



**CODE ANALYSIS**

BUILDING AND SPACE ARE FULLY SPRINKLERED	
TOTAL OCCUPANT LOAD (REF LIFE SAFETY PLAN FOR ADDITIONAL INFORMATION)	596
TOTAL OCCUPANT LOAD	596
EGRESS (REF LIFE SAFETY PLAN FOR ADDITIONAL EGRESS INFORMATION)	
EGRESS WIDTH REQUIRED	120"
EGRESS WIDTH PROVIDED	306"
MAXIMUM COMMON PATH OF TRAVEL	75'
MAXIMUM TRAVEL DISTANCE	250'

**EXIT CAPACITY**

EXIT DOOR	EXIT WIDTH (IN)	UNIT FACTOR	OCCUPANTS
1	68	0.2	340
2	34	0.2	170
3	68	0.2	340
4	34	0.2	170
5	34	0.2	170
6	34	0.2	170
7	34	0.2	170
TOTALS	REQUIRED	120	596
	PROVIDED	306	1530

**OCCUPANT LOAD CALCULATIONS**

OCCUPANCY	AREA (SF)	LOAD FACTOR	OCCUPANTS	WIDTH FACTOR	REQUIRED WIDTH (IN)
ASSEMBLY 2	8869	15	592	0.2	119
STORAGE	888	300	4	0.2	1
TOTALS	9757		596		120

**SHEET NOTES**

1. REFERENCE ELECTRICAL FOR EXIT SIGNAGE AND EMERGENCY LIGHTING, SHOWN FOR REFERENCE ONLY.
2. GO TO PROVIDE ALL FIRE EXTINGUISHERS, COORDINATE LOCATION, TYPE, AND REQUIREMENTS WITH INSPECTOR AND CLIENT. CONFIRM REQUIREMENT FOR RECESSED CABINETS WITH CLIENT.
3. CENTER EXIT SIGNS ABOVE DOOR, IN HALLWAY, OR ON AISLE, UNO

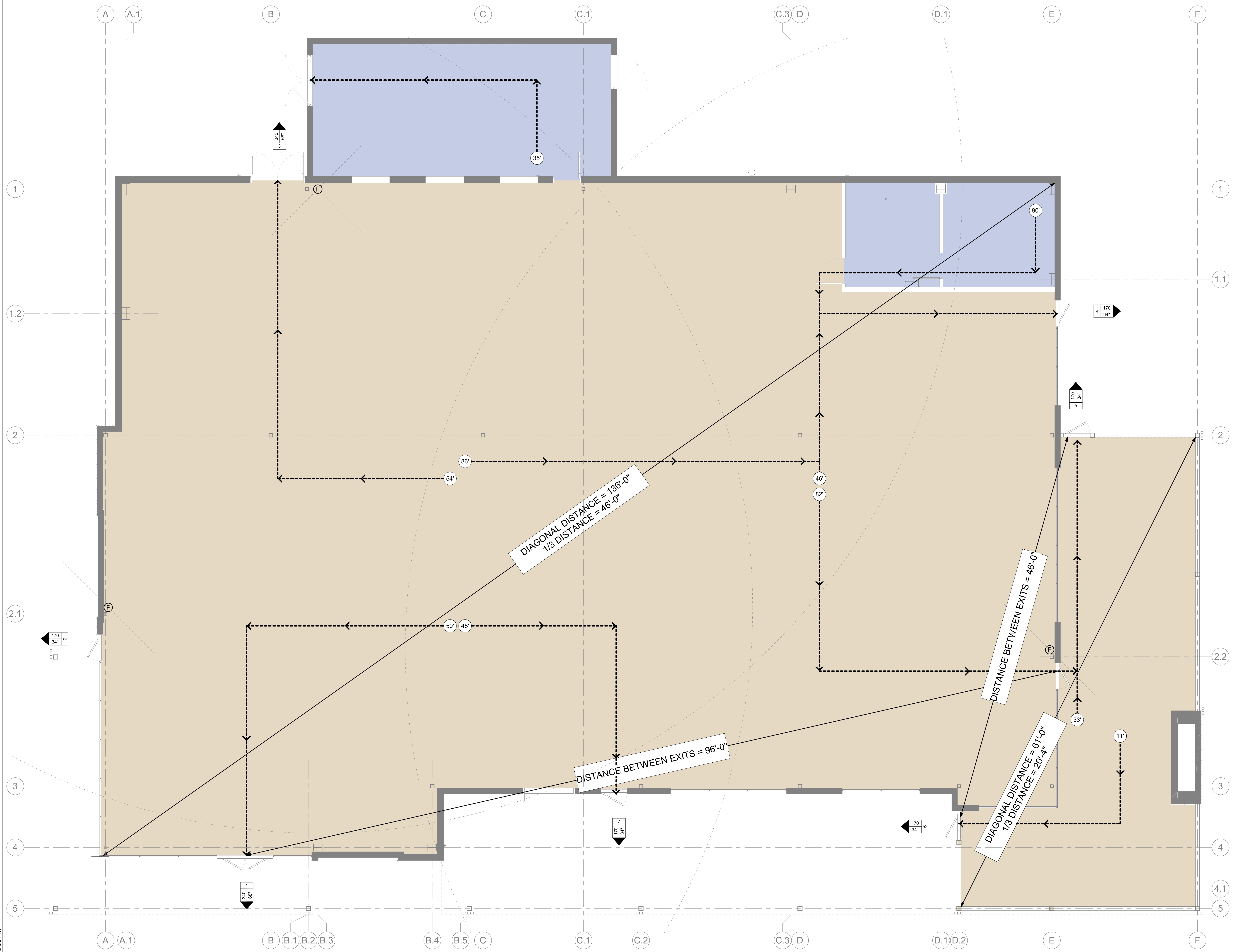
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**brr**

BRR ARCHITECTURE INC.  
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 SUITE 200  
 OVERLAND PARK, KS 66204  
 WWW.BRRARCH.COM  
 TEL: 913.263.8666  
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CONSULTANT

CLIENT



**SYMBOLS LEGEND**

- ASSEMBLY 2
- STORAGE
- PATH OF TRAVEL
- DOOR NUMBER
- OCCUPANT LOAD
- EXIT TAG
- CLEAR WIDTH
- TRAVEL DISTANCE
- FIRE EXTINGUISHER COVERAGE
- FIRE EXTINGUISHER
- EXIT SIGN
- EMERGENCY LIGHTING
- EMERGENCY LIGHTING

PROJECT TITLE

**Q39 (SHELL)**

**LEE'S SUMMIT, MO**

OLDHAM VILLAGE

PROJECT NUMBER: 62500002

PROJECT MANAGER: TM

DRAWN BY: TM

CHECKED BY: [Signature]

PROFESSIONAL SEAL

STATE OF MISSOURI

MARK SCHUBBER

REGISTERED ARCHITECT

NUMBER: A-80290

5/11/2025

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**ISSUES AND REVISIONS**

NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

5/12/2025 3:53:59 PM

**1** LIFE SAFETY PLAN

1/4" = 1'-0"

PLAN


**LIFE SAFETY PLAN**

SHEET NUMBER

**A001**



**SYMBOLS LEGEND**

- TOPOGRAPHY LINES, REF CIVIL
- - - SITE LINE VIEW ANGLE
-  VIEW ANGLE LOCATION IN PLAN

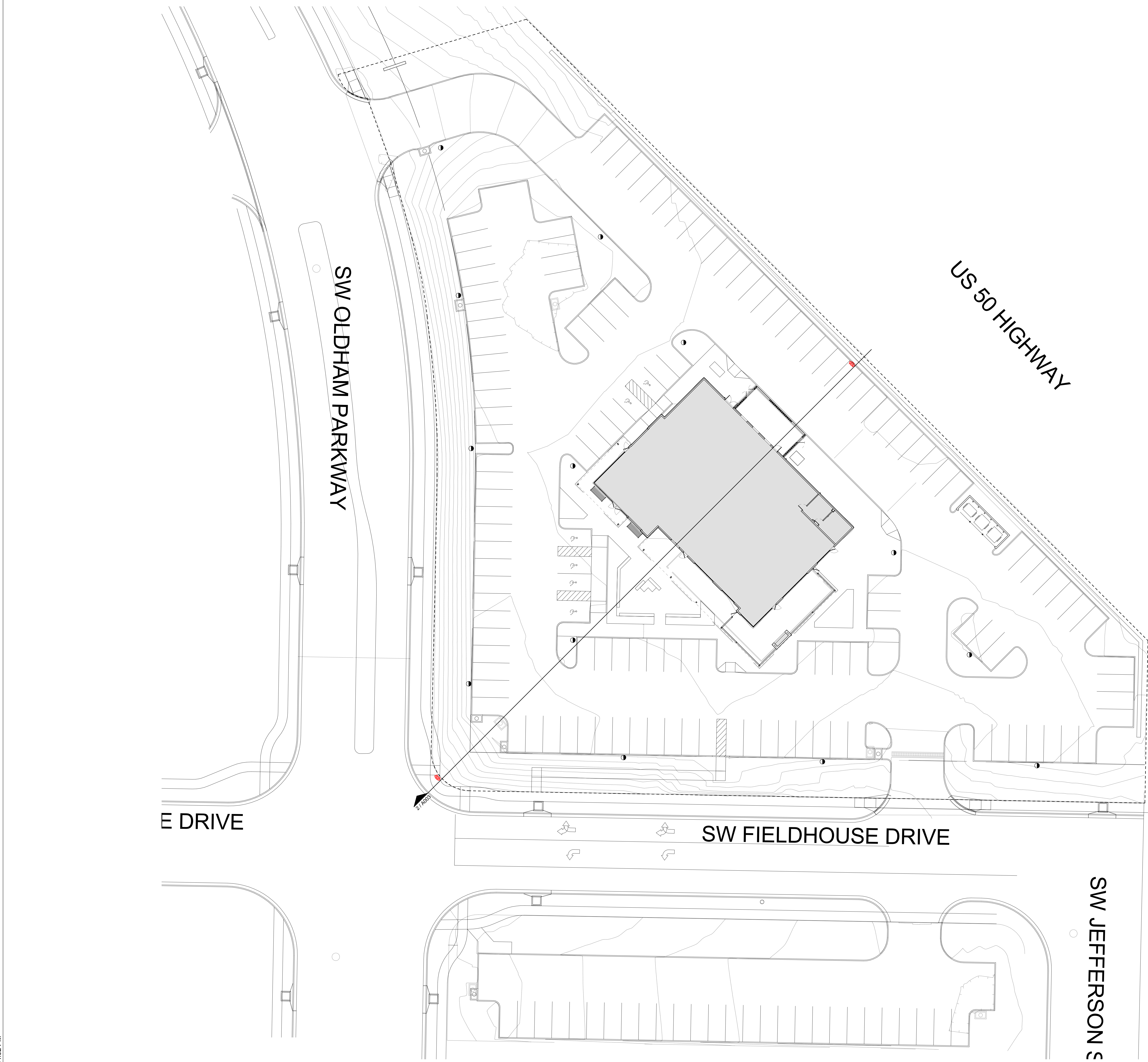
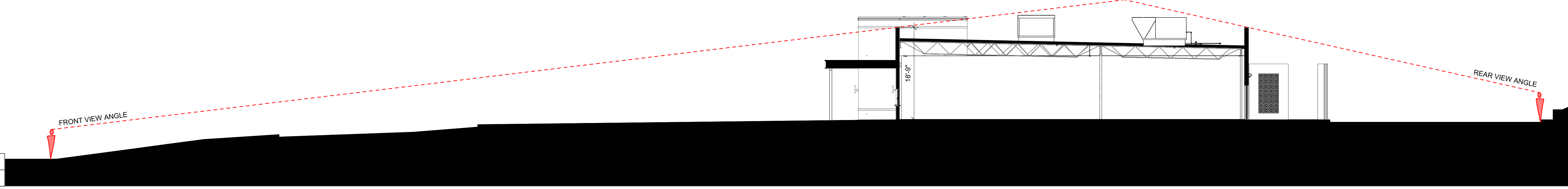
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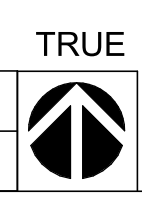
CLIENT

PROJECT TITLE

**2** SIGHT LINE STUDY SECTION  
 3/32" = 1'-0"



**1** SITE PLAN - SIGHT LINE STUDY  
 1" = 20'-0"



**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER	62500002	
PROJECT MANAGER	DRAWN BY	CHECKED BY
TM	TM	TM
PROFESSIONAL SEAL		



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**ISSUES AND REVISIONS**

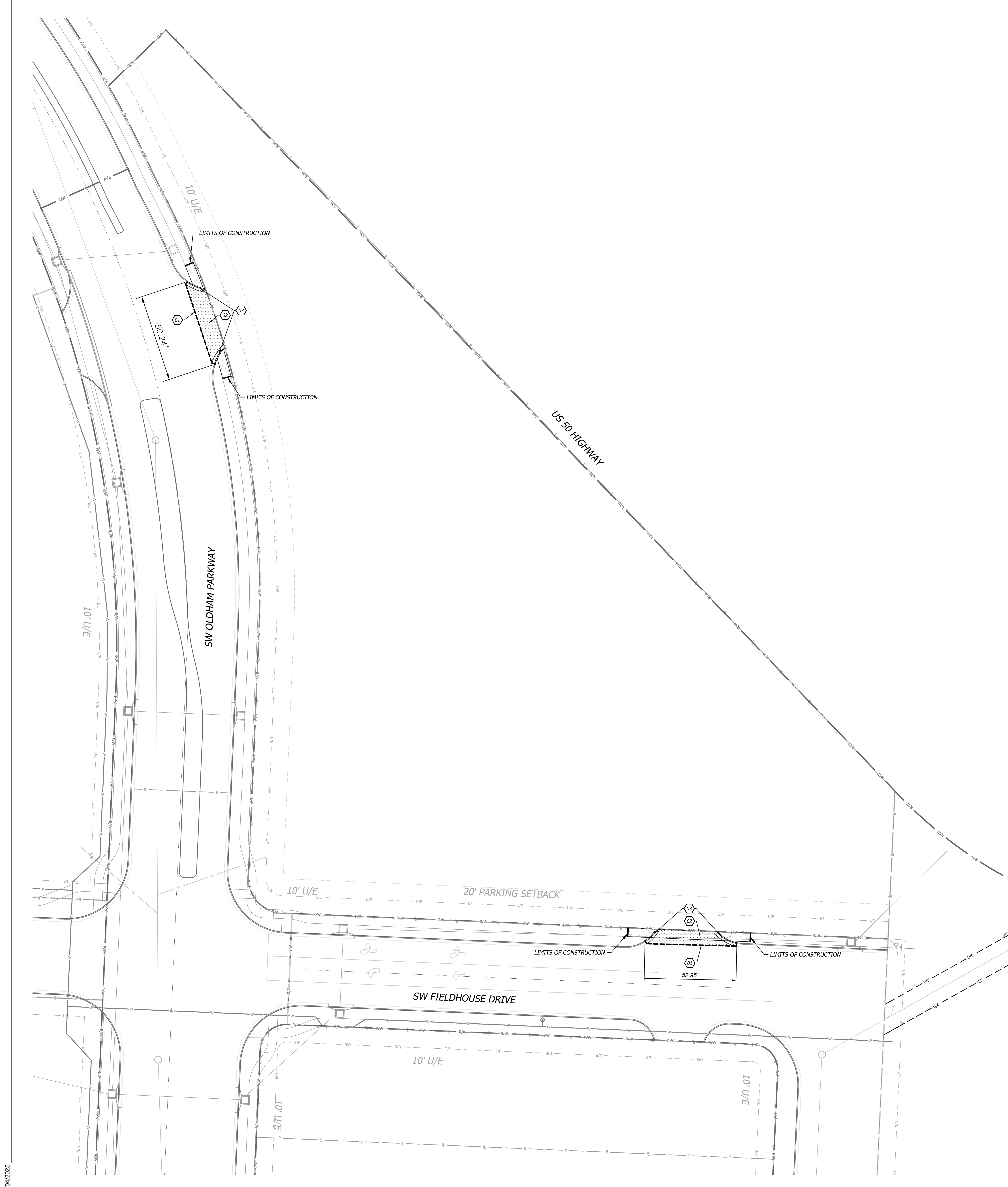
NUMBER	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

SHEET NAME

**SIGHT LINE STUDY**  
 SHEET NUMBER

**A003**

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**DEMOLITION GENERAL NOTES**

- Contractor shall verify the location, size, material and depth of all utilities prior to any excavation or construction activity.
- All materials shall be removed and disposed of off-site. It is the contractor's responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
- The contractor shall ensure that any structures to remain which are damaged during demolition operations shall be repaired to meet current code, at no additional cost to the owner.
- The contractor shall remove any and all existing debris which is encountered from the existing site. This shall include, but shall not be limited to, footings, concrete slabs, conduits, granular subgrade, utility services, and/or unsuitable structural fill material as determined by the owner's engineer. The cost for these removals shall be considered incidental to the project. Said debris shall become property of the contractor and it shall be the responsibility of the contractor to dispose of properly off-site.
- It shall be the contractor's responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
- The contractor shall be responsible for obtaining and payment of any permits for demolition that pertain to this project.
- All protection fencing shall be installed prior to demolition/construction activity. The contractor shall provide a 6-foot security fence around the entire job site with locked gated access points, if required by the owner or the City.
- All existing utilities removed during construction shall have their trenches backfilled with structural fill and be compacted to the requirements for structural fill.
- All removals required to properly perform the work (whether shown on the plans or not) shall be performed by the contractor at no additional cost to the owner.

**DEMOLITION NOTES**

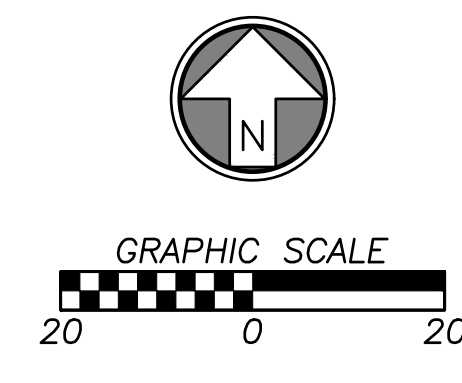
- 01 SAW CUT EXISTING PAVEMENT TO FULL DEPTH AND CLEAN EDGE.
- 02 REMOVE & DISPOSE OF EXISTING ASPHALT.
- 03 REMOVE & DISPOSE OF EXISTING CURB.

**DEMOLITION LEGEND**

- SAW CUT LINE
- [Hatched Box] ASPHALT PAVEMENT TO BE REMOVED
- [Dotted Box] CONCRETE SIDEWALK TO BE REMOVED

**LEGEND**

- RW — RIGHT - OF - WAY LINE
- P — PROPERTY LINE
- O — EXISTING OVERHEAD UTILITY LINES
- U — EXISTING UNDERGROUND ELECTRICAL LINE
- G — EXISTING GAS LINE
- W — EXISTING WATER LINE



**ARCHITECT OF RECORD**

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 p. (913) 663-1900  
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**CLIENT**

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	CHIEF BY
BRR	BRR
PROFESSIONAL SEAL	



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**ISSUES AND REVISIONS**

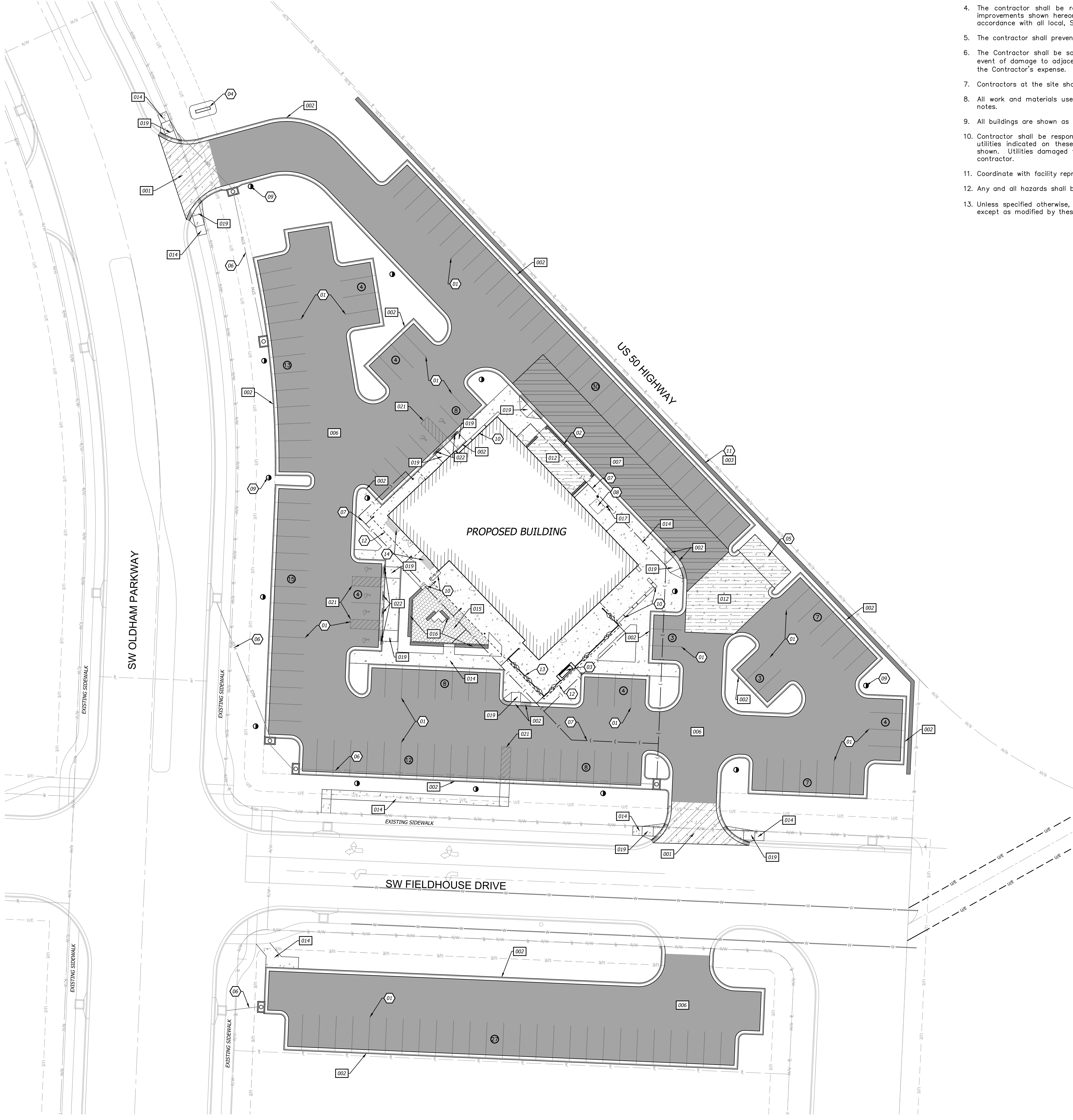
NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

DEMOLITION PLAN

SHEET NUMBER

**C100**

04/04/2025



**GENERAL NOTES**

- All work in public easement and Right-of-Way shall be installed per the requirements and specifications of the City of Lee's Summit, Missouri.
- The Contractor shall be required to obtain all Federal, State, and Local permits required for this project prior to commencing construction.
- Any work adjacent to or crossing existing streets requires proper traffic control devices. Traffic control devices shall be placed in accordance with the Manual of Uniform Traffic Control Devices (MUTCD).
- The contractor shall be required to demolish, remove and dispose of all existing structures, pavements, and features necessary to construct the improvements shown hereon. Any waste materials generated during construction shall be removed from the site by the Contractor and disposed of in accordance with all local, State, and Federal regulations governing such disposal.
- The contractor shall prevent any trash, debris, or liquid wastes from being disposed of in sanitary sewers, storm sewers, or open drainage systems.
- The Contractor shall be solely responsible to protect adjacent property, structures, and other improvements from damage during construction. In the event of damage to adjacent property, structures, or improvements, the contractor shall repair or replace such damage to the Owners's satisfaction at the Contractor's expense.
- Contractors at the site shall be solely responsible for jobsite safety for all aspects of work shown hereon.
- All work and materials used in the construction of the improvements shown hereon shall comply with all referenced standards, specifications, and plan notes.
- All buildings are shown as a reference only. All buildings shall be located and constructed per the Architectural drawings prepared by others.
- Contractor shall be responsible for contacting all utility companies for field locations of underground utilities affected by the contract. All existing utilities indicated on these plans are according to the best information available to the engineer; however, all utilities actually existing may not be shown. Utilities damaged through the negligence of the contractor to obtain the location of same shall be repaired or replaced at the expense of the contractor.
- Coordinate with facility representative as to when construction activities may be performed to work with the operations of the facility.
- Any and all hazards shall be properly identified and barricaded from access during all non-construction periods.
- Unless specified otherwise, all construction shall meet the requirements of the Missouri Department of Transportation (MODOT) Standard Specifications, except as modified by these plans.

**SITE DATA**

<b>SITE</b>	
SITE AREA:	2.49 AC 127,793 SF
<b>IMPERVIOUS AREA:</b>	
EXISTING:	127,793 SF (100.0%)
PROPOSED:	84,897 SF (66.4%)
<b>BUILDING</b>	
BUILDING AREA:	8,335 SF (6.5%)
<b>PARKING</b>	
PARKING PROVIDED:	128 STANDARD (ON-SITE) 6 HANDICAP (1 VAN) 27 STANDARD (OFF-SITE) 161 TOTAL STALLS
<b>PARKING REQUIRED:</b>	
CUSTOMER & EMPLOYEE STALLS:	126
(14 PER 1,000 SF OF GROSS FLOOR AREA)	
ADA STALLS:	6 (1 VAN)
(BASED ON 154 STANDARD STALLS)	

**ZONING**

CP-2 (PLANNED GENERAL BUSINESS DISTRICT)

**CONSTRUCTION NOTES**

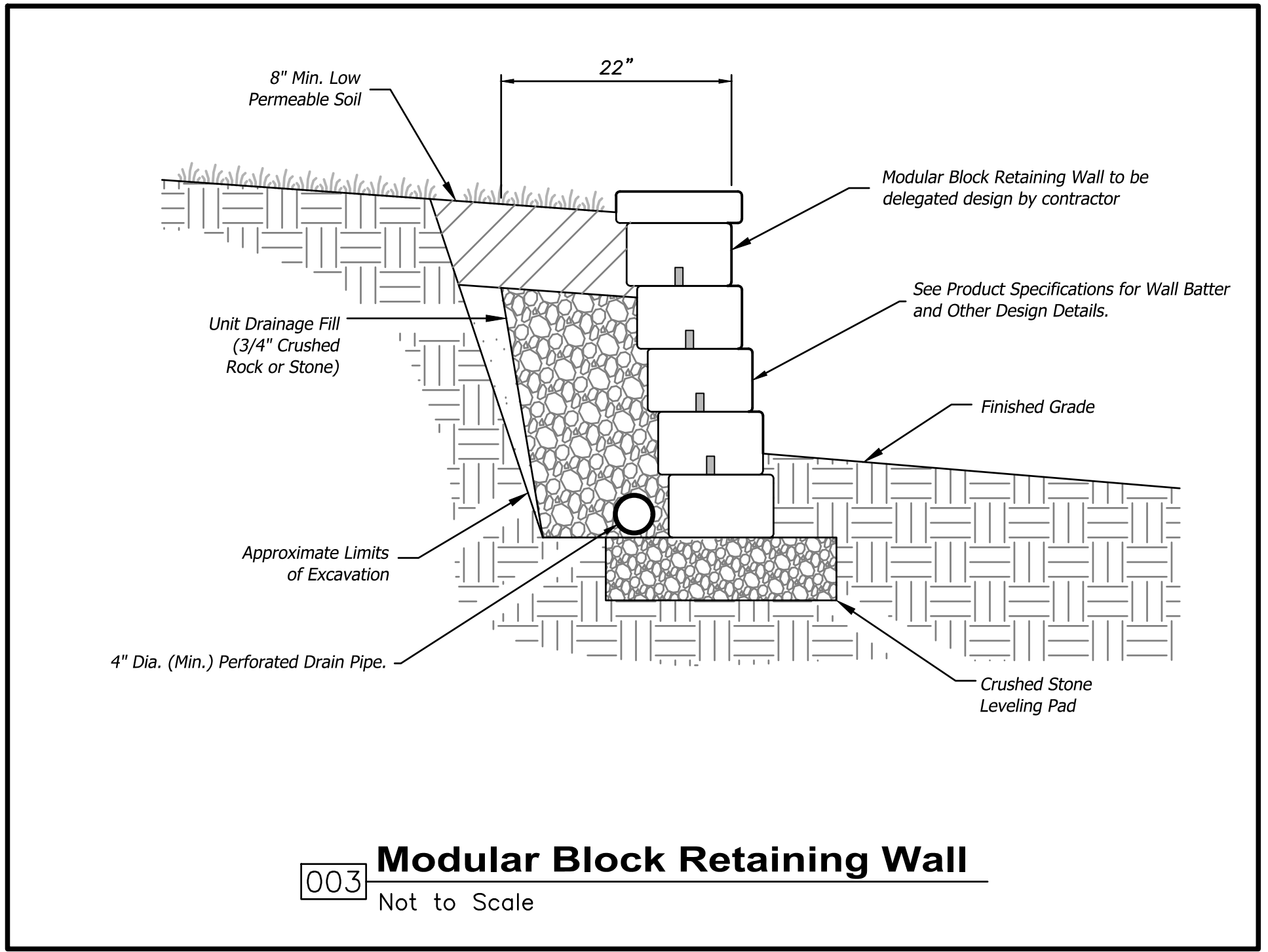
- LEAD FREE, WATER-BORNE EMULSION BASED TRAFFIC PAINT FOR PARKING LOT STRIPING (WHITE ON ASPHALT & YELLOW ON CONCRETE).
- PROPOSED SCREEN WALL; REFER TO ARCHITECTURAL PLANS.
- PROPOSED OUTDOOR FIREPLACE; REFER TO ARCHITECTURAL PLANS.
- PROPOSED MONUMENT SIGN; REFER TO ARCHITECTURAL PLANS.
- PROPOSED TRASH ENCLOSURE; REFER TO ARCHITECTURAL PLANS.
- PROPOSED STORM SYSTEM; REFER TO SHEET C700-C701
- PROPOSED ROOF DRAIN SYSTEM; REFER TO SHEET C702
- PROPOSED TRANSFORMER PAD LOCATION; CONSTRUCTED TO ENERGY STANDARDS.
- PROPOSED LIGHT POLES; REFER TO E102.
- PROPOSED PLANTERS; REFER TO ARCHITECTURAL PLANS.
- PROPOSED MODULAR BLOCK RETAINING WALL; REFER TO DETAIL 003 ON C200
- PROPOSED BUILDING CANOPY; REFER TO ARCHITECTURAL PLANS
- PROPOSED IRON FENCE; REFER TO ARCHITECTURAL PLANS; CONTRACTOR TO COORDINATE SLAB THICKNESS REQUIRED FOR RAILING ANCHORS.
- PROPOSED BENCHES; REFER TO ARCHITECTURAL PLANS.

**DETAILS**

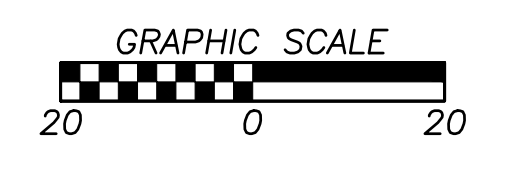
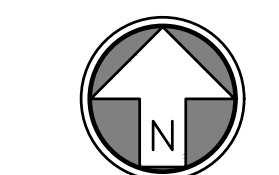
- SEE CONSTRUCTION DETAILS - SHEETS C901-C903
- DRIVEWAY ENTRANCE
  - CONCRETE CURB & GUTTERS; RE LEGEND FOR TYPE
  - MODULAR BLOCK RETAINING WALL
  - MEDIUM DUTY ASPHALT PAVEMENT
  - HEAVY DUTY ASPHALT PAVEMENT
  - CONCRETE PAD
  - CONCRETE SIDEWALK
  - PAVER AREA
  - CONCRETE SEAT WALL
  - STEEL/CONCRETE BOLLARD
  - SIDEWALK RAMP
  - (ADA) HANDICAP PARKING STRIPING
  - (ADA) HANDICAP PARKING SIGNAGE

**SITE LEGEND**

- PARKING STALL COUNT
- PROPOSED BUILDING
- MEDIUM DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAD
- STANDARD CURB & GUTTER
- ZERO HEIGHT CURB
- TRANSITION CURB



**003 Modular Block Retaining Wall**  
Not to Scale



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**BHC**

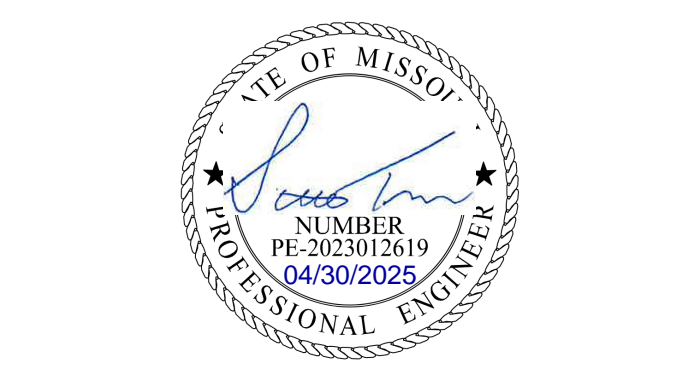
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Overland Park, Kansas 66210  
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CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE  
LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	CHOWN BY
BRR	BRR
PROFESSIONAL SEAL	CHECKED BY



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**ISSUES AND REVISIONS**

NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

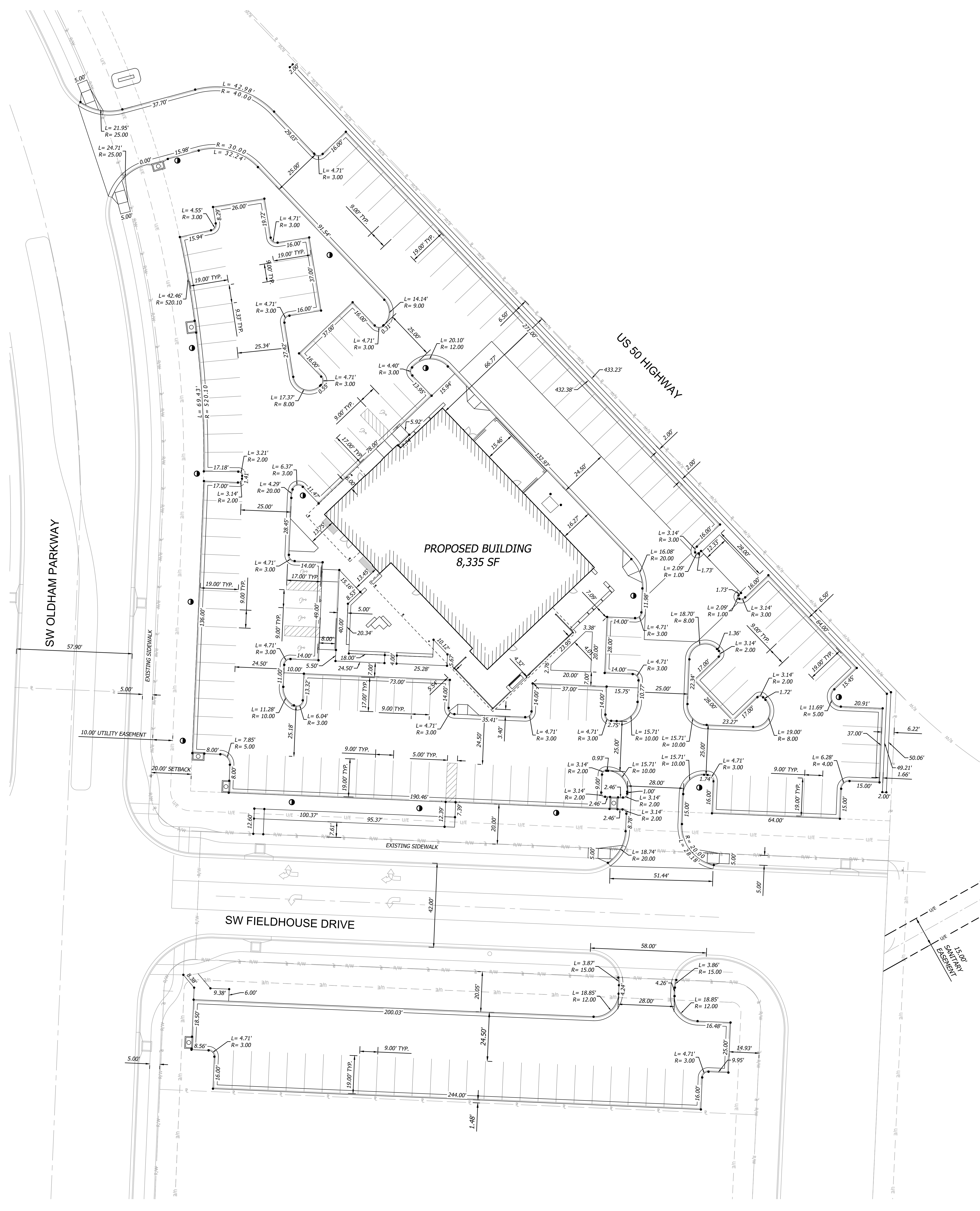
SHEET NAME

**SITE PLAN**

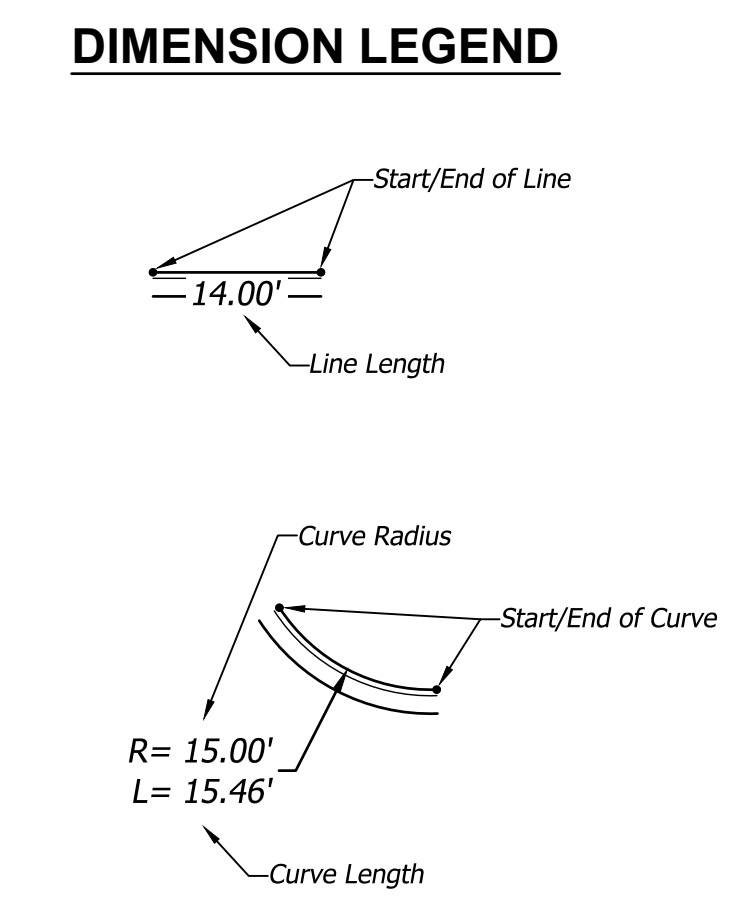
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**C200**

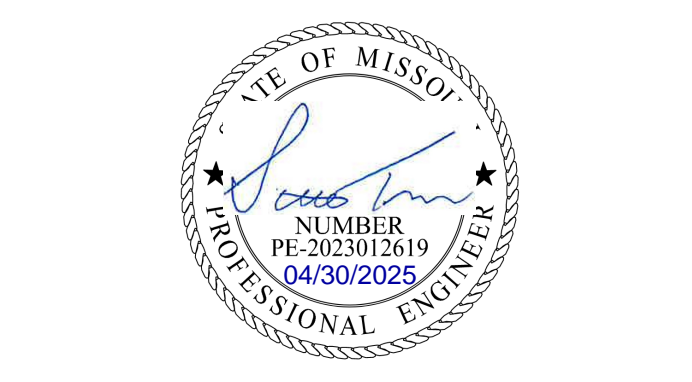
**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO



- DIMENSION NOTES**
1. All dimensions are to/along back of curb unless otherwise noted.
  2. All dimensions are to bottom of wall unless otherwise noted.



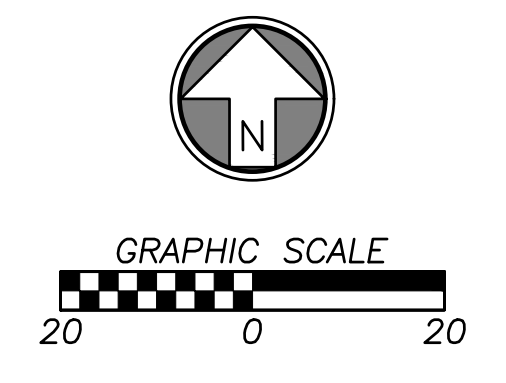
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PROJECT MANAGER	DRAWN BY	CHECKED BY	
	BRR	BRR	
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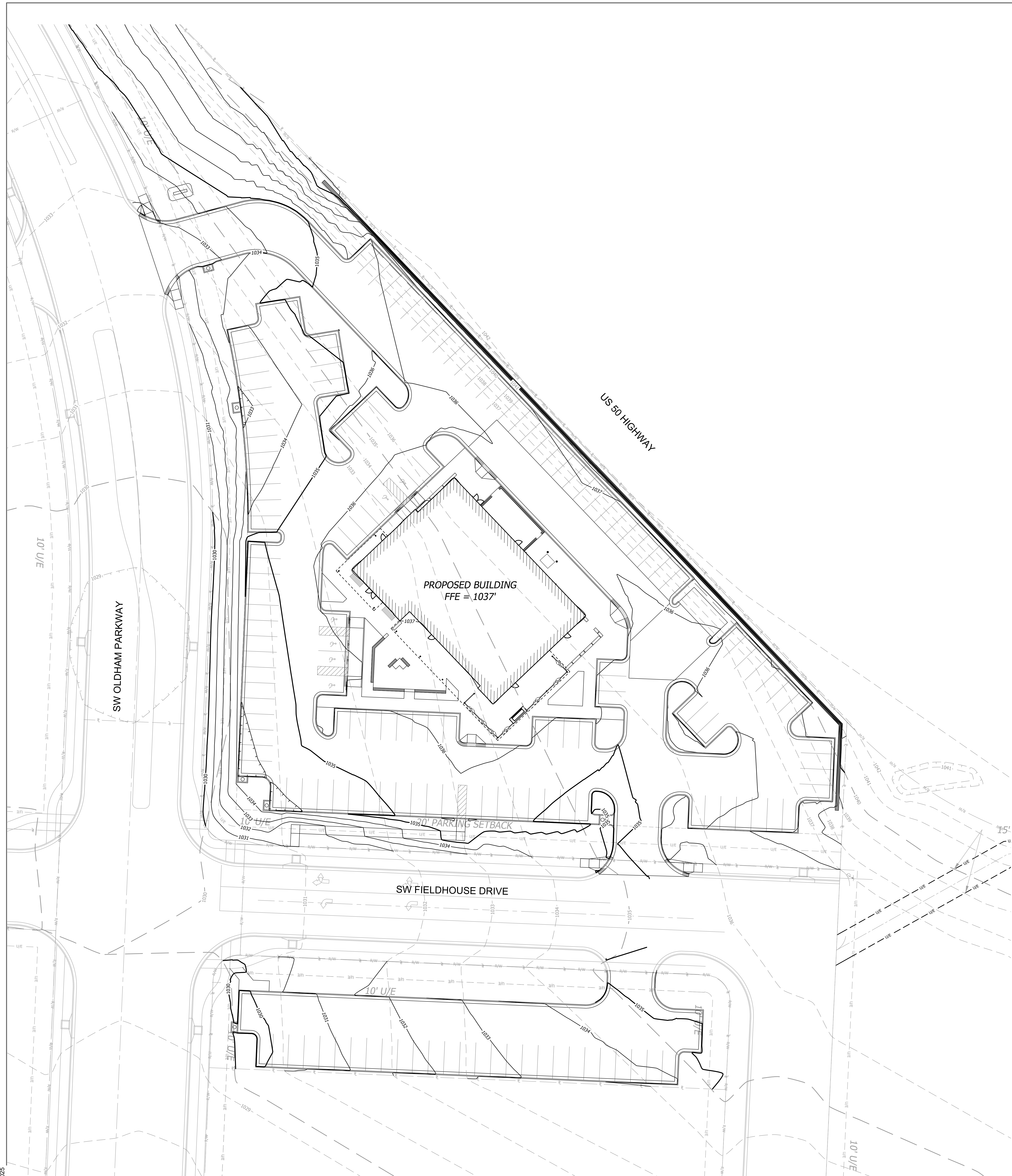
NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION



**DIMENSION PLAN**

SHEET NUMBER

**C300**



**GRADING NOTES**

- Contractor shall obtain a copy of the Geotechnical Services Report for the project and be familiar with the existing conditions and recommendations contained in the report if such a report has been prepared.
- Contractor is responsible for any over excavation of existing unsuitable soils will be required under building and pavement areas. Contractor shall perform over excavation of unsuitable soils as a part of this work.
- Contractor shall obtain soils suitable as structural fill from off-site sources. All borrow materials must be tested and approved by the Geotechnical Engineer prior to importing the soils to the project site.
- Contractor shall operate under the terms and permits included in the Stormwater Pollution Prevention Plan (SWPPP) prepared for this project and permitted through the State of Missouri. Contractor shall employ a qualified person to conduct regular inspections of the site erosion control measures and document such inspections in the SWPPP document maintained by the Contractor.
- All topsoil, vegetation, root structures, and deleterious materials shall be stripped from the ground surface prior to the placement of embankments. Contractor shall obtain the on-site geotechnical representative's acceptance of the existing ground surface materials and the proposed fill material prior to the placement of fill.
- All proposed contour lines and spot elevations shown are finish ground elevations. Contractor shall account for pavement depths, building pads, topsoil, etc when grading the site.
- All disturbed areas that are not to be paved (green spaces) shall be finish graded with a minimum of six inches of topsoil.
- All excavation and embankments shall comply with the recommendations provided by the geotechnical engineer.
- Contractor shall meet requirements as outlined in City of Lee's Summit, Missouri Standard Specifications Section 2102.4 - Excavation, Trenching, and Backfilling where applicable.
- All existing elevations are not surveyed, they are contours based on the Mass Grading plan provided by Engineering Solutions on 1/22/2025.

**FLOOD STATEMENT**

The subject property lies within Flood Zone "X" (unshaded) (Areas determined to be outside the 0.2% annual chance floodplain), as shown on the Jackson County, Missouri and Incorporated Areas Flood Insurance Rate Map (F.I.R.M.).  
 Map Number: 29095CD419G  
 Panel No: 419 of 605  
 Map Revised Date: January 20, 2017  
**NOTE:** This statement is provided for informational purposes only and shall in no way constitute a basis for a flood certificate. No field work was performed to establish the boundaries of this zone. The information was derived by scaling the subject property on the above referenced map.

**GRADING LEGEND**

- STANDARD CURB & GUTTER
- TRANSITION CURB
- ZERO HEIGHT CURB
- DRAINAGE DIRECTION
- FINISH GRADE MAJOR CONTOURS
- FINISH GRADE MINOR CONTOURS
- EXISTING GRADE MAJOR CONTOURS
- EXISTING GRADE MINOR CONTOURS
- PROPERTY LINE
- RIGHT-OF-WAY LINE

**ARCHITECT OF RECORD**

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**CLIENT**

**PROJECT TITLE**

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO

<b>PROJECT NUMBER</b>	62910099
<b>PROJECT MANAGER</b>	CHANN BY
<b>DRAWN BY</b>	BRR
<b>CHECKED BY</b>	BRR
<b>PROFESSIONAL SEAL</b>	



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**SHEET NAME**

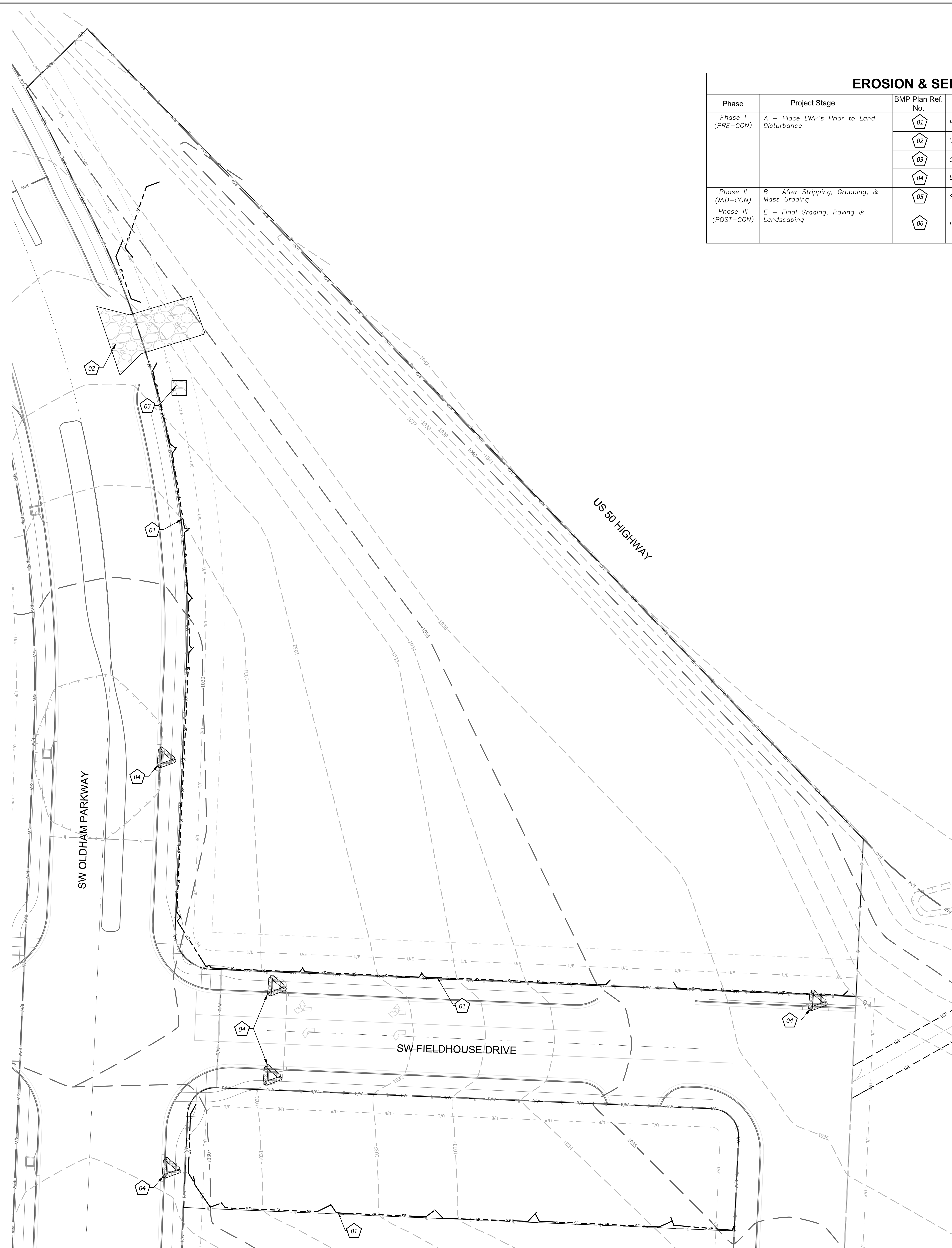
**GRADING PLAN**

**SHEET NUMBER**

**C400**

04/02/2025

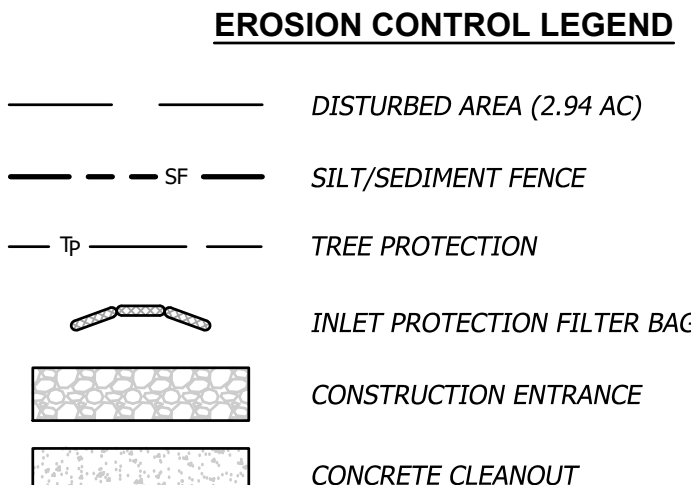




EROSION & SEDIMENT CONTROL STAGING CHART					
Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE-CON)	A - Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	E	Place as shown on plan
		02	Concrete Entrance & Staging Area	D	Place as shown on plan
		03	Concrete Wash-Out	D	Place as shown on plan
		04	Existing Inlet Protection	E	Place as shown on plan
Phase II (MID-CON)	B - After Stripping, Grubbing, & Mass Grading	05	Storm Inlet Protection	E	Place as shown on plan
Phase III (POST-CON)	E - Final Grading, Paving & Landscaping	06	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site. (RE: L1.1 Landscape Plan for the stormwater treatment facility)

**EROSION AND SEDIMENT CONTROL GENERAL NOTES**

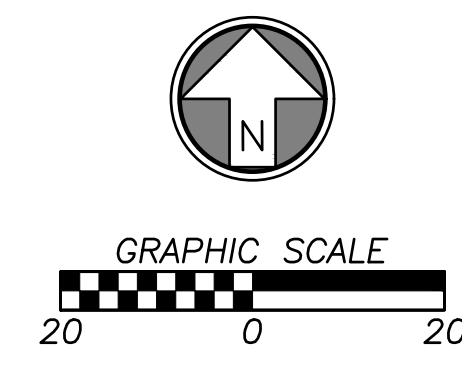
- Prior to Land Disturbance activities, the contractor shall:
  - Delineate the outer limits of any natural stream corridor designated with construction fencing.
  - Install perimeter controls and request the inspection of the pre-construction erosion and sediment control measures designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until there is a satisfactory inspection.
  - Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, and placement of physical barriers or other means acceptable to the City inspector and in conformance with the erosion and sediment control plan.
- The contractor shall comply with all requirements of the Storm Water Pollution Prevention Plan, including but not limited to:
  - The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has ceased for more than 14 days.
  - The contractor shall perform inspections of erosion and sediment control measures at the following minimum intervals:
    - o During active construction phases - at least once per week
    - o During periods of inactivity - at least once per 14 days
    - o After each rainfall event of 1/2 inch or more - within 24 hours of the rain event
  - The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The inspection log shall be available for review by the regulatory authority.
  - The contractor shall have the erosion and sediment control plan routinely updated to show all changes and amendments to the plan. A copy of the erosion and sediment control plan shall be kept on site and made available for review by the regulatory authority.
- Unless otherwise noted in the plans, all seeding must conform to Division II-Construction and Materials Specification-Section 2150 published by the Kansas City Metropolitan Chapter of the American Public Works Association dated May 21, 2008. Permanent seeding shall be installed after completion of final grading except when seeding will occur outside of the acceptable seeding season as specified in Section 2150. When temporary seeding is installed, permanent seeding shall be installed at the next seeding season. Temporary seeding shall not be used as a stabilization measure for a period exceeding 12 months. The Permit will not be closed until permanent seeding has been established to a minimum of 70% density over the entire disturbed area.
- The contractor shall maintain installed erosion and sediment control devices in a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, areas of the site intended to be left undisturbed, a storm sewer, or an on-site drainage channel.
- The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMPs in place do not provide adequate erosion and sediment control at any time during the project, the contractor shall install additional or alternate measures that provide effective control.
- Concrete wash or rinse water from concrete mixing equipment, tools and/or ready-mix trucks, tools, etc. may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place.
- Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials stored outside must be in closed and sealed water-proof containers and located outside of drainage ways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law and immediate actions taken to contain them.
- Silt fences and erosion control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction; however, anticipated disturbance by utility construction shall not delay installation.
- Interior Silt Fence as necessary during construction. Portions may be limited as vegetation is established and hardscape is installed. Entire length may be installed at the contractor's option to aid in stabilizing slopes.
- Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After inspections, provide the City of Lee's Summit with reports and documentation.



