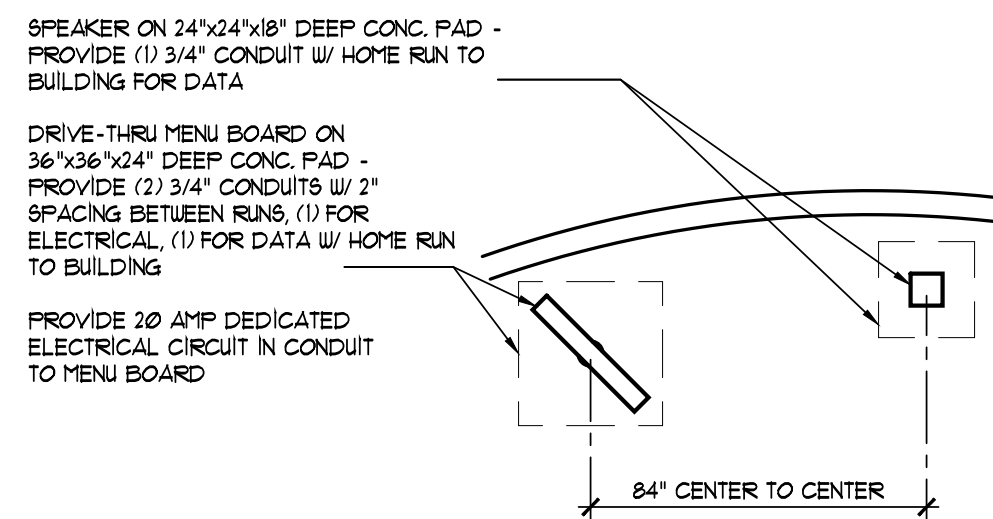
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PROJECT NUMBER	2100
SCALE	AS SHOWN
SHEET NUMBER	AC1.1
DATE OF ORIGINAL ISSUE	JUNE 9, 2024

- NOTES:
- SEE CIVIL FOR SITE DIMENSIONS
 - CONTRACTOR TO COORDINATE FUTURE DRIVE THRU SPEAKER AND MENU BOARD WITH OWNER
 - SPEAKER WILL BE LOCATED ON A 24"x24"x8" DEEP CONCRETE PAD - PROVIDE (1) 3/4" CONDUIT W/ HOME RUN TO BUILDING FOR DATA
 - DRIVE THRU MENU BOARD SHALL BE ON A 36"x36"x24" DEEP CONCRETE PAD - PROVIDE (2) 3/4" CONDUITS W/ 2" SPACING BETWEEN RUNS, (1) FOR ELECTRICAL, (1) FOR DATA W/ HOME RUN TO BUILDING
 - PROVIDE 20 AMP DEDICATED ELECTRICAL CIRCUIT IN CONDUIT TO MENU BOARD

2 FUTURE DRIVE-THRU SPEAKER AND MENU BOARD
SCALE: N.T.S.

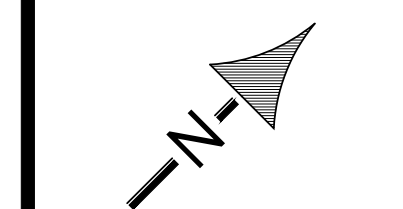


1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 20'-0"

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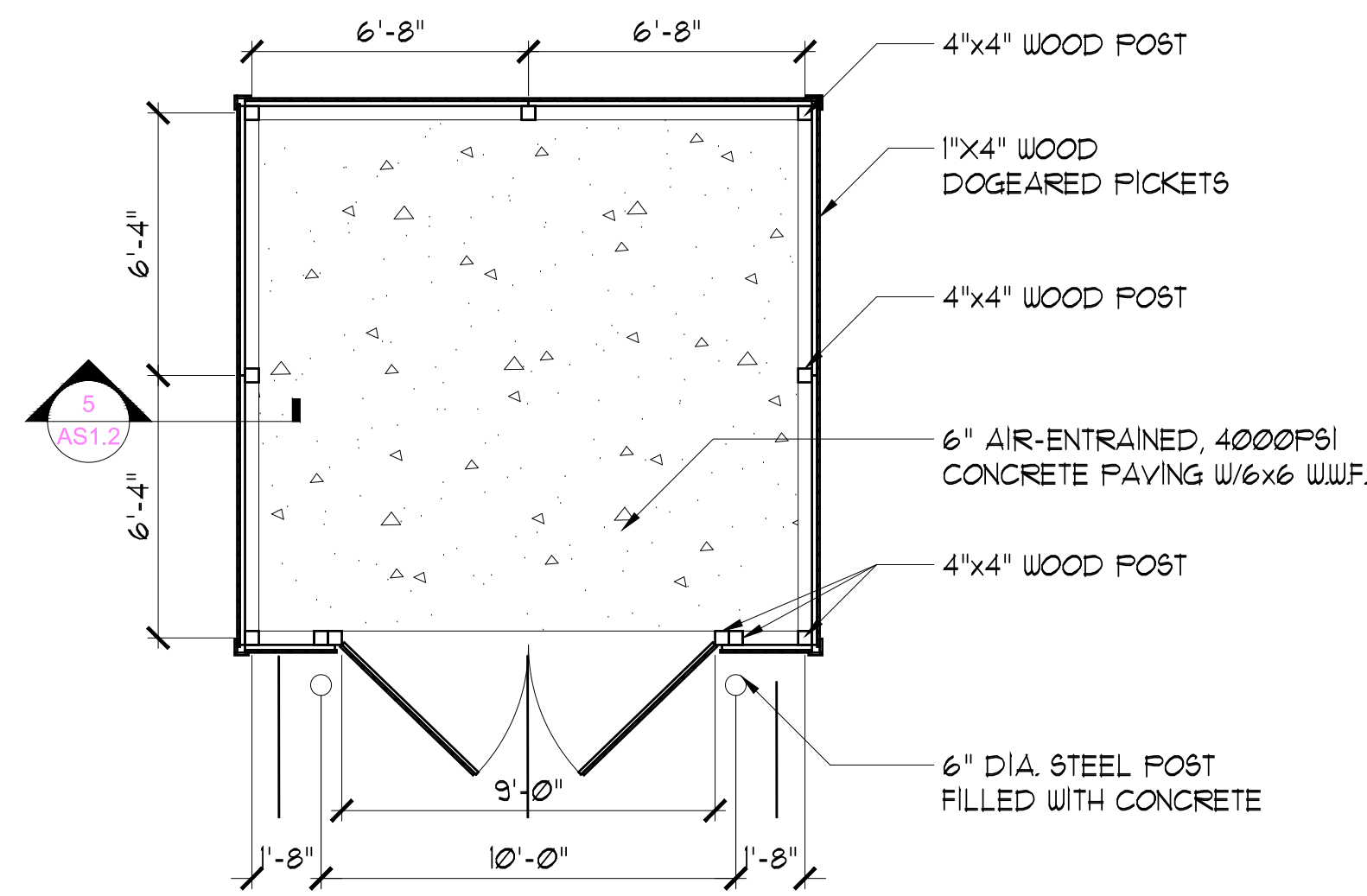
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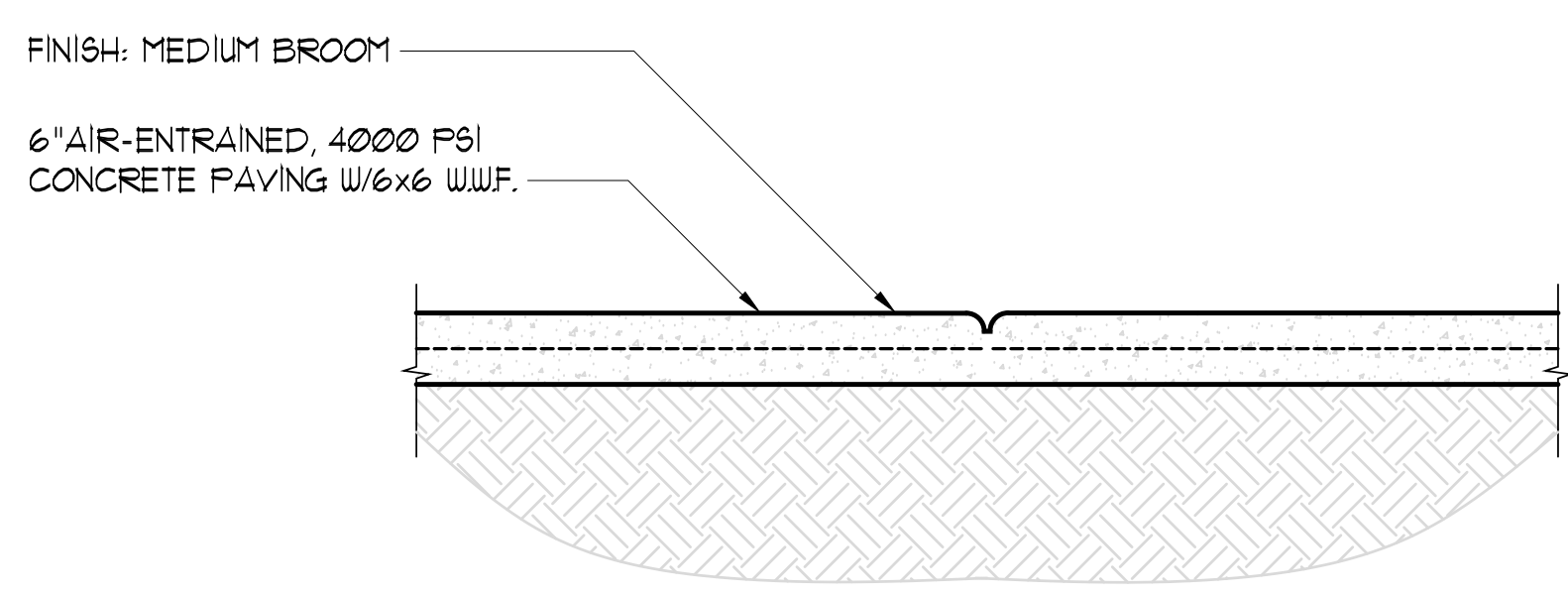
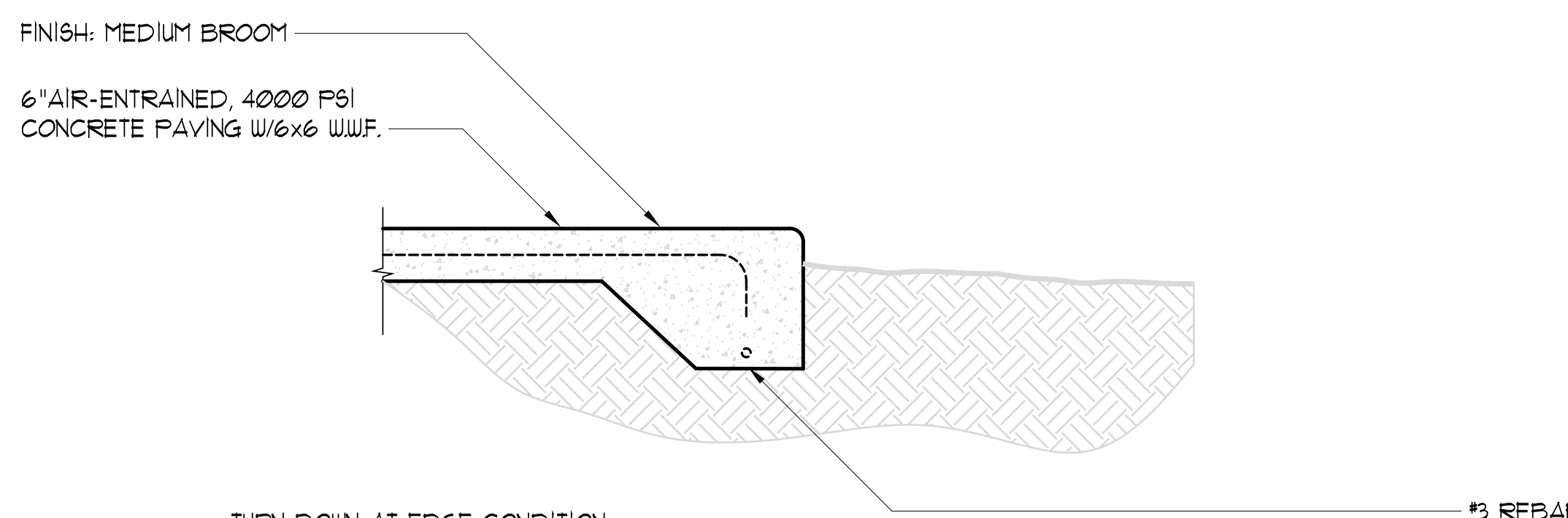
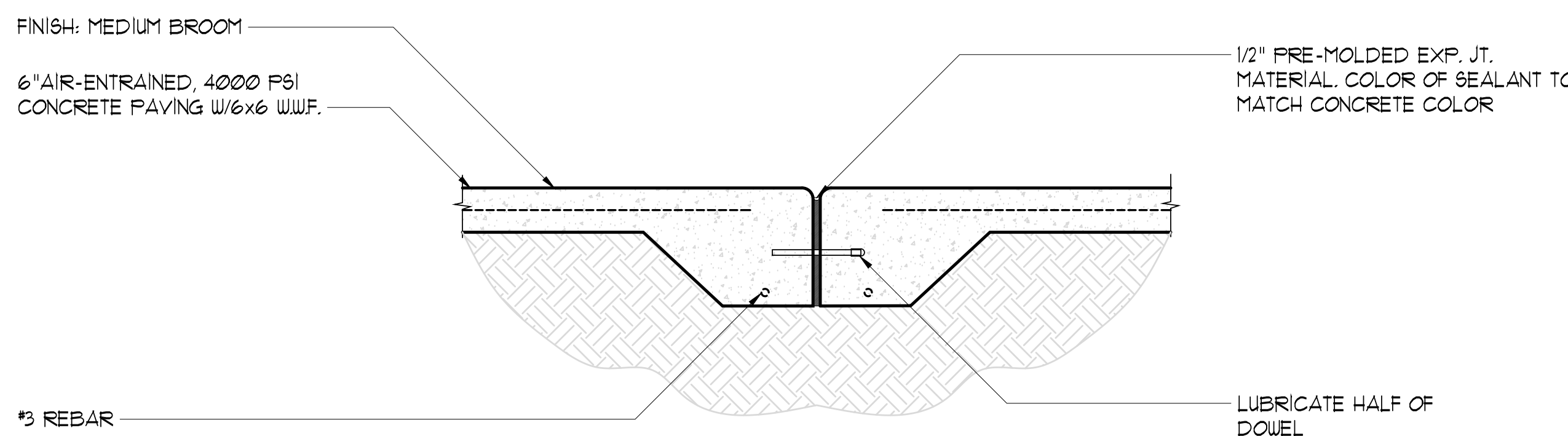
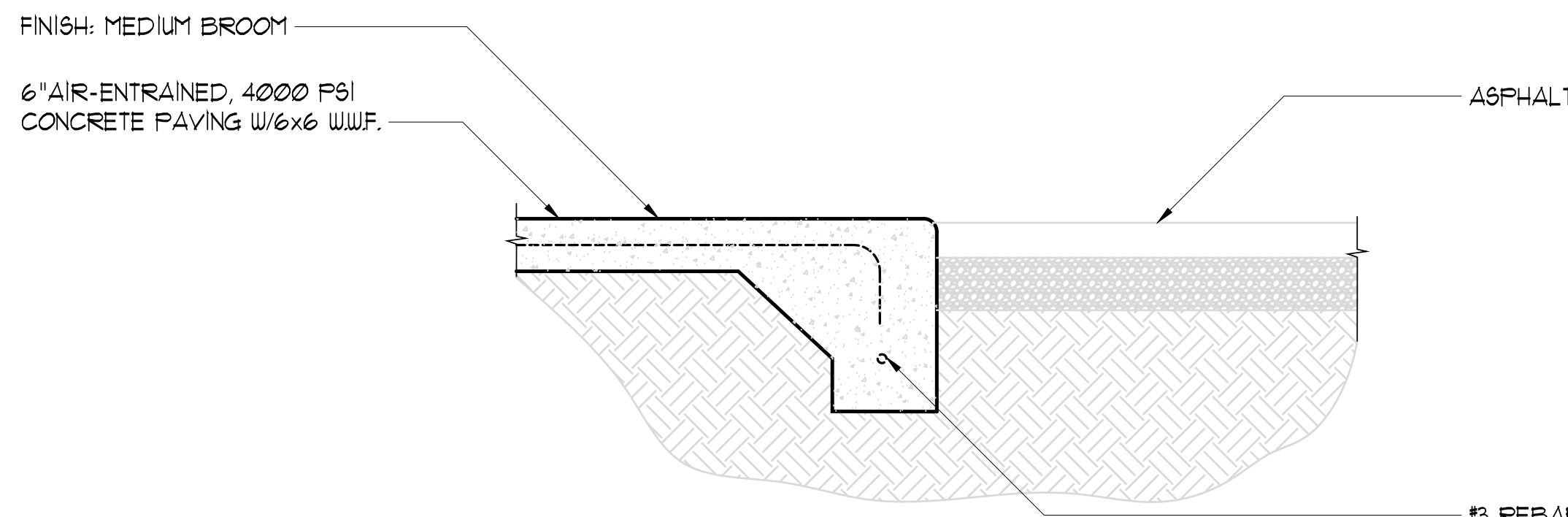
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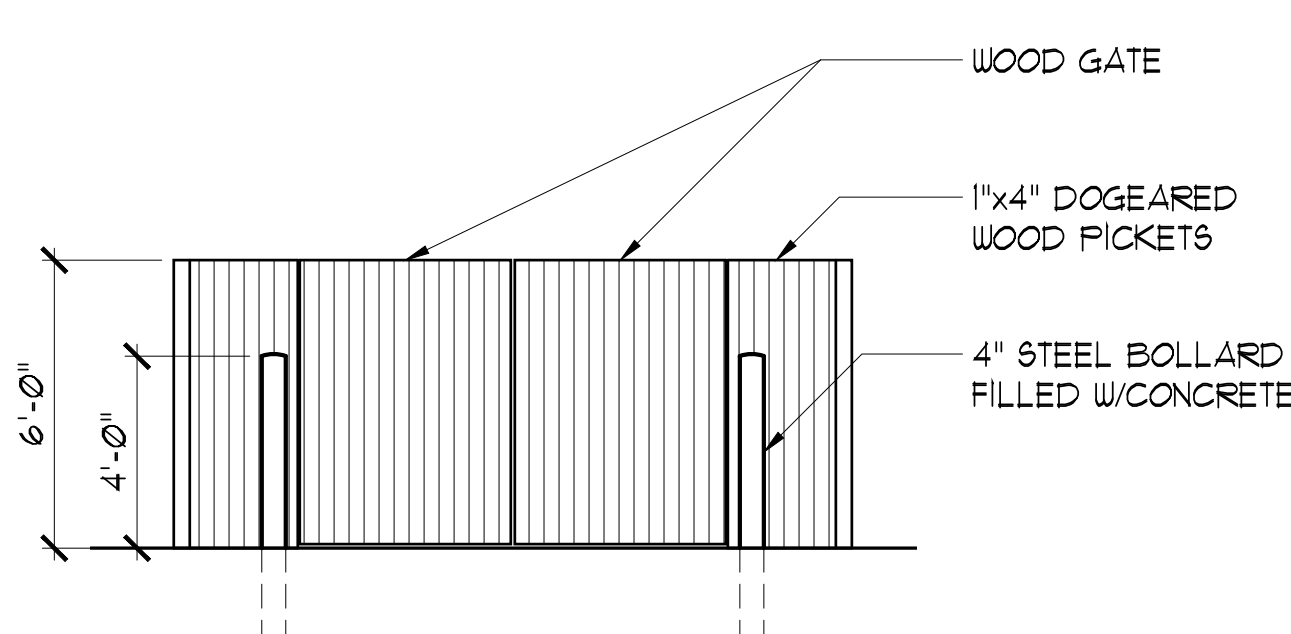


2 Site Dumpster Plan
SCALE: 1/4" = 1'-0"

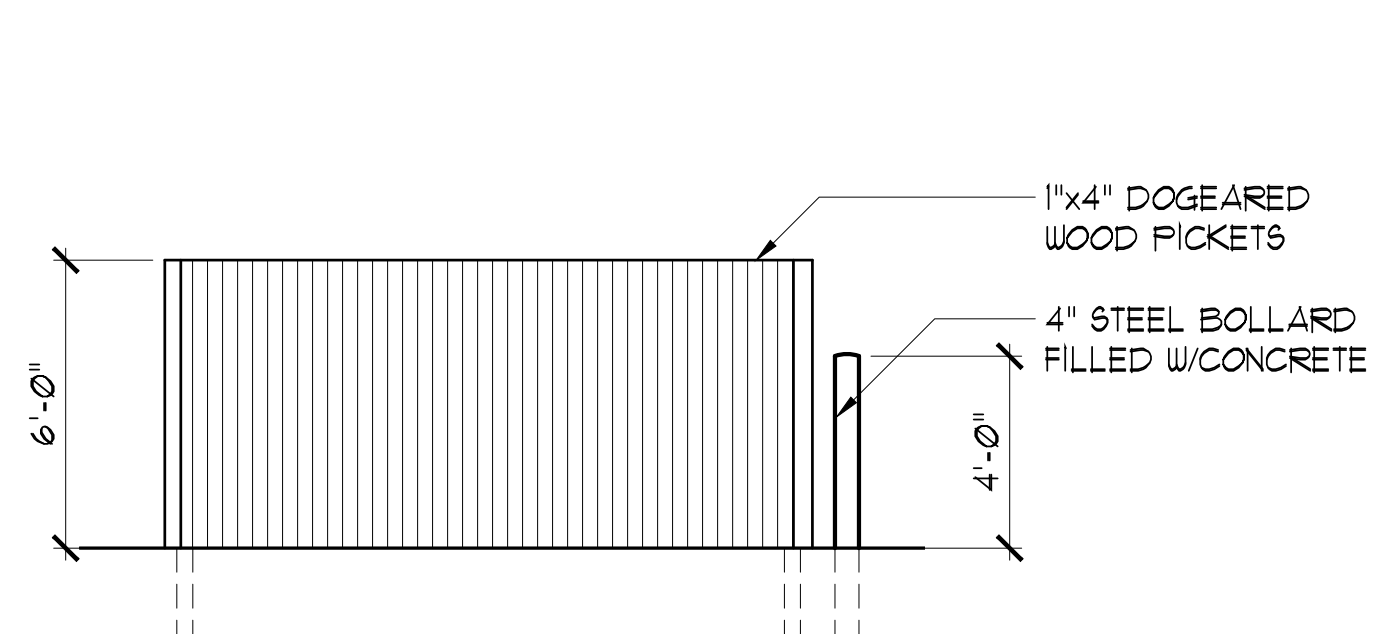


1 SITE DETAILS
SCALE: N.T.S.

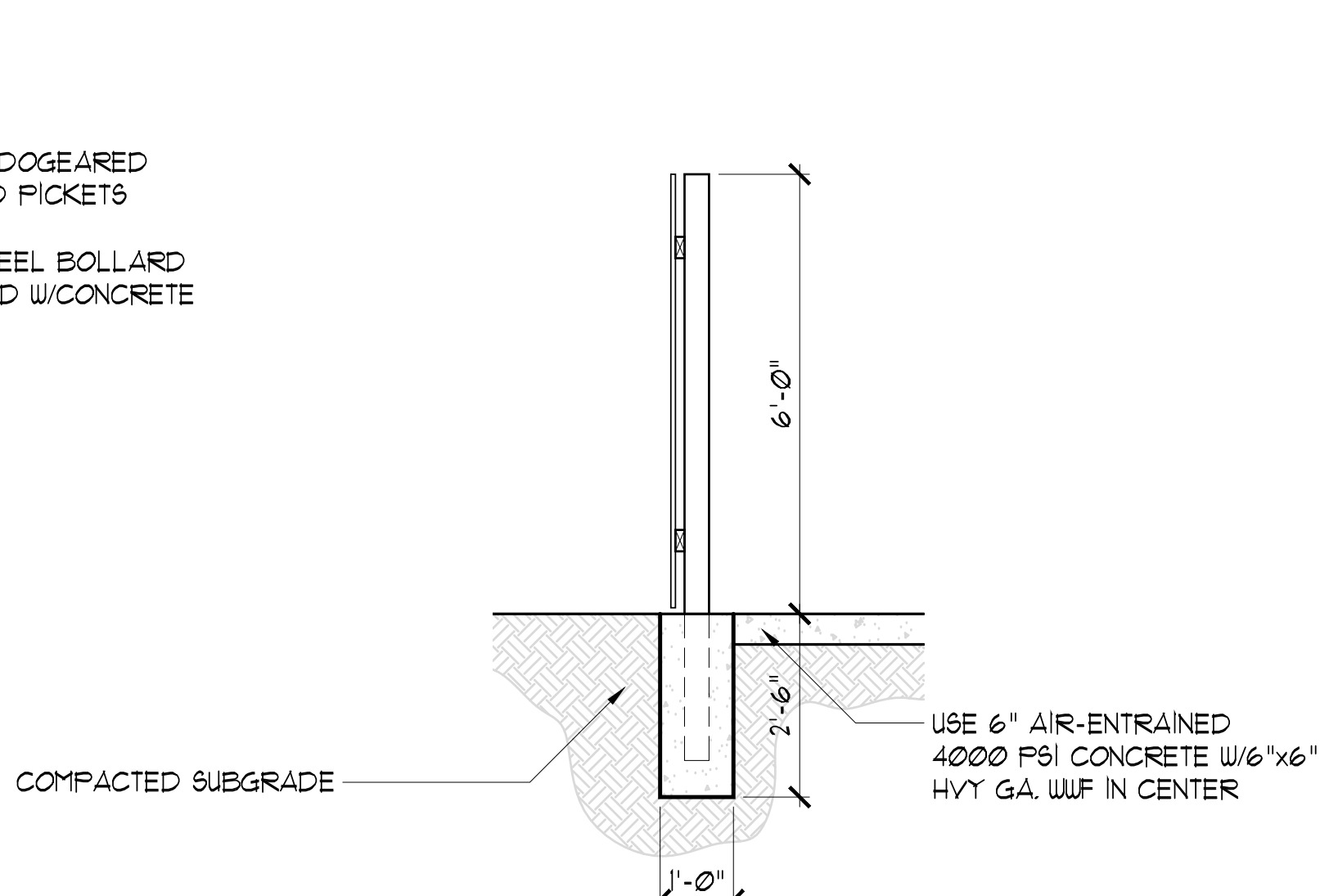
NOTES:
1. SEE CIVIL FOR SITE DIMENSIONS



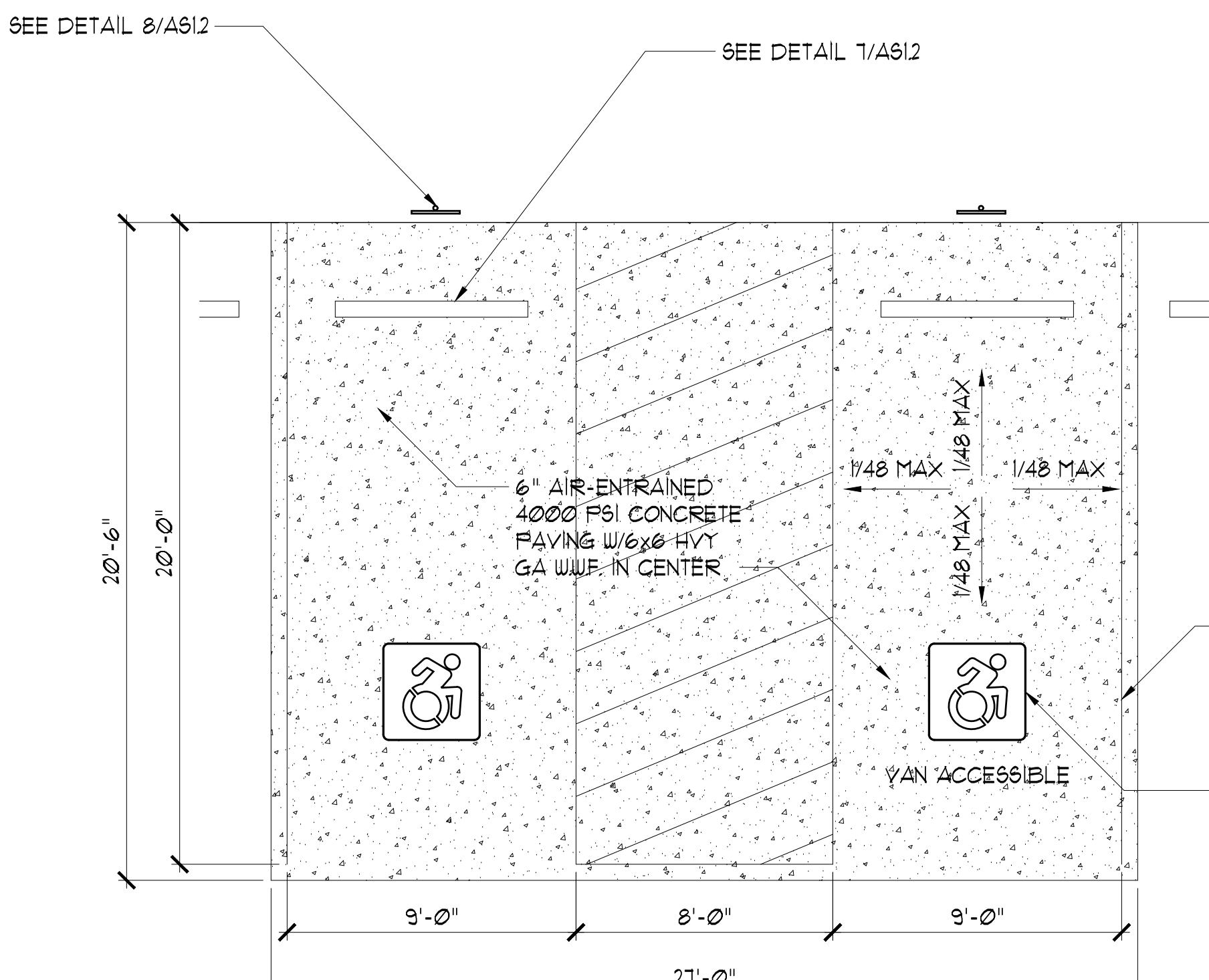
3 Site Dumpster Elevation
SCALE: 1/4" = 1'-0"



4 Site Dumpster Elevation
SCALE: 1/4" = 1'-0"

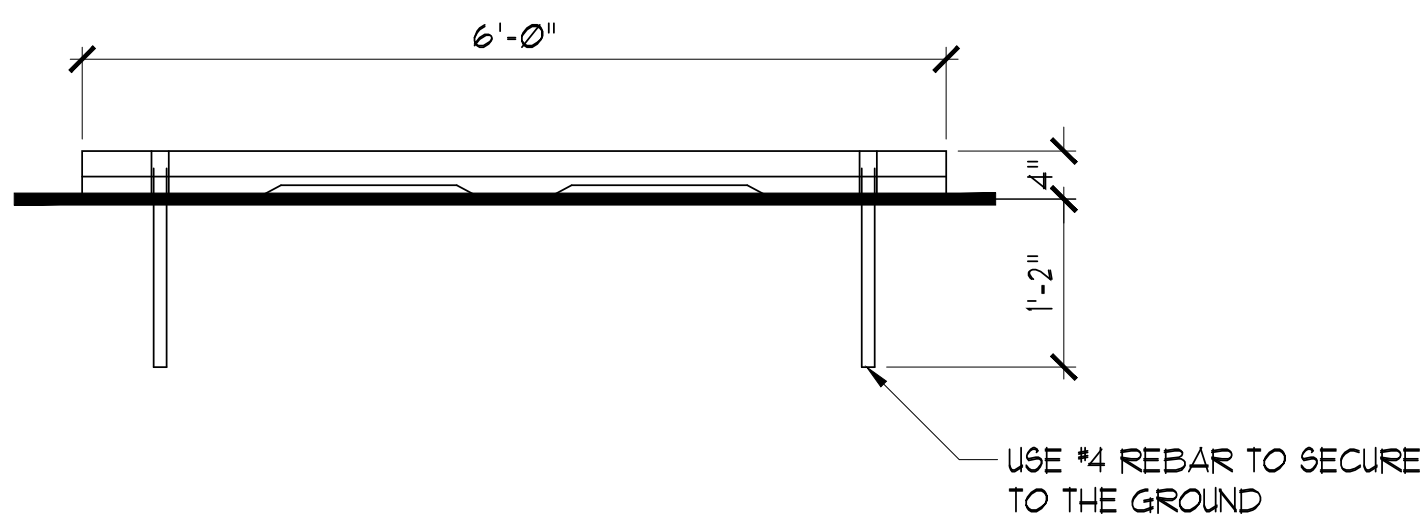


5 Site Dumpster Section
SCALE: 1/2" = 1'-0"

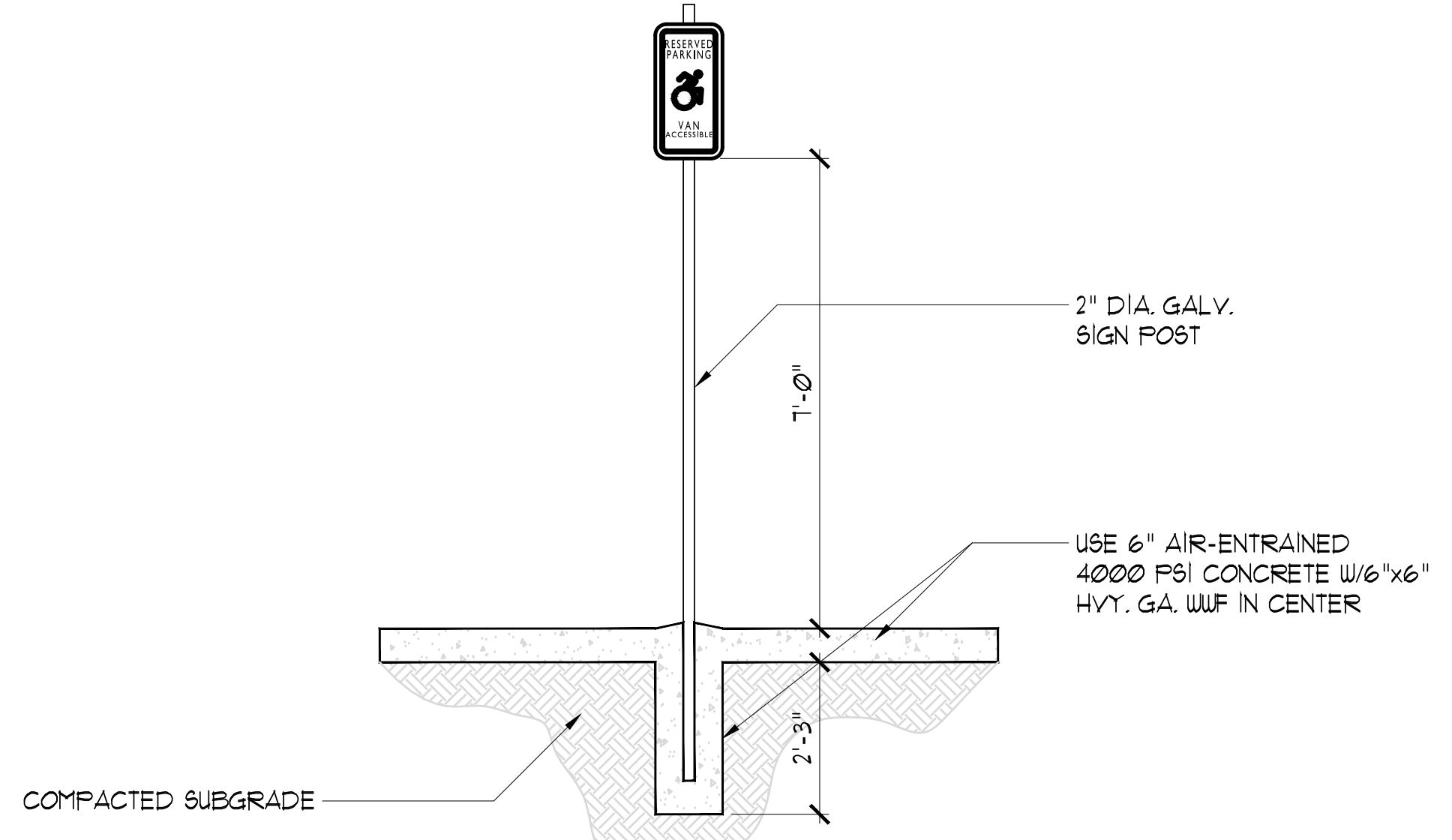


6 PARKING STALL DETAIL - ACCESSIBLE
SCALE: 3/4" = 1'-0"

NOTE: CONTRACTION AND EXPANSION JOINTS SHALL ALIGN WITH CONCRETE SIDEWALK.

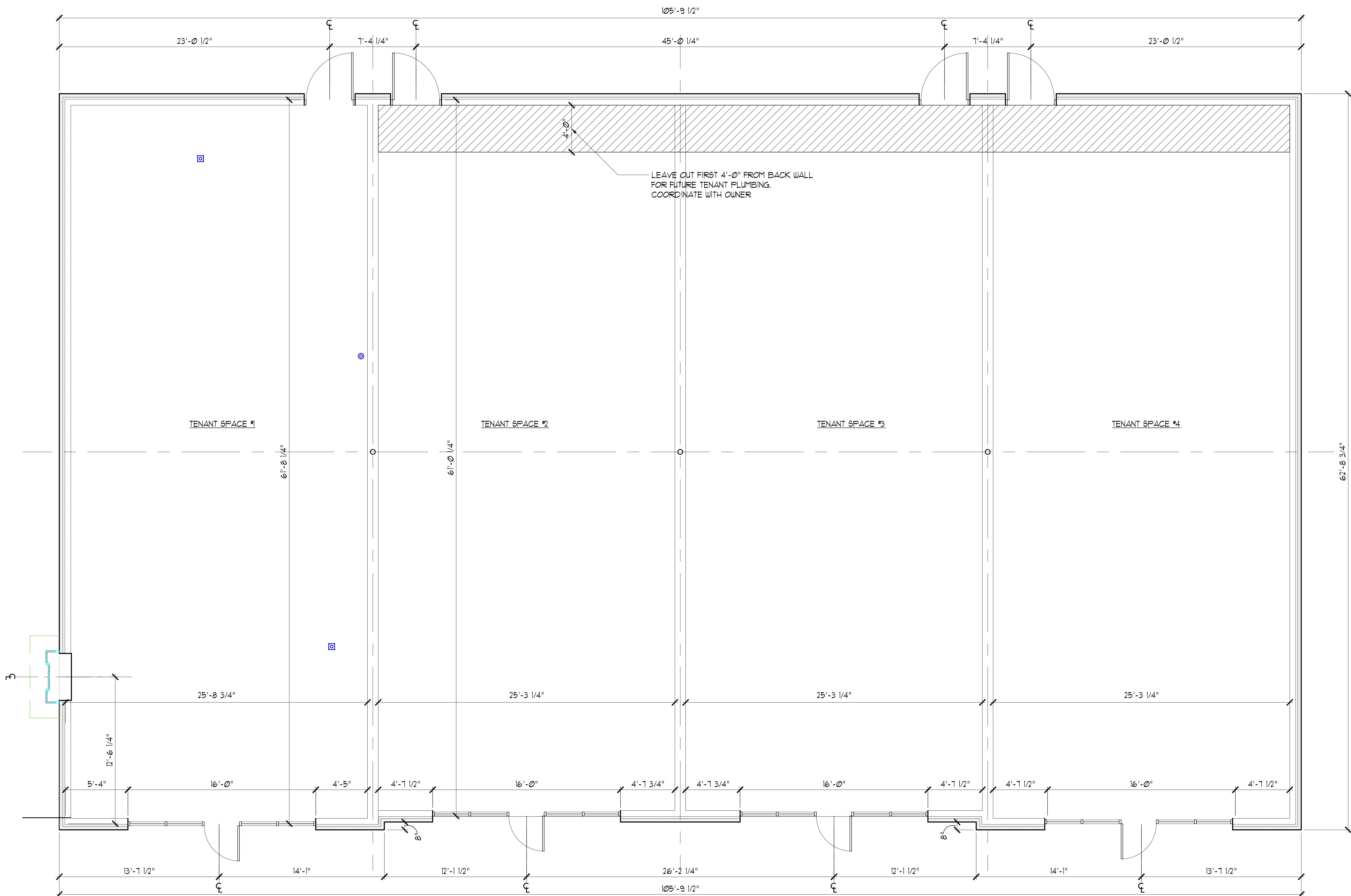


7 CONCRETE WHEEL STOP DETAIL
SCALE: 3/4" = 1'-0"



8 PARKING SIGN - ACCESSIBLE
SCALE: 3/4" = 1'-0"

- General Notes:
- EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
 - ONE-HALF INCH BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
 - 1/2" DEEP CONTRACTION JOINTS (USING 3/4" AGGREGATE) SHALL BE PLACED AT INTERVALS OF APPROXIMATELY 15'-0" OR AT A SPACING THAT MATCHES THE ADJACENT CURB.
 - FORMED CONTRACTION JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/2" RADIUS.
 - SCORED JOINTS SHALL BE 1/2" DEEP (TYP) SPACED AT 5' OR AT A SPACING MATCHING SIDEWALK WIDTH OR MATCH SCORED JOINTS OF ADJACENT CURB.
 - CONCRETE SHALL BE FINISHED BY MEANS OF A FLOAT, STEEL TOUELED AND BROOMED WITH A MEDIUM BRUSH IN A TRANSVERSE DIRECTION.
 - BROOM CONCRETE PARKING SURFACES WITH STEEL OR FIBER BROOM TO PRODUCE CORRUGATIONS BETWEEN 1/8" AND 1/8" DEEP. BROOM PERPENDICULAR TO NEAREST EDGE OF PAVEMENT. BROOM ALL AREAS OF A PANEL IN THE SAME DIRECTION. USE THE SAME TYPE AND MANUFACTURER OF BROOM FOR ALL PAVED SURFACES TO PROVIDE A CONSISTENT APPEARANCE.



1 Floor Plan
SCALE: 1/4" = 1'-0"

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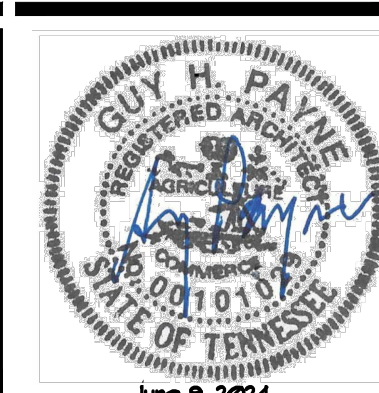
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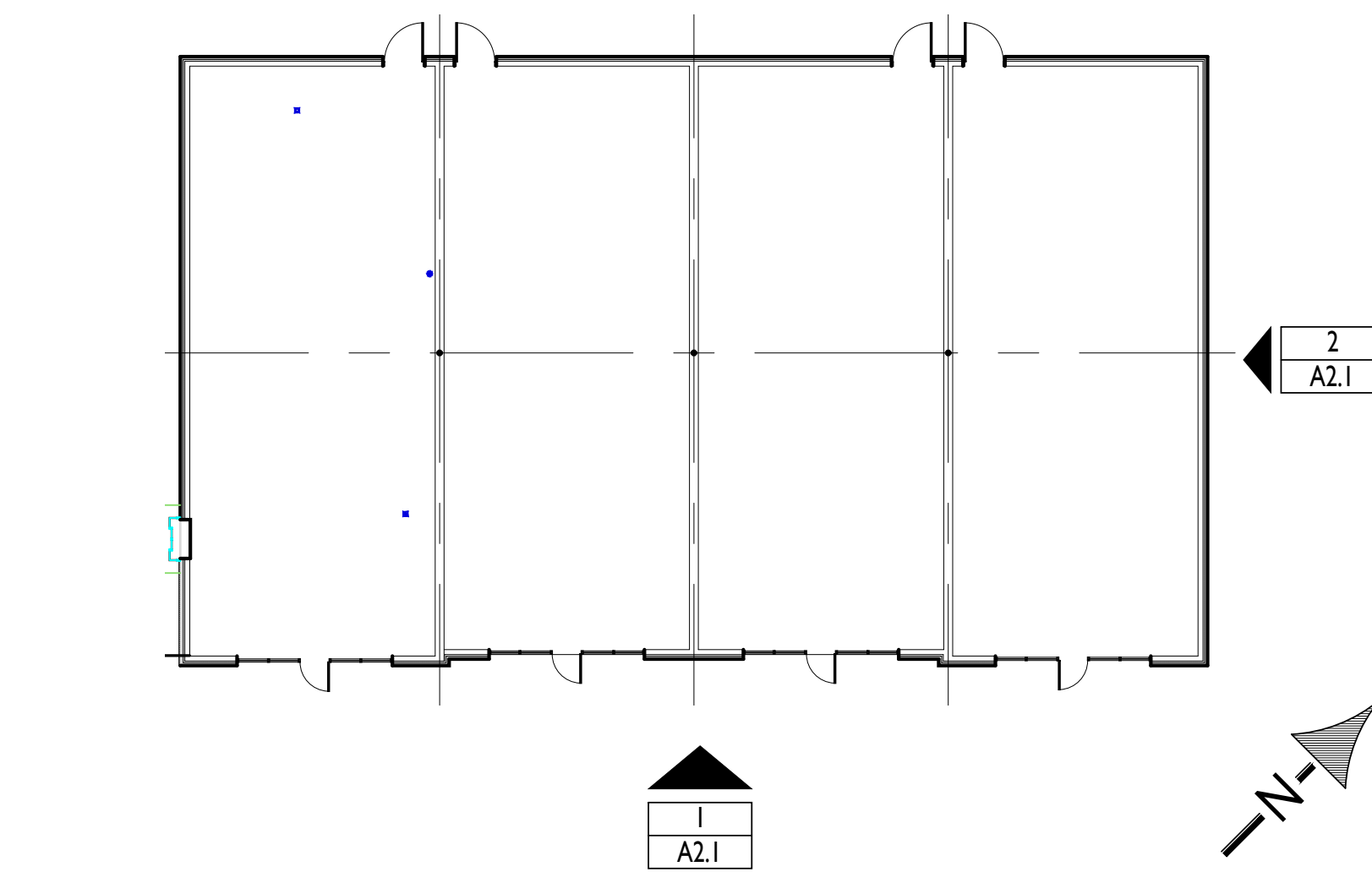
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STATE OF TENNESSEE
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June 9, 2024

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KEY PLAN - N.T.S.

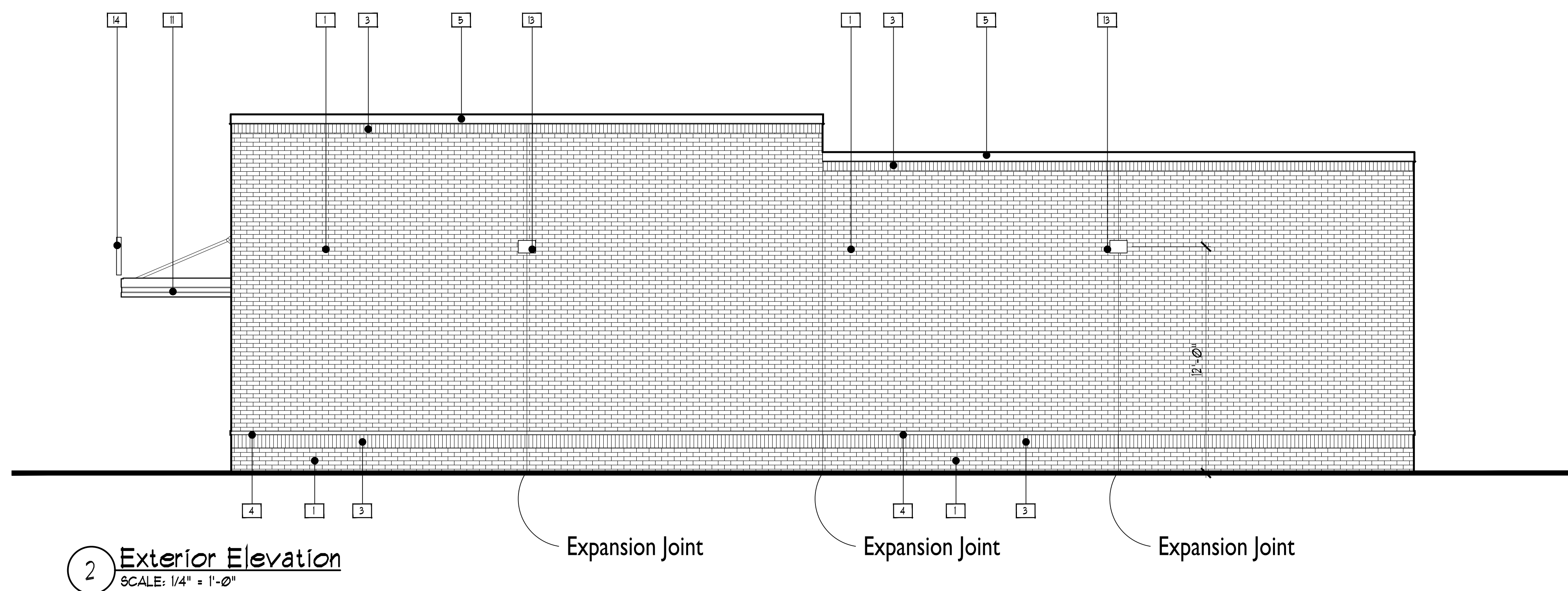


Legend of Exterior Finishes

- | | |
|----|--|
| 1 | BRICK VENEER TYPE 1 - COLOR TBD |
| 2 | BRICK VENEER TYPE 2 - COLOR TBD |
| 3 | BRICK SOLDIER |
| 4 | BRICK DETAIL - SEE 1/A4.1 |
| 5 | METAL PARAPET |
| 6 | ALUMINUM STOREFRONT |
| 7 | ALUMINUM DOOR |
| 8 | ALUMINUM TRANSACTION WINDOW - SEE DETAIL A1/A6.0 |
| 9 | HOLLOW METAL DOOR |
| 10 | PRE-FABRICATED METAL DOWNSPOUT |
| 11 | METAL CANOPY |
| 12 | PRE-FABRICATED METAL GUTTER |
| 13 | EXTERIOR LIGHTING - SEE ELECTRICAL |
| 14 | EXTERIOR SIGNAGE - SEE ELECTRICAL FOR POWER REQUIREMENTS |

NOTE

COORDINATE ELECTRICAL WITH OWNER FOR SIGNAGE
ELECTRICAL SOURCE

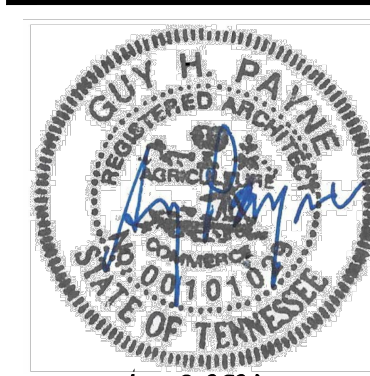


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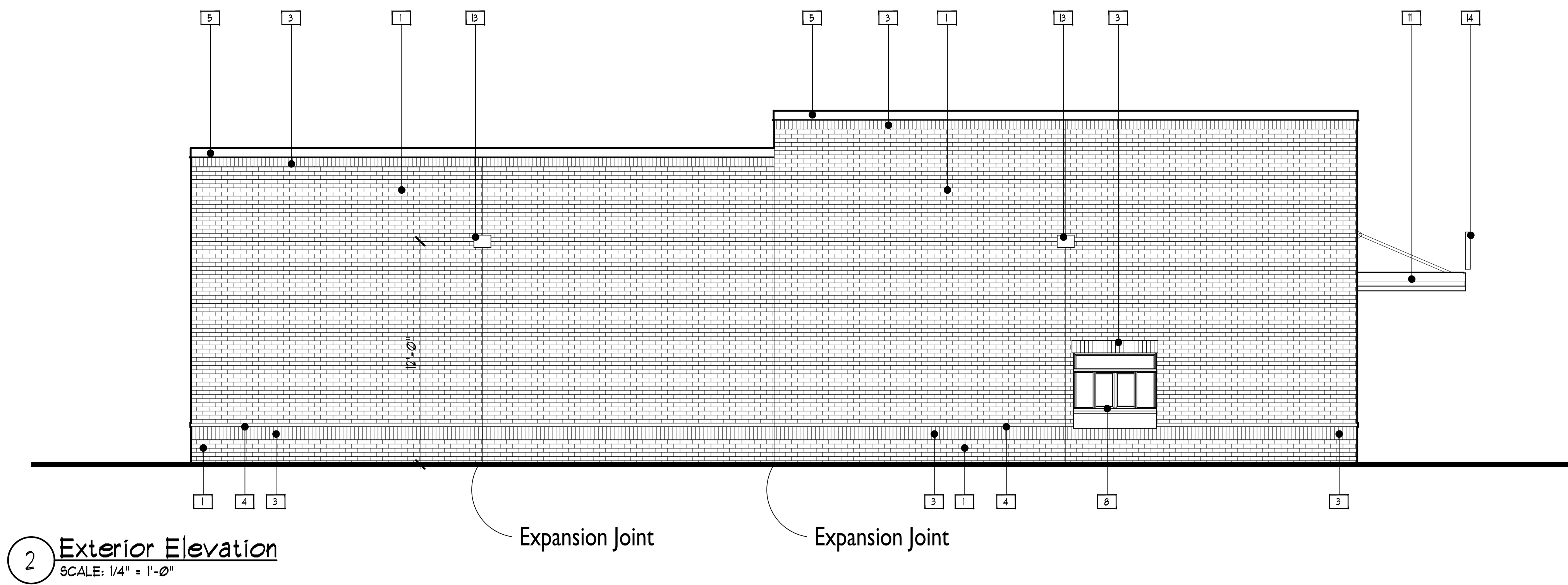
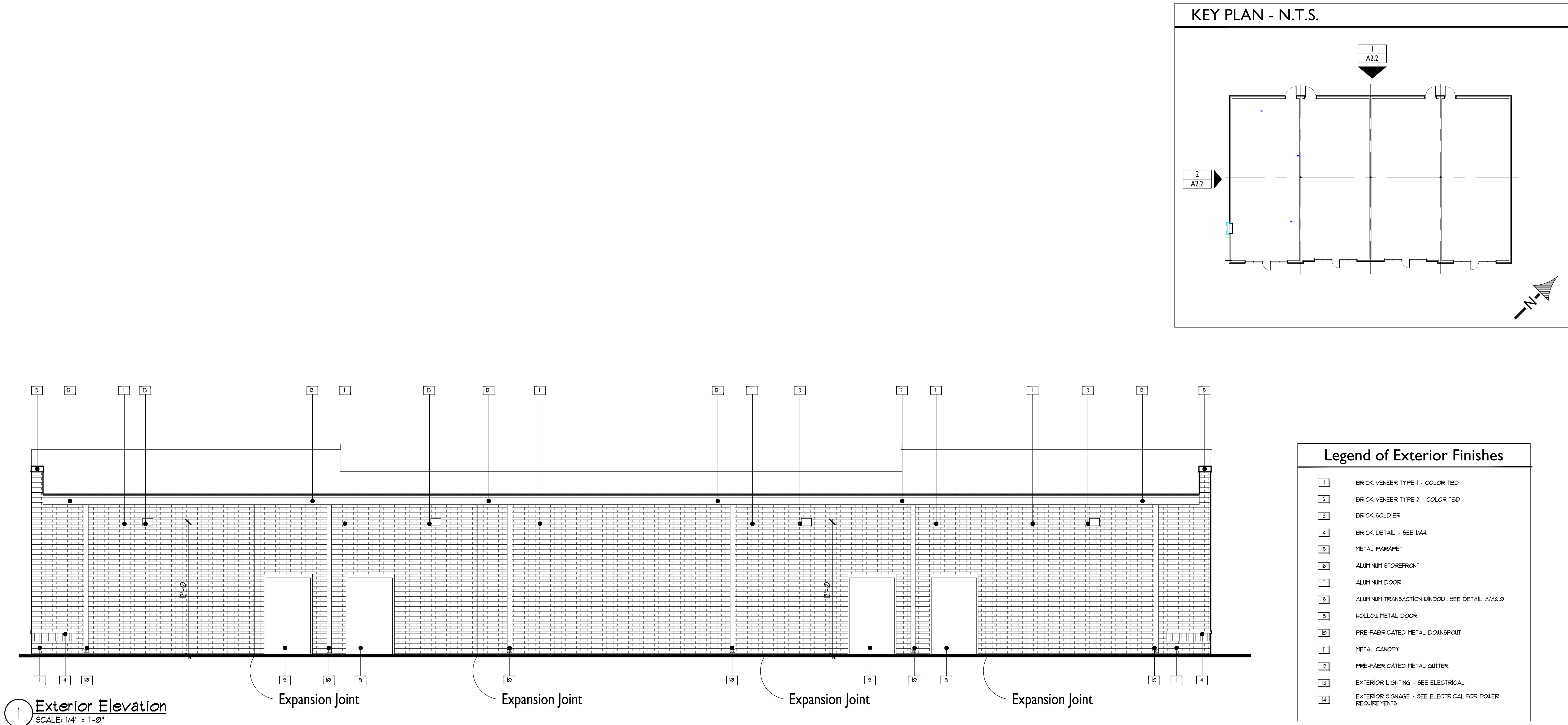
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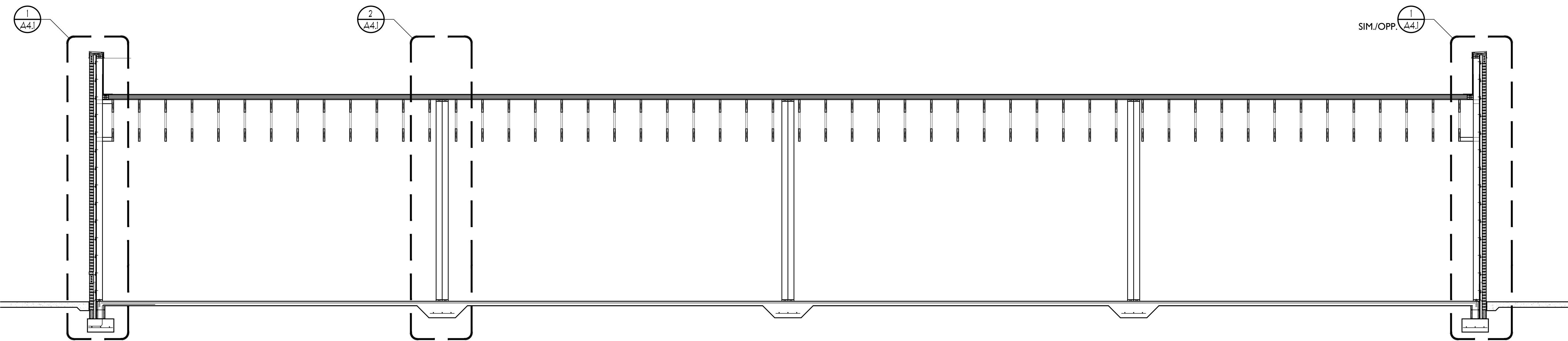
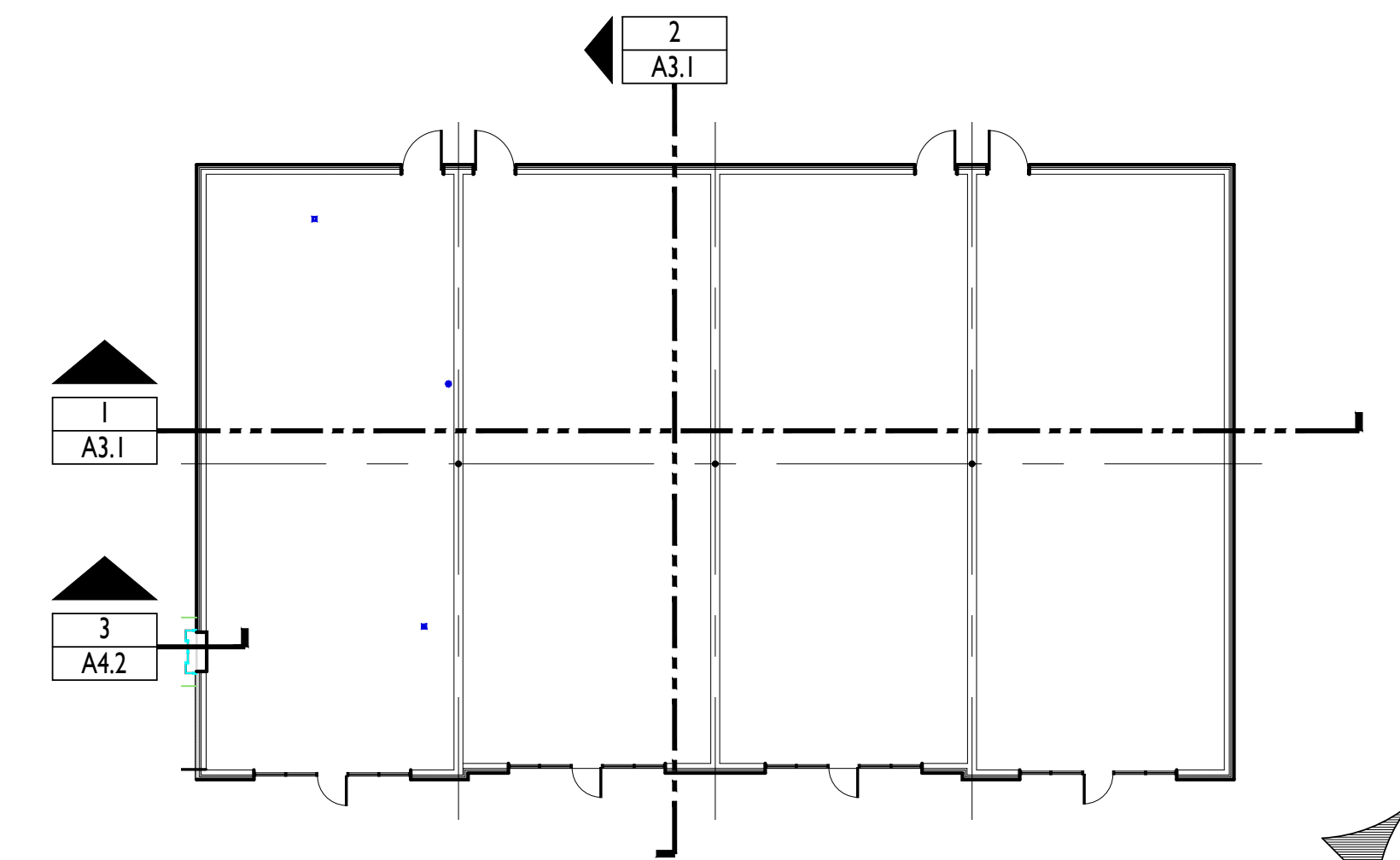
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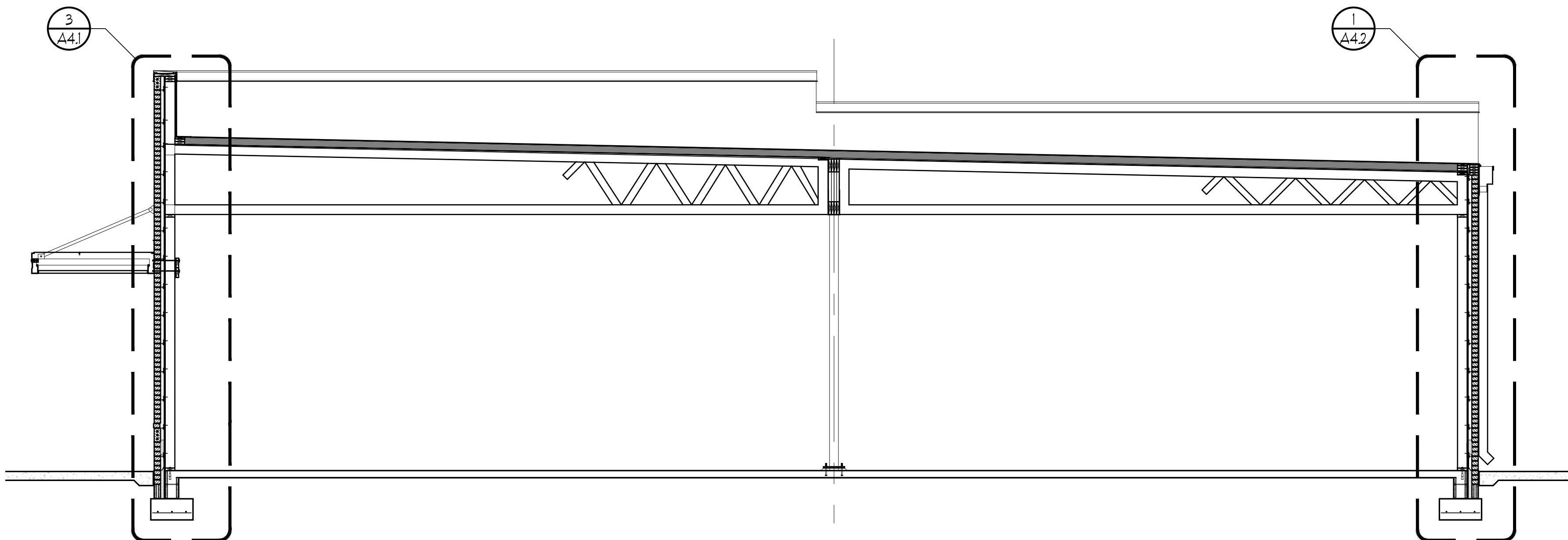
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June 9, 2024



KEY PLAN - N.T.S.



1 Building Section
SCALE: 1/4" = 1'-0"



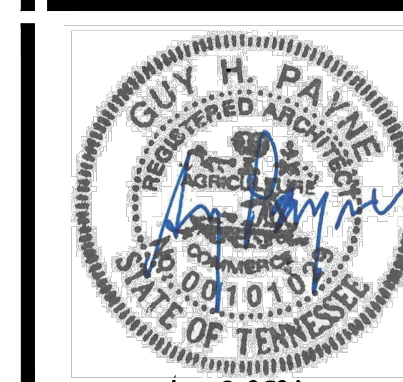
2 Building Section
SCALE: 1/4" = 1'-0"

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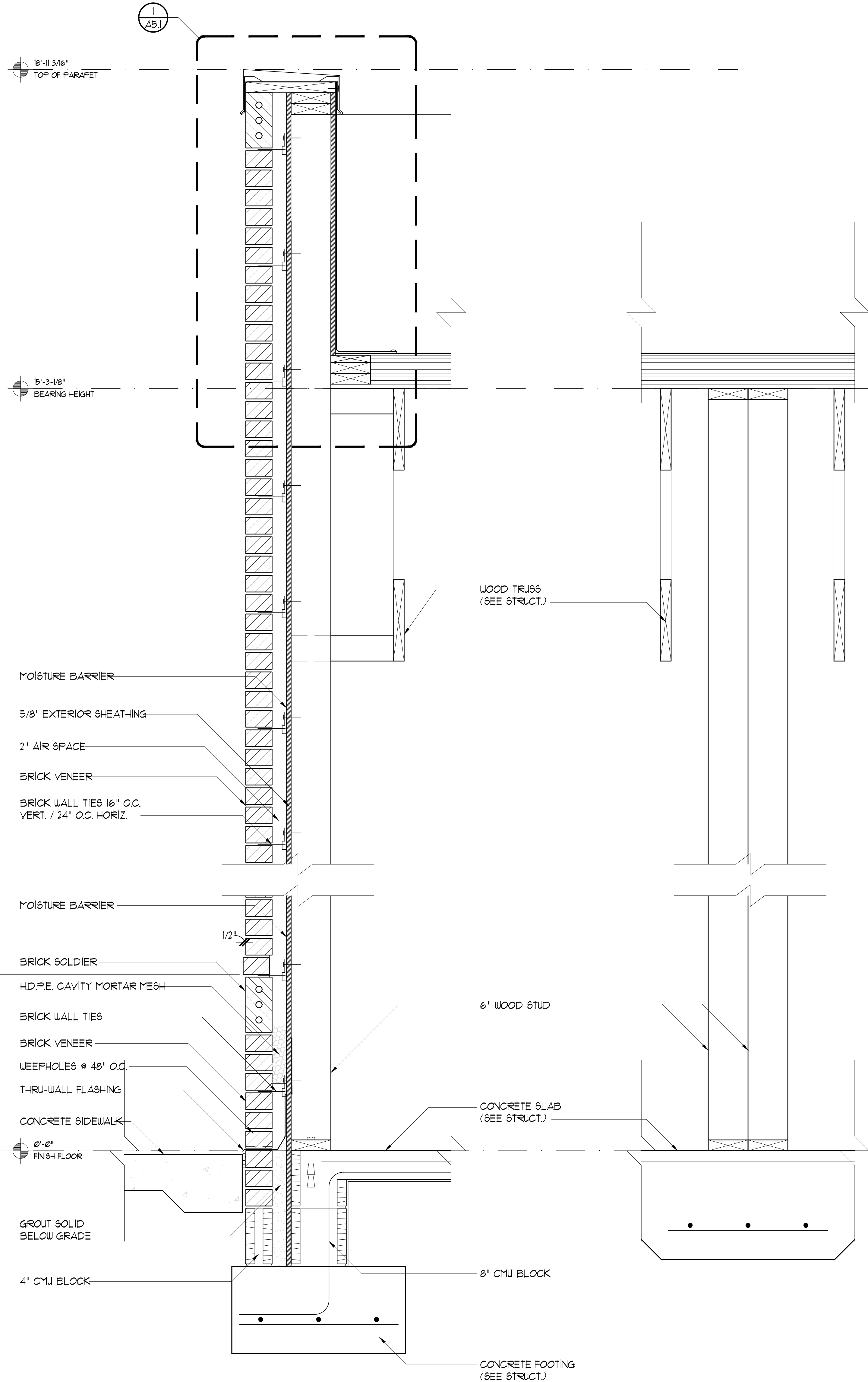
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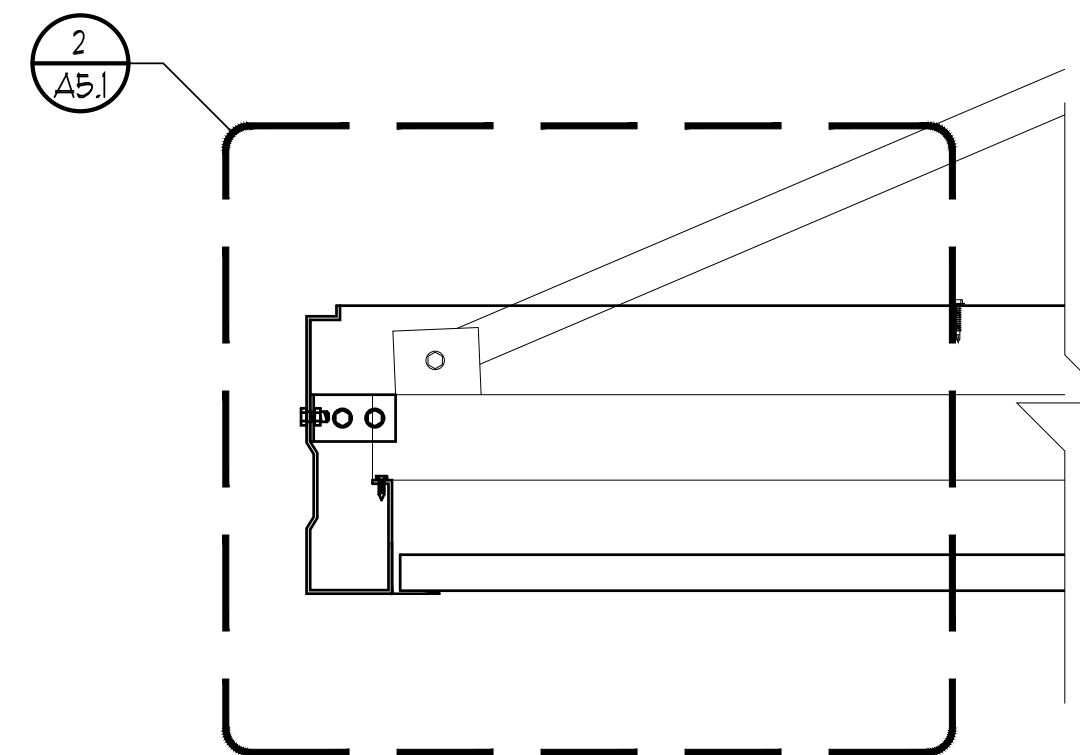
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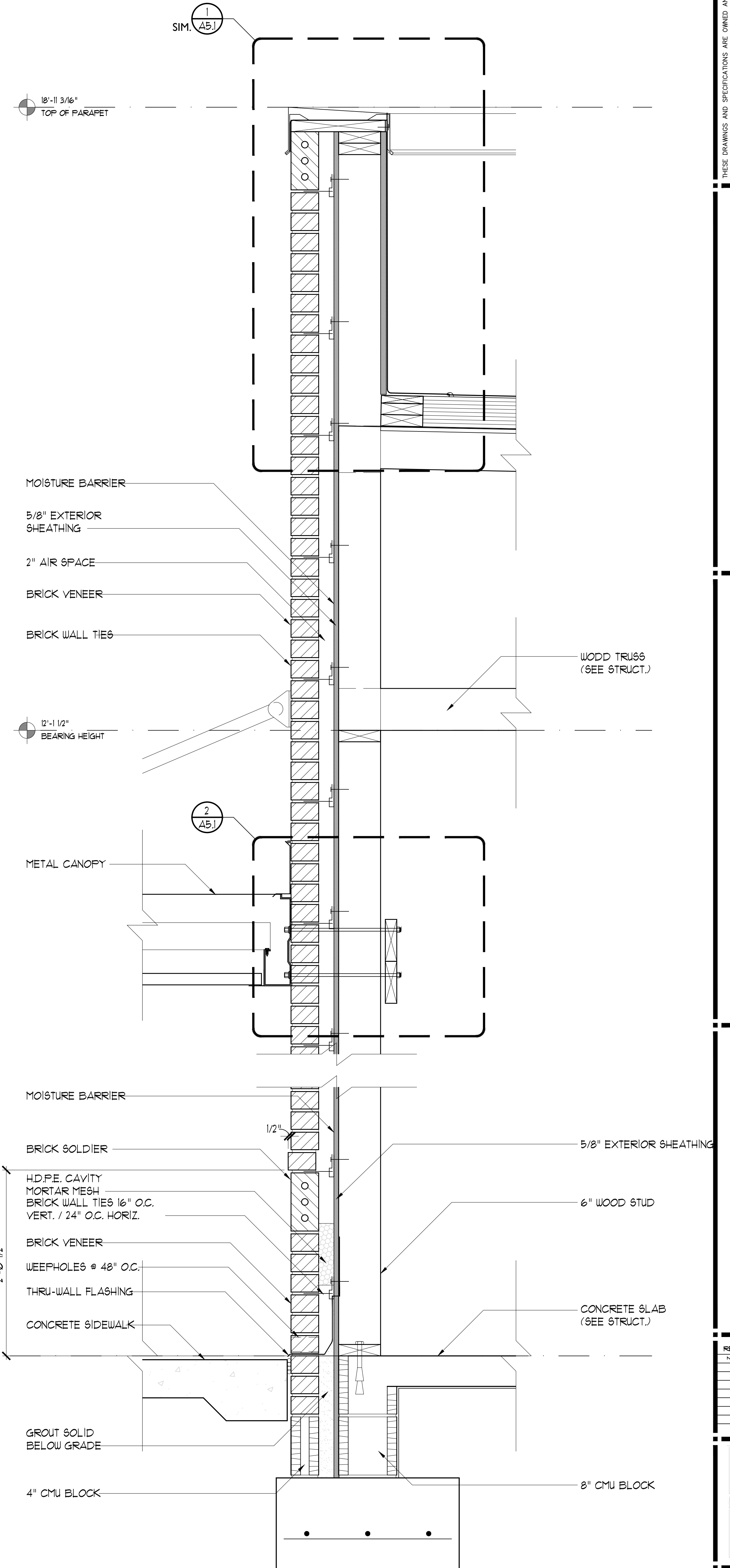
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SCALE
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SHEET NUMBER
A3.1
OF
DATE OF ORIGINAL ISSUE
June 9, 2024



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



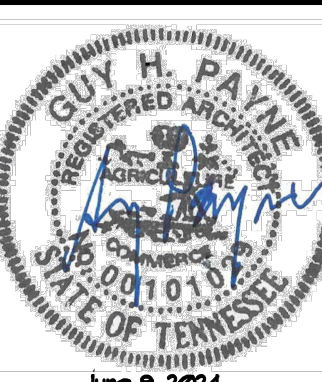
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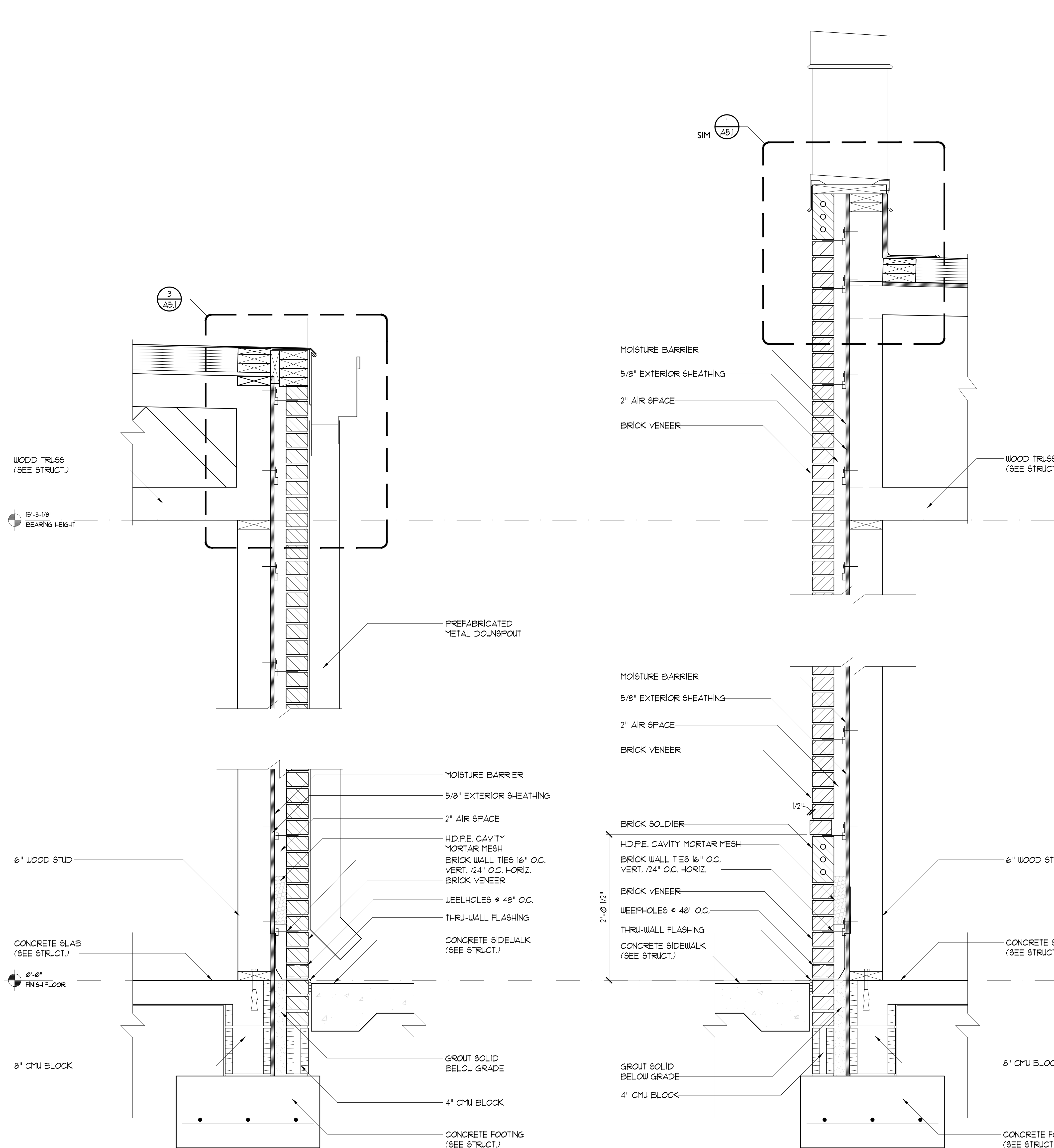
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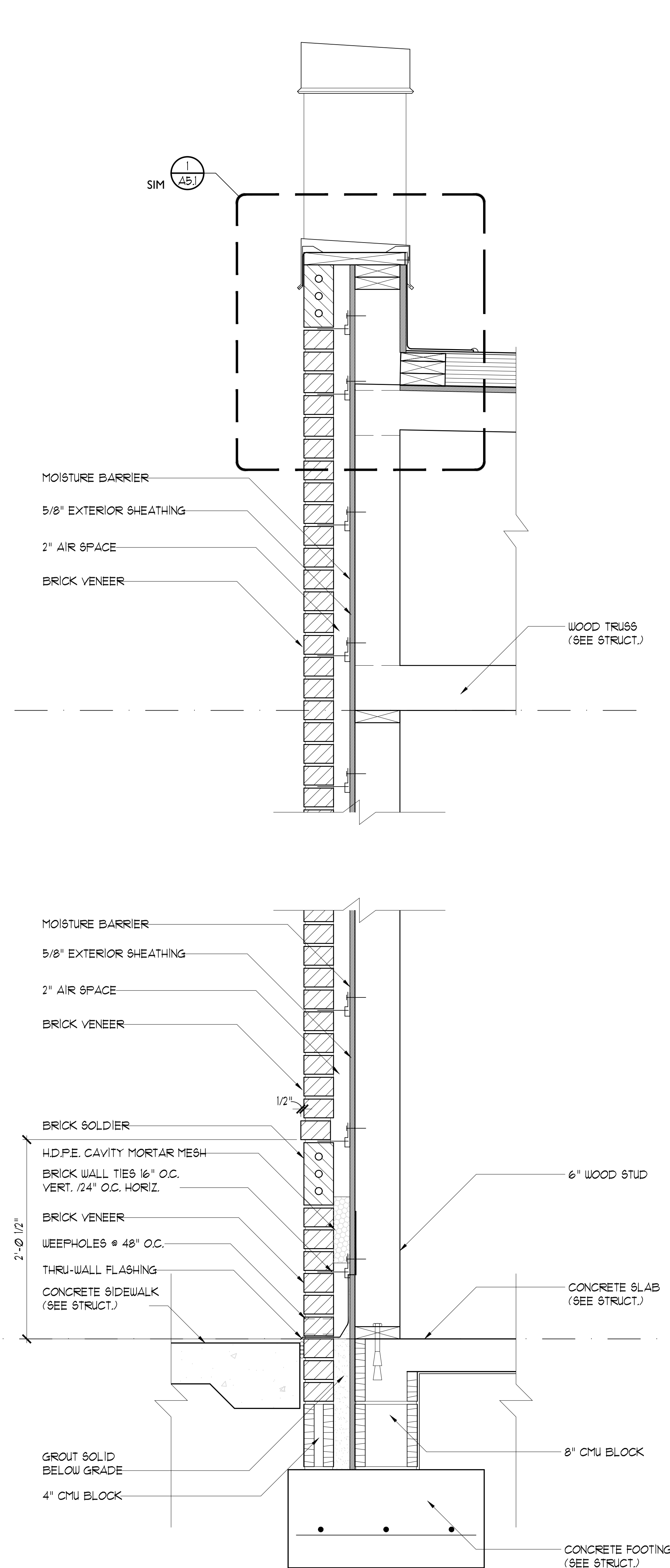
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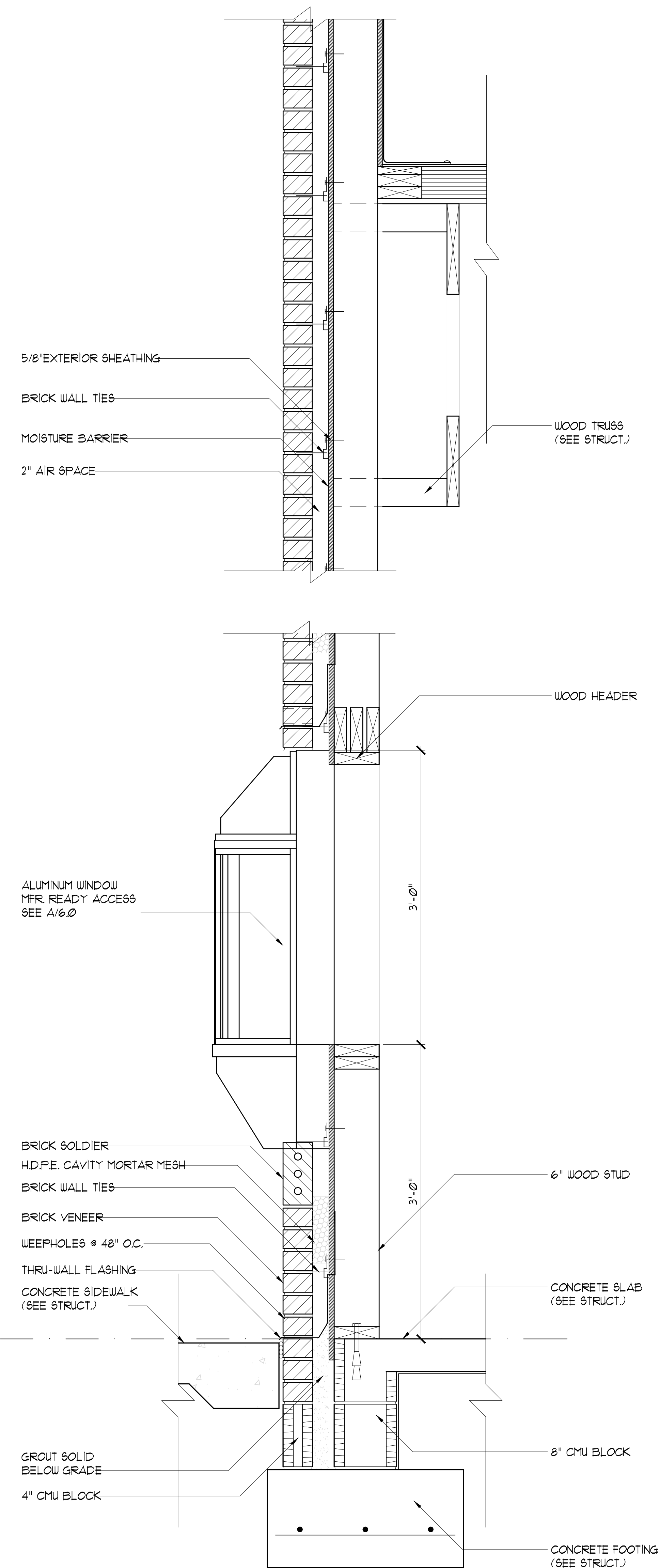
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4202
SCALE
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DATE OF ORIGINAL ISSUE
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1 Wall Section
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2 Wall Section
SCALE: 1-1/2" = 1'-0"



3 Wall Section
SCALE: 1-1/2" = 1'-0"

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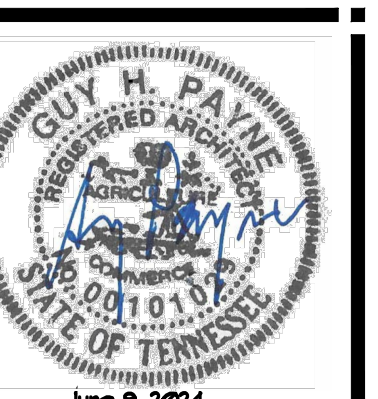
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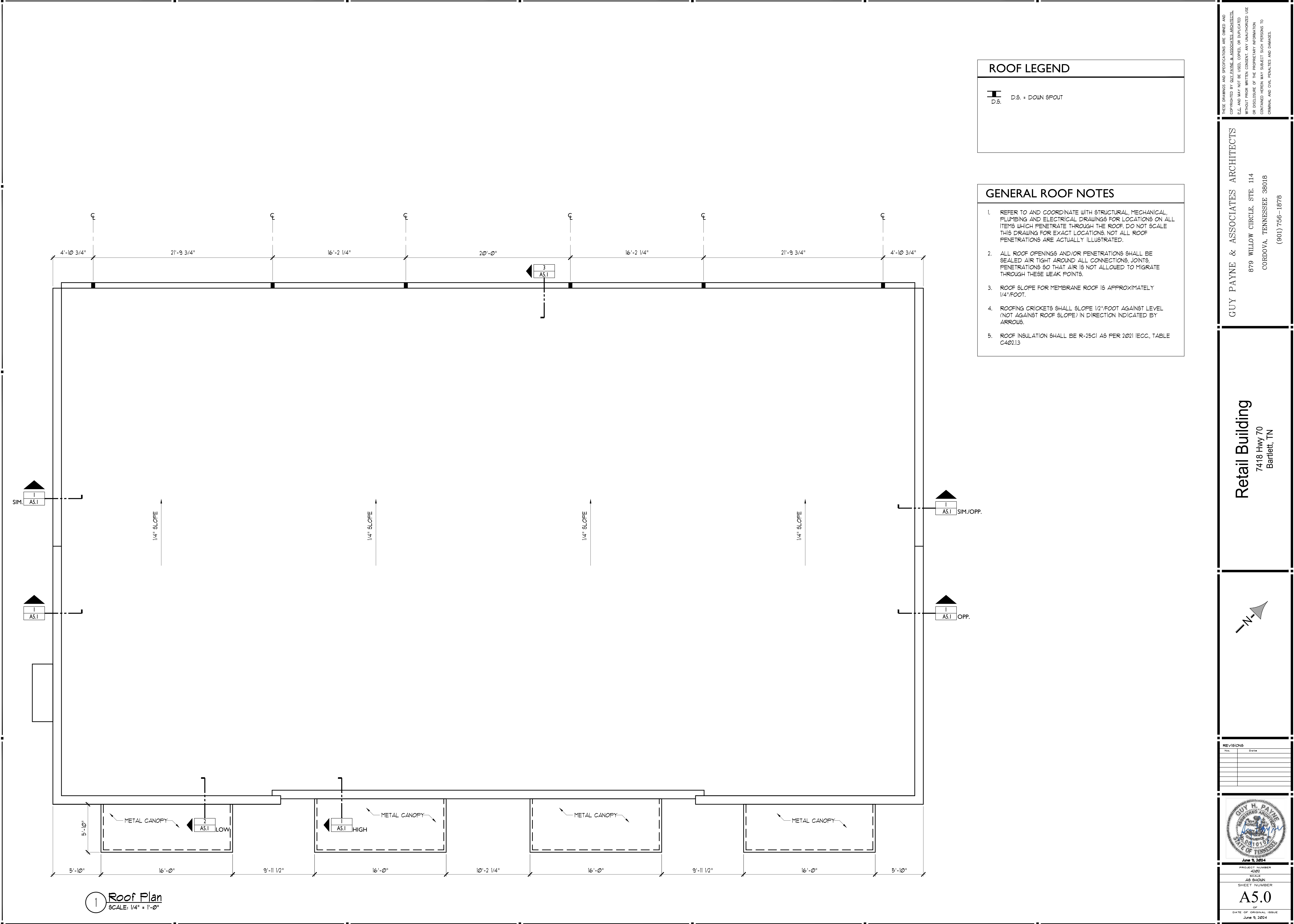
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SHEET NUMBER
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ROOF LEGEND

 D.S. = DOWN SPOUT

GENERAL ROOF NOTES

- REFER TO AND COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATIONS ON ALL ITEMS WHICH PENETRATE THROUGH THE ROOF. DO NOT SCALE THIS DRAWING FOR EXACT LOCATIONS. NOT ALL ROOF PENETRATIONS ARE ACTUALLY ILLUSTRATED.
- ALL ROOF OPENINGS AND/OR PENETRATIONS SHALL BE SEALED AIR TIGHT AROUND ALL CONNECTIONS, JOINTS, PENETRATIONS SO THAT AIR IS NOT ALLOWED TO MIGRATE THROUGH THESE WEAK POINTS.
- ROOF SLOPE FOR MEMBRANE ROOF IS APPROXIMATELY 1/4"/FOOT.
- ROOFING CRICKETS SHALL SLOPE 1/2"/FOOT AGAINST LEVEL (NOT AGAINST ROOF SLOPE) IN DIRECTION INDICATED BY ARROWS.
- ROOF INSULATION SHALL BE R-25(C) AS PER 2021 IECC, TABLE C402.1.3