**DETAILS**

• SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING

600	TEMPORARY CONSTRUCTION ENTRANCE
601	FILTER FABRIC SILT FENCE
603	STORM INLET PROTECTION
604	CONCRETE WASH-OUT



ARCHITECT OF RECORD

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CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	DAWN BY
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PROFESSIONAL SEAL	



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**ISSUES AND REVISIONS**

NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME

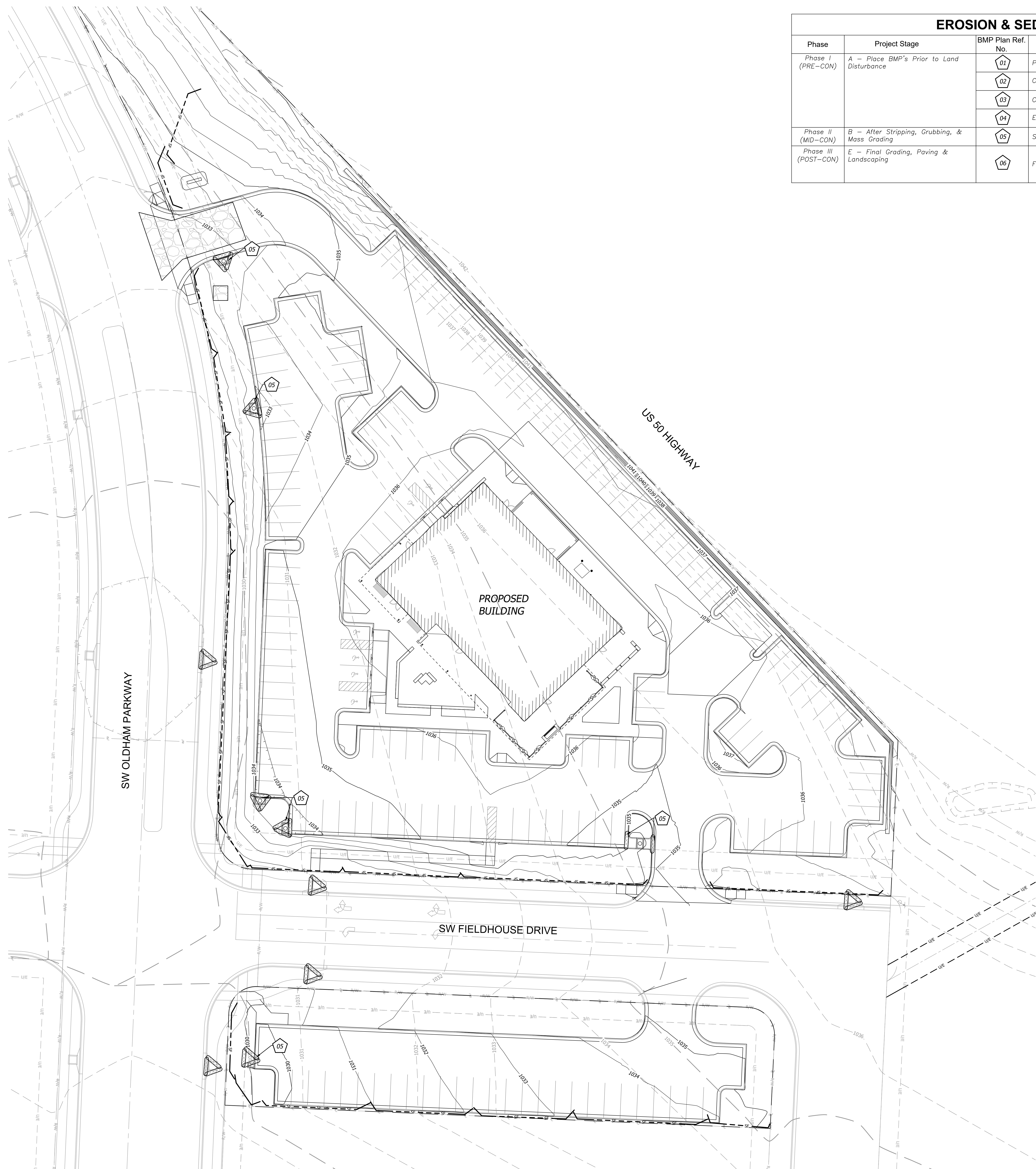
**PRE-CONSTRUCTION EROSION**

SHEET NUMBER

**C500**

04/04/2025

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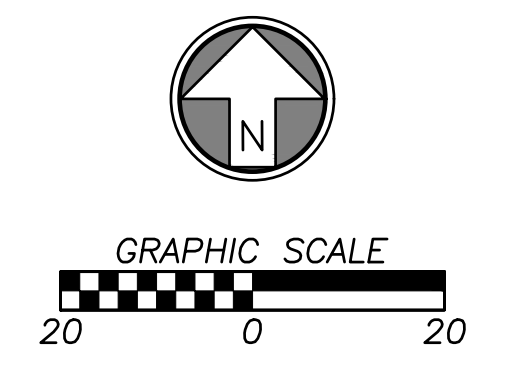


EROSION & SEDIMENT CONTROL STAGING CHART					
Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE-CON)	A - Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	E	Place as shown on plan
		02	Concrete Entrance & Staging Area	D	Place as shown on plan
		03	Concrete Wash-Out	D	Place as shown on plan
		04	Existing Inlet Protection	E	Place as shown on plan
Phase II (MID-CON)	B - After Stripping, Grubbing, & Mass Grading	05	Storm Inlet Protection	E	Place as shown on plan
Phase III (POST-CON)	E - Final Grading, Paving & Landscaping	06	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site. (RE: L1.1 Landscape Plan for the stormwater treatment facility)

**EROSION CONTROL LEGEND**

	DISTURBED AREA (2.94 AC)
	SILT/SEDIMENT FENCE
	INLET PROTECTION FILTER BAGS
	CONSTRUCTION ENTRANCE
	STAGING AREA
	CONCRETE CLEANOUT

- 000 DETAILS**  
 • SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING
- 600 TEMPORARY CONSTRUCTION ENTRANCE
  - 601 FILTER FABRIC SILT FENCE
  - 603 STORM INLET PROTECTION
  - 604 CONCRETE WASH-OUT



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**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	BRR
DRAWN BY	BRR
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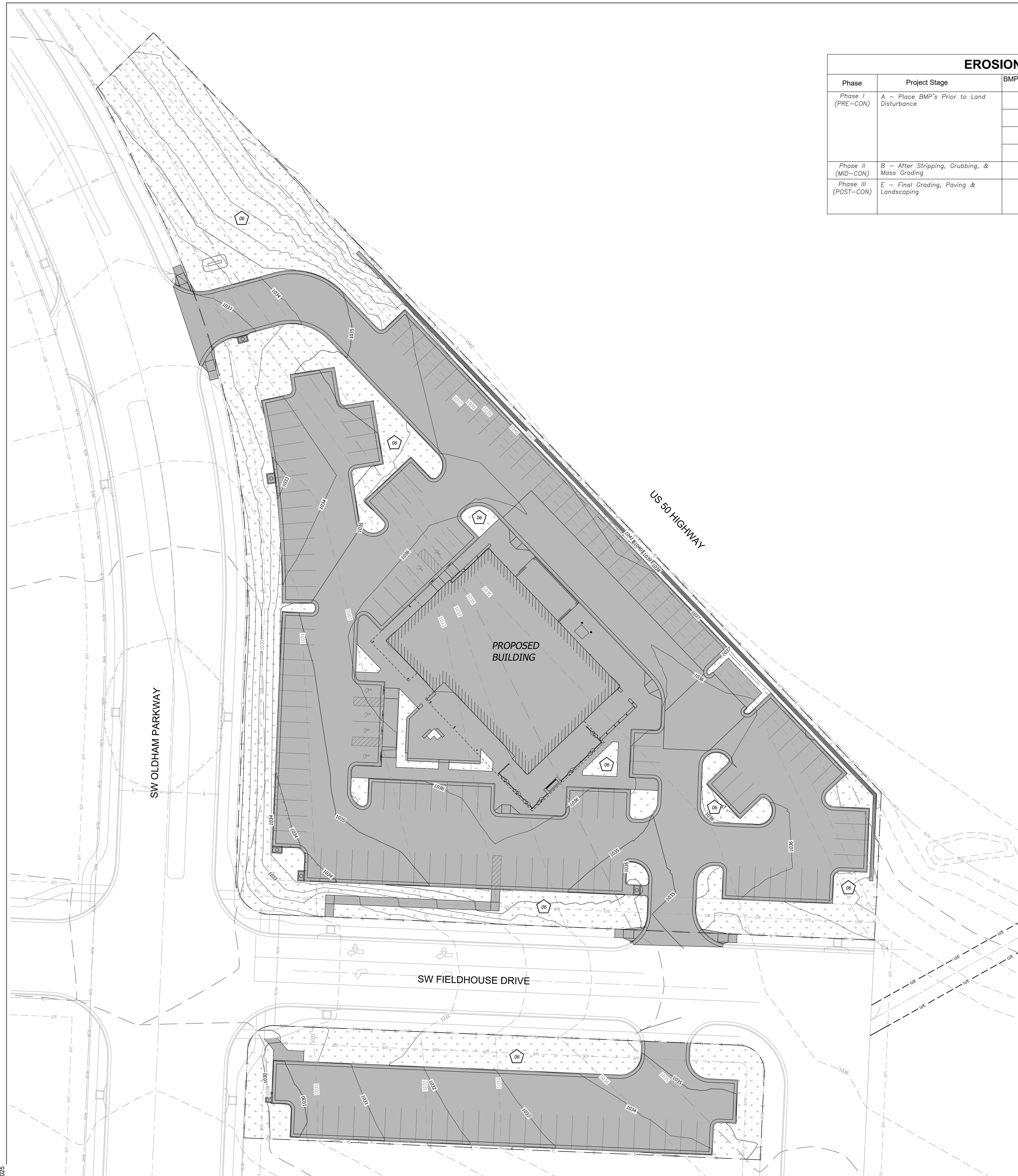
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**ISSUES AND REVISIONS**

NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

**MID-CONSTRUCTION EROSION**  
 SHEET NUMBER

**C501**



### EROSION & SEDIMENT CONTROL STAGING CHART

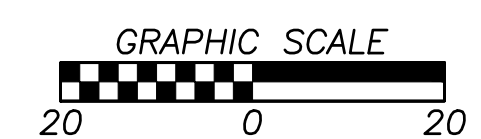
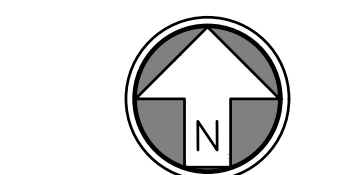
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Phase III (POST-CON)	E - Final Grading, Paving & Landscaping	06	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site. (RE: LT.1 Landscape Plan for the stormwater treatment facility)

#### EROSION CONTROL LEGEND

- DISTURBED AREA (2.94 AC)
- FINAL SEEDING (SOD &/OR LANDSCAPING)
- IMPERVIOUS AREA (2.00 AC)

#### 000 DETAILS

- SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING
- 600 TEMPORARY CONSTRUCTION ENTRANCE
- 601 FILTER FABRIC SILT FENCE
- 603 STORM INLET PROTECTION
- 604 CONCRETE WASH-OUT



**ARCHITECT OF RECORD**

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**PROJECT TITLE**

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO

**PROJECT NUMBER** 62910099

**PROJECT MANAGER** BRR    **DRAWN BY** BRR    **CHECKED BY** BRR

**PROFESSIONAL SEAL**

PROJECT NUMBER	DATE	CHECKED BY
62910099		BRR



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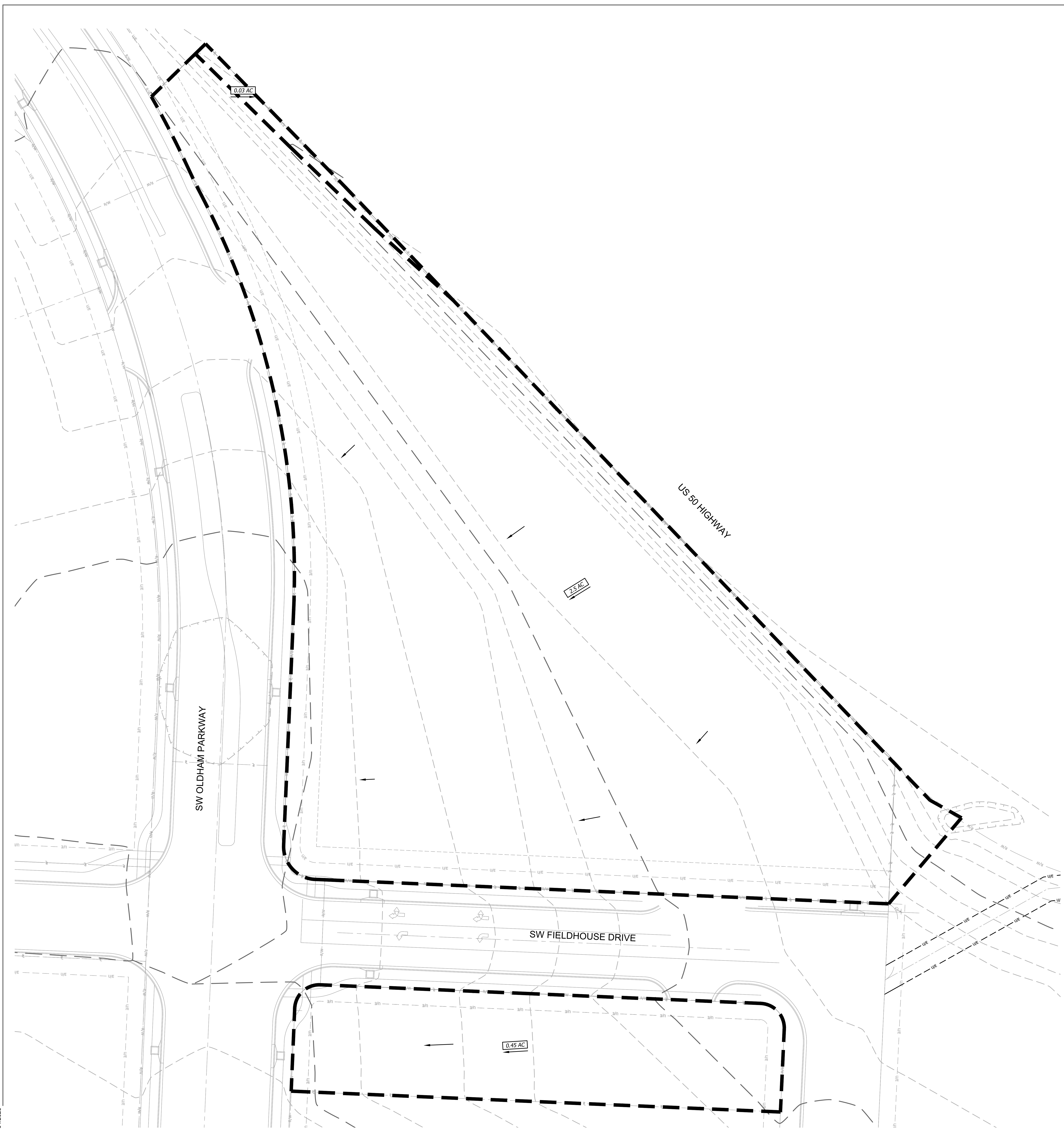
NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

**SHEET NAME**

**POST-CONSTRUCTION EROSION**

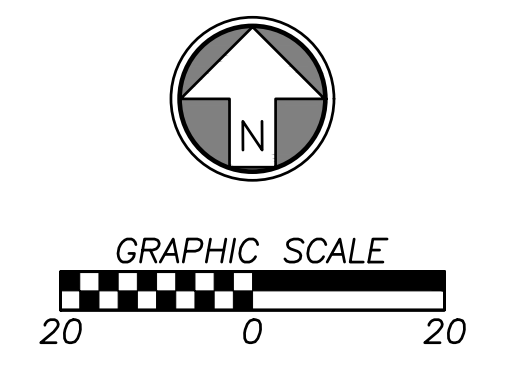
**SHEET NUMBER**

**C502**



**DRAINAGE LEGEND**

	DRAINAGE AREA BOUNDARY
	DRAINAGE DIRECTION
	AREA/DIRECTION OF DRAINAGE BOUNDARY
	EXISTING GRADE MAJOR CONTOUR
	EXISTING GRADE MINOR CONTOUR
	PROPERTY LINE
	RIGHT-OF-WAY LINE



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 LEE'S SUMMIT, MO

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**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1 <td>06/02/2023 <td>ORIGINAL ISSUE</td> </td>	06/02/2023 <td>ORIGINAL ISSUE</td>	ORIGINAL ISSUE

SHEET NAME  
**EXISTING DRAINAGE MAP**  
 SHEET NUMBER

**C600**

04/04/2025

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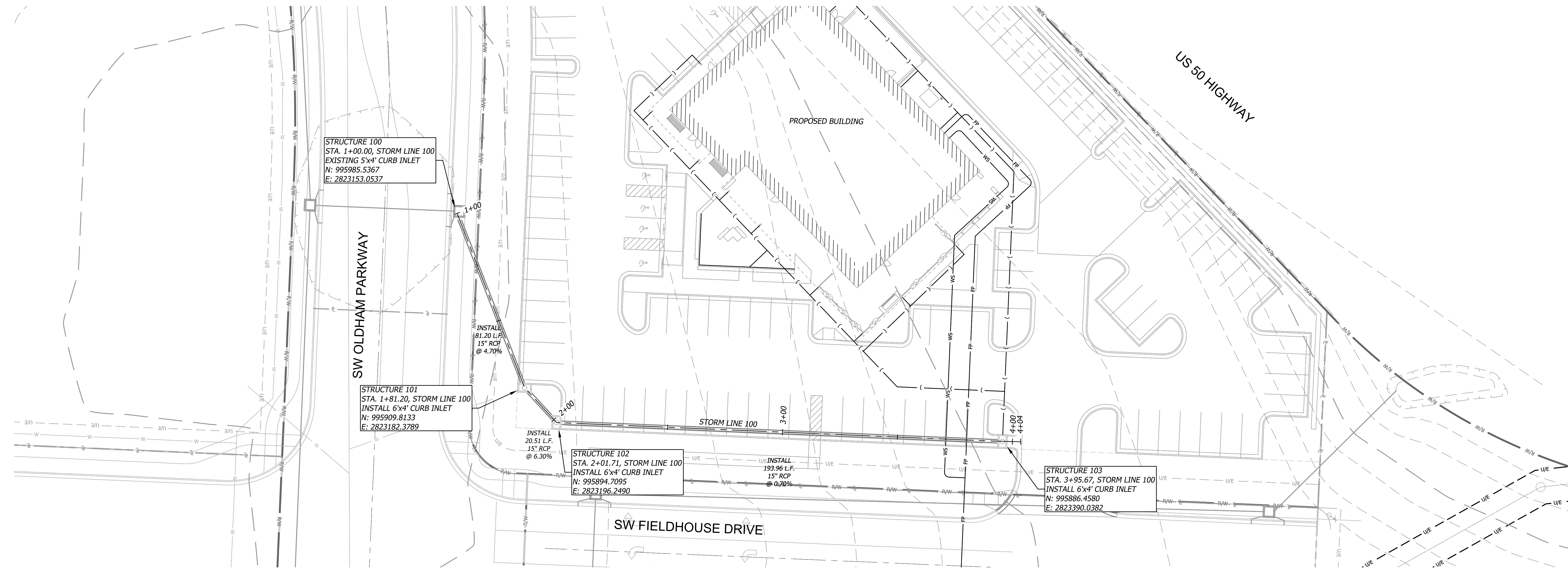
NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME: **PROPOSED DRAINAGE MAP**  
 SHEET NUMBER

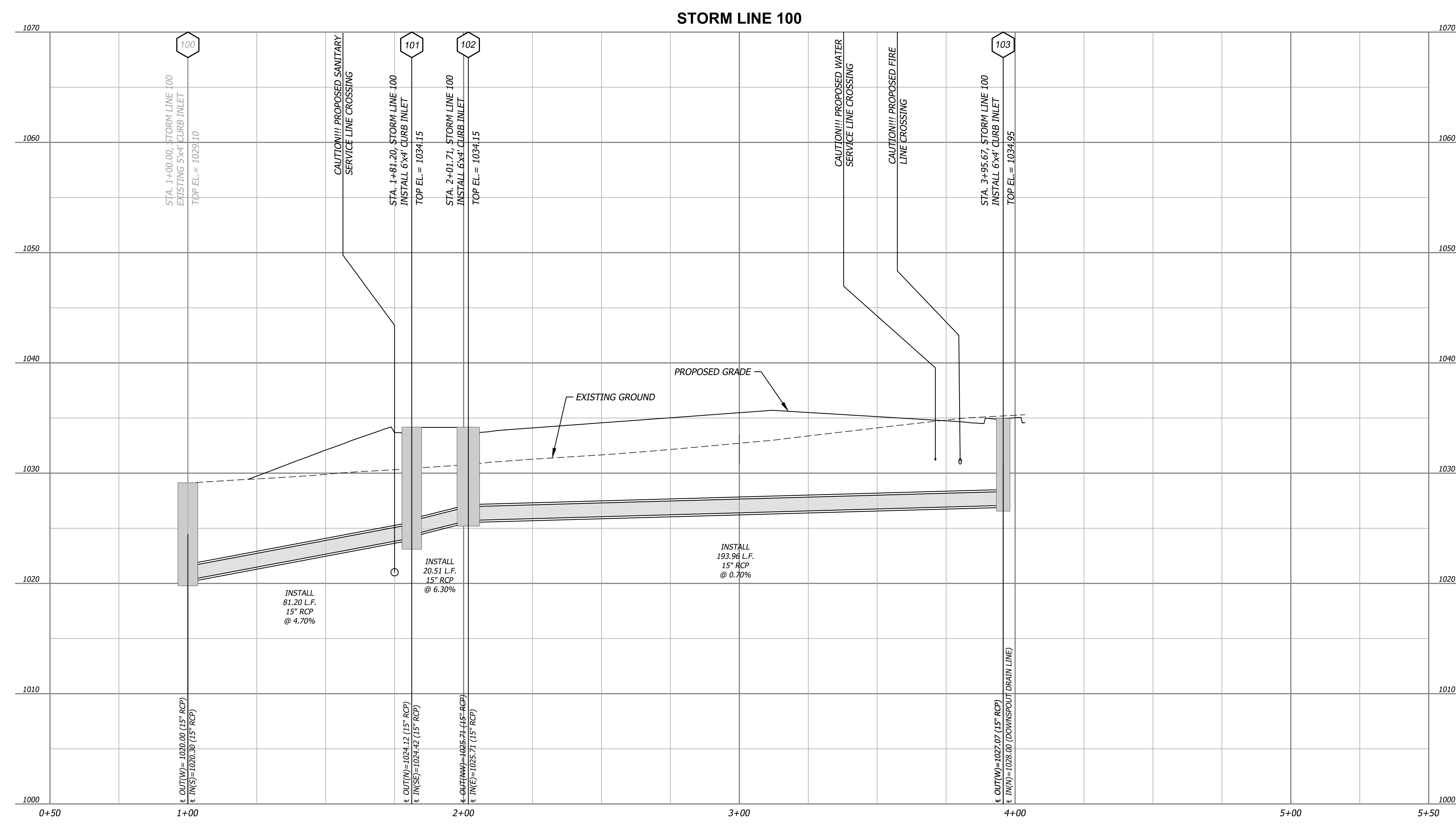
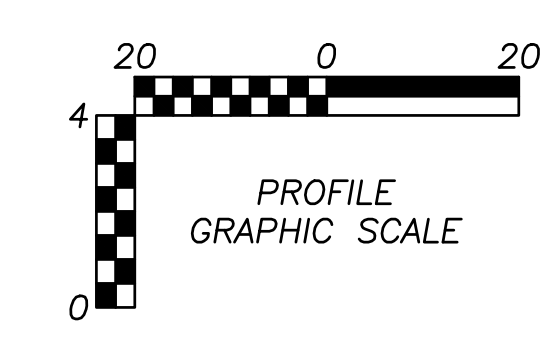
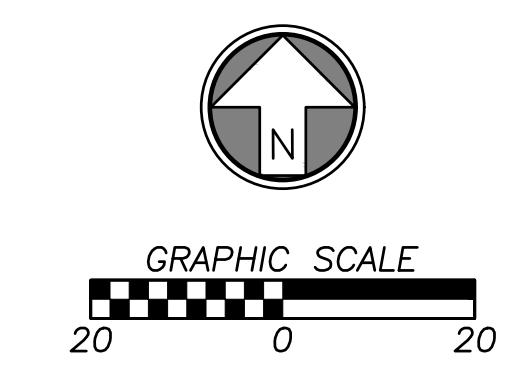
**C601**

04/04/2025

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**CLIENT**

**PROJECT TITLE**

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO

<b>PROJECT NUMBER</b>	62910099
<b>PROJECT MANAGER</b>	DAVID BY
<b>CHECKED BY</b>	BRR
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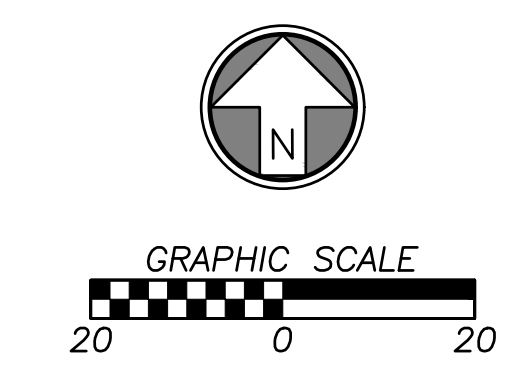
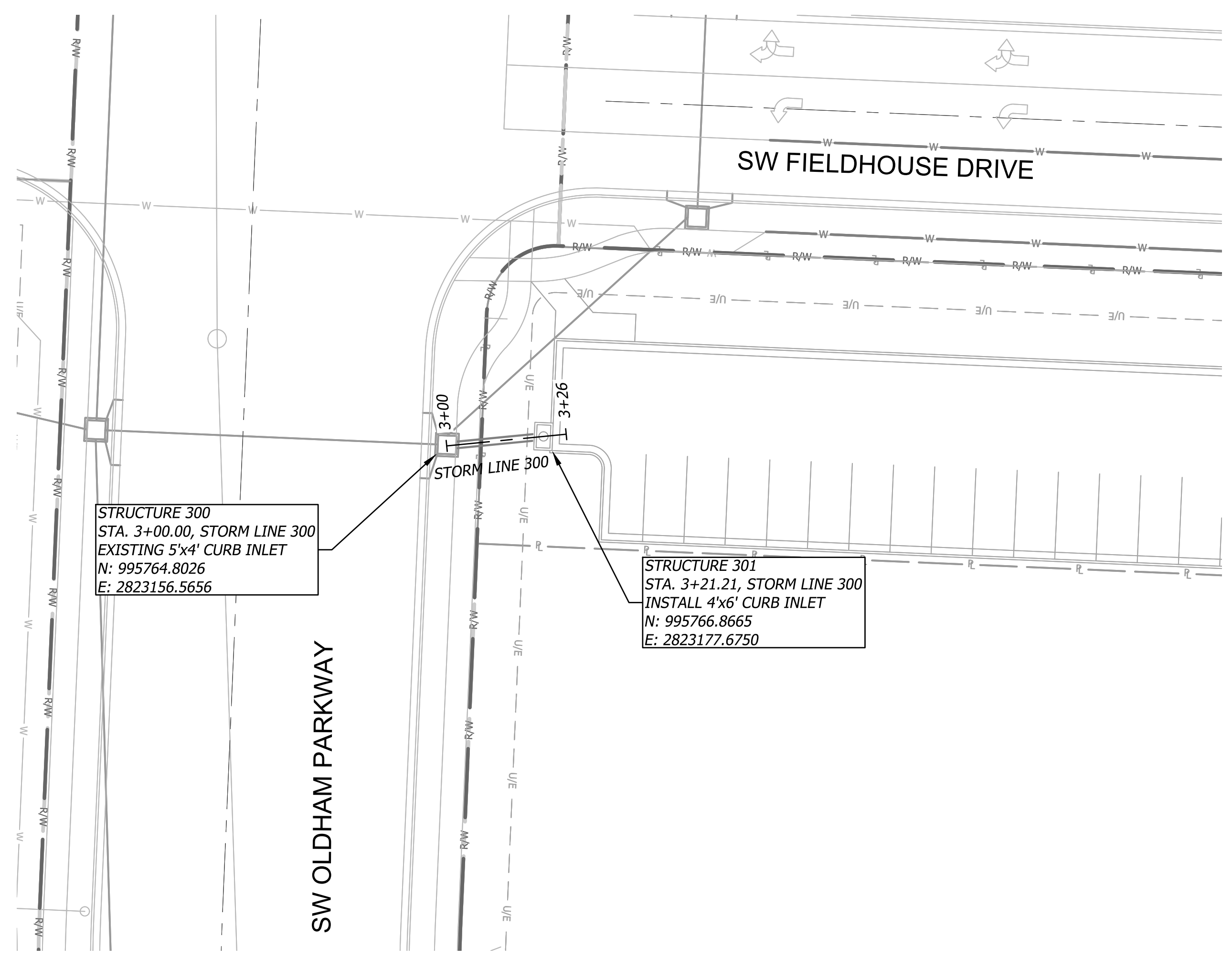
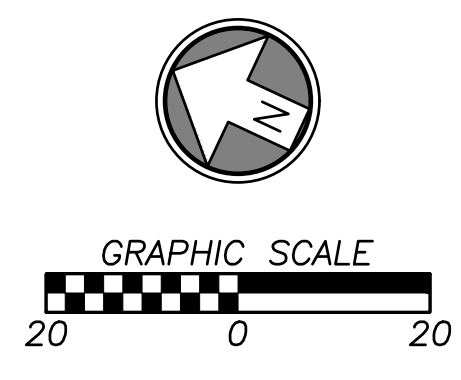
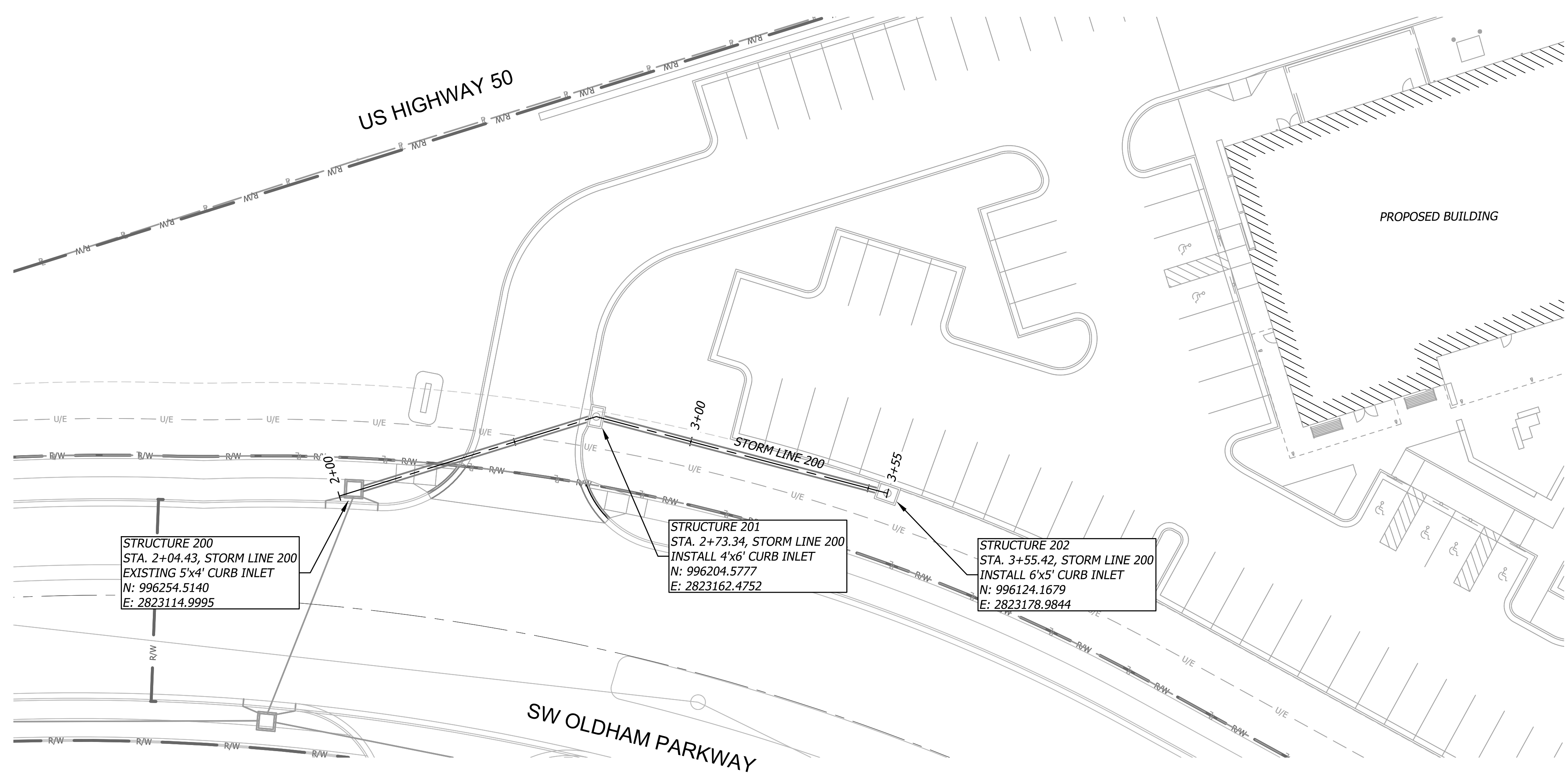
**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1	08/26/2025	ORIGINAL ISSUE

**SHEET NAME**

**STORM LINE 100**  
**SHEET NUMBER**

**C700**



**STORM NOTE**  
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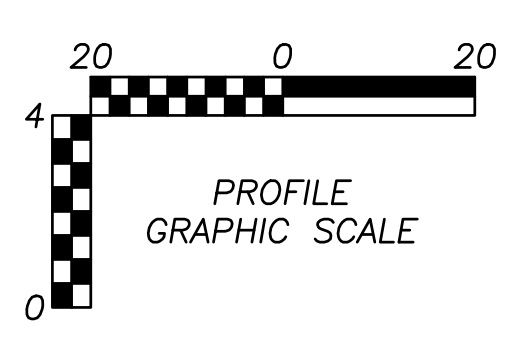
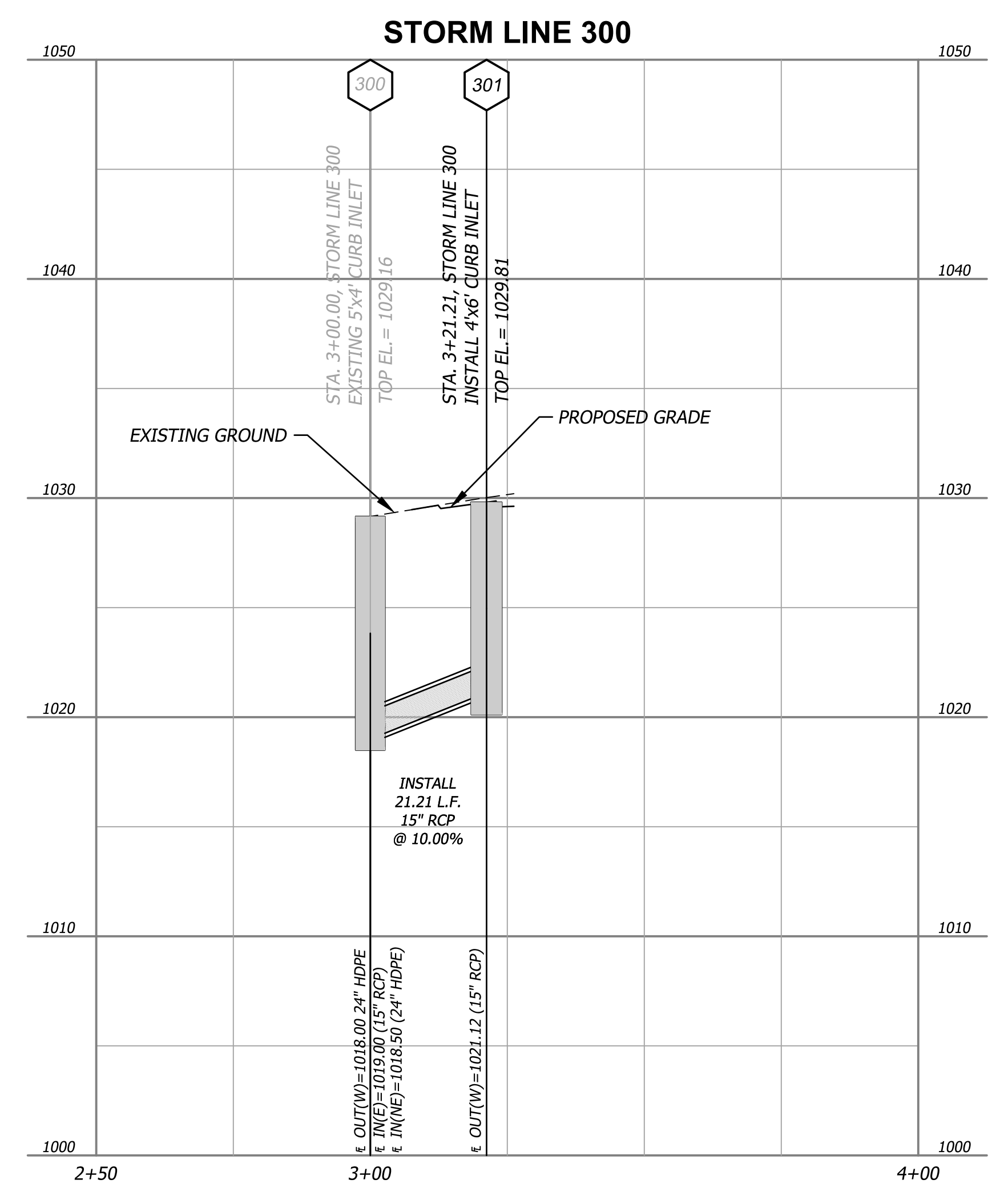
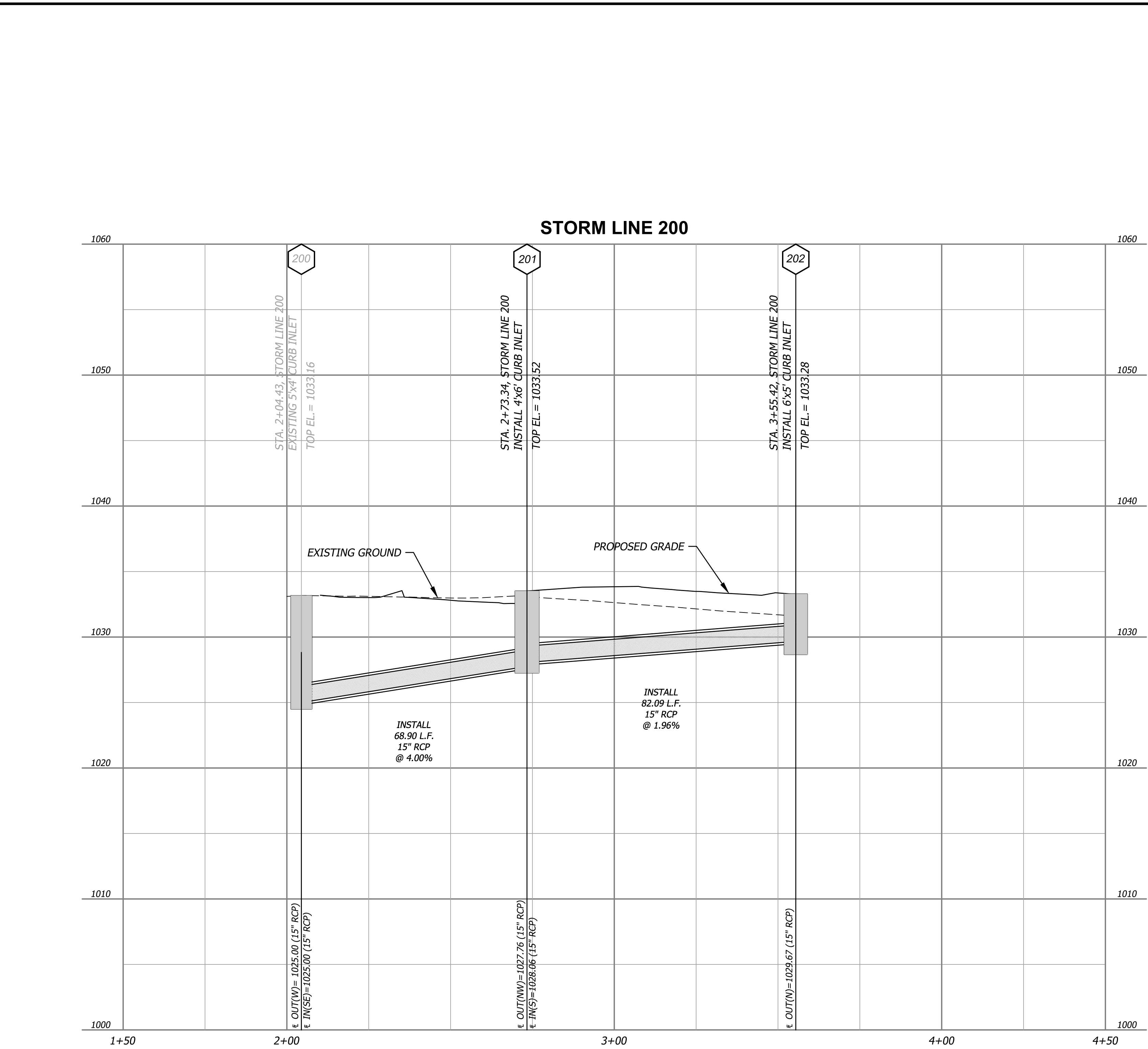
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 LEE'S SUMMIT, MO



PROJECT NUMBER	62910099		
PROJECT MANAGER	DESIGNED BY	CHECKED BY	
BRR	BRR		
PROFESSIONAL SEAL			



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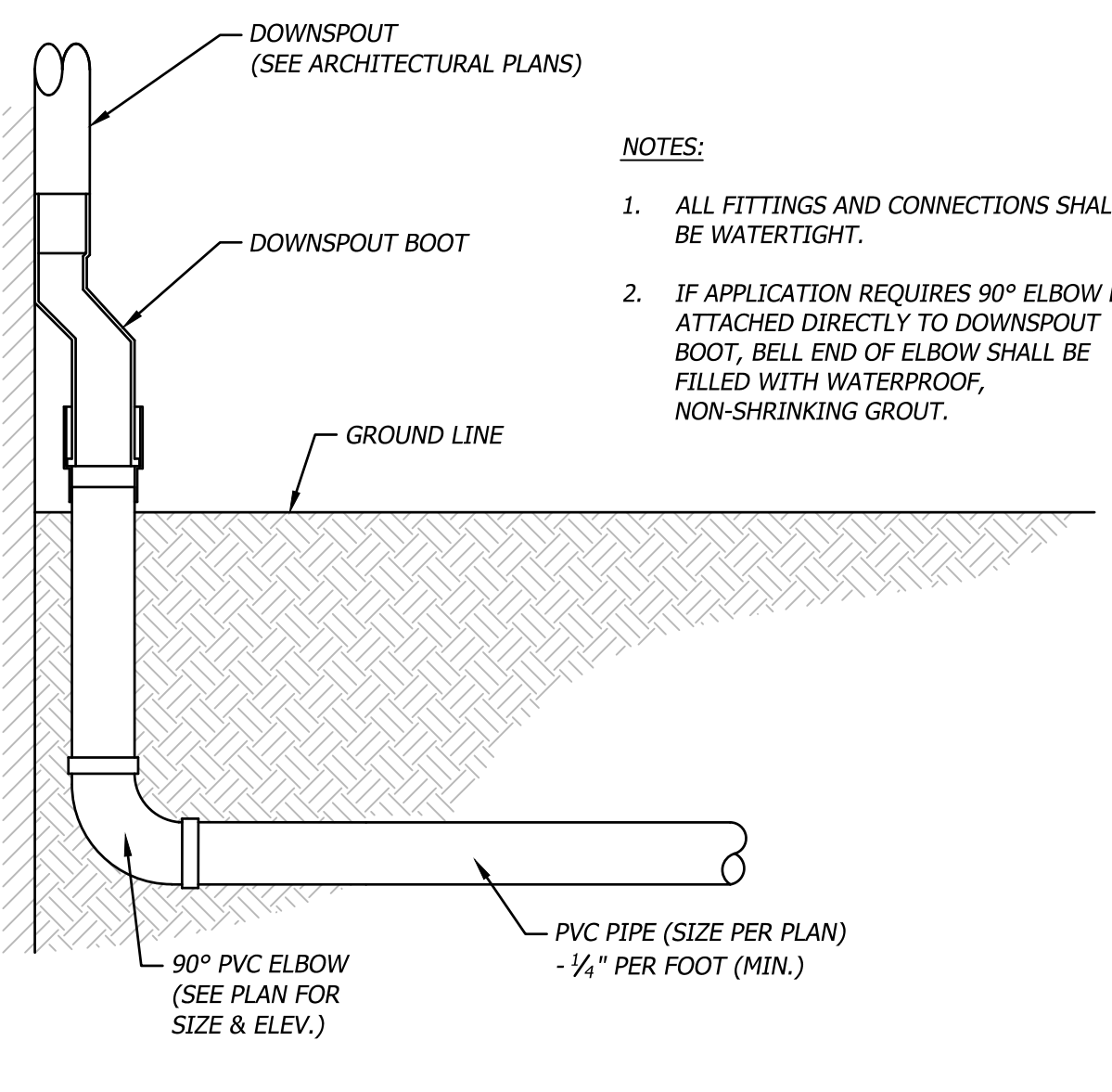
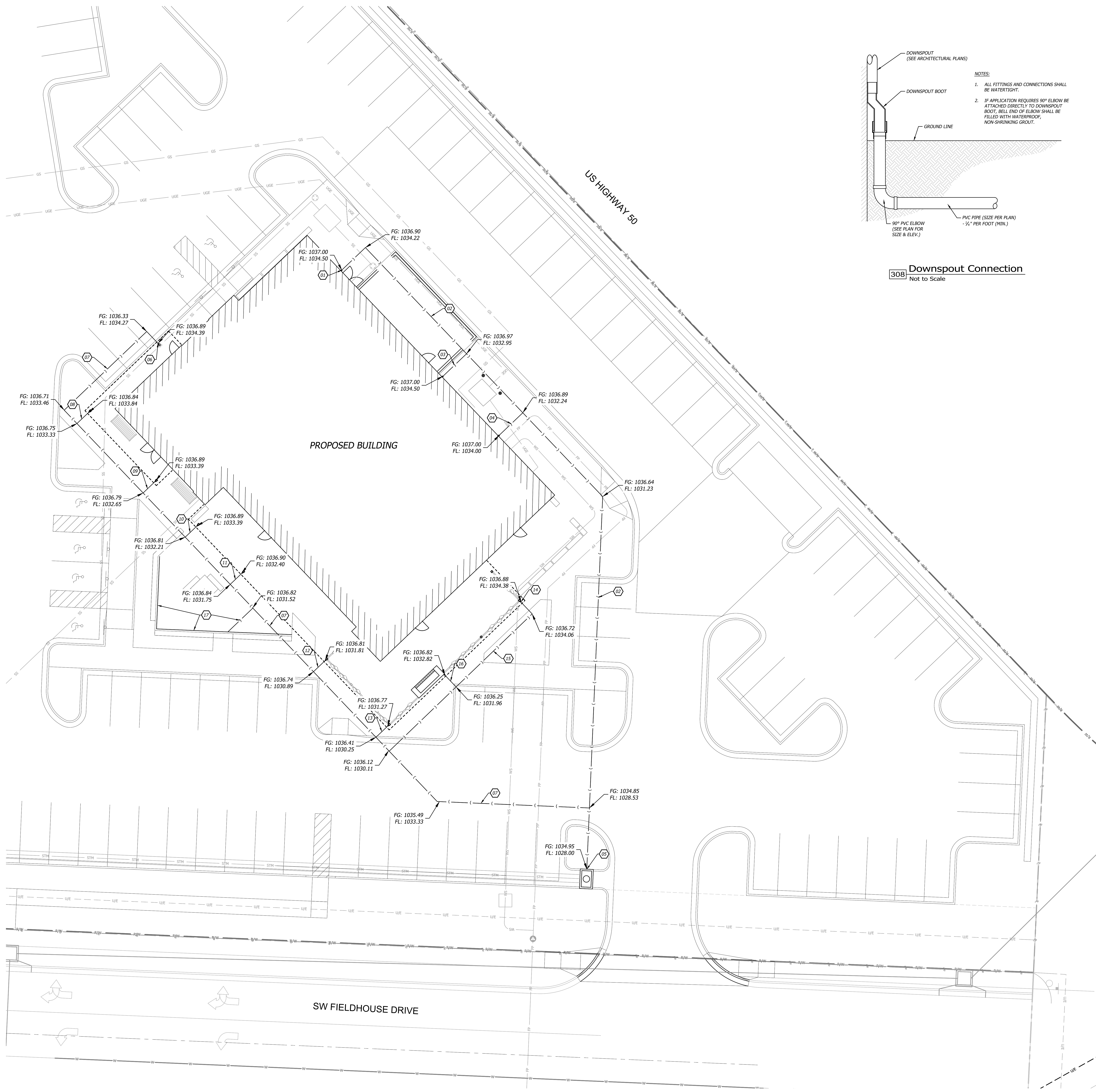
STORM LINE 200 & 300

SHEET NUMBER

**C701**

04/04/2025

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**308 Downspout Connection**  
Not to Scale

- NOTES:**
1. ALL FITTINGS AND CONNECTIONS SHALL BE WATER-TIGHT.
  2. IF APPLICATION REQUIRES 90° ELBOW BE ATTACHED DIRECTLY TO DOWNSPOUT BOOT. BELL END OF ELBOW SHALL BE FILLED WITH WATERPROOF, NON-SHRINKING GROUT.

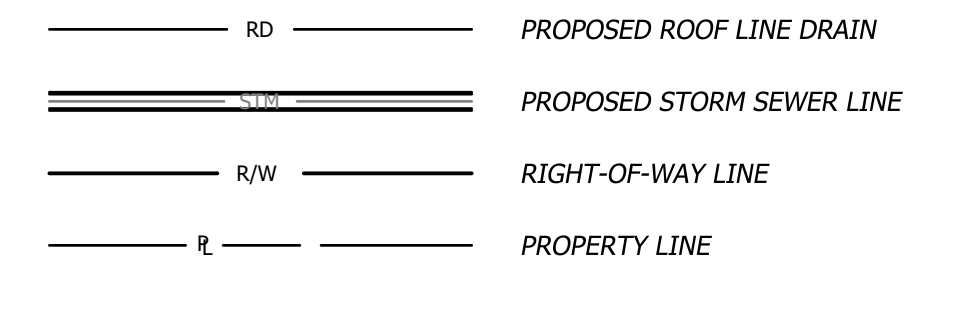
**GENERAL NOTES**

1. All lengths/slopes of roof drain lines are approximate. Contractor to obtain own quantities.
2. Contractor to ensure 6" minimum separation between roof drain and any utility crossing. Contractor to call civil engineer if any conflicts between utilities are found.

**ROOF DRAIN NOTES**

- 01 CONNECT 12" DOWNSPOUT PIPE UNDERGROUND TO BUILDING DOWNSPOUT;  
REFER TO DOWNSPOUT DETAIL 308 ON C702  
ε = 1034.5'
- 02 INSTALL 229.8 LF OF 12" PVC DRAIN PIPE @ 2.8%
- 03 INSTALL 10.0 LF OF 6" PVC DRAIN PIPE @ 15.5%
- 04 INSTALL 10.0 LF OF 6" PVC DRAIN PIPE @ 17.6%
- 05 CONNECT DOWNSPOUT DRAIN PIPE TO INLET @ FL 1028.0'
- 06 CONNECT 12" DOWNSPOUT PIPE UNDERGROUND TO CANOPY DOWNSPOUT;  
REFER TO DOWNSPOUT DETAIL 308 ON C702  
ε = 1034.39'
- 07 INSTALL 252.45 LF OF 12" PVC DRAIN PIPE @ 2.3%
- 08 INSTALL 5 LF OF 6" PVC DRAIN PIPE @ 10.2%
- 09 INSTALL 5 LF OF 6" PVC DRAIN PIPE @ 14.8%
- 10 INSTALL 5 LF OF 6" PVC DRAIN PIPE @ 14.8%
- 11 INSTALL 5 LF OF 6" PVC DRAIN PIPE @ 13.0%
- 12 INSTALL 5 LF OF 6" PVC DRAIN PIPE @ 18.4%
- 13 INSTALL 5 LF OF 6" PVC DRAIN PIPE @ 20.4%
- 14 CONNECT 6" DOWNSPOUT PIPE UNDERGROUND TO CANOPY DOWNSPOUT;  
REFER TO DOWNSPOUT DETAIL 308 ON C702  
ε = 1034.38'
- 15 INSTALL 65.78 LF OF 6" PVC DRAIN PIPE @ 6.5%
- 16 INSTALL 5 LF OF 6" PVC DRAIN PIPE @ 17.2%
- 17 4" PERFORATED HDPE UNDERDRAIN

**ROOF DRAIN LEGEND**



ARCHITECT OF RECORD

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CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE  
LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	DAWN BY
CHECKED BY	BRR
PROFESSIONAL SEAL	



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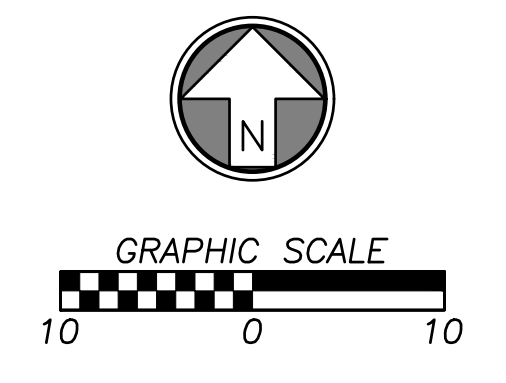
ISSUES AND REVISIONS			
NUMBER	DATE	ISSUES	ORIGINAL ISSUE

SHEET NAME

**DOWNSPOUT PIPE PLAN**

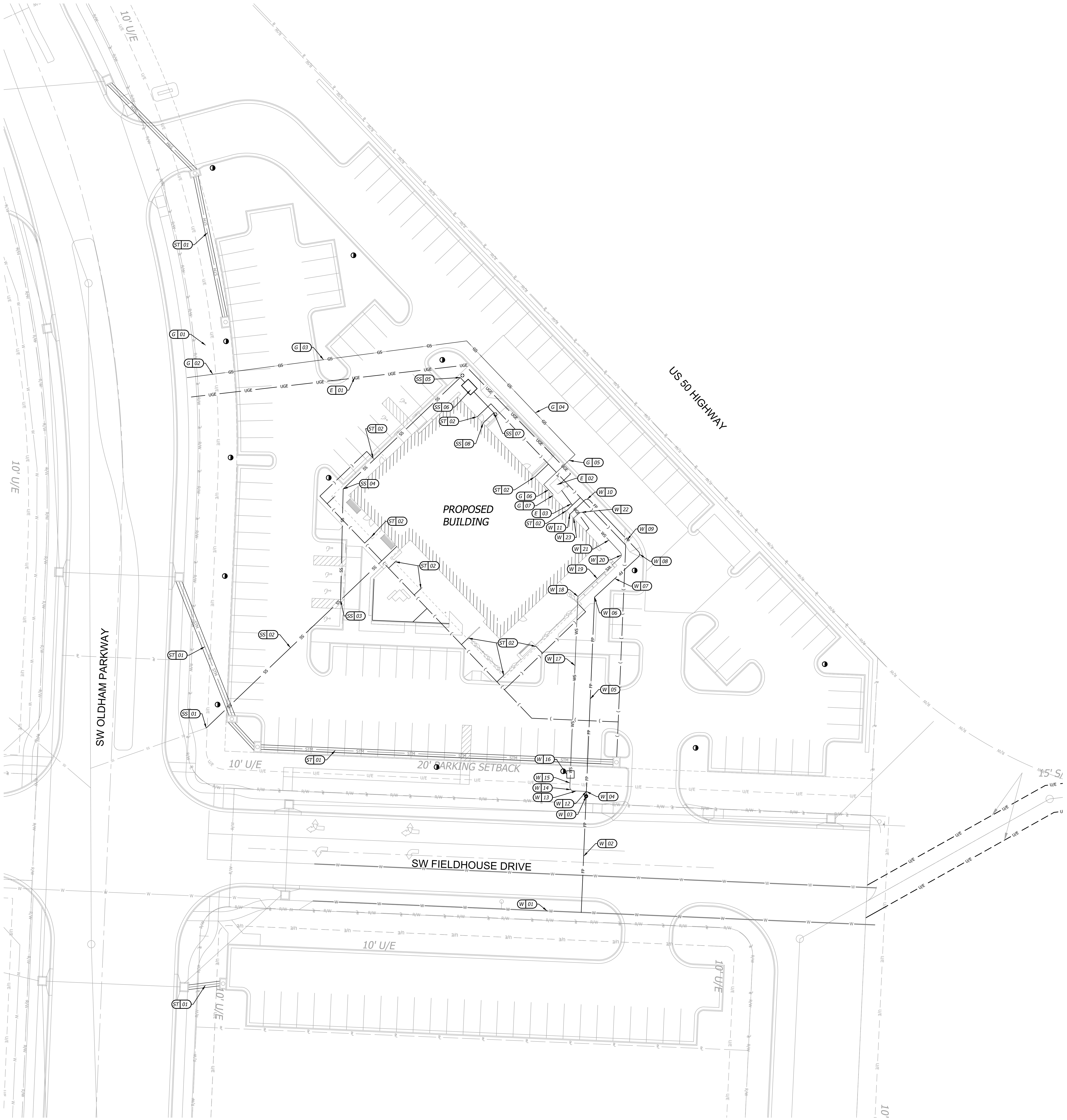
SHEET NUMBER

**C702**



04/04/2025





- C100 CONSTRUCTION NOTES**
- W - WATER SERVICE INFORMATION - LEE'S SUMMIT**
- 01 EXISTING 8" WATER MAIN LINE
  - 02 EXISTING WATER STUB
  - 03 CONNECT TO EXISTING WATER MAIN STUB
  - 04 INSTALL 6"x2" TEE FC. W.
  - 05 INSTALL 107.6 LF OF 6" FIRE PROTECTION LINE WITH MINIMUM DEPTH OF COVER 42".
  - 06 INSTALL 45" BEND.
  - 07 INSTALL 32.1 LF OF 6" FIRE PROTECTION LINE WITH MINIMUM DEPTH OF COVER 42".
  - 08 INSTALL ELBOW FITTING.
  - 09 INSTALL 38.2 LF OF 6" FIRE PROTECTION LINE WITH MINIMUM DEPTH OF COVER 42".
  - 10 INSTALL ELBOW FITTING.
  - 11 INSTALL 11 LF OF 6" FIRE PROTECTION LINE WITH MINIMUM DEPTH OF COVER 42" AND CONNECT TO BUILDING.
  - 12 CONNECT 2" DOMESTIC SERVICE LINE TO 6"x2" TEE FC. W.
  - 13 INSTALL 7 LF OF 2" DOMESTIC SERVICE LINE WITH MINIMUM 42" COVER.
  - 14 INSTALL ELBOW FITTING.
  - 15 INSTALL 4.8 LF OF 2" DOMESTIC SERVICE LINE WITH MINIMUM 42" COVER.
  - 16 INSTALL WATER METER.
  - 17 INSTALL 94 LF OF 2" DOMESTIC SERVICE LINE WITH MINIMUM 42" COVER.
  - 18 INSTALL 45" BEND.
  - 19 INSTALL 31 LF OF 2" DOMESTIC SERVICE LINE WITH MINIMUM 42" COVER.
  - 20 INSTALL ELBOW FITTING.
  - 21 INSTALL 28.7 LF OF 2" DOMESTIC SERVICE LINE WITH MINIMUM 42" COVER.
  - 22 INSTALL ELBOW FITTING.
  - 23 INSTALL 4 LF OF 2" DOMESTIC SERVICE LINE WITH MINIMUM 42" COVER AND CONNECT TO BUILDING.

- E - ELECTRIC SERVICE INFORMATION - EVERGY**
- CONTRACTOR TO CONTACT EVERGY FOR FINAL PLANS OF MASTER DEVELOPMENT FOR CONNECTION SPOT.
- 01 EVERGY TO INSTALL PRIMARY UNDERGROUND ELECTRIC SERVICE FROM EXISTING ELECTRIC STRUCTURE. CONTRACTOR TO INSTALL CONDUIT.
  - 02 PROPOSED TRANSFORMER PAD.
  - 03 CONTRACTOR TO INSTALL SECONDARY UNDERGROUND ELECTRIC SERVICE LINE FROM PROPOSED TRANSFORMER TO BUILDING; REFER TO ELECTRICAL PLAN.

- G - GAS SERVICE INFORMATION - SPIRE**
- CONTRACTOR TO CONTACT SPIRE FOR FINAL PLANS OF MASTER DEVELOPMENT CONNECTION SPOT.
- 01 EXISTING 4" GAS MAIN.
  - 02 TAP EXISTING GAS MAIN FOR SERVICE LINE; COORDINATE W/ SPIRE.
  - 03 INSTALL 152 LF GAS SERVICE LINE.
  - 04 INSTALL 85 LF GAS SERVICE LINE.
  - 05 INSTALL 23 LF GAS SERVICE LINE.
  - 06 INSTALL 7 LF GAS SERVICE LINE.
  - 07 GAS METER CONNECTION TO BLDG.; REFER TO PLUMBING PLAN.

- ST - STORM SEWER INFORMATION - CITY OF LEE'S SUMMIT**
- 01 STORM SEWER LINE; REFER TO SHEET C700-C701
  - 02 ROOF DRAINS; REFER TO SHEET C702

- SS - SANITARY SEWER INFORMATION**
- 01 CONNECT TO EXISTING SANITARY STUB.  
FL = 1019.5'
  - 02 INSTALL 142 LF OF SANITARY SERVICE LINE @ 9.52% AND CONNECT INTO BUILDING  
FL = 1033.0'
  - 03 INSTALL WYE  
FL = 1025.04'
  - 04 INSTALL 60 LF OF SANITARY SERVICE LINE @ 2.18% AND INSTALL WYE  
FL = 1030.34'
  - 05 INSTALL 87 LF OF SANITARY SERVICE LINE @ 2.18%  
FL = 1032.25'
  - 06 INSTALL HDPE GREASE INTERCEPTOR; REFER TO MEP PLANS
  - 07 INSTALL WYE AND CLEAN OUT  
FL = 1032.82'
  - 08 INSTALL 8 LF OF SANITARY SERVICE LINE @ 2.18% AND CONNECT TO BUILDING  
FL = 1033.0'

- UTILITY NOTES**
1. Contractor shall refer to all specifications, guidelines, and installation drawings from Waterone, Spire, Spectrum/AT&T, JCIW, City of Lee's Summit Storm, and Evergy for the installation of all service lines.
  2. The information shown on these plans concerning the type and location of underground utilities is not guaranteed to be accurate or all inclusive. The contractor is responsible for contacting all utility companies for field location of all underground utility lines prior to any excavation and for making his own verification as to type and location of underground utilities as may be necessary to avoid damage thereto.
  3. Contractor to ensure 6" minimum separation between utilities at crossings. Contractor to call engineer if any conflicts between utilities are found.
  4. Fire Line Notes:
    - 4.1. All private fire lines shall be installed in accordance with NFPA 24, and other applicable codes and standards.
    - 4.2. Contact the Fire Department to schedule inspections prior to private fire lines being backfilled.
    - 4.3. Contact the Fire Department to witness scheduled hydrostatic tests and flushes of private fire lines.
  5. Stub all connections to within 5' of the building to provide connection into the building by mechanical/plumbing contractor.
  6. Contractor to ensure min. 18" vertical separation between utilities at crossing. Contractor to call engineer if any conflicts between utilities are found.

ARCHITECT OF RECORD

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CONSULTANT

**BHC**

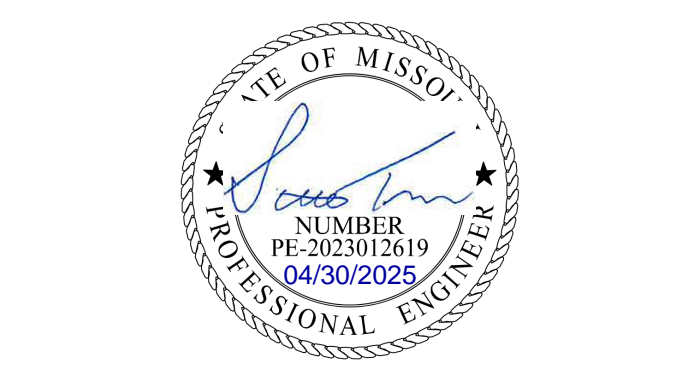
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CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE  
LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	DAWN BY
DESIGNED BY	BRR
CHECKED BY	BRR
PROFESSIONAL SEAL	



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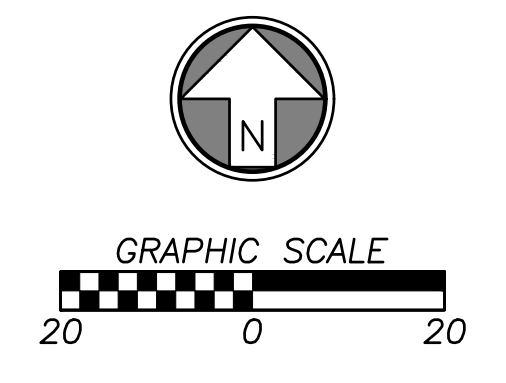
**ISSUES AND REVISIONS**

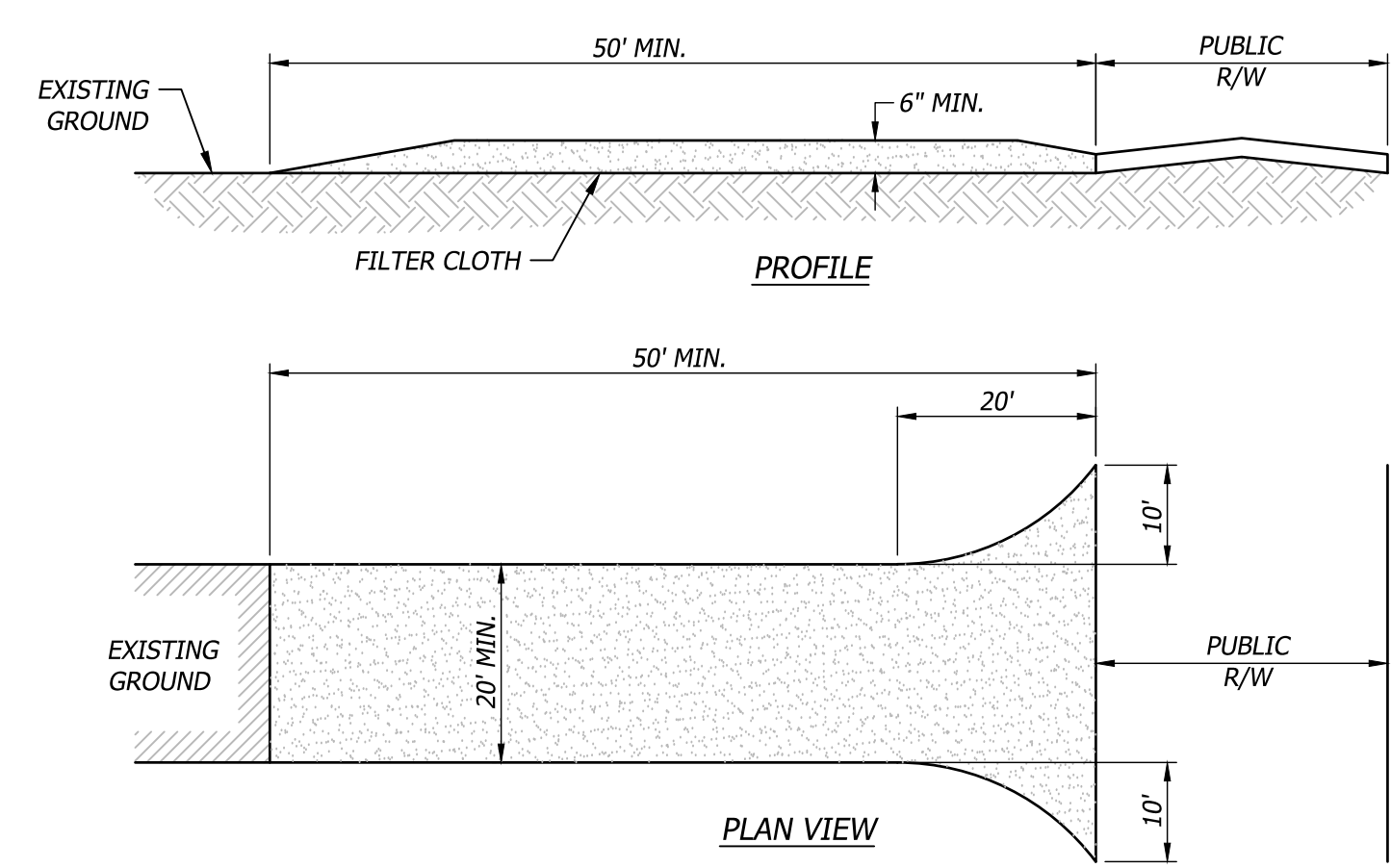
NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME

UTILITY PLAN  
SHEET NUMBER

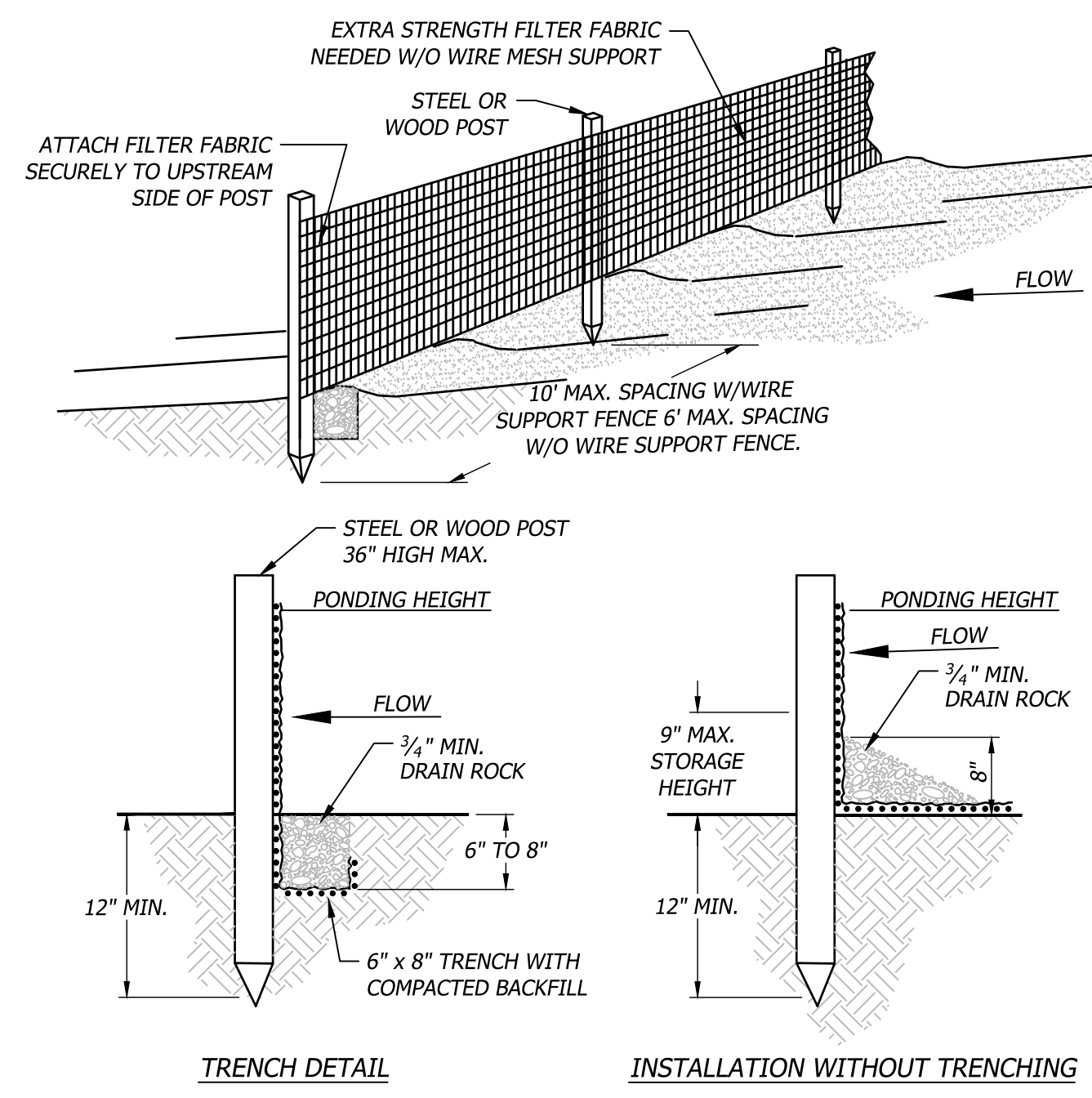
**C800**





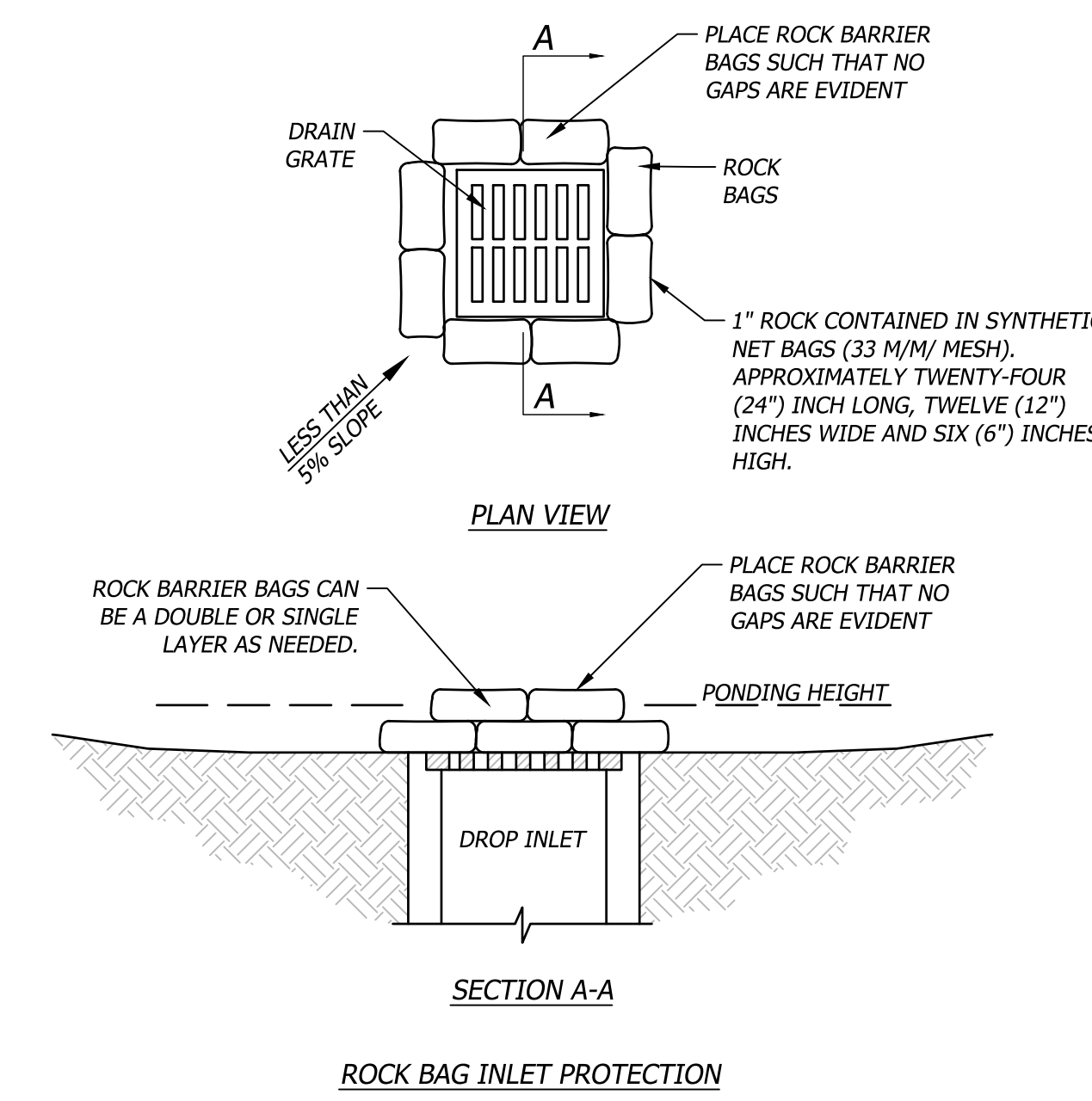
- CONSTRUCTION SPECIFICATIONS:**
- STONE SIZE - USE (2) INCH STONE, OR RECLAIMED OR RECYCLED EQUIVALENT.
  - LENGTH - AS REQUIRED, BUT NOT LESS THAN (50) FEET.
  - THICKNESS - NOT LESS THAN SIX (6) INCHES.
  - WIDTH - TWENTY (20) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
  - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
  - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  - PERIODIC INSPECTION AS NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**600 Temporary Construction Entrance**  
Not to Scale



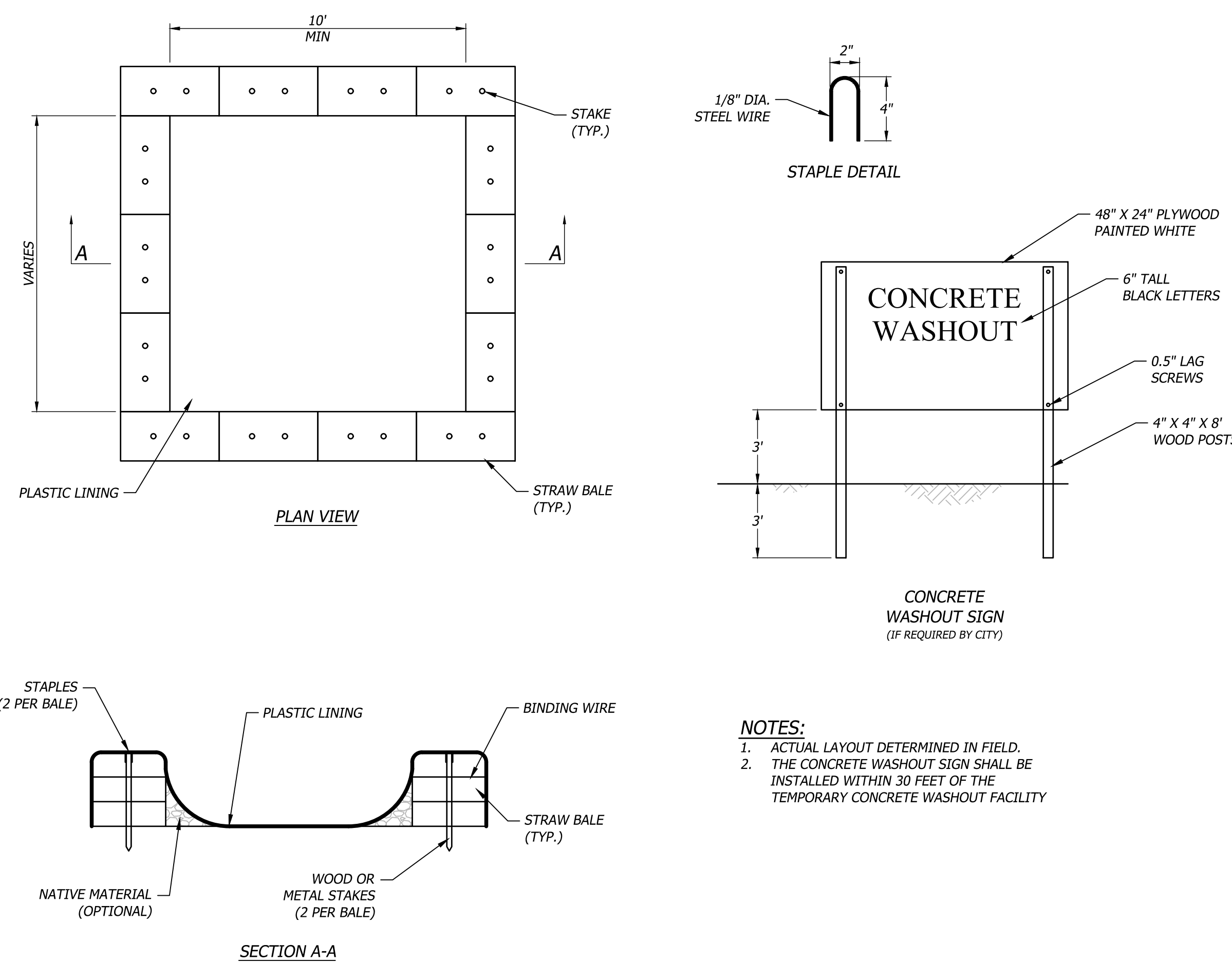
- NOTES:**
- MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
  - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
  - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9\"/>
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

**601 Filter Fabric Silt Fence**  
Not to Scale



- CATCH BASIN**
- PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
  - BAGS OF MOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
  - LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SILLWAY, OR IN THE CENTER IF POUNDING IS NEEDED ON BOTH SIDES.
  - INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

**603 Storm Inlet Protection**  
Not to Scale



- NOTES:**
- ACTUAL LAYOUT DETERMINED IN FIELD.
  - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

**604 Concrete Washout**  
Not to Scale

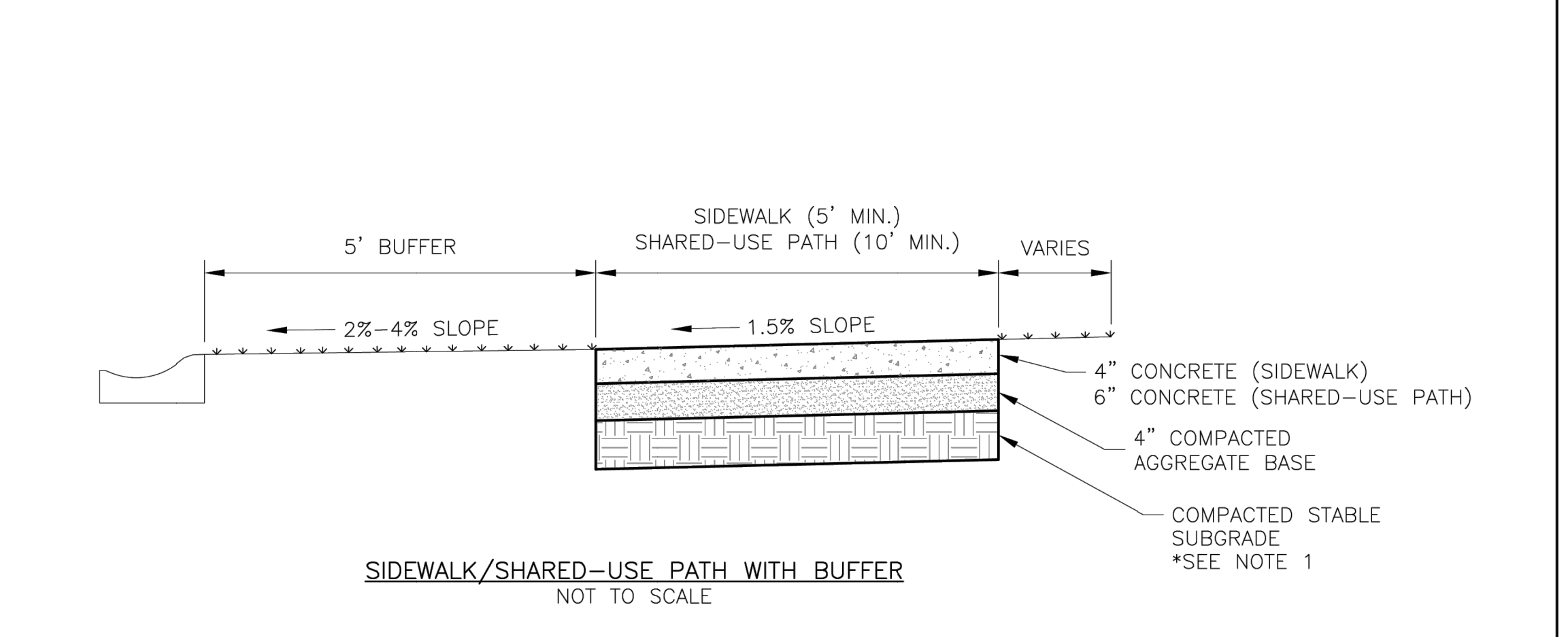
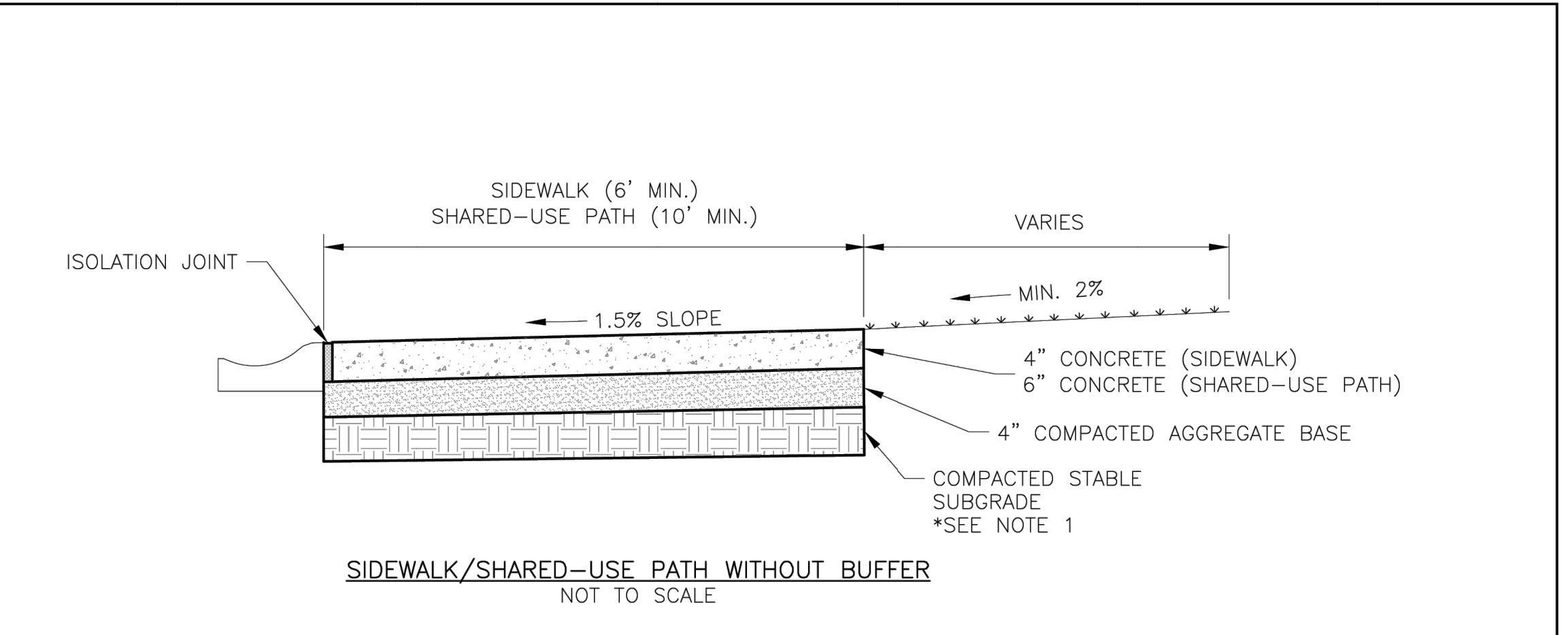
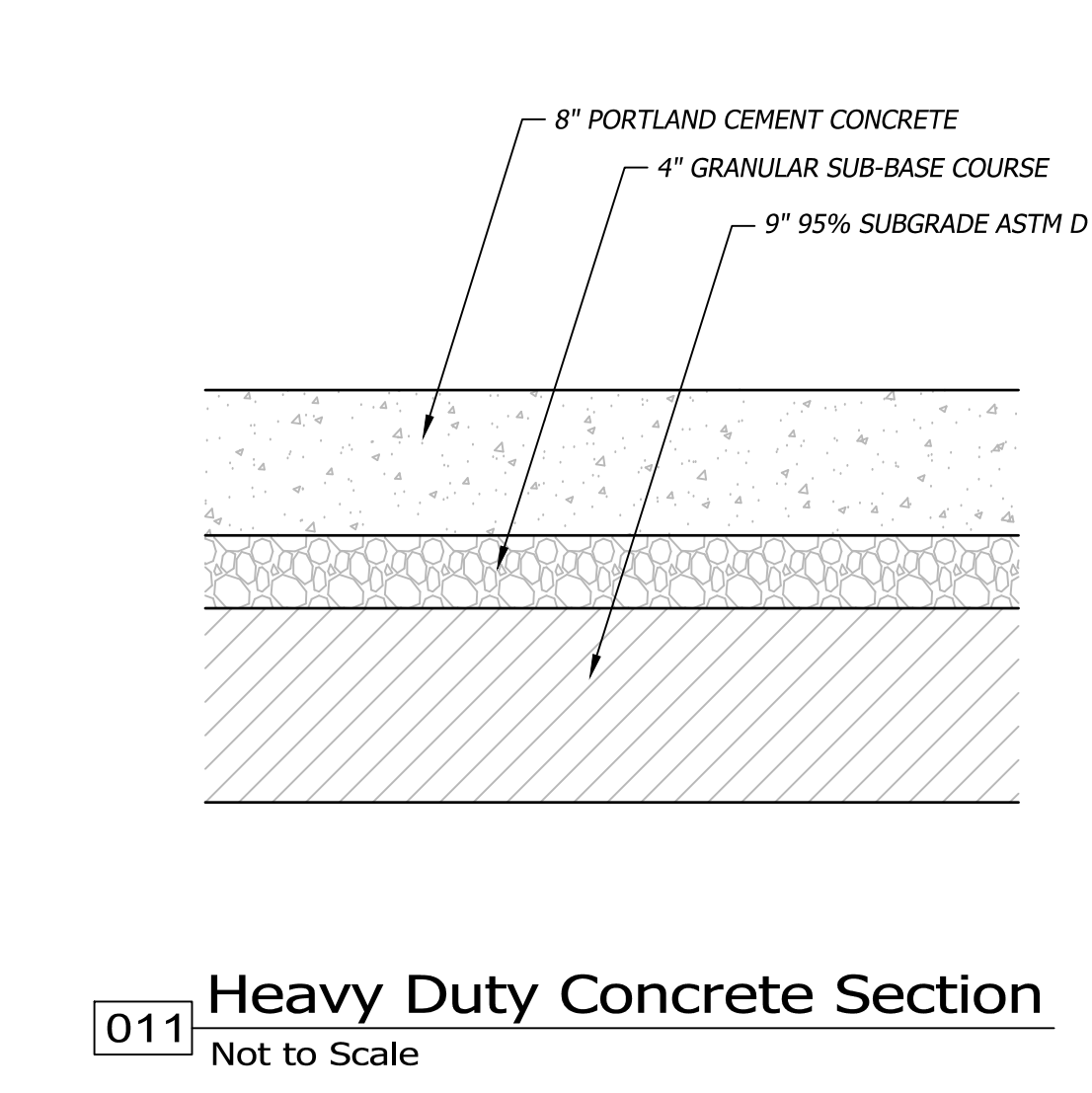
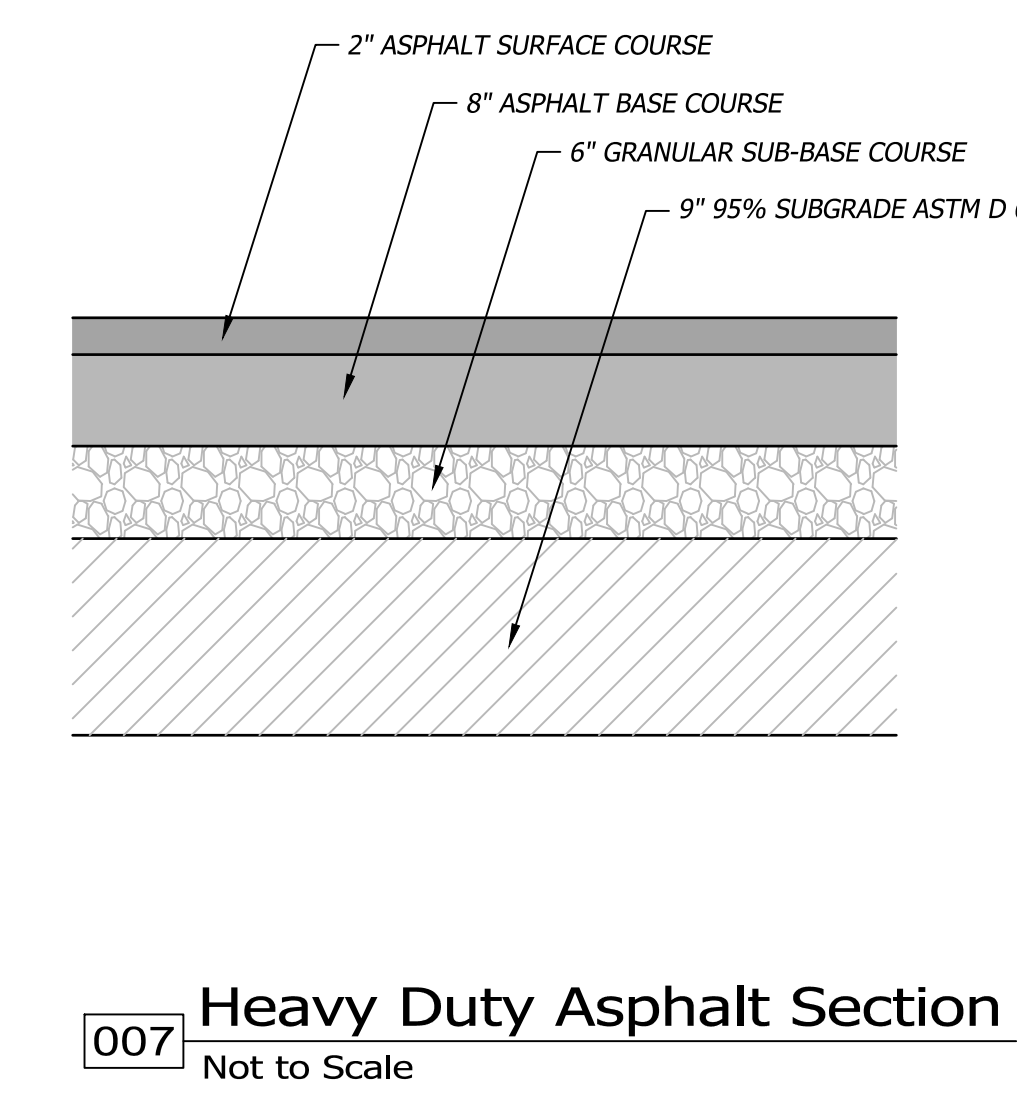
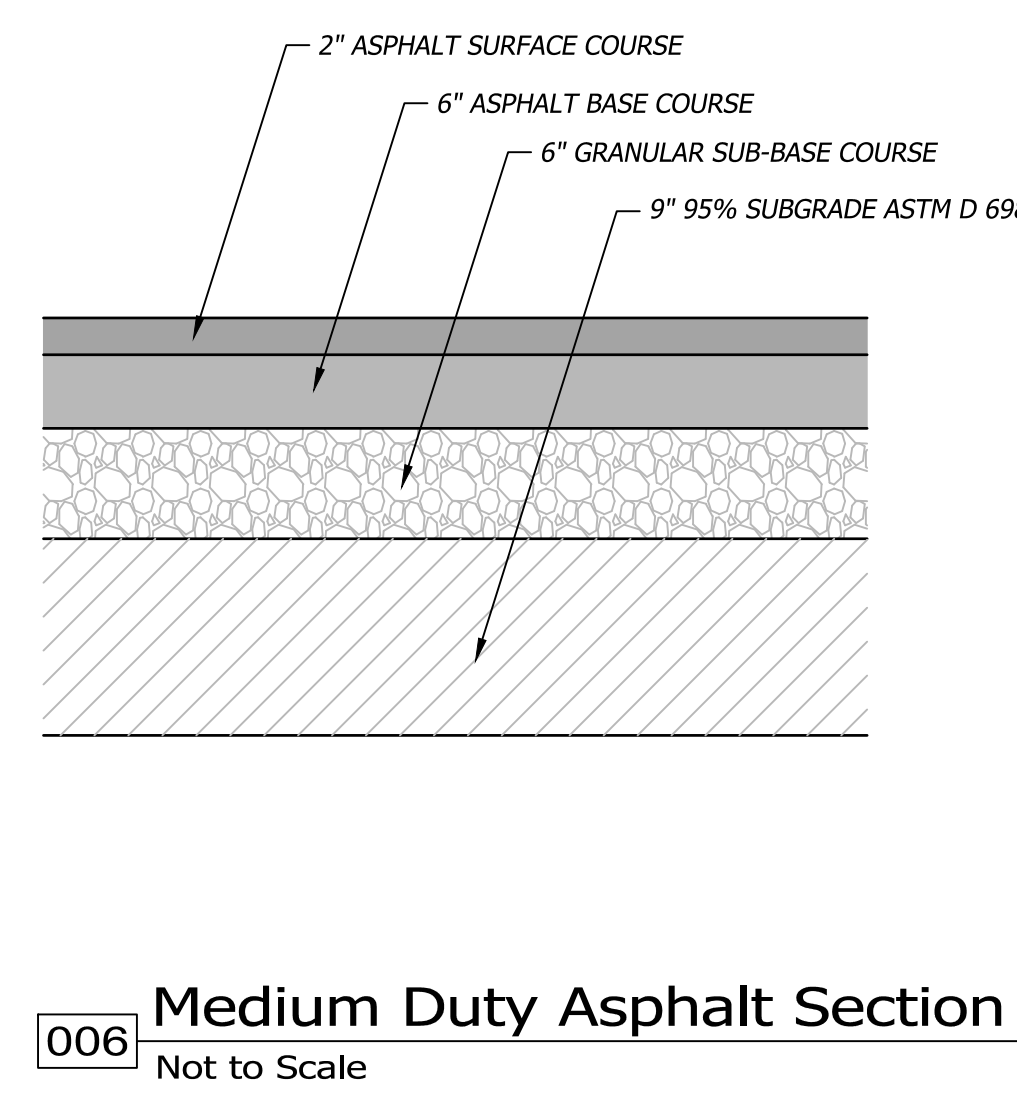
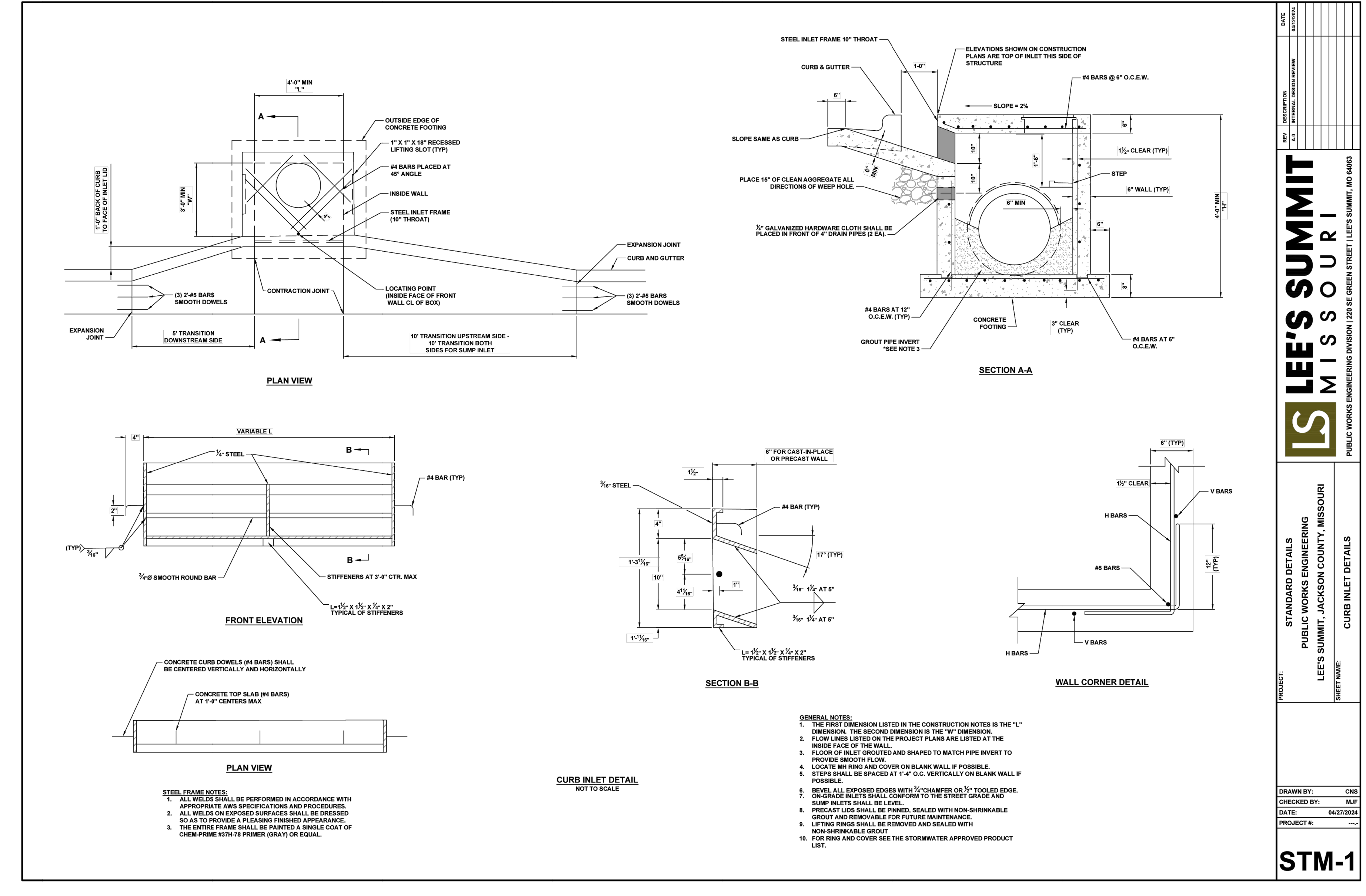
PROJECT NUMBER	62910099
PROJECT MANAGER	DAWN BY
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**ISSUES AND REVISIONS**

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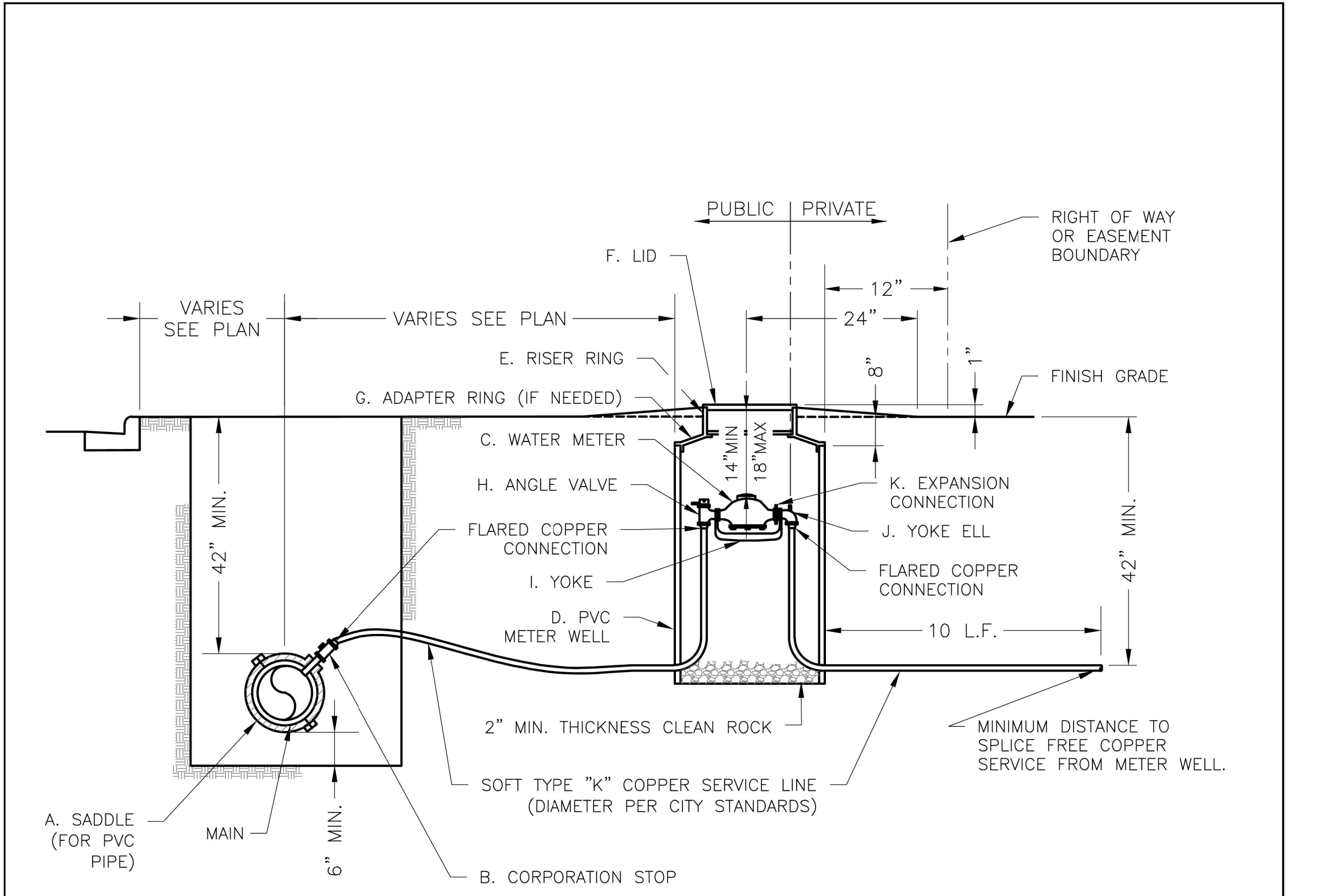
- GENERAL NOTES:
- SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
  - 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
  - KCMBS 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS.
  - ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
  - AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
  - AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
  - SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
  - SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
  - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

**LS LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

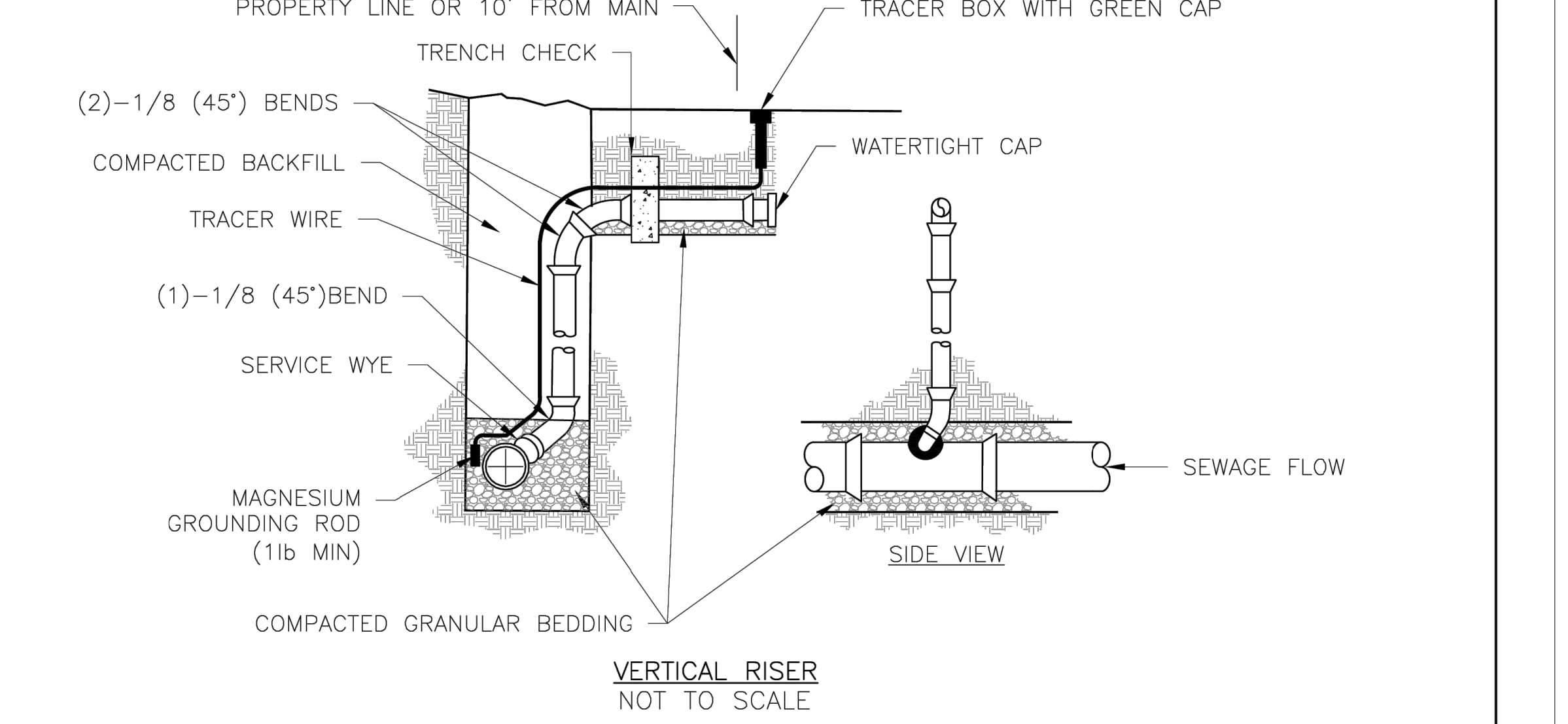
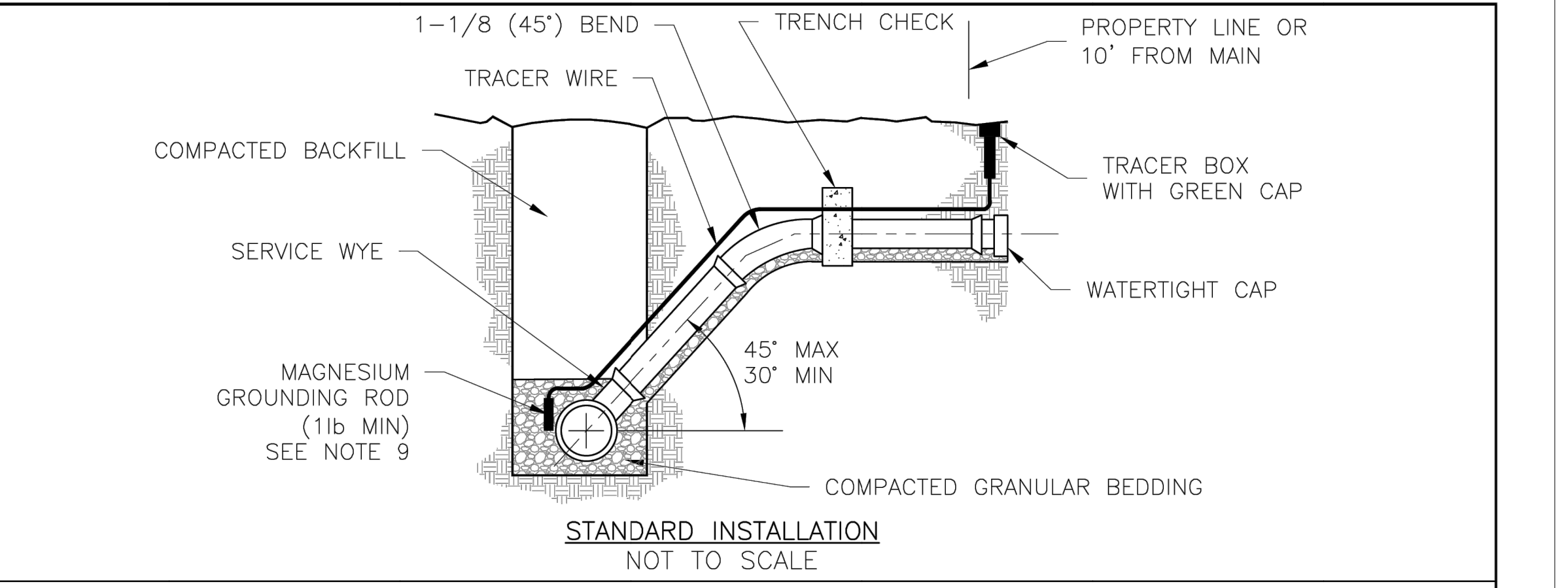
**SIDEWALK/SHARED-USE PATH DETAIL**

Date: 08/2023  
 Drawn By: MJF  
 Checked By: DJ

**GEN-2**



- NOTES:
- METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
  - IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
  - CITY TO FURNISH ITEMS A-K.
  - NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
  - 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
  - EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
  - NO SPLICES ALLOWED BETWEEN METER AND MAIN.
  - SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
  - LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
  - CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"



- NOTES:
- ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHICHEVER IS GREATER. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
  - IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
  - TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
  - SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
  - TRACER WIRE SHALL BE INSTALLED PER SPECIFICATION SECTION 3500. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
  - FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
  - TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
  - THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH LOCKING SPLICE CONNECTOR MANUFACTURED WITH A WATERPROOF DIELECTRIC SEALANT.