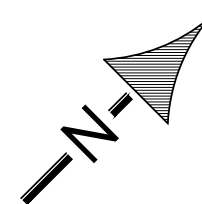
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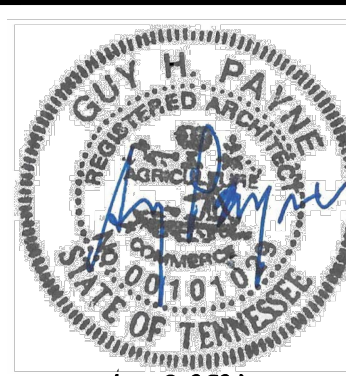
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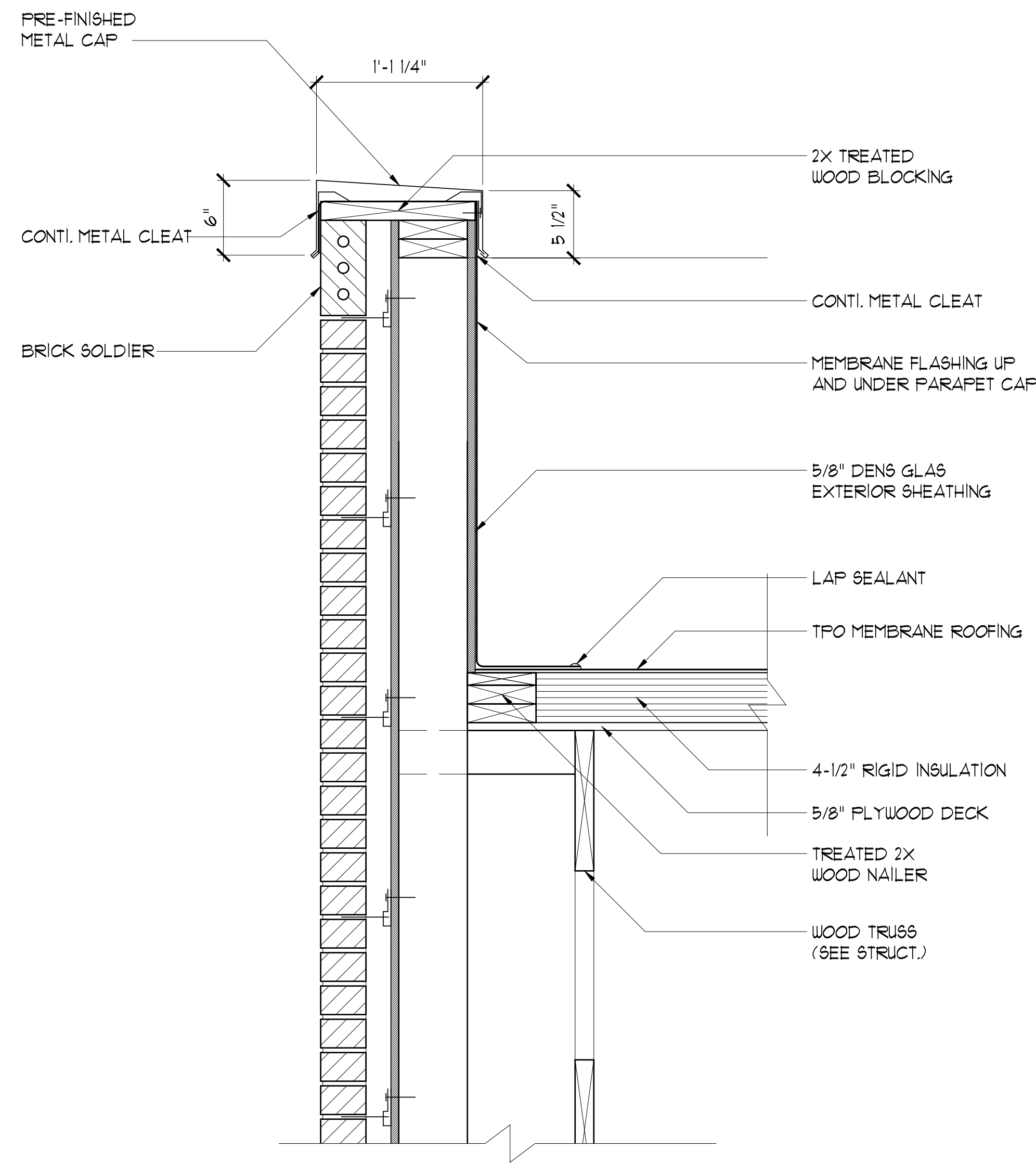
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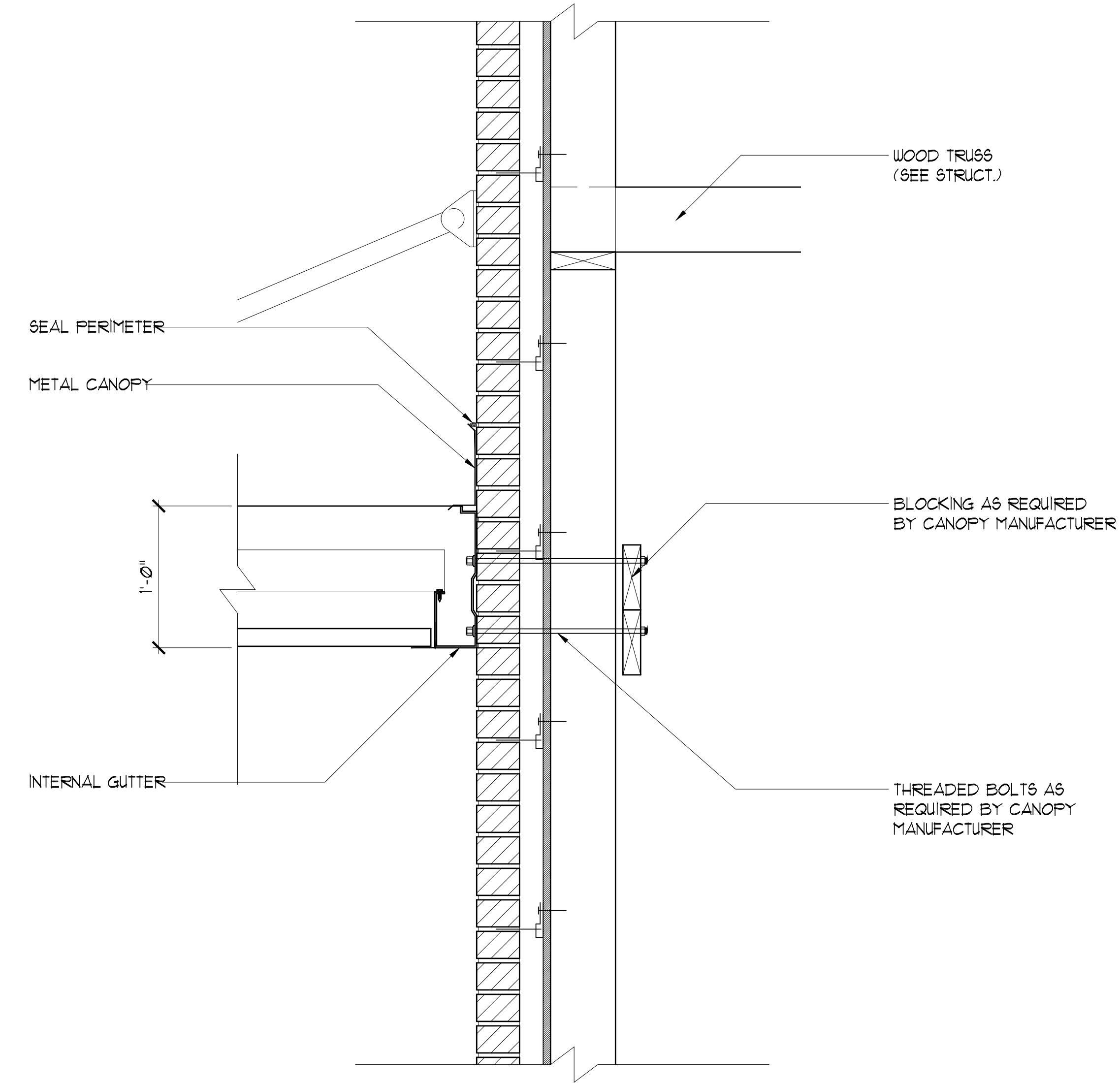
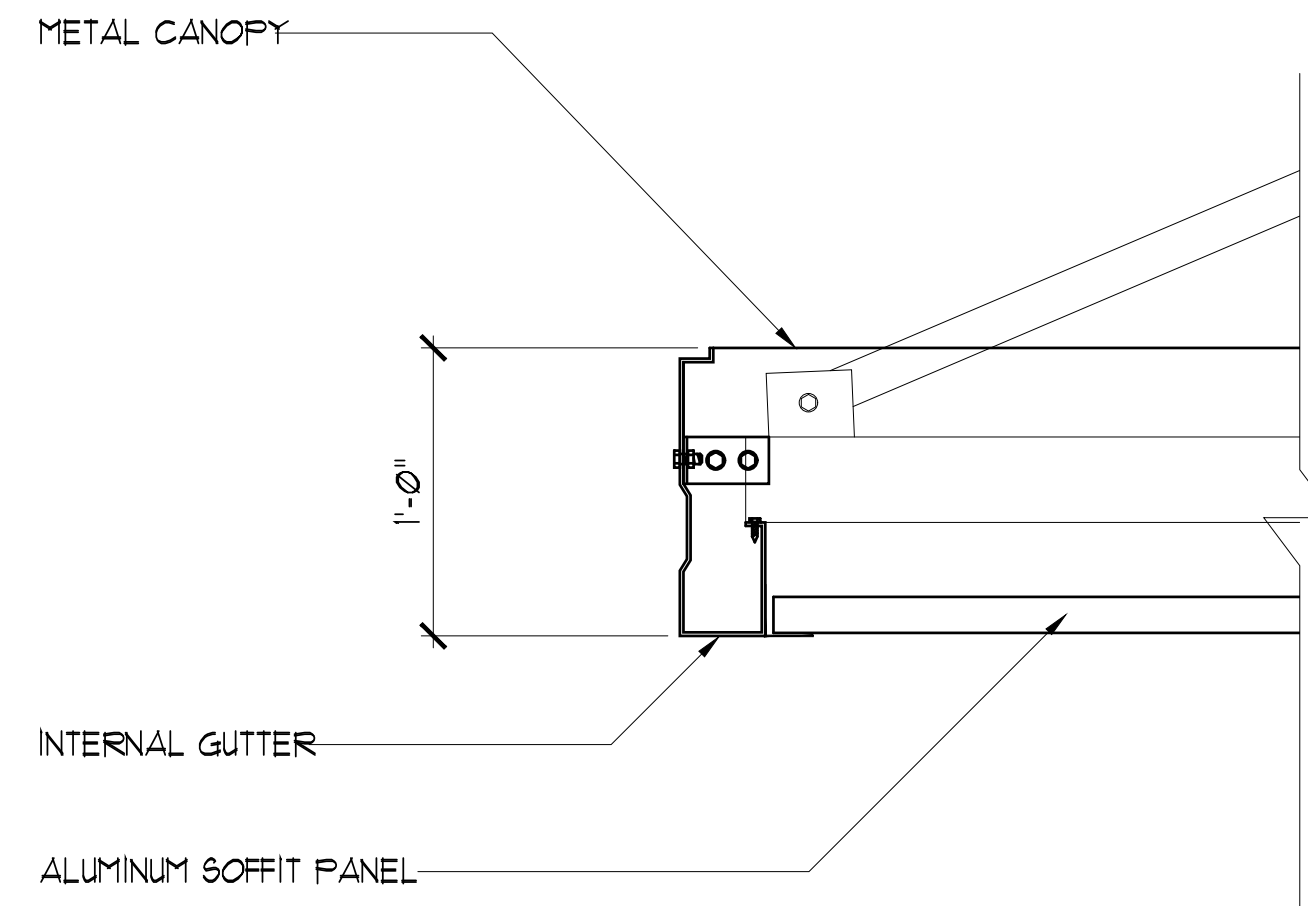
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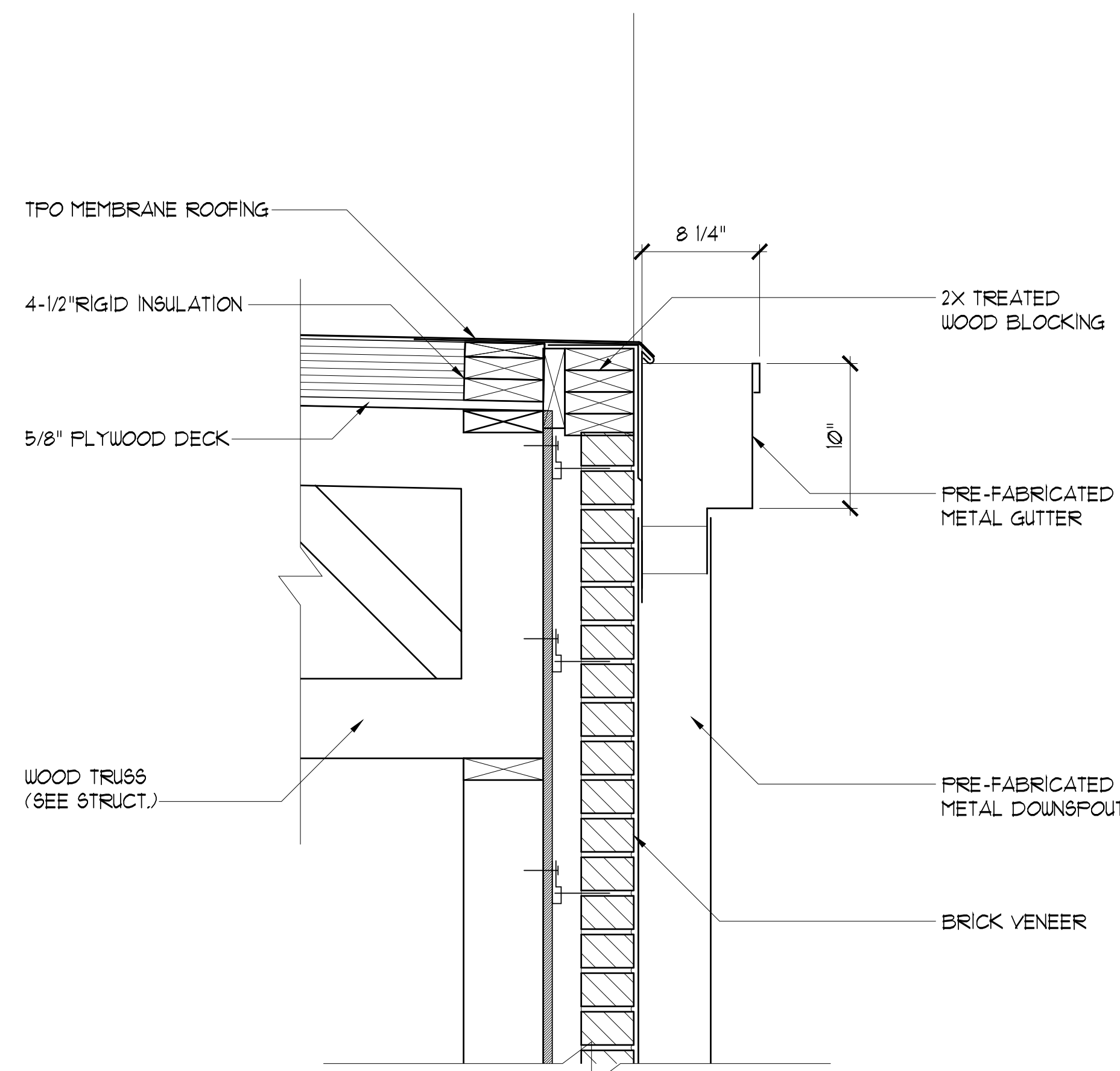
DATE OF ORIGINAL ISSUE
June 9, 2024



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



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



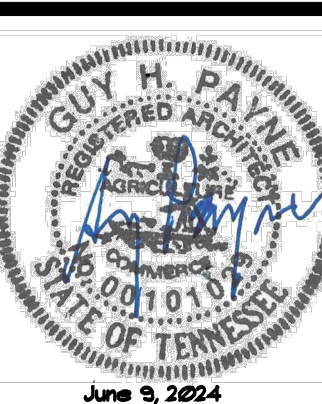
3 Roof Detail
SCALE: 1-1/2" = 1'-0"

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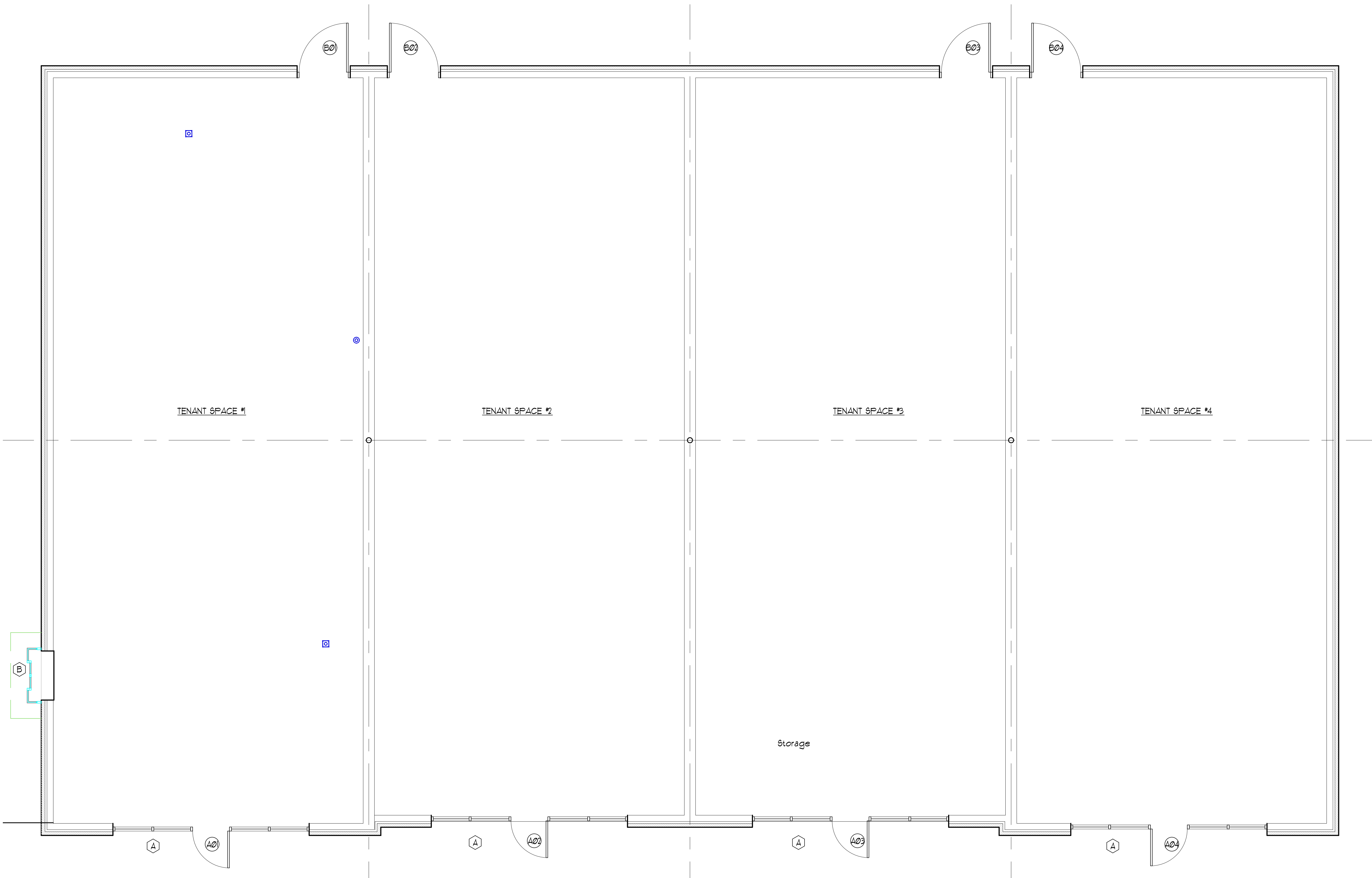
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879 WILLOW CIRCLE, STE. 114
CORDOVA, TENNESSEE 38018
(901) 756-1878

Retail Building
7418 Hwy 70
Bartlett, TN

REVISIONS	
NO.	DATE



June 9, 2024
PROJECT NUMBER
4202
SCALE
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SHEET NUMBER
A4.1
OF
DATE OF ORIGINAL ISSUE
June 9, 2024

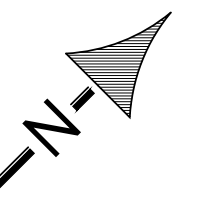


1 Door and Window Key Plan
SCALE: 1/4" = 1'-0"

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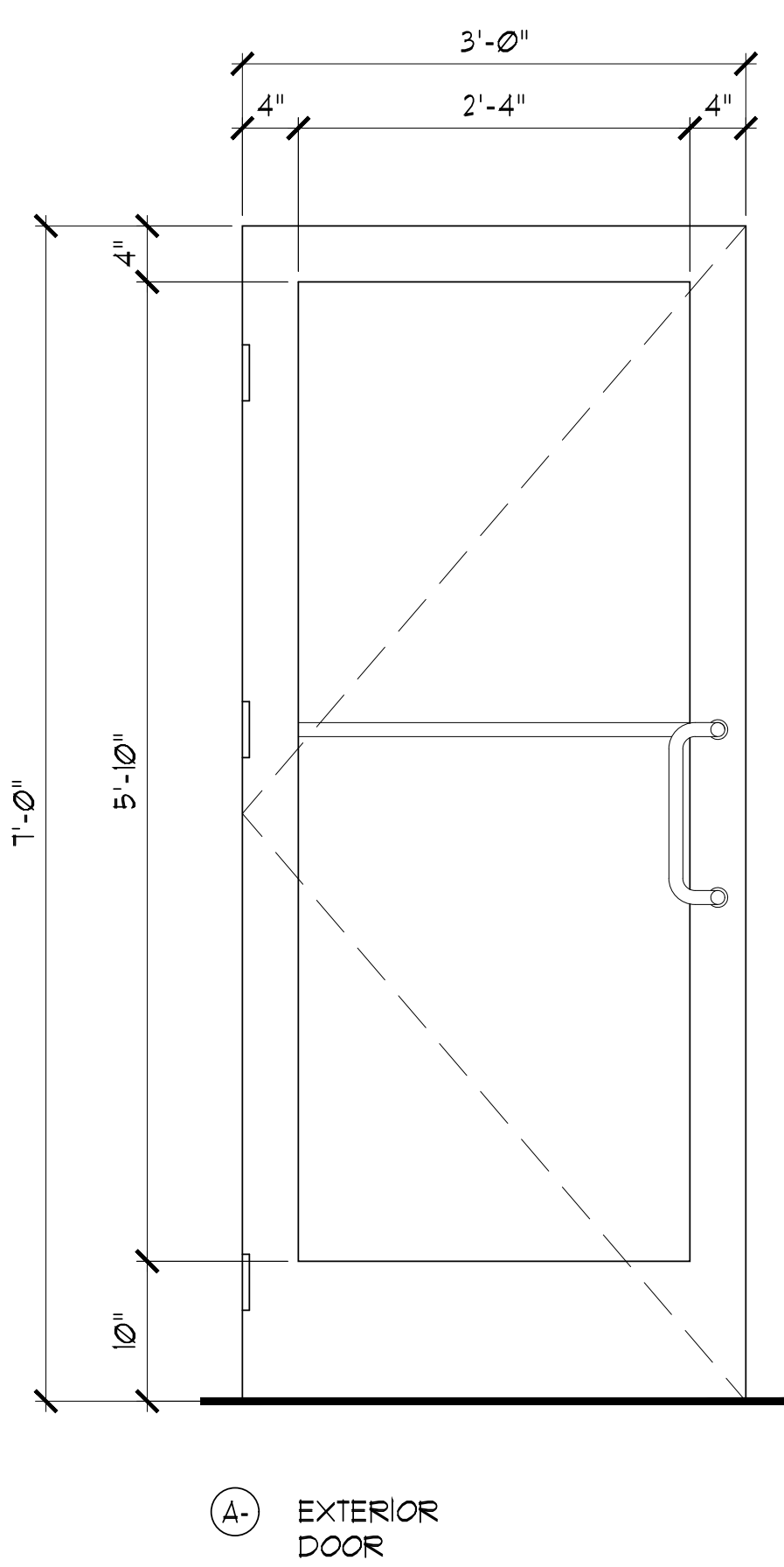
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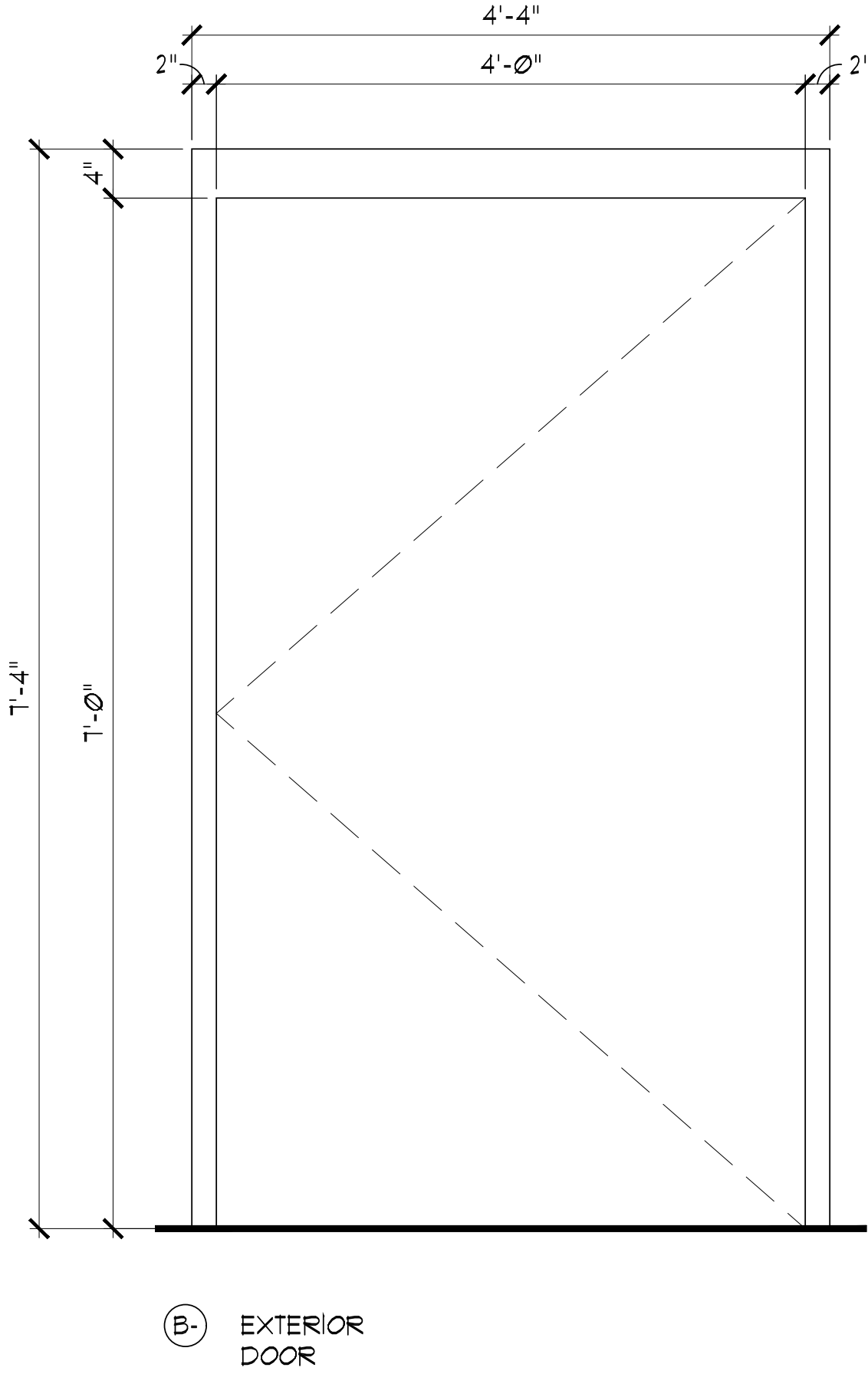
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No.	Date



PROJECT NUMBER
4202
SCALE
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SHEET NUMBER
A6.0
OF
DATE OF ORIGINAL ISSUE
June 9, 2024

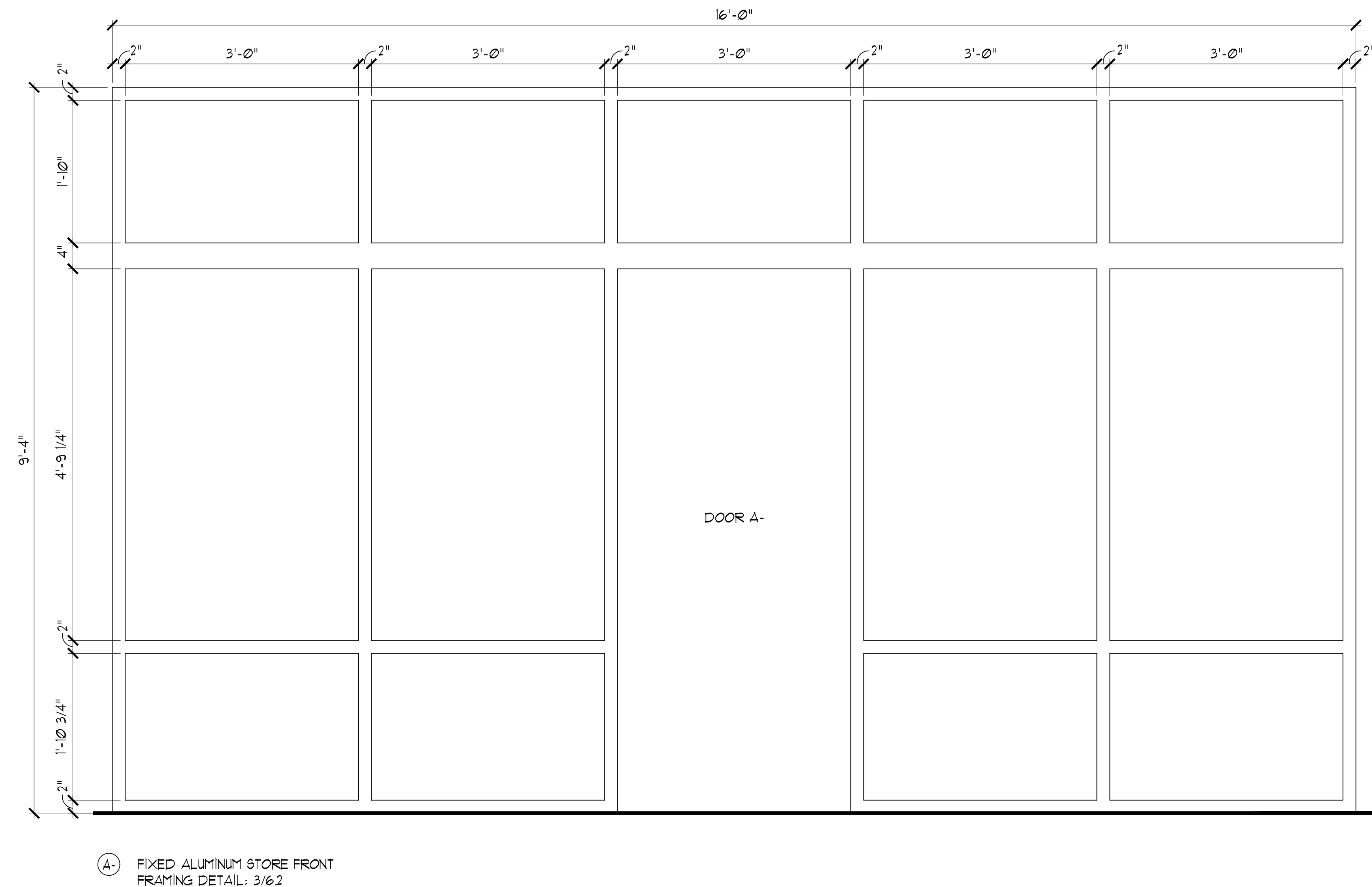


DOOR DATA
STYLE: Aluminum door
FRAME: Aluminum
GLAZING: Yes
HARDWARE: Lockset, Push/Pull,
Closer, Flush Bolt,
Thumb Lock,
Weatherstrip
RATING: N/A
QUANTITY: 4
DETAIL: 1/6.2