**LS LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64663

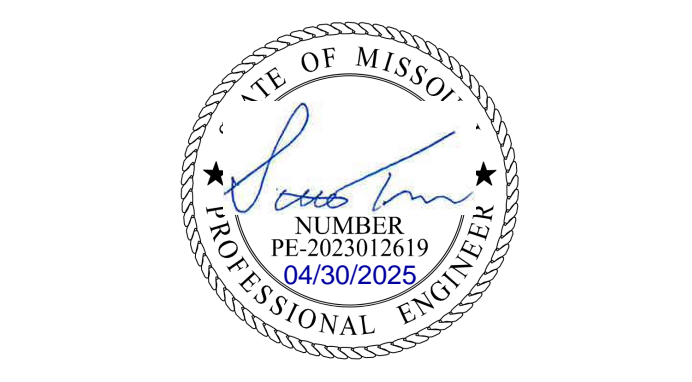
**SANITARY SEWER STUB DETAIL**

Date: 08/2023  
 Drawn By: MJF  
 Checked By: AB

**SAN-1**

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	BRR
DESIGNER	BRR
CHECKED BY	BRR
PROFESSIONAL SEAL	



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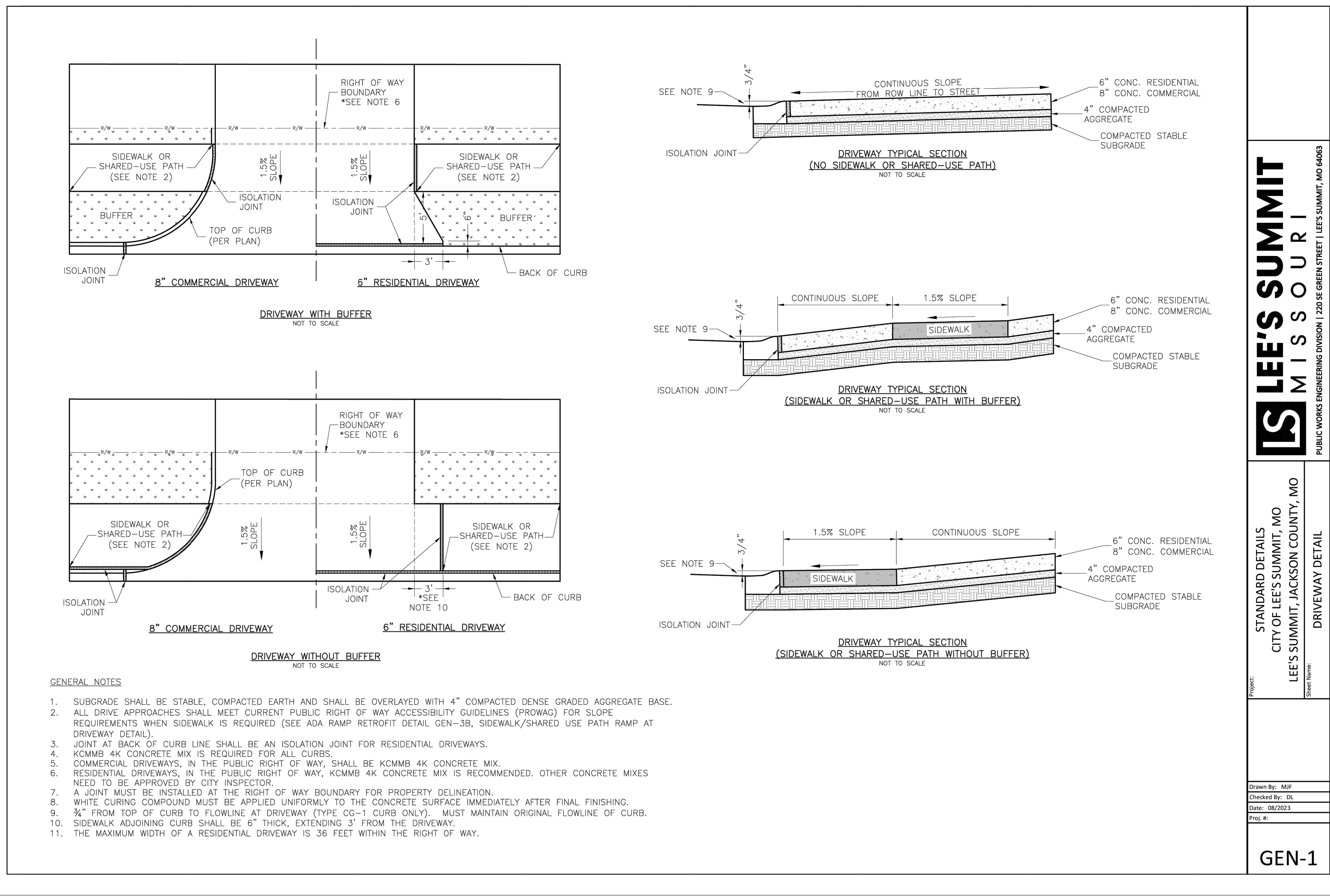
ISSUES AND REVISIONS

NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME

**CONSTRUCTION DETAILS**

SHEET NUMBER



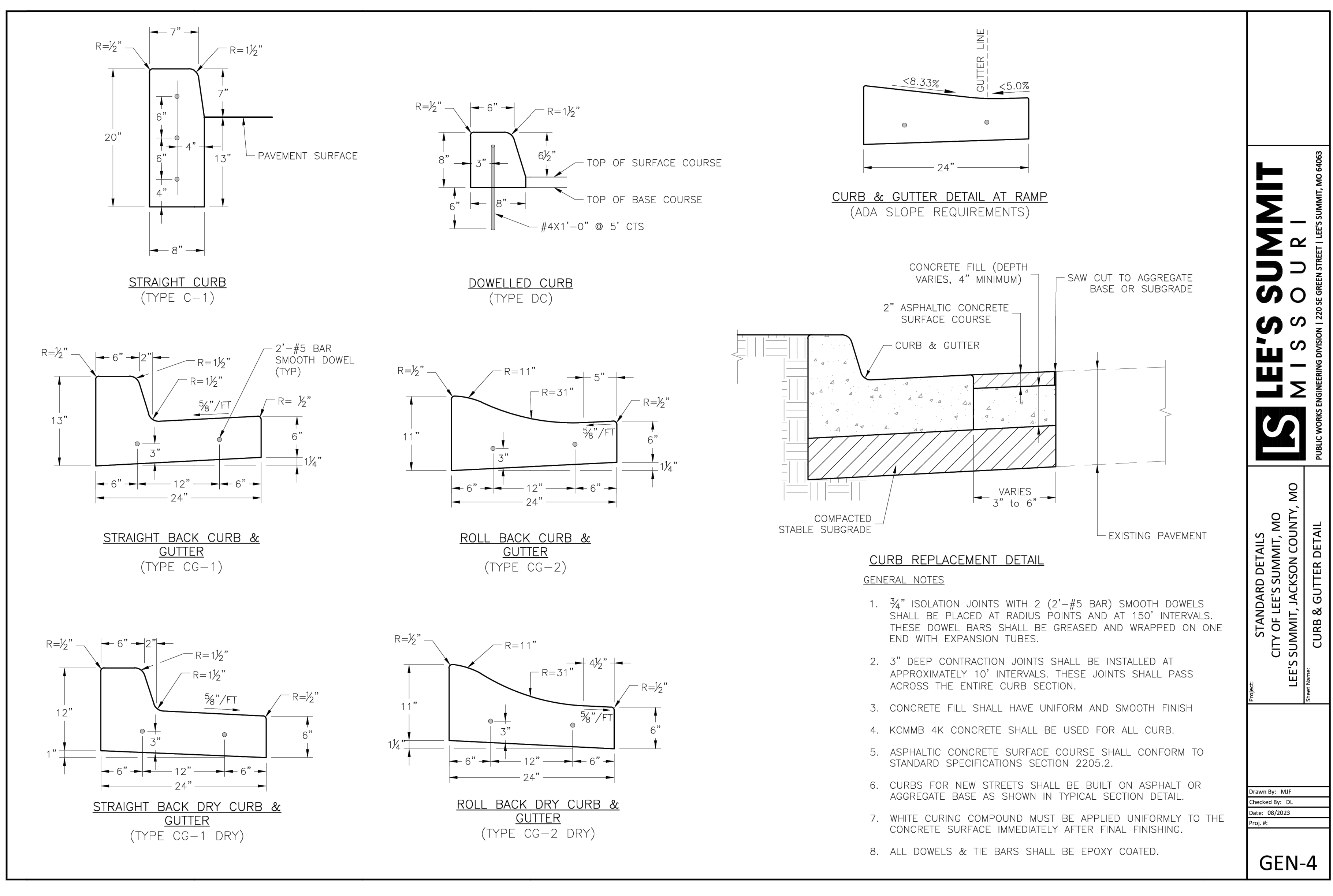
**LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 1225 S. GREEN STREET | LEE'S SUMMIT, MO 64080

STANDARD DETAILS  
 CITY OF LEE'S SUMMIT, MO  
 LEE'S SUMMIT, JACKSON COUNTY, MO

DRIVEWAY DETAIL

Drawn By: MJP  
 Checked By: BRR  
 Date: 08/20/23  
 File #

GEN-1



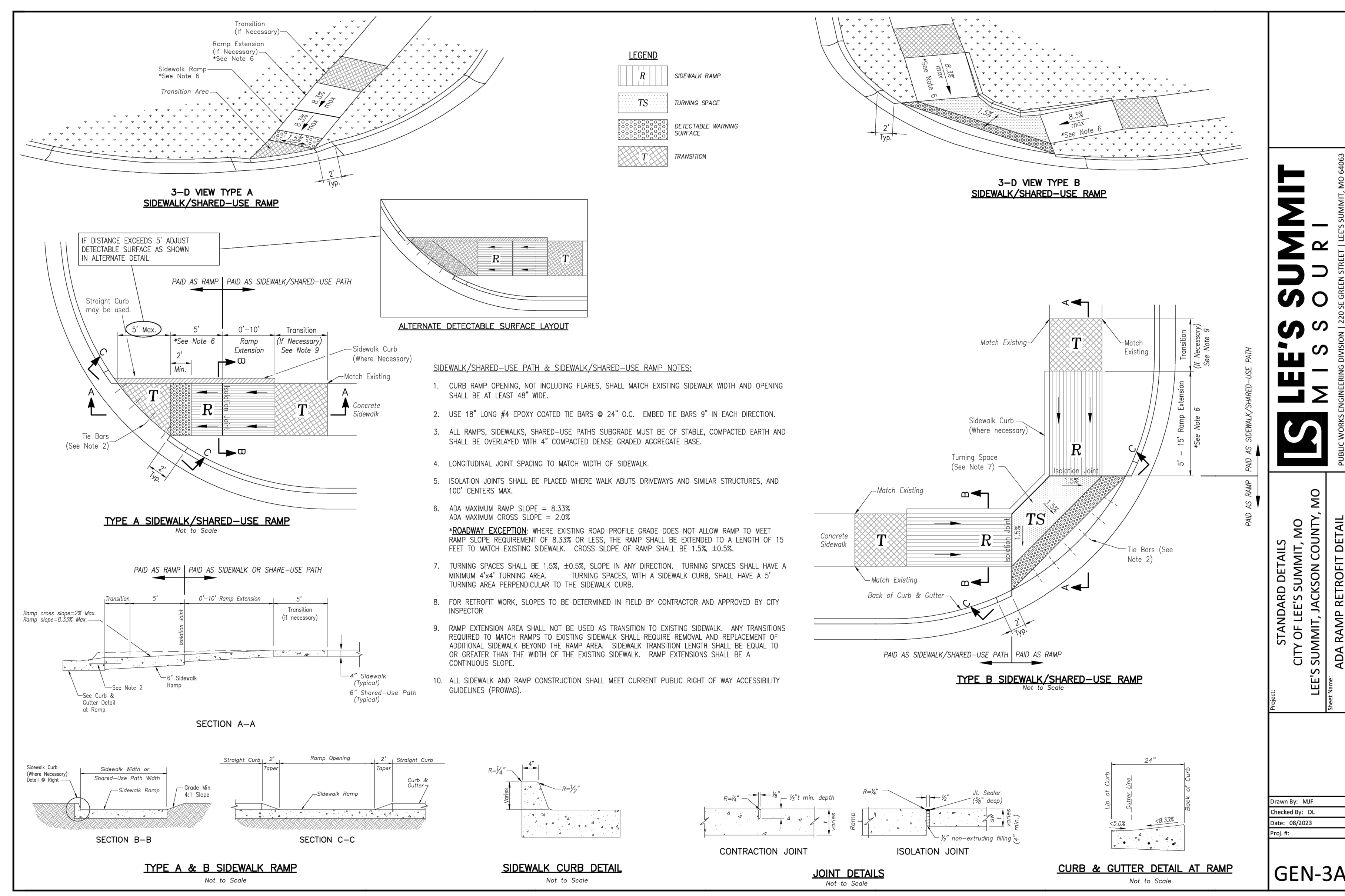
**LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 1225 S. GREEN STREET | LEE'S SUMMIT, MO 64080

STANDARD DETAILS  
 CITY OF LEE'S SUMMIT, MO  
 LEE'S SUMMIT, JACKSON COUNTY, MO

CURB & GUTTER DETAIL

Drawn By: MJP  
 Checked By: BRR  
 Date: 08/20/23  
 File #

GEN-4



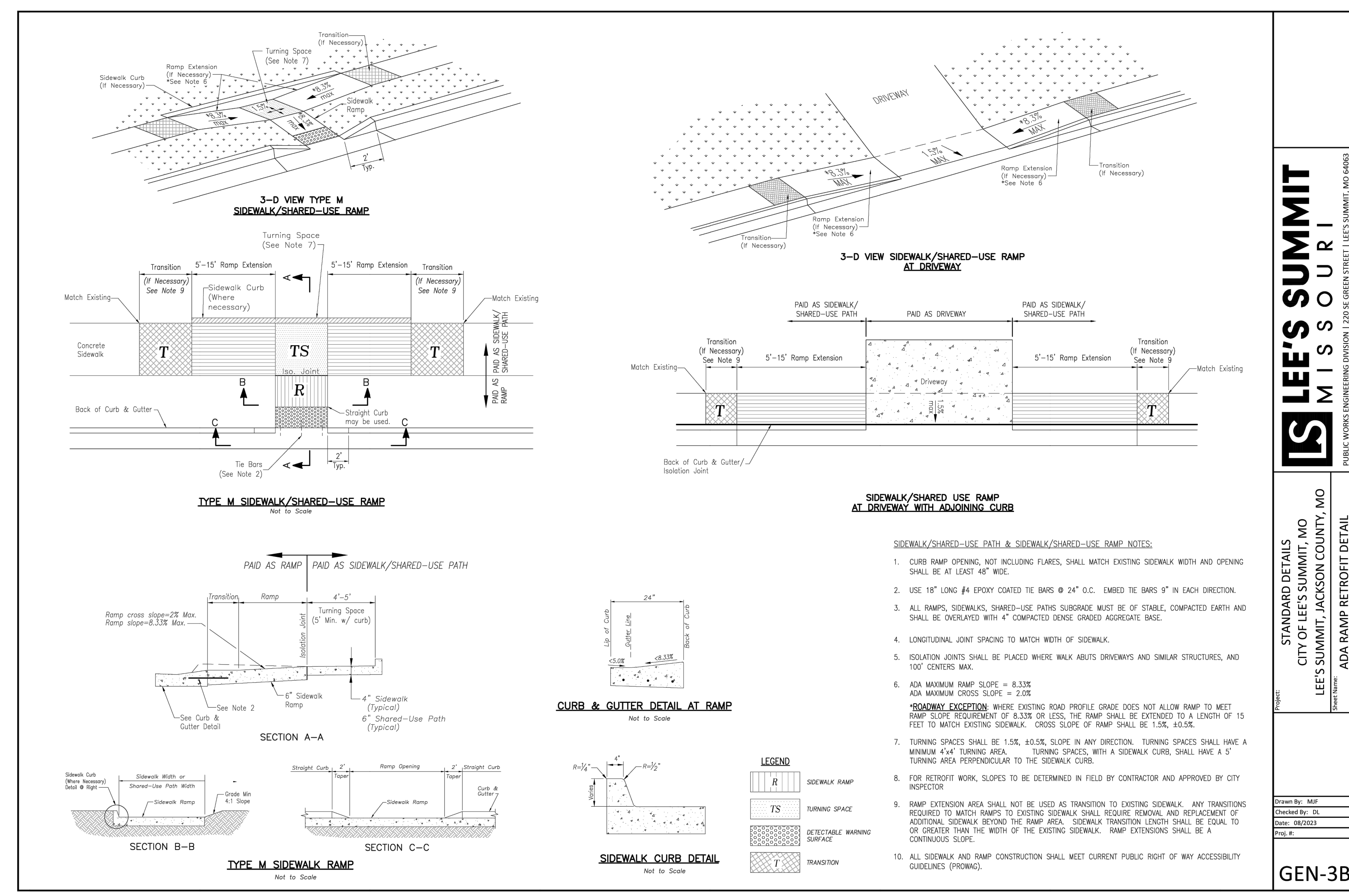
**LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 1225 S. GREEN STREET | LEE'S SUMMIT, MO 64080

STANDARD DETAILS  
 CITY OF LEE'S SUMMIT, MO  
 LEE'S SUMMIT, JACKSON COUNTY, MO

ADA RAMP RETROFIT DETAIL

Drawn By: MJP  
 Checked By: BRR  
 Date: 08/20/23  
 File #

GEN-3A



**LEE'S SUMMIT MISSOURI**  
 PUBLIC WORKS ENGINEERING DIVISION | 1225 S. GREEN STREET | LEE'S SUMMIT, MO 64080

STANDARD DETAILS  
 CITY OF LEE'S SUMMIT, MO  
 LEE'S SUMMIT, JACKSON COUNTY, MO

ADA RAMP RETROFIT DETAIL

Drawn By: MJP  
 Checked By: BRR  
 Date: 08/20/23  
 File #

GEN-3B

PROJECT NUMBER: 62910099

PROJECT MANAGER	DESIGNED BY	CHECKED BY
BRR	BRR	BRR

PROFESSIONAL SEAL



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**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1	ISSUES	ORIGINAL ISSUE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE  
 LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	CLARENCE
CHECKED BY	BRR
PROFESSIONAL SEAL	



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ISSUES AND REVISIONS			
NUMBER	DATE	ISSUES	ORIGINAL ISSUE

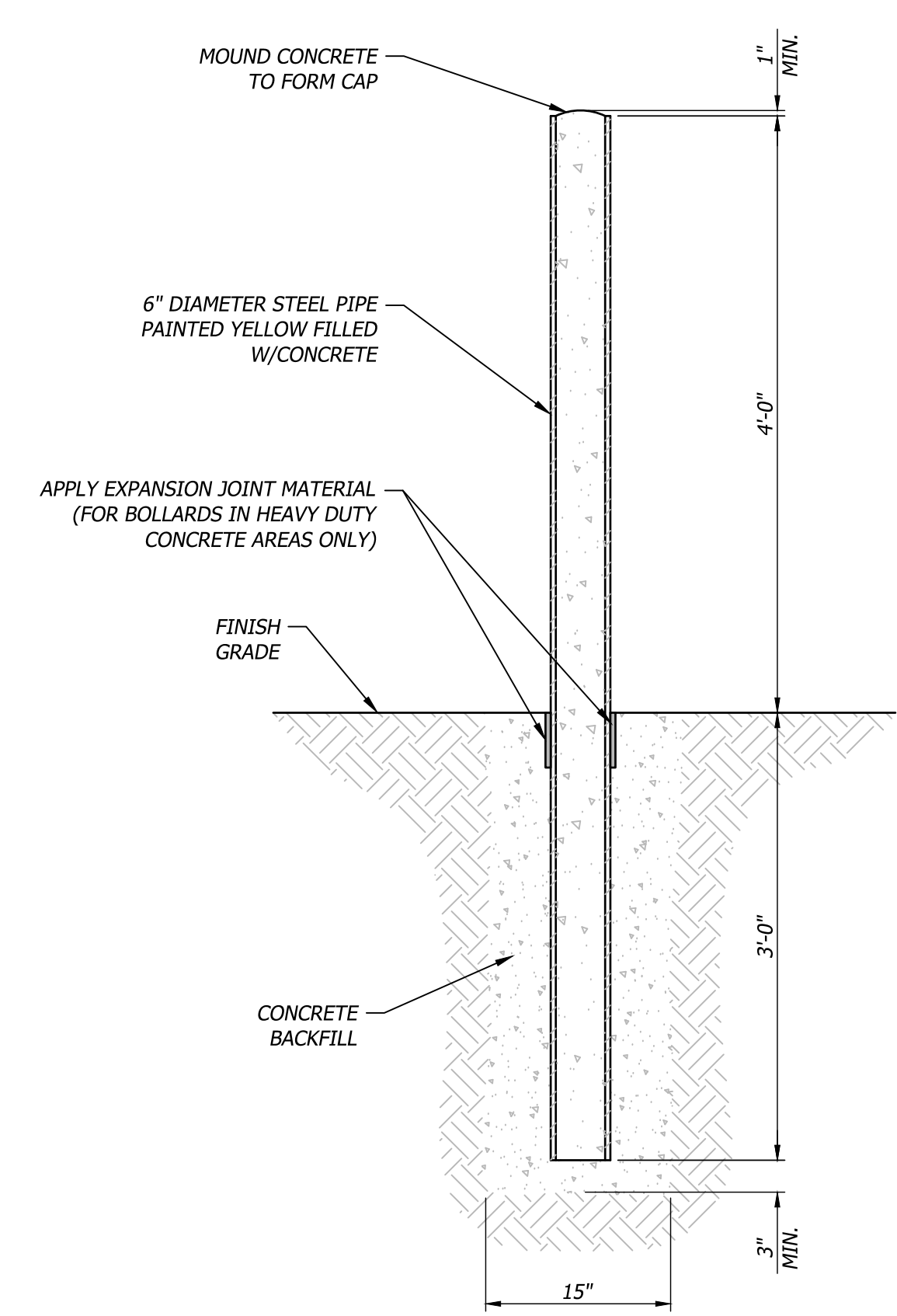
SHEET NAME

**CONSTRUCTION DETAILS**

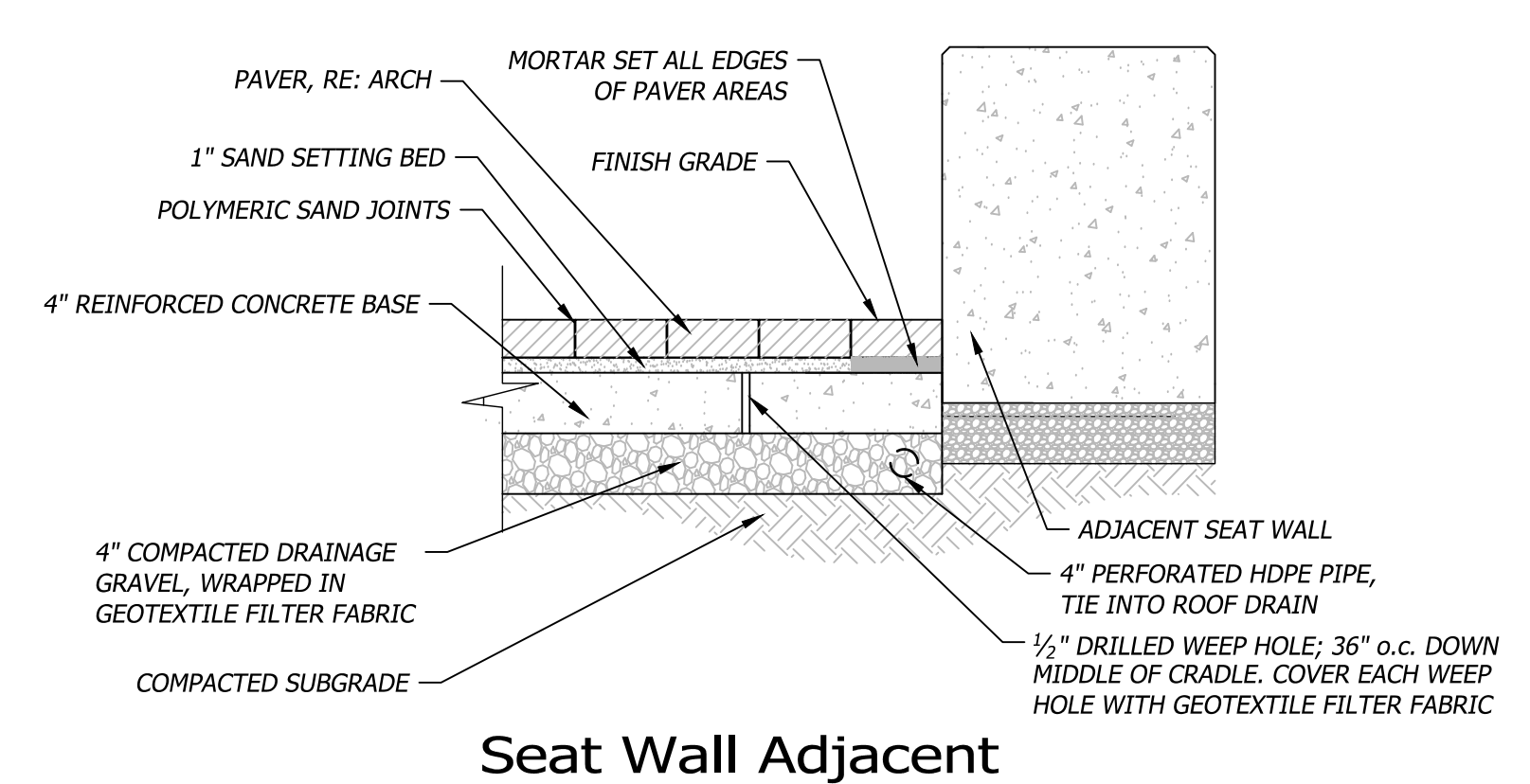
SHEET NUMBER

**C903**

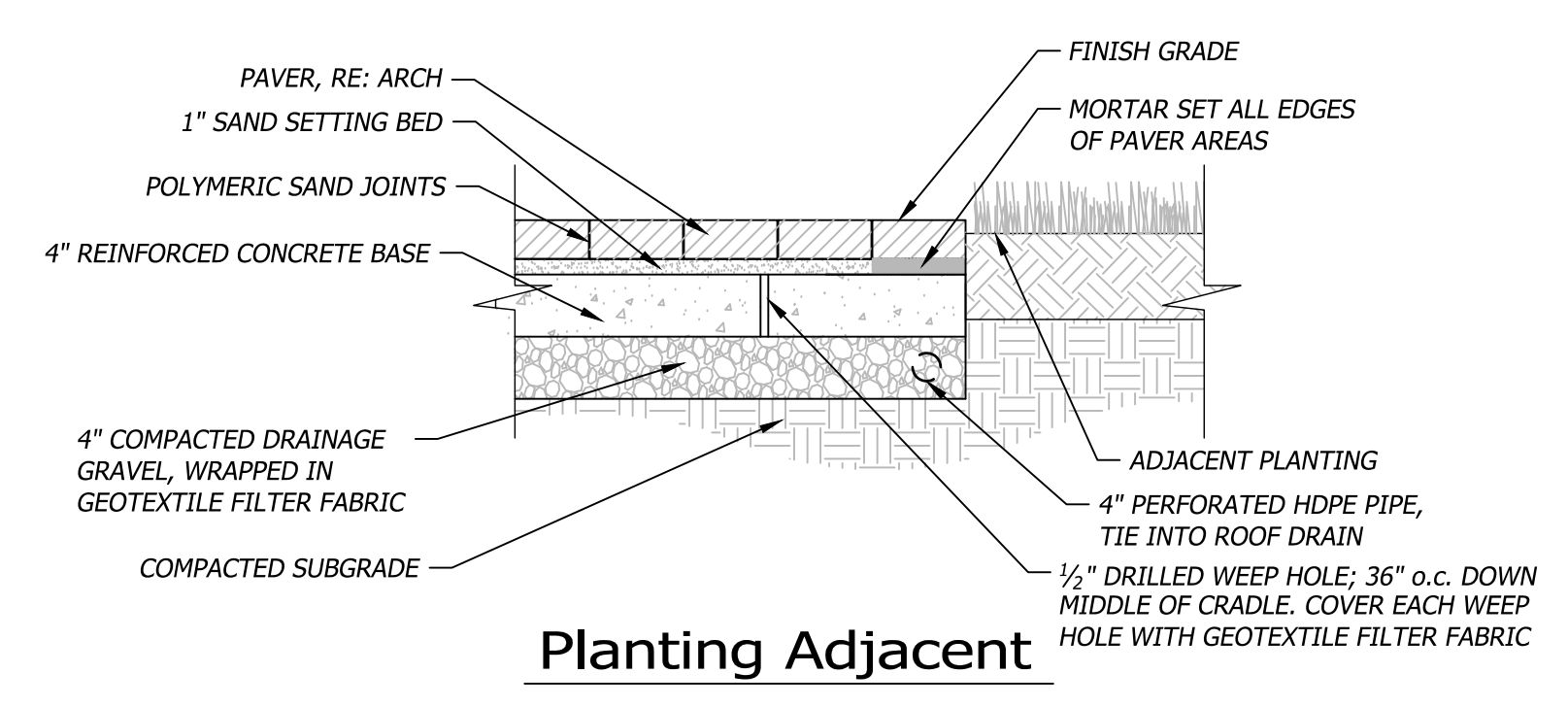
- GENERAL NOTES:**
1. CONSTRUCTED OF STEEL NOT LESS THAN 4" IN DIAMETER AND CONCRETE FILLED.
  2. SPACE NOT MORE THAN 4' BETWEEN POST.
  3. SET NOT LESS THAN 3' DEEP IN A CONCRETE FOOTING OF NOT LESS THAN A 15" DIAMETER.
  4. SET WITH THE TOP OF THE POST NOT LESS THAN 3' ABOVE GROUND.
  5. LOCATED NOT LESS THAN 3' FROM THE PROTECTED OBJECT.



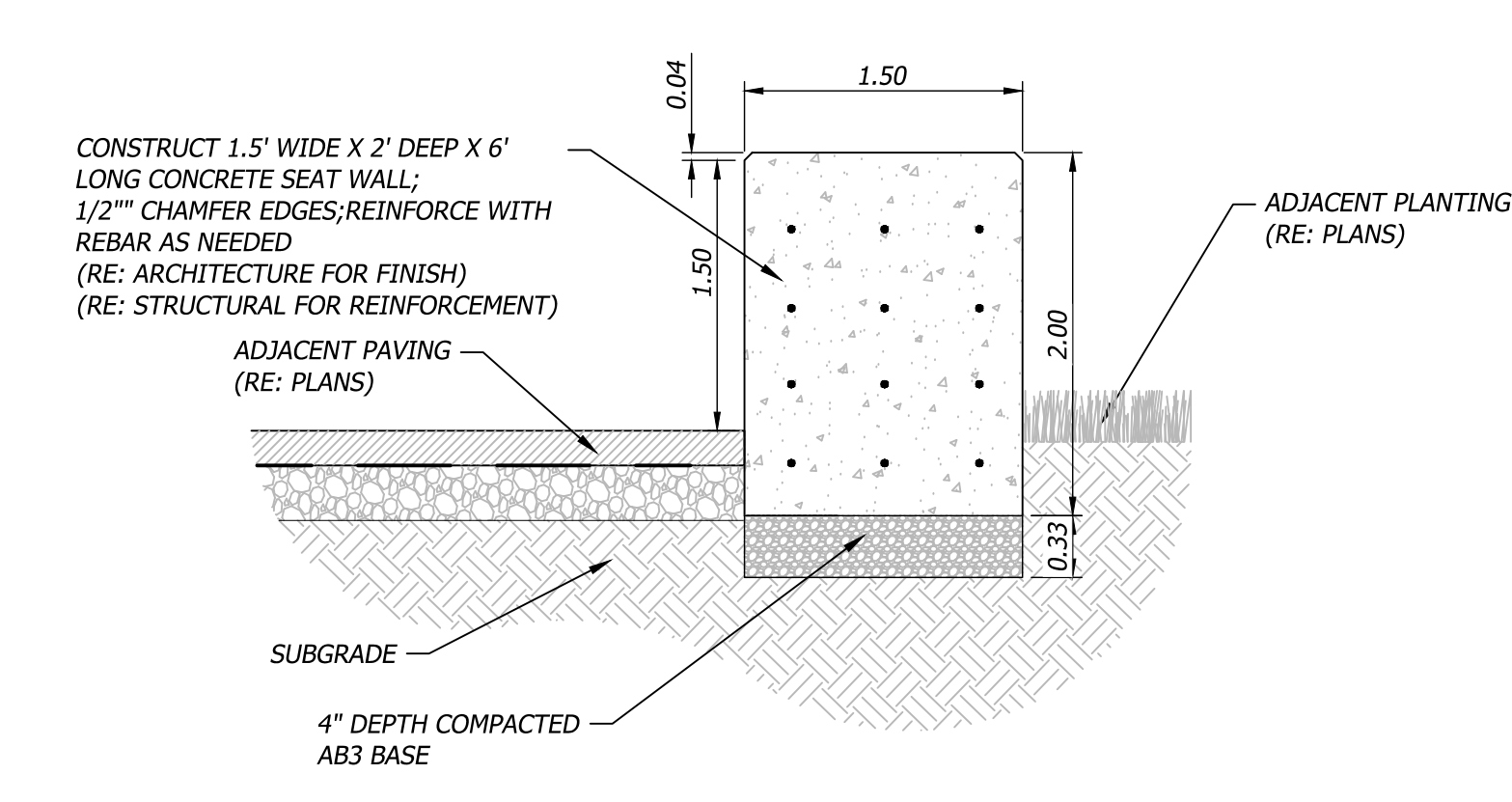
**017 Steel/Concrete Bollard**  
 Not to Scale



**015 Seat Wall Adjacent**  
 Not to Scale

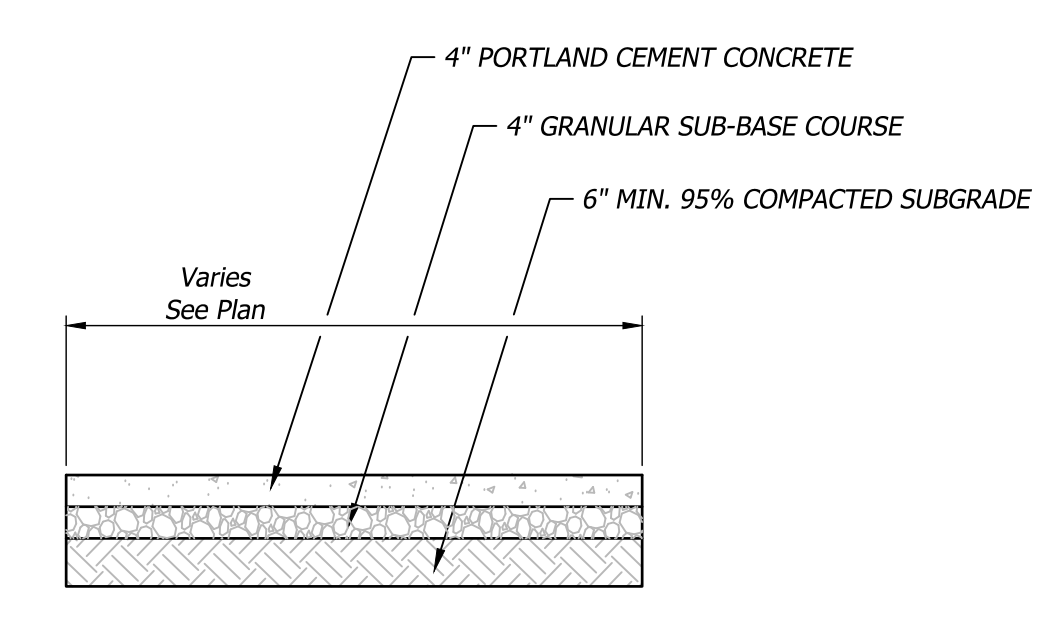


**015 Paver Detail**  
 Not to Scale

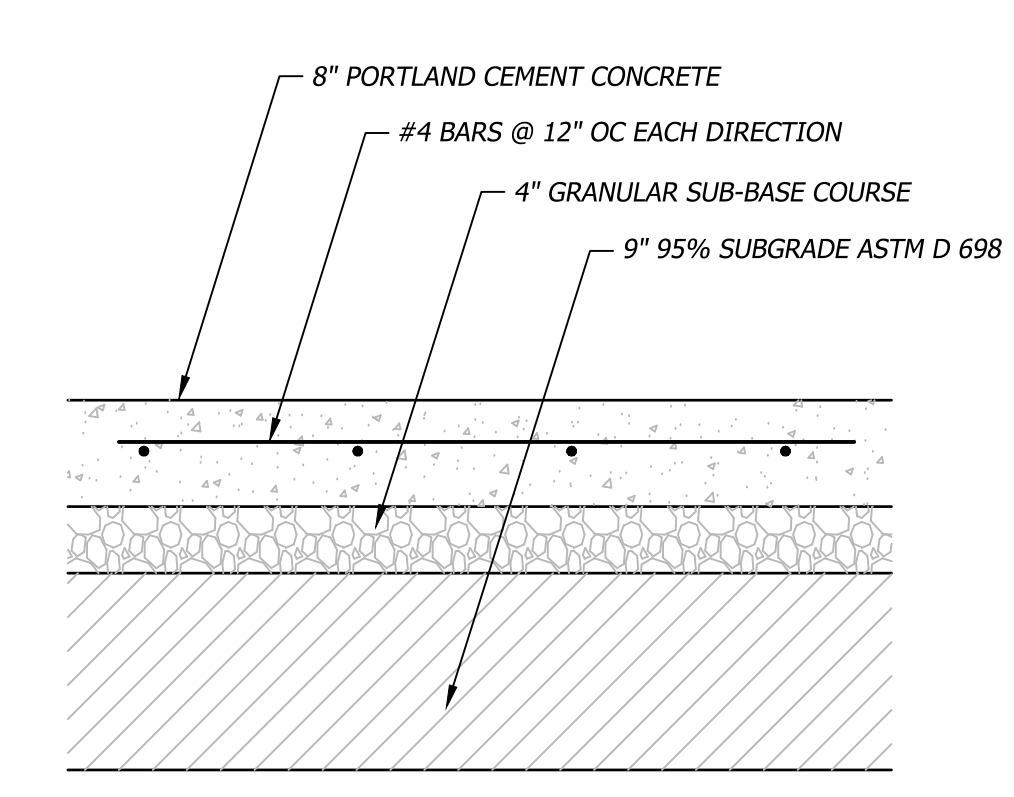


**016 Concrete Seat Wall**  
 Not to Scale

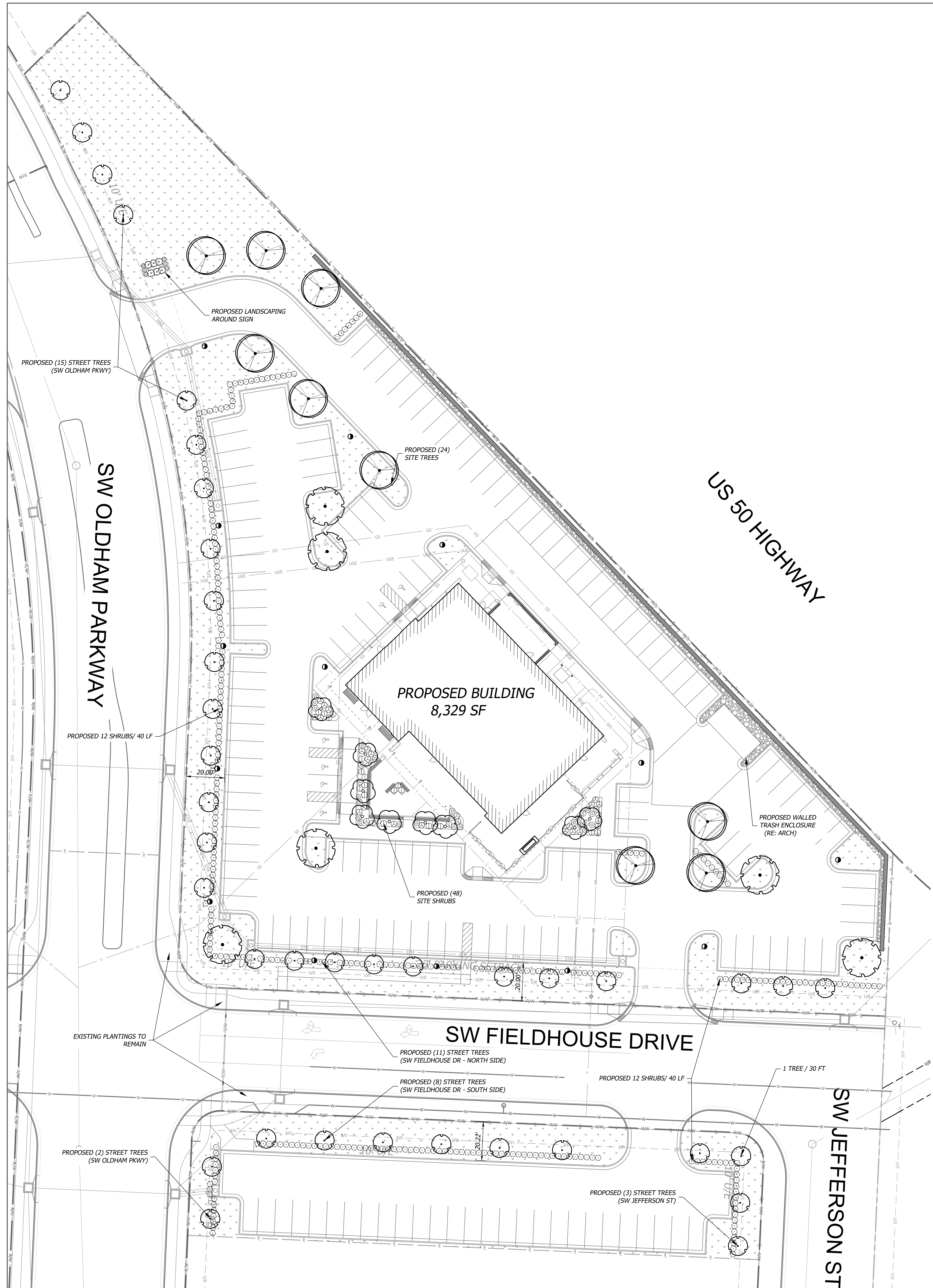
- NOTES:**
1. CONTROL JOINT SPACING SHALL MATCH WIDTH OF SIDEWALK.
  2. ISOLATION JOINTS SHALL BE PLACED @ 25' CENTERS OR WHERE WALKS ABOUT CURBS, BUILDINGS, ETC....
  3. ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH.



**014 Concrete Sidewalk Section**  
 Not to Scale



**012 Concrete Dumpster Pad Section**  
 Not to Scale



SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	REMARKS
<b>TREES</b>						
	CP	38	Celtis occidentalis 'Prairie Sentinel' Prairie Sentinel Hackberry	B & B	2.5" Cal	FOR PLANTING SPECIFICATIONS SEE SHEET L200
	NH	9	Nyssa sylvatica 'Haymanred' TM Red Rage Tupelo	B & B	2.5" Cal	
	PP	9	Populus tremuloides 'NE Arb' Prairie Gold® Quaking Aspen	B & B	2.5" Cal	
	QU	6	Quercus macrocarpa 'JFS-KW3' TM Urban Pinnacle Oak	B & B	2.5" Cal	

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	PLANT HT.	REMARKS
<b>SHRUBS</b>						
	BG	332	Buxus x 'Green Velvet' Green Velvet Boxwood	5 gal		FOR PLANTING SPECIFICATIONS SEE SHEET L200
<b>PERENNIALS</b>						
	BA	24	Bouteloua gracilis 'Blonde Ambition' Blonde Ambition Blue Grama	2 gal	6" - 12" H	FOR PLANTING SPECIFICATIONS SEE SHEET L200
	SB	28	Schizachyrium scoparium 'Minibluella' Blue Heaven Little Bluestem	3 gal	12" - 18" H	
	SH	21	Sporobolus heterolepis Prairie Dropseed	5 gal	18" - 24" H	

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	REMARKS
<b>GROUND COVERS</b>				
	37,389 sf	Festuca arundinacea 'Watersaver Blend' Watersaving Blend of Tall Fescue	sod	Sod: 90% 3-species Turf-Type Fescue Blend (Covenant II, Avenger, Garrison), 10% Bluegrass.

**ROCK SCHEDULE**

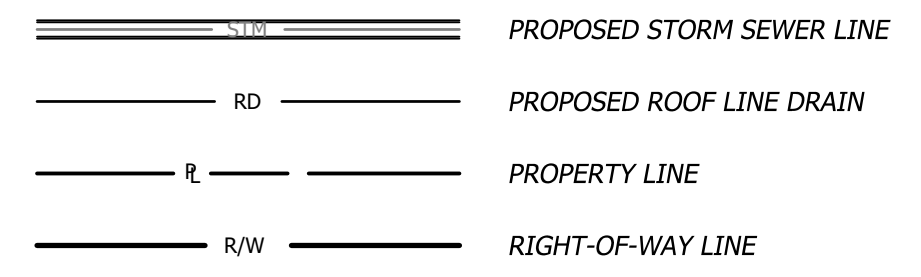
**ROCK MULCH** 854 sf  
Buffalo River Rock or regional equal.  
Size: 1"-3" Depth: 3" SAMPLE OF ROCK MULCH TO BE PROVIDED TO OWNER AND ARCHITECT FOR APPROVAL.

NOTE: ALL PLANTING AREAS TO BE COVERED WITH CODE APPROVED GROUND COVER SUCH AS MULCH, SOD, OR OTHER APPROVED EQUAL.  
NOTE: ALL DISTURBED AREAS IN RIGHT OF WAY TO BE RESTORED TO PRIOR CONDITION OR RESEDED WITH TURF-FESCUE GRASS.

**SITE DATA**

	Quantity	Required	Provided
<b>Site Area</b>	119,464		
<b>Open Space Req</b>			
1 tree / 5000 sq ft	119,464	23.89	24
2 shrubs / 5000 sq ft	119,464	47.79	48
<b>Street Tree</b>			
1 tree / 30 LF of street			
SW Oldham Pkwy	502 LF	16.73	17
SW Fieldhouse Dr - North Side	318 LF	10.6	11
SW Fieldhouse Dr - South Side	225 LF	7.5	8
SW Jefferson St	67 LF	2.23	3
<b>Parking Landscape</b>			
total LA are 5% of parking area	N/A	Yes	Yes
12 shrubs / 40 LF	1112 LF	333.6	335
islands to be min 9' wide	N/A	Yes	Yes

**LEGEND**



**brr** BRR ARCHITECTURE INC.  
818 WESTLAF AVENUE  
OVERLAND PARK, KS 66204  
WWW.BRRARCH.COM  
TEL: 913-282-9895  
FAC: 913-282-9844

**BHC**  
CIVIL ENGINEERING / SURVEYING / UTILITIES  
7101 College Blvd., Suite 400  
Overland Park, Kansas 66210  
P: (913) 663-1900  
BHC is a member of the Hanger Group of Companies, P.A.

CONSULTANT  
PROJECT TITLE  
CLIENT

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE  
LEE'S SUMMIT, MO

PROJECT NUMBER	62910099
PROJECT MANAGER	BRR
DRAWN BY	BRR
CHECKED BY	
PROFESSIONAL SEAL	



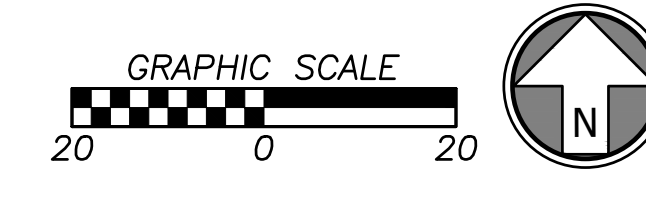
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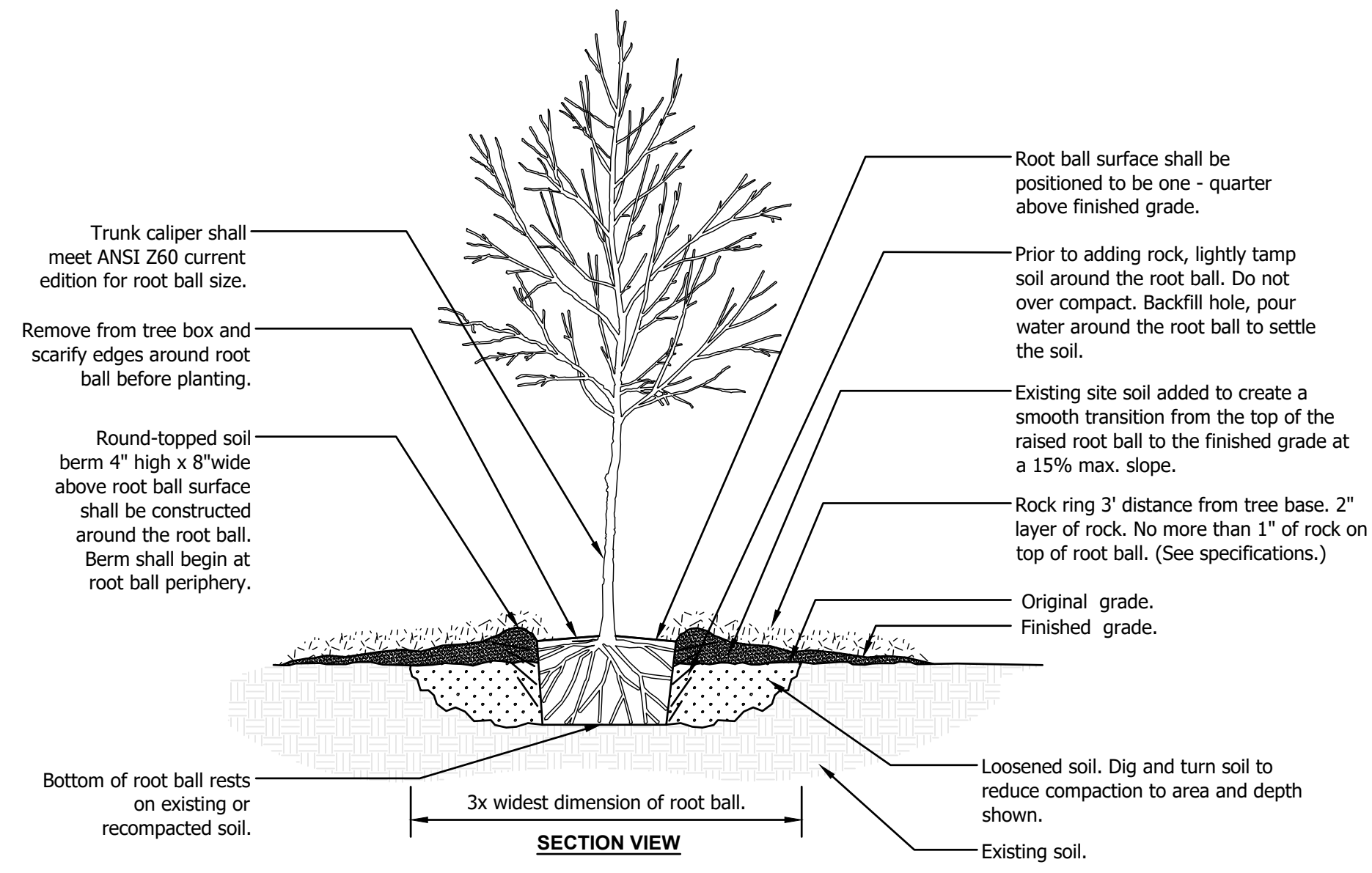
ISSUES AND REVISIONS			
NUMBER	DATE	ISSUES	DESCRIPTION

SHEET NAME  
**LANDSCAPE PLAN**  
SHEET NUMBER

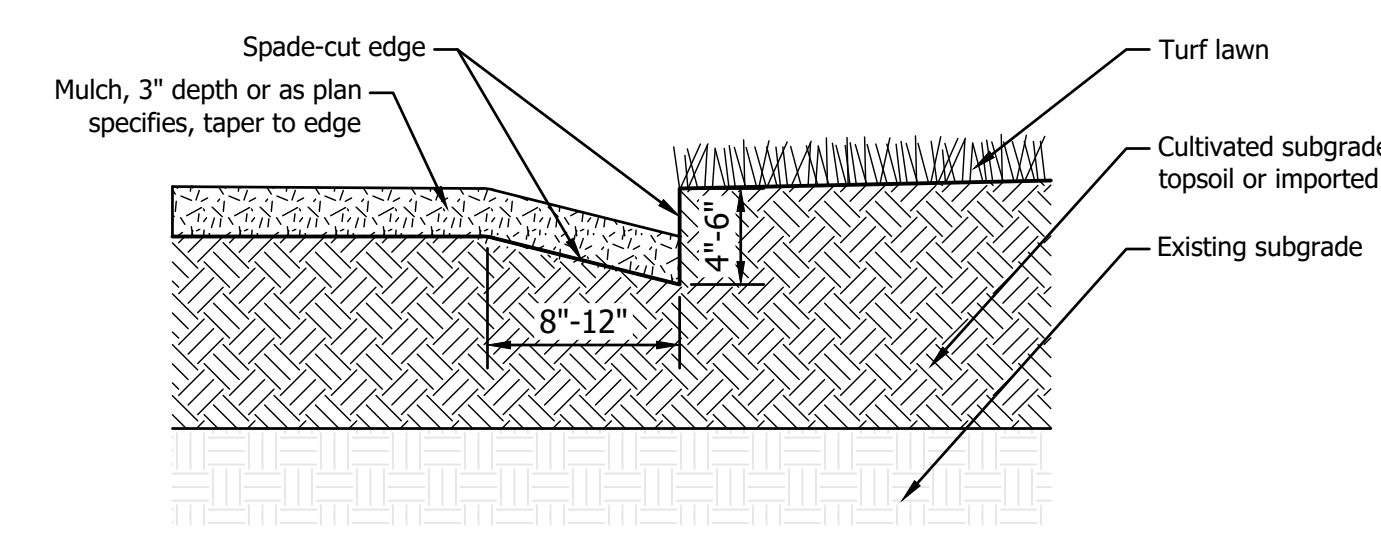
**L100**

04/04/2025

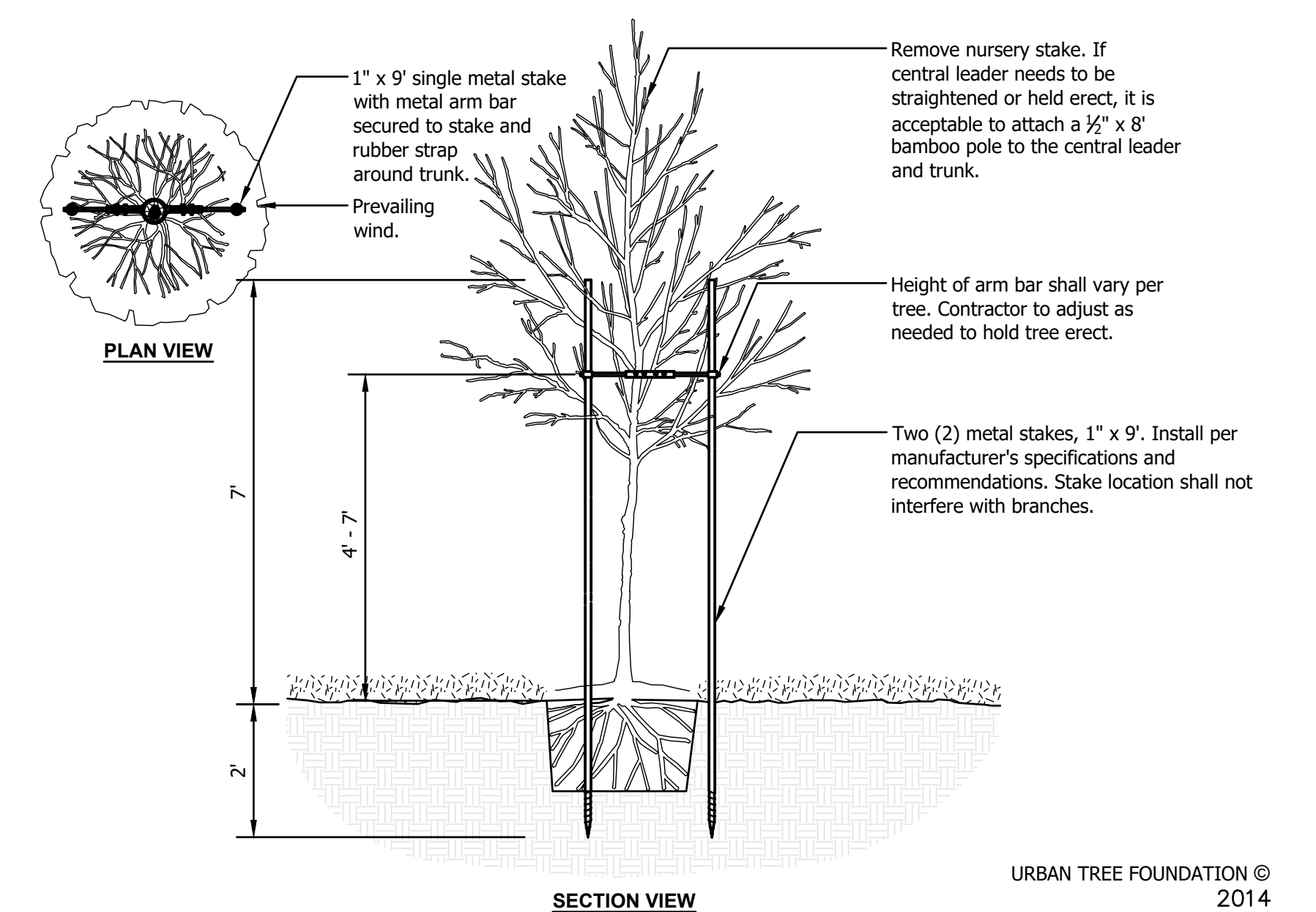




**801 Tree Planting Detail**  
Not to Scale



**804 Spade Cut Edge Detail**  
Not to Scale



**802 Tree Staking Detail**  
Not to Scale

**sure-loc**<sup>®</sup>

\*TOP OF EDGING TO BE NO MORE THAN 1/2" (12.7 mm) ABOVE FINISH GRADE

\*TOP OF STACK DESIGNED TO LOCK 1/2" (12.7 mm) BELOW TOP OF EDGING

\*COMPACT GRADE ADJACENT TO EDGING TO AVOID SETTLING

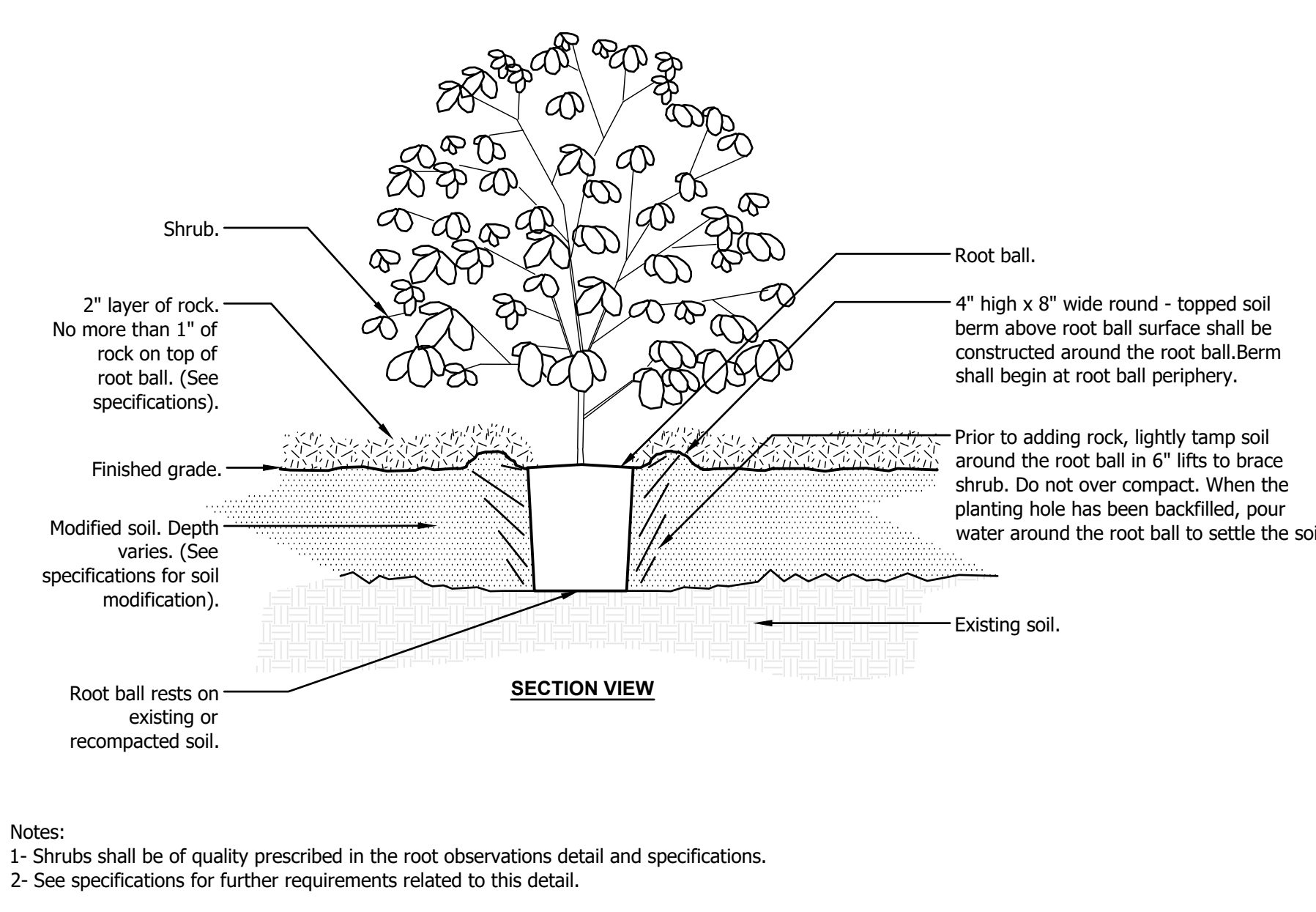
SELECT DESIRED SIZE

PRODUCT	SIZE	PACKAGE
SURE-LOC CRISPEDE	1/8" X 4"	15 PIECES (120 LINEAR FEET) PER BOX
SURE-LOC CRISPEDE	1/8" X 4" X 16'	15 PIECES (240 LINEAR FEET) PER BOX
SURE-LOC CRISPEDE	1/8" X 5 1/2"	15 PIECES (240 LINEAR FEET) PER BOX
SURE-LOC SUREEDGE	3/16" X 4"	10 PIECES (160 LINEAR FEET) PER BOX
SURE-LOC SUREEDGE	3/16" X 5 1/2"	10 PIECES (160 LINEAR FEET) PER BOX

SURE-LOC ALUMINUM EDGING CORPORATION  
494 EAST 64TH ST  
HOLLAND, MI 49423  
TOLL FREE: 1-800-787-3562  
PHONE: (616) 392-3209  
FAX: (616) 392-5134  
www.surelocedging.com

NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
2. DO NOT SCALE DRAWINGS.  
3. CONTRACTORS NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 200-005

**805 Aluminum Landscape Edging Detail**  
Not to Scale



**803 Shrub Planting Detail**  
Not to Scale

**DeWitt**  
DOWN TO EARTH PROTECTION

**Pro 5 Weed Barrier**

DeWitt Pro 5 Weed Barrier is a woven, needle-punched polypropylene fabric for control of weed growth. It is designed to allow air, water, and nutrients to pass through, while blocking light to the soil surface. It is formulated to resist degradation.

Property	Test Method	Unit	Minimum Average
Woven Material	None	None	Polypropylene Fibers
Color	None	None	Black with Gold Strips
Construction Weight	ASTM D 550	OGGY	13.3 (10.1 - 15.2)
Weight	None	None	1.1
Grab Tensile Strength	ASTM D 4035	LB	5.0 (3.2 - 5.0)
Grab Elongation	ASTM D 4035	%	10 (10 - 10)
Tensile Tear	ASTM D 4035	LB	10 (10 - 10)
Impact Tear	ASTM D 4035	LB	10 (10 - 10)
Impact Puncture	ASTM D 4035	LB	10 (10 - 10)
Impact Puncture	ASTM D 4035	LB	10 (10 - 10)
Impact Puncture	ASTM D 4035	LB	10 (10 - 10)

905 South Kingshighway Bixton, MO 63801  
www.dewittusa.com  
573.472.0046 phone / 800.888.9668 / 573.471.6715 fax

NOTE:  
• Only to be installed in rock mulch areas, as noted on plans, prior to installation of rock mulch.  
• Polypropylene landscape fabric shall meet or exceed the DeWitt Pro 5 specification. Any product substitution to be submitted by contractor to project manager for approval prior to installation.  
• Landscape fabric shall be installed flat.  
• Adjoining landscape fabric shall overlap by a minimum of 2'-4".  
• All folds, corners, and overlapping areas of landscape fabric shall either be pinned down with 4" landscape pins or 4" steel landscape staples.  
• Mulch to be installed over polypropylene landscape fabric at specified depth after landscape fabric is installed and secured.

**806 Weed Barrier Detail**  
Not to Scale

**PLANTING NOTES**

- All existing utilities need to be located and identified prior to the commencement of any work or installation.
- Protect all structures, utilities, hardscapes, and other facilities, as well as existing turf grass areas and existing plant material from damage caused by planting operations.
- The planting plan graphically illustrates overall plant massings. Each plant species massing shall be placed in the field to utilize the greatest coverage of ground plane. The following applies for individual plantings unless otherwise specified:
  - Croeping groundcover shall be a minimum of 6" from any paving edge.
  - All shrubs shall be a minimum of 2' from any paving edge unless adjacent to vehicular parking areas, whereas shrubs shall then be a minimum of 4' from back of curb to allow for bumper overhang.
  - All trees shall be a minimum of 3' from any paving edge or curb.
  - All plants of the same species shall be equally spaced apart and placed for best aesthetic viewing and overall plant success.
- Mulch all planting bed areas with decomposed granite to a minimum depth of 2".

- MATERIALS:**
- Plant material shall be healthy, vigorous, and free of disease and insects as per AAN standards.
  - Kind, size, and quality of plant material shall conform to American Standard for Nursery Stock, ANSI Z601-2014, or most current edition.
  - Any seed planted areas shall not use wet, moldy, or otherwise damaged seed.
  - Shredded bark mulch installed at trees shall be finely chipped and shredded hardwood chips, consisting of pure wood products and free of all other foreign substances. Fine bark compost mulch installed at planting bed areas shall be free of all other foreign substances.
  - Topsoil shall be free of stones larger than 1/2", foreign matter, plants, roots, and seeds. Manure shall be well-rotted, unbleached, stable or cattle manure containing not more than 25% by volume of straw, sawdust, or other bedding materials and shall be free of toxic substances, stones, sticks, soil, weed seeds, and material harmful to plant growth.

- INSTALLATION:**
- All compacted soil within the area to be landscaped shall be removed to a depth of not less than 2" and shall be backfilled with topsoil.
  - Prepare planting beds by incorporating an approved composed organic soil into existing soil for all shrub, perennial, and annual planting beds at a minimum depth of 6". Thoroughly mix organic material into the existing soil by roto-tilling or other approved method to a minimum depth of 12".
  - Planting of trees, shrubs, and seeded groundcover shall commence during the spring (March 15 - June 15) or fall (September 1 - October 15) planting season. Water shall be available for hand irrigation purposes.
  - Apply liquid root stimulator to all shrubs and groundcovers at rates recommended by manufacturer during first plant watering following installation.
  - After plants have been installed, all planting beds shall be treated with dacthal pre-emergent herbicide prior to mulch application.
  - All planting areas shall be brought to a smooth, uniform surface, free of ruts and irregularities. All landscape beds shall be level with surrounding surfaces or hardscape unless specified otherwise.
  - Plant pit backfill for trees and shrubs shall be 20% peat or well composted manure and 80% topsoil.
  - Trees, shrubs, and perennials shall not be pruned or trimmed before delivery, and shall not be pruned during or after installation except to remove damaged or dead growth.
  - Plant material shall be guaranteed for a period of one year after owner's acceptance of finished job. All dead or damaged plant material shall be replaced at landscape contractor's expense.
  - Landscape contractor shall maintain all plant material until final acceptance, at which point the one year guarantee begins.

**SOD NOTES**

- All disturbed areas shall be sodded/seeded with turf-type tall fescue sod with a minimum of three cultivars.
- All landscaped areas shall receive a minimum 6" depth of topsoil compacted to 85% density at optimum moisture content.
- The entire surface to be landscaped should be reasonably smooth and free from stones 1/2" and larger, sticks, roots, debris, and other extraneous material in the top 6" of soil.
- Sod shall be machine striped at a uniform soil thickness of approximately 1" (plus or minus 1/2"). The measurement for thickness shall exclude top growth and thatch, and shall be determined at the time of cutting in the field. Precautions shall be taken to prevent drying and heating. Sod damaged by heat and dry conditions, and sod cut more than 18 hours prior to installation shall not be used.
- Handling of sod shall be done in a manner that will prevent tearing, breaking, drying, and other damage. Protect exposed roots from dehydration. Do not deliver more sod than can be laid within 24 hours.
- Moisten prepared surface immediately prior to laying sod. Water thoroughly and allow surface to dry before installing sod, fertilize, harrow or rake fertilizer in the top 1/2" of topsoil, at a uniform rate.
- Fertilizer shall be 20-10-5 commercial fertilizer of the grade, type, and form specified and shall comply with the rules of the State Department of Agriculture. Fertilizer shall be identified according to the percent N,P,K respectively.
- Saturate sod with fine water spray within two hours of planting. During the first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum of 4" depth.

ARCHITECT OF RECORD

**brr**

BRR ARCHITECTURE INC.  
818 WETSLAF AVENUE  
SUITE 200  
OVERLAND PARK, KS 66204  
WWW.BRRARCH.COM  
TEL: 913-242-8895  
FAX: 913-242-8844

CONSULTANT

**BHC**

CIVIL ENGINEERING / SURVEYING / UTILITIES  
7101 College Blvd., Suite 400  
Overland Park, Kansas 66210  
P: (913) 663-1900  
BHC is a member of the HOK Group

CLIENT

PROJECT TITLE

Q39 (SHELL)  
LEE'S SUMMIT, MO  
OLDHAM VILLAGE  
LEE'S SUMMIT, MO

PROJECT NUMBER: 62910099

PROJECT MANAGER: BRR

DESIGNED BY: BRR

CHECKED BY:

PROFESSIONAL SEAL:



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**ISSUES AND REVISIONS**

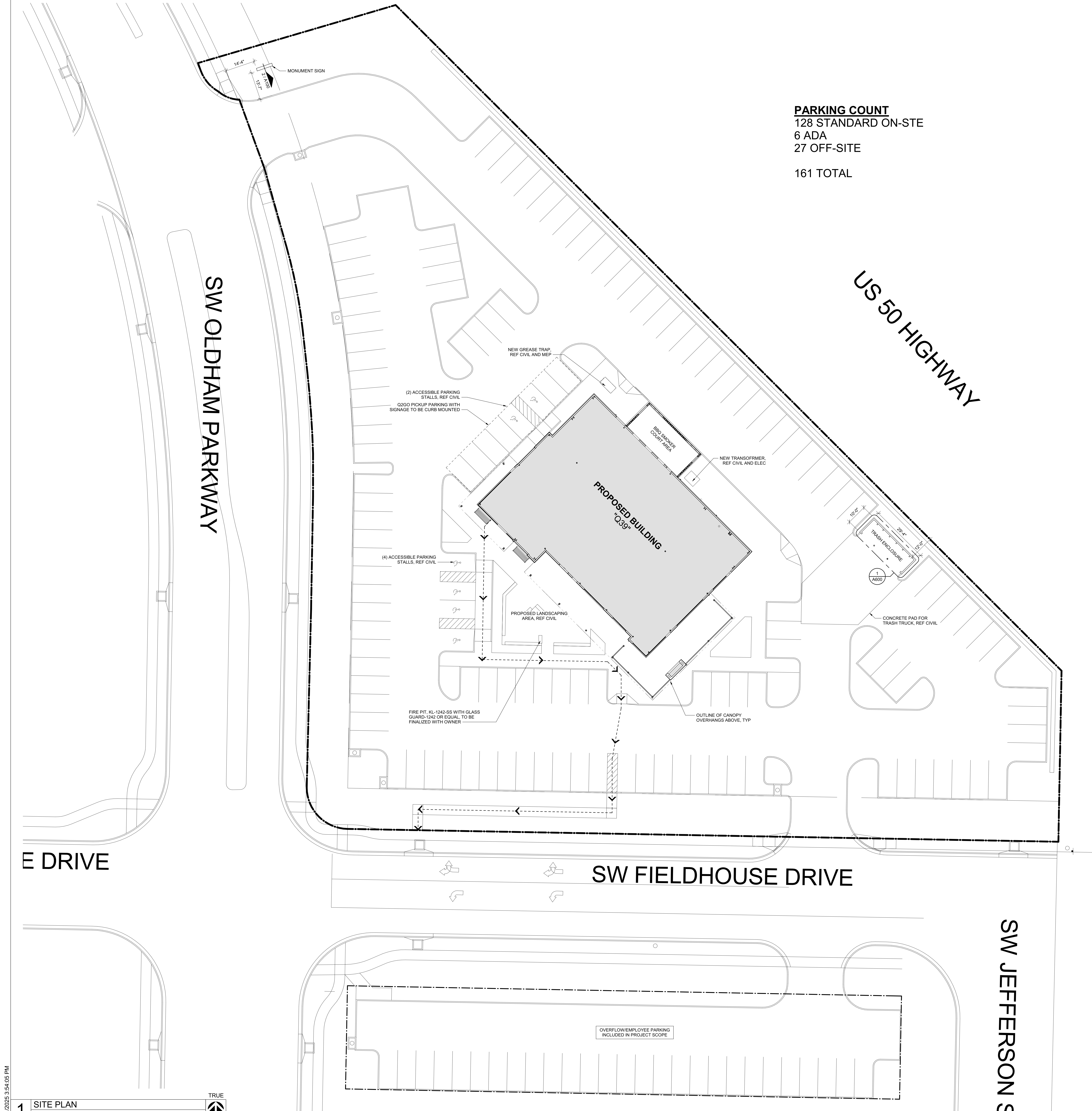
NUMBER	DATE	DESCRIPTION
1	ISSUES	ORIGINAL ISSUE

SHEET NAME

PLANTING DETAILS

SHEET NUMBER

L200



**PARKING COUNT**  
 128 STANDARD ON-SITE  
 6 ADA  
 27 OFF-SITE  
 161 TOTAL

- SHEET NOTES**
1. ALL EXTERIOR SIDEWALK JOINTS TO BE FILLED WITH SEALANT, REF CIVIL
  2. REF CIVIL AND MEP FOR LOCATION OF GREASE INTERCEPTOR
  3. REF CIVIL, STRUCTURAL, AND MEP FOR ADDITIONAL INFORMATION
  4. REF CIVIL FOR ALL CONCRETE WORK OUTSIDE OF BUILDINGS EXTERIOR WALLS

- SYMBOLS LEGEND**
- LINE OF SCOPE DELINEATION. ALL SCOPE SHOWN WITHIN THESE LIMITS IS BY OUR OFFICE. AS A GENERAL RULE, THE SCOPE LIMIT LINE IS BACK FACE OF THE SURROUNDING CONCRETE CURB.
  - ACCESSIBLE PATH TO PUBLIC RIGHT OF WAY, REF CIVIL

ARCHITECT OF RECORD

**brr**

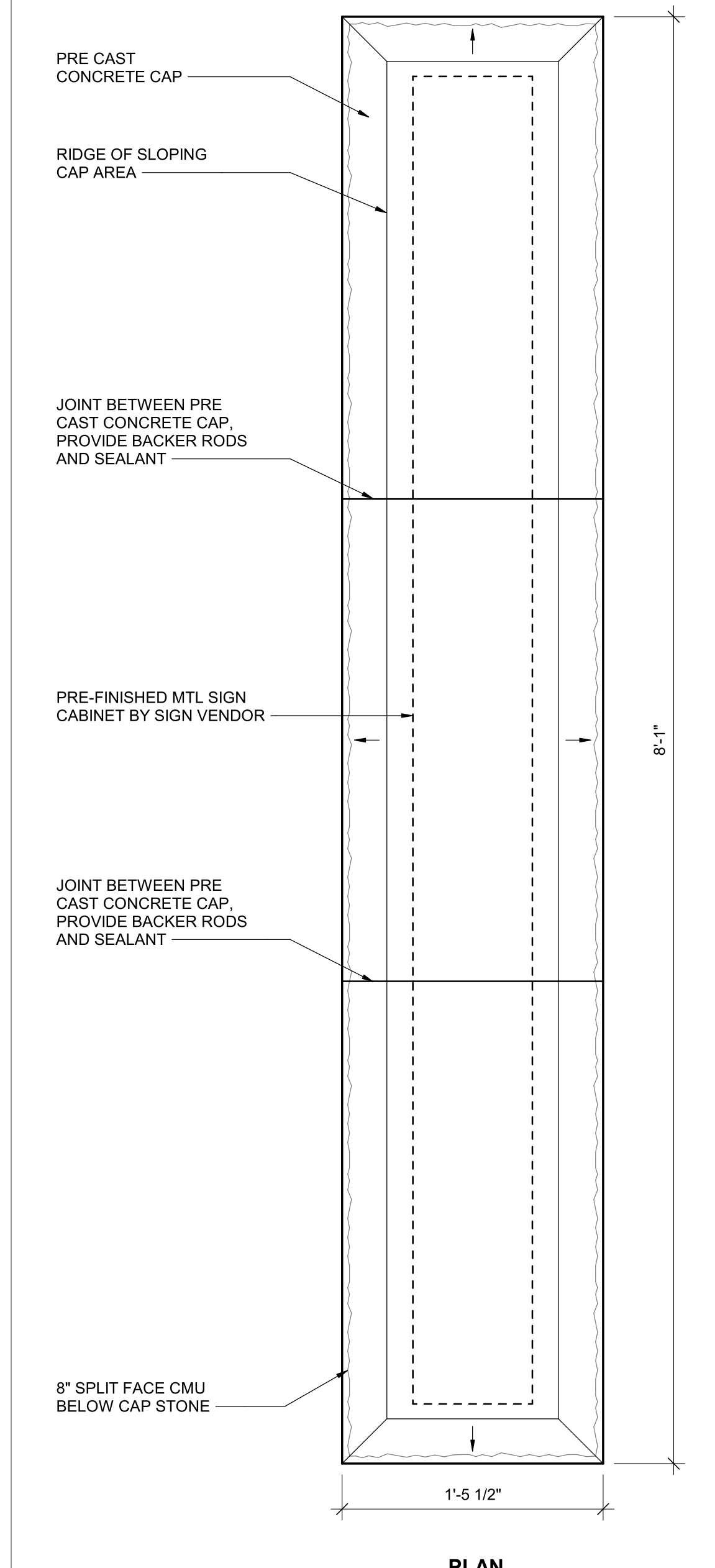
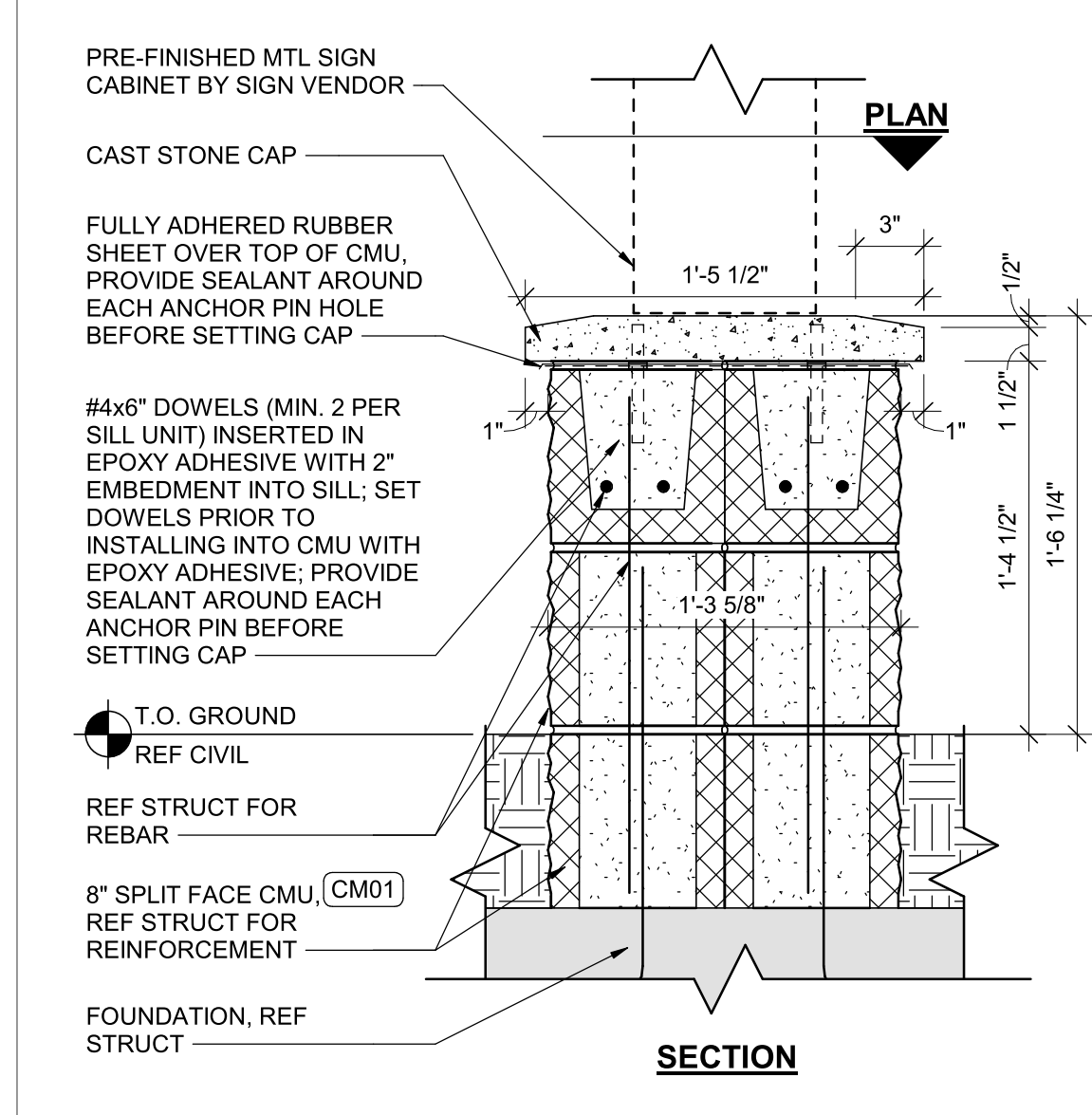
BRR ARCHITECTURE INC.  
 1111 WENTZ AVENUE  
 SUITE 200  
 OVERLAND PARK, KS 66204  
 WWW.BRRARCH.COM  
 TEL: 913-263-8666  
 FAX: 913-263-8644

CONSULTANT

CLIENT

PROJECT TITLE

Q39 (SHELL)  
 LEE'S SUMMIT, MO  
 OLDHAM VILLAGE



PROJECT NUMBER: 62500002

PROJECT MANAGER: TM DRAWN BY: ND CHECKED BY: [Signature]

PROFESSIONAL SEAL



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**ISSUES AND REVISIONS**

NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME: **SITE PLAN**

SHEET NUMBER: **A100**

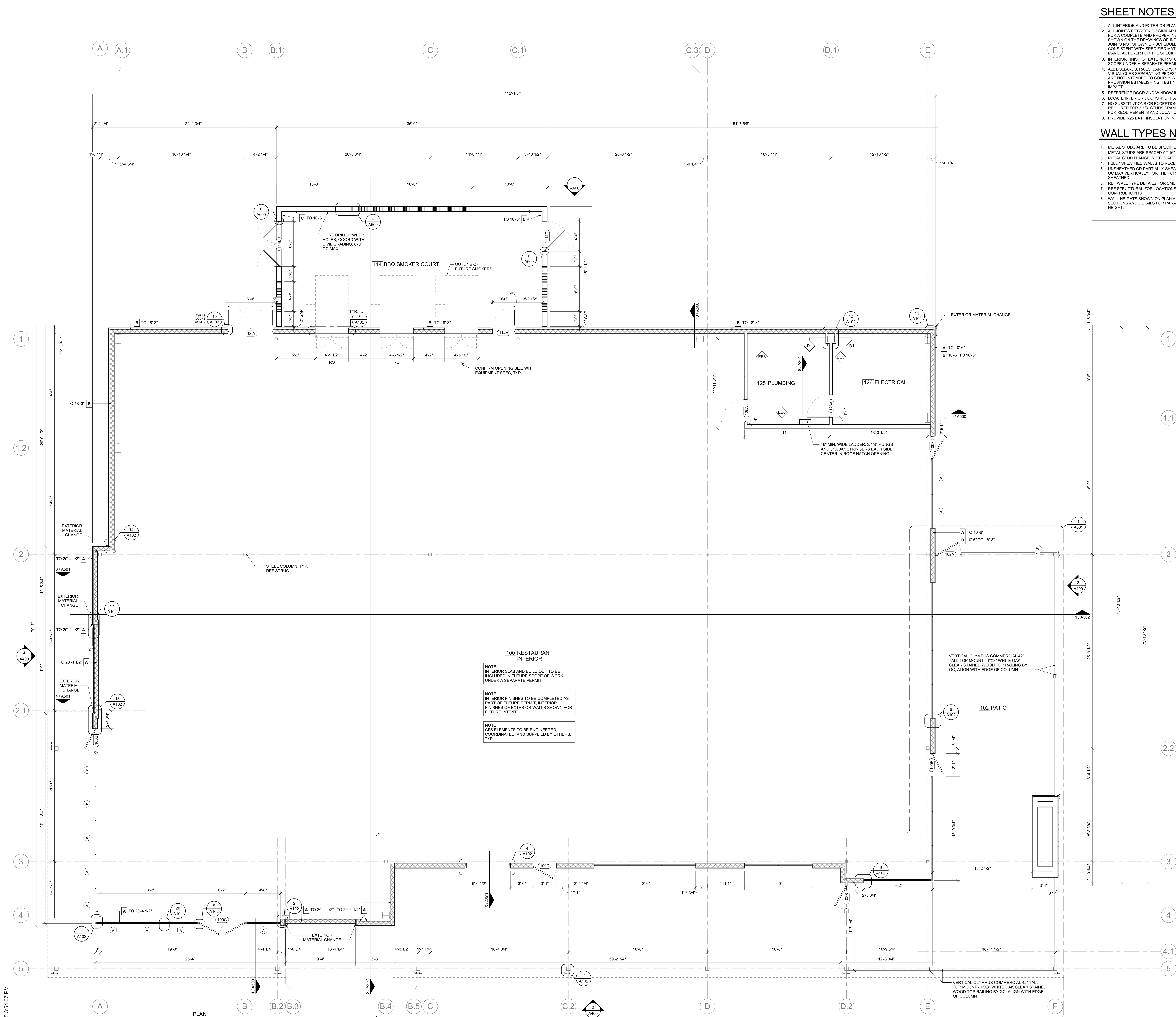
5/12/2025 3:54:05 PM

**1** SITE PLAN  
 1/16" = 1'-0"

TRUE

**2** MONUMENT SIGN  
 1 1/2" = 1'-0"





### SHEET NOTES

- ALL INTERIOR AND EXTERIOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNDO
- ALL JOINTS BETWEEN DISSIMILAR MATERIALS SHALL BE SEALED AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS. SUCH JOINTS NOT SHOWN OR SCHEDULED SHALL BE SEALED WITH SEALANTS CONSISTENT WITH SPECIFIED MATERIALS OR AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIC APPLICATION
- INTERIOR FINISH OF EXTERIOR STUD WALLS TO BE INCLUDED IN FUTURE SCOPE UNDER A SEPARATE PERMIT
- ALL BOLLARDS, RAILS, BARRIERS, OR GUARDS ARE USED ONLY TO PROVIDE VISUAL CUES SEPARATING PEDESTRIAN, EQUIPMENT, AND VEHICLE AREAS AND ARE NOT INTENDED TO COMPLY WITH ASCE, ASTM F3016, ASTM F2696, OR ANY PROVISION ESTABLISHING, TESTING, OR RATING REQUIREMENTS FOR VEHICLE IMPACT
- REFERENCE DOOR AND WINDOW INFORMATION FOR ADDITIONAL INFORMATION
- LOCATE INTERIOR DOORS 4" OFF ADJACENT WALL BEHIND HINGE UNDO
- NO SUBSTITUTIONS OR EXCEPTIONS ALLOWED WHERE SPECIAL FRAMING IS REQUIRED FOR 3" STUDS SPANNING FLOOR TO DECK, REFERENCE LEGEND FOR REQUIREMENTS AND LOCATION
- PROVIDE R25 BATT INSULATION IN EXTERIOR WALLS PER COMCHECK REPORT.

### WALL TYPES NOTES

- METAL STUDS ARE TO BE SPECIFIED BY CFS SUPPLIER, TYP
- METAL STUDS ARE SPACED AT 16" ON CENTER MAX UNDO
- METAL STUD FLANGE WIDTHS ARE TO BE SPECIFIED BY CFS SUPPLIER, TYP
- FULLY SHEATHED WALLS TO RECEIVE BRIDGINGS AT 8" OC MAX VERTICALLY
- UN-SHEATHED OR PARTIALLY SHEATHED WALLS TO RECEIVE BRIDGING AT 4" OC MAX VERTICALLY FOR THE PORTION OF WALL WHICH IS NOT FULLY SHEATHED
- REF WALL TYPE DETAILS FOR CMU THICKNESSES
- REF STRUCTURAL FOR LOCATIONS & MIN MAX REQUIREMENTS OF CONTROL JOINTS
- WALL HEIGHTS SHOWN ON PLAN ARE TO TOP OF THE STUD, TYP. REF WALL SECTIONS AND DETAILS FOR PARAPET CAP CONSTRUCTION AND FINISH HEIGHT.

ARCHITECT OF RECORD  
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 TEL: 913.263.9666  
 FAX: 913.263.9444

CONSULTANT  
 CLIENT  
 PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

**100 RESTAURANT INTERIOR**  
**NOTE:**  
 INTERIOR SLAB AND BUILD OUT TO BE INCLUDED IN FUTURE SCOPE OF WORK UNDER A SEPARATE PERMIT

**NOTE:**  
 INTERIOR FINISHES TO BE COMPLETED AS PART OF FUTURE PERMIT. INTERIOR FINISHES OF EXTERIOR WALLS SHOWN FOR FUTURE INTENT