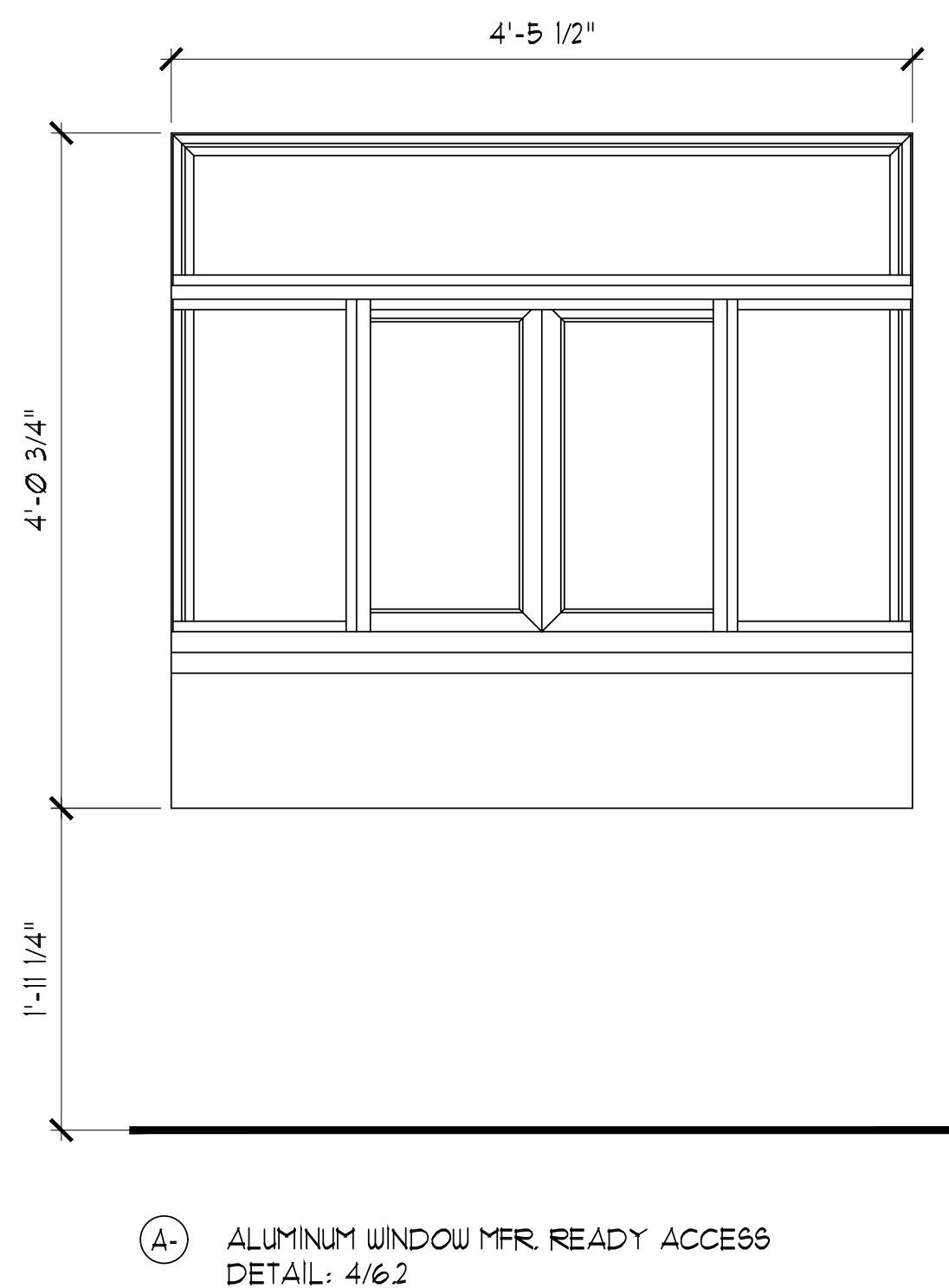


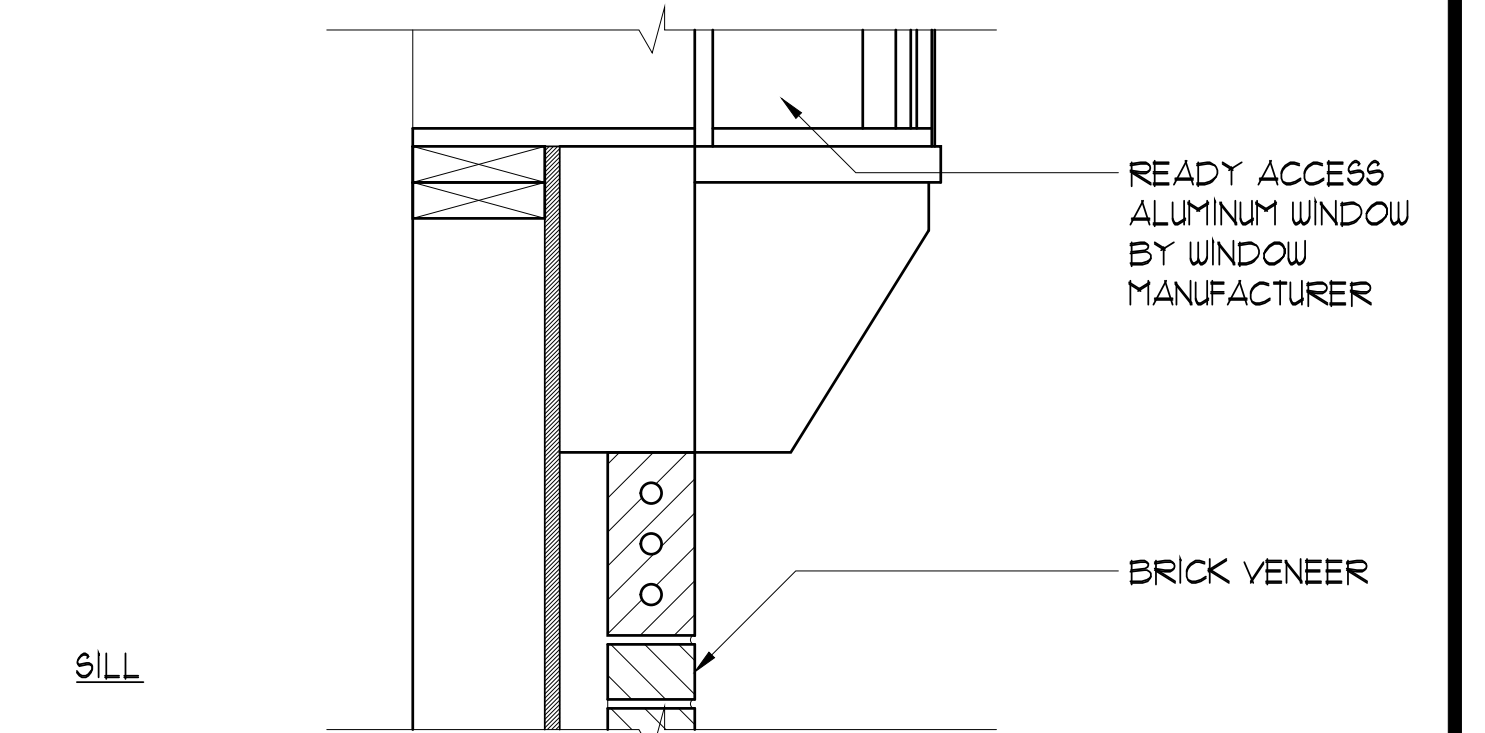
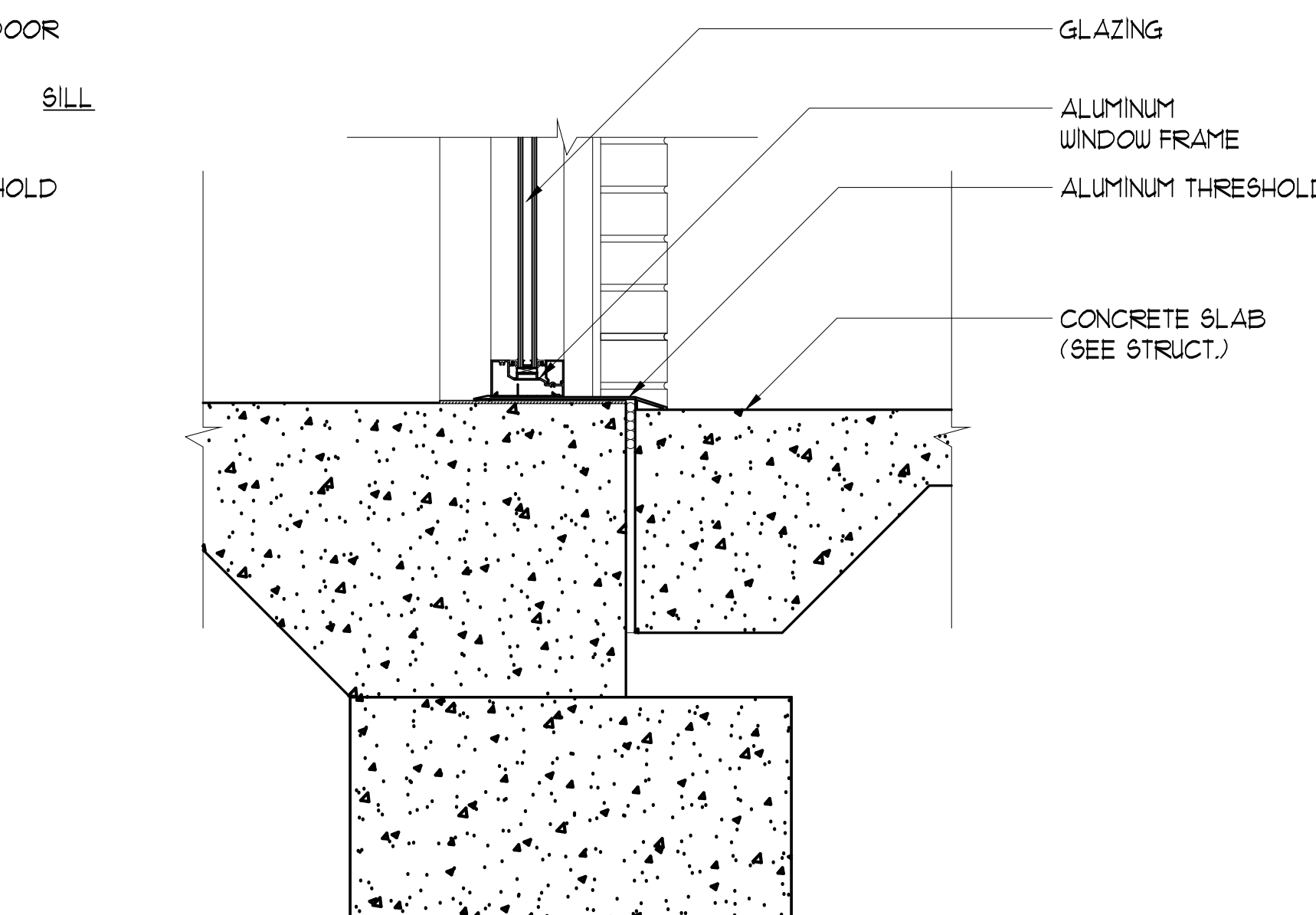
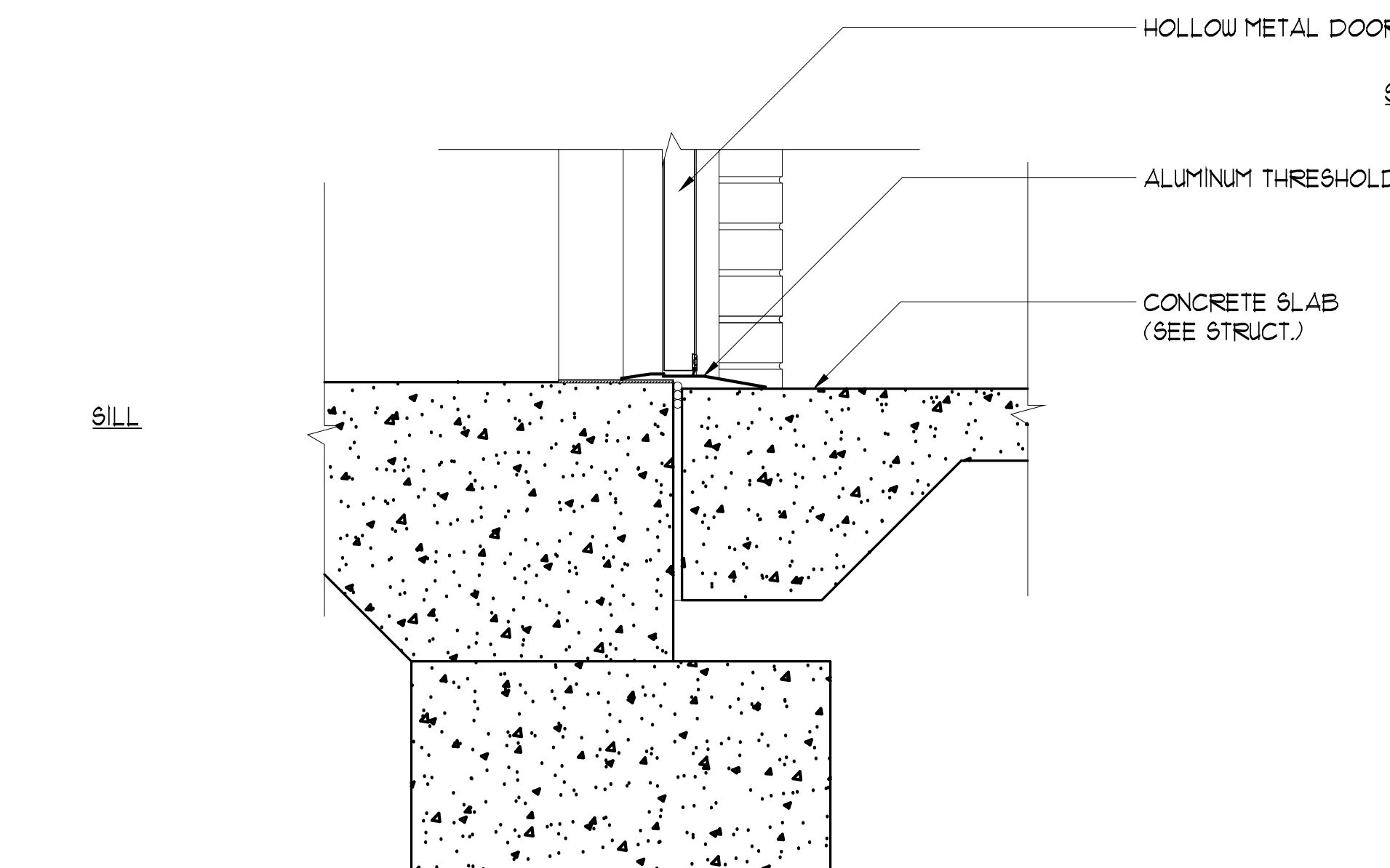
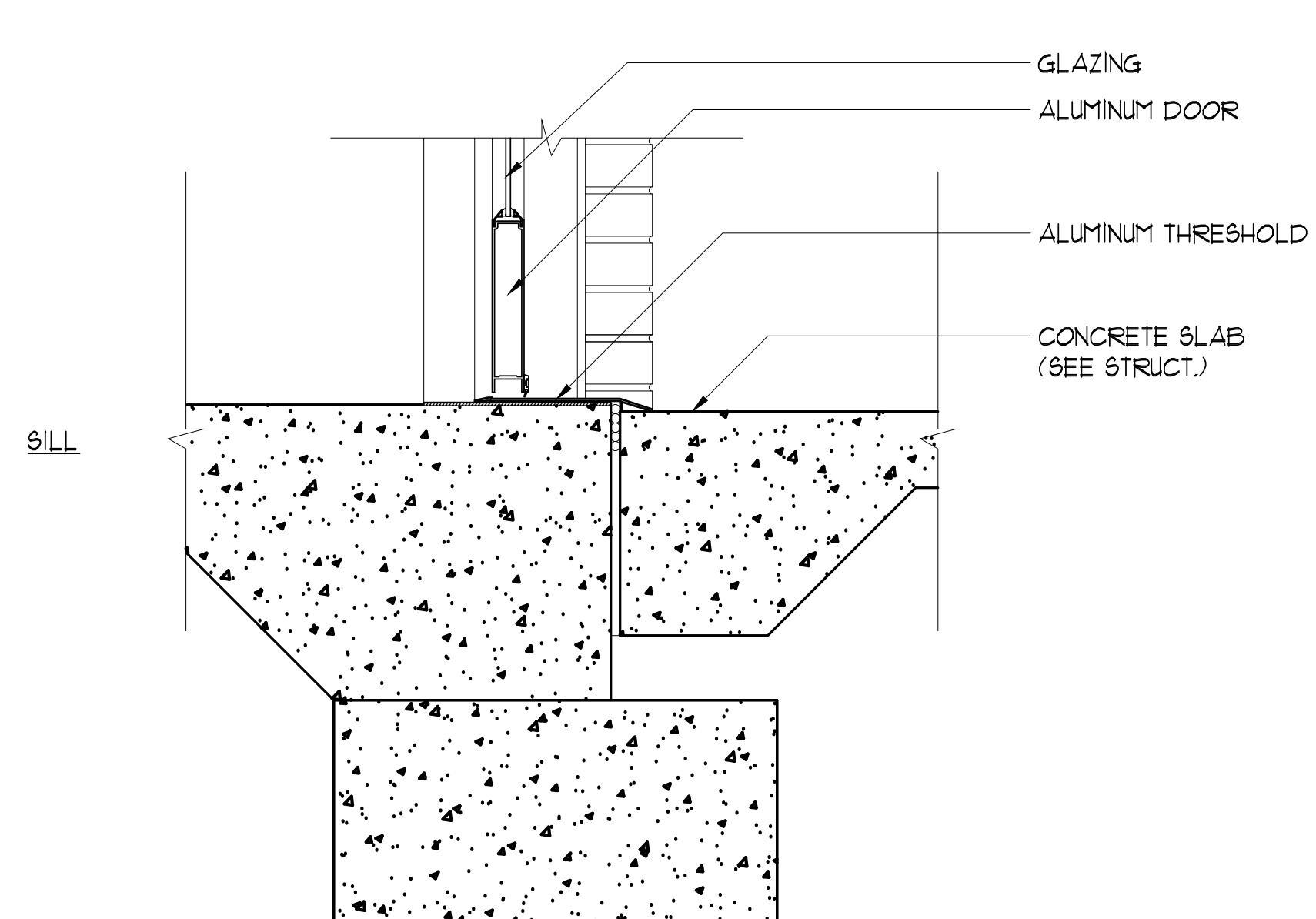
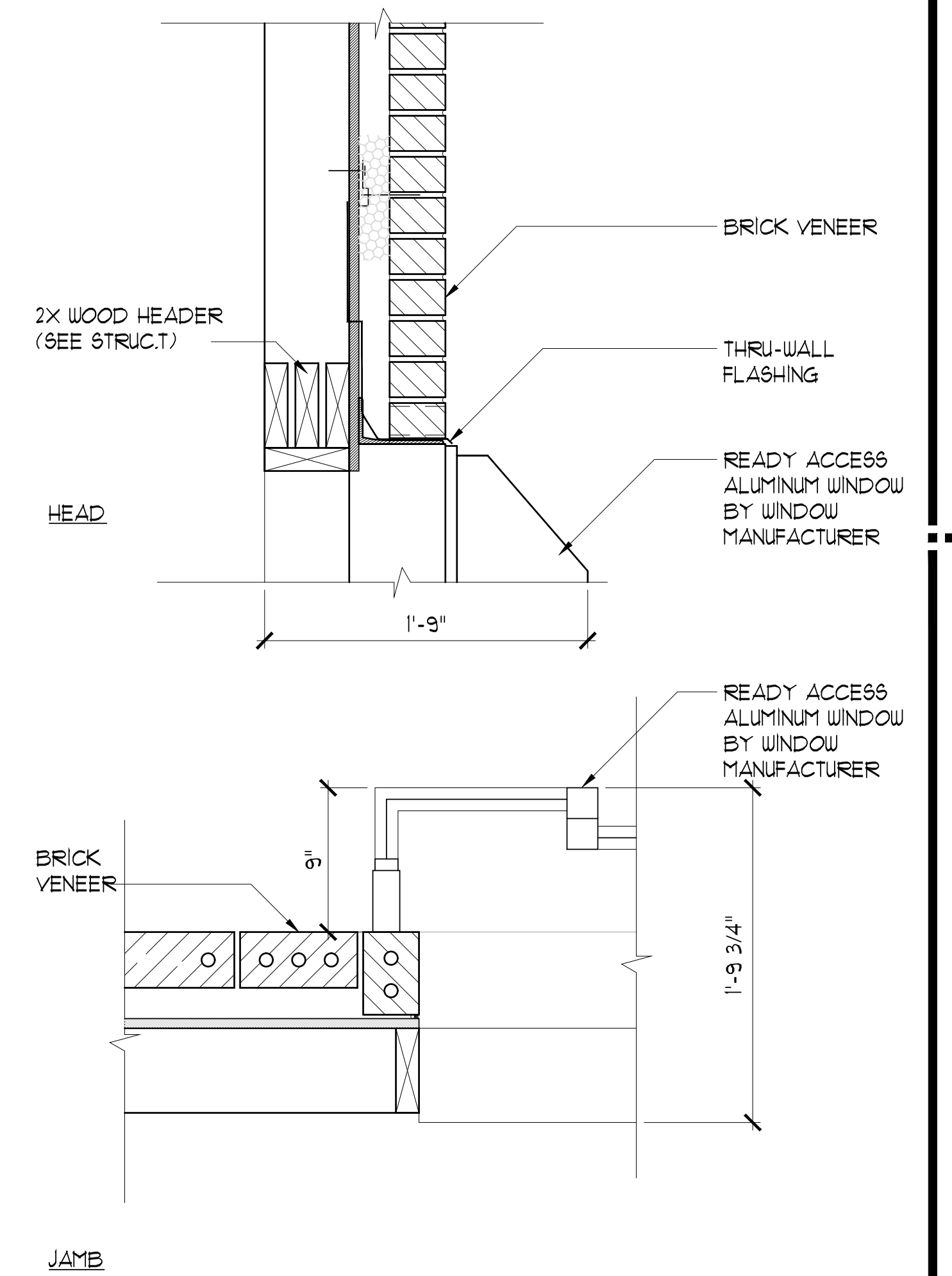
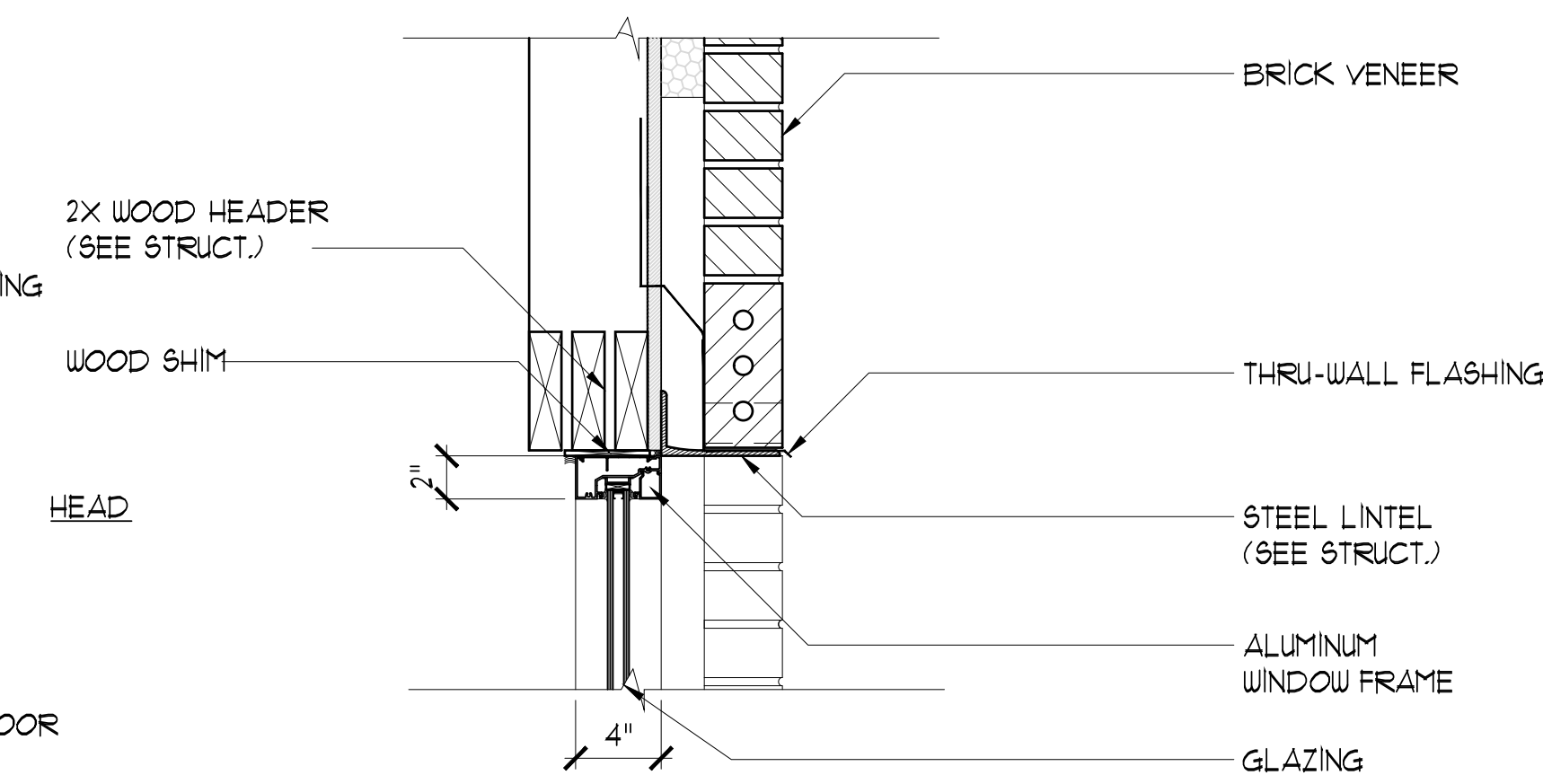
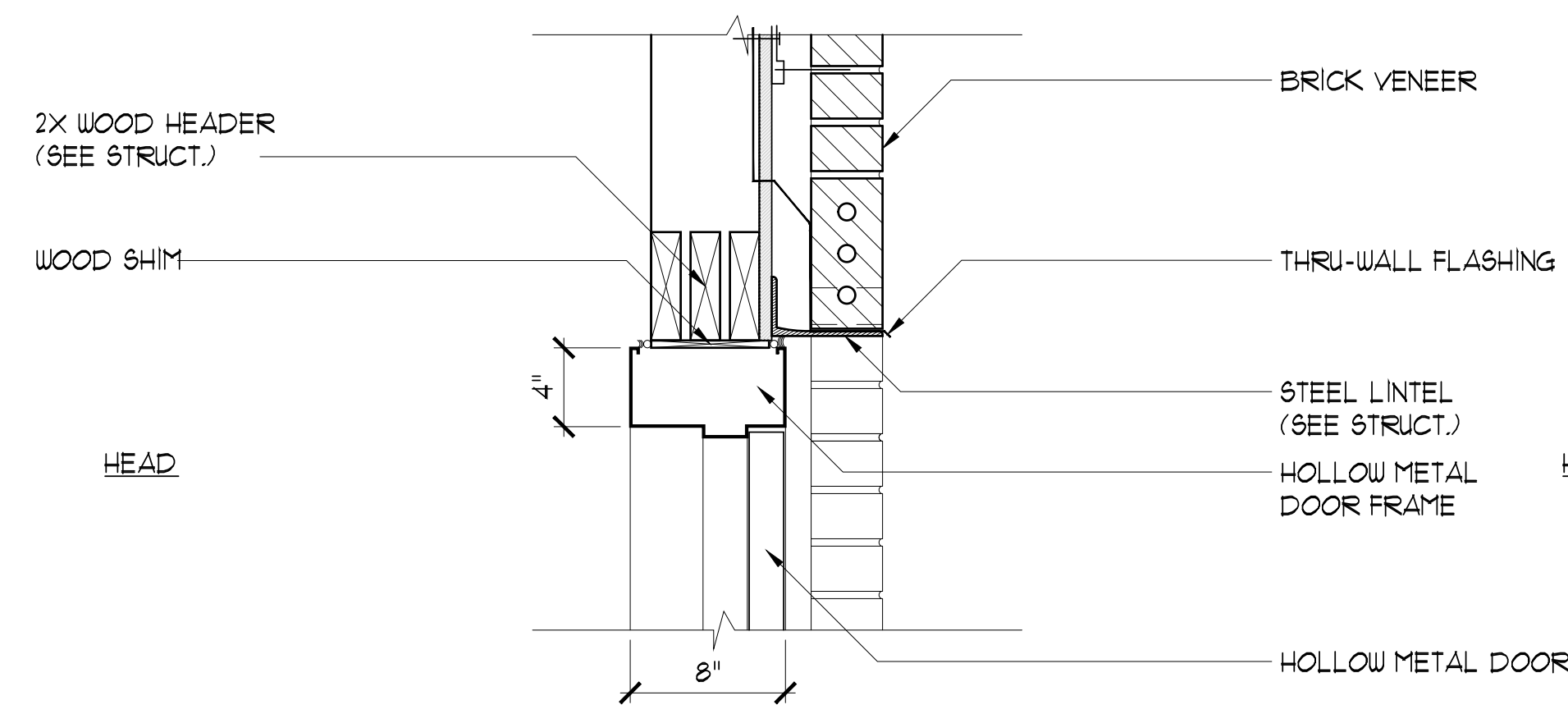
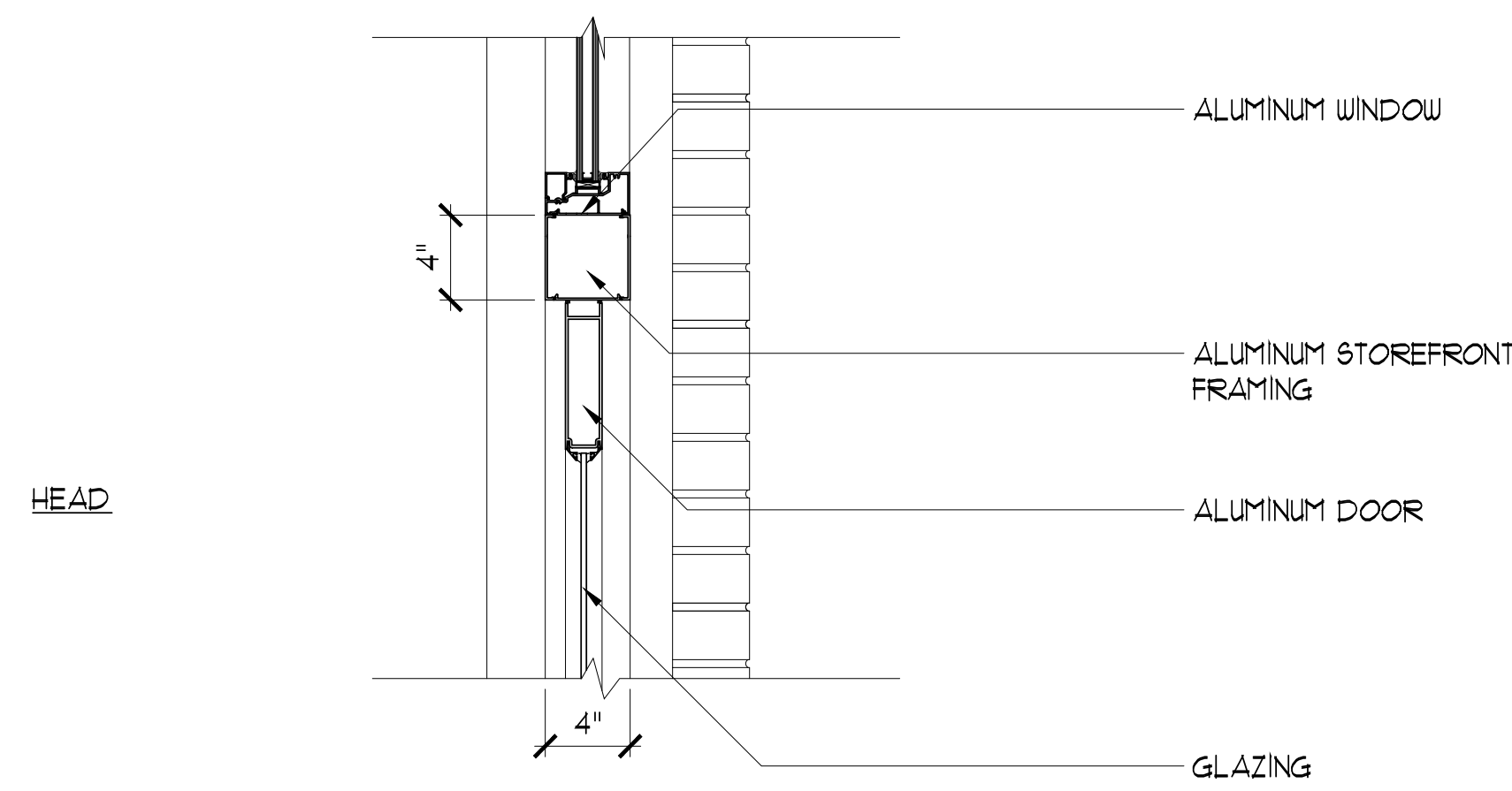
DOOR DATA
STYLE: Hollow Metal
FRAME: Hollow Metal
GLAZING: No
HARDWARE: Lockset, Push/Pull,
Closer, Flush Bolt,
Thumb Lock,
Weatherstrip, Panic
Hardware
RATING: N/A
QUANTITY: 4
DETAIL: 2/6.2

1 Door Elevation
SCALE: 1" = 1'-0"



2 Window Elevation
SCALE: 1" = 1'-0"





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

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

3 Window Detail
SCALE: 1-1/2" = 1'-0"

4 Window Detail
SCALE: 1-1/2" = 1'-0"

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Retail Building

7418 Hwy 70
Bartlett, TN

NO.	DATE



PROJECT NUMBER
4220
SCALE
AS SHOWN
SHEET NUMBER
A6.2
OF
DATE OF ORIGINAL ISSUE
JUNE 9, 2024

Abbreviations

AFF	Above Finished Floor
Approx	Approximate(y)
Arch	Architectural
Bldg	Building
BTM	Bottom
Brg	Bearing
CL	Centerline
Ch	Clear or Clearance
CMU	Concrete Masonry Unit
Col	Column
Conc	Concrete
Conn	Connection
Const	Construction
Cont	Continuous

Dia, Ø	Diameter
Dim	Dimension
Dwg	Drawing
Ea	Each
EF	Each Face
Elec	Electrical
Elev	Elevation
Embed	Embedment
Eq	Equal
EW	Each Way
Exist	Existing
Exp	Expansion
Ext	Exterior
Frd	Foundation
FFE	Finished Floor Elevation
FP	Full Penetration
FS	Far Side
Ftg	Footing

Ga	Gage or Gauge
----	---------------

Horiz	Horizontal
-------	------------

Int	Interior
-----	----------

K	Kips(1000 LBS.)
KSI	Kips per Square Inch

LB, #	Pound
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
Long	Longitudinal

Manuf	Manufacturer
Max	Maximum
Mech	Mechanical
Mid	Middle
Min	Minimum
Misc	Miscellaneous

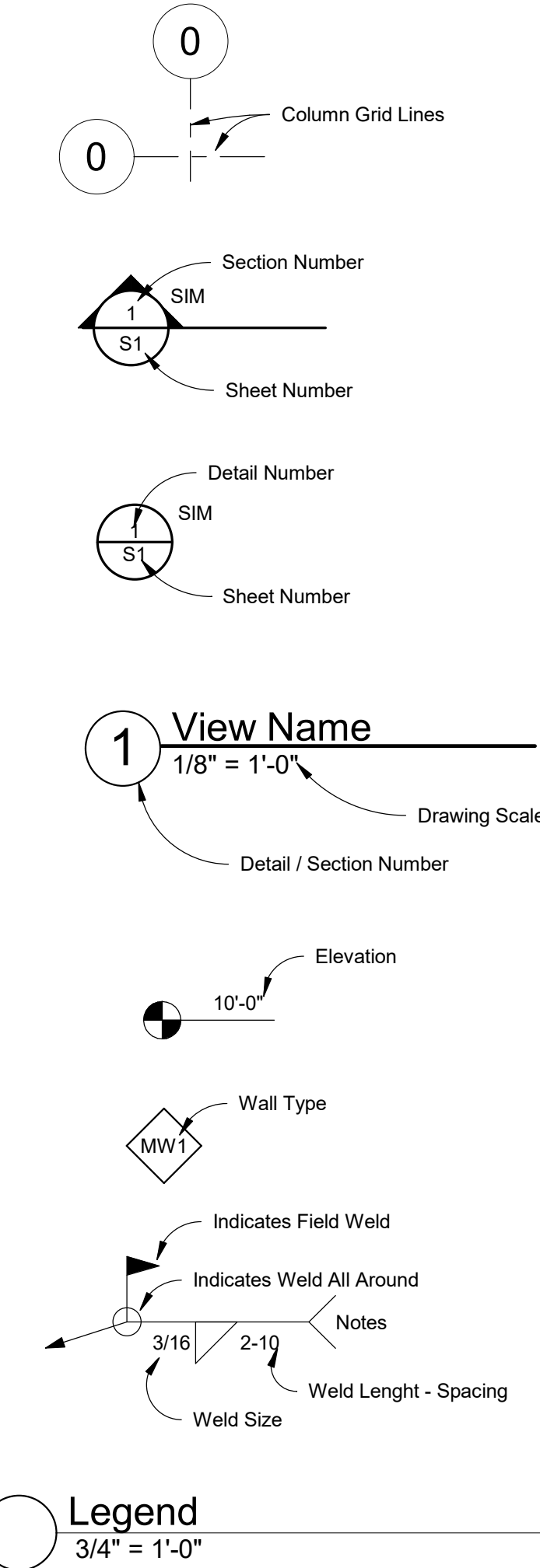
N/A	Not Applicable
NS	Near Side
NTS	Not to Scale
o.c.	On Center
Opp	Opposite

Perp	Perpendicular
PL	Plate
PEMB	Pre-engineered Metal Building
Prelim	Preliminary
Proj	Projection
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch

Reinf	Reinforcing(ed, -ment)
Req'd	Required
Rev	Revision
RW	Retaining Wall
Sched	Schedule(d)
Sect	Section
Sim	Similar
Spec	Specifications(s)
Sym	Symmetrical

T	Top, Tension
T, T.O.	Top of
T/Conc	Top of Concrete
T/Ftg	Top of Footing
T/Slab	Top of Slab
T&B	Top & Bottom
Temp	Temperature
Thk	Thickness
TOS	Top of Steel
TOW	Top of Wall
Trmv	Transverse
Typ	Typical
UNO	Unless Noted Otherwise
Vert	Vertical
w	With
w/o	Without
W.W.F.	Welded Wire Fabric

Legend / Symbols



Design Criteria

Building Code
-2018 International Building Code (IBC)

Roof Loads:
-Live Load20 psf
-Dead Load25 psf

Snow Load:
Ground Snow Load: Pg = 10 psf

Wind Load (Per ASCE 7-16):
-Ultimate Wind Speed = 105 mph
-Risk Category II
-Wind Exposure.....B

Seismic loads (Per ASCE 7-16):

-Occupancy Category.....II
-Spectral Response Coefficients
S₁ = 0.732
S₂ = 0.269
S₃ = 0.592
S₄ = 0.370
-Soil Site Class.....D
-Seismic Design Category.....D
-Response modification factor.....6.5
-Deflection amplification factor.....3.0
-System overstrength factor.....4.0
-Seismic force resisting system.....Plywood Shear Walls
-Design base shear.....V = C_sW
-Analysis procedure.....Equivalent Lateral Force

Shallow Foundations

- Foundations are designed based upon assumed soil bearing capacities as stated below.
- Allowable soil bearing pressures used in design: Spread footings =1800 psf /Continuous footing = 1800 psf
- Footing excavations shall be observed and tested by an experienced geotechnical engineer prior to steel or concrete placement in order to assess that the foundation materials are consistent with above stated assumed soil bearing capacities.
- In the event that the soils test results are disapproved, footing excavations shall be undercut (under the direction of the soils engineer) until soils of adequate bearing capacity are encountered. Backfill under footings shall consist of concrete f'c = 2500 psi @ 28 days placed up to the proposed bottom of footing elevation.
- Footings shall bear on undisturbed residual soils or compacted fill, maximum desnist of 98% ASTM D-696.
- Footing elevations shown on the plans are for estimating purposes only. Actual footing elevations shall be determined by the contractor at the site and shall be a minimum of 12" below finished grade.
- All water shall be removed from foundation excavations prior to placing of concrete. If bottoms of trenches become softened due to water before footings are cast, the contractor, at his own expense, shall excavate the softened material and replace with concrete.
- All pipes (water lines, sewer lines, etc.) And conduits running through walls / slabs shall be protected with 1/2" expansion material.
- Continuous footing perpendicular to pipe runs shall be either lowered to allow pipes to pass through above such footings or have concrete jacket if pipes are low enough to be placed below such footings. Footings parallel to pipe runs shall be lowered to avoid surcharge onto the trench excavations.

General Notes

- No provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the contract documents) shall be effective to change the duties and responsibilities of the owner, contractor, architect, engineer, supplier, or any of the consultants, agents, or employees from those set forth in the contract documents, nor shall it be effective to assign to the structural engineer of record (S.E.R.) or any of the S.E.R.'s consultants, agents, or employees any duty or authority to supervise or direct the furnishing or performance of the work or any duty or authority to undertake responsibilities contrary to the provisions of the contract documents.
- Reference to standard specifications (concerning structural design) of any technical society, organization, or association or to codes of local or state authorities, shall mean the latest standard codes, specification or tentative specification adopted at the date of taking bids, unless specifically stated otherwise.
- In the event contract documents conflict with the code of practice or specifications of AISC, PCI, AISC, AISI, SJI or other standards, contact structural engineer for clarification.
- Notes and specific details on the drawings shall take precedence over general structural notes and typical details. Contact the architect / engineer for a determination of intent before proceeding with related work if there is any discrepancy or question regarding which note to follow.
- Material, workmanship, and design shall conform to the referenced building code.
- The contractor shall verify the dimensions, elevations and site conditions before starting work. The architect / engineer shall be notified of any discrepancy.
- The design, adequacy, and safety of erection bracing, shoring, temporary supports, etc. is the sole responsibility of the contractor.
- The contractor shall coordinate the architectural, mechanical, electrical, plumbing and civil works with the structural contract documents. The architect / engineer shall be notified of any discrepancies or omissions.
- The contractor shall notify, in writing, the engineer of conditions encountered in the field that are contradictory to those shown on the contract documents.
- For dimensions not shown on the structural drawings see the architectural drawings.

Structural Steel

- Structural steel shall conform to:
 - W-Shapes = A992
 - Pipe columns = ASTM A53 type E or S Grade B.
 - HSS = ASTM A500 Grade B.
 - Plates, Channels, Angles, Misc, etc. = A36
- Design, fabrication, and erection shall be in accordance with also specification for the design, fabrication, and erection of structural steel buildings.
- Structural steel shall be detailed in accordance with standard practices of AISC
 - a. Connections: AISC Manual standard connections, unless noted.
 - b. High-strength bolts: ASTM A325 bearing type N installed in accordance with "specification for structural joints Using ASTM A325 or A490 Bolts", research council on riveted and bolted structural joints.
- All welds must be made in accordance with the American Welding Society Code D-1.1.
- Field and shop connections shall be welded as shown on drawings or bolted with high strength bolts, unless noted otherwise.
- See architectural drawings for angles, clips, bars, plates, and other items attached to structural members, and for chamfers on concrete walls, beams, etc.
- Provide temporary bracing as required to maintain alignment and security of structures during construction.
- Do no cutting, drilling or modifying of structural members without the approval of the engineer.
- The manufacturer's name, brand or trademark (mill identification marks) shall be shown in raised letters at intervals along the length. (ASTM A6/ABM 96-97, paragraph 12.2) note: small shapes with the greatest cross-sectional dimension not greater.

Concrete

- All phases of work pertaining to the concrete construction shall conform to the "Building Code Requirements for Structural Concrete" (ACI 318), latest edition with modifications as noted in the drawings or specifications.
- Concrete mixes shall be designed by a qualified testing laboratory and approved by the structural engineer.
- All exposed corners or edges of columns, piers, walls, etc., shall be formed with a 3/4" chamfer unless noted otherwise on structural or architectural drawings.
- All reinforcing bars, anchor bolts and other concrete inserts shall be well secured in position prior to placing concrete.
- Provide sleeves for plumbing and electrical openings in concrete before placing concrete. Do not cut any reinforcing that may conflict. Coring is not permitted except as shown. Notify the structural engineer in advance of conditions not shown on the drawings.
- Conduit or pipe size (o.d.) shall not exceed 30% of the slab thickness and shall be placed between the top and bottom reinforcing unless specifically detailed otherwise. Concentrations of conduits or pipes shall be avoided except where detailed openings are provided.
- Curing compounds on concrete that is to receive special finish shall be approved by the manufacturer before use.
- Roughen surface of horizontal or nearly horizontal construction joints so that the aggregate shall be exposed uniformly, leaving no laitance, loosed particles or damaged concrete.
- Locate joints not indicated to least impair strength and appearance of the structure. Locate horizontal joints in concrete only where they normally occur or where indicated. Locate vertical joints in middle third of spans of slabs, beams, or girders unless a beam intersects a girder at middle location, in which case offset joints in girders twice the width of the beam.
- Once formwork has been removed from concrete retaining walls, brace walls thoroughly before placing soil against wall and keep bracing in place for a minimum of 7 days after earthwork is complete.

Schedule of Concrete Strengths						
Use (Location)	28 Day Strength	Aggregate Size (Max.)	Cement/CY (Min.)	W/C ratio (Max.)	Slump (Max.)	Air Entrainment
Slab-on-grade (Interior)	f'c=3,000 psi	1"	480#	.62	4-1/2"	None
Exposed Concrete	f'c=4,000 psi	1"	560#	.54	4-1/2"	4%-6%
Footings	f'c=3,000 psi	1"	480#	.62	4-1/2"	None

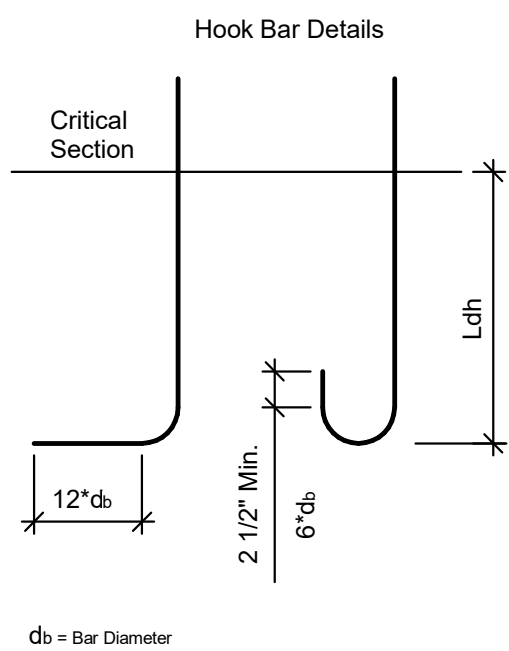
- All aggregate shall be Limestone
- All cement shall be Portland Cement Type 1

Reinforcing

- Reinforcing shall be detailed and placed in conformance with ACI Detailing Manual.
- Reinforcing bars shall conform to the requirements of ASTM A615 Grade 60 except all reinforcing in concrete moment frames and shear walls and all welded reinforcement shall conform to ASTM A706 Grade 60.
- Welded wire fabric shall conform to ASTM A185.
- Minimum lap of welded wire fabric shall be 6" or one full mesh + 2", whichever is greater.
- Dowels between footings and walls shall be the grade, size and spacing or number as the vertical reinforcing, respectively.
- Reinforcing steel in all concrete walls and footings shall be continuous around corners.
- Provide (2) #5 extra reinforcing bars around all side of openings in concrete, unless noted otherwise on the plans. Extend bars 2'-0" beyond each edge of opening.
- Minimum clear coverage of concrete over reinforcement shall be:
 - a. Concrete cast against and permanently exposed to earth3"
 - b. Concrete exposed to earth or weather:
 - i. No. 6 through no. 18 bar.....2"
 - ii. No. 5 bar, w/31 or #31 wire or smaller.....1-1/2"
 - c. Concrete not exposed to weather or in contact with ground:
 - i. Slabs walls and joists no. 14 & no. 18.....1-1/2"
 - ii. Slabs walls and joists no. 11 & smaller.....3/4"
 - iii. Beams, columns: ties and primary reinforcing.....1-1/2"

REINFORCING EMBEDMENT / DEVELOPMENT LENGTH						
Bar Size	f'c = 3000 PSI		f'c = 4000 PSI		f'c = 5000 PSI	
	Ld	Ldh	Ld	Ldh	Ld	Ldh
#3	16 1/2"	8 1/2"	14 1/2"	8"	13"	7"
#4	22"	11"	19"	10"	17"	9"
#5	28"	14"	24"	12"	22"	11"
#6	33"	17"	29"	15"	26"	13"
#7	48"	20"	42"	17"	38"	15"
#8	55"	22"	48"	19"	43"	17"
#9	62"	25"	54"	22"	48"	20"
#10	70"	28"	61"	25"	54"	22"
#11	78"	31"	67"	27"	60"	24"

- Notes:
- Fy = 60 ksi
 - Ld = Straight Bar Development Length
 - Ldh = Development Length w/ Standard Hook.



Plywood Sheathing

- Plywood shall be interior type with exterior glue conforming to PS-1 of grade as specified, laid with face grain perpendicular to supports. Use common nails only unless otherwise approved by the structural engineer and local building official. All plywood shall be 5 ply material.
 - a. Roof sheathing: 5/8" CDX plywood sheathing, Pli 24/0 or better, with 8d nails (common or box) at 6" o.c. at support edges, and at 12" o.c. at intermediate members.
 - b. Floor sheathing: 3/4" T&G Plywood, Glued & Screwed at 6" o.c. at support edges, and at 12" o.c. at intermediate members.
 - c. Shear walls: Plywood grade to be either structural I or CDX or OSB. Reference shear wall schedule for specified grade and thickness.
- All plywood sheathing at floor, walls and roof shall be inspected and approved by building inspector, where required, prior to covering with flooring or roofing material.
- Solid blocking at edges required for plywood only where called for on drawings.

Lumber

- Wood structures have been designed in accordance with the National Design Specifications for Wood Construction by the National Forest Products Association.
- All dimensional lumber shall be No. 2 Southern Pine kiln dried to 19% maximum moisture content with allowable stress values of 1200 psi in bending and a modulus of elasticity of 1600ksi.
- All laminated veneer lumber (LVL) shall have a grade equivalent to or better than 2.0E with an allowable stress value equal to 2500 psi in bending and a modulus of elasticity of 2000ksi.
- Structural glued-laminated timber shall conform to A.L.T.C. 117 and shall have allowable stress values of 24F combination in Southern Pine.
- Use light gauge galvanized steel joist hangers and framing anchors, sized for the full load capacity of the supported members (U.N.O.). All wood connectors specified in the drawings shall be manufactured by Simpson Strong-Tie Co., or equal (U.N.O.)
- Pressure treat all wood products in direct contact with the foundation.
- Provide double studs on each side of all openings and all wall ends and triple studs at beam bearings, (U.N.O.)
- Provide solid blocking under posts, multiple studs or beam bearing locations.
- Where plywood fillers are required in beams they shall be continuous pieces for the length of the opening and shall be nailed to the 2x members with (2) rows of 16d nails at 12" o.c. Staggered. All top loaded built-up beams shall have their individual pieces fastened together with a minimum of (2) rows of 16d nails at 12" o.c. (U.N.O.)
- All nailing shall be done in accordance with the minimum requirements of the local building code, except as otherwise shown, and shall be done with common wire nails.
- Bolts shall be unfinished A307 with bolt holes through the wood drilled no more than 1/16" greater than the bolt diameter.

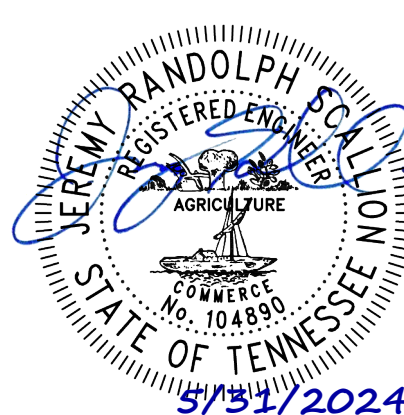
Pre-Engineered Wood Trusses

- All pre-engineered wood trusses shall be designed, detailed and fabricated in accordance with the procedures and requirements outlined in the latest edition of the National Design Specifications for Wood Construction, Truss Plate Institute's (TPI) and the National Design Standard for Metal Plate Connected Wood Truss Construction. All handling, installation and bracing to be in accordance with TPI's H1B-91.
- See design criteria for wind speed, seismic criteria and snow loads.

Roof Trusses:
Dead Load (min.): Top chord = 20 psf / btm chord = 5psf
Live Load (min.): Top chord = 20 psf.
- Pre-engineered wood trusses shall be designed and detailed to fit the dimensions and loads indicated. All design shall be in accordance with allowable values and section properties assigned and approved by a licensed professional engineer and are to be submitted to the architect / engineer for approval.
- Permanent bridging / bracing perpendicular to the span of the trusses shall be provided as required by the truss manufacturer.
- Truss manufacturer shall provide bracing for the bottom chord of roof trusses for uplift loading conditions.
- Submit roof valley member sizes, framing details and connections.
- Truss manufacturer to shop drawings of wood trusses signed and sealed by a professional engineer registered in the state of this project, prior to fabrication. Shop drawings shall include design and engineering data, truss profiles for each truss, a truss placement layout plan, species and stress grade of lumber to be used, details of connectors at all joints, typical connection and anchorage details and all temporary and permanent bracing.
- Gable end design shall include vertical loads imposed including "X" bracing.

STRUCTURAL DRAWING LIST

Sheet No:	Sheet Name
S1.0	GENERAL NOTES
S2.0	Foundation Plan
S3.0	Framing Plan
S4.0	Foundation Sections
S5.0	Framing Sections



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879 WILLOW CIRCLE, STE. 114

CORDOVA, TENNESSEE 38018

(901)756-1878

Retail Building

7418 Hwy 70

Bartlett, TN

REVISIONS

REV.	DATE	DESCRIPTION

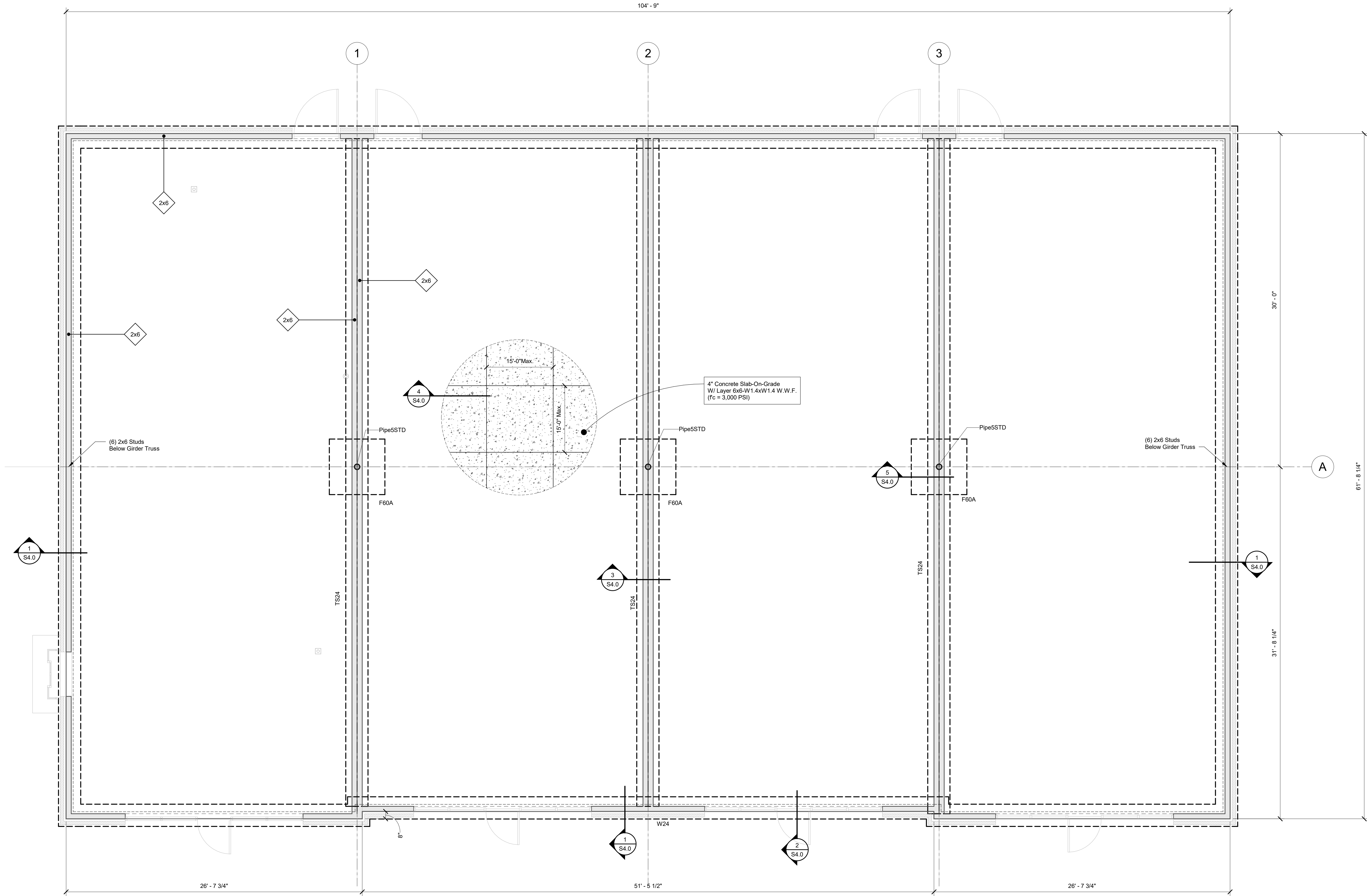
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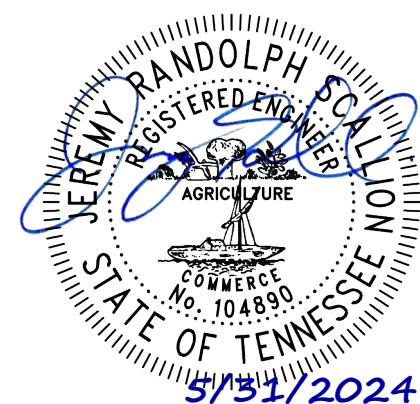
SHEET NUMBER

S1.0

DATE OF ORIGINAL ISSUE: 5/31/2024



1 Foundation Plan
1/4" = 1'-0"



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SHEET NUMBER	S2.0
DATE OF ORIGINAL ISSUE	5/31/2024

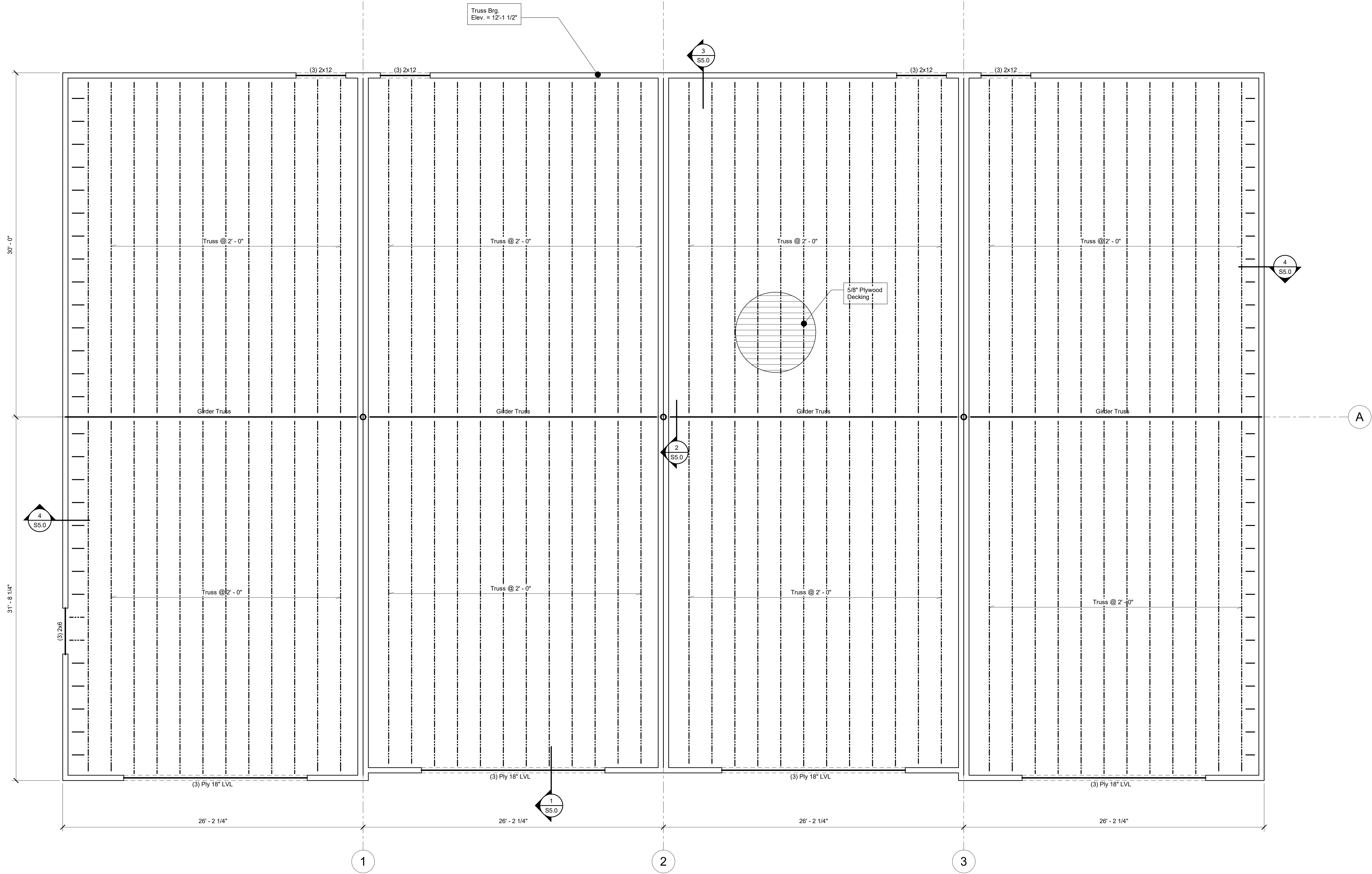
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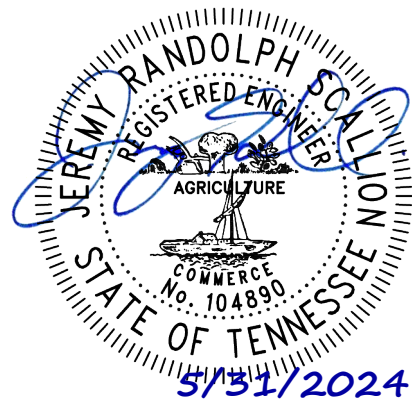
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1 Roof Framing
1/4" = 1'-0"

LOOSE LINTEL SCHEDULE (BRICK)	
SPAN	ANGLE SIZE
4'-0"	L4x4x3/8
4'-1" to 6'-0"	L6x4x3/8 (LLV)
6'-1" to 9'-0"	L7x4x3/8 (LLV)
>9'-0"	L8x6x3/8 Lag Screwed To Beam

NOTE:
1. LINTELS SHALL BEAR 8" EACH END (MIN.)
2. LINTELS SHALL BE GALVANIZED.



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REVISIONS	
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PROJECT NUMBER 420
SCALE AS SHOWN
SHEET NUMBER S3.0
DATE OF ORIGINAL ISSUE 5/31/2024

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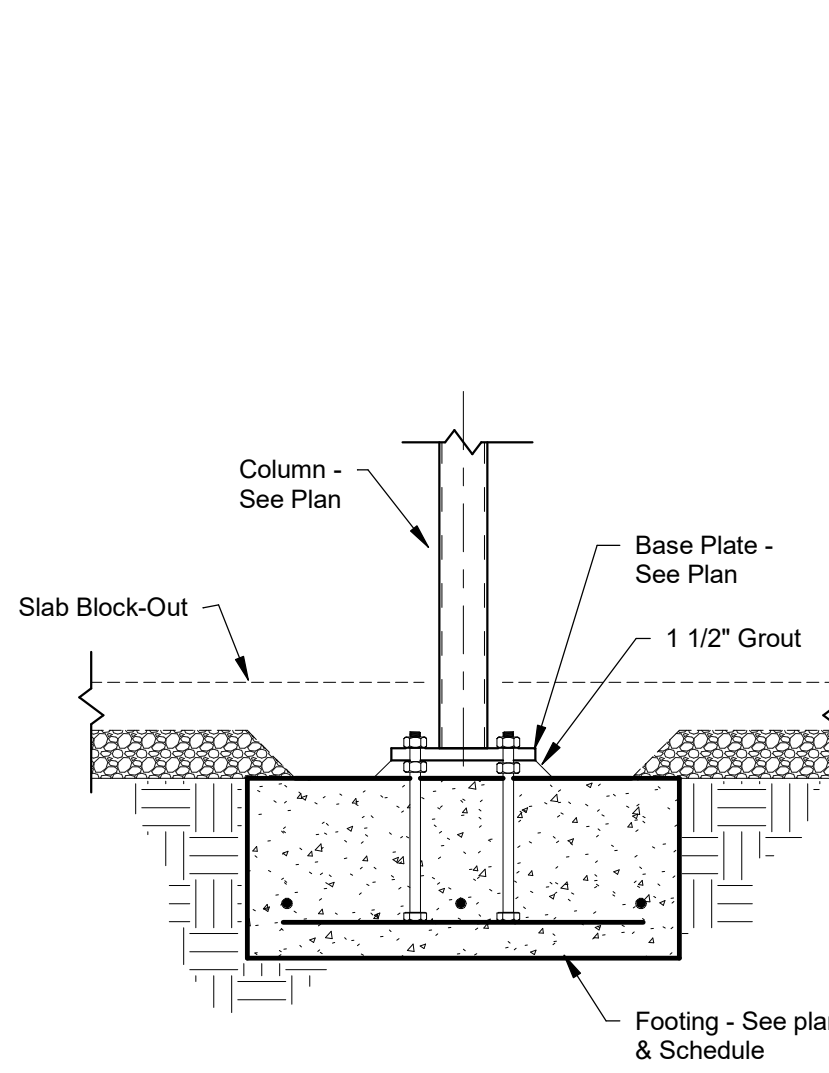
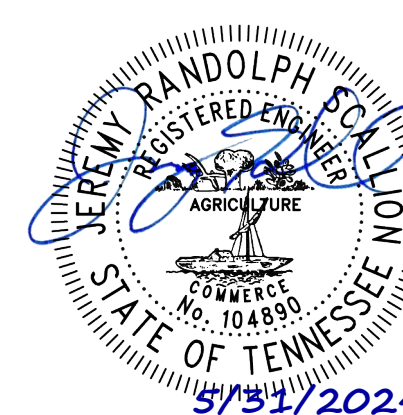
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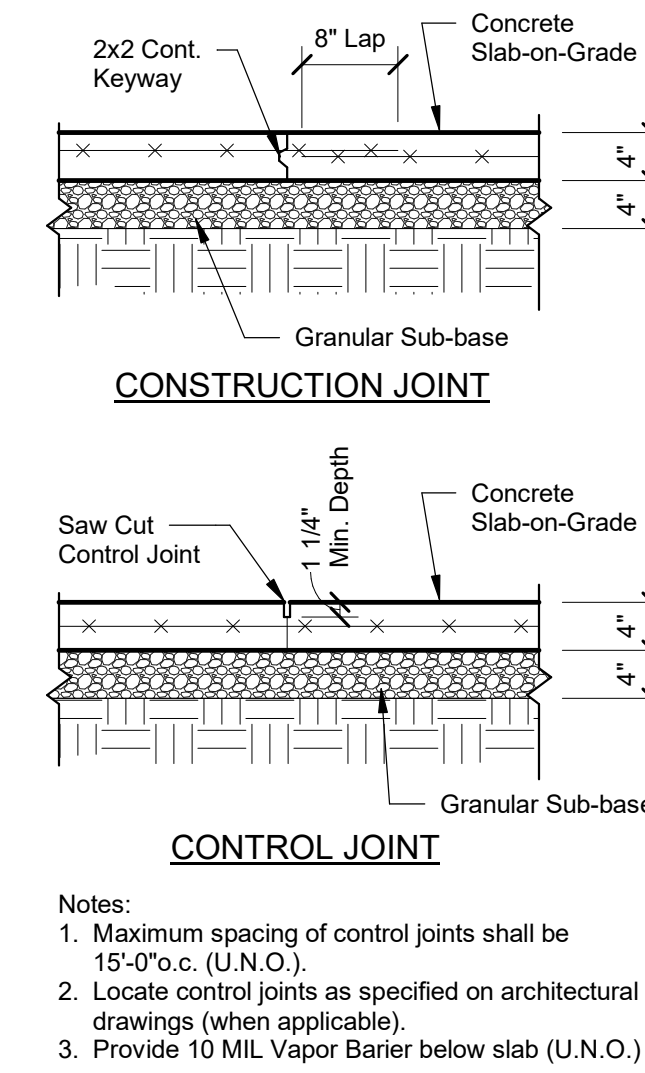
REVISIONS	
NO.	DESCRIPTION

PROJECT NUMBER	420
SCALE	AS SHOWN
SHEET NUMBER	S4.0
DATE OF ORIGINAL ISSUE	03/10/2024

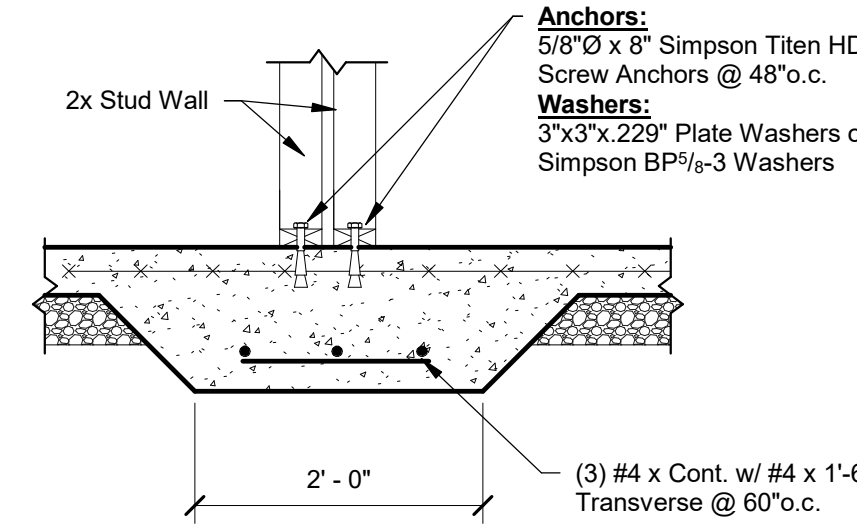
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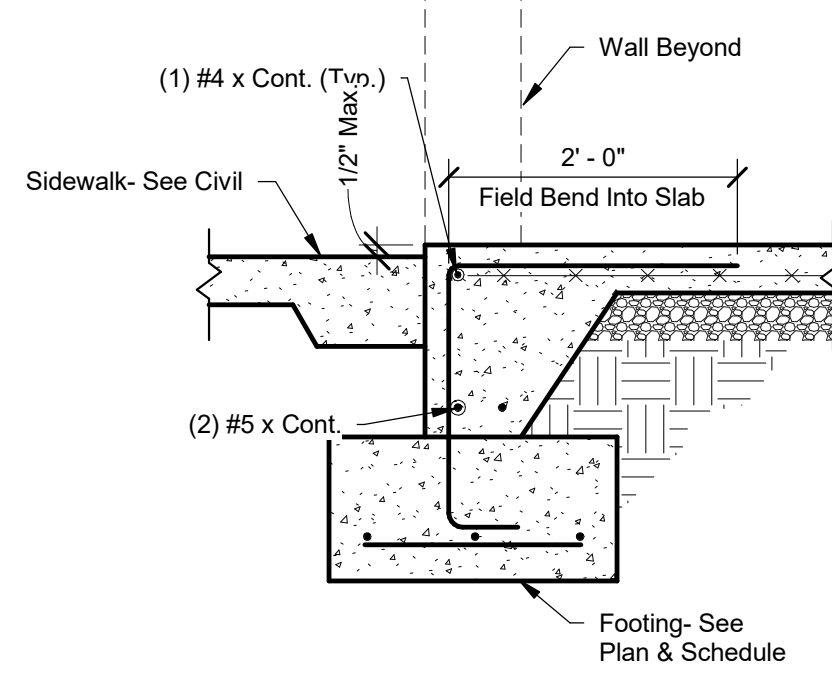
5 Section @ Interior Column
3/4" = 1'-0"



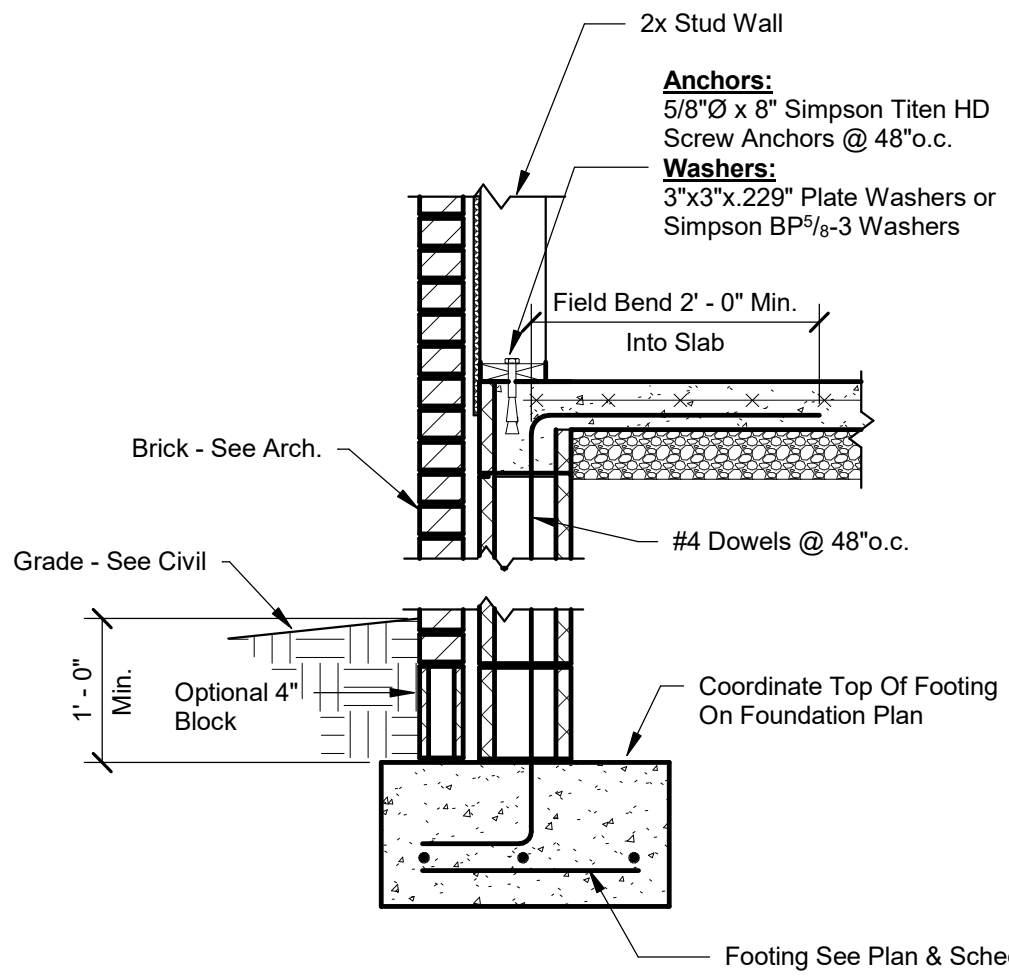
4 Slab-on-Grade Details
3/4" = 1'-0"



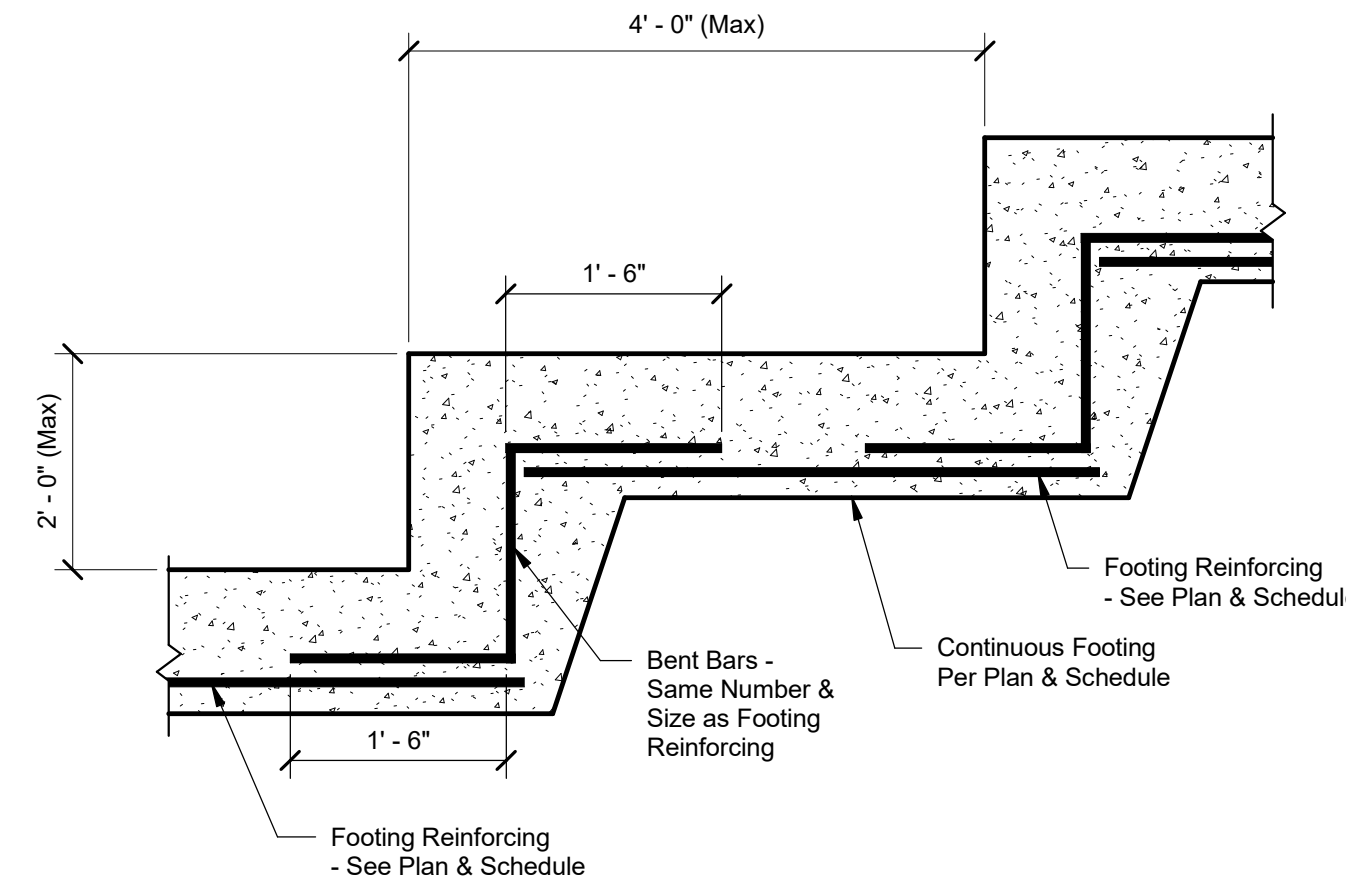
3 Section @ Interior Load Bearing Stud Wall
3/4" = 1'-0"



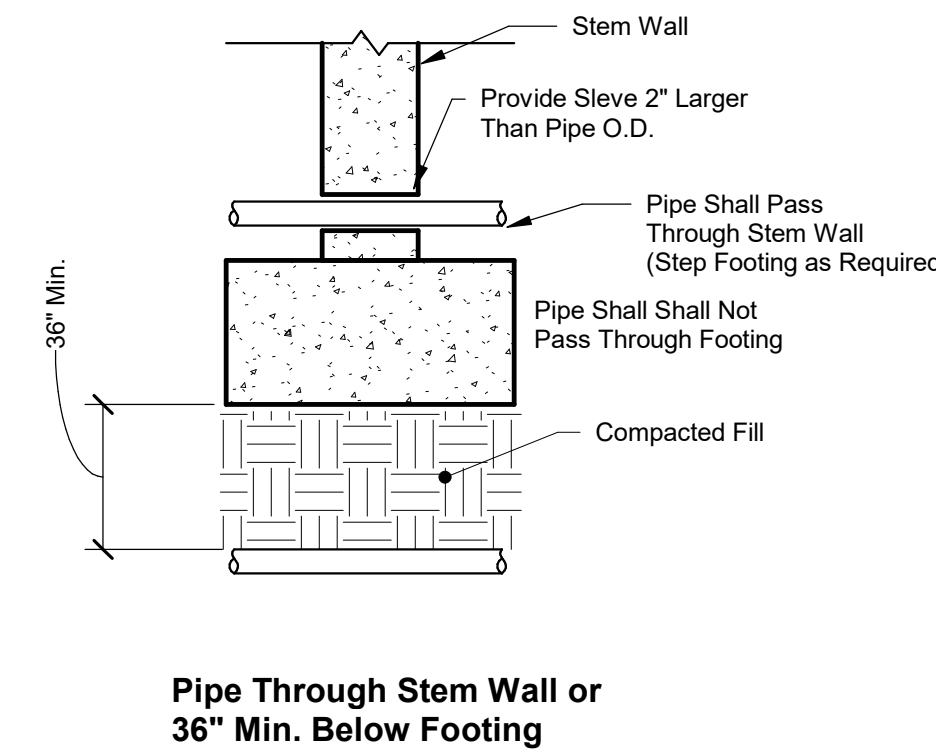
2 Footing @ Door / Window
3/4" = 1'-0"



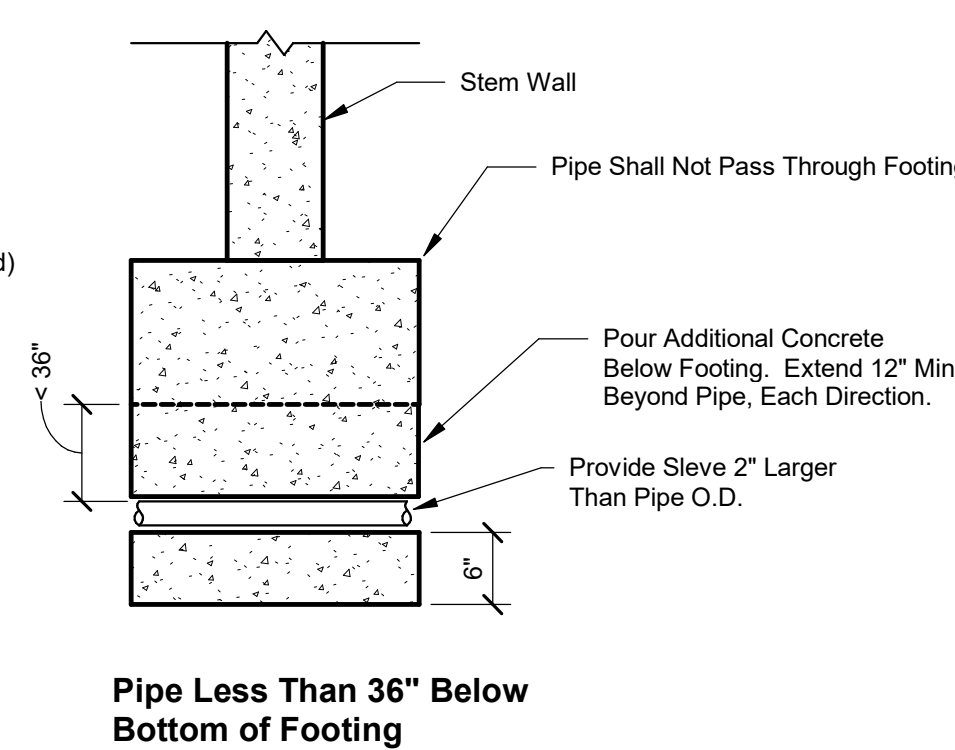
1 Footing at Slab Edge
3/4" = 1'-0"



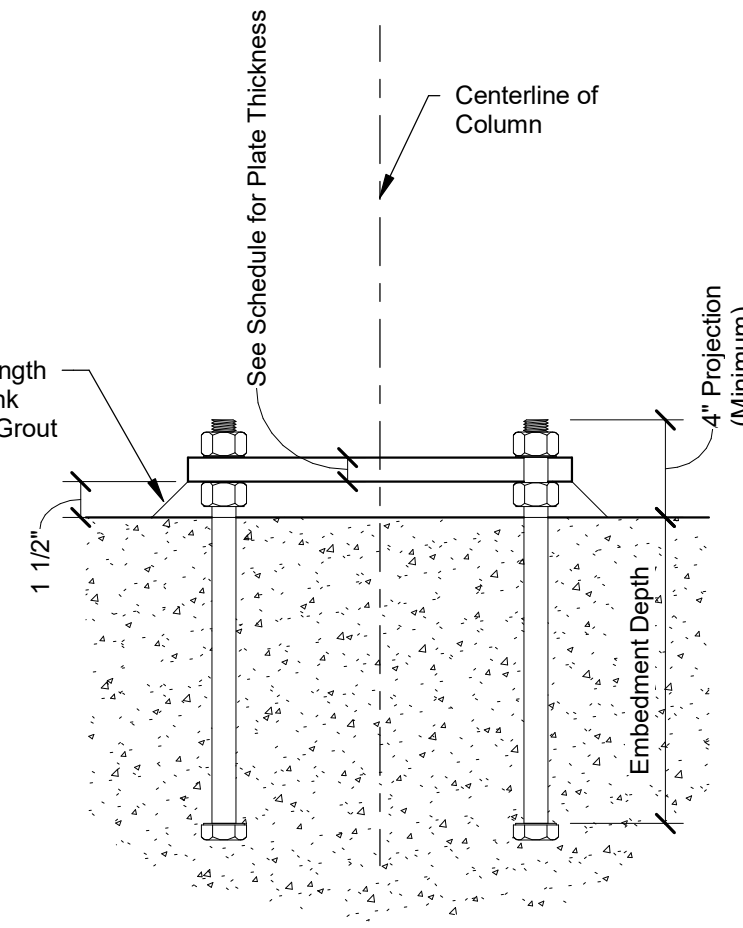
7 Typ. Footing Step Detail
3/4" = 1'-0"



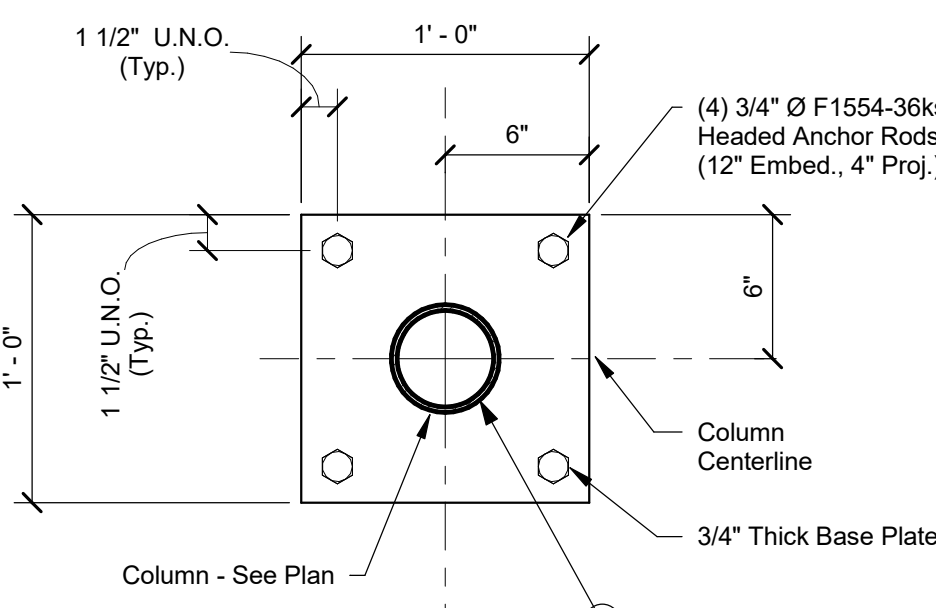
8 Typical Pipe @ Footing Detail
3/4" = 1'-0"



8 Typical Pipe @ Footing Detail
3/4" = 1'-0"

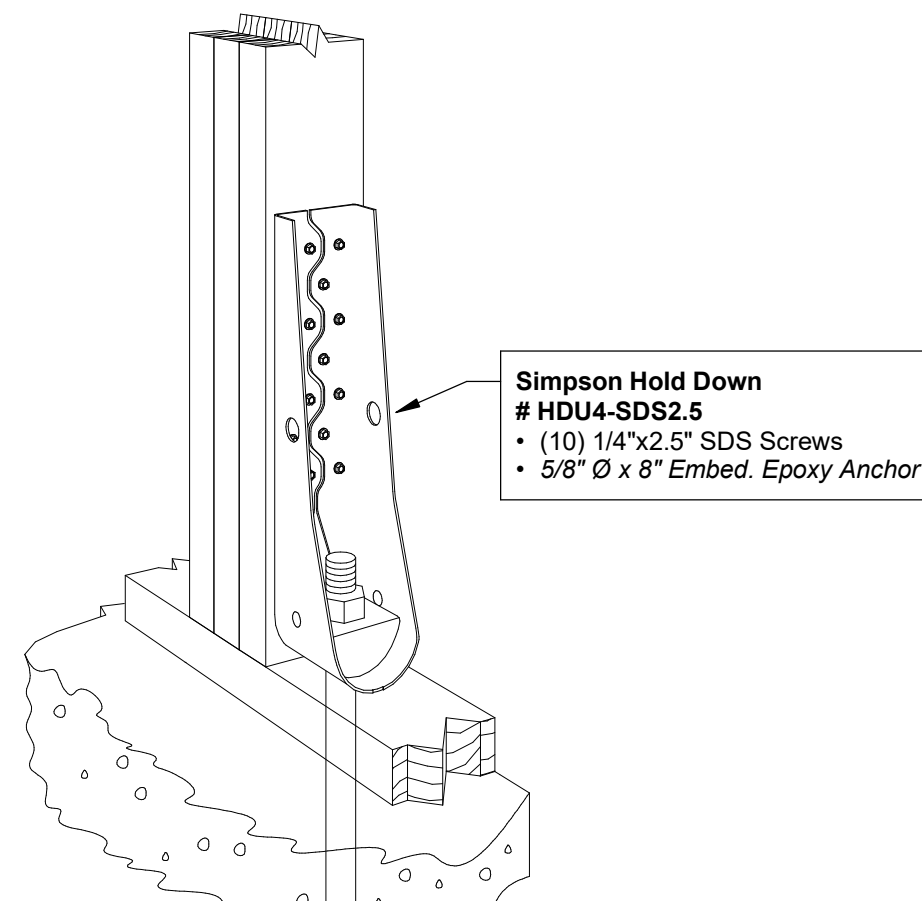


Section View

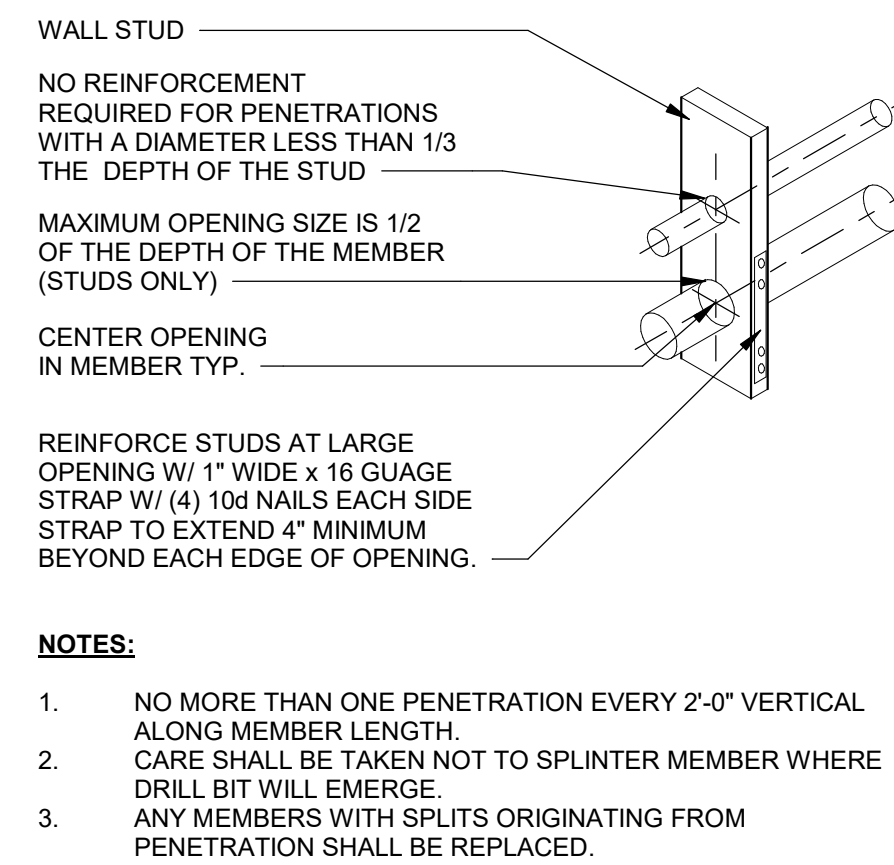


BP-1

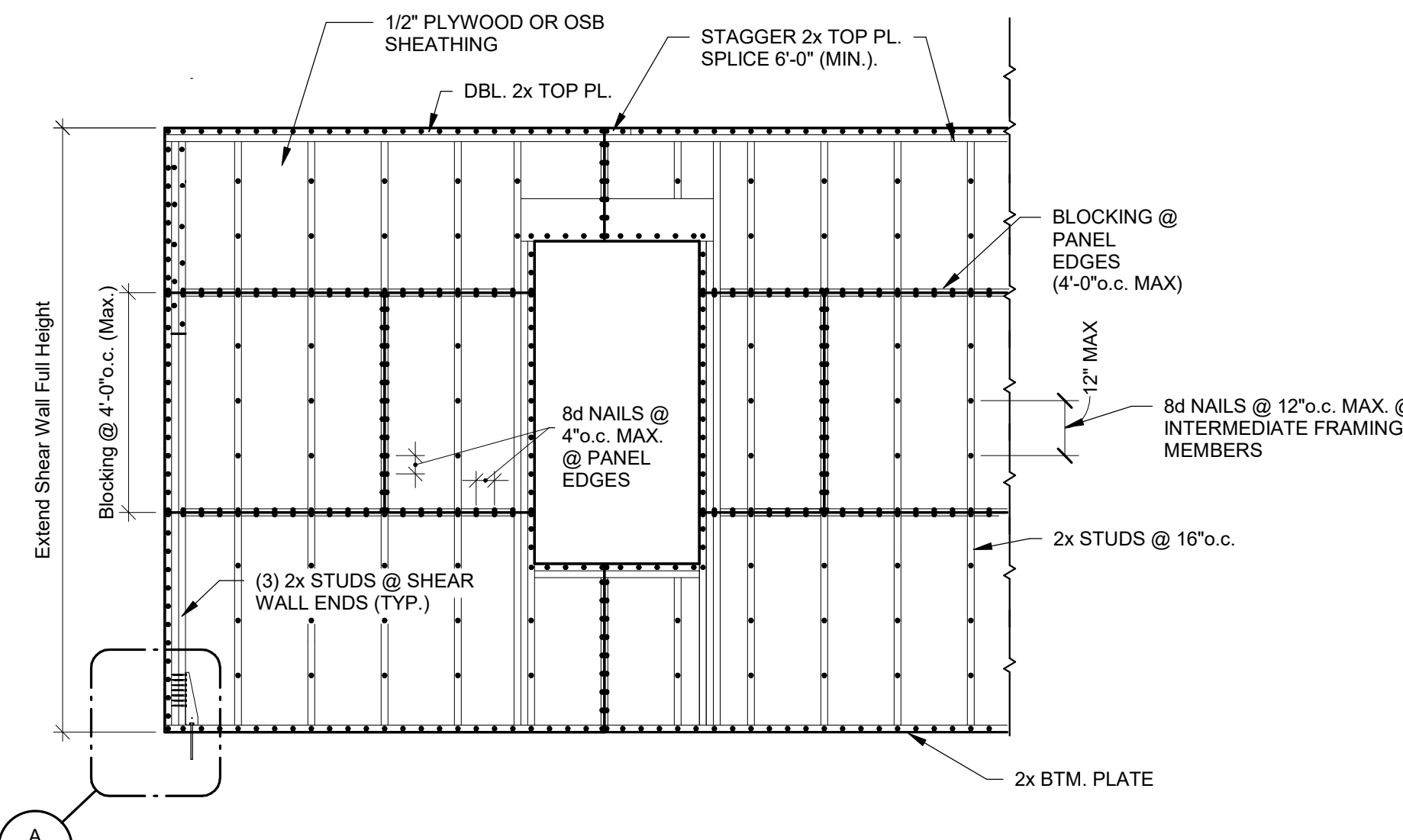
6 Typical Base Plate Detail
1 1/2" = 1'-0"



A Typical Shear Wall Hold Down
3/4" = 1'-0"

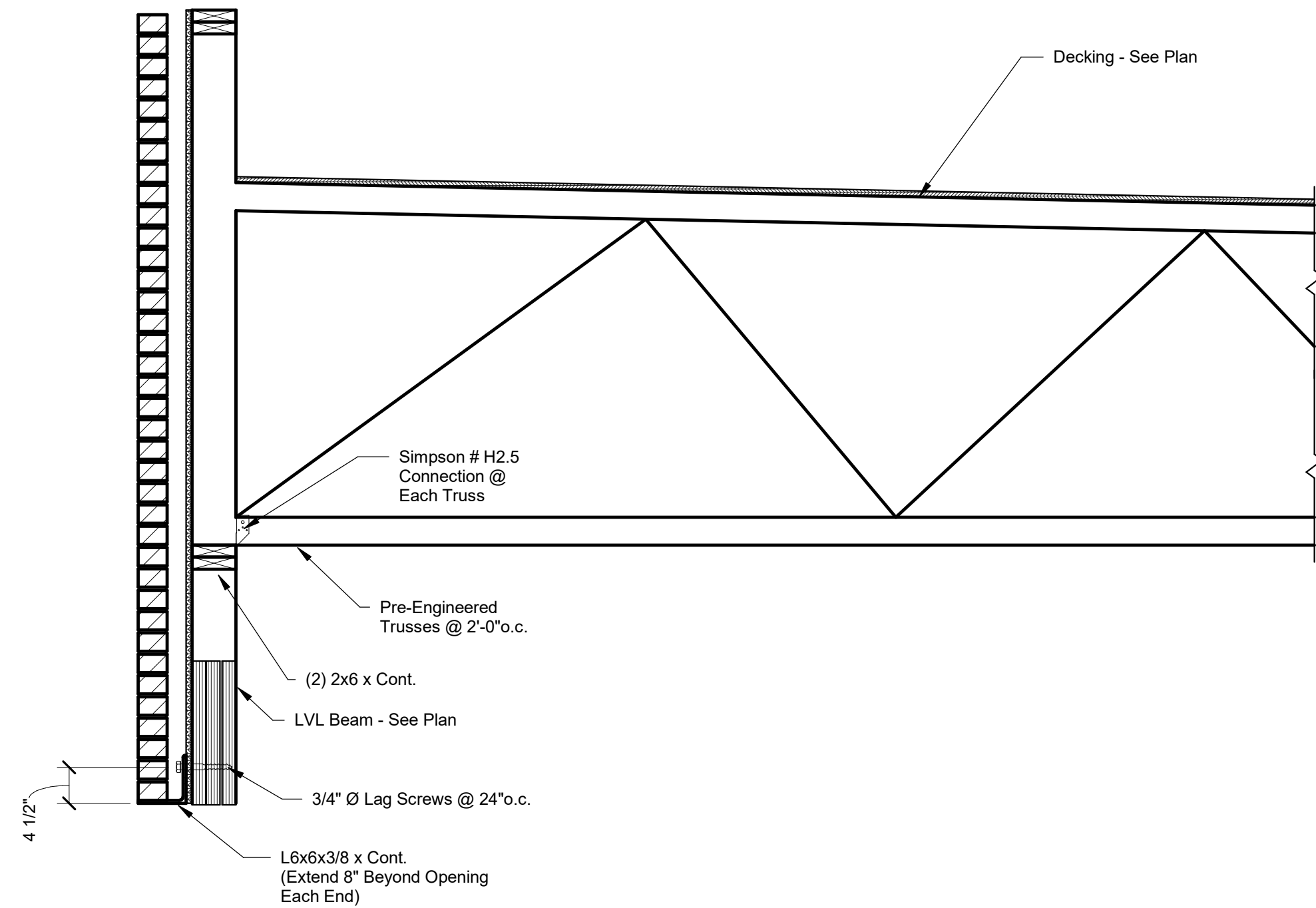


B Typ. Wall Stud Pipe Penetration Detail
3/4" = 1'-0"

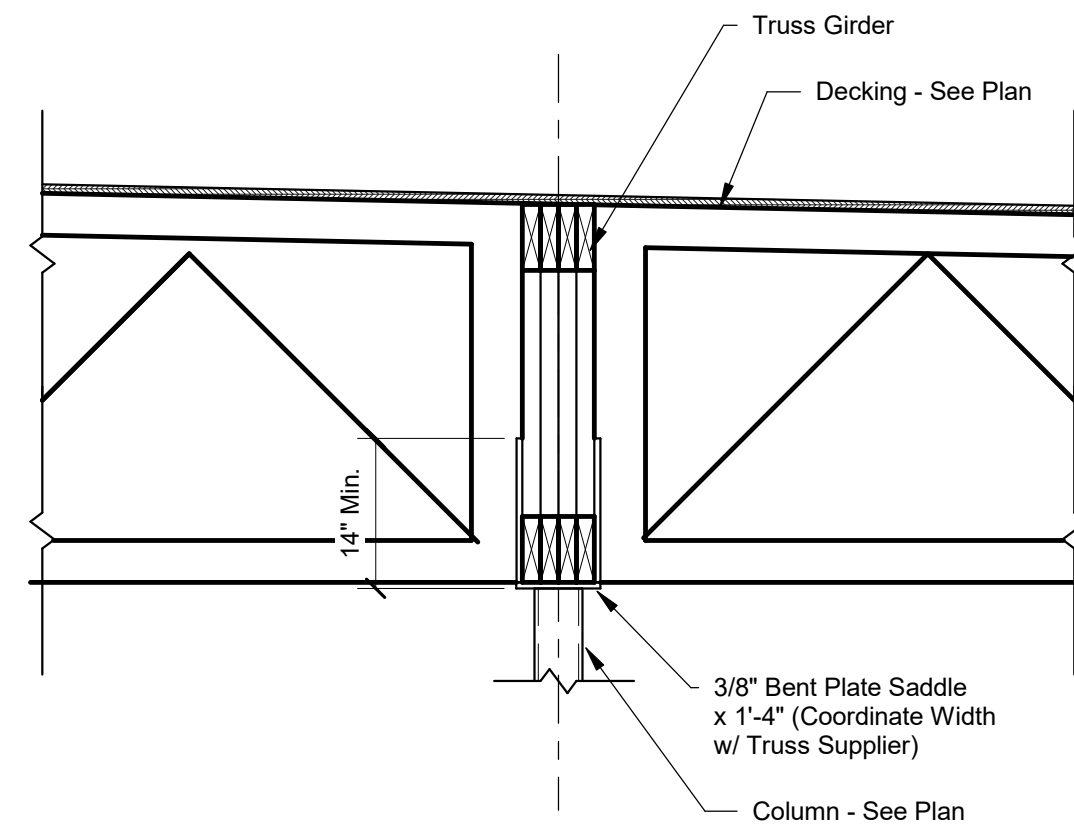


9 Shearwall Detail
3/8" = 1'-0"

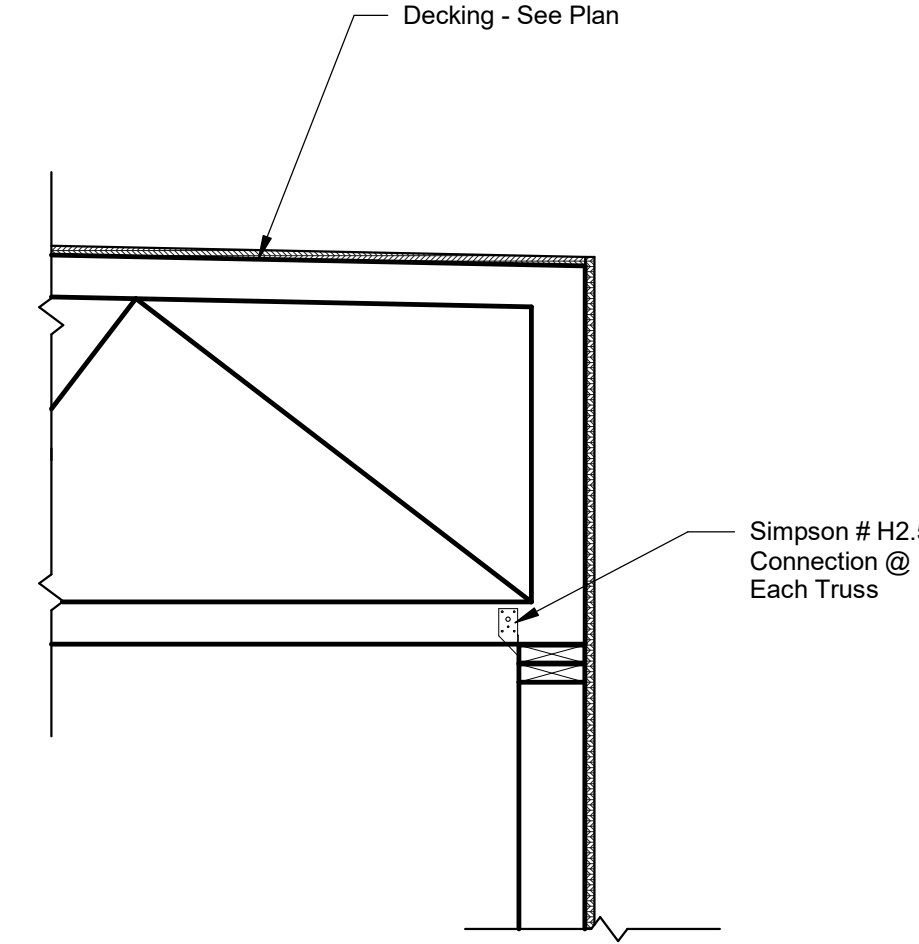
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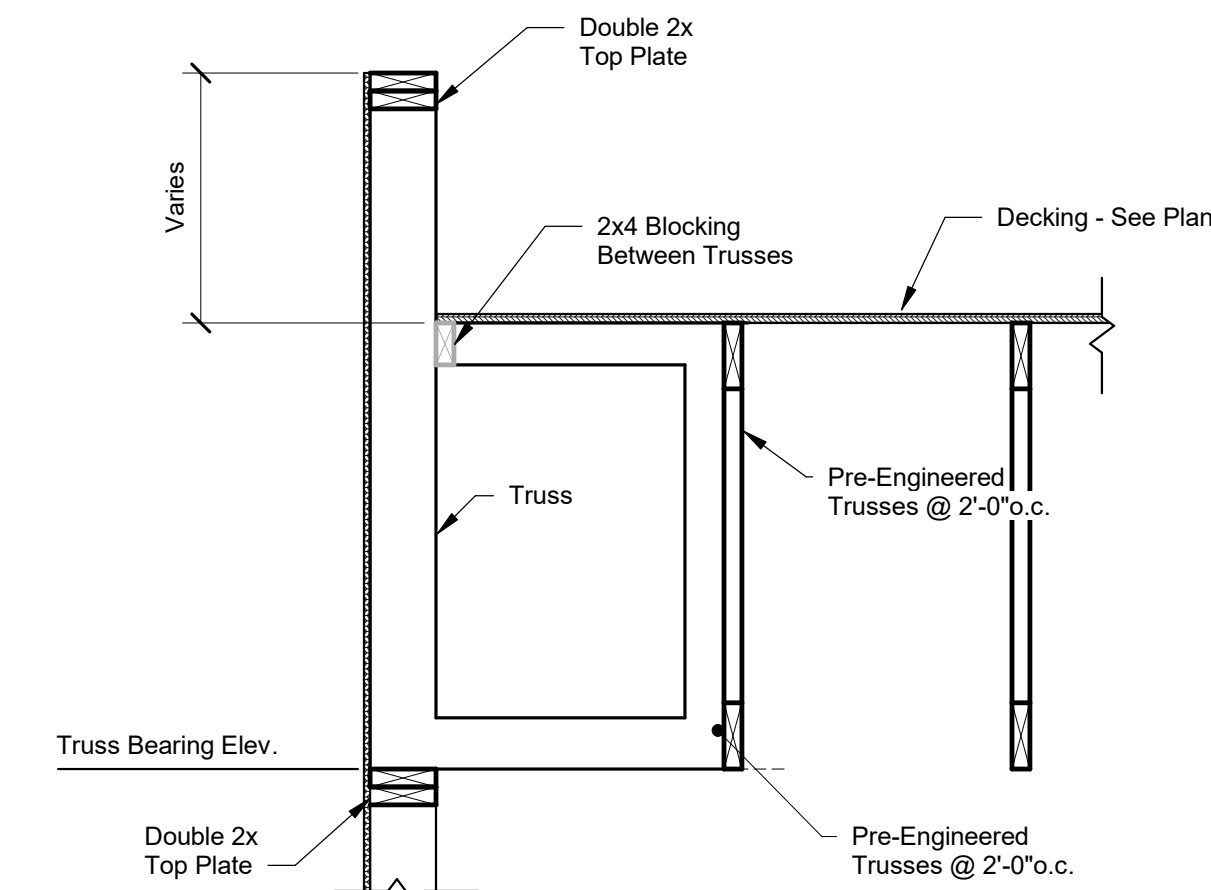
1 Roof at Front of Bldg
3/4" = 1'-0"