**NOTE:**  
 CFS ELEMENTS TO BE ENGINEERED, COORDINATED, AND SUPPLIED BY OTHERS, TYP

PROJECT NUMBER	62500002
PROJECT MANAGER	TM
DRAWN BY	ND
CHECKED BY	[Signature]
PROFESSIONAL SEAL	



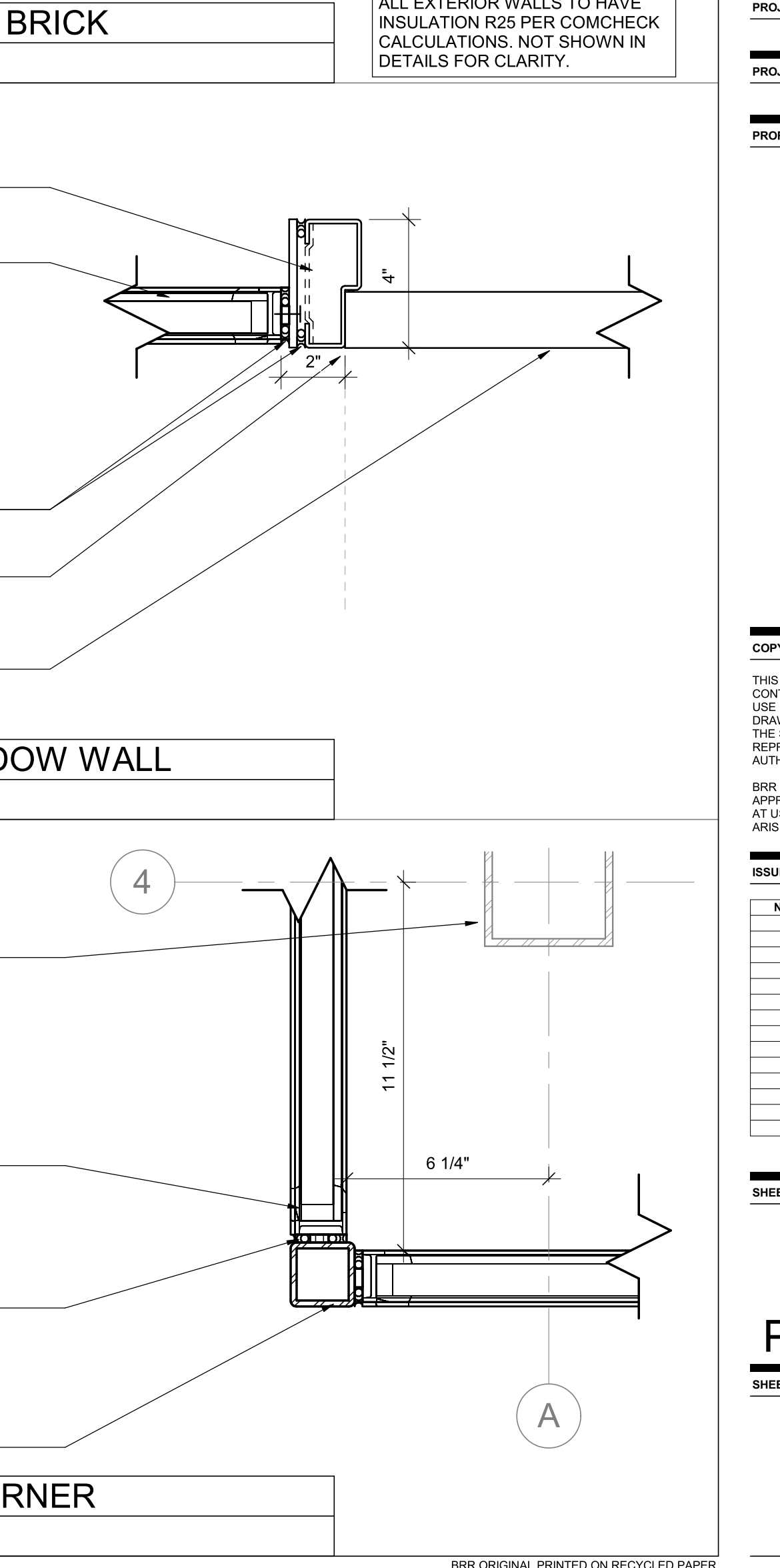
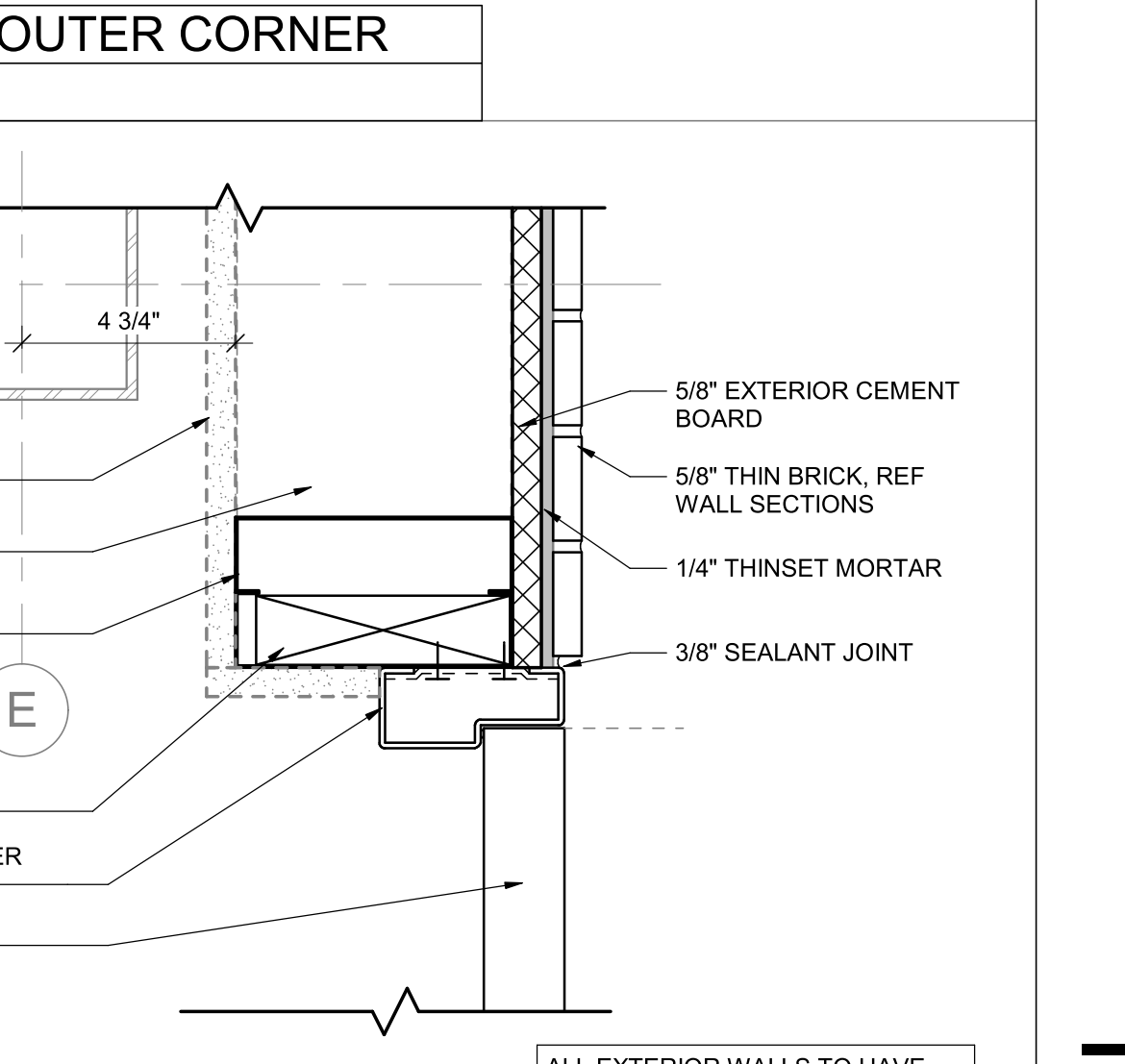
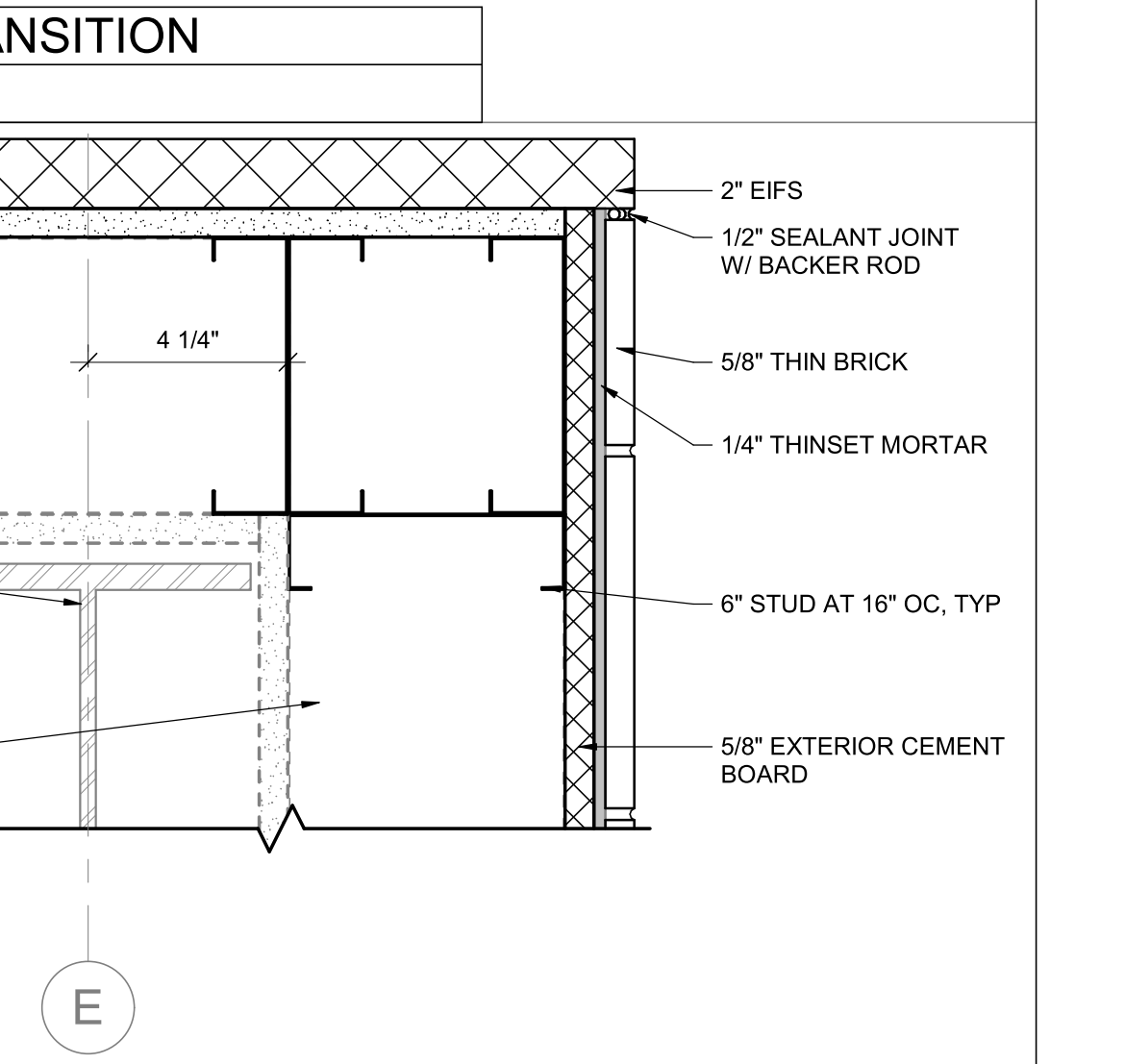
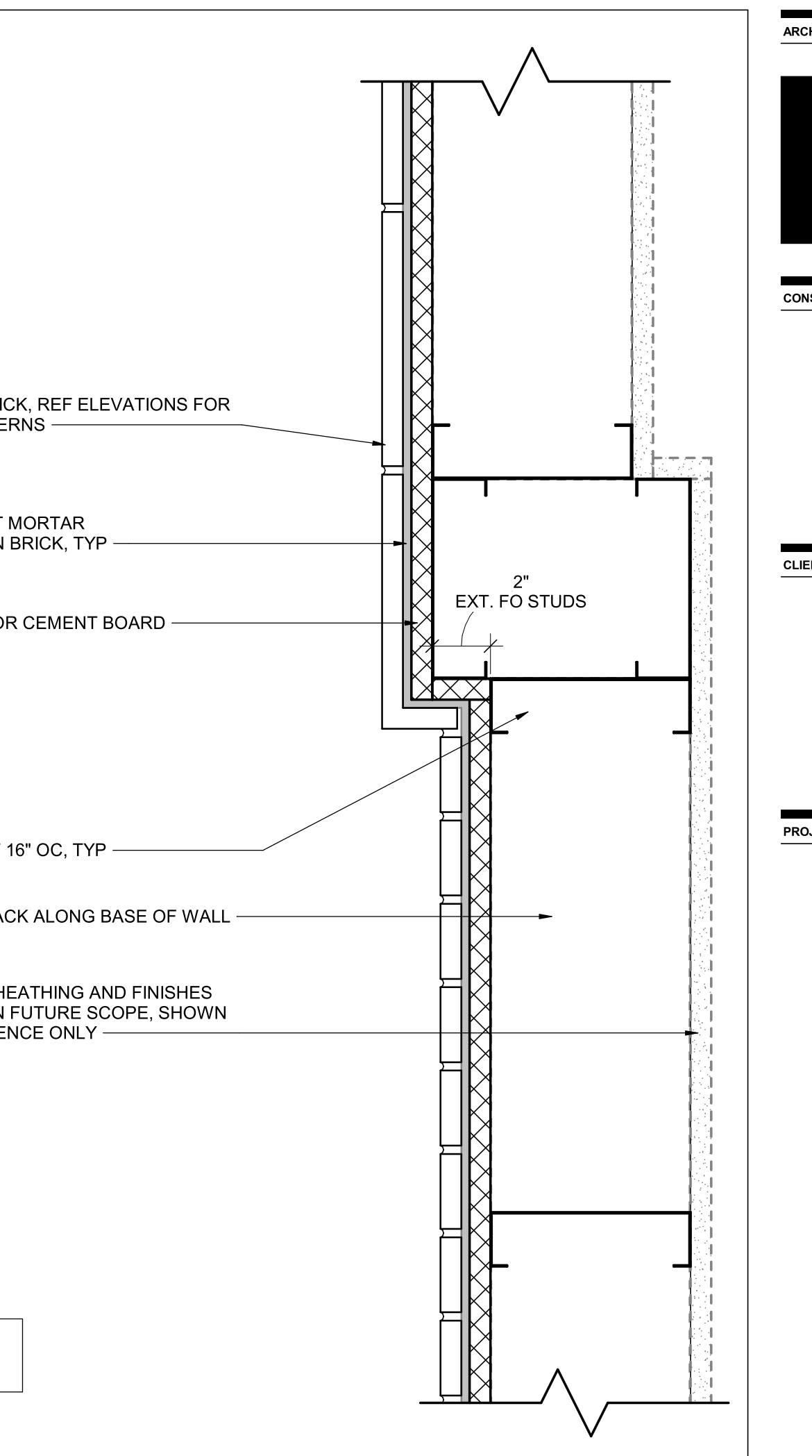
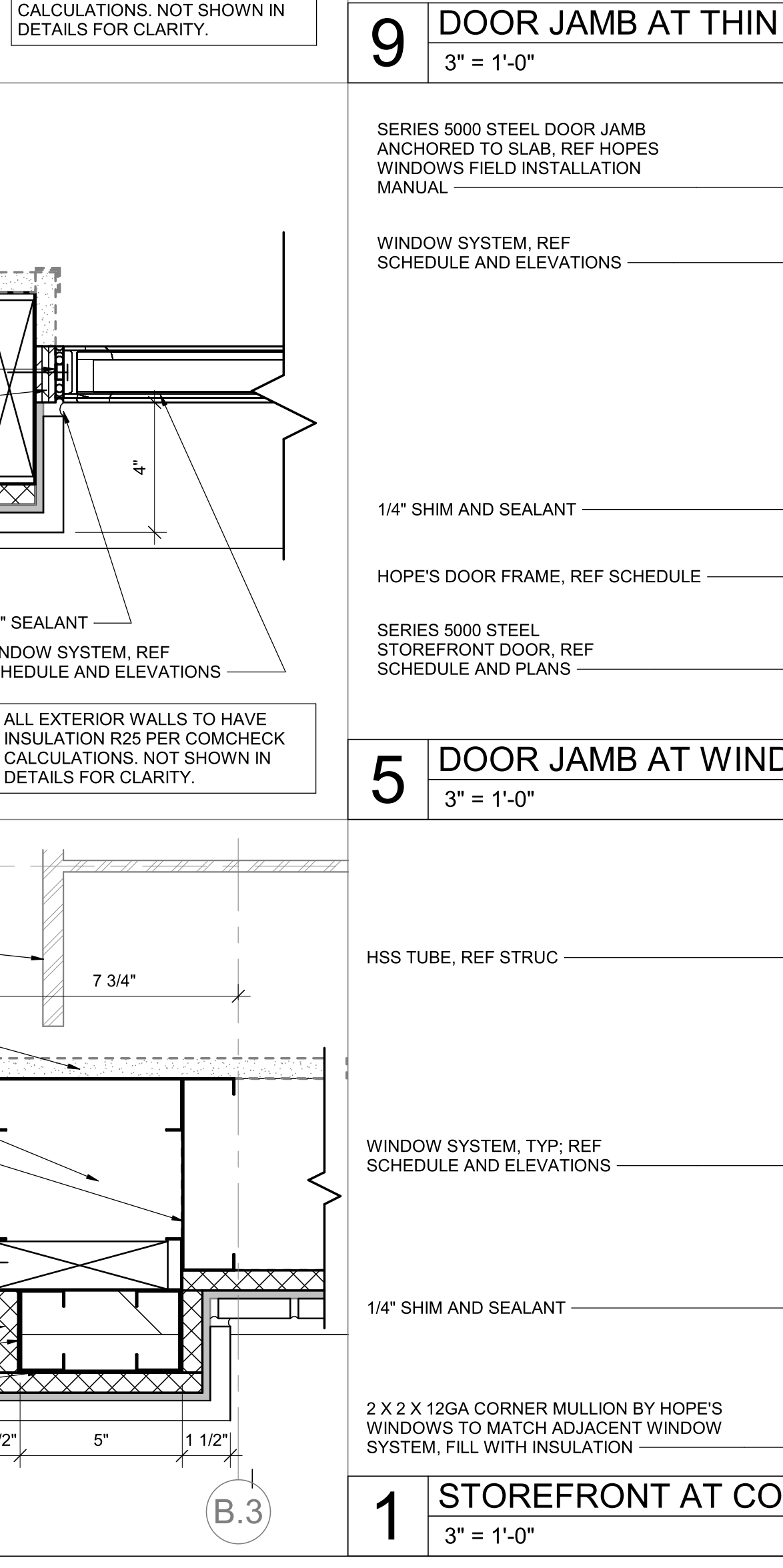
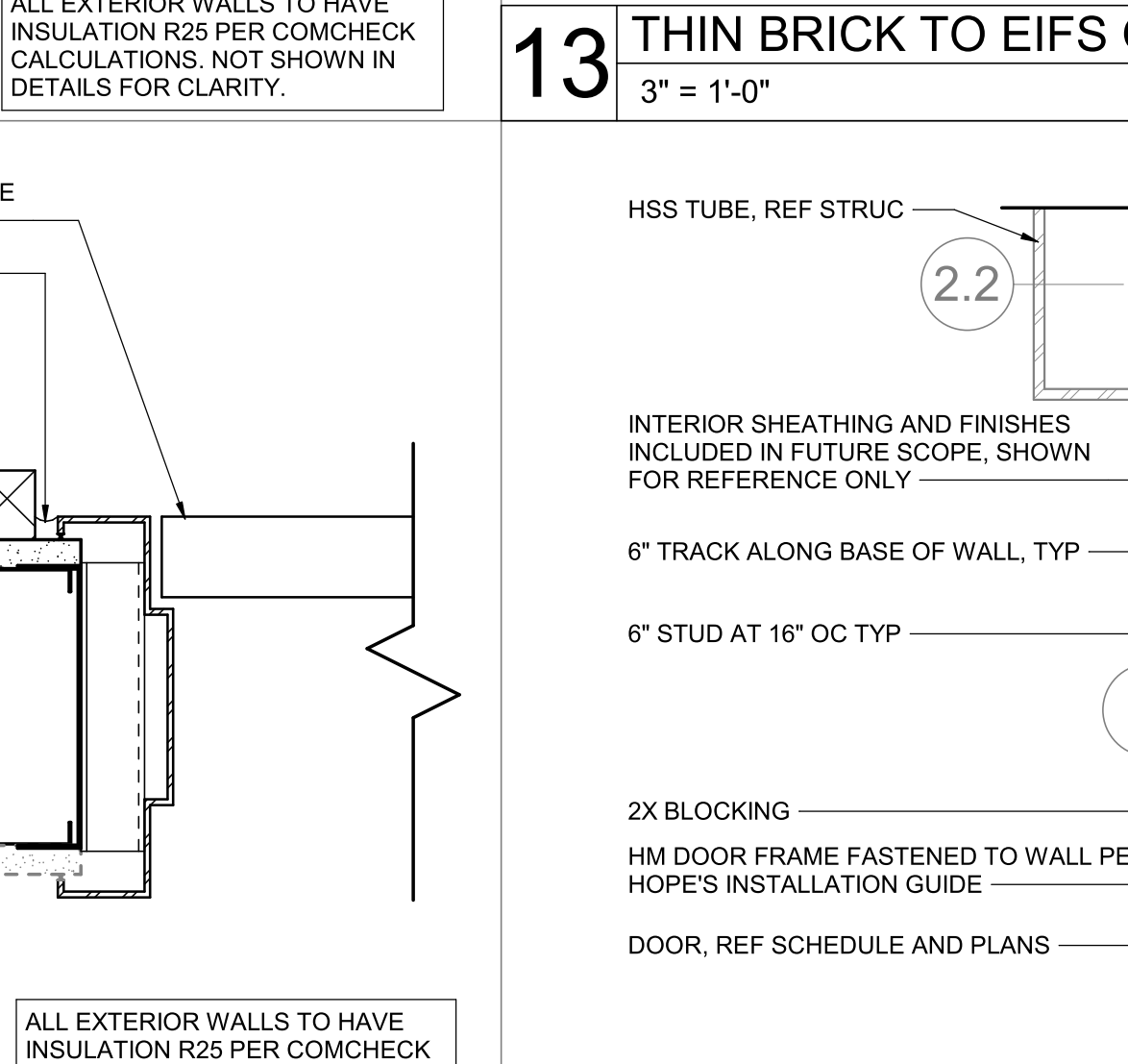
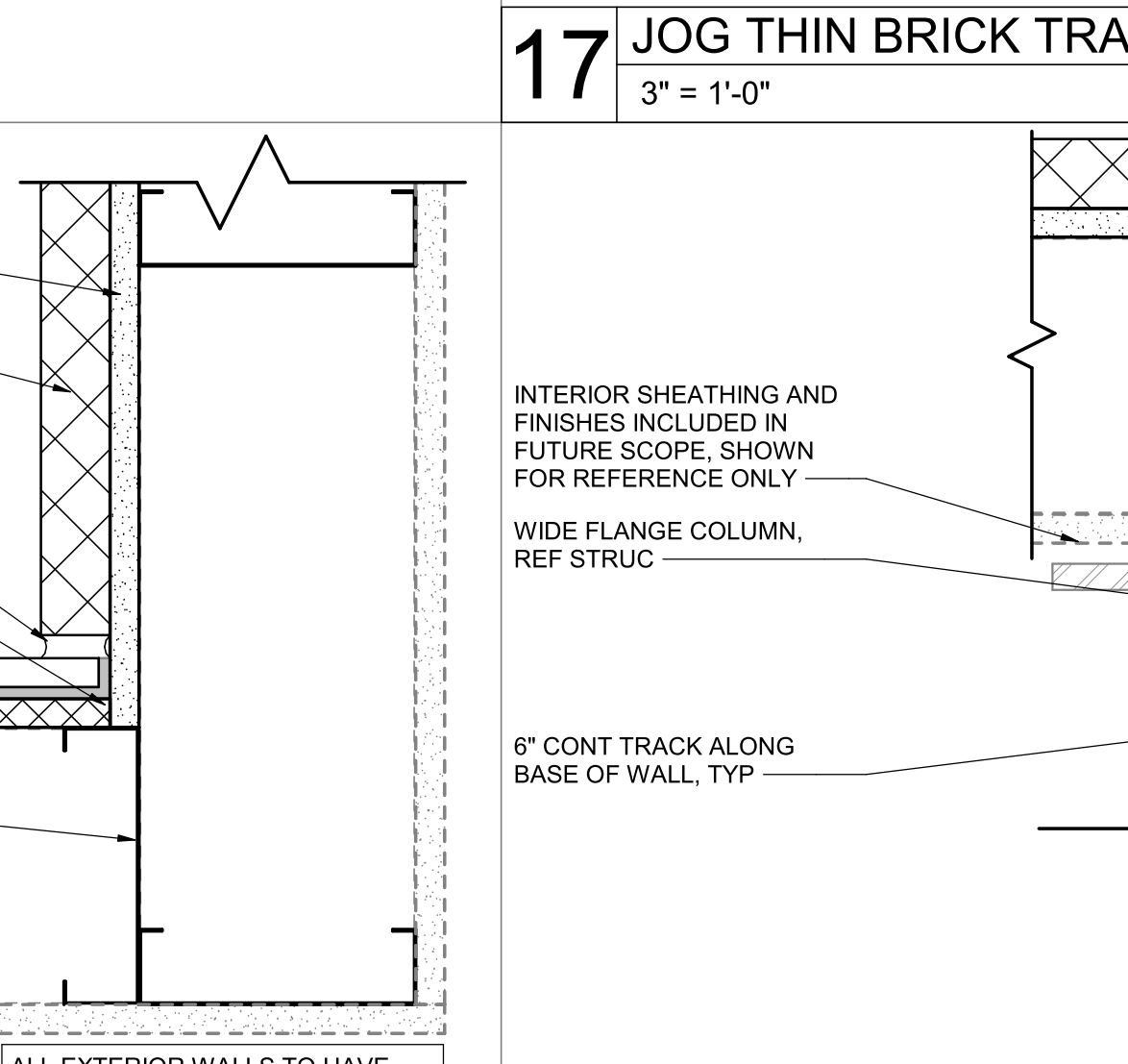
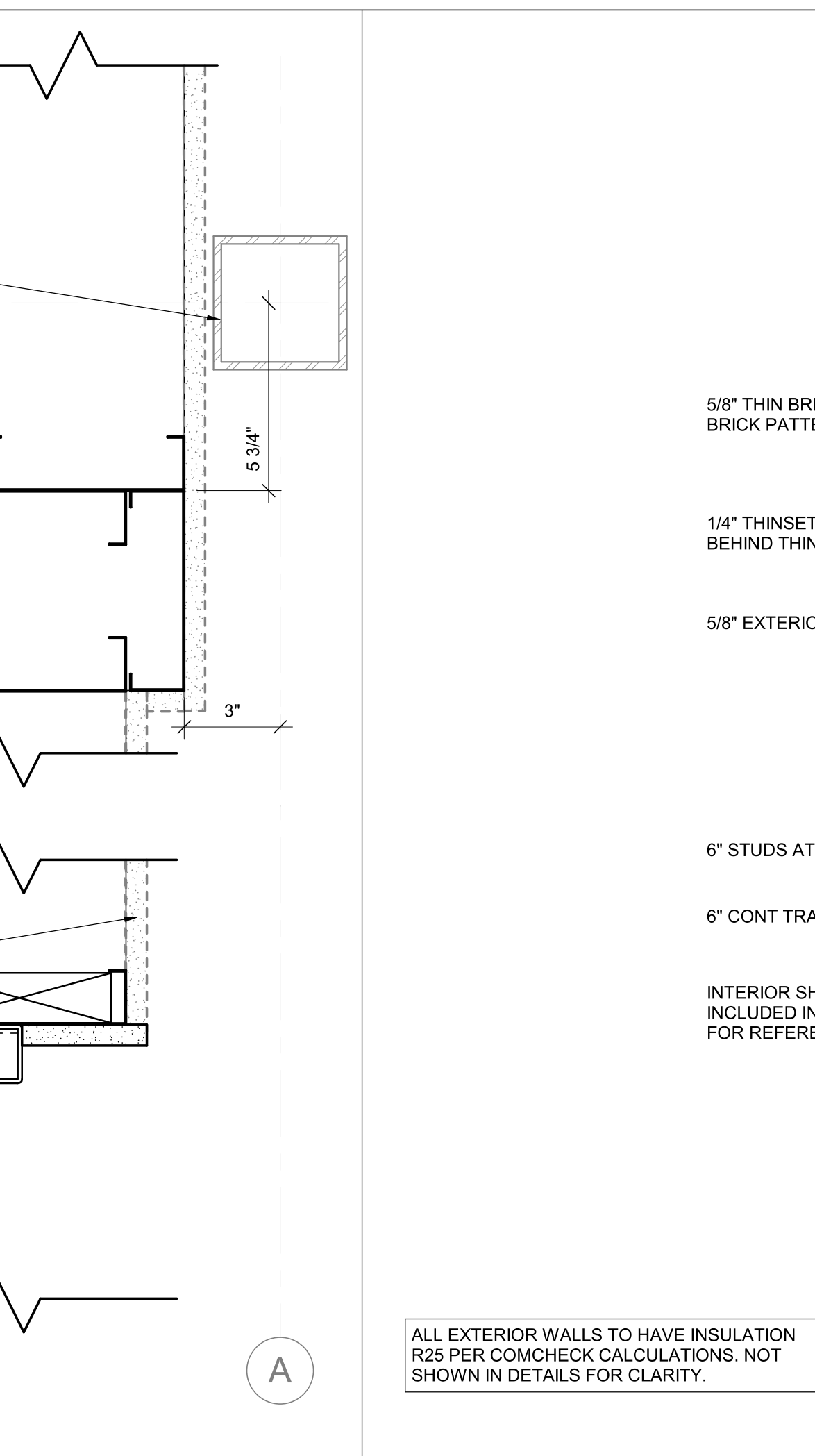
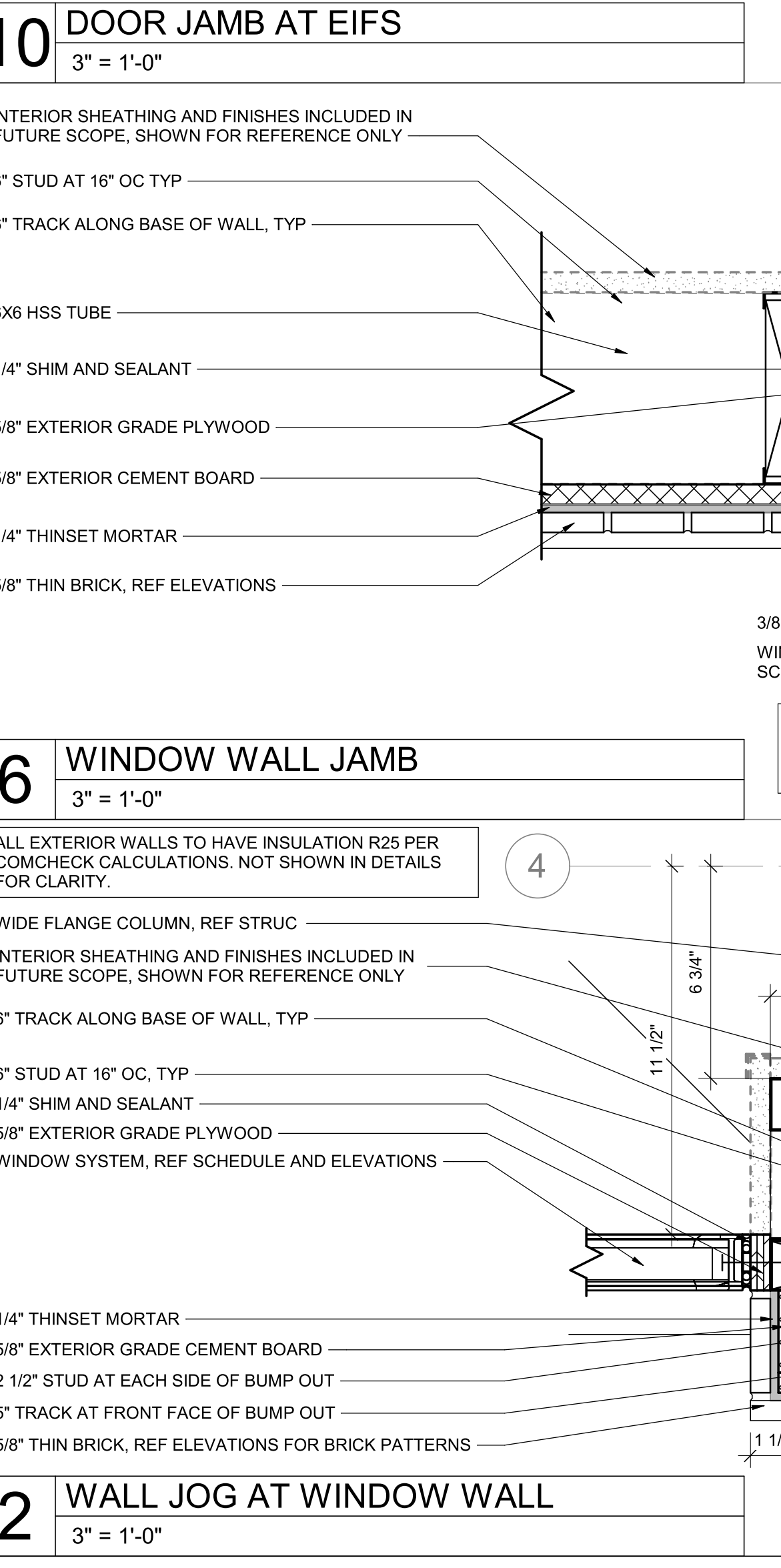
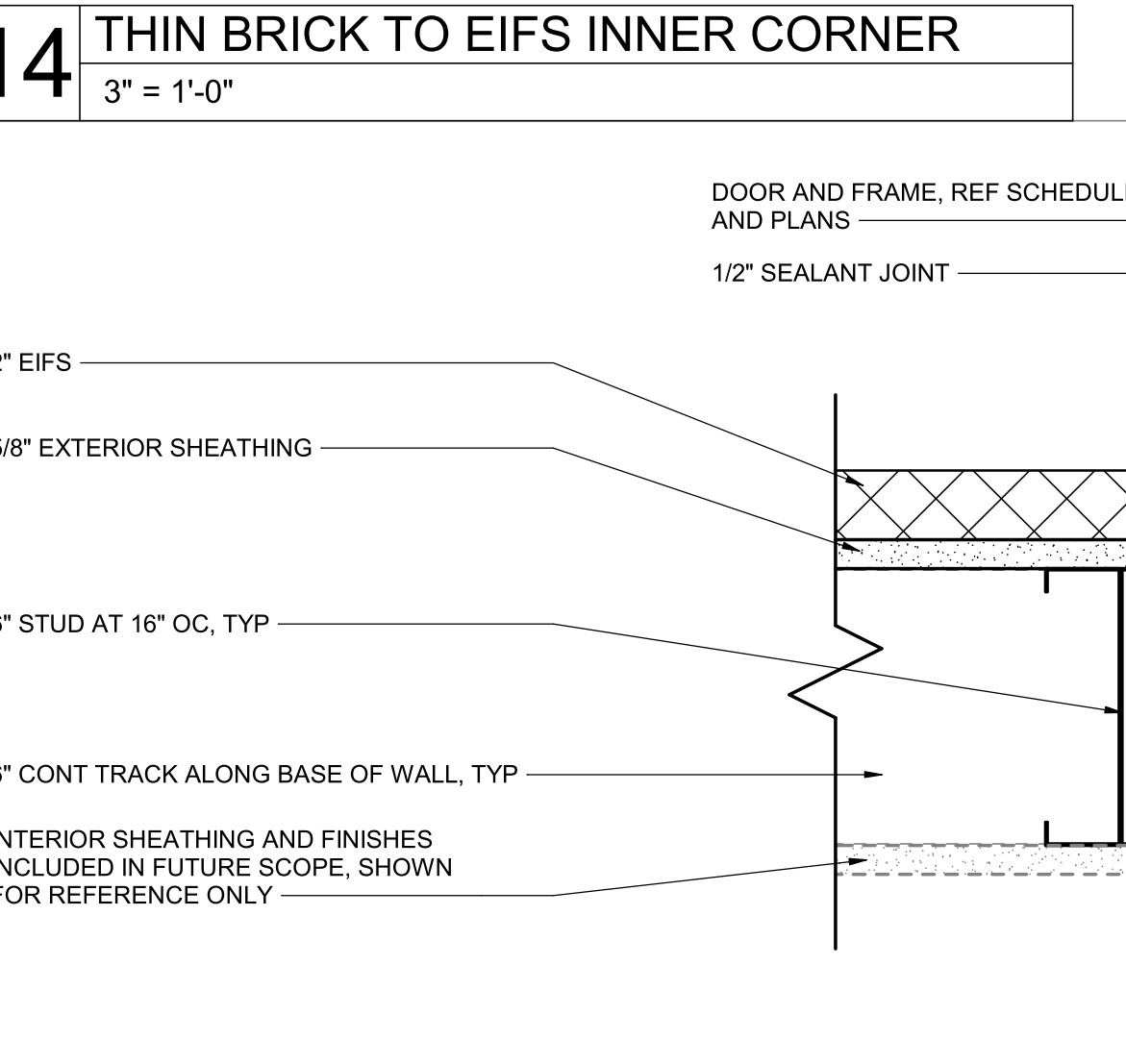
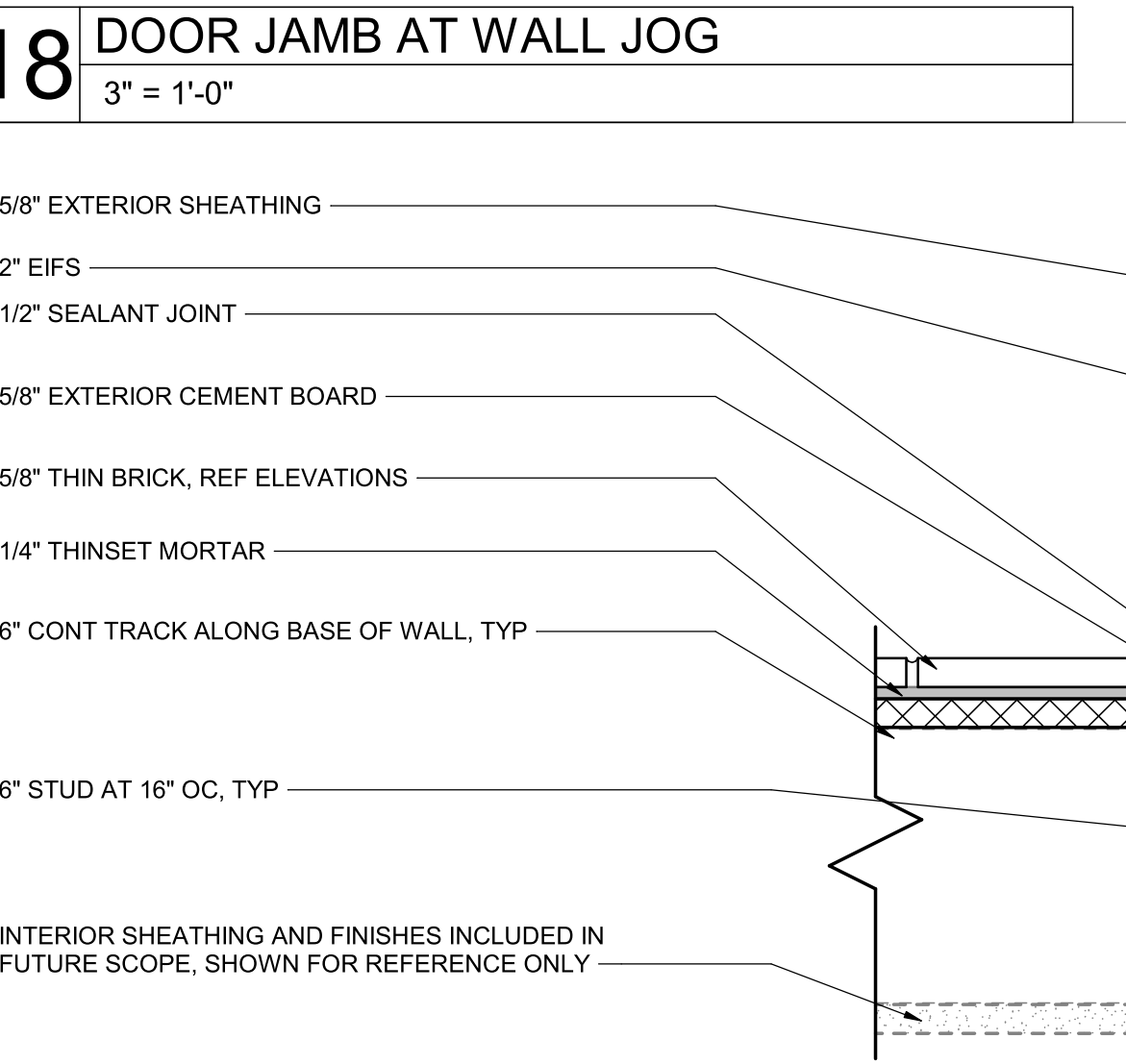
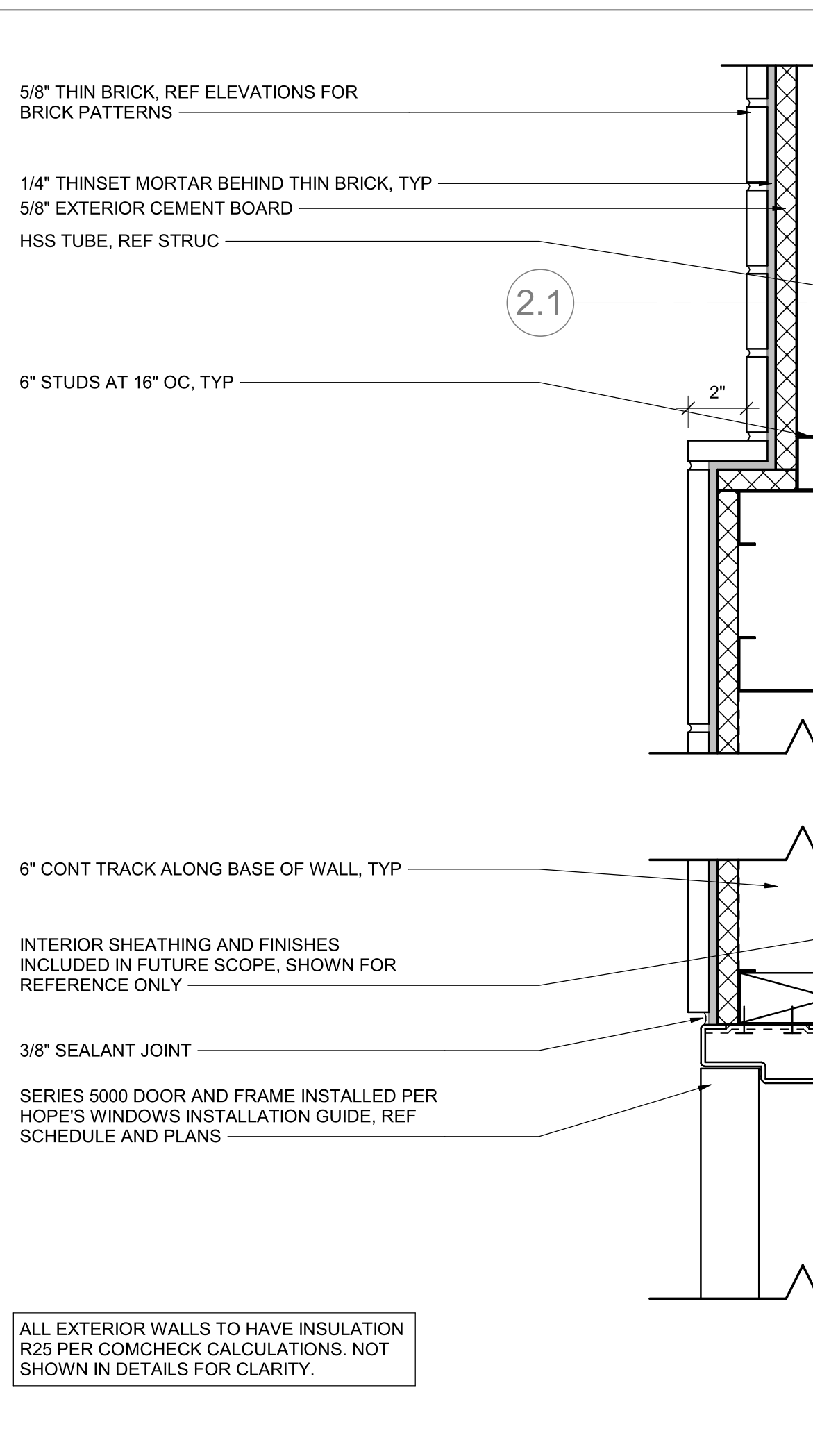
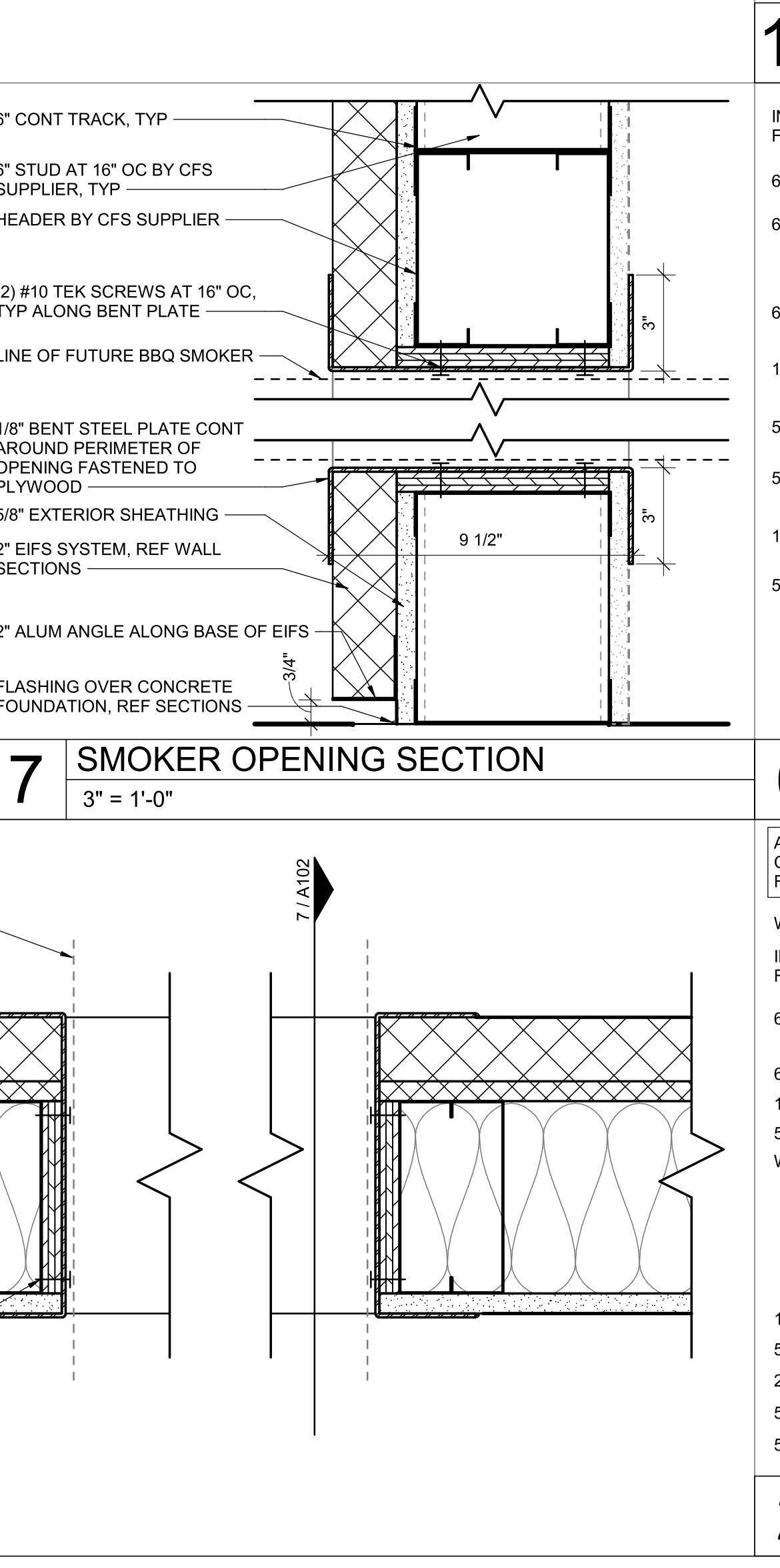
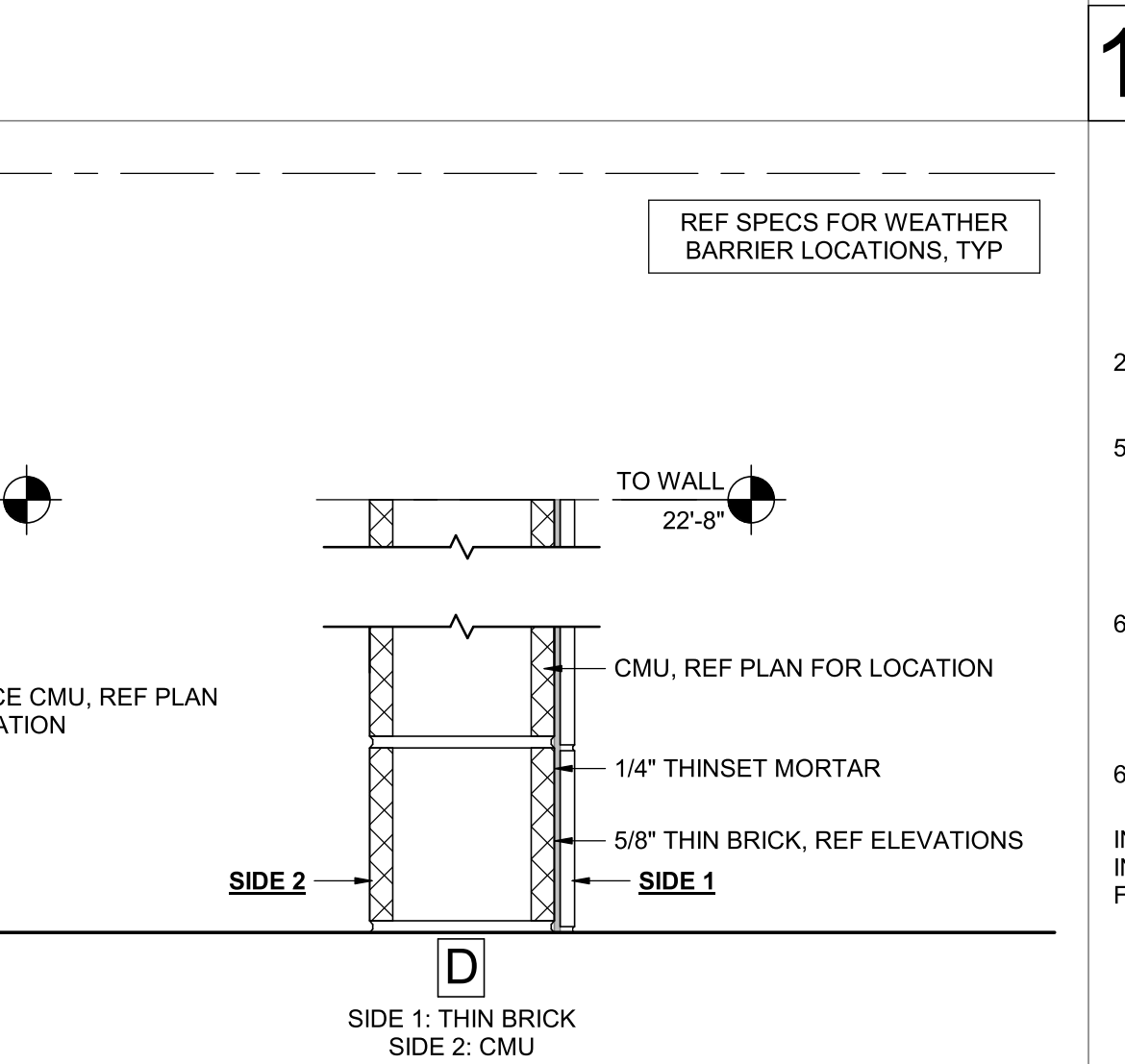
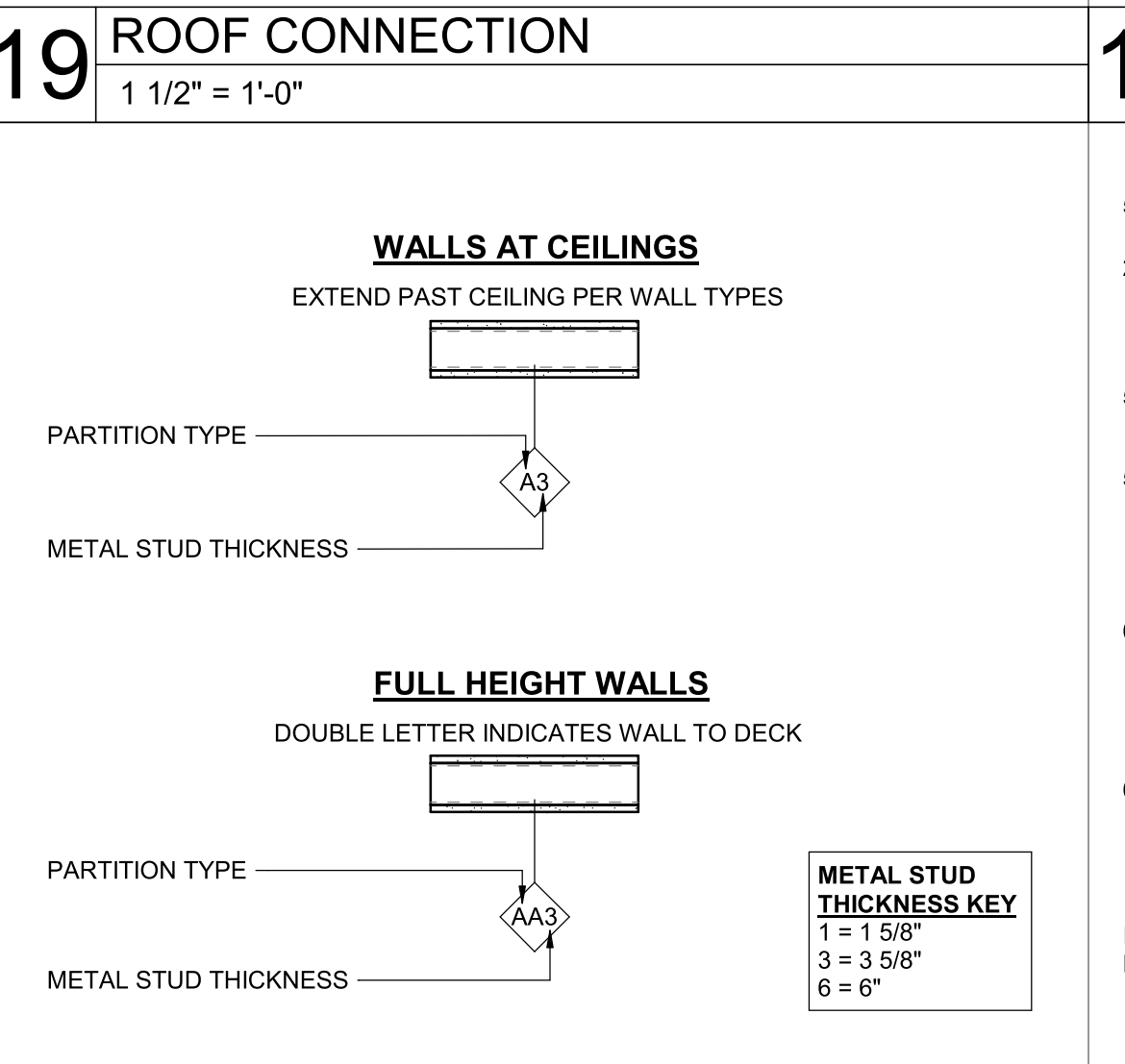
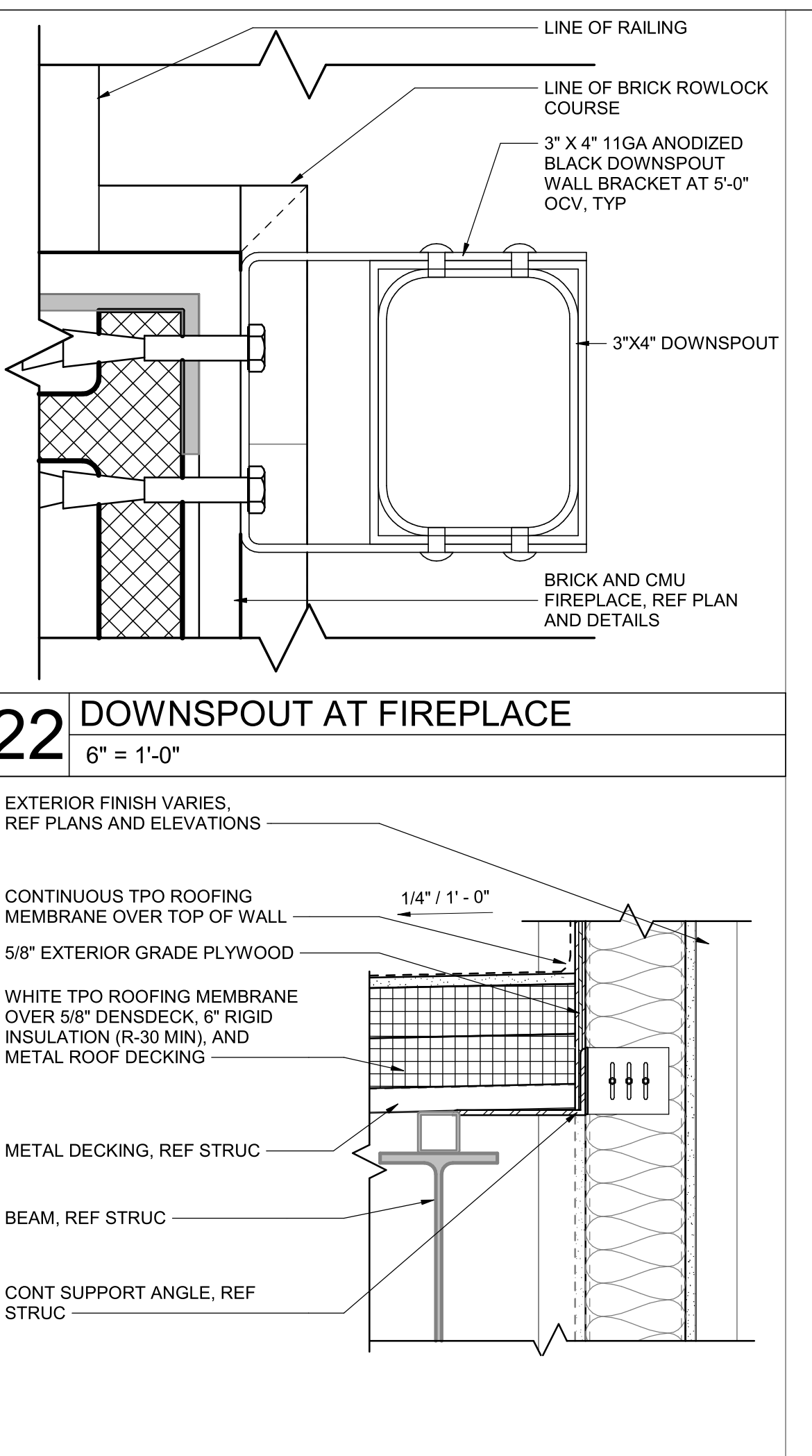
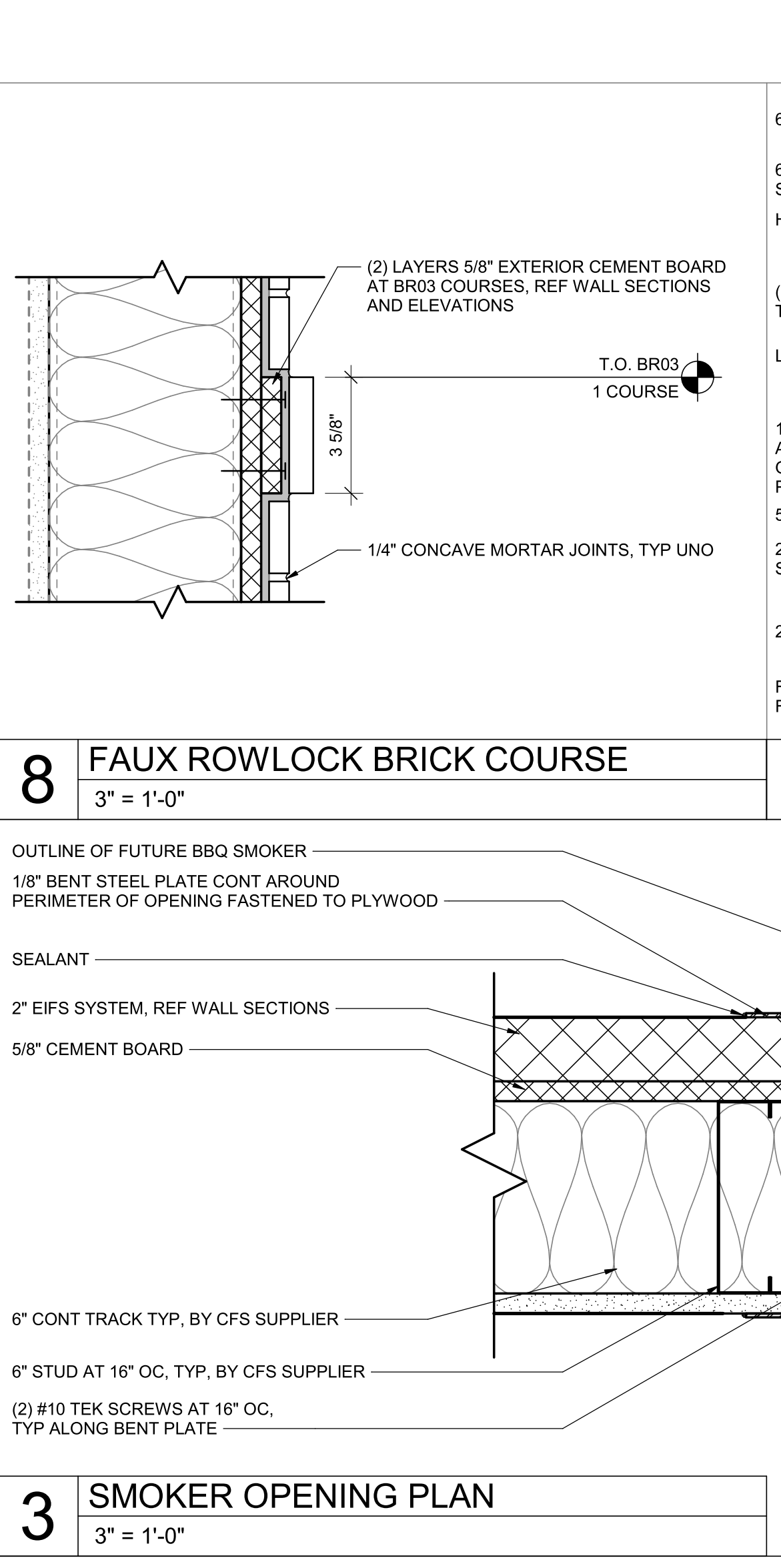
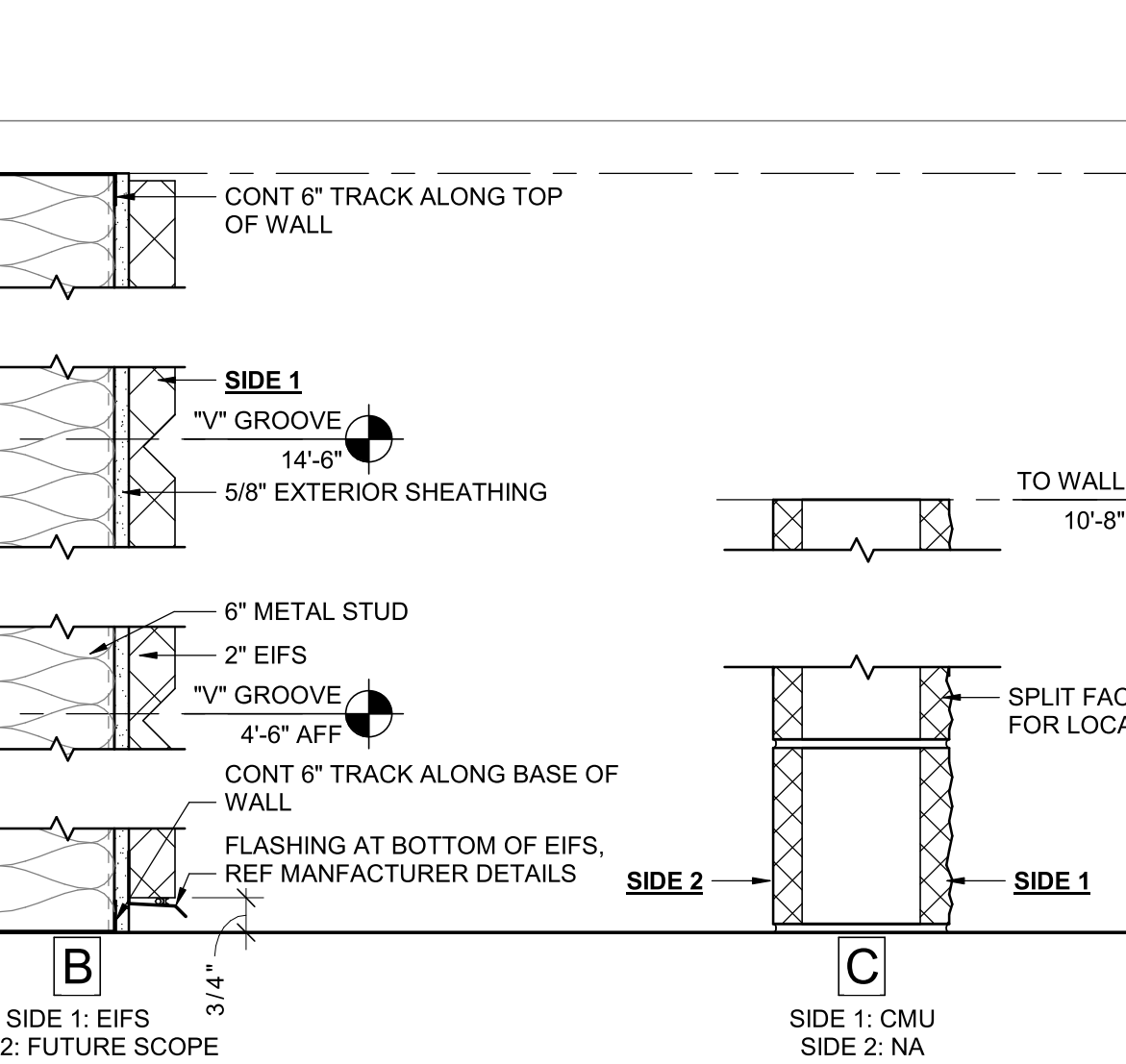
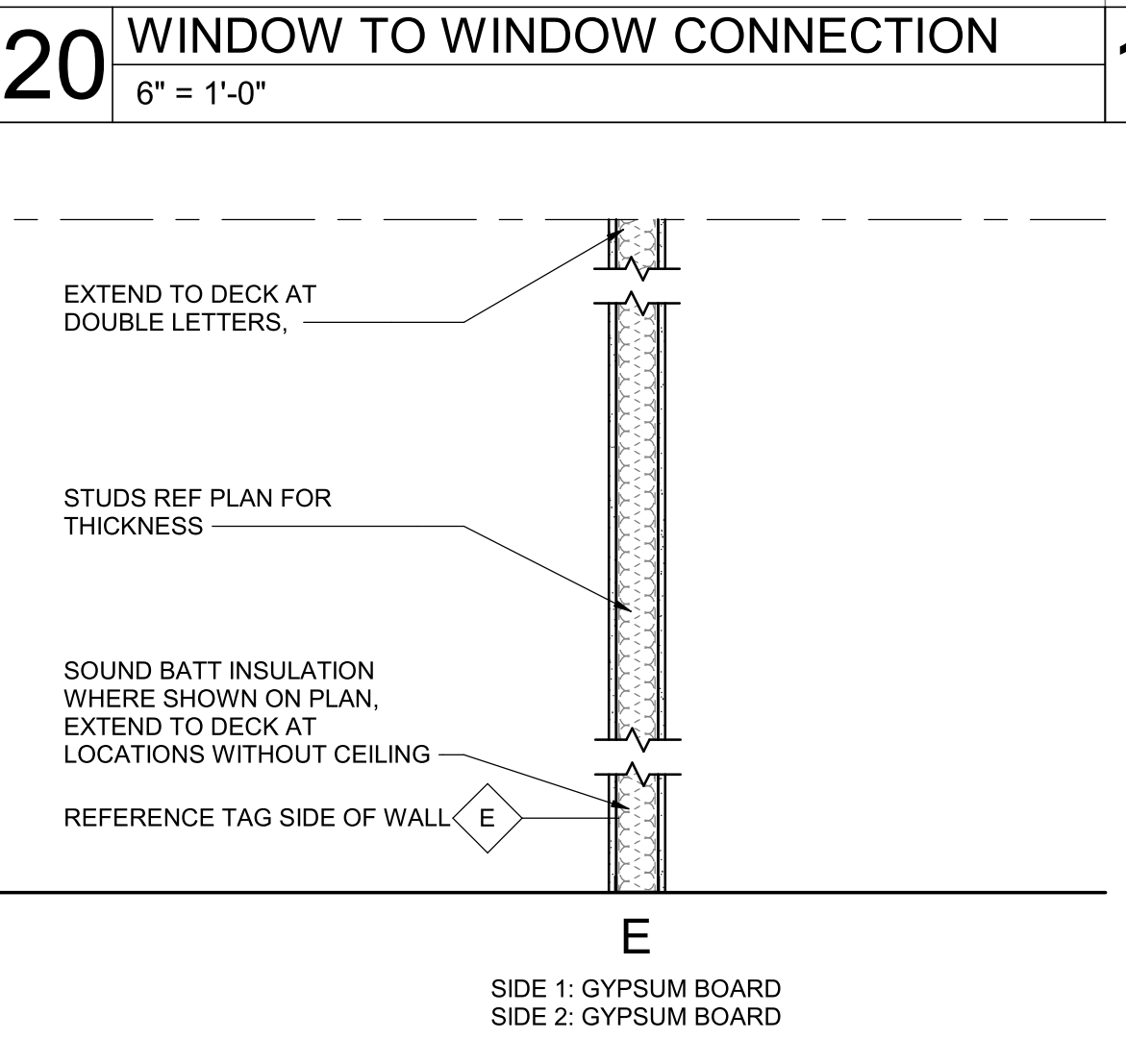
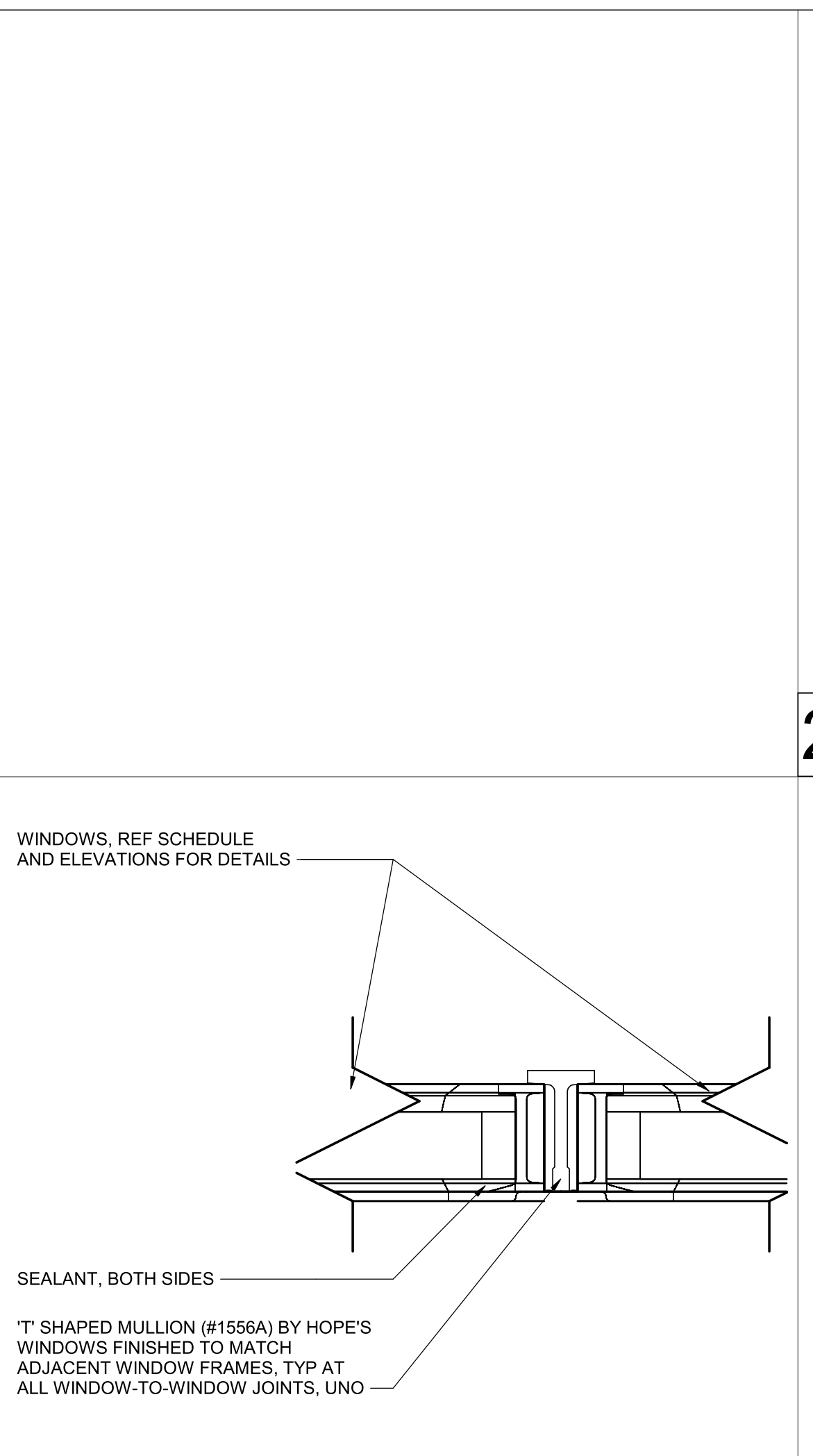
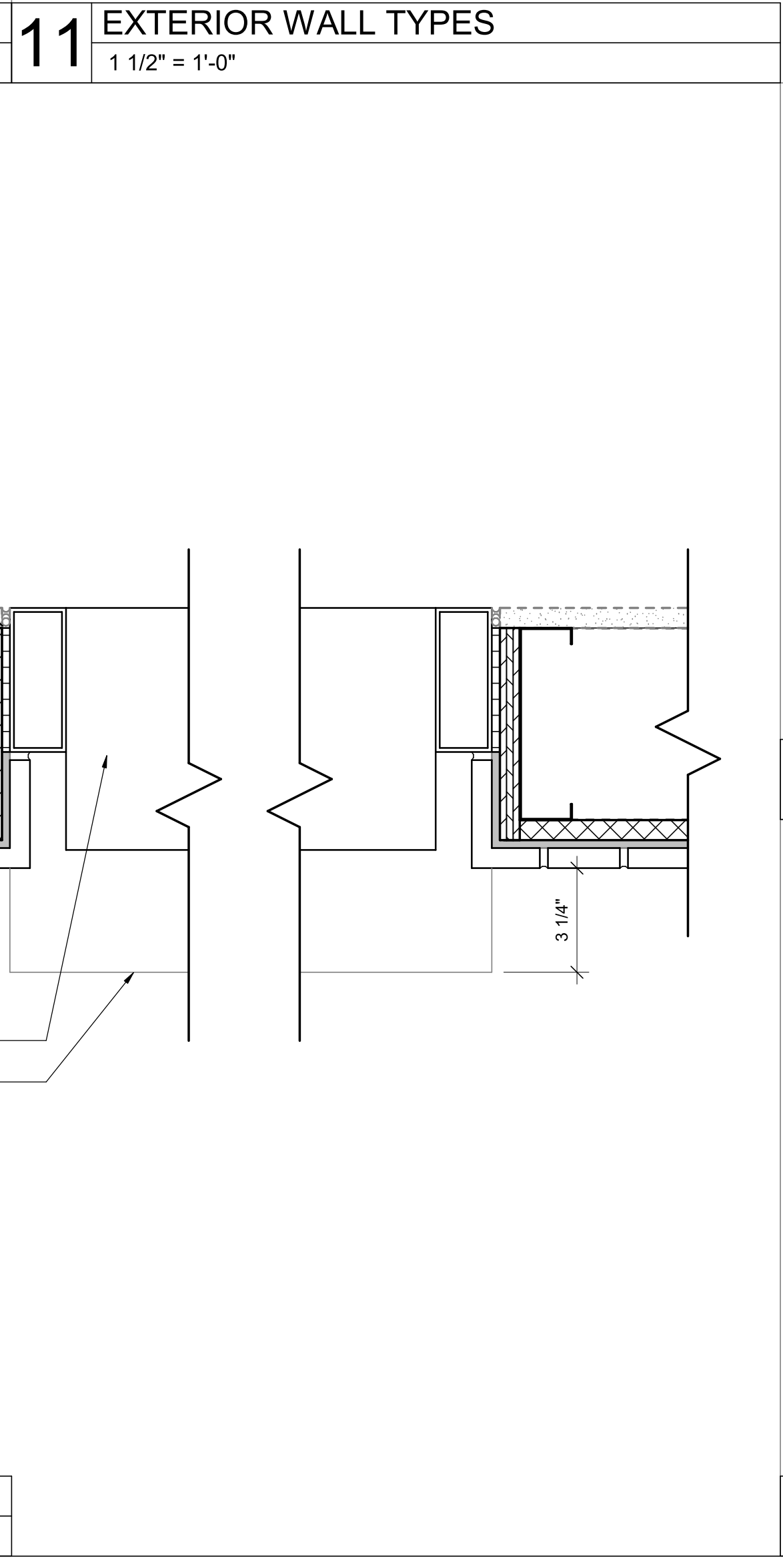
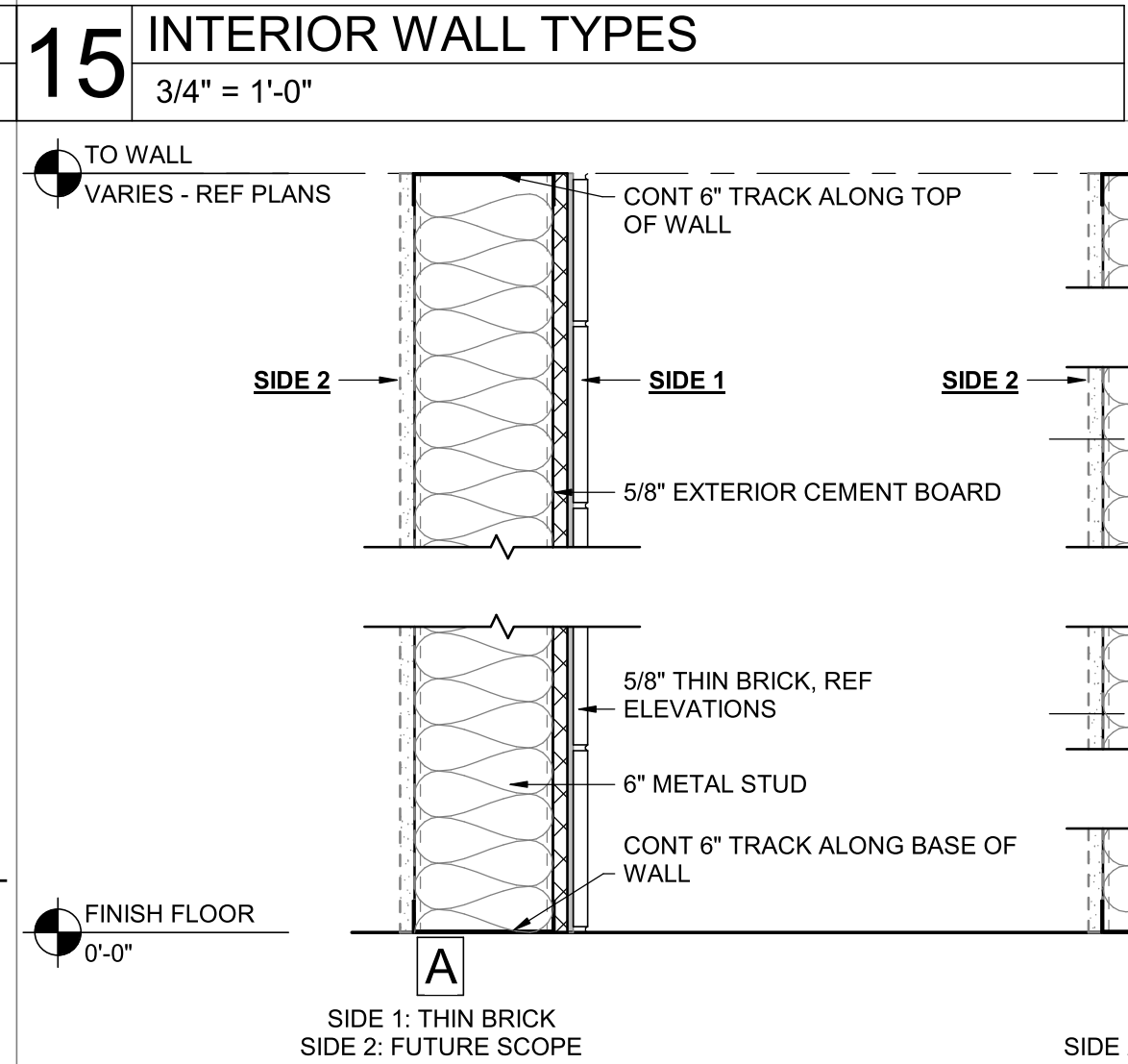
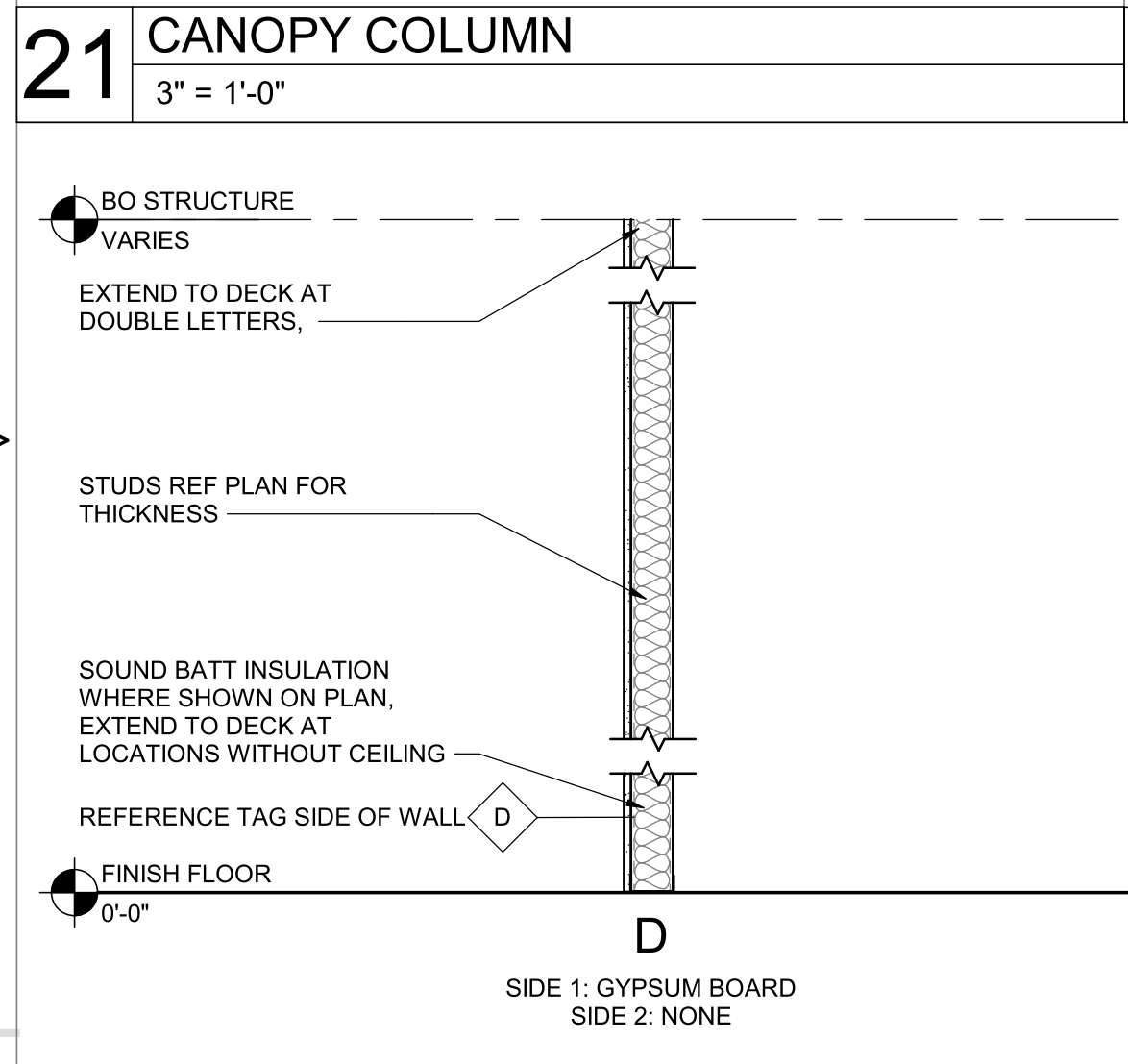
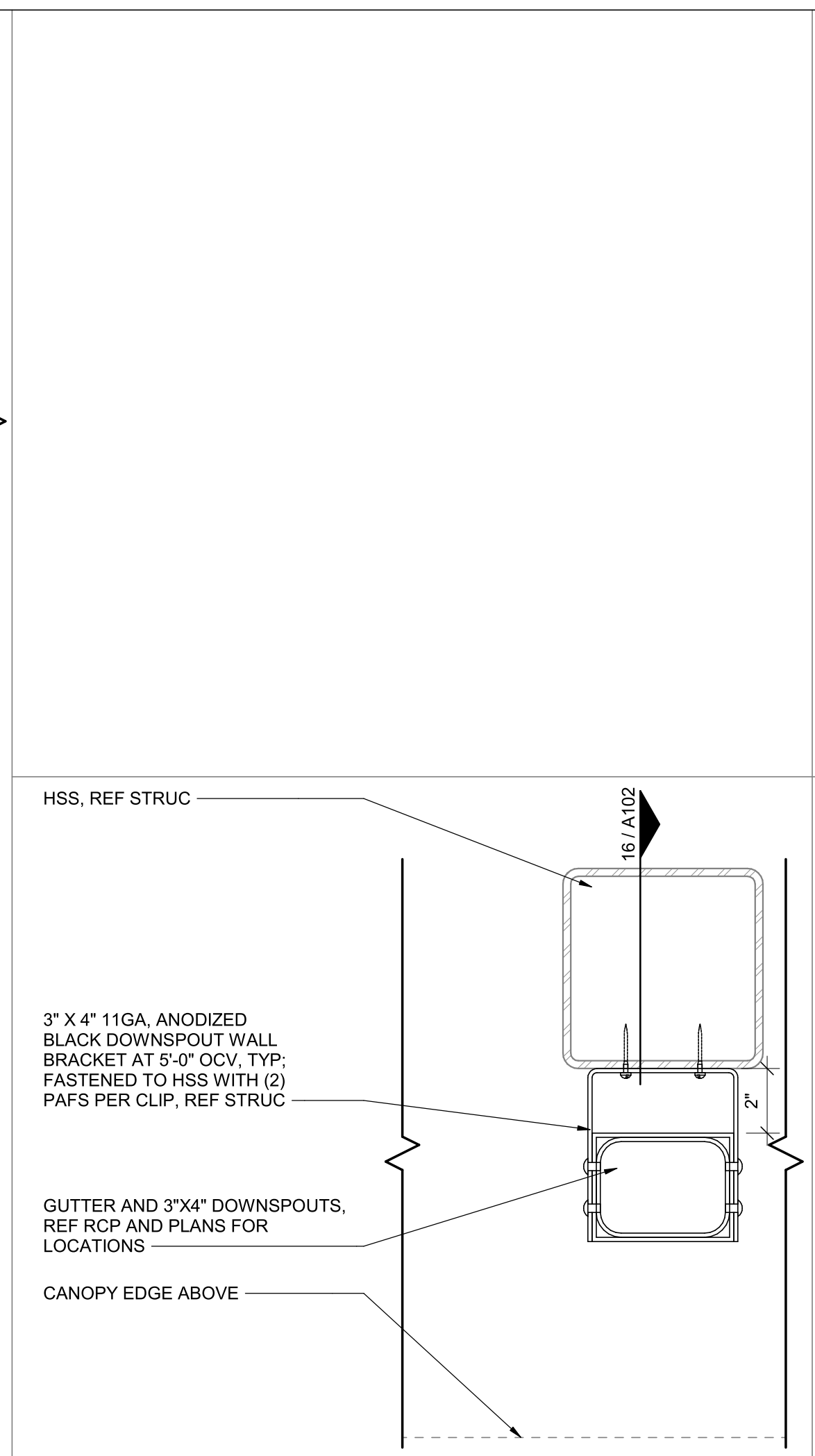
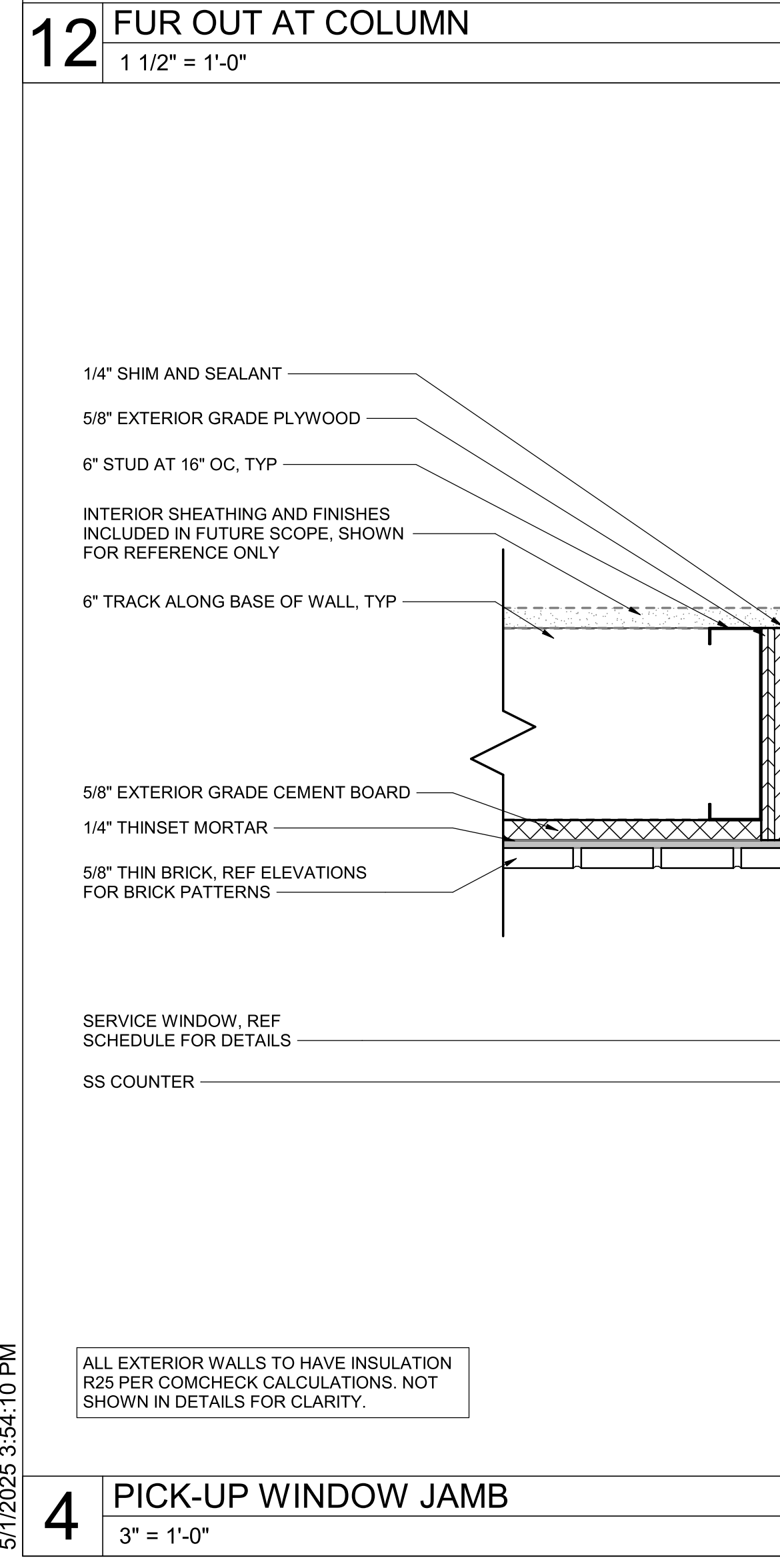
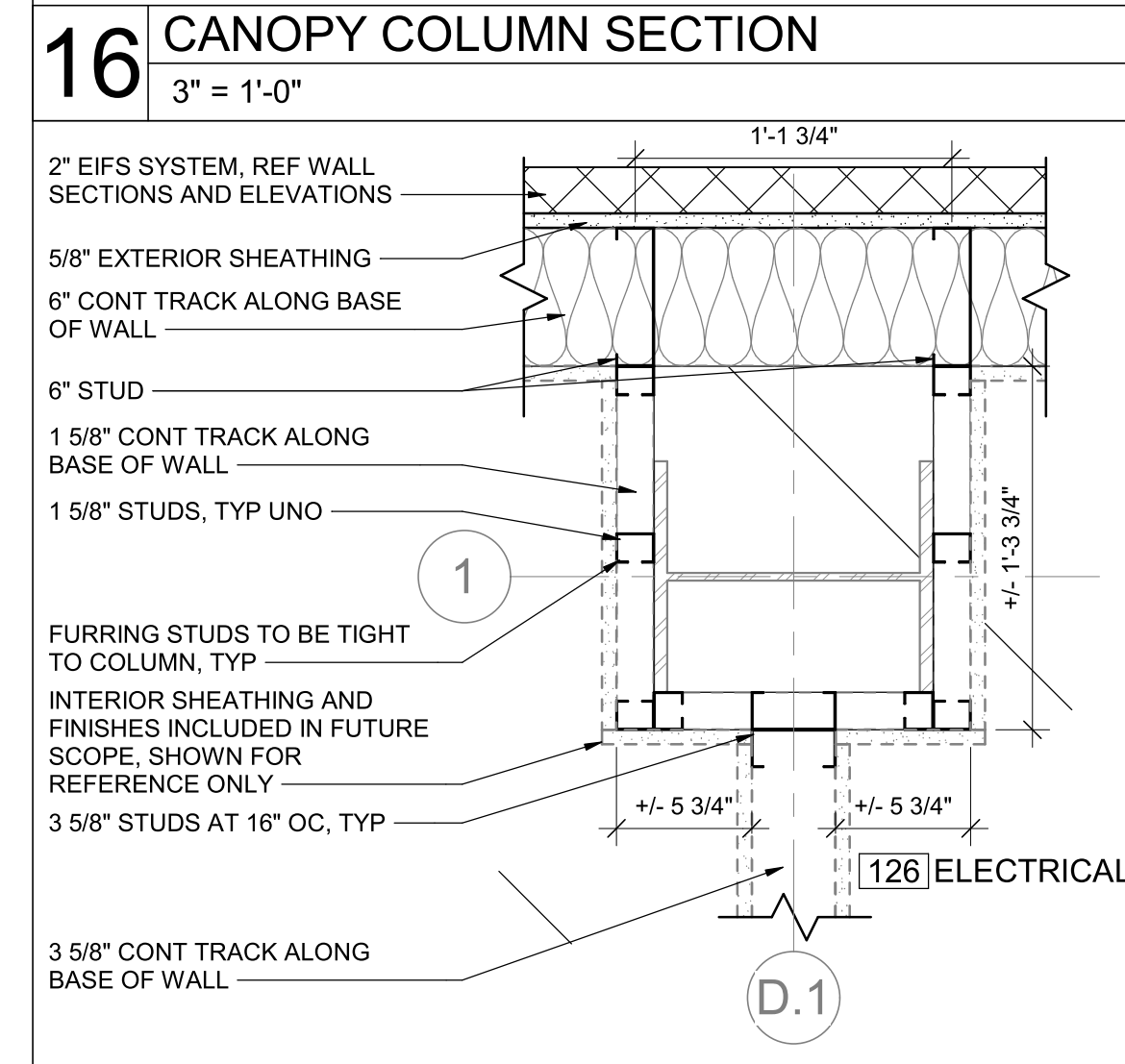
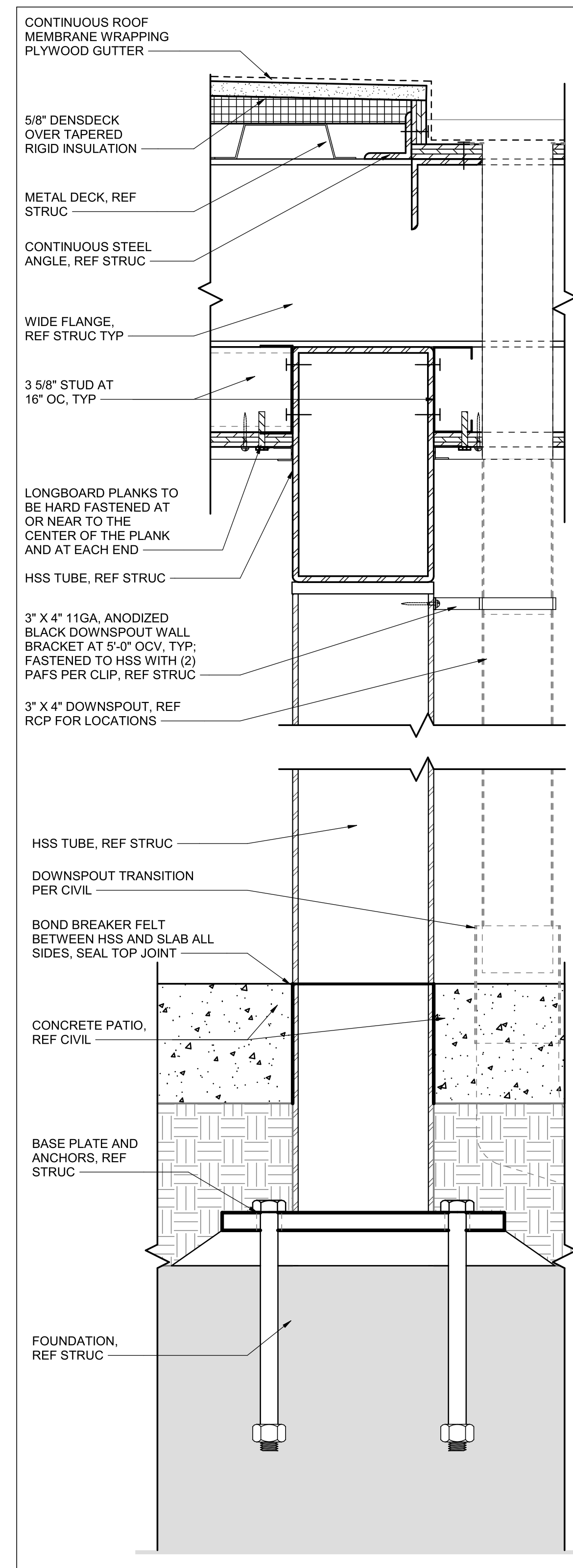
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ISSUES AND REVISIONS		
NUMBER	DATE	DESCRIPTION
1	ISSUES	ORIGINAL ISSUE

SHEET NAME  
**PARTITION PLAN**  
 SHEET NUMBER

**A101**

5/1/2025 3:54:07 PM  
**1 PARTITION PLAN**  
 1/4" = 1'-0"



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CONSULTANT  
 CLIENT  
 PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER: 62500002  
 PROJECT MANAGER: TM  
 DRAWN BY: ND  
 CHECKED BY: JTB  
 PROFESSIONAL SEAL

5/1/2025 3:54:10 PM

ALL EXTERIOR WALLS TO HAVE INSULATION R25 PER COMCHECK CALCULATIONS. NOT SHOWN IN DETAILS FOR CLARITY.

5/1/2025

MARK SCHUBBER  
 NUMBER 2-807910824  
 5/1/2025

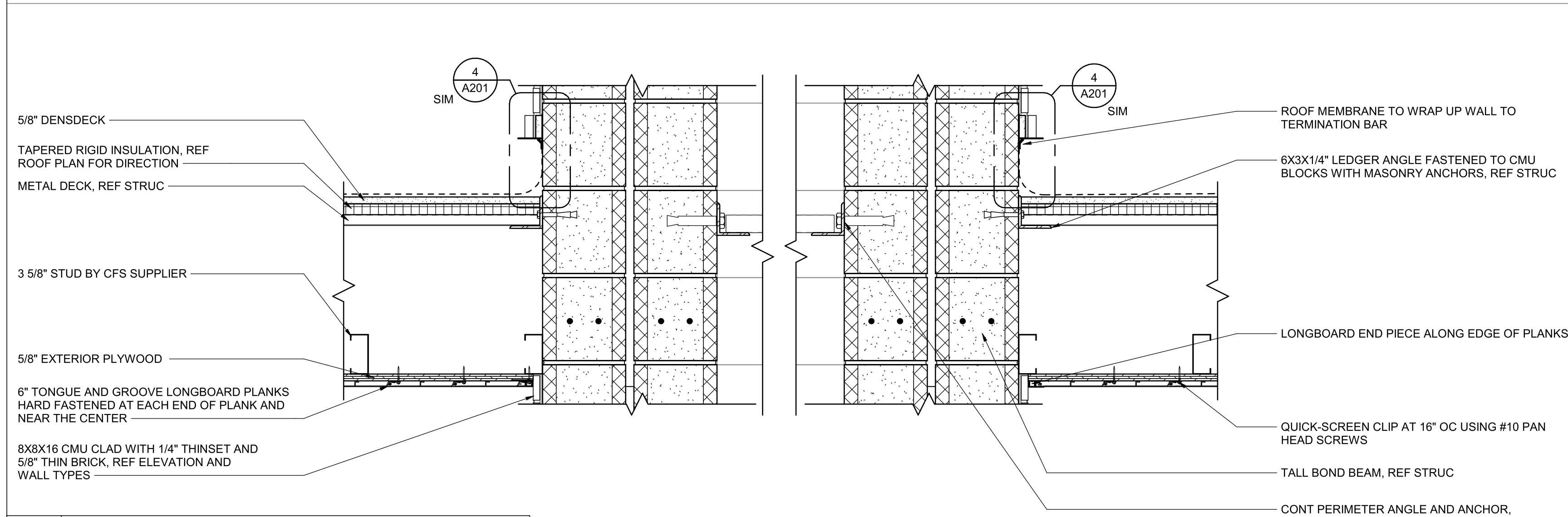
ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
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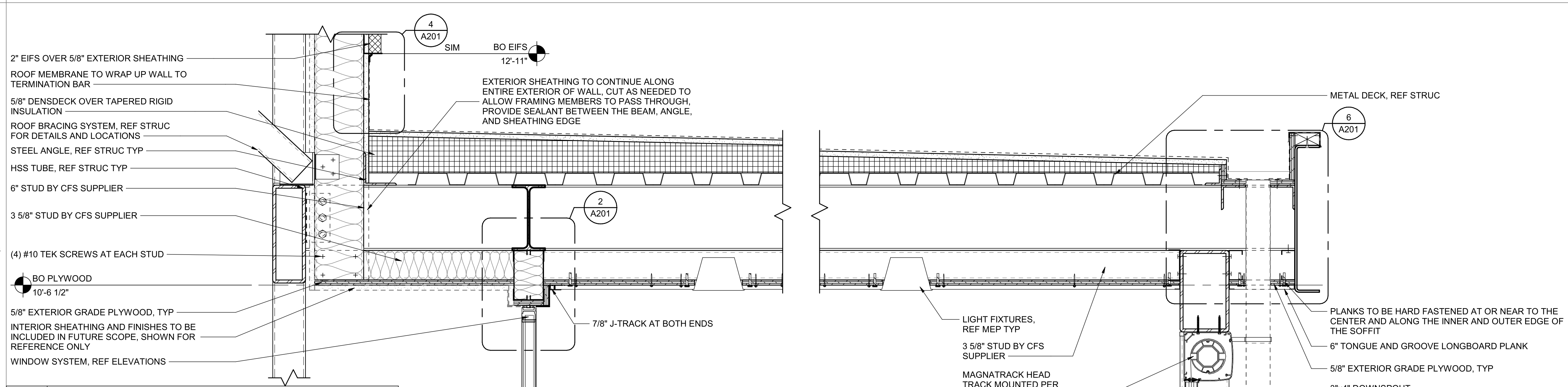
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**PARTITION DETAILS**  
 SHEET NUMBER

A102

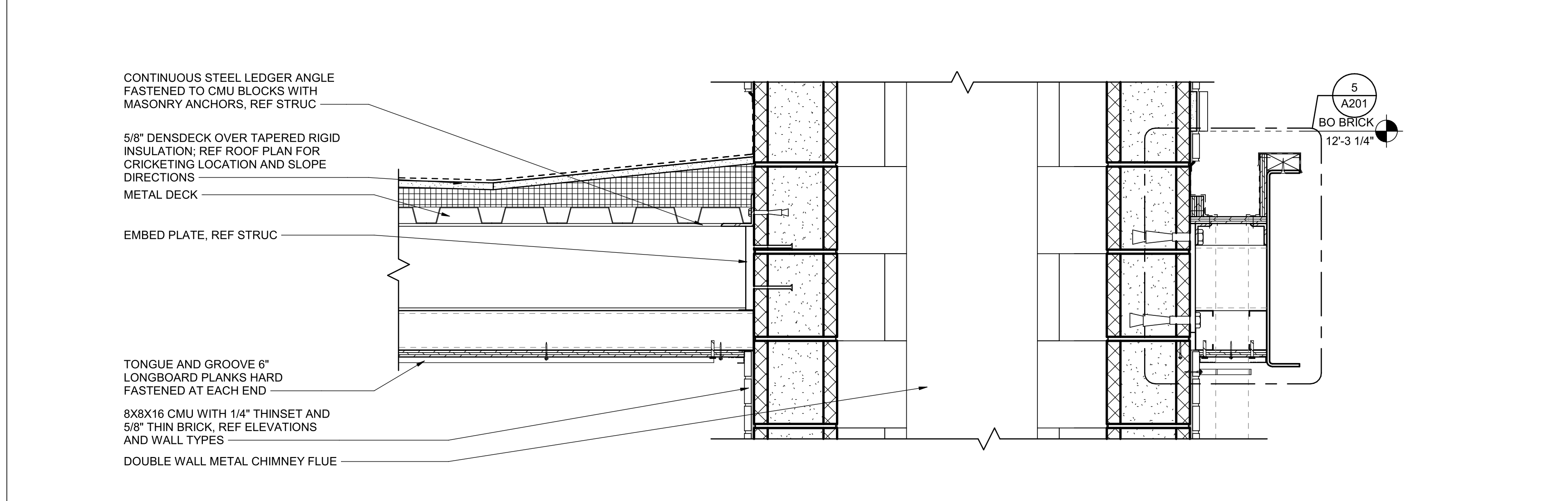
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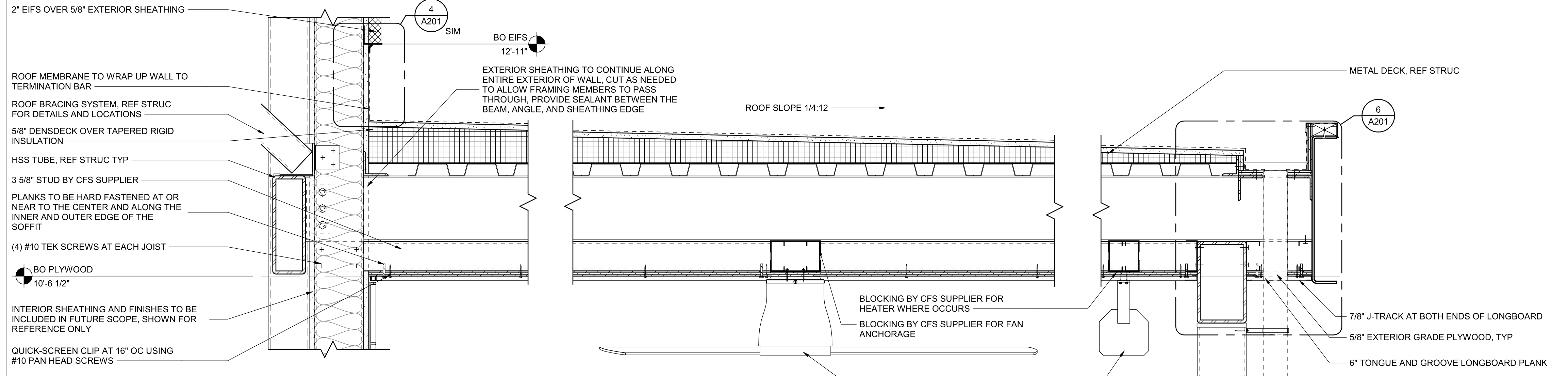
**7 CANOPY AT FIREPLACE 02**  
 1 1/2" = 1'-0"



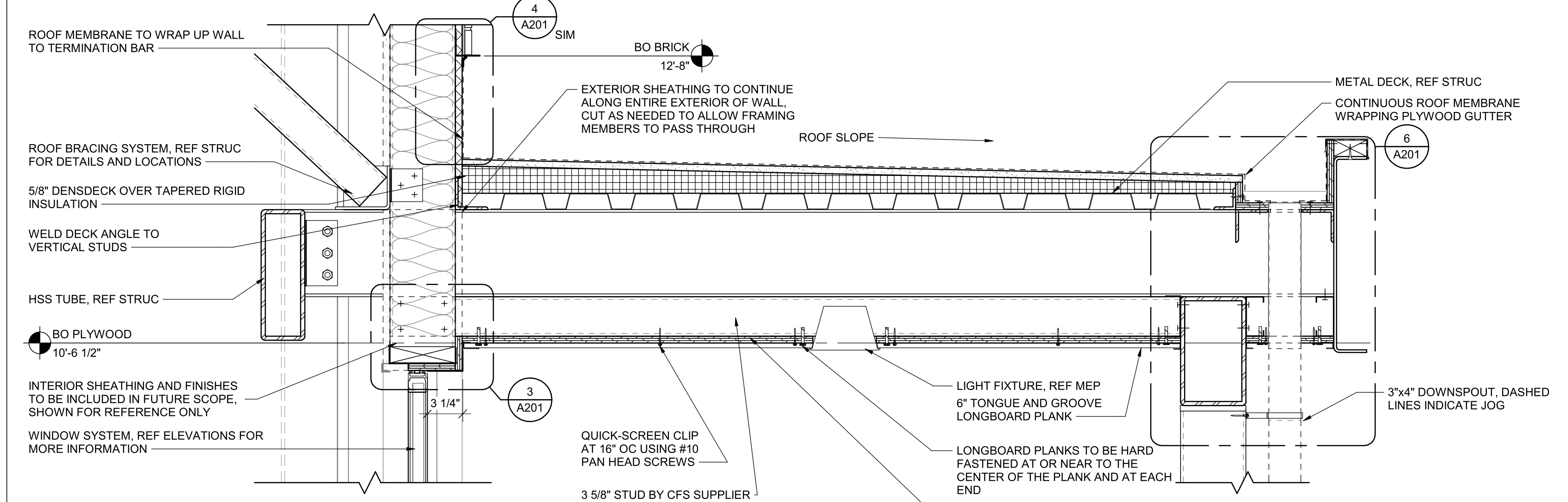
**6 CANOPY AT DINING BUMP OUT**  
 1 1/2" = 1'-0"



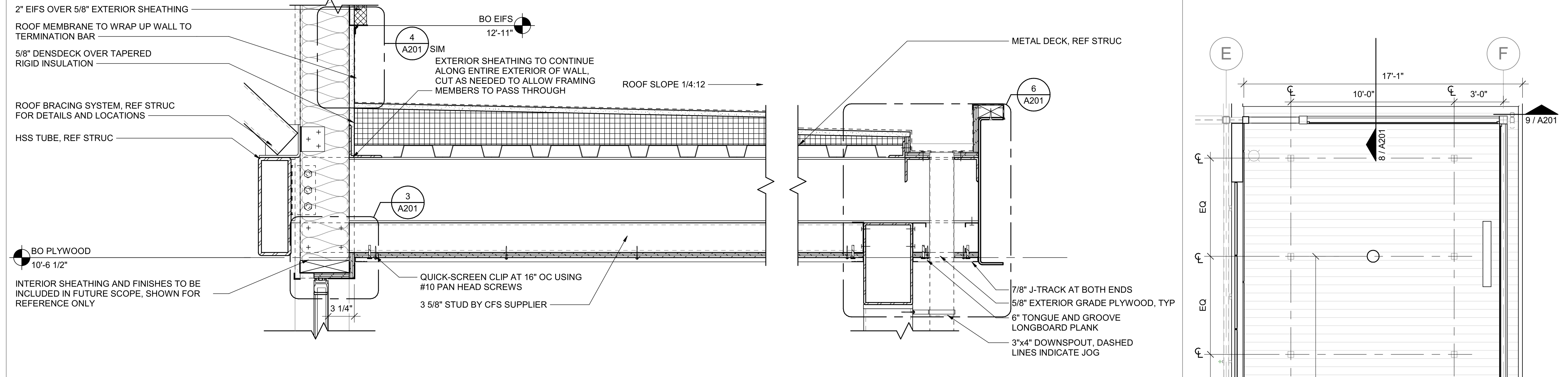
**5 CANOPY AT FIREPLACE 01**  
 1 1/2" = 1'-0"



**4 CANOPY AT THIN BRICK/EIFS**  
 1 1/2" = 1'-0"



**3 ENTRY CANOPY AT WINDOW WALL**  
 1 1/2" = 1'-0"

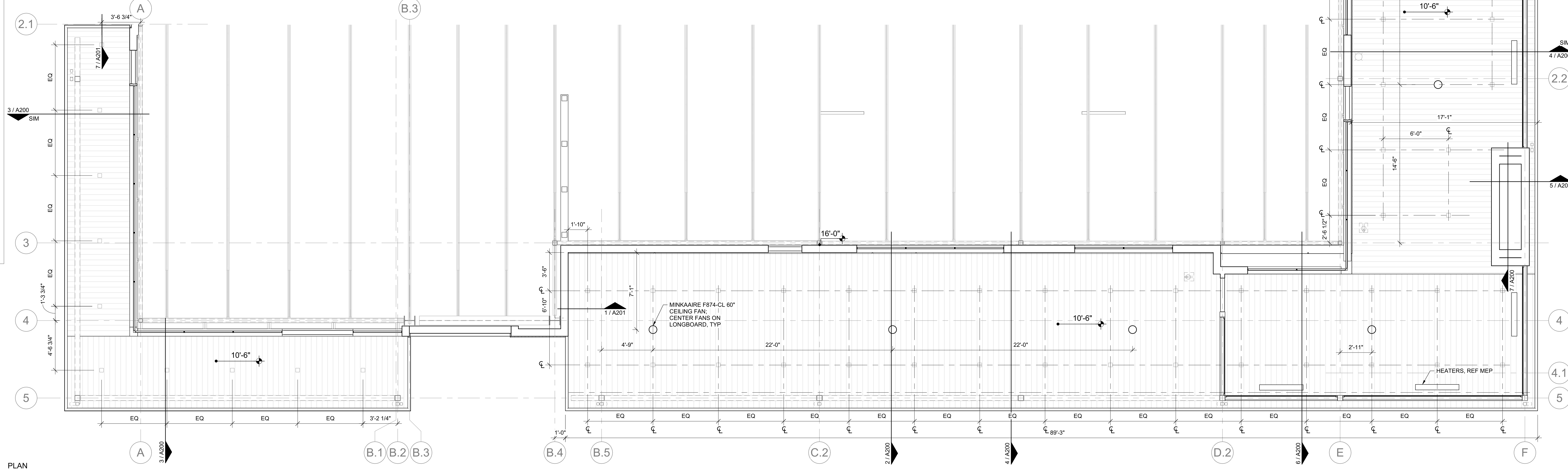
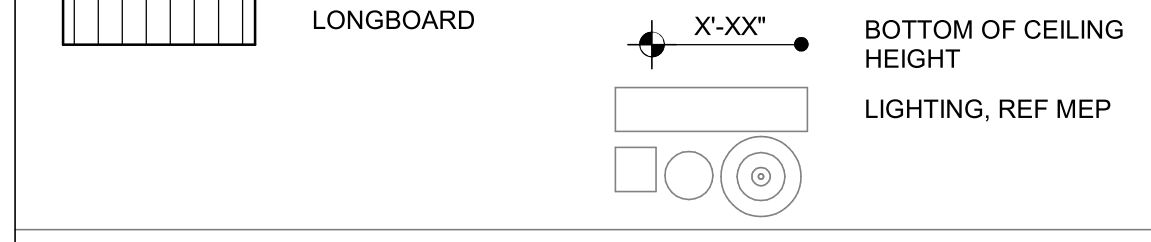


**2 CANOPY AT WINDOW WALL**  
 1 1/2" = 1'-0"

**SHEET NOTES**

- REFERENCE ELECTRICAL FOR LIGHTING LAYOUT AND SPECS, SHOWN FOR REFERENCE ONLY
- REMOVE ALL STICKERS OR TAGS ON OVERHEAD UTILITIES, UNLESS RESTRICTED BY CODE OR INDICATING WARRANTY AND CERTIFICATION INFORMATION
- DIMENSIONS SHOWN TO/FROM FACE OF FINISH, UNDO
- WOOD HATCH DIRECTION INDICATES PLANK AND GRAIN DIRECTION, COORDINATE WITH FINISH SCHEDULE
- CEILING JOISTS UNO:
  - A. SPANS UP TO 14'-0"
  - 16" OC JOIST SPACING
  - 80S162-43 (8'X1 S&P16GA)
  - LATERAL BRIDGING IS REQUIRED AT MID SPAN ONLY
  - B. SPANS UP TO 20'-0"
  - 16" OC JOIST SPACING
  - 80S162-24 (8'X1 S&P16GA)
  - LATERAL BRIDGING IS REQUIRED AT THIRD POINTS

**SYMBOLS LEGEND**



**1 REFLECTED CEILING PLAN**  
 1/4" = 1'-0"

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER: 62500002  
 PROJECT MANAGER: TM  
 DRAWN BY: ND  
 CHECKED BY: [Signature]  
 PROFESSIONAL SEAL



**ISSUES AND REVISIONS**

NUMBER	DATE	ISSUES	ORIGINAL	ISSUE

**ISSUES AND REVISIONS**

NUMBER	DATE	ISSUES	ORIGINAL	ISSUE

**CANOPY ENLARGED PLAN AND DETAILS**

**A200**

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER	62500002
PROJECT MANAGER	TM
DRAWN BY	ND
CHECKED BY	[Signature]
PROFESSIONAL SEAL	



5/1/2025

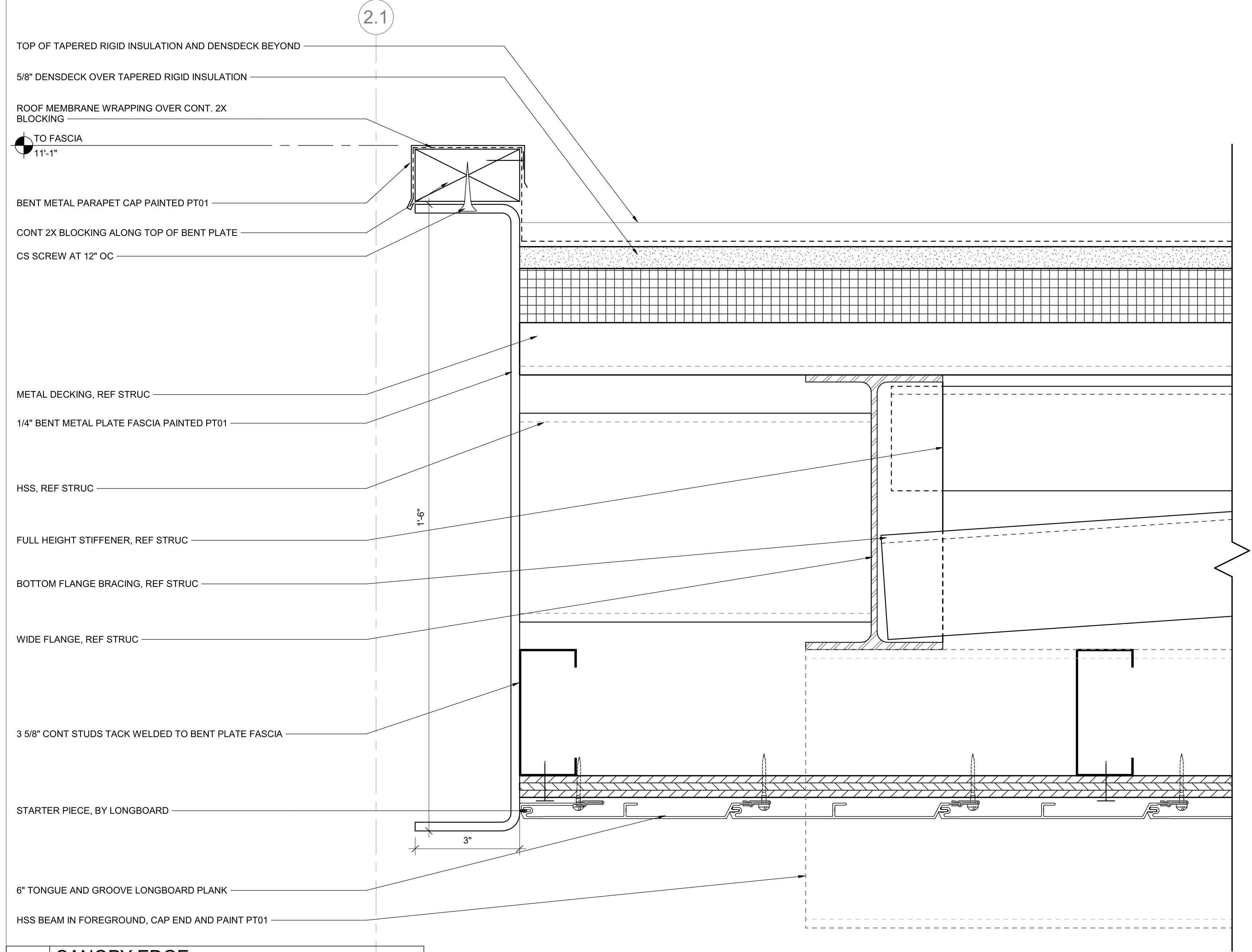
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**ISSUES AND REVISIONS**

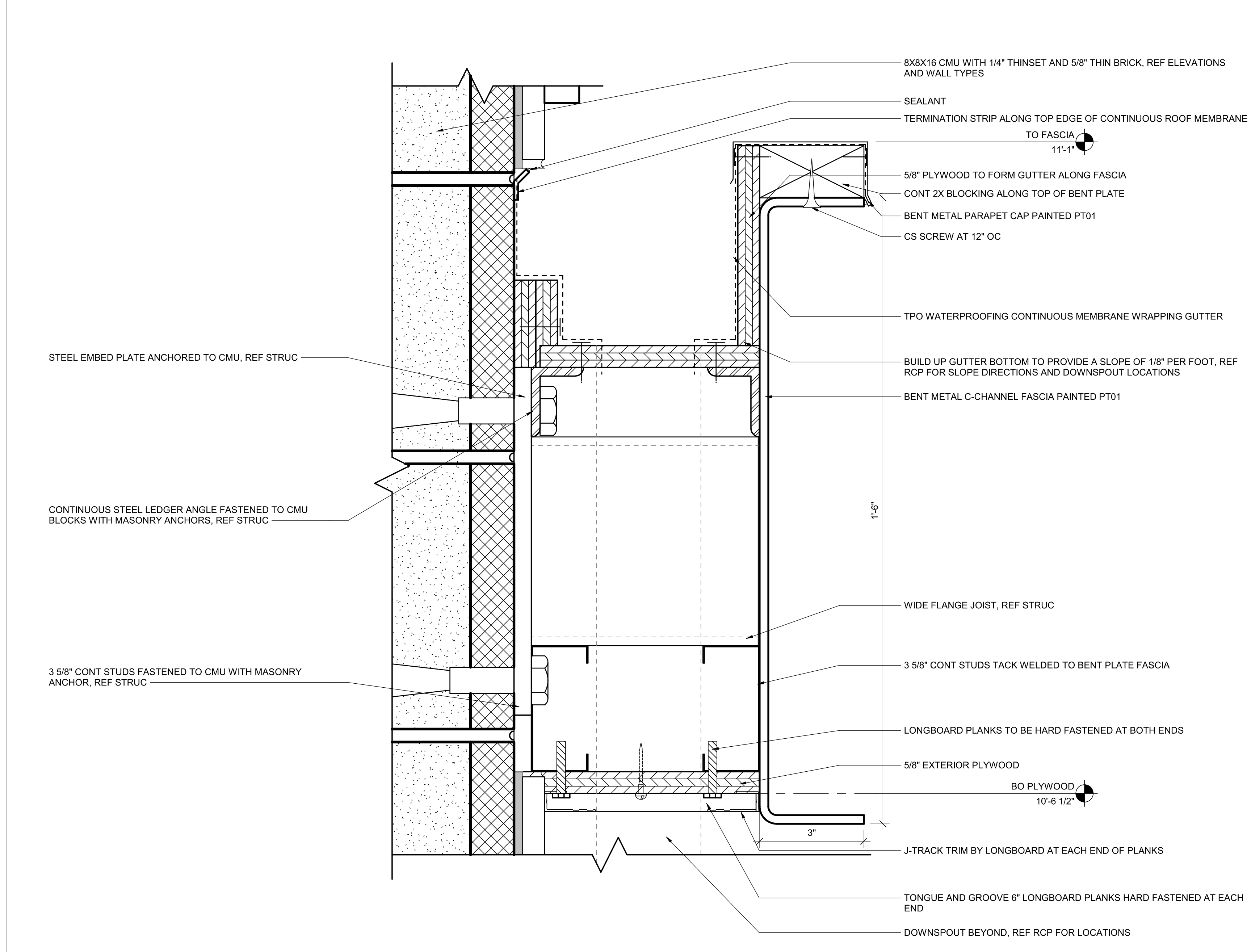
NUMBER	DATE	ISSUE	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME  
**CANOPY DETAILS**  
 SHEET NUMBER

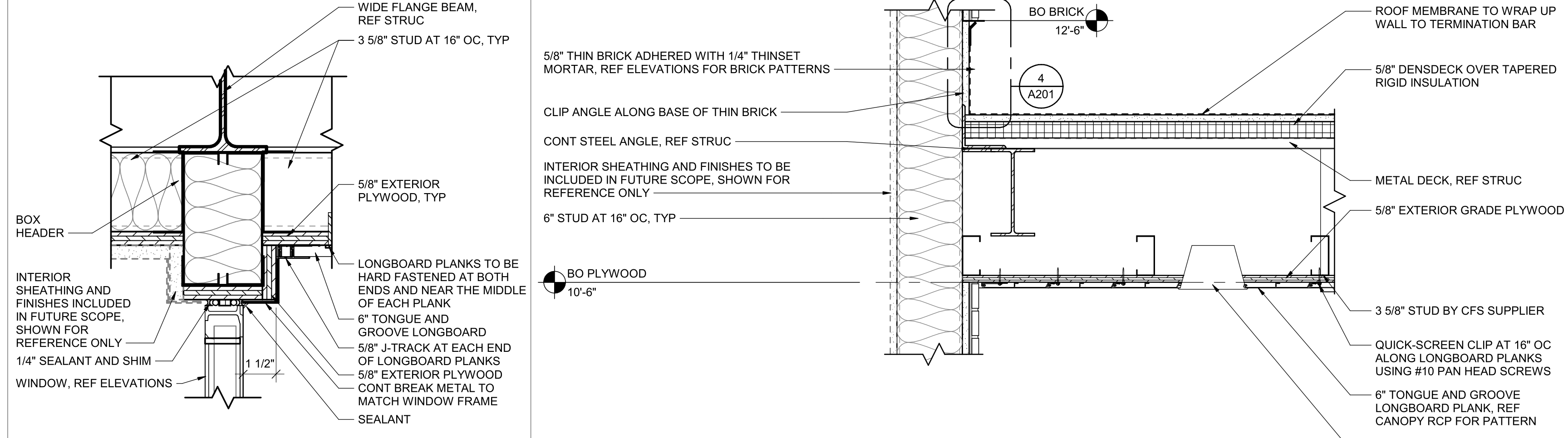
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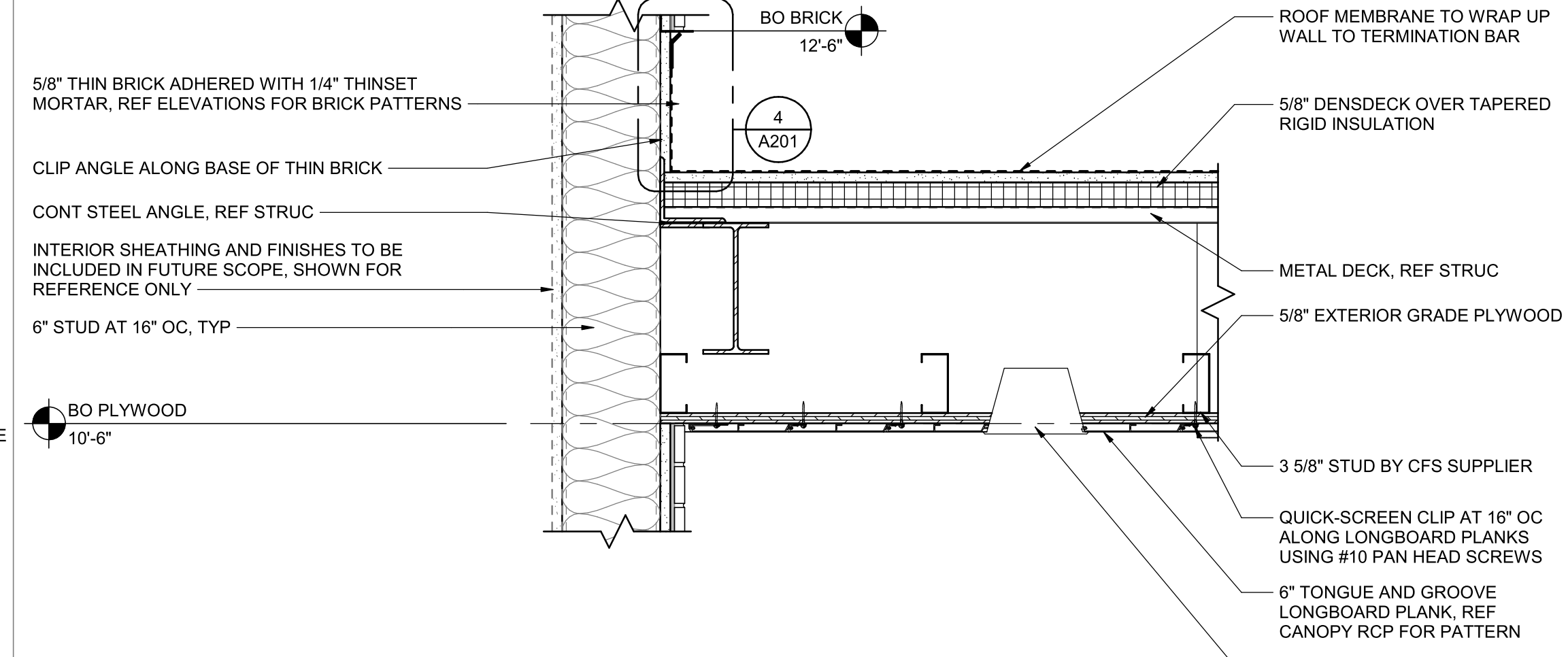
**7 CANOPY EDGE**  
 6" = 1'-0"



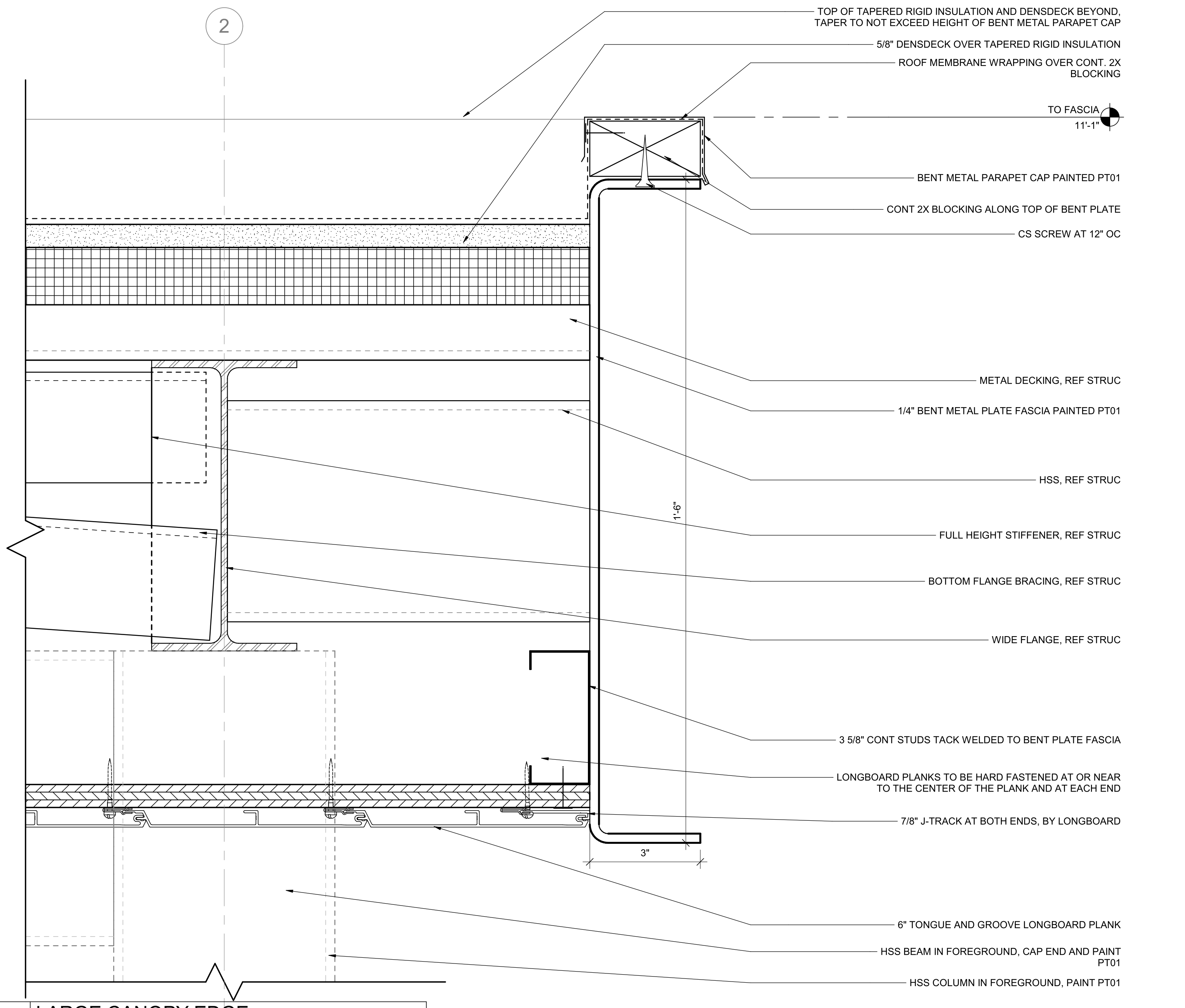
**9 SECONDARY DRAIN**  
 3" = 1'-0"



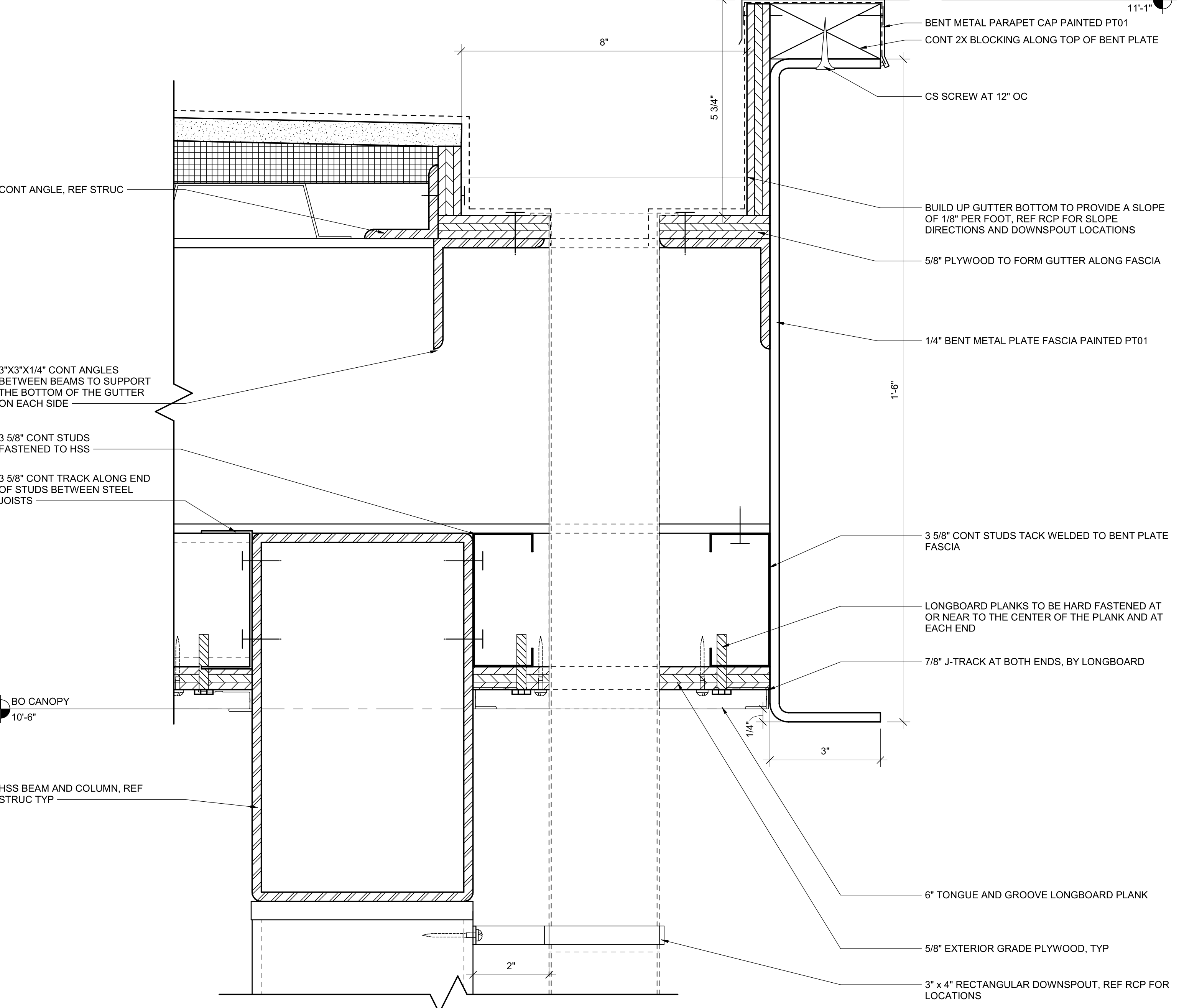
**5 FASCIA AT FIREPLACE**  
 6" = 1'-0"



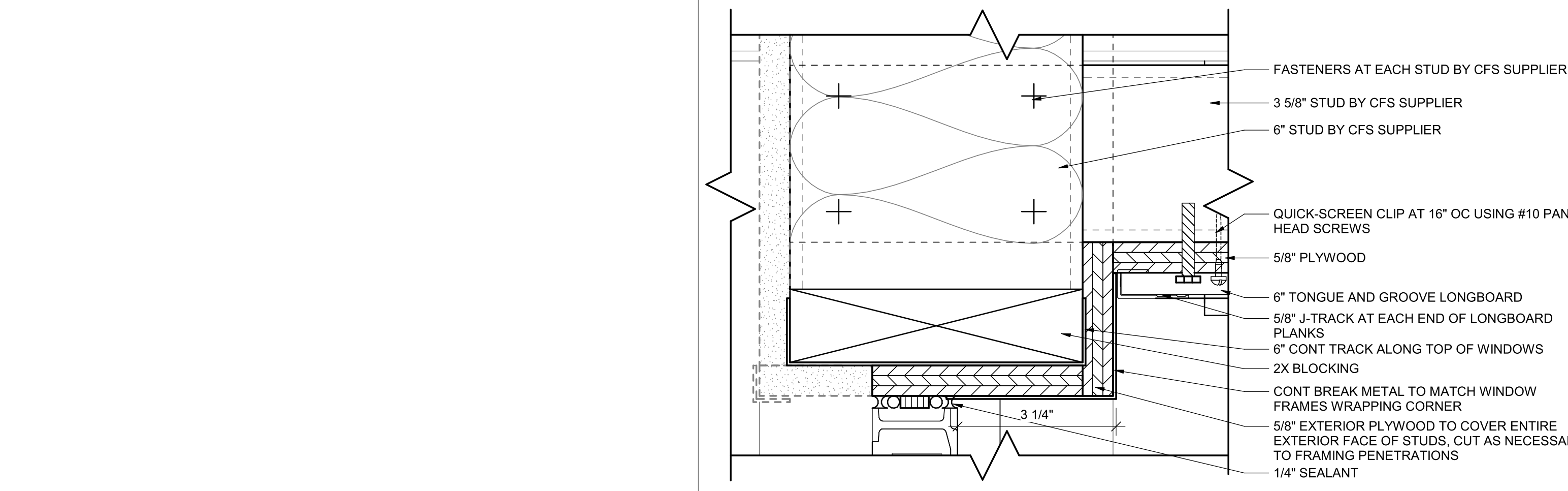
**1 CANOPY EDGE AT THIN BRICK**  
 1 1/2" = 1'-0"



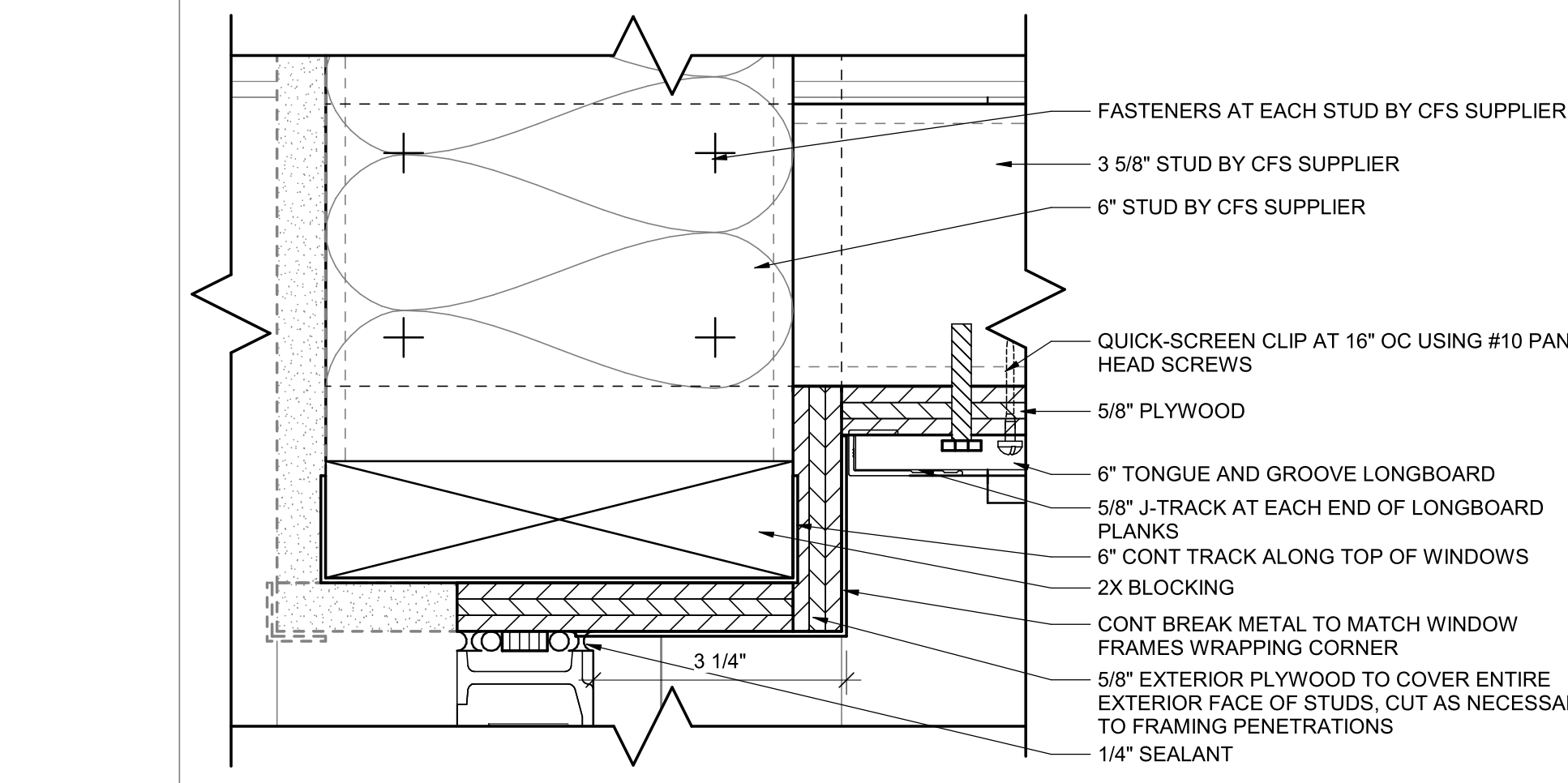
**8 LARGE CANOPY EDGE**  
 6" = 1'-0"



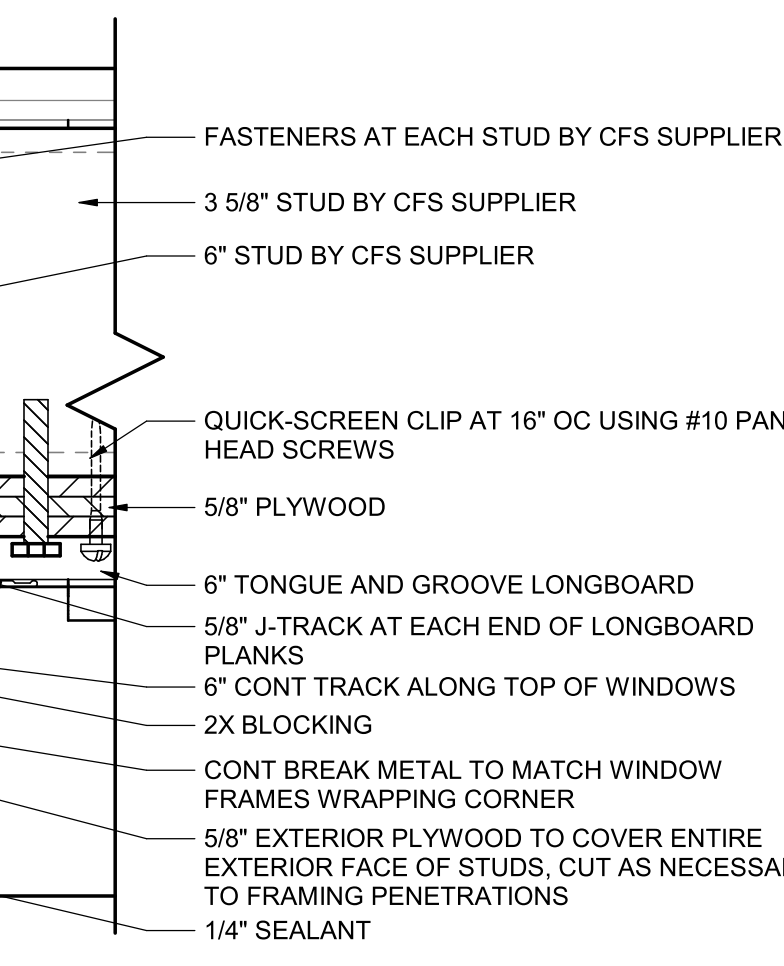
**6 CANOPY FASCIA AND GUTTERS**  
 6" = 1'-0"