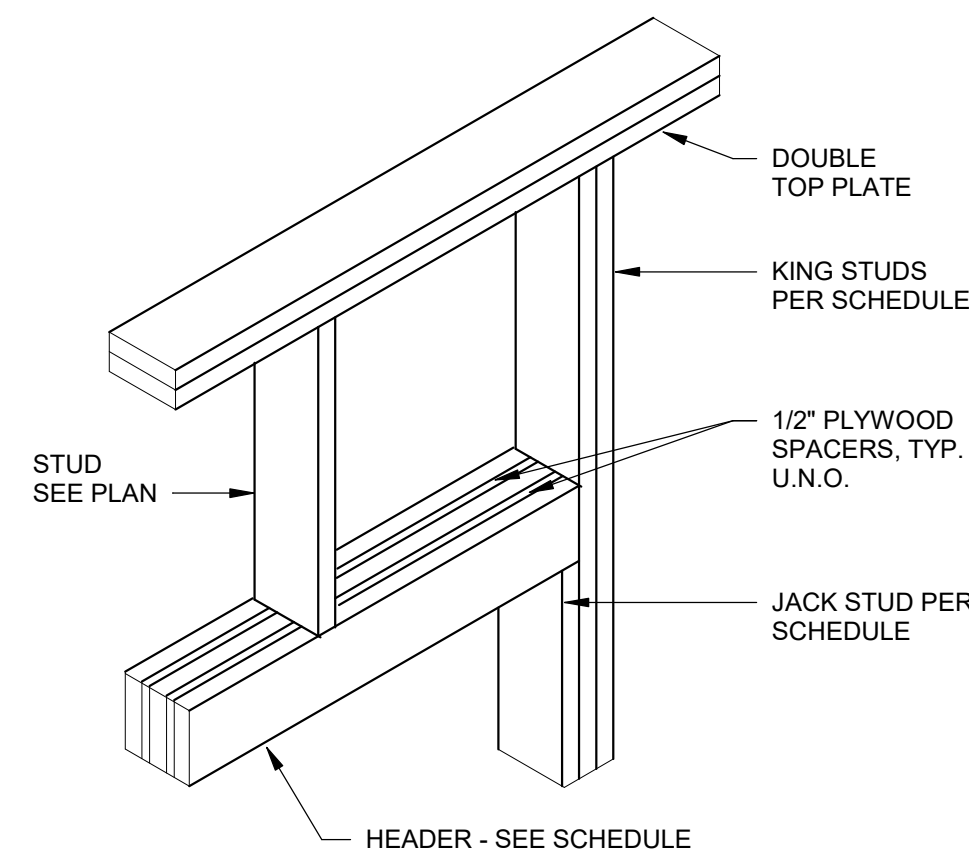
2 Section @ Girder Truss
3/4" = 1'-0"



3 Roof Truss at Rear
3/4" = 1'-0"

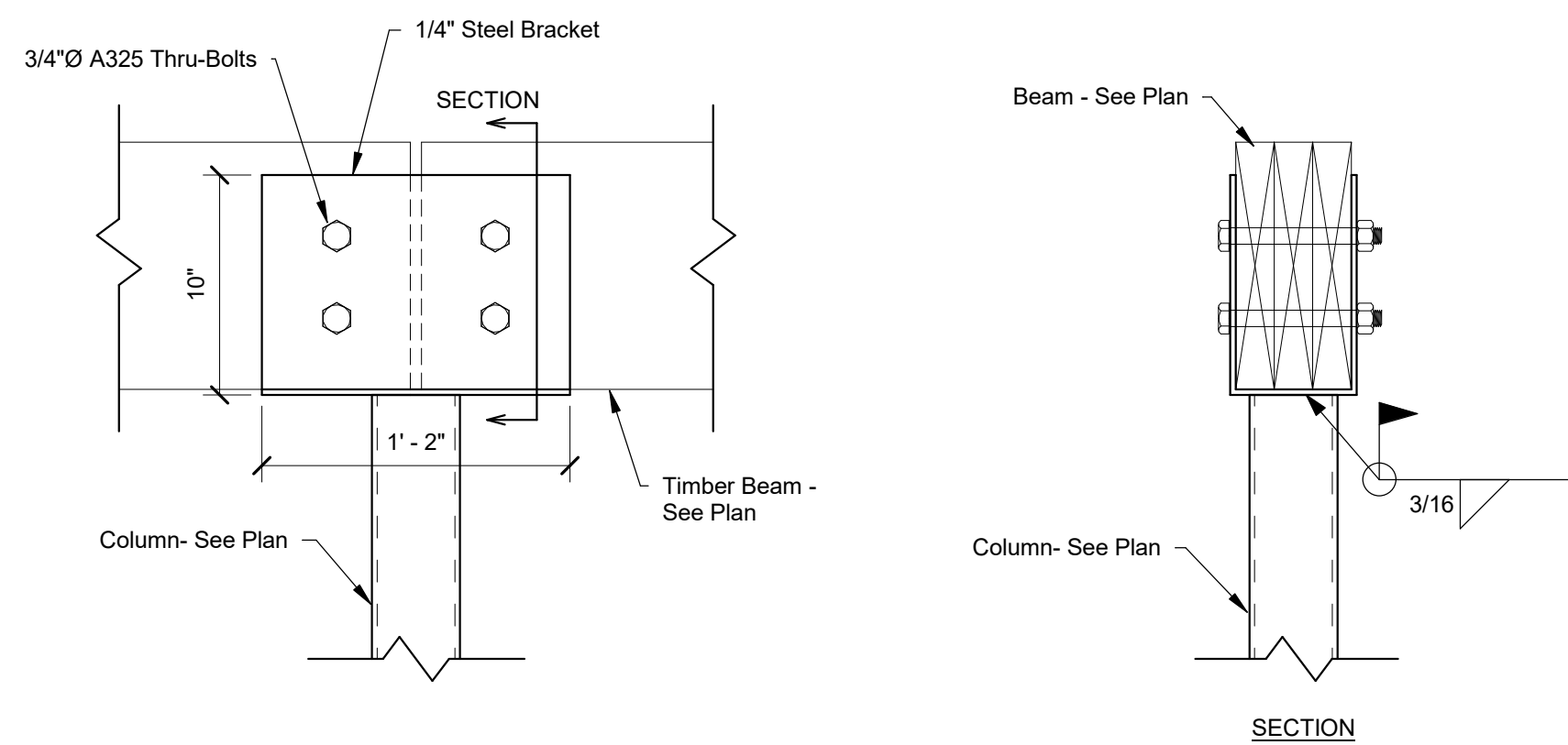


4 Roof Section @ Side
3/4" = 1'-0"

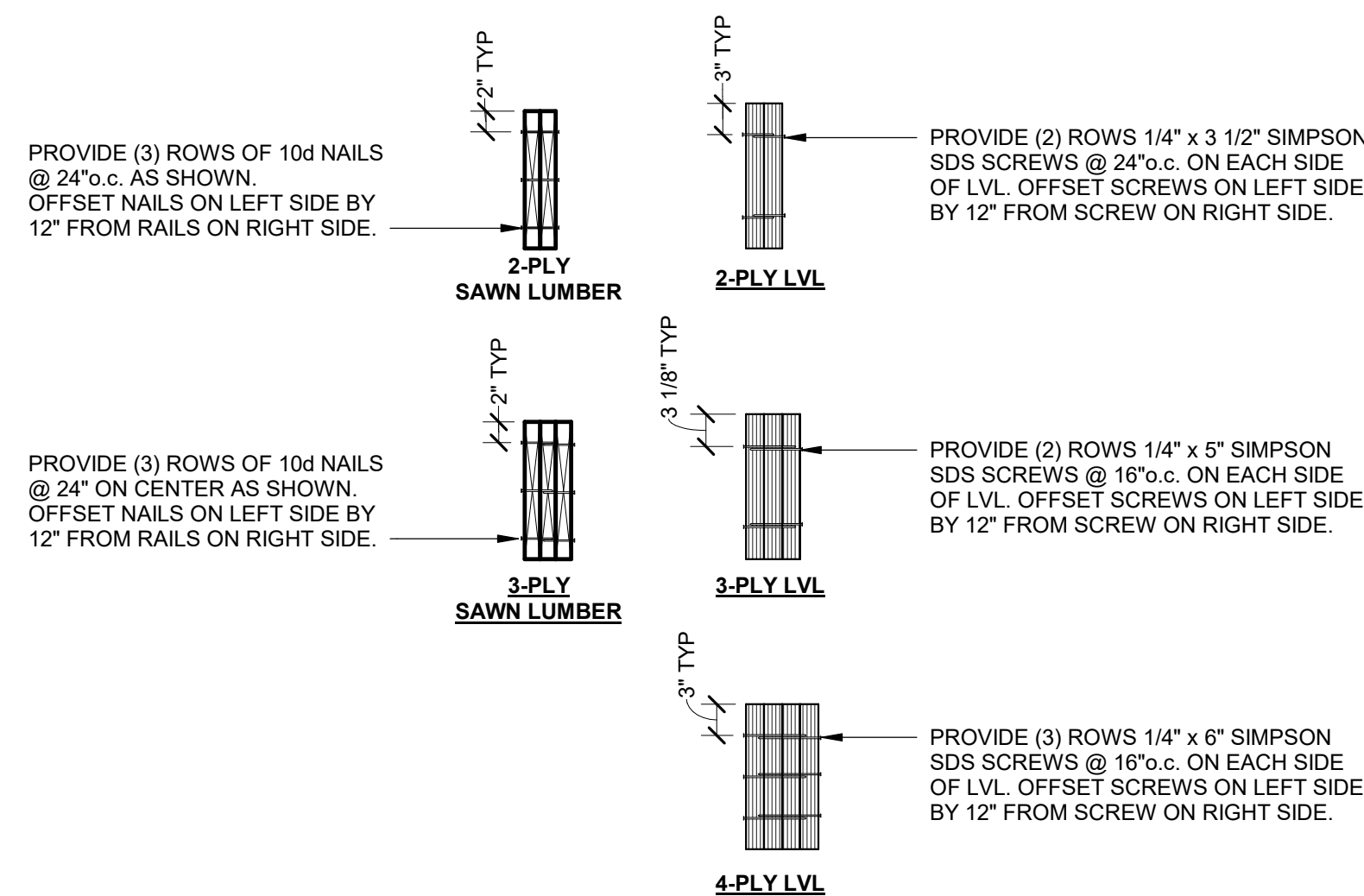


HEADER SIZE (2x6 Stud Wall)	Jack / King Studs
(3) 2x6	(1) Jack / (1) King
(3) 1 3/4" x 11 1/4" LVL	(2) Jack / (2) King
(3) 1 3/4" x 18" LVL	(3) Jack / (2) King

5 Typical Header
3/4" = 1'-0"



6 Steel Saddle
1 1/2" = 1'-0"



A Typ. Detail @ Wood Beams
3/4" = 1'-0"

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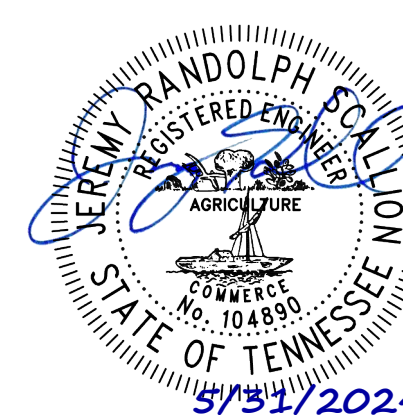
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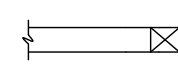
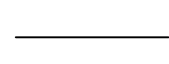
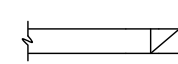
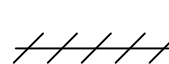
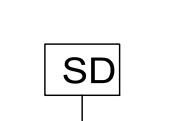
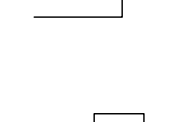
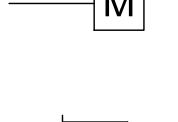
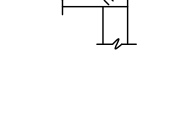
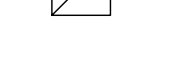
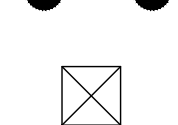
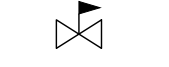
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SSE #24-028

REVISIONS	
NO.	Change

PROJECT NUMBER	420
SCALE	AS SHOWN
SHEET NUMBER	S5.0
DATE OF ORIGINAL ISSUE	5/31/2024

LPG	LOW PRESSURE GAS (0.5 PSIG)	AC-1	AIR CURTAIN
HPG	HIGH PRESSURE GAS (5 PSIG)	SA	SUPPLY AIR
DX	DIRECT EXPANSION	SAD	SUPPLY AIR DUCT
ESP	EXTERNAL STATIC PRESSURE	TAD	TRANSFER AIR DUCT
LAT	LEAVING AIR TEMPERATURE	AFF	ABOVE FINISHED FLOOR
EAT	ENTERING AIR TEMPERATURE	CFM	CUBIC FEET PER MINUTE
EF-1	EXHAUST FAN	TYP	TYPICAL
DN	DOWN	8Ø	ROUND DUCTWORK
OSA	OUTSIDE AIR	RTU-1	PACKAGED ROOFTOP UNIT
EAD	EXHAUST AIR DUCT	H-1	KITCHEN EXHAUST HOOD
RA	RETURN AIR	10x6	RECTANGULAR DUCT (WIDTHxDEPTH)
RAD	RETURN AIR DUCT	UH-1	ELECTRIC UNIT HEATER

	SUPPLY DUCT IN SECTION		NEW WORK
	RETURN/EXHAUST DUCT IN SECTION		EXISTING WORK TO BE REMOVED
	SMOKE DETECTOR		EXISTING WORK TO REMAIN
	VOLUME DAMPER		CONNECT NEW TO EXISTING
	MOTORIZED DAMPER		MANAUL PULL STATION
	TURNING VANES		DIFFUSER CFM AND TYPE
	FIRE DAMPER		RETURN/EXHAUST AIR DEVICE
	FIRE/SMOKE DAMPER		AIRFLOW DIRECTION
	SUPPLY DIFFUSER		THERMOSTAT
			PRV

Legend - Mechanical

NONE

- REFER TO LOCAL ADOPTED INTERNATIONAL BUILDING CODE.
- SEISMIC RESTRAINTS SHALL NOT BE REQUIRED FOR THE FOLLOWING INSTALLATIONS:
 - PIPING IN MECHANICAL ROOMS (EXCEPT GAS PIPING) LESS THAN 1-1/4 INCH INSIDE DIAMETER
 - ALL OTHER PIPING (EXCEPT GAS PIPING) LESS THAN 2-1/2 INCH INSIDE DIAMETER.
 - ALL RECTANGULAR DUCTS LESS THAN 6 SQ. FT. IN CROSS-SECTIONAL AREA.
 - ALL ROUND DUCTS LESS THAN 28 INCHES IN DIAMETER.
 - ALL PIPING SUSPENDED BY INDIVIDUAL HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.
 - ALL DUCTS SUSPENDED BY HANGERS 12 INCHES OR LESS IN LENGTH FROM THE TOP OF THE DUCT TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.

2 Seismic Notes - Mechanical

NONE

- FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- ATTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES.
- DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW FITTING AND DETAIL. INSTALL DUCTS, EQUIPMENT, PIPING, ETC., IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK; MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. ARRANGE EQUIPMENT INTO THE AVAILABLE SPACE IN A MANNER TO MAKE ALL WORKING PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
- MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTS FOR ONE YEAR.
- PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
- CONSTRUCT AIR DUCTS IN ACCORDANCE WITH SMACNA DUCT MANUALS LATEST EDITION.
- HVAC WORK INDICATED DIAGRAMMATICALLY, EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH STATE CODES, MANUFACTURER'S APPROVED PUBLISHED LITERATURE, AND AUTHORITIES HAVING JURISDICTION.
- INSTALLATION OF ALL EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT.
- COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
- FLEXIBLE DUCT RUNOUTS TO CEILING DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 3'-0".
- COMPLETION AND TESTS SHALL INCLUDE CLEANING AND LUBRICATION OF ALL EQUIPMENT, AND ADJUSTMENTS FOR PROPER OPERATION. ADJUST DAMPERS, REGISTERS AND DIFFUSERS FOR PROPER AIR DISTRIBUTION. CHECK SYSTEM UNDER ACTUAL OPERATING CONDITIONS AND MAKE ADJUSTMENTS FOR A UNIFORM TEMPERATURE THROUGH THE CONDITIONED SPACE.
- LOCATIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE FIELD CONDITIONS FOR THE EXACT LOCATION AND MODIFY DUCTS/PIPES ACCORDINGLY.
- CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATING. CONTRACTOR SHALL MODIFY DUCTWORK TO FIT AVAILABLE FIELD CONDITIONS.
- ALL MATERIAL INSTALLED IN RETURN AIR PLENUM SHALL HAVE FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
- INSTALL PLENUM RATED ELECTRICAL AND LOW VOLTAGE CABLE IN RETURN AIR PLENUM.
- SIZE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS FOR ACTUAL LINE LENGTHS AND VERTICAL LIFT REQUIRED.
- ALL EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE SEALED WATERPROOF.
- PROVIDE FIRESTOP WHERE PIPES, CONDUITS, BUS DUCTS, WIRES, DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT PENETRATING RATED FLOORS AND WALLS.
- ALL CEILING EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
- ALL DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.
- PROVIDE VOLUME DAMPERS AT EACH BRANCH TAKEOFF AND IN SUCH OTHER LOCATIONS WHERE REQUIRED TO PROPERLY BALANCE THE SYSTEM.
- PROVIDE INSTRUMENT TEST HOLES WITH CAPS IN AIR DISTRIBUTION SYSTEMS WHEREVER VOLUME DAMPER ARE REQUIRED.
- ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATIONS SHALL BE PROVIDED BY HVAC CONTRACTOR.
- ALL TRANSFER DUCTS SHALL BE INTERNALLY LINED.
- ALL MITERED ELBOWS SHALL BE PROVIDED WITH TURNING VANES. ALL ROUND ELBOWS SHALL HAVE A CENTER TO FACE DIMENSION OF 1.5 X THE DUCT WIDTH.
- CONTRACTOR SHALL FURNISH TESTING & BALANCING REPORT TO ENGINEER & OWNER PRIOR TO FINAL INSPECTION TO VERIFY REQUIRED PERFORMANCE HAS ACIEVED.
- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS UNLESS OTHERWISE NOTED.
- ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, DAMPERS, CONTROLS, ETC., AND SHALL BE FURNISHED UNDER ARCHITECTURAL SPECIFICATIONS.
- DUCTWORK AND RELATED SHEET METAL WORK:
 - CLASSIFICATION: LOW PRESSURE DUCTWORK SHALL BE LIMITED TO SYSTEMS OPERATING AT STATIC PRESSURES OF TWO INCHES OF WATER OR LESS AND HIGH PRESSURE DUCTWORK SHALL BE SYSTEMS OPERATING ABOVE TWO INCHES WATER COLUMN.
- MATERIALS: MATERIALS SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS. MATERIAL THICKNESS, AND DUCT CONSTRUCTION METHODS, UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS. THE GALVANIZED SHEET COATING SHALL BE G60 (Z180) CONFORMING TO ASTM A 653/A 653M. HIGH PRESSURE ROUND DUCTS SHALL BE MACHINE LUBRICATED SPIRAL LOCK SEAM TYPE. ROUND FITTINGS AND ROUND SPIRAL DUCT SHALL BE AS MANUFACTURED BY SHEET METAL CONNECTORS, INC; LINDAB, INC.; SPIRAL MANUFACTURING COMPANY, INC; OR EQUAL. GASKETS FOR HIGH PRESSURE DUCTS SHALL BE 3M TYPE 1202 OR EQUAL REINFORCED SYNTHETIC RUBBER SEALANT TYPE NOT LESS THAN 1/4 INCH THICK AND 3/8" WIDE; LIQUID DUCT SEALANT SHALL BE BRUSH OR FLOW GUN GRADE WHICH REMAINS FLEXIBLE AFTER AIR CURING, 3M TYPE 800 OR EQUAL.
- CONSTRUCTION: CONSTRUCT DUCTWORK (EXCEPT FLEXIBLE DUCTING) WITH CAREFUL, NEAT, AND ACCURATE WORKMANSHIP, AND AIRTIGHT JOINTS AND SEAMS. CONSTRUCT DUCTWORK AND INSTALL IN ACCORDANCE WITH LATEST EDITIONS OF SMACNA'S "LOW VELOCITY DUCT CONSTRUCTION STANDARDS" OR AS APPLICABLE TO CLASSIFICATION OF DUCTWORK INVOLVED, INCLUDING ALL APPLICABLE RECOMMENDATIONS OF THESE STANDARDS.
- ALL DUCTWORK SHALL BE INSULATED EXTERNALLY WITH TWO INCH FLEXIBLE FIBERGLASS DUCT WRAP. INSULATION SHALL COMPLY WITH ANSI/ASTM C612; COMMERCIAL GRADE; 'K' VALUE OF 0.29 AT 75 °F. PROVIDE A 0.002 INCH FOIL SCRIM FACING FOR DUCTWORK INSULATION. SECURE INSULATION WITH VAPOR BARRIER WITH WIRES AND SEAL JACKET JOINTS WITH VAPOR BARRIER ADHESIVE OR TAPE TO MATCH JACKET. SECURE INSULATION WITHOUT VAPOR BARRIER WITH STAPLES, TAPE, OR WIRES. RETURN AIR DUCTS SHALL BE INSULATED W/ 1" ACOUSTICAL DUCT LINER, 1.5 PCF MIN. DENSITY.
- GAS PIPING - STEEL PIPE: ASTM A 53/A 53M, BLACK STEEL, SCHEDULE 40, TYPE E OR S, GRADE B.
- MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150, STANDARD PATTERN.
- WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M FOR BUTT WELDING AND SOCKET WELDING.
- UNIONS: ASME B16.39, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRON SEAT, GROUND JOINT, AND THREADED ENDS. PIPING 3/4" TO 2" FOR SYSTEMS WITH OPERATING PRESSURE OF 2 PSIG OR LESS SHALL HAVE THREADED JOINTS. PIPING OVER 2" WITH AN OPERATING PRESSURE OF 2 PSIG OR LESS SHALL HAVE WELDED JOINTS. ALL PIPING WITH AN OPERATING PRESSURE OVER 2 PSIG SHALL BE WELDED.

3 Specifications - Mechanical

NONE

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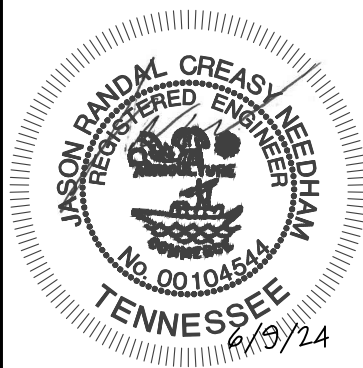
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Bartlett, TN



REVISIONS

NO.	Date

PROJECT NUMBER

4202

SCALE

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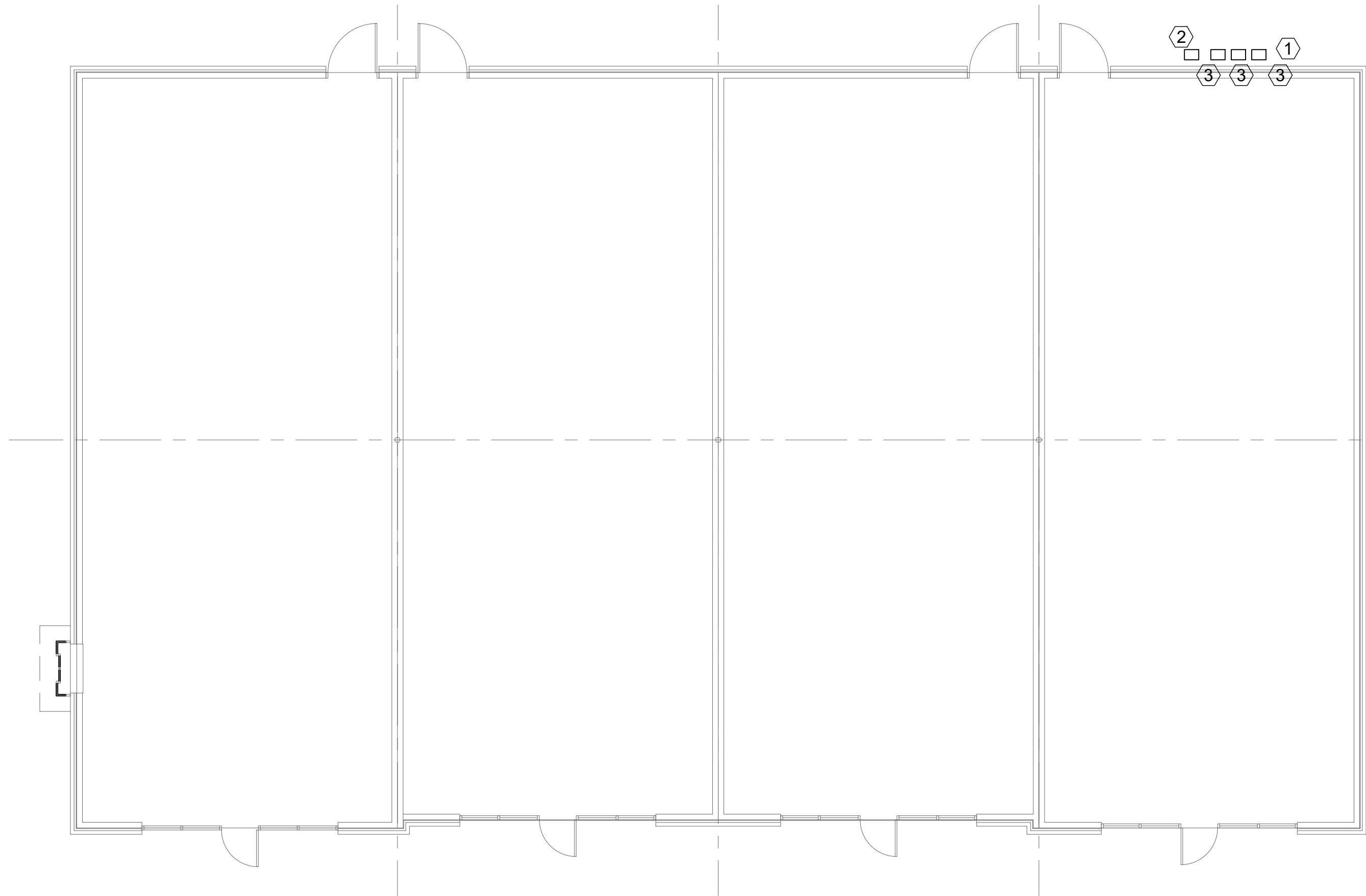
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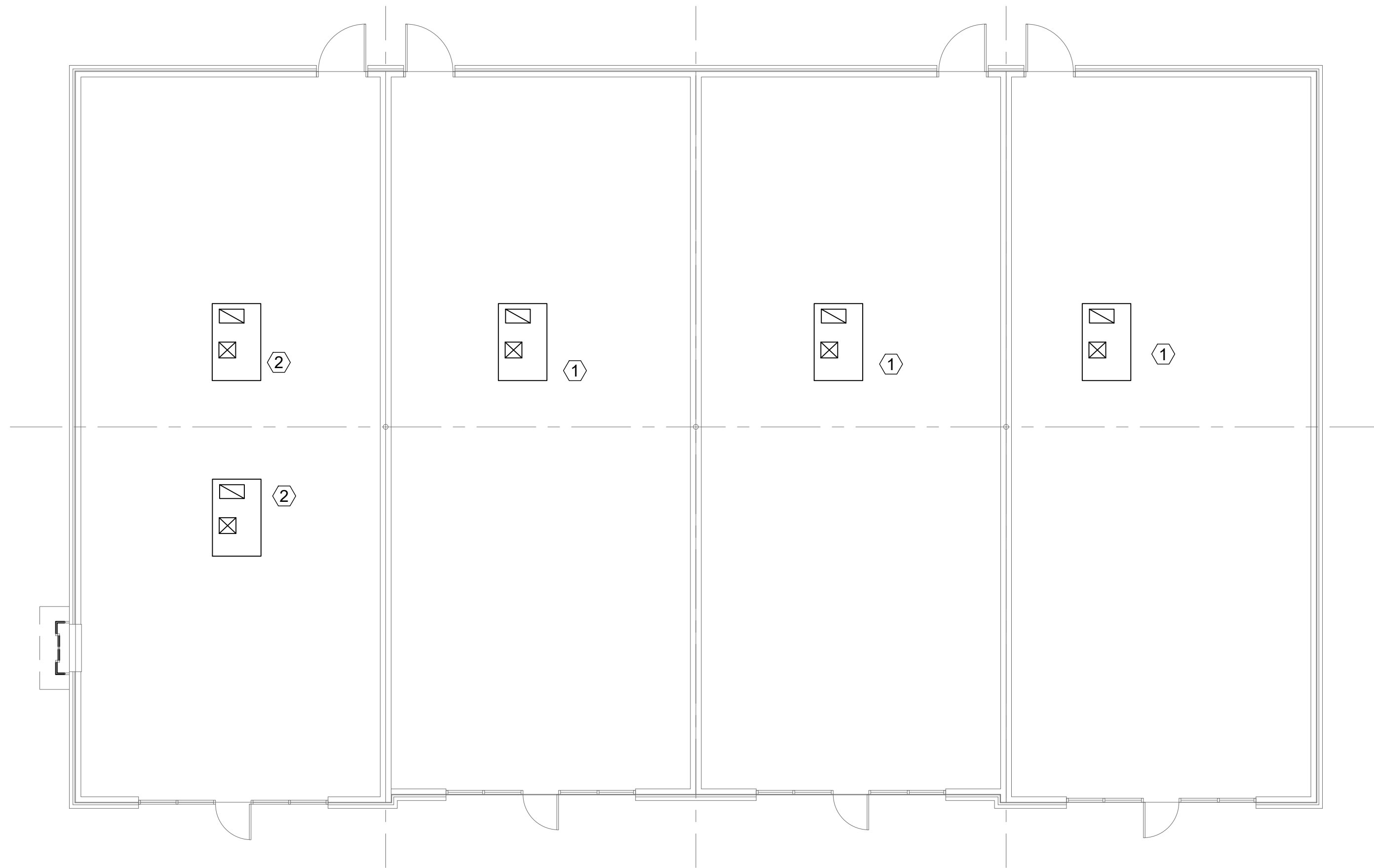
6/9/2024



KEYNOTES:

- ① CONTRACTOR TO COORDINATE WITH LOCAL UTILITY FOR NEW GAS METER AND PAY FOR ALL INCURRED COST.
- ② GAS SERVICE FOR RESTURAUNT TO BE SIZED FOR 1000 CFH AT 2 PSIG. PROVIDE PRV AND SEISMIC ISOLATION VALVE AS REQUIRED. EXTEND 2" GAS UP WALL TO ROOF. PAINT ALL EXPOSED PIPING TO MATCH EXTERIOR WALL.
- ③ METER FOR TENANT SPACE TO BE SIZED FOR 150 CFH AT 0.5 PSIG. PROVIDE PRV AND SEISMIC ISOLATION VALVE AS REQUIRED. EXTEND 1 1/4" GAS UP WALL TO ROOF. PAINT ALL EXPOSED PIPING TO MATCH EXTERIOR WALL.

FLOOR PLAN — MECHANICAL
1/8"=1'-0"



KEYNOTES:

- ① MECHANICAL CONTRACTOR SHALL PROVIDE CURB FOR FUTURE 5 TON TRANE RTU
- ② MECHANICAL CONTRACTOR SHALL PROVIDE CURB FOR FUTURE 7.5 TON TRANE RTU

FLOOR PLAN — MECHANICAL
1/8"=1'-0"

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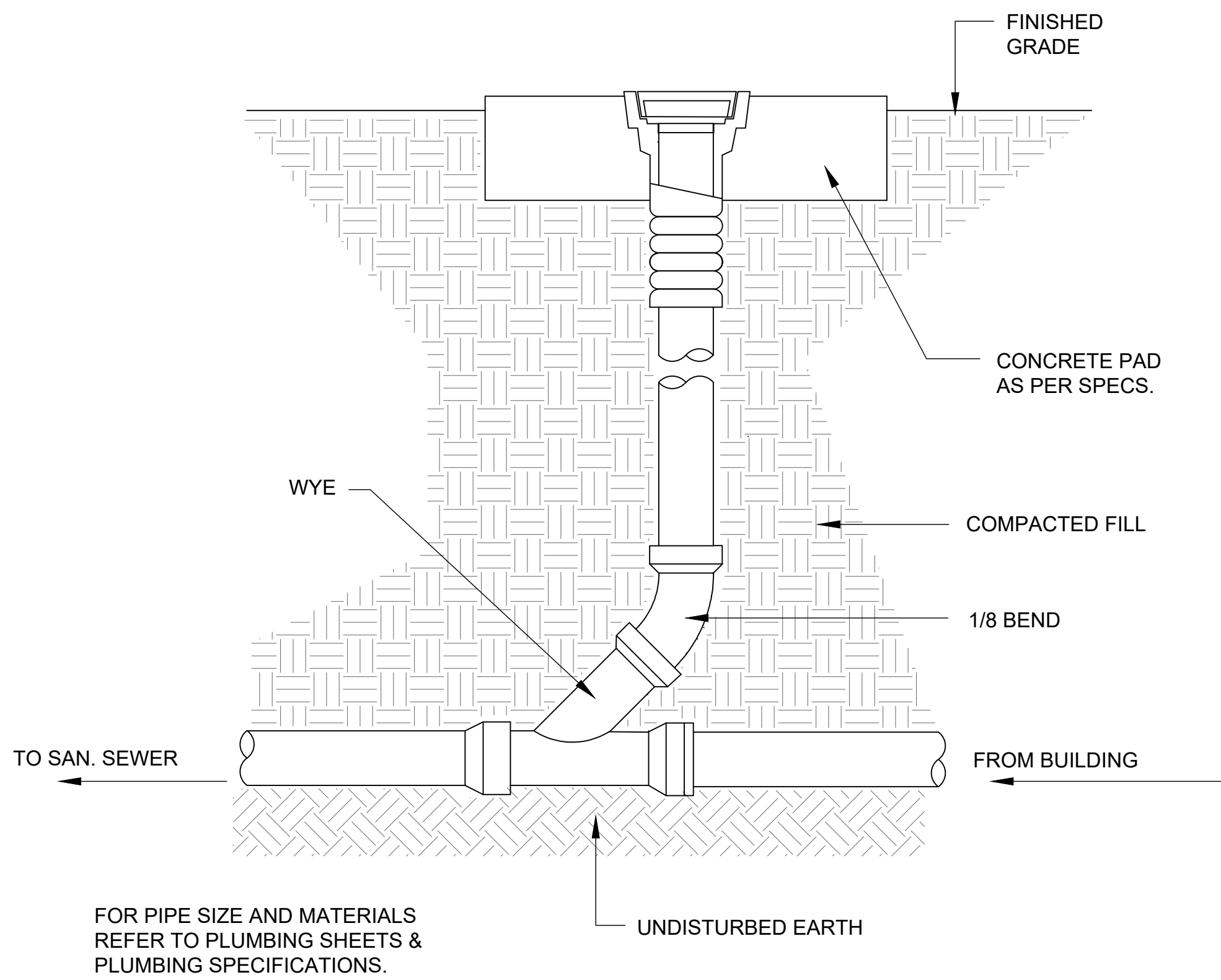
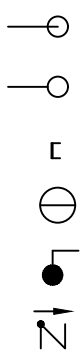
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6/9/2024

- SANITARY WASTE (SW)
————— SANITARY VENT (SV)
- - - - - COLD WATER (CW)
- AFF ABOVE FINISHED FLOOR
CO CLEANOUT
ELEV ELEVATION
FCO FLOOR CLEANOUT
TYP TYPICAL

LEGEND

- PIPE DOWN
PIPE UP
CAP
BALANCING VALVE
BALL VALVE
CHECK VALVE



1 GRADE CLEANOUT DETAIL
Not To Scale

SYSTEM	PIPE SCHEDULE			
	ABOVE GRADE	BELOW GRADE	JOINTS	INSULATION
SANITARY	SCH 40 PVC	SCH 40 PVC	SOLVENT WELD	
VENT	SCH 40 PVC	SCH 40 PVC	SOLVENT WELD	
CW	TYPE L COPPER OR PEX	TYPE K COPPER	LEAD FREE NICKEL BEARING SOLDER	1/2" FIBERGLASS WITH ASI
HW	TYPE L COPPER OR PEX	TYPE K COPPER	LEAD FREE NICKEL BEARING SOLDER	1/2" FIBERGLASS WITH ASI
CONDENSATE	SCH 40 PVC, COPPER IN PLENUM RETURN	SCH 40 PVC	PVC SOLVENT WELD COPPER SOLDER	1/2" FIBERGLASS WITH ASI

GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY EXACT CONDITIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES INVOLVED TO AVOID ANY PIPE ROUTING PROBLEMS. IN THE EVENT CONFLICTS ARE ENCOUNTERED WHICH CANNOT BE RESOLVED BY THE TRADES INVOLVED, THE ARCHITECT SHALL BE CONSULTED AND HIS DECISION SHALL GOVERN.
- IF ANY DISRUPTION OF SERVICES IS EXPECTED, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS AHEAD OF DISRUPTION.
- CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. CONTRACTOR SHALL INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS FURNISHING CUTOFF VALVES, P-TRAPS, PRESSURE REDUCING VALVES, AND PIPING AS REQUIRED.
- ALL SANITARY VENT TERMINATIONS SHALL BE A MINIMUM OF 25'-0" AWAY FROM ALL FRESH AIR INTAKES FOR MECHANICAL UNITS.
- CONTRACTOR SHALL PROVIDE INCREASERS ON SANITARY VENT PIPING PENETRATIONS THROUGH THE ROOF WHERE REQUIRED BY CODE.
- ALL FIXTURES, EQUIPMENT AND PIPING SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
- PENETRATIONS THROUGH NEW WALLS AND FLOORS SHALL BE SLEEVED AND/OR PATCHED AS DIRECTED BY THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
- ALL NEW PIPE PENETRATIONS OF FIRE RATED WALLS, AS SHOWN BY THE LIFE SAFETY PLANS, SHALL HAVE A UL LISTED F RATING EQUAL TO THE WALL FIRE RATING. REFER TO THE WALL PENETRATION DETAILS FOR FURTHER INFORMATION.
- CONTRACTOR TO SEISMICALLY BRACE ALL PIPE AS REQUIRED BY LOCAL CODE REQUIREMENTS.
- PIPING SHALL NOT BE INSTALLED OVER ELECTRICAL EQUIPMENT.
- EXACT LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR. ALL REQUIRED CONDENSATE PIPING SHALL BE COORDINATED WITH THIS EQUIPMENT.
- SANITARY SEWER PIPING SHALL BE SLOPED AS FOLLOWS: 4" SANITARY WASTE PIPING AND LARGER SHALL BE ROUTED AT 1/8" PER FOOT MINIMUM. 3" SANITARY WASTE PIPING AND SMALLER SHALL BE ROUTED AT 1/4" PER FOOT MINIMUM.
- CONTRACTOR SHALL ESTABLISH A SEQUENCE OF INSTALLATION WITH OTHER TRADES WORKING ON THE PROJECT. CONTRACTOR SHALL THOROUGHLY COORDINATE ALL SYSTEMS WITH OTHER TRADES.
- CATHODIC PROTECTION, IF REQUIRED, IS THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL PROTECT ALL UNDERGROUND METALLIC PIPING FROM CORROSION. REFER TO SOILS REPORT. UNDERGROUND PIPING MAY ALSO BE PROTECTED WITH POLYETHYLENE ENCASEMENT CONFORMING TO ANSI/AWWA REQUIREMENTS. ALL PIPING SHALL BE WRAPPED COMPLETELY WITH ENCASEMENT TO A POINT AT LEAST 12 A.F.G OR FIN. FLOOR. ENCASEMENT SHALL BE FREE OF TEARS WITH ALL JOINTS COMPLETELY SEALED. NO PORTION OF THE PIPE SHALL BE LEFT EXPOSED TO CORROSIVE SOIL.
- PROVIDE ALL REQUIRED PRV'S, VALVES, AND GUAGES AS REQUIRED BY LOCAL CODES AND PER MANUFACTURER'S REC.
- DRAINAGE AND WATER PIPING SHALL BE TESTED PER CODE.
- USE DIELECTRIC FITTINGS AND UNIONS ON UNSIMILAR MATERIALS.
- BALL VALVES SHALL BE BE RATED MIN 125 PSIG AND BE FULL PORT 2 PIECE WITH SS BALL.

SPECIFICATIONS - PLUMBING

- A. MATERIALS AND WORKMANSHIP
- THE PLUMBING PLANS ARE DIAGRAMMATIC AND NOT TO BE SCALED.
 - THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS, AND SHALL FIT THE WORK ACCURATELY TO THE BUILDING.
- B. PERMITS AND FEES
- THE CONTRACTOR SHALL MAKE APPLICATION, AND PAY ALL RELATED FEES AND COSTS FOR PERMITS, INSPECTIONS, AND TESTS AS REQUIRED BY THE LOCAL AUTHORITY. INCLUDE COSTS IN CONTRACT PRICE.
- D. DRAINAGE SYSTEMS
- FURNISH AND INSTALL ALL SOIL, WASTE, VENT, AND DRAIN PIPING AS INDICATED.
 - ALL ABOVE GRADE STORM DRAIN, SOIL, WASTE, VENT, AND DRAIN PIPING SHALL BE SERVICE WEIGHT NO-HUB CAST IRON OR DWV SCH. 40 PVC. FIXTURE PIPING EXPOSED IN FINISHED AREAS SHALL BE CHROME PLATED BRASS. FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
 - INDIRECT WASTE AND CONDENSATE DRAIN PIPING SHALL BE DWV COPPER. ALL FITTINGS SHALL BE DRAINAGE PATTERN AND OF THE SAME MATERIAL AS THE PIPING.
 - SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE SUBJECTED TO A WATER TEST OF NOT LESS THAN TEN FEET OF HYDROSTATIC HEAD FOR A PERIOD OF NOT LESS THAN THIRTY MINUTES PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.
- E. WATER PIPING (DOMESTIC)
- HOT, HOT RETURN, AND COLD WATER PIPING SHALL BE TYPE PEX
 - FITTINGS SHALL BE PEX.
 - TEST WATER PIPING AT 125 PSI FOR A PERIOD OF 24 HOURS PRIOR TO THE CONNECTION TO THE EXISTING SYSTEM.
- F. PIPE JOINTS
- JOINTS IN CAST-IRON SOIL, WASTE AND VENT PIPING ABOVE GRADE SHALL BE MADE WITH NO-HUB CLAMPS.
 - JOINTS IN DWV PVC PIPING SHALL BE MADE WITH SOLVENT WELD.
 - JOINTS IN COPPER PIPING ABOVE GRADE SHALL BE SOLDERED JOINTS MADE WITH GRADE 95 TA LEAD-FREE SOLDER WITH A NON-CORROSIVE, PETROLEUM-BASED FLUX AS RECOMMENDED BY THE PIPE MANUFACTURER.
 - JOINTS IN STEEL PIPING SHALL BE THREADED AND MADE WITH STANDARD FITTINGS WITH A WORKING PRESSURE OF 165 PSI.
 - JOINTS BETWEEN PIPING OF DISSIMILAR MATERIALS SHALL BE MADE USING DIELECTRIC UNIONS.
- G. BALL VALVES
- VALVES SHALL BE BRONZE OR BRASS THROUGHOUT.
 - VALVES SHALL BE RATED FOR 125 PSI, AND BE MADE BY NIBCO OR EQUAL.
- H. INSULATION
- COLD WATER AND CONDENSATE DRAIN PIPING ABOVE GRADE SHALL BE COVERED WITH 1/2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.
 - HOT WATER SUPPLY AND RETURN PIPING ABOVE GRADE SHALL BE COVERED WITH 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET.
- I. HANGERS
- HANGERS FOR COPPER PIPING SHALL BE CLEVIS OR SPLIT-RING AS MANUFACTURED BY GRINNELL OR EQUAL, AND SHALL BE COPPER-CLAD OR PVC-COATED TO PREVENT GALVANIC CORROSION.
 - HANGERS FOR SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE CLEVIS HANGERS AS MANUFACTURED BY GRINNELL OR EQUAL.
- J. CLEAN-UP
- AFTER ALL FIXTURES HAVE BEEN SET, INSPECTED, AND TESTED THEY SHALL BE THOROUGHLY CLEANED BY THE PLUMBING CONTRACTOR PRIOR TO LEAVING THE SITE.

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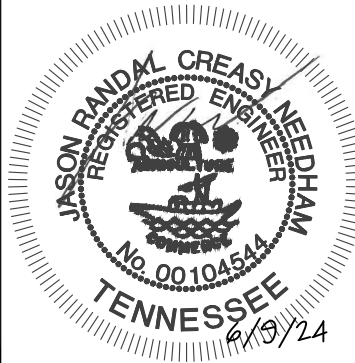
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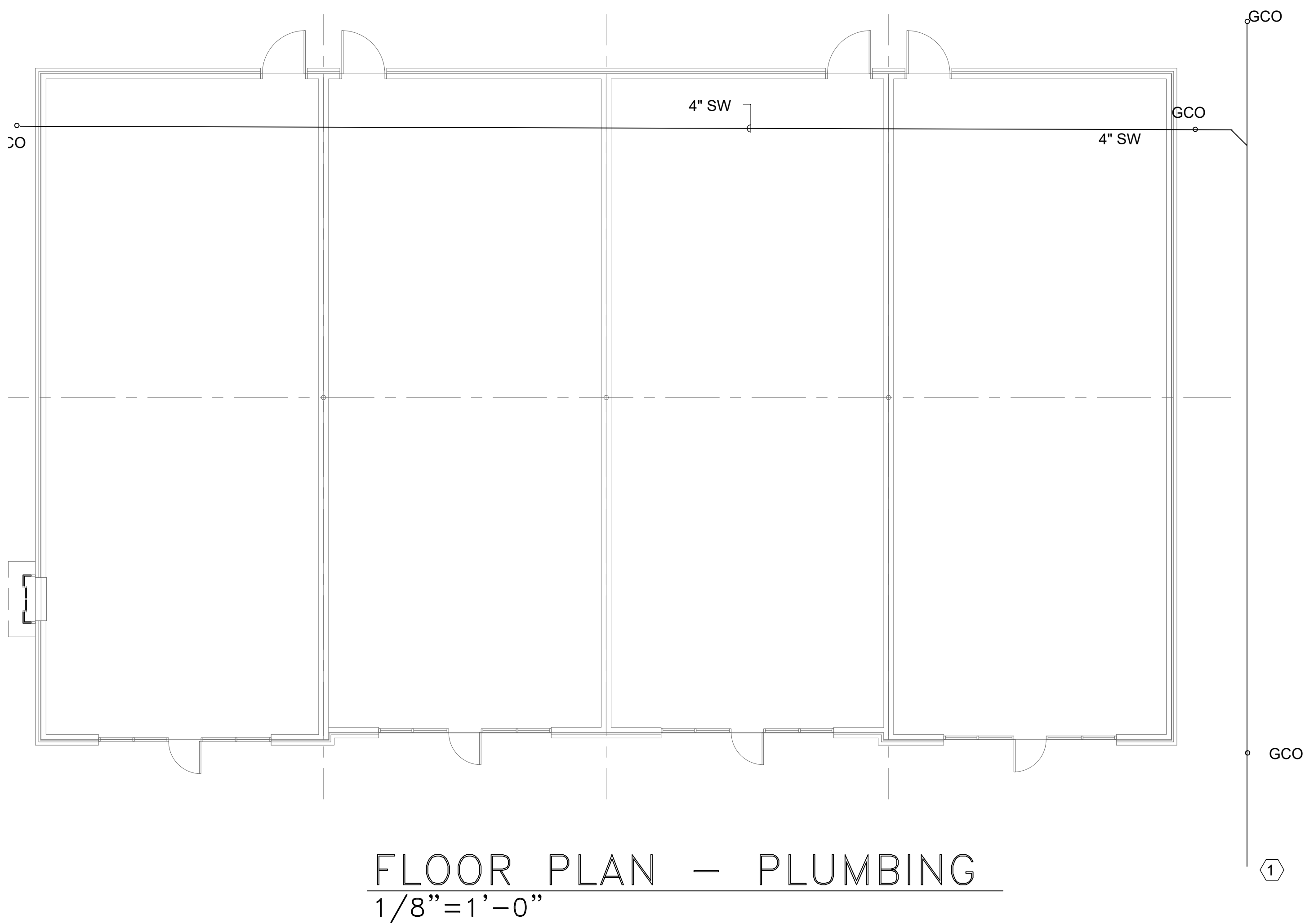
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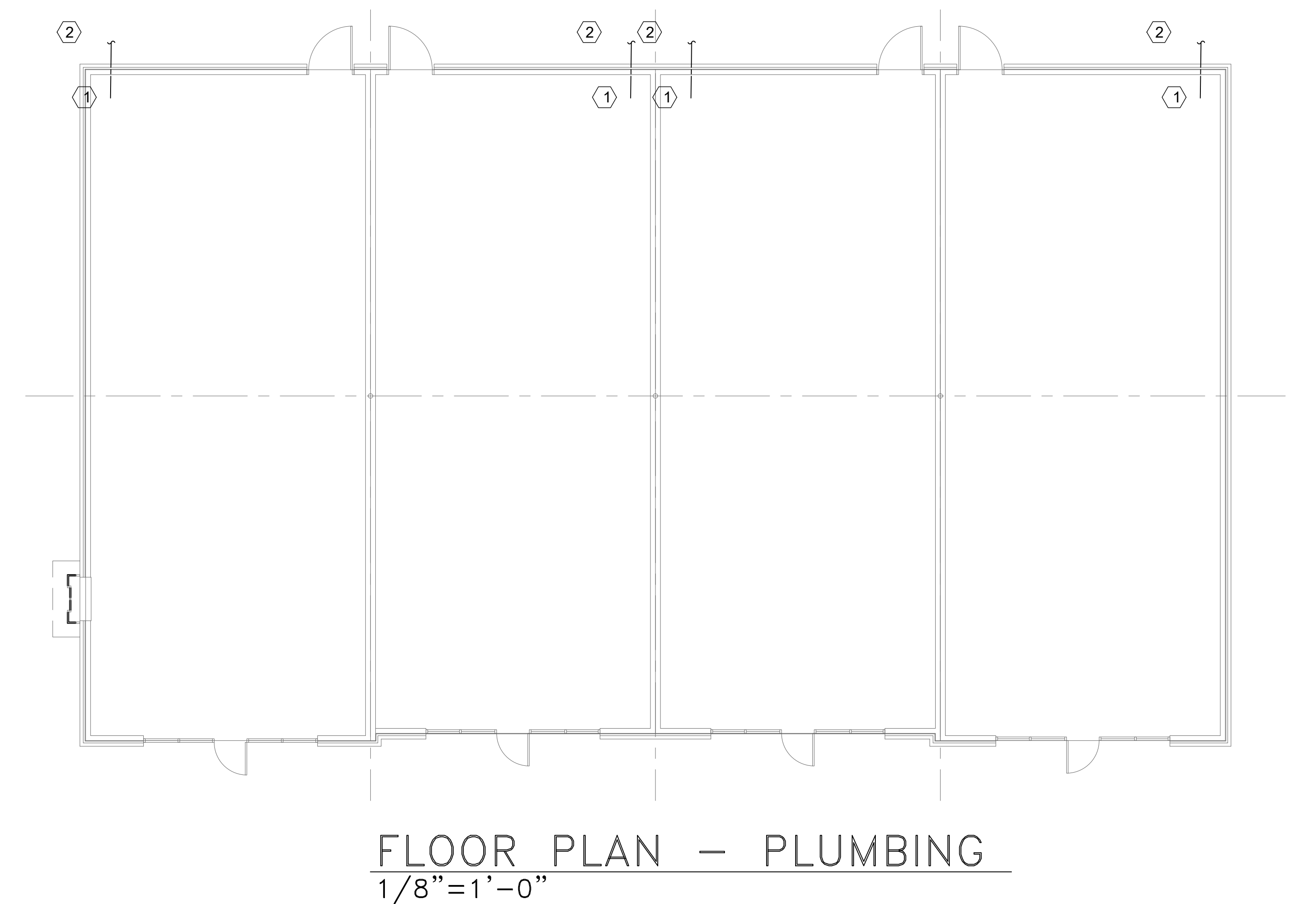
OF

DATE OF ORIGINAL ISSUE

6/9/2024



1 REFER TO CIVIL PLANS FOR
CONTINUATION OF 4" SW MAIN.



- 1 PROVIDE NEW METERED 1 1/2" CW FOR
FUTURE TENANT. EXTEND CW THRU
FLOOR WITH CAP AND BALL VALVE.
EXTEND MAIN TO STREET WITH METER.
SEE CIVIL.
- 2 ROUTE 1 1/2" CW MAIN THRU FLOOR AND BELOW
GRADE. EXTEND MAIN TO EXISTING SITE MAIN AS
REQUIRED. COORDINATE WITH LOCAL UTILITY &
PROVIDE TAP AND METER AS REQUIRED
CONTRACTOR TO PAY FOR ALL INCURRED COST

LUMINAIRE SCHEDULE							
CALLOUT	SYMBOL	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1
B	○	6" LED WET LOCATION DOWNLIGHT	RECESSED	LITHONIA LDN6 15LM 35K L06 WR TRW LSS WD MVOLT	20.5	120V 1P 2W	
BE	●	6" LED WET LOCATION DOWNLIGHT	RECESSED	LITHONIA LDN6 15LM 35K L06 WR TRW LSS WD MVOLT ELR	20.5	120V 1P 2W	BATTERY BACKUP
C		4' LED STRIPLIGHT	CHAIN HUNG	METALUX # SNLED-LD5-54SL-LW-UNV-L840-CD1-U	36	120V 1P 2W	
E		EXIT SIGN COMBO	WALL/CEILING	DUAL LITE #EVC-U-R-W	5	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT
EG	•	OUTDOOR EMERGENCY LIGHT	WALL	DUAL-LITE, PGN Series	17.7	120V 1P 2W	CONNECT UNSWITCHED HOT FROM CIRCUIT DIRECTLY INDOOR FROM FIXTURE. PROVIDE "SWITCHED" HOT FROM PHOTOCELL CIRCUIT AS INDICATED
EL		EMERGENCY EGRESS LIGHTS	WALL	LITHONIA ELM6L	5	120V 1P 2W	PROVIDE FULLY RECESSED KIT ELA FRK
S01		RSX Area Fixture Size 1 P2 Lumen Package 4000K CCT Type R4 Distribution with EGS Shield	POLE	Lithonia Lighting, RSX1 LED P2 40K R4 EGS PROVID 20' SQUARE STEEL POLE,FINISH TO MATCH FIXTURE	72.9467	208V 2P 2W	,PROVIDE 20 FOOT POLE
W1		WPX1 LED wallpack 3000lm 4000K color temperature 120-277 Volts	WALL, MTD PER ARCH	Lithonia Lighting, WPX1 LED P2 40K Mvolt GLASS BLOCK	24.42	120V 1P 2W	COORDINATE HEIGHT WITH ARCHITCET
W3		OUTDOOR LED WALL CYLINDER UP/DOWN LIGHT	WALL, MTD PER ARCH	SELECTED BY OWNER	9.02	120V 1P 2W	DECORATIVE SCONCE OWNER APPROVED

SWITCH SCHEDULE			
CALLOUT	SYMBOL	NOTE 1	NOTE 2
THREEWAY SWITCH	\$ ₃	WALL MOUNTED 3 WAY SWITCH MTD 48" AFF. UOI.	

HP

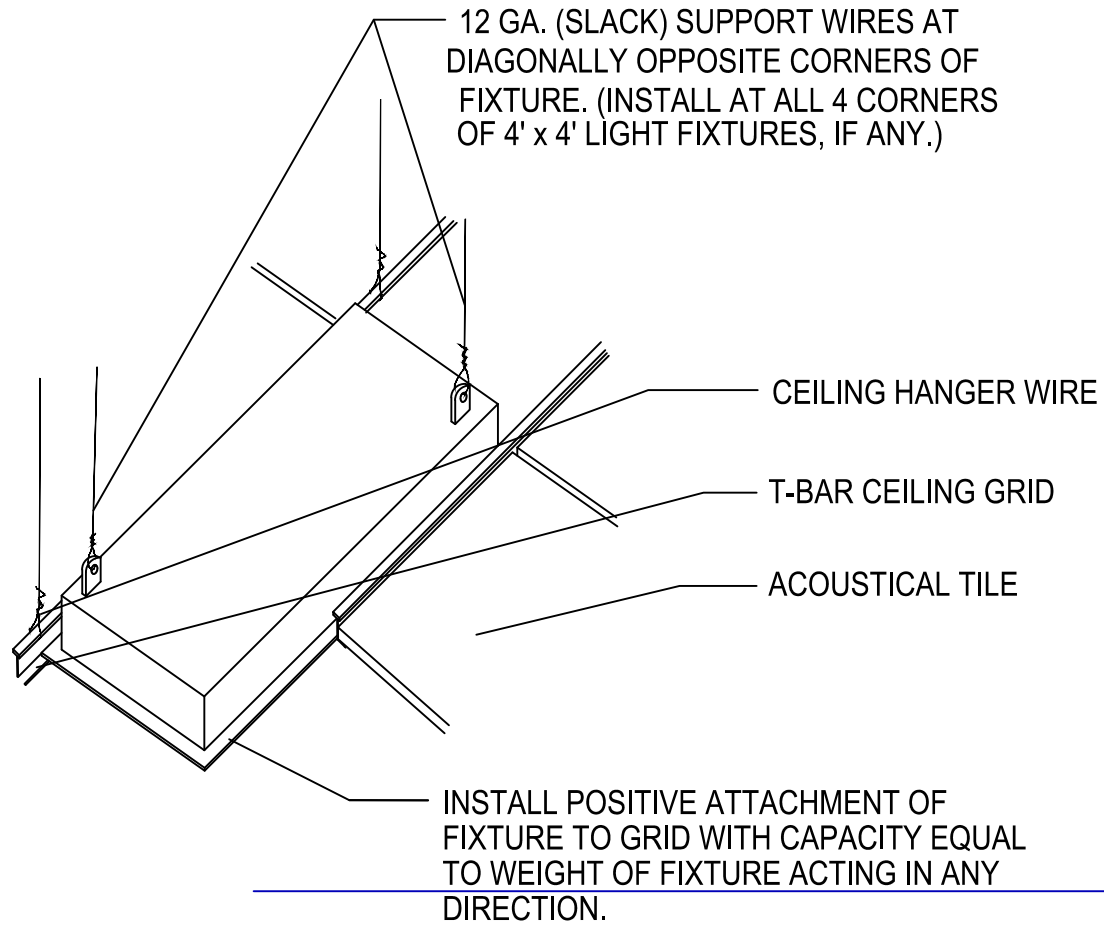
ROOM MOUNTING FLUSH FED FROM UTILITY NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 100 NEUTRAL 100%			AIC 22,000 MAIN BKR 100 LUGS STANDARD					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LIGHTING	0.195			2	20/1	SPACE	0		
3	20/1	LIGHTING		0.072		4	20/1	SPACE		0	
5	20/2	LIGHTING			0.255	6	20/2	SPACE			0
7			0.255			8			0		
9	20/1	LIGHTING		0.246		10	20/1	SPACE		0	
11	20/1	SPACE			0	12	20/1	SPACE			0
13	20/1	SPACE	0			14	20/1	SPACE	0		
15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/2	SPACE			0	18	20/1	SPACE			0
19			0			TOTAL CONNECTED KVA BY PHASE			0.451	0.318	0.255
		CONN KVA	CALC KVA				CALC KVA				
LIGHTING		1.02	1.28		(125%)		TOTAL LOAD		1.28		
							BALANCED 3-PHASE LOAD		3.55 A		

ELECTRICAL SYMBOLS

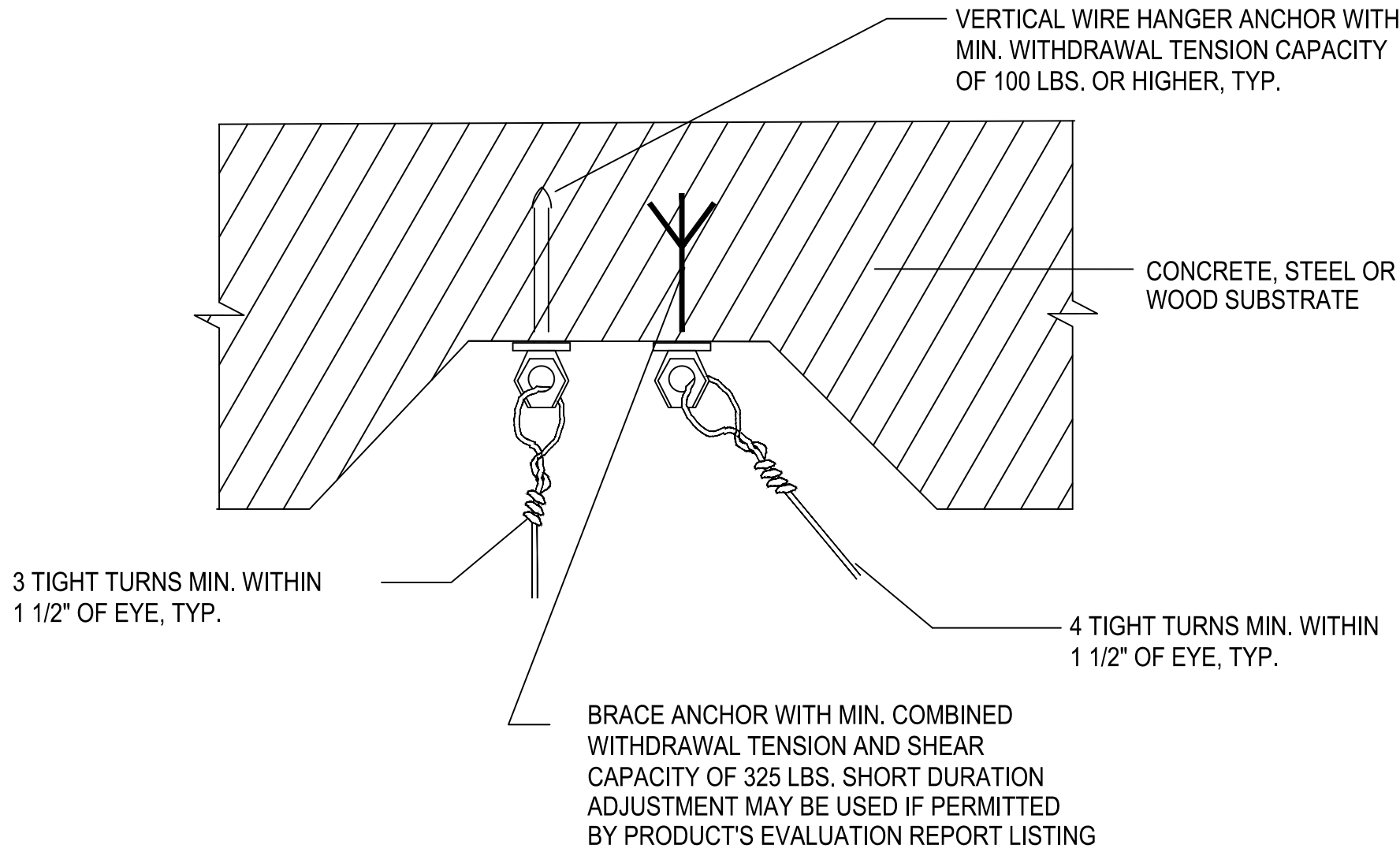
- ☐ NONFUSED DISCONNECT SWITCH - SIZE AS INDICATED
- ☒ FUSED DISCONNECT SWITCH - SIZE AS INDICATED
- ☒ COMBINATION STARTER/DISCONNECT - SIZE AS INDICATED
- \$ TOGGLE SWITCH
- FEEDER/BRANCH RUN OVERHEAD - CONCEALED IN OR ABOVE CEILING, IN WALL, OR EXPOSED ON STRUCTURE
- - - - EMERGENCY, NIGHT LIGHT, OR FEEDER/BRANCH CONCEALED BELOW FLOOR, IN WALL, OR BELOW GRADE
- P-X HOME RUN TO CIRCUIT PANEL, NEUTRAL/HOT/GROUND. #12 COPPER, UOI

ABBREVIATIONS

- | | |
|-------------|----------------------------------|
| a,b,c, etc. | DENOTES SWITCHING SCHEME |
| AC | MOUNT ABOVE COUNTER |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| BFG | BELOW FINISHED GRADE |
| EC | ELECTRICAL CONTRACTOR |
| EP | EXPLOSION PROOF |
| EX | EXISTING |
| FAA | FIRE ALARM ANNUNCIATOR PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| GC | GENERAL CONTRACTOR |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| MC | MECHANICAL CONTRACTOR |
| MTD | MOUNTED |
| OFCI | OWNER FURNISHED, CONTRACTOR |
| INSTALLED | |
| SPD | SURGE PROTECTIVE DEVICE |
| STB | SHUNT TRIP BREAKER |
| UOI | UNLESS OTHERWISE INDICATED |
| WP | WEATHERPROOF |



NOTE
1. FOR WEIGHT LESS THAN 56 LBS. ONLY. CONTACT ARCHITECT IF FIXTURE WEIGHS MORE THAN 56 LBS.



Seismic Mounting Detail

no scale

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: SUMMER SHELL
Project Type: New Construction

Construction Site: BARTLETT, Tennessee
Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A	B	C	D
Area Category	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts
1-Retail	6485	0.84	5447
Total Allowed Watts =			5447

Proposed Interior Lighting Power

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixture	Fixture Watt.	(C X D)
1-Retail				
LED: LED Other Fixture Unit 6.5W:	1	32	38	1216
			Total Proposed Watts =	
			1216	

Interior Lighting PASSES: Design 78% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck's Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Thomas Heedham
Name - Title Signature Date 6/9/24

Project Title: SUMMER SHELL

Report date: 06/10/24

Data filename: Page 3 of 17

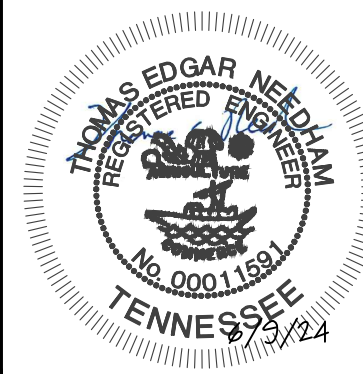
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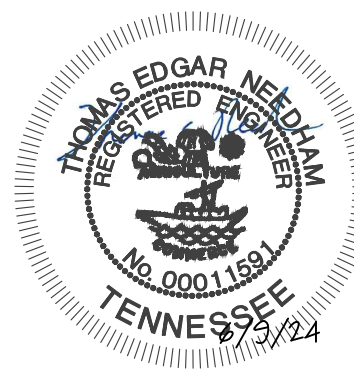
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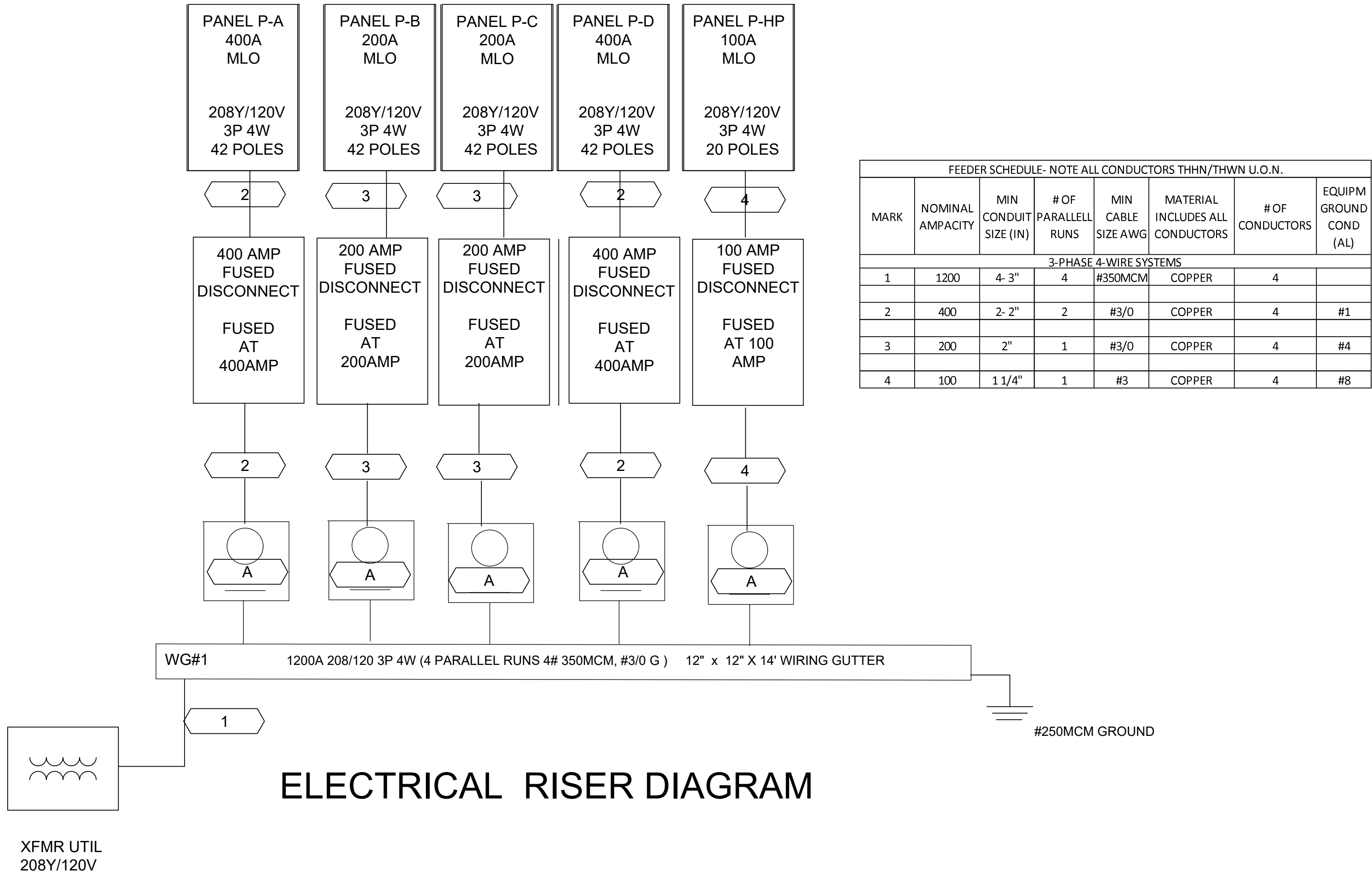
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ONE LINE NOTES

SERVICE ENTRY NOTES:

- UNDERGROUND SERVICE LATERAL CONDUCTORS MUST BE PROTECTED FROM DAMAGE IN ACCORDANCE WITH ARTICLE 300.5. UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18" OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON PLACED 12" ABOVE THE UNDERGROUND INSTALLATION.
- UNLESS LOCAL CODE DICTATES OTHERWISE, PVC SERVICE ENTRANCE LATERAL RACEWAY MUST BE BURIED AT LEAST 18" TO TOP OF THE RACEWAY UNLESS BELOW A COVERING OF AT LEAST 2" OF CONCRETE. RACEWAY COVERED UNDER 2" OF CONCRETE MUST BE BURIED AT LEAST 12" TO TOP OF RACEWAY.
- BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CORROSIVE MATERIAL OR ANYTHING ELSE THAT MAY CAUSE DAMAGE TO RACEWAYS OR CABLES IS NOT PERMITTED.
- CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT ONE OR BOTH ENDS. SPARE OR UNUSED RACEWAYS SHALL ALSO BE SEALED. SEALANTS SHALL BE IDENTIFIED FOR USE WITH THE CABLE, INSULATION, SHIELD OR OTHER COMPONENTS.
- PARALLEL SERVICE CONDUCTORS MUST BE THE SAME LENGTH, HAVE THE SAME CONDUCTOR MATERIAL, BE THE SAME SIZE, HAVE THE SAME INSULATION TYPE, AND BE TERMINATED IN THE SAME MANNER. IN ADDITION THE RACEWAYS OR CABLES MUST HAVE THE SAME PHYSICAL CHARACTERISTICS.

- IN ACCORDANCE WITH NEC ARTICLE 110.16. ELECTRICAL EQUIPMENT LIKELY TO REQUIRE EXAMINATION WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN PERSONNEL OF POTENTIAL ARC FLASH HAZARDS. THIS SHALL BE FURNISHED FROM THE FACTORY.
- IN ACCORDANCE WITH NEC ARTICLE 110.24. THE SERVICE EQUIPMENT SHALL BE FIELD MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT ALONG WITH THE DATE THE CALCULATION WAS PERFORMED.
- ALL WORKING SPACE REQUIREMENTS AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC SHALL BE STRICTLY ADHERED TO BY ALL TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE TO USE THE INFORMATION PROVIDED IN THE SHORT CIRCUIT AND COORDINATION STUDY TO VERIFY THAT SETTINGS ON ADJUSTABLE TRIP OVERCURRENT DEVICES MATCH THE RECOMMENDATIONS OF THE SHORT CIRCUIT AND COORDINATION STUDY.
- IN ACCORDANCE WITH NEC 230.8 RACEWAYS ENTERING A BUILDING FROM AN UNDERGROUND DISTRIBUTION SYSTEM SHALL BE SEALED IN ACCORDANCE WITH 300.5 G.
- ALL PANELS SHALL HAVE COPPER BUSSING.
- ALL PANELBOARDS SHALL BE RATED FOR BASED ON SEISMIC CATEGORY. SEE STRUCTURAL PLANS FOR CATEGORY DETAILS.
- CONTRACTOR SHALL PROVIDE SPARE BREAKERS AS INDICATED ON PANEL SCHEDULES.
- REFER TO MAIN GROUNDING BUS DETAIL FOR MAIN GROUNDING DIAGRAM.
- ALL PANELBOARDS TO BE EASY TRIM TYPE.

ONE LINE SYMBOL LEGEND			
	600A MOLDED CASE CIRCUIT BREAKER. NUMBER INDICATED TRIP RATING		FEEDER CALLOUT, REFER TO FEEDER SCHEDULE
	LIGHTING OR DISTRIBUTION PANELBOARD		AVAILABLE SYMMETRICAL SHORT CIRCUIT CURRENT AT THE EQUIPMENT AS CALCULATED BY THE ENGINEER.
	CURRENT TRANSFORMER		GROUNDING CONNECTION OF SEPARATELY DERIVED SYSTEM
	POTENTIAL TRANSFORMER		DELTA/WYE DRY TYPE TRANSFORMER. TRANSFORMER SHALL BE CONSIDERED A SEPARATELY DERIVED SYSTEM AND SHALL BE GROUNDED PER NEC 250-30.

A											
ROOM MOUNTING FLUSH FED FROM UTILITY NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%				AIC 22,000 MAIN BKR 400 LUGS STANDARD				
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LIGHTING	0.326			2	20/1	SPACE	0		
3	20/1	SPACE		0		4	20/1	SPACE		0	
5	20/1	SPACE			0	6	20/1	SPACE			0
7	20/1	SPACE		0		8	20/1	SPACE	0		
9	20/1	SPACE		0		10	20/1	SPACE		0	
11	20/1	SPACE			0	12	20/1	SPACE			0
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39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
						TOTAL CONNECTED KVA BY PHASE			0.326	0	0
			CONN KVA	CALC KVA					CALC KVA		
LIGHTING			0.326	0.407	(125%)	TOTAL LOAD BALANCED 3-PHASE LOAD			0.407 1.13 A		

B											
ROOM MOUNTING FLUSH FED FROM UTILITY NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC 22,000 MAIN BKR 200 LUGS STANDARD					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LIGHTING	0.326			2	20/1	SPACE	0		
3	20/1	SPACE		0		4	20/1	SPACE		0	
5	20/1	SPACE			0	6	20/1	SPACE			0
7	20/1	SPACE	0			8	20/1	SPACE	0		
9	20/1	SPACE		0		10	20/1	SPACE		0	
11	20/1	SPACE			0	12	20/1	SPACE			0
13	20/1	SPACE	0			14	20/1	SPACE	0		
15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29	20/1	SPACE			0	30	20/1	SPACE			0
31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
						TOTAL CONNECTED KVA BY PHASE			0.326	0	0
			CONN KVA	CALC KVA					CALC KVA		
LIGHTING			0.326	0.407	(125%)	TOTAL LOAD			0.407		
						BALANCED 3-PHASE LOAD			1.13 A		

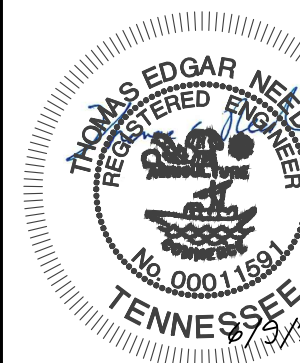
C											
ROOM			VOLTS 208Y/120V 3P 4W				AIC 22,000				
MOUNTING FLUSH			BUS AMPS 200				MAIN BKR 200				
FED FROM UTILITY			NEUTRAL 100%				LUGS STANDARD				
NOTE											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LIGHTING	0.326			2	20/1	SPACE	0		
3	20/1	SPACE		0		4	20/1	SPACE		0	
5	20/1	SPACE			0	6	20/1	SPACE			0
7	20/1	SPACE	0			8	20/1	SPACE	0		
9	20/1	SPACE		0		10	20/1	SPACE		0	
11	20/1	SPACE			0	12	20/1	SPACE			0
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15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
19	20/1	SPACE	0			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
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31	20/1	SPACE	0			32	20/1	SPACE	0		
33	20/1	SPACE		0		34	20/1	SPACE		0	
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39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
						TOTAL CONNECTED KVA BY PHASE			0.326	0	0
			CONN KVA	CALC KVA					CALC KVA		
LIGHTING			0.326	0.407	(125%)	TOTAL LOAD			0.407		
						BALANCED 3-PHASE LOAD			1.13 A		

D											
ROOM			VOLTS 208Y/120V 3P 4W			AIC 22,000					
MOUNTING FLUSH			BUS AMPS 400			MAIN BKR 400					
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD					
NOTE											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	LIGHTING	0.326			2	20/1	SPACE	0		
3	20/1	SPACE		0		4	20/1	SPACE		0	
5	20/1	SPACE			0	6	20/1	SPACE			0
7	20/1	SPACE	0			8	20/1	SPACE	0		
9	20/1	SPACE		0		10	20/1	SPACE		0	
11	20/1	SPACE			0	12	20/1	SPACE			0
13	20/1	SPACE	0			14	20/1	SPACE	0		
15	20/1	SPACE		0		16	20/1	SPACE		0	
17	20/1	SPACE			0	18	20/1	SPACE			0
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25	20/1	SPACE	0			26	20/1	SPACE	0		
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37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1	SPACE			0
						TOTAL CONNECTED KVA BY PHASE			0.326	0	0
			CONN KVA	CALC KVA					CALC KVA		
LIGHTING			0.326	0.407	(125%)	TOTAL LOAD			0.407		
						BALANCED 3-PHASE LOAD			1.13 A		

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7418 Hwy 70
Bartlett, TN



REVISIONS	
NO.	DATE

PANELBOARD

GENERAL NOTES

- ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE NEC (NATIONAL ELECTRICAL CODE) AND THE REQUIREMENTS OF ANY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- SEE PANEL SCHEDULES FOR ADDITIONAL CIRCUIT, CONDUIT AND LOAD INFORMATION.
- WHERE EXPOSED AND SUBJECT TO DAMAGE, CONDUIT SHALL BE GRC UP TO 10' AFF.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" AND MINIMUM WIRING SIZE SHALL BE #12AWG.
- ALL CIRCUIT WIRING SHALL BE THHN TYPE WIRING. CIRCUIT WIRING IN FREEZER/COOLER AREAS SHALL BE XHHW TYPE INSULATION WIRING.
- MULTIPLE CIRCUITS MAY BE COMBINED INTO A SINGLE CONDUIT ONLY BY APPLYING NEC ARTICLE 310.15.B.2. CONDUCTOR SIZES LISTED ON THE PANEL SCHEDULES DO NOT ACCOUNT FOR THE COMBINING OF CIRCUITS.
- LOCATE RECEPTACLES IN THE WEB OF COLUMNS WHERE POSSIBLE OR AS INDICATED ON THE DRAWINGS. COORDINATE WITH OTHER TRADES.
- SLIGHT MODIFICATIONS TO DESIGNED CIRCUITRY ARE PERMITTED PROVIDED CIRCUIT LOADING, DERATING, BALANCE, AND VOLTAGE DROP ARE TAKEN INTO CONSIDERATION. ALL MODIFICATIONS MUST BE DILIGENTLY NOTED ON THE "AS-BUILT" DRAWING SET.
- ALL BRANCH CIRCUIT SHALL BE INSTALLED USING EMT CONDUIT WITH COMPRESSION FITTINGS. IN ENGINEER/ARCHITECT APPROVED AREAS, MC CABLE SHALL BE PERMITTED, UOI.
- MC CABLE SHALL BE SUPPORTED AND SECURED AT INTERVALS NOT EXCEEDING 6' AND WITHIN 12" OF EVERY BOX, CABINET, FITTING OR OTHER CABLE TERMINATION UNLESS OTHERWISE PERMITTED BY NEC. SEE ARTICLE 330 FOR FURTHER INFORMATION.
- EMT SHALL BE SECURELY FASTENED IN PLACE AT LEAST EVERY 10'. IN ADDITION, EACH EMT RUN SHALL BE SECURELY FASTENED WITHIN 3' OF EACH OUTLET BOX, JUNCTION BOX, DEVICE BOX, CABINET, CONDUIT BODY. SEE ARTICLE 358 FOR FURTHER INFORMATION.
- DO NOT SUPPORT RACEWAYS, BOXES, CABINETS, FITTINGS, CABLE ASSEMBLIES OR FIXTURES TO THE CEILING GRID SUPPORT SYSTEM. INDEPENDENT SUPPORT WIRES MAY BE USED AS A SOLE MEANS OF SUPPORT PROVIDED THEY ARE SECURED AT BOTH ENDS AND DISTINGUISHABLE BY COLOR, TAGGING OR OTHER EFFECTIVE MEANS FOR THE CEILING GRID SUPPORT SYSTEM.
- ALL 208/120 VOLT WIRING SHALL ADHERE TO A "BLACK-RED-BLUE" COLOR CODE.
- AT LEAST 6" OF FREE CONDUCTOR, SHALL BE LEFT AT EACH OUTLET, JUNCTION, AND SWITCH POINT FOR SPLICES OR THE CONNECTION OF FIXTURES OR DEVICES WITH THE EXCEPTION OF CONDUCTORS THAT ARE NOT SPLICED OR TERMINATED AT THE OUTLET, JUNCTION, OR SWITCH POINT.
- ALL CIRCUIT DESIGNATIONS SHALL BE MARKED ON JUNCTION BOXES WHERE THEY SPLICE OR PASS THROUGH.
- ALL CEILING MOUNTED 4" SQUARE JUNCTION BOXES SHALL BE 2 1/8" DEEP. DEVICE BOXES (4" SQUARE AND PLASTER RING) MAY BE 1-1/2" DEEP.
- THE NUMBER OF CONDUCTORS IN A JUNCTION BOX SHALL BE SUBJECT TO THE PROVISIONS OF NEC ARTICLE 314.16.
- IN WALLS OR CEILINGS WITH A SURFACE OF CONCRETE, TILE, GYPSUM, PLASTER, OR OTHER NONCOMBUSTIBLE MATERIAL, BOXES SHALL BE INSTALLED SO THAT THE FRONT EDGE OF THE BOX (OR PLASTER RING) WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". (NEC 314.20).
- BOXES SHALL BE INSTALLED SO THE WIRING CONTAINED WITHIN IS ACCESSIBLE.
- METAL BOXES SHALL BE GROUNDED BY AN APPROVED MEANS.
- WHERE NAILS OR SCREWS ARE LIKELY TO PENETRATE EMT OR MC CABLE, A STEEL SLEEVE, STEEL PLATE, OR STEEL CLIP NOT LESS THAN 1/16" THICKNESS SHALL BE USED TO PROTECT THE CABLE OR TUBING.
- MOUNTING HEIGHTS OF WALL OUTLETS AFF TO BOTTOM SHALL BE AS FOLLOWS, UOI ON PLANS: SWITCHES-48", RECEPTACLES & PHONE/DATA OUTLETS IN OFFICE AREAS-18".
- WHERE DEVICES ARE SHOWN TO BE INSTALLED ABOVE CASEWORK OR COUNTERS, EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE CASEWORK CONTRACTOR BEFORE ROUGH-IN WORK IS COMPLETED.
- WHERE A GFCI RECEPTACLE IS USED, THE RECEPTACLE SHALL NOT BE LOCATED TO CONCEAL THE RECEPTACLE. IT MUST BE READILY ACCESSIBLE. PROVIDE GFCI BREAKER IF RECEPTACLE AS ALTERNATIVE PROTECTION.

GENERAL EQUIPMENT NOTES

- CONTRACTOR SHALL PROVIDE ALL POWER CONNECTIONS AS REQUIRED FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL PROVIDE 120V CIRCUITS FOR ALL MECHANICAL CONTROL PANELS AS REQUIRED. COORDINATE WITH MC.
- PROPER CLEARANCE MUST BE MAINTAINED AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.26.
- PANELBOARDS, STARTERS, DISCONNECT SWITCHES, ETC. SHALL BE INSTALLED SUCH THAT THE TOP OF THE EQUIPMENT IS 72" AFF. UOI.
- REFER TO THE MECHANICAL/PLUMBING DRAWINGS TO VERIFY EQUIPMENT LOCATIONS AND COORDINATION OF STARTERS, DISCONNECT SWITCHES, THERMOSTATS, CONTROL WIRING, DUCT DETECTORS, ETC.

GENERAL NOTES (CONT)

- ALL FIRE BARRIER PENETRATIONS SHALL BE MADE WITH U.L. LISTED ASSEMBLIES.
- ALL MAJOR FEEDERS SHALL BE INSTALLED UNDER SLAB/UNDERGROUND USING SCHEDULE 40 PVC WHERE ACCEPTABLE.
- ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE AND GASES.
- PROVIDE PROPER CONDUIT SEAL OFF AND INSULATION AT WALL PENETRATIONS BETWEEN AREAS OF DIFFERENT TEMPERATURES.
- THE METHOD OF INSTALLING CONDUIT THROUGH INSULATED WALL SHALL BE AS FOLLOWS
 - HOLE SHALL BE CUT NEAT AT 1/4" LARGER THAN CONDUIT.
 - CONDUIT SHALL BE OF A PVC TYPE WHICH WILL EXTEND BEYOND WALL FOR 1" ON EACH FACE.
 - AFTER WIRE HAS BEEN INSTALLED, CONDUIT SHALL BE FILLED SOLID WITH DUCT SEAL PLASTIC FILLER.
 - AFTER ALL WIRING IS COMPLETED, INSULATION CONTRACTOR SHALL SEAL CONDUIT WITH URETHANE FOAM AND VAPOR SEAL AROUND OUTSIDE OF CONDUIT.
- ALL EMERGENCY CIRCUIT BOXES AND ENCLOSURES (INCLUDING TRANSFER SWITCHES, GENERATORS, AND POWER PANELS) FOR EMERGENCY CIRCUITS SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM.
- EMERGENCY CIRCUIT WIRING CONSISTING OF TWO OR MORE EMERGENCY CIRCUITS SUPPLIED FROM THE SAME SOURCE SHALL BE PERMITTED IN THE SAME RACEWAY, CABLE, BOX, OR CABINET. EMERGENCY CIRCUIT WIRING SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT OTHER THAN IN TRANSFER EQUIPMENT ENCLOSURES, EXIT OR EMERGENCY FIXTURES, COMMON JUNCTION BOX, ATTACHED TO EXIT OR EMERGENCY FIXTURES OR A COMMON JUNCTION BOX ATTACHED TO UNIT EQUIPMENT, CONTAINING ONLY THE BRANCH CIRCUIT SUPPLYING THE UNIT EQUIPMENT AND THE EMERGENCY CIRCUIT SUPPLIED BY THE UNIT EQUIPMENT.
- REFER TO ARTICLE 300.22 FOR WIRING IN AIR HANDLING (PLENUM) SPACES.
- ALL SPLICES SHALL BE MADE UP TIGHT USING APPROVED MATERIALS AND "PULL TESTED" FOR INTEGRITY.
- FLEXIBLE CORDS/CABLES SHALL BE CONNECTED TO DEVICES AND/OR FITTINGS SO THAT TENSION IS NOT TRANSMITTED TO JOINTS OR TERMINALS.
- AN ENCLOSURE MOUNTED TO STRUCTURAL OR SUPPORTING ELEMENTS OF A SUSPENDED CEILING SHALL BE NOT MORE THAN 100 CUBIC INCHES IN SIZE AND SHALL BE SECURELY FASTENED TO THE CEILING GRID BY AN APPROVED MEANS.
- RACEWAY CONNECTIONS TO TRANSFORMERS OR OTHER VIBRATING EQUIPMENT SHALL BE MADE USING AN APPROVED FLEXIBLE CONNECTION.
- CONTRACTOR SHALL PROVIDE PUSHBUTTON FOR LOWERING CONTROL OF PROJECTOR LIFT AND MOTORIZED SCREEN. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AS REQUIRED FOR THIS OPERATION, COORDINATE WITH A/V VENDORS.
- CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AS REQUIRED FOR ALL KITCHEN EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN. REFER TO KITCHEN PLANS.
- ALL RECEPTACLES IN KITCHEN/RESTROOM AREAS SHALL HAVE GFCI PROTECTION (GFCI BREAKER OR GFCI RECEPTACLE).
- WHEREVER MODULAR FURNITURE MAY BE USED, COORDINATE THE LOCATION OF RECEPTACLES WITH OPENINGS IN THE FURNITURE. THIS IS CRITICAL TO PREVENT REWORK.
- PLAN LAYOUT SHOWN IN THESE DOCUMENTS ARE SCHEMATIC AND ARE INTENDED TO ILLUSTRATE DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN INCLUDING BUT NOT LIMITED TO SERVICE ENTRY, PANEL SIZE, AND CIRCUITRY.
- THE SCOPE OF WORK INDICATED SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO, THE STANDARD ELECTRIC CODE AND THE NEC (LATEST APPLICABLE EDITION).
- THE ELECTRICAL WORK SHOWN ON THE SUBMITTED PLANS SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL SECURE AN ELECTRICAL PERMIT FOR THEIR PORTION OF THE WORK PRIOR TO INSTALLATION.
- COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.
- CONFIRM ELECTRICAL REQUIREMENTS FOR ANY OWNER SUPPLIED ITEMS PRIOR TO WIRING OR FINAL CIRCUITING.
- SUBMIT CUT SHEETS FOR ELECTRICAL FIXTURES TO OWNER/ARCHITECT.
- OUTLETS OF ANY TYPE SHALL NEVER BE INSTALLED BACK TO BACK. OUTLETS IN RATED WALL MUST BE INSTALLED 24" APART.
- ALL LOW VOLTAGE WIRING, WITH EXCEPTION OF THE FIRE ALARM SYSTEM, IS THE OWNER'S RESPONSIBILITY.
- CONTRACTOR SHALL PROVIDE J-HOOKS ON 24" SPACING ABOVE CEILING AS REQUIRED FOR NEW DATA CABLING. COORDINATE WITH OWNER.
- IF REQUIRED, CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR PROPER OPERATION OF ELECTRONIC LOCKING DOORS. DOOR LOCKS SHALL RELEASE UPON FIRE ALARM ACTIVATION. PROVIDE RELAYS FROM DOOR CONTROLLER TO FIRE ALARM CONTROL PANEL AS REQUIRED. COORDINATE ALL WORK WITH VENDOR.