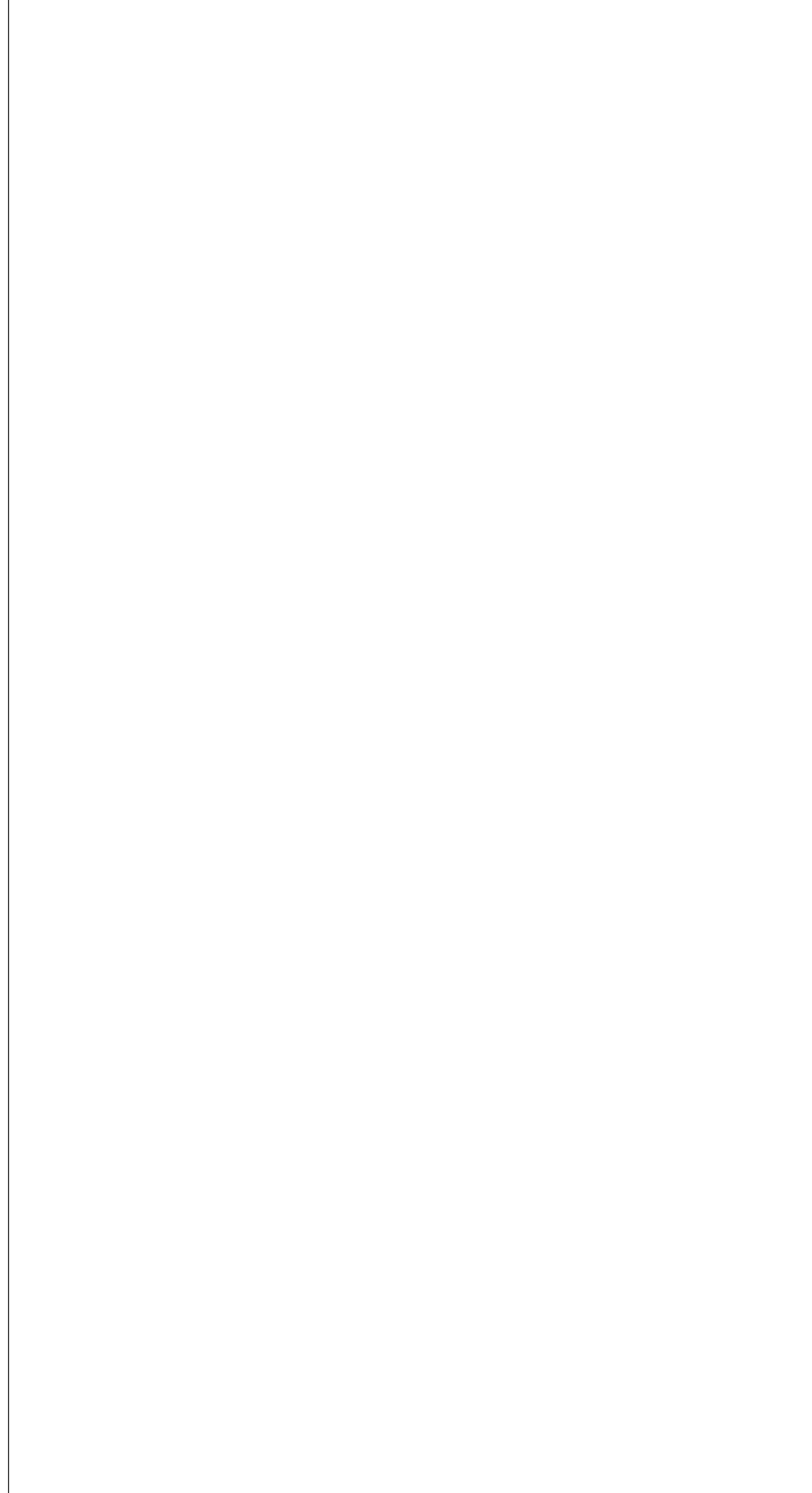
**3 CANOPY CONNECTION AT WINDOWS**  
 6" = 1'-0"



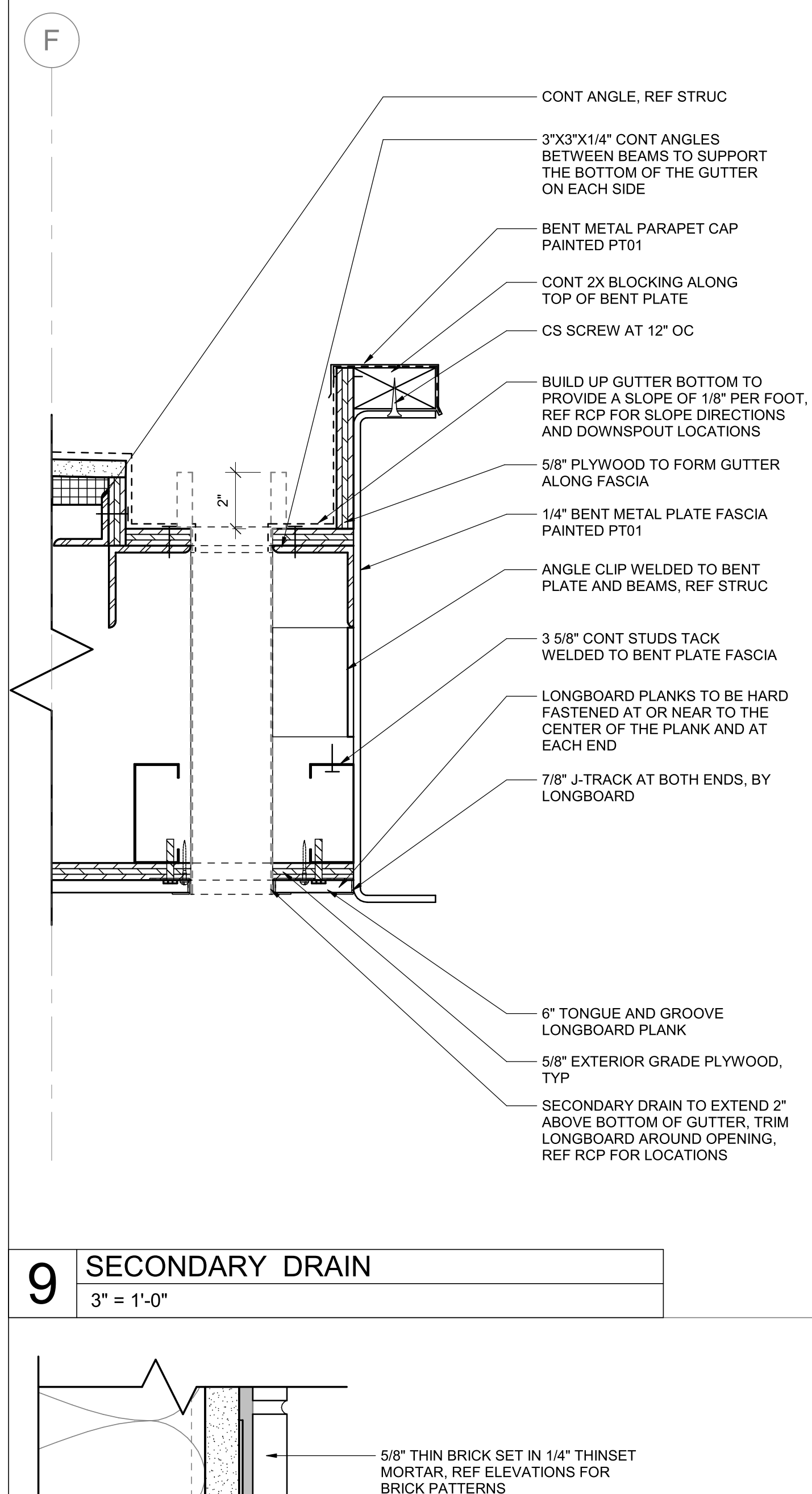
**2 BOX HEADER AT DINING BUMP OUT**  
 3" = 1'-0"



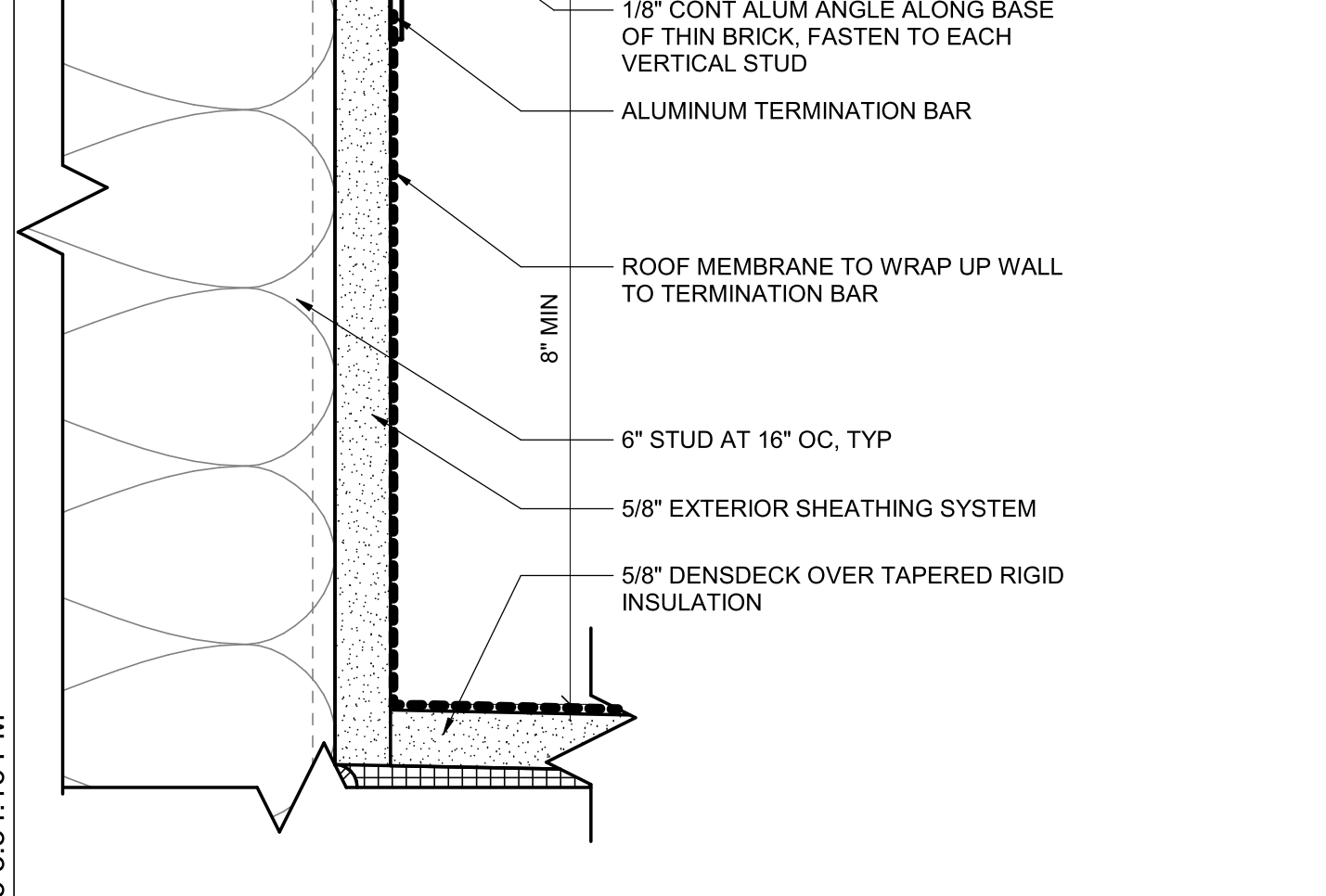
**4 THIN BRICK ABOVE CANOPY**  
 6" = 1'-0"



**7 CANOPY EDGE**  
 6" = 1'-0"



**8 LARGE CANOPY EDGE**  
 6" = 1'-0"



**9 SECONDARY DRAIN**  
 3" = 1'-0"

5/1/2025 3:54:16 PM

**SHEET NOTES**

1. REFERENCE STRUCTURAL FOR ROOF REINFORCEMENT AT NEW TENANT EQUIPMENT
2. REFERENCE MEPP FOR NEW TENANT EQUIPMENT AND PENETRATIONS, SHOWN FOR REFERENCE ONLY
3. PAINT ALL PIPING SAFETY YELLOW
4. PROVIDE CONTINUOUS WALKWAY PAD AND CRICKET AT NEW ROOFTOP EQUIPMENT. PROVIDE WALKWAY PAD FROM ROOF ACCESS POINT TO ALL SERVICEABLE EQUIPMENT. COORDINATE WITH FUTURE TENANT EQUIPMENT. TYP
5. PROVIDE R30 CONTINUOUS INSULATION ION ROOF PER COMCHECK REPORT.

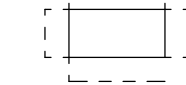

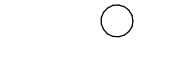
ARCHITECT OF RECORD

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CONSULTANT

CLIENT

**SYMBOLS LEGEND**

-  RTU, REF MEP
-  FAN, REF MEP
-  ROOF DRAIN/VENT, REF MEP

**PROJECT TITLE**

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER	62500002
PROJECT MANAGER	TM
DRAWN BY	ND
CHECKED BY	[Signature]
PROFESSIONAL SEAL	



5/11/2025

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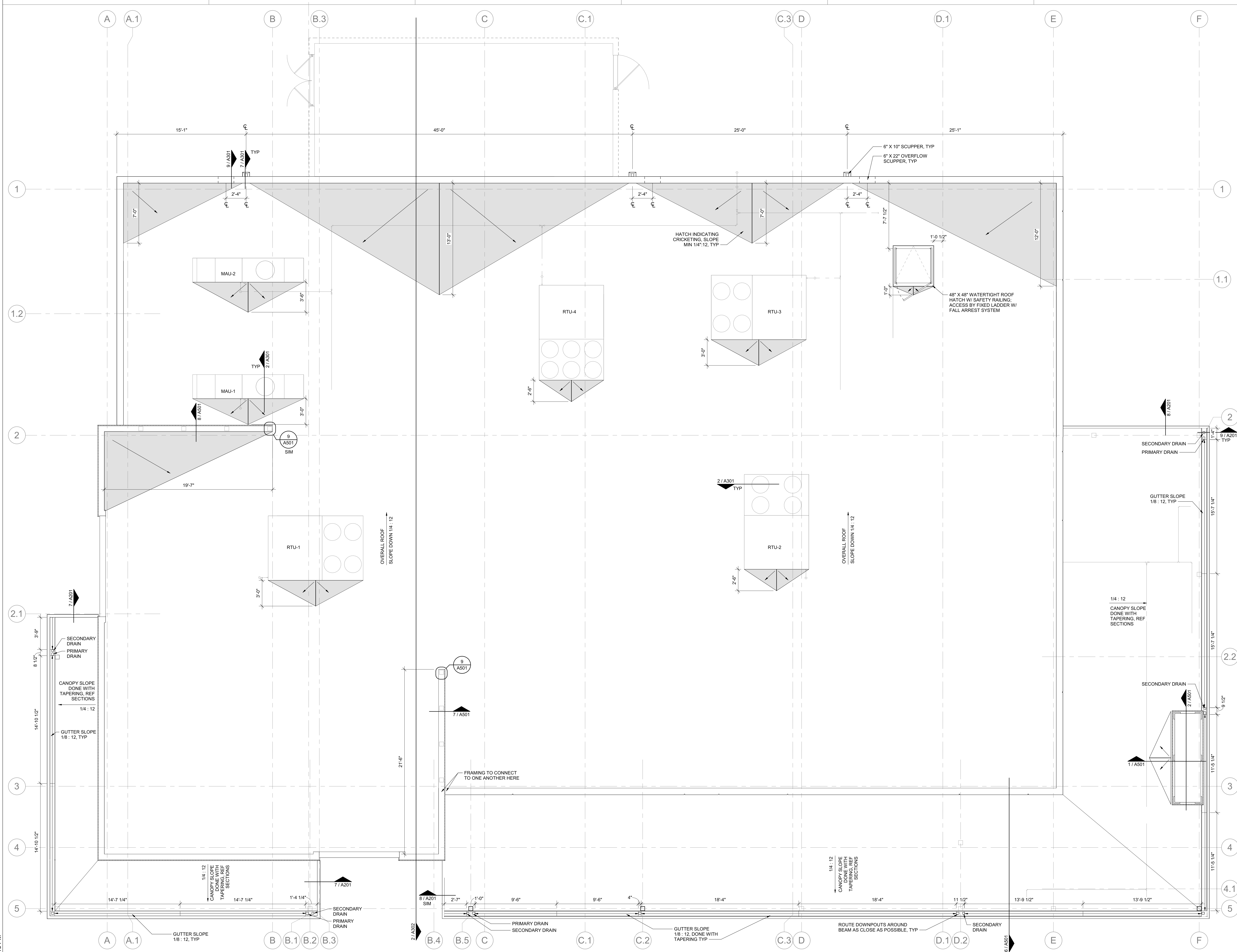
NUMBER	DATE	ISSUES	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME


**ROOF PLAN**

SHEET NUMBER

**A300**



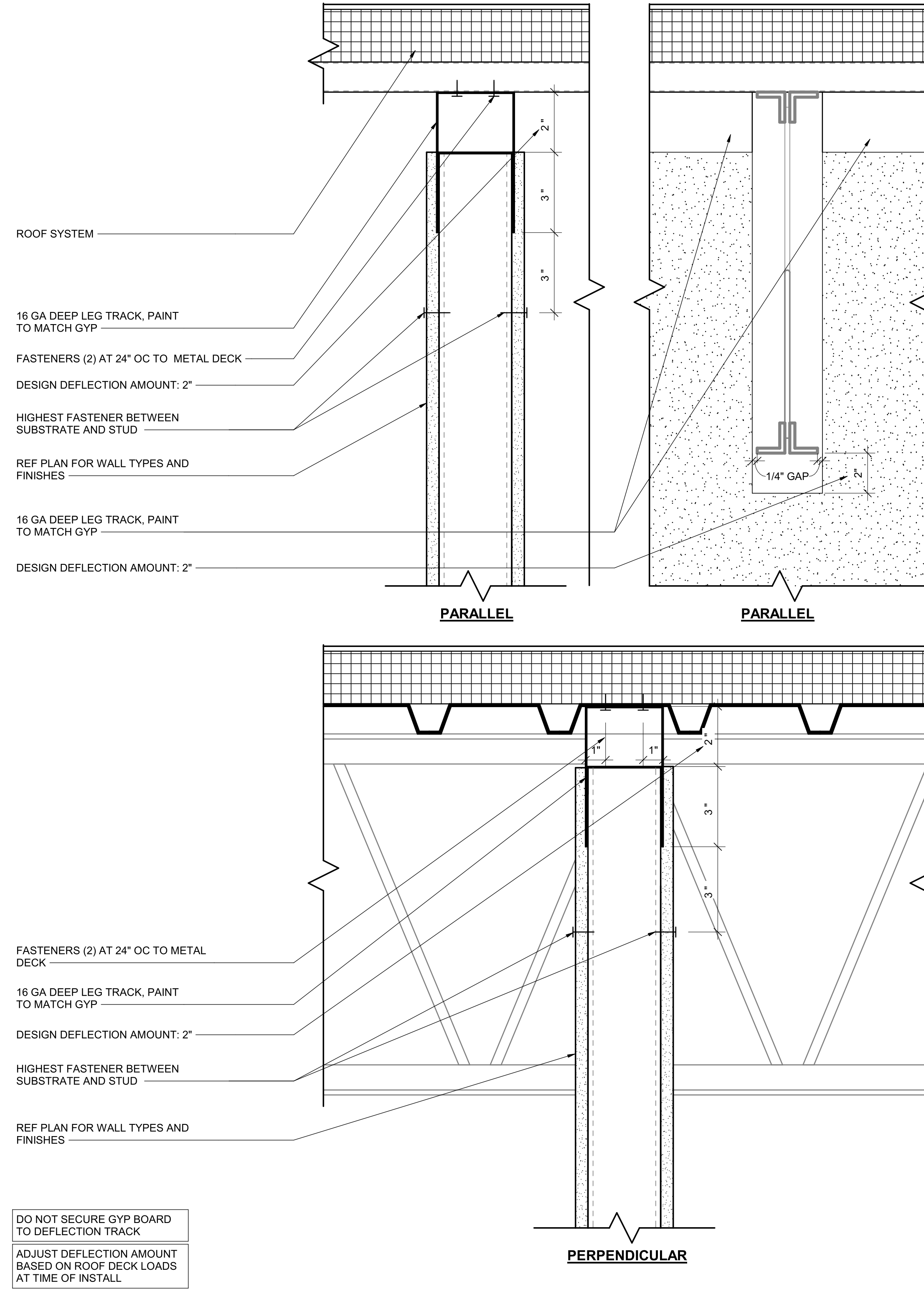
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**1** **ROOF PLAN**  
 1/4" = 1'-0"  


5/12/2025 3:54:19 PM

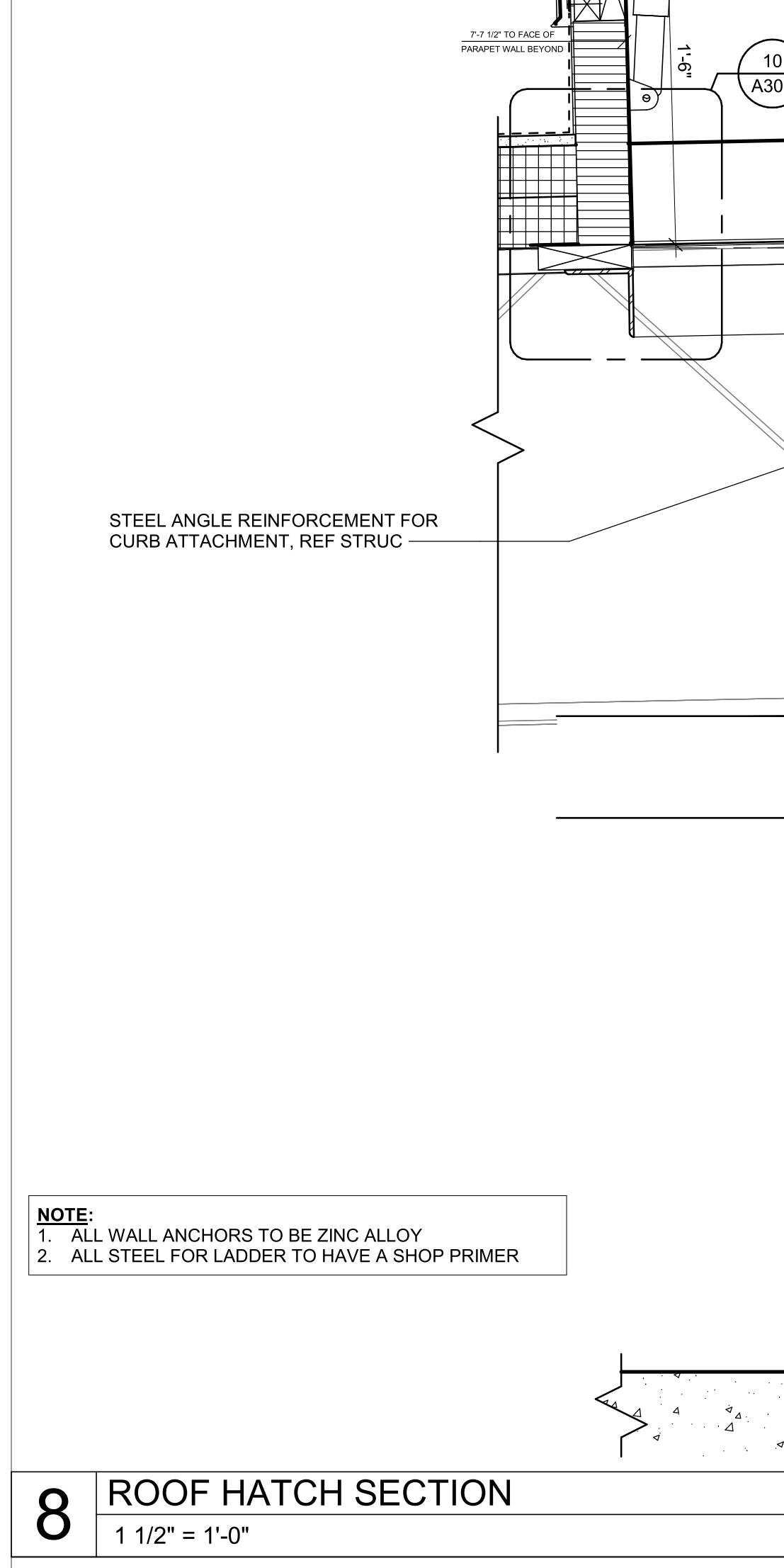
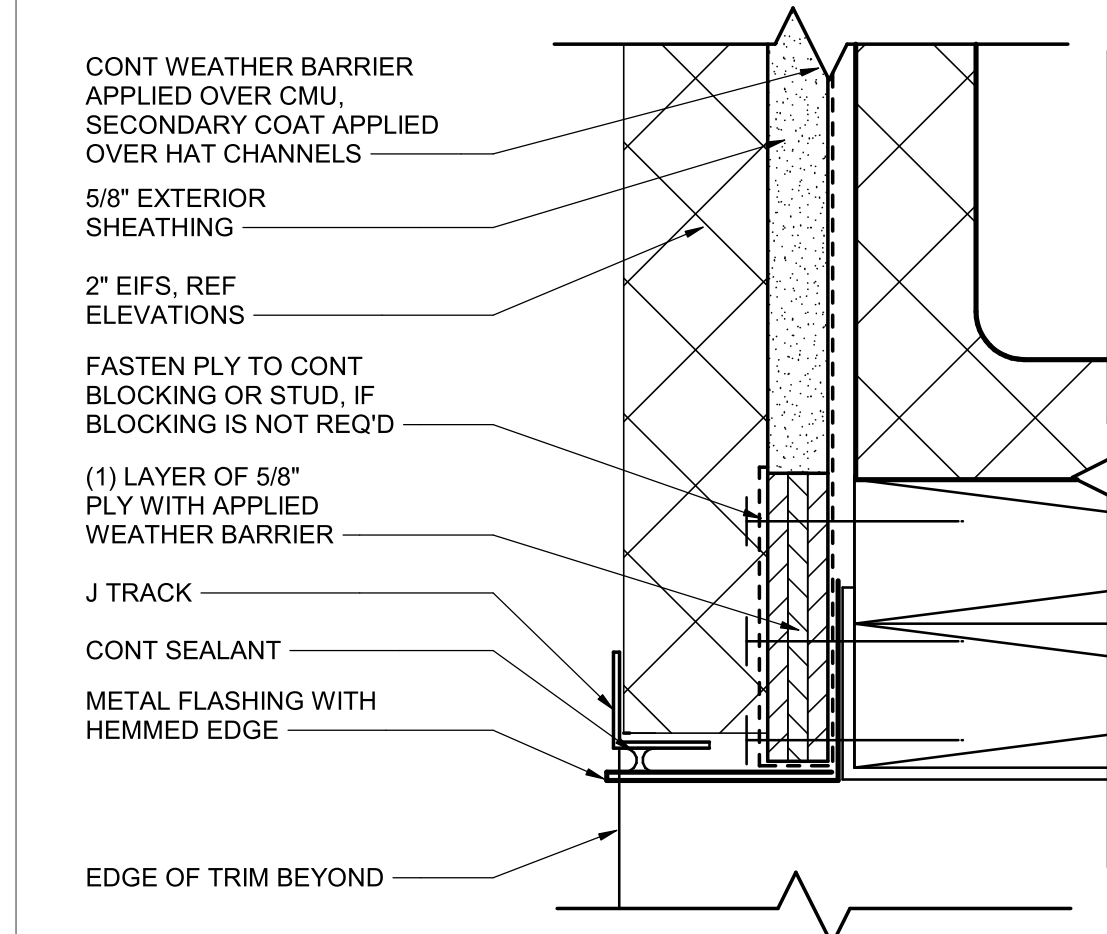
### 6 DEFLECTION TRACK

3" = 1'-0"



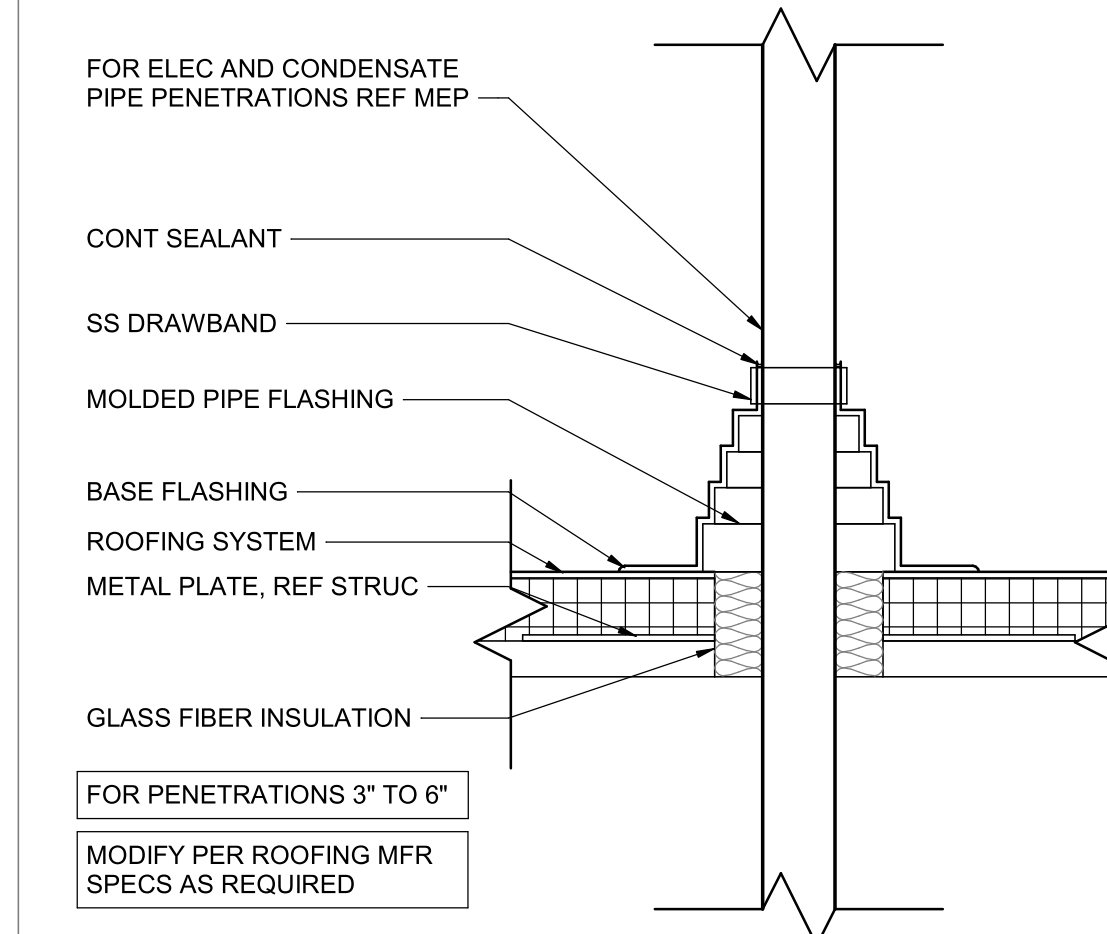
### 5 SCUPPER TRIM PLAN DETAIL

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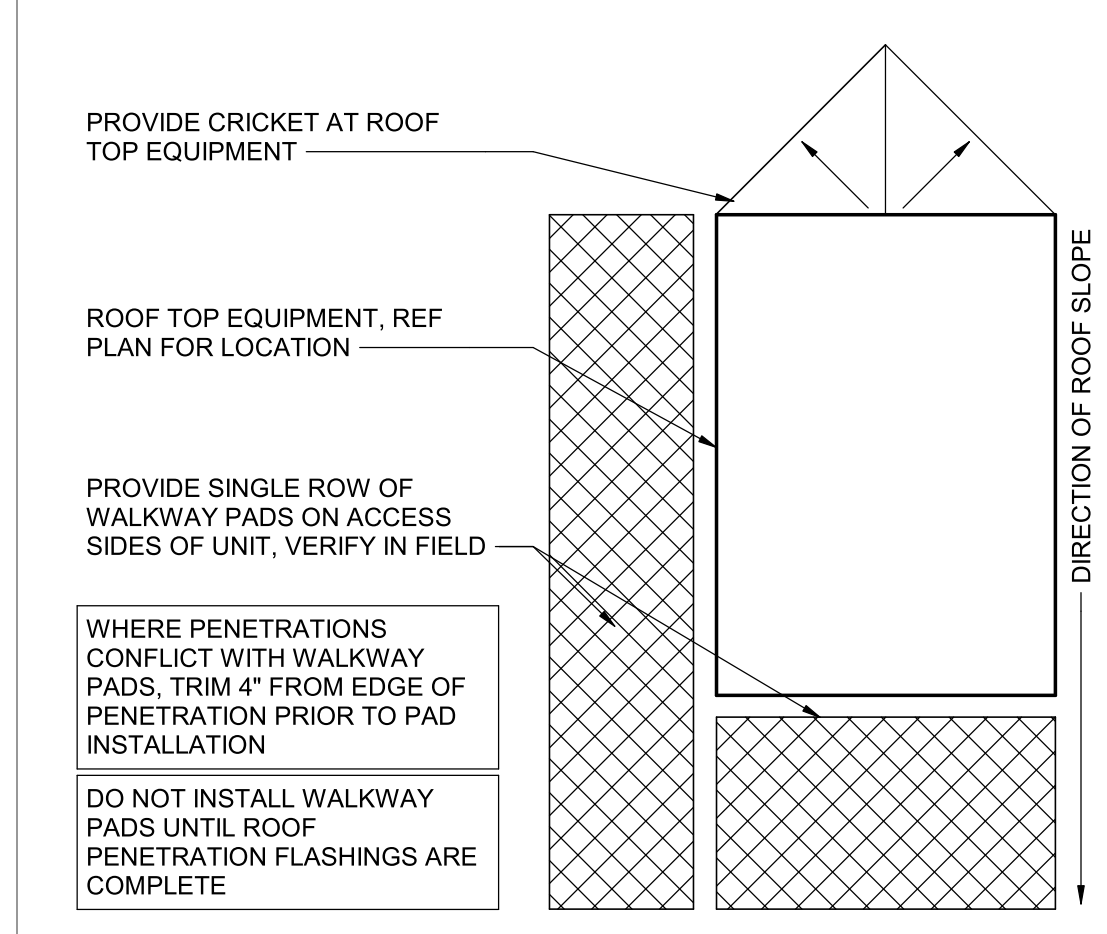
### 4 MOLDED FLASHING

1 1/2\"/>



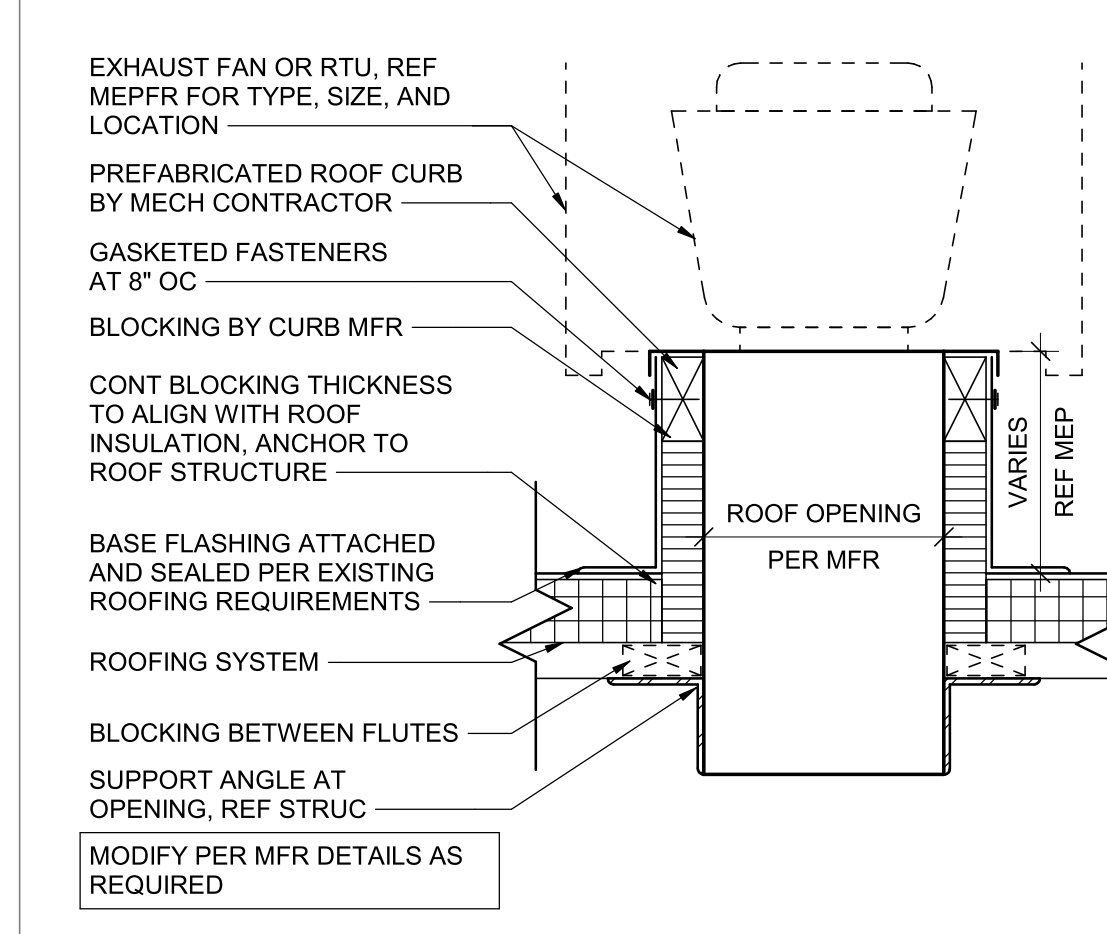
### 3 WALKWAY PADS AND CRICKETS

1 1/2\"/>



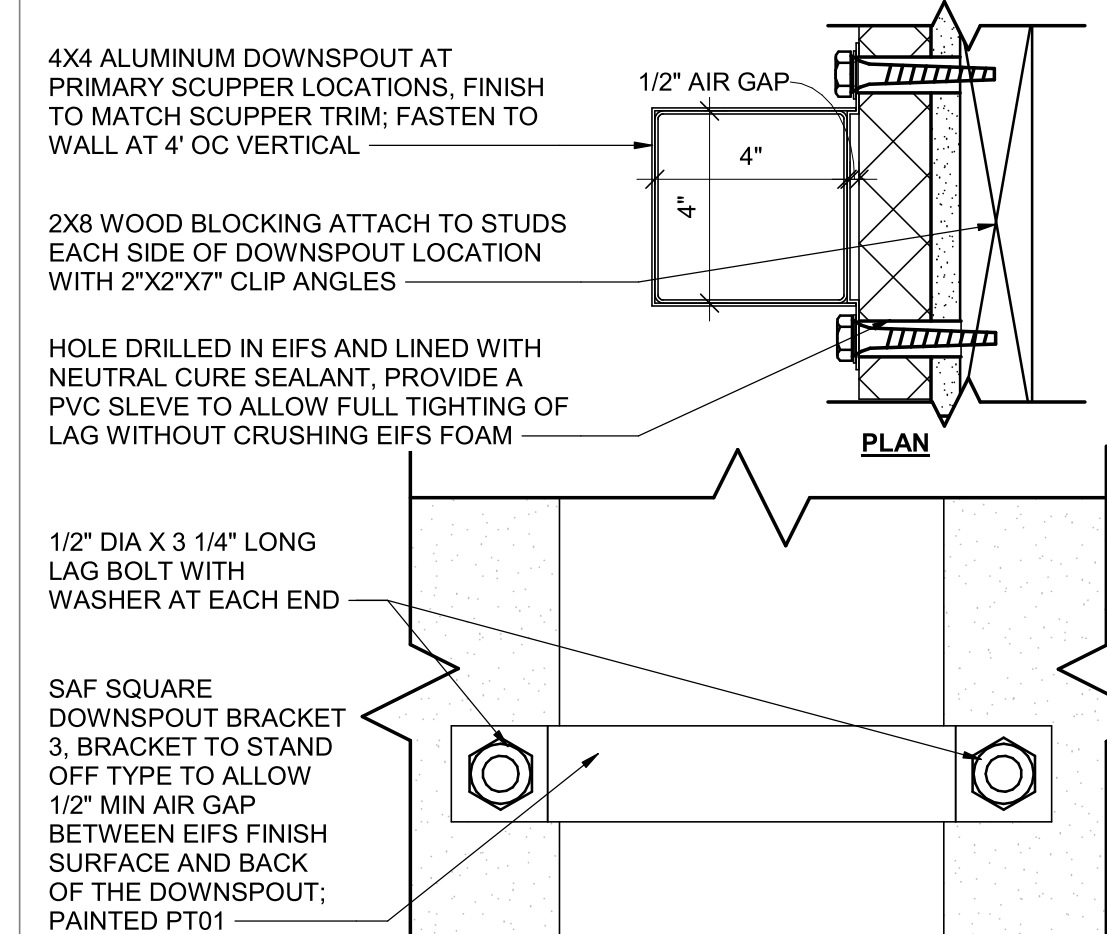
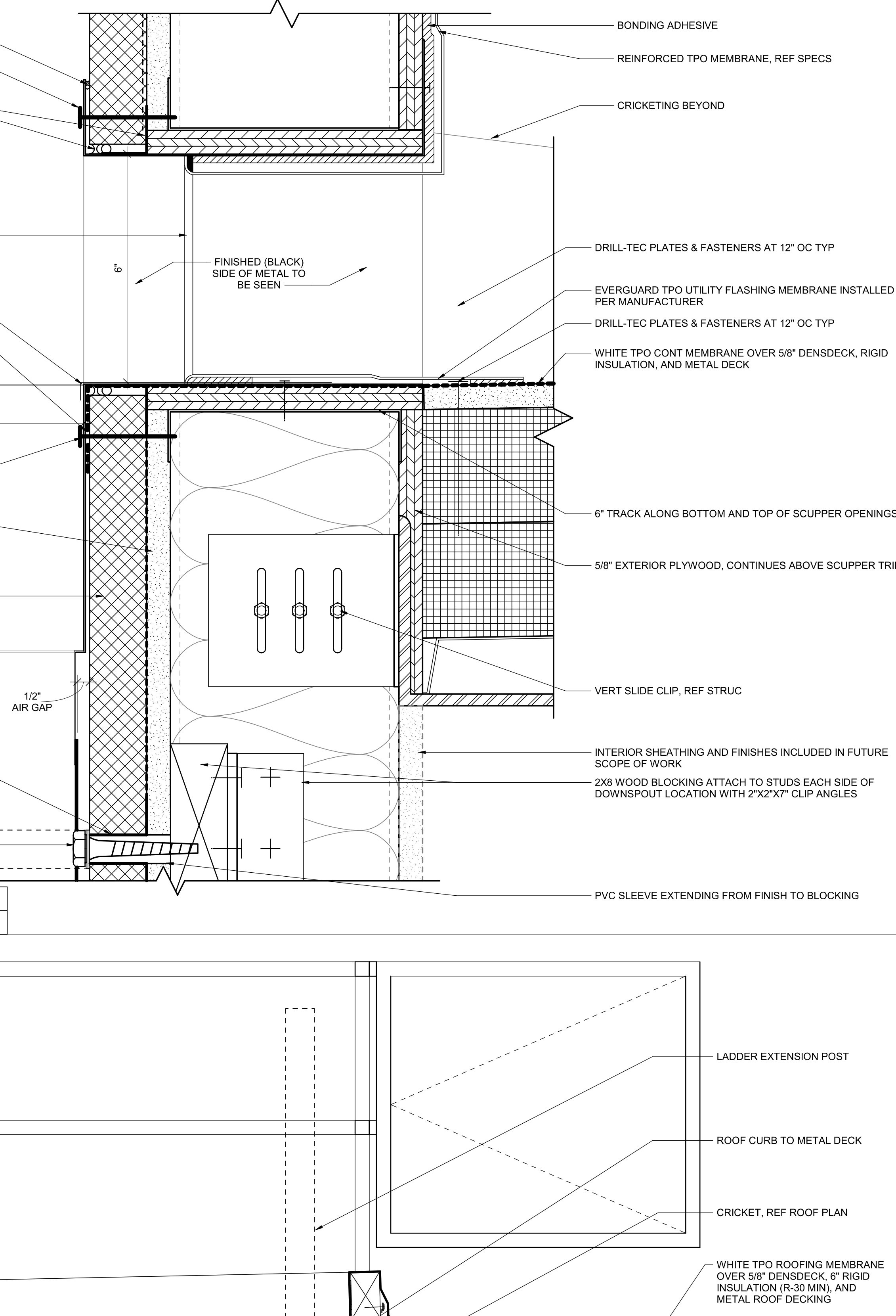
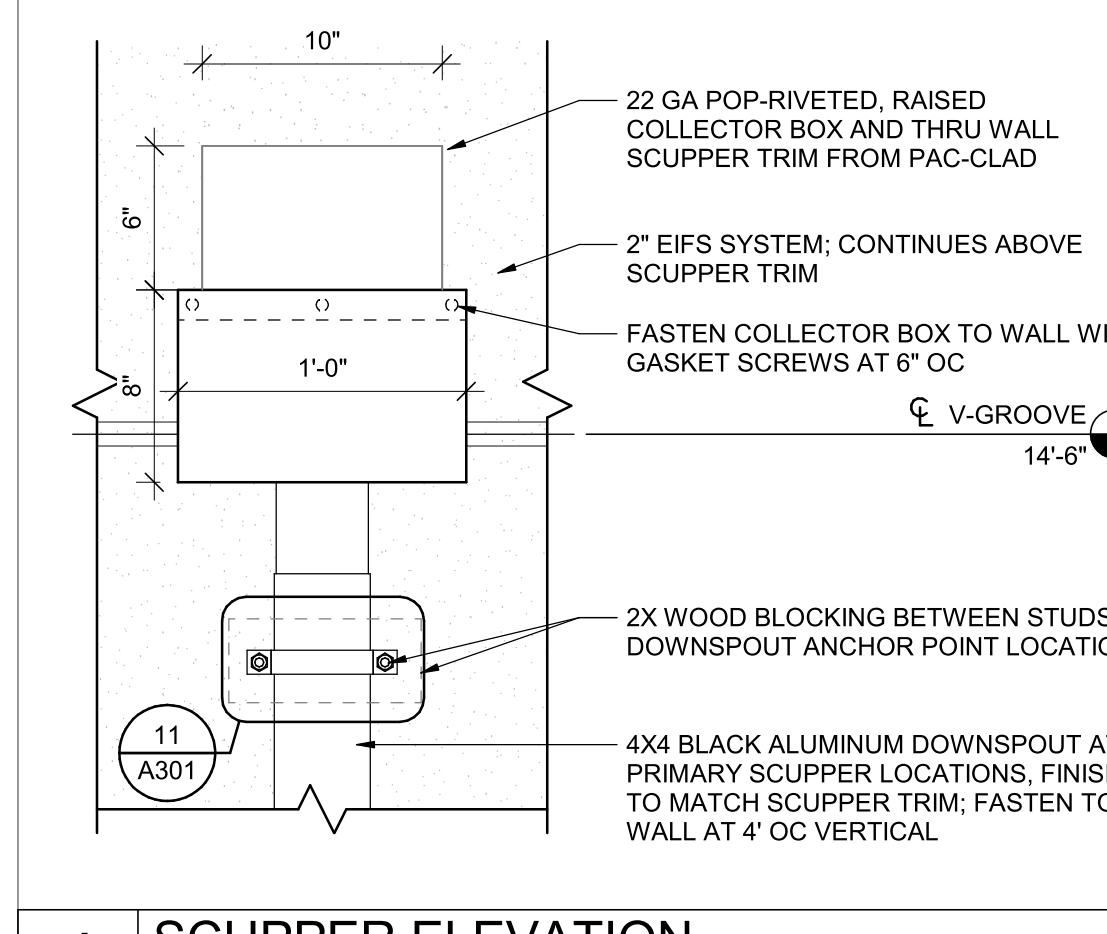
### 2 CURB

1 1/2\"/>



### 1 SCUPPER ELEVATION

1 1/2\"/>

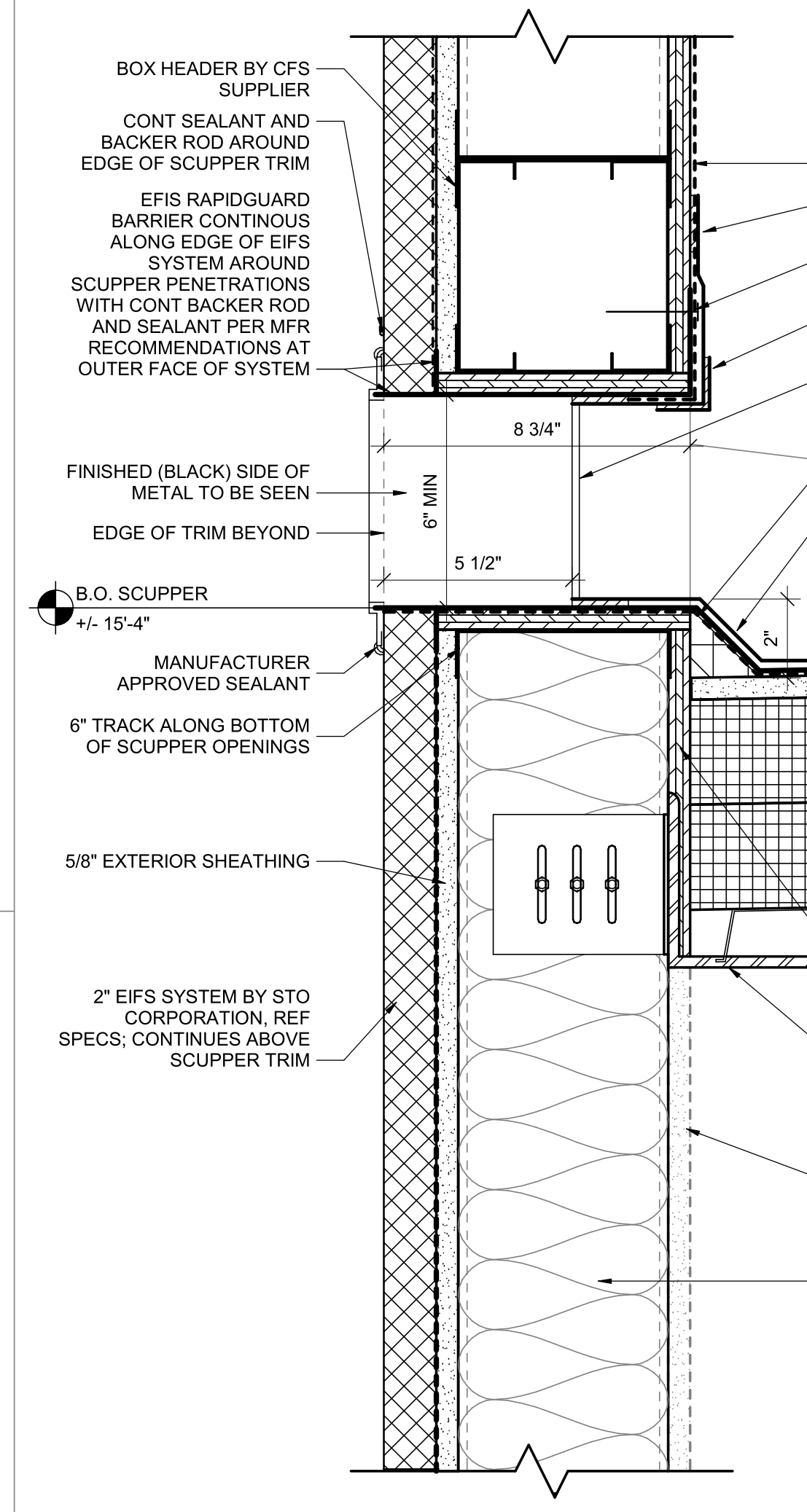
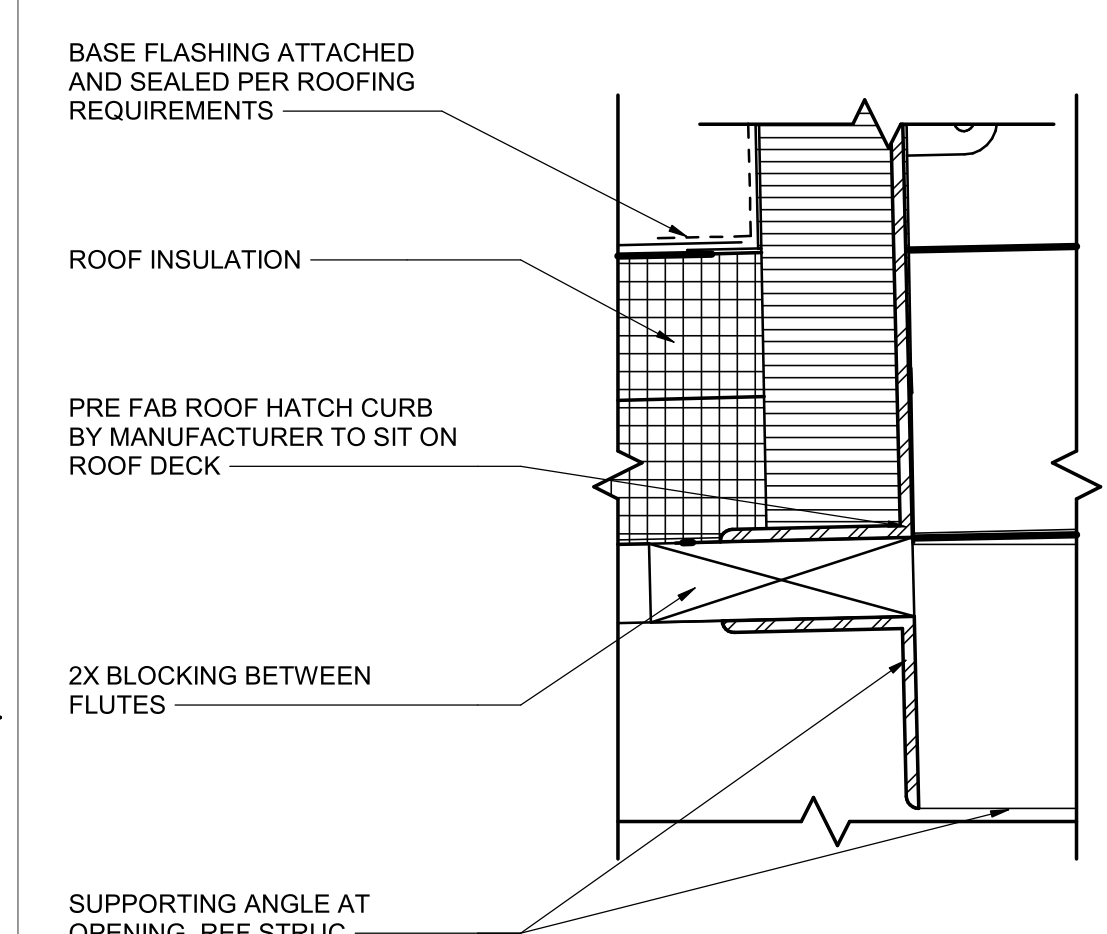


### 11 SCUPPER DOWNSPOUT CLAMP

6\"/>

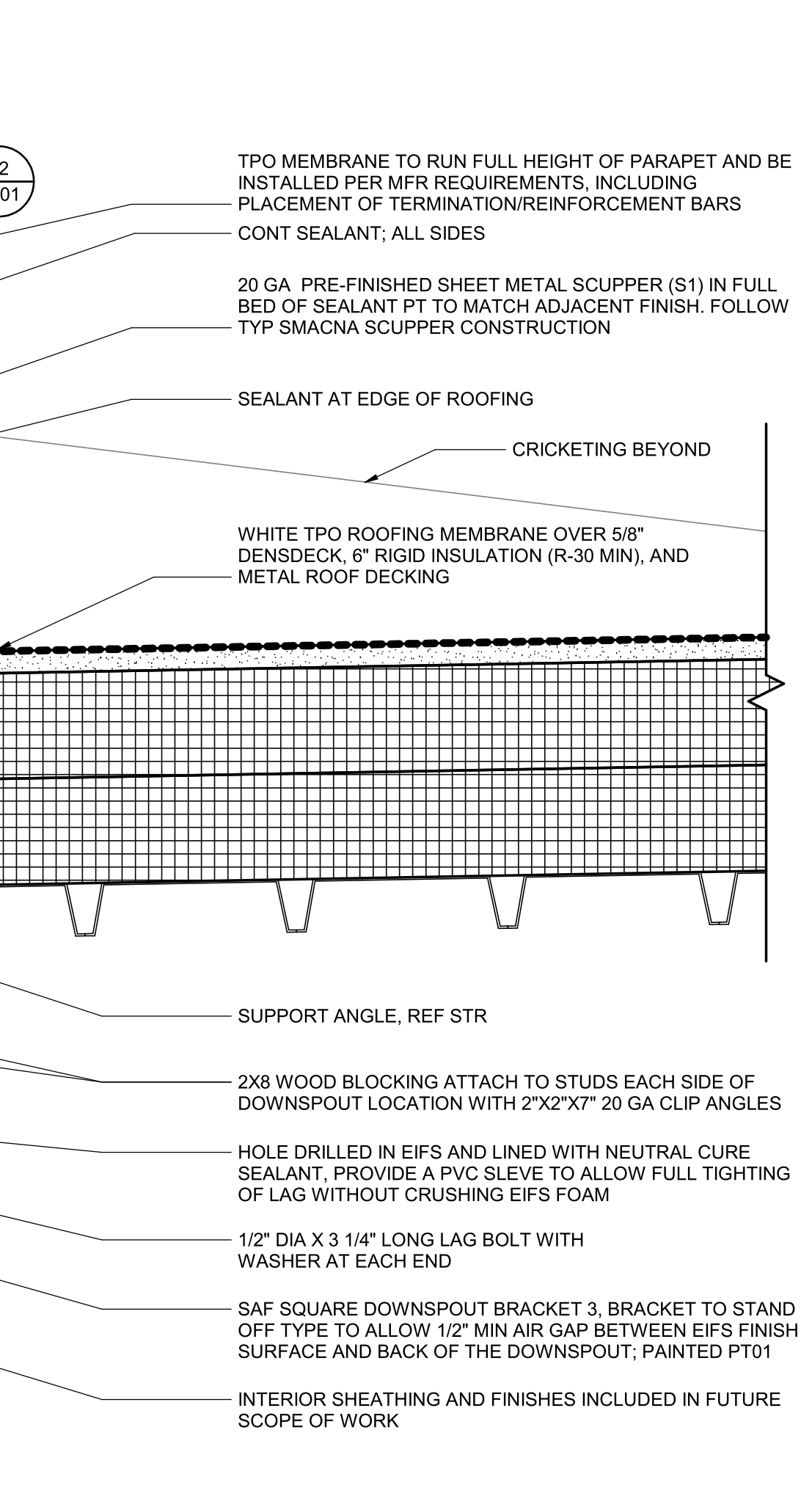