GENERAL LIGHTING NOTES

- SEE NEC ARTICLE 410 FOR MORE INFORMATION REGARDING LIGHTING FIXTURES.
- LIGHTING CIRCUITS ABOVE THE BAR JOIST OR IN CONCEALED AREAS MAY BE FLEXIBLE WIRING UOI.
- LIGHT SWITCHES SHALL BE MOUNTED AT 48" TO THE BOTTOM OF THE BOX, UOI.
- LAY IN TYPE LIGHTING FIXTURES SHALL BE SUPPORTED BY EITHER OF TWO METHODS:
 - THEY SHALL BE SECURELY ATTACHED TO THE CEILING GRID BOLTS, SCREWS, RIVETS, OR LISTED CLIPS IDENTIFIED FOR USE WITH THE CEILING MANUFACTURER
 - THEY SHALL BE ATTACHED TO THE BUILDING STRUCTURE BY AN INDEPENDENT MEANS (CEILING WIRE) AND COLOR CODED TO DISTINGUISH THIS SUPPORT FROM THE CEILING GRID SUPPORT SYSTEM.
- A RECESSED LIGHTING FIXTURE THAT IS NON-TYPE IC SHALL HAVE ALL RECESSED PARTS SPACED NOT LESS THAN 1/2" FROM COMBUSTIBLE MATERIALS.
- ALL 2' X 2' LIGHT FIXTURES SHALL BE ORIENTED SUCH THAT LONG EDGE OF LAMPS RUN THE SAME DIRECTION THROUGHOUT THE FACILITY.
- ALL EMERGENCY/EGRESS FIXTURES AND SIGNS MOUNTED ABOVE DOORWAYS SHALL SHALL CENTER MTD ON WALL ABOVE DOOR HEADER, UOI.
- OUTLET BOXES OR FITTINGS INSTALLED AS REQUIRED BY ARTICLE 314.23 SHALL BE PERMITTED TO SUPPORT LIGHTING FIXTURES.
- DURING INSTALLATION, IF AN OBVIOUS CONFLICT IS DISCOVERED BETWEEN LIGHTING FIXTURES AND OTHER BUILDING ELEMENTS (STRUCTURE, HVAC, PLUMBING, SPRINKLER, ETC.) THE CONTRACTOR HAS THE AUTHORITY TO MAKE MINOR ADJUSTMENTS TO THE FIXTURE LAYOUT. OTHER ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER OF RECORD.
- LIGHT FIXTURES HAVE BEEN SELECTED TO BE OF PROPER CONSTRUCTION AND LISTED FOR THE ENVIRONMENT. ANY DEVIATION IN THE TYPE OR LOCATION SHALL BE APPROVED BY THE ENGINEER OF RECORD.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS (WHERE AVAILABLE) FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.
- LIGHT FIXTURES SHALL NOT BE USED AS A RACEWAY, UNLESS LISTED AND MARKED FOR THAT PURPOSE.
- THESE DRAWINGS SHOW THE INTENT OF THE DESIGNER. EVERY WIRE IS NOT ILLUSTRATED (EXAMPLES: WIRING BETWEEN 3-WAY SWITCHES, WIRING FOR AN EMERGENCY BALLAST, ETC.) ON THESE DRAWINGS.
- THE INSTALLER SHOULD REFER TO THE DETAILS FOR THE PROPER WIRING OF OCCUPANCY SENSORS. COORDINATE WITH VENDOR.
- CONDUITS, LIGHTING FIXTURES, ETC SHALL NOT BE MOUNTED DIRECTLY BELOW SMOKE/HEAT VENTS, SPRINKLER HEADS, EVAPORATOR VENTS OR SKY LIGHTS.
- THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY AND ALL FIXTURES NOT PRE-APPROVED BY ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID.
- ALL OCCUPANCY SENSORS SHALL BE SET WITH A 10 MINUTE TIME OUT. WITH THE EXCEPTION OF RESTROOM SENSORS. ALL RESTROOM SENSORS SHALL BE SET WITH A 20 MINUTE TIME OUT.
- CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR PROPER OPERATION OF FIXTURES.
- CONTRACTOR SHALL REFER TO LATEST ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
- SHORT DASHED CIRCUITS REPRESENT CIRCUITS WHICH ARE EMERGENCY OR UN-SWITCHED NIGHT LIGHT CIRCUITS. EACH FIXTURE WITH AN EMERGENCY BALLAST REQUIRES A WIRE WHICH IS CONSTANTLY HOT (NOT SWITCHED) FOR PROPER OPERATION. IF NIGHT LIGHT CIRCUIT, CIRCUIT FIXTURES AHEAD OF ANY SWITCHES OR SENSORS.
- ALL LIGHTING LAYOUTS ARE BASED ON REFLECTED CEILING PLANS. DO NOT ALTER THE NUMBER OF FIXTURES INDICATED ON DRAWINGS. SEE FIXTURE SCHEDULE FOR APPLICABLE NOTES.
- CONTRACTOR SHALL PROVIDE POWER PACKS FOR OCCUPANCY SENSORS AS REQUIRED BY MANUFACTURER. PROVIDE 120V CIRCUITS FROM NEAREST 120V PANEL AS REQUIRED.
- CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR OPERATION OF OCCUPANCY SENSORS, INCLUDING FOR USE WITH MECHANICAL LOADS - EXHAUST FANS.
- CONTRACTOR SHALL CONCEAL ALL WIRES AND DEVICES WHERE POSSIBLE. IN AREAS WHERE CONCEALMENT IS NOT PRACTICAL, PROVIDE WIREMOLD PAINTED TO MATCH FINISHES. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.

GENERAL GROUNDING NOTES

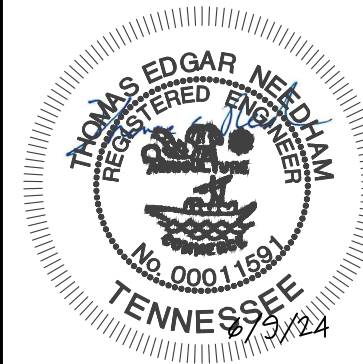
- ALL GROUND RODS SHALL BE 3/4" X 10' COPPER-CLAD STEEL UOI. EVERY EFFORT SHOULD BE MADE TO INSTALL THE GROUND RODS IN A VERTICAL POSITION. IF THIS IS NOT POSSIBLE, IN SOME CASES, THE ENGINEER MAY REQUIRE THE INSTALLATION OF A PLATE ELECTRODE OR HE MAY APPROVE AN ANGLED OR HORIZONTAL INSTALLATION OF A GROUND ROD.
- GROUND RODS AND THE GROUND RING CONDUCTORS SHALL BE LOCATED 24" MINIMUM FROM THE STRUCTURAL FOUNDATION AND SHALL BE BURIED 30" MINIMUM BELOW FINISHED GRADE (REFERENCE NEC 250.52.F).
- IN GENERAL, THE GROUND LOOP SHALL CONSIST OF 4/0 STRANDED BARE COPPER UOI. WHEREVER BARE GROUNDING SYSTEM CONDUCTORS PASS THROUGH OR TERMINATE IN CONCRETE, THE EXPOSED COPPER CONDUCTOR MUST BE PAINTED WITH A PVC TYPE PAINT TO HELP PROTECT AGAINST CORROSION.
- THE GROUNDING SYSTEM SHALL BE TESTED USING THE FALL OF POTENTIAL METHOD TO ENSURE COMPLIANCE WITH THE SPECIFICATIONS AND THE NEC MINIMUM REQUIREMENTS.
- ALL CONNECTIONS OF WIRE-TO-WIRE, WIRE-TO-ROD, AND WIRE-TO-STEEL SHALL BE MADE EXOTHERMICALLY USING APPROPRIATE MOLDS OR APPROVED CLAMPS.
- IF NECESSARY, THE AUTHORITY HAVING JURISDICTION SHALL BE CALLED IN TO INSPECT THE INSTALLATION OF THE GROUNDING SYSTEM BEFORE IT IS BURIED OR COVERED.
- THE GROUNDING SHOWN ON THESE DRAWINGS INCLUDE THE MINIMUM REQUIREMENTS. ALL THE REQUIREMENTS OF THE NEC ARTICLE 250 MUST BE MET.
- METAL RACEWAYS FOR SERVICE CONDUCTORS AND EQUIPMENT SHALL BE GROUNDED. A METAL ELBOW THAT IS INSTALLED IN AN UNDERGROUND INSTALLATION OF RIGID NON-METALLIC CONDUIT AND IS ISOLATED FROM POSSIBLE CONTACT BY A MINIMUM COVER OF 18" TO ANY PART OF THE ELBOW SHALL NOT BE REQUIRED TO BE GROUNDED.
- NON-CURRENT-CARRYING CONDUCTIVE MATERIALS, SUCH AS METAL CONDUIT, JUNCTION BOXES, ETC., ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE GROUNDED.
- THE NON-CURRENT-CARRYING METAL PARTS OF SERVICE EQUIPMENT (RACEWAYS AND ENCLOSURES CONTAINING SERVICE CONDUCTORS, INCLUDING METER FITTINGS, BOXES, OR THE LIKE, INTERPOSED IN THE SERVICE RACEWAY OR ARMOR SHALL BE BONDED TOGETHER. BONDING SHALL APPLY AT EACH END AND TO ALL INTERVENING RACEWAYS, BOXES, AND ENCLOSURES BETWEEN THE SERVICE EQUIPMENT AND THE GROUNDING ELECTRODE. METHODS OF BONDING SHALL INCLUDE EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS, CONNECTIONS UTILIZING THREADED COUPLINGS OR THREADED BOSSES ON ENCLOSURES WHERE MADE UP WRENCH-TIGHT, OTHER APPROVED DEVICES, SUCH AS BONDING-TYPE LOCKNUTS AND BUSHINGS
- NONCONDUCTIVE COATINGS (SUCH AS PAINT, LACQUER, AND ENAMEL) ON EQUIPMENT TO BE GROUNDED SHALL BE REMOVED FROM THREADS AND OTHER CONTACT SURFACES TO ENSURE GOOD ELECTRICAL CONTINUITY OR BE CONNECTED BY MEANS OF FITTINGS DESIGNED SO AS TO MAKE SUCH REMOVAL UNNECESSARY.
- WHERE THE TRANSFORMER SUPPLYING THE SERVICE IS LOCATED OUTSIDE THE BUILDING, AT LEAST ONE ADDITIONAL GROUNDING CONNECTION SHALL BE MADE FROM THE GROUNDED SERVICE CONDUCTOR TO A GROUNDING ELECTRODE, EITHER AT THE TRANSFORMER OR ELSEWHERE OUTSIDE THE BUILDING.
- FOR A GROUNDED SYSTEM, AN UN-SPLICED MAIN BONDING JUMPER SHALL BE USED TO CONNECT THE EQUIPMENT GROUNDING CONDUCTOR(S) AND THE SERVICE-DISCONNECT ENCLOSURE TO THE GROUNDED CONDUCTOR OF THE SYSTEM MAIN BONDING JUMPERS SHALL BE OF COPPER OR OTHER CORROSION-RESISTANT MATERIAL. A MAIN BONDING JUMPER SHALL BE A WIRE, BUS, SCREW, OR SIMILAR SUITABLE CONDUCTOR. THE MAIN BONDING JUMPER SHALL NOT BE SMALLER THAN THE SIZES SHOWN IN TABLE 250.66 OF THE NEC FOR GROUNDING ELECTRODE CONDUCTORS.
- METAL RACEWAYS, CABLE TRAYS, ENCLOSURES, FRAMES, FITTINGS, AND OTHER METAL NON-CURRENT-CARRYING PARTS THAT ARE TO SERVE AS GROUNDING CONDUCTORS, WITH OR WITHOUT THE USE OF SUPPLEMENTARY EQUIPMENT GROUNDING CONDUCTORS, SHALL BE EFFECTIVELY BONDED WHERE NECESSARY TO ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY FAULT CURRENT LIKELY TO BE IMPOSED ON THEM.
- EXPOSED NON-CURRENT-CARRYING METAL PARTS OF FIXED EQUIPMENT LIKELY TO BECOME ENERGIZED SHALL BE GROUNDED UNDER ANY OF THE FOLLOWING CONDITIONS:
 - WHERE WITHIN 8' VERTICALLY OR 5' HORIZONTALLY OF GROUND OR GROUNDED METAL OBJECTS AND SUBJECT TO CONTACT BY PERSONS
 - WHERE LOCATED IN A WET OR DAMP LOCATION AND NOT ISOLATED
 - WHERE IN ELECTRICAL CONTACT WITH METAL
 - WHERE SUPPLIED BY A METAL-CLAD, METAL-SHEATHED, METAL-RACEWAY, OR OTHER WIRING METHOD THAT PROVIDES AN EQUIPMENT GROUND
 - WHERE EQUIPMENT OPERATES WITH ANY TERMINAL AT OVER 150 VOLTS TO GROUND
- ALL GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE ROUTED TO ENSURE SHORTEST POSSIBLE CONDUCTOR LENGTH.
- BONDING JUMPERS MEETING THE OTHER REQUIREMENTS OF THIS ARTICLE SHALL BE USED AROUND CONCENTRIC OR ECCENTRIC KNOCKOUTS THAT ARE PUNCHED OR OTHERWISE FORMED SO AS TO IMPAIR THE ELECTRICAL CONNECTION TO GROUND. STANDARD LOCKNUTS OR BUSHINGS SHALL NOT BE THE SOLE MEANS FOR THE BONDING REQUIRED BY THIS SECTION.

Notes
No Scale

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Bartlett, TN



REVISIONS	
NO.	DATE

NOTES -
ELECTRICAL

PROJECT NUMBER 4702
SCALE AS SHOWN
SHEET NUMBER E004
OF DATE OF ORIGINAL ISSUE 6/9/2024



FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for applications requiring low profile, attractive emergency lighting with optional normally on or normally on with photo cell control. Provides a minimum of 90 minutes of illumination with lithium and sodium options if AC power. **Certain where constraints can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic Polycarbonate Compatibility Table for available uses.**

CONSTRUCTION — Compact, low profile, architectural design with die-cast aluminum housing. Features an integrated powder coat paint for dark bronze, white, black and non-toxic paint for natural aluminum. Test switch indicator light and remote control are located on the bottom of the housing and are easily accessible and visible from the front.

OPTICS — LEDs with 170° x 55° beam, delivers 53 lumens in Normal On and Emergency operation. Optional field configurable for wide and forward throw distribution (P.S. Patent No. 4,552,947 and 7/2/02). Outdoor wide throw distribution: 70° x 70° (both of eyes) at a 7.5 mounting height with 1 FC Average, 4,000 candela color temperature (CCT).

ELECTRICAL — 120V/277 60 Hz, 50/60 Hz, Current limiting charger maximizes battery life and minimizes energy consumption to provide low operating costs. Small battery charger Certified in the CA Title 20 Appliance Efficiency Database.

Short circuit protection — Current limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.

Prevents overcharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.

Photo cell option (PCL) for normally on product in order to discontinue illumination during periods when ambient light is present. Photo cell option (PCL) for normally on products allows the user to have lamp illumination by use of central (external) switch. When power is not connected to the switch, illumination will respond to internal daylight sensor. For switched line applications, no other types of products shall be connected on the switched line.

Remote units (RLU) are normally off. Emergency only functionality with DC power from an external battery.

BATTERY Sealed, maintenance-free Lithium Iron Phosphate battery.

SELF-DIAGNOSTIC AND REMOTE TEST (OPTION) Automatic, 24-hour recharge after a 90-minute discharge. Advanced electrical design provides constant light output throughout the entire discharge period for use in 24-hour facilities. For cold weather and cold temperature applications, the light may dim slightly through the discharge cycle. Remote test switch is internally located with the emergency mode where supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other operational emergency AC, DC or cut-off battery systems to be used for power applied and prevents battery damage from deep discharge.

Self-Diagnostics Continuously monitors AC functionality. Standard development monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-colored LED indicator to display two state charging, test activation and three state self-diagnostics.

Self-diagnostic testing five minutes every 30 days and 10 minutes annually. Diagnostic evaluation of lamp, AC, DC, battery, battery charging and condition of temperature. Automatic test is ready response for right hours by activating manual test switch or use of remote tester (RMT accessory). Manual testing Test switch and remote tester (RMT accessory) provides manual activation and second diagnostic testing for on-demand visual inspection. Remote manual testing can be enabled by depressing the test switch again while in test mode.

INSTALLATION — Wall mount: typically meets 7.5' to 14' mounting height from ground or floor. Power supplied by other mounting directly to a 4" square or 4" octagon (box wall mount) and accepts rigid or flexible conduit.

LISTINGS — UL wet location listed standard at 32-122°F to 50°C. Unit with CN battery (not weather) listed at 32-122°F to 50°C. Remote tested for 40°F to 122°F to 40°C (104°F). Meets or exceeds all applicable requirements for UL 924, NFPA 701 (current UL safety code, NFPA 701 (ULC), NFPA (International), California Energy Commission Title 20 section 1602.1 (WPL), FCC Title 47 Part 15, Subpart B and FCC Part 15 and labeled to comply with Canadian Standards C22. No. 141-10, Meets City of Chicago Code.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy American Act government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.buyusa.gov for additional information.

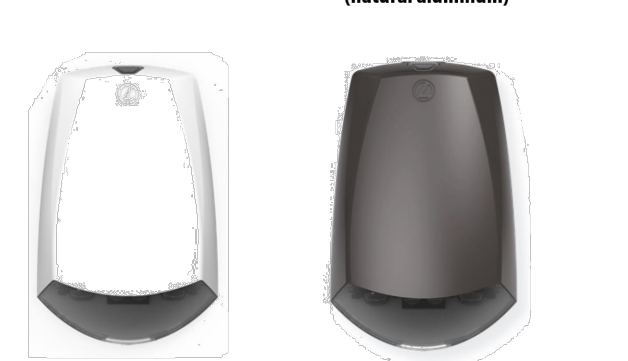
WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.lithonia.com/support/customer-support

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

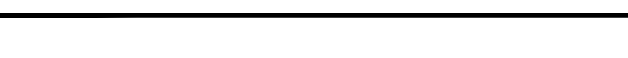
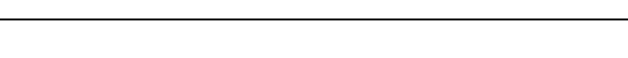
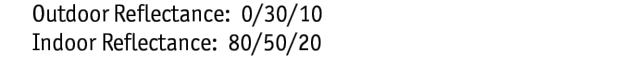
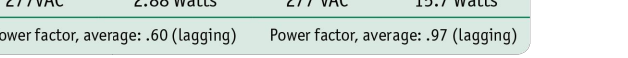
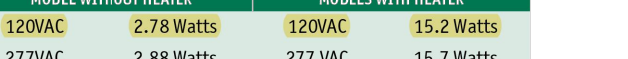
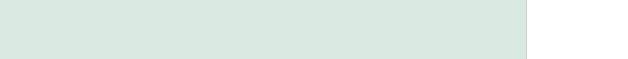
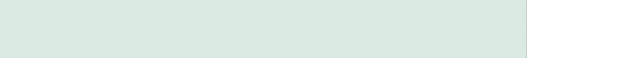
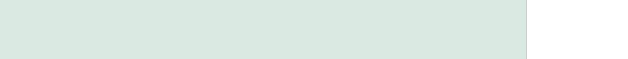
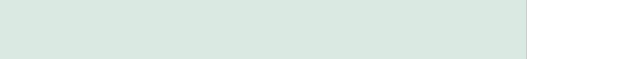
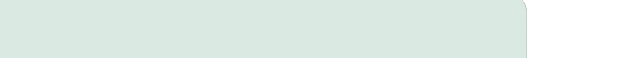
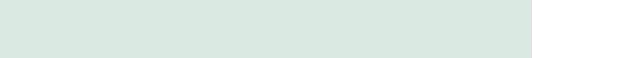
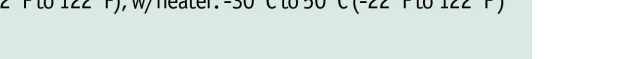
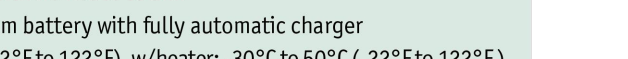
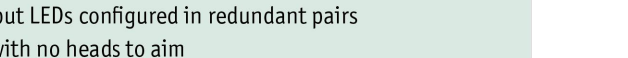
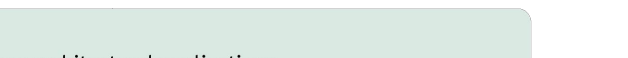
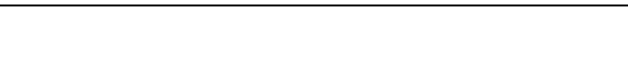
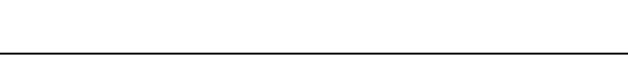
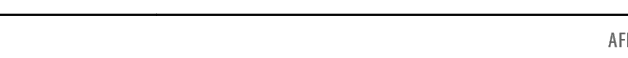
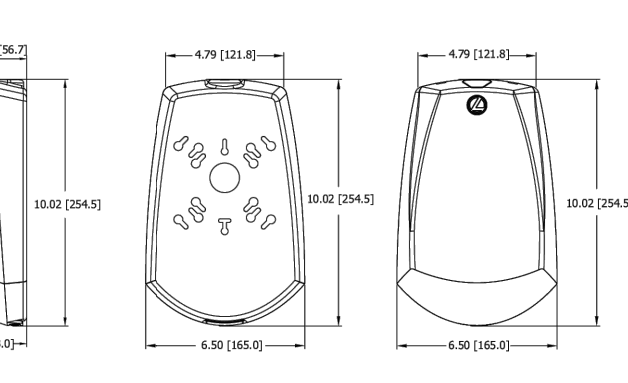
Catalog Number	
Item	
Type	

AFFINITY® Premium Die-Cast Architectural Emergency Light

TYPE EG



MOUNTING
All dimensions are inches (centimeters).
Shipping weight: 3.5 lbs (1.59 kg)



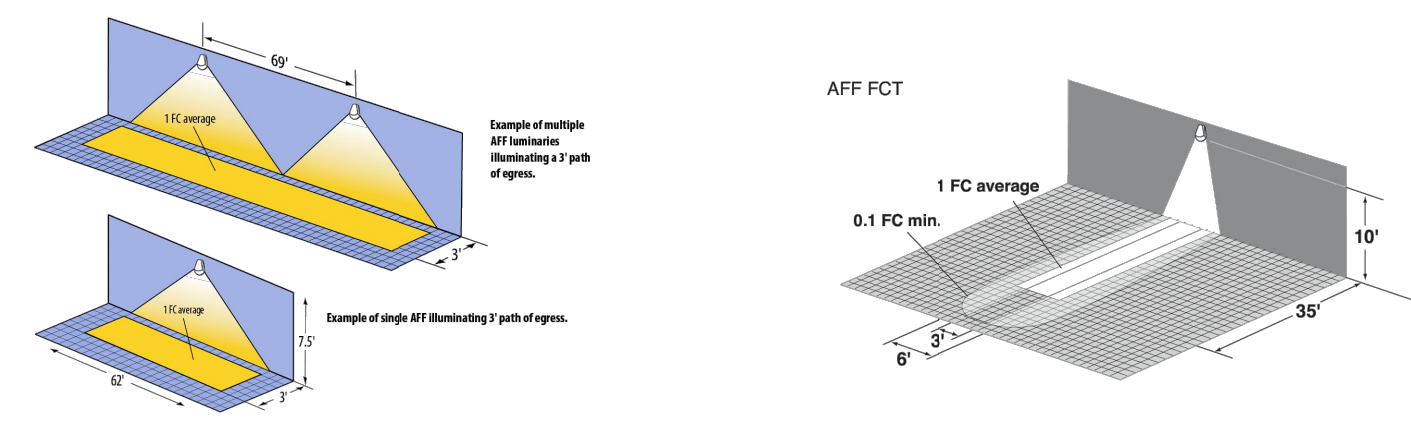
AFF Affinity® Premium Die-Cast Architectural Emergency Light

SELF-POWERED MODELS									
ORDERING INFORMATION					Example: AFF PEL DWHGKD DVOLET LDR SORT WT				
Series	Unit Type ¹	Housing Color	Voltage	Battery Type	Automatic Testing	Optics	Options		
AFF	AFFINITY Premium	PEL PhotoCell Normally On with internal battery	DWHGKD White textured DBDAD Black textured DBDAD Natural aluminum	DVOLET 120-277VAC 50/60Hz	LDR Lithium Ion Phosphate	SORT Self-diagnostics remote test	WT Wide Throw FCT Fixed configurable throw	CW Cold Weather (-30 to -50)	BA Buy American(1) Act Compliant

REMOTE MODELS listed for -40°F to 122°F (-40° to 50°C)									
ORDERING INFORMATION									
Series	Unit Type	Housing Color	Voltage	Optics	Options				
AFF	AFFINITY Premium	DLR Remote Tester, Normally Off (requires external battery power)	DWHGKD White textured DBDAD Black textured DBDAD Natural aluminum DBDAD Dark bronze textured	(black) Universal DC voltage (8-30VDC)	WT Wide Throw FCT Fixed configurable throw	BA Buy American(1) Act Compliant			

Accessories: Order as separate catalog number.	
RMTK	Remote test kit, up to 40' away (includes goggles, laser and battery)

AFF SPACING GUIDELINES



Maximum Spacing Guidelines - AFF (WT)					
Mounting Height	Illumination Level	Single Luminaire		Multiple Luminaire	Application Notes
		3' Path of Travel <td>6' Path of Travel<td>3' Path of Travel<td></td></td></td>	6' Path of Travel <td>3' Path of Travel<td></td></td>	3' Path of Travel <td></td>	
7.5'		62'	46'	69'	53'
10'	1FC Avg	48'	34'	55'	40'
12'		28'	22'	46'	41'
14'		6'	N/A	38'	36'
200' Open Space 80/50/20 reflections					

Maximum Spacing Guidelines - AFF (FCT)					
Mounting Height	Illumination Level	Single Luminaire		Application Notes	
		3' Path of Travel <td>6' Path of Travel<td></td></td>	6' Path of Travel <td></td>		
7.5'		24'	23'		
10'	1FC Avg	15'	33'		
12'		12'	33'		
14'		3'	N/A		
200' Open Space 80/50/20 reflections					

* Also meets the additional Illumination requirements of NFPA 101: 1 FC minimum and max/min ratio of 40:1.

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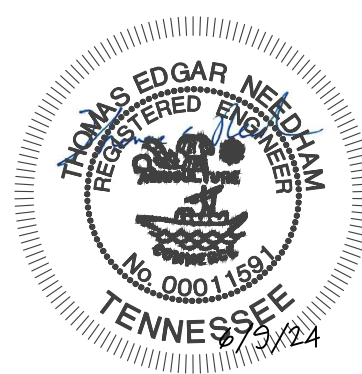
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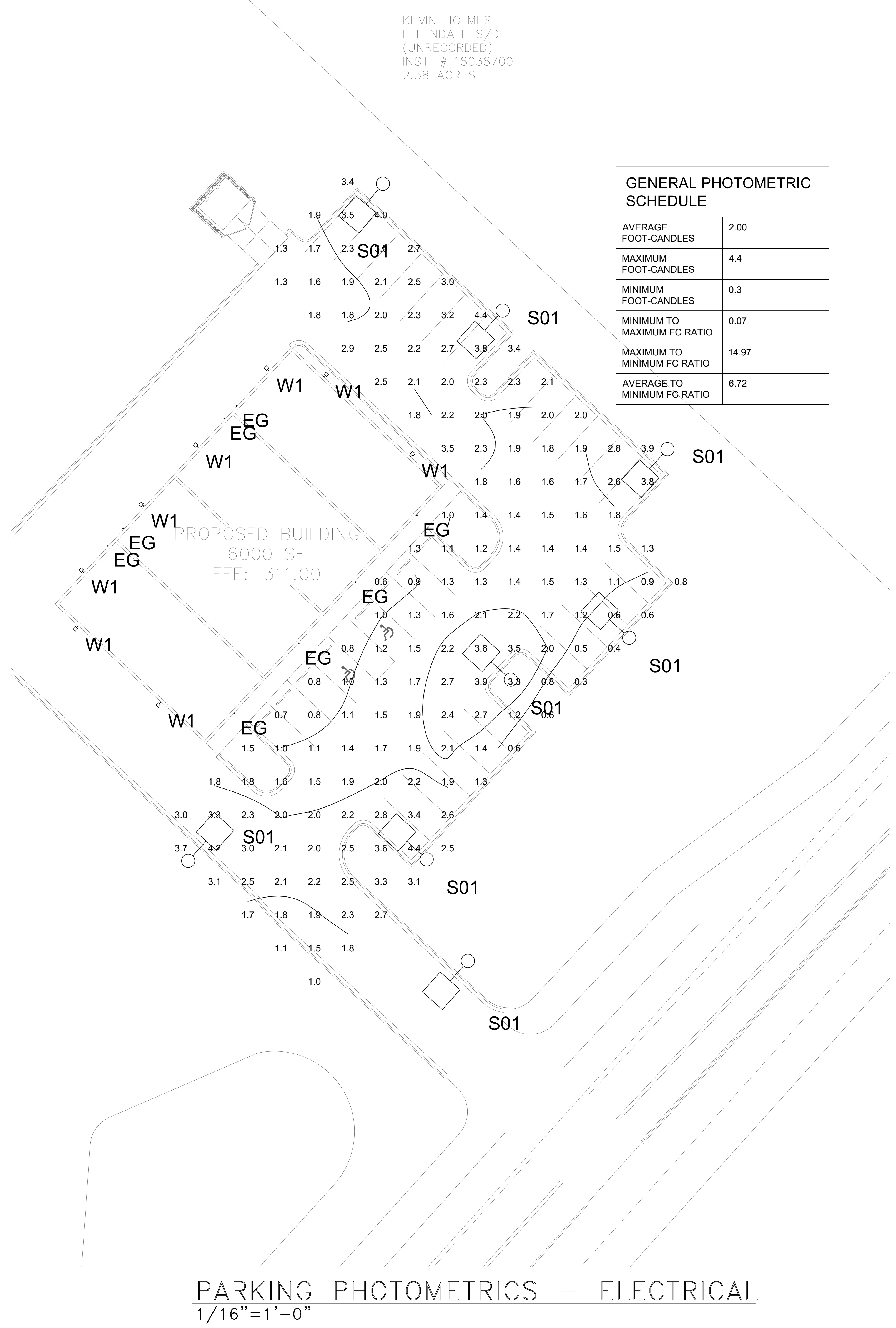
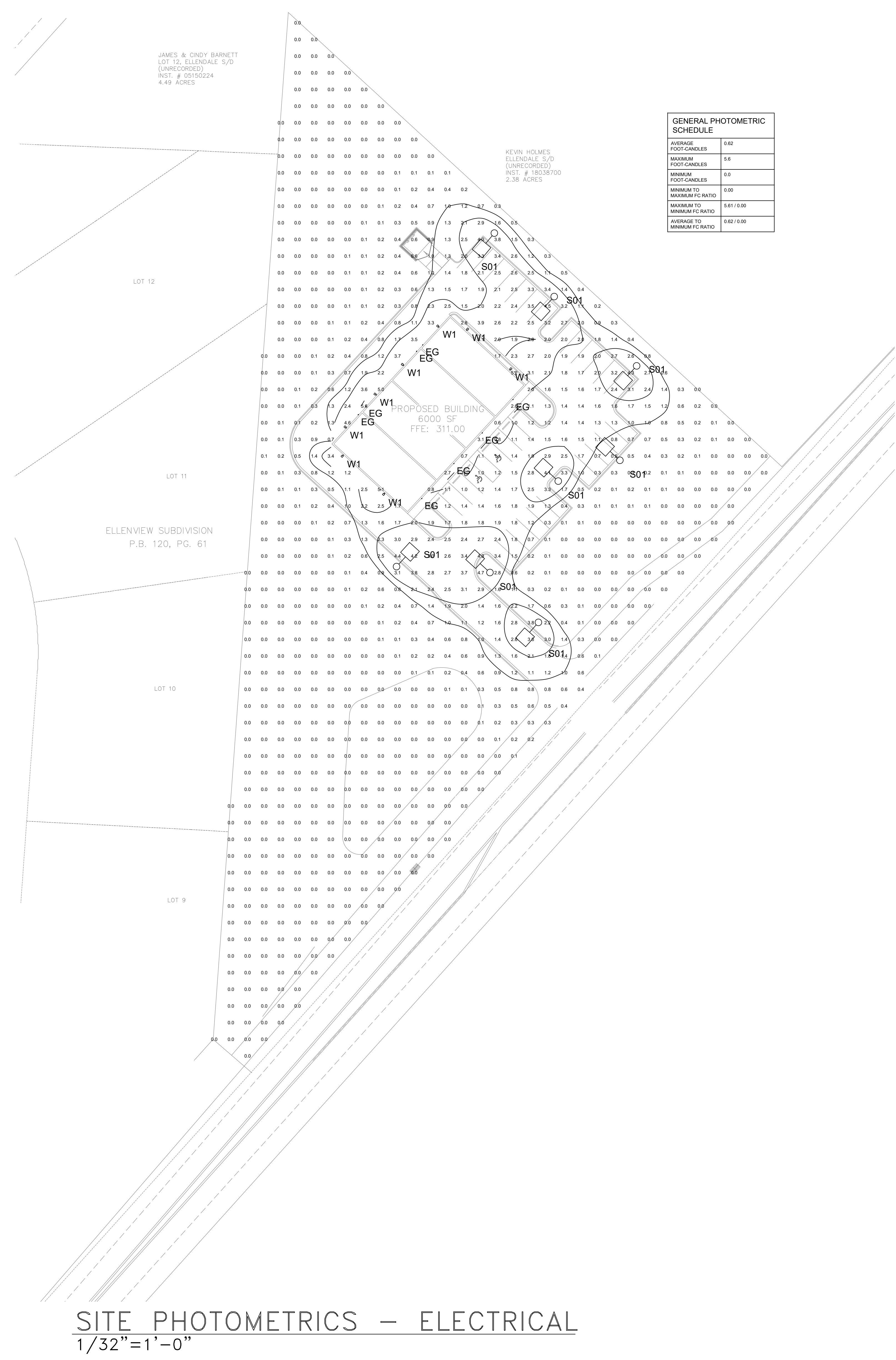
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No. Date

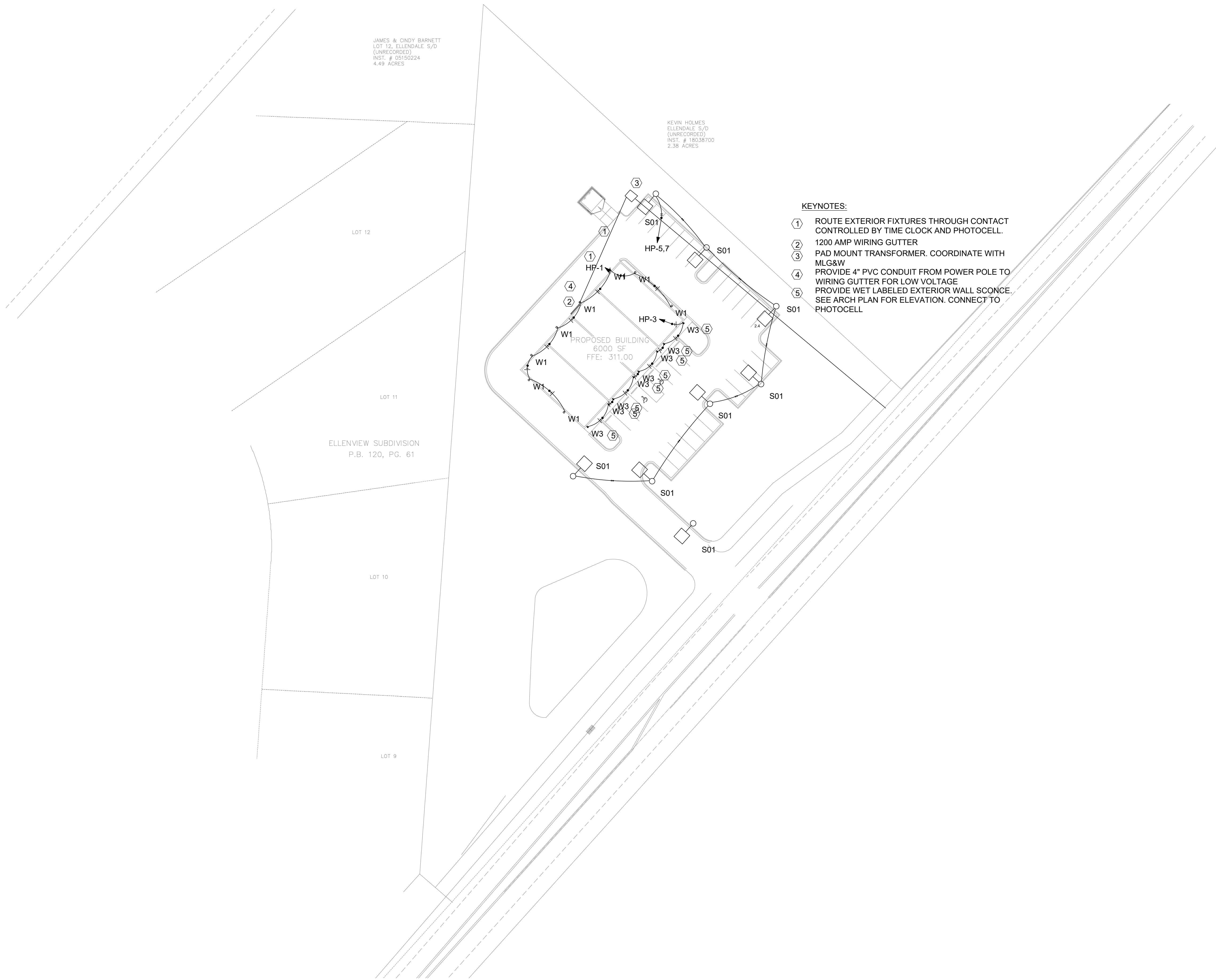
PHOTMETRICS -
ELECTRICAL

PROJECT NUMBER
4200
SCALE
AS SHOWN
SHEET NUMBER
E101
OF
DATE OF ORIGINAL ISSUE
6/9/2024



SITE PLAN — ELECTRICAL

1/32"=1'-0"



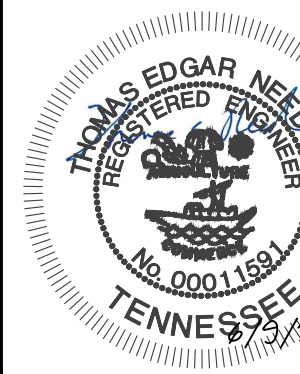
KEYNOTES:

- 1 ROUTE EXTERIOR FIXTURES THROUGH CONTACT CONTROLLED BY TIME CLOCK AND PHOTOCELL.
- 2 1200 AMP WIRING GUTTER
- 3 PAD MOUNT TRANSFORMER. COORDINATE WITH MLG&W
- 4 PROVIDE 4" PVC CONDUIT FROM POWER POLE TO WIRING GUTTER FOR LOW VOLTAGE
- 5 PROVIDE WET LABELED EXTERIOR WALL SCONCE. SEE ARCH PLAN FOR ELEVATION. CONNECT TO PHOTOCELL

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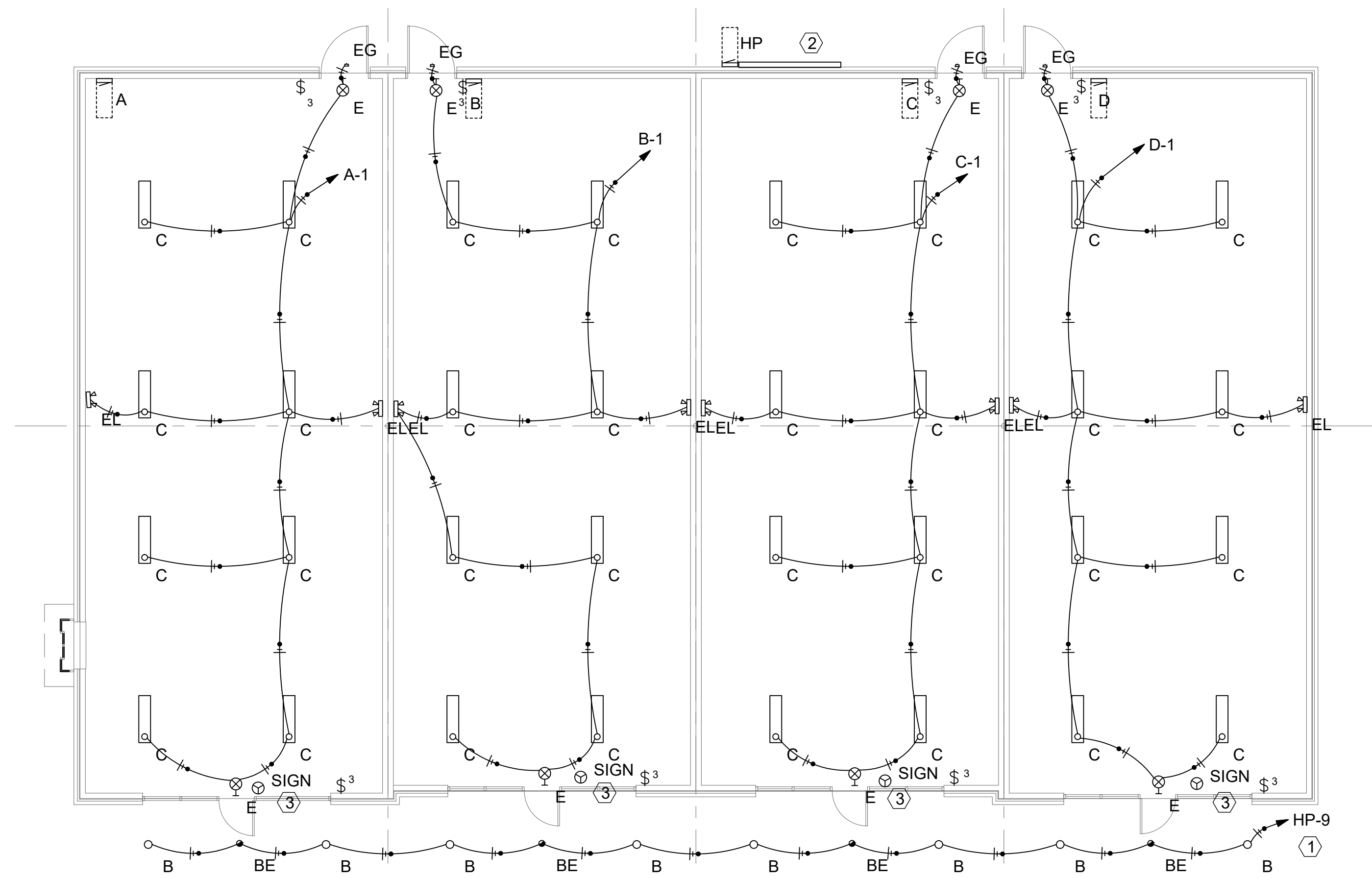
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NO.	DATE

PHOTMETRICS -
ELECTRICAL

PROJECT NUMBER
4202
SCALE
AS SHOWN
SHEET NUMBER
E102
OF
DATE OF ORIGINAL ISSUE
6/9/2024

FLOOR PLAN — ELECTRICAL

1/8"=1'-0"



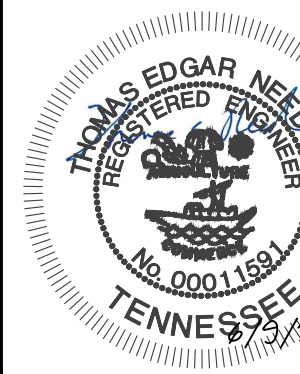
KEYNOTES:

- 1 ROUTE EXTERIOR FIXTURES THROUGH CONTACT CONTROLLED BY TIME CLOCK AND PHOTOCELL.
- 2 1200 AMP WIRING GUTTER
- 3 PROVIDE JBOX AND CIRCUIT FOR SIGN AT EXTERIOR WALL

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NO.	DATE

FLOOR PLAN -
ELECTRICAL

PROJECT NUMBER 4200
SCALE AS SHOWN
SHEET NUMBER E201
OF DATE OF ORIGINAL ISSUE 6/9/2024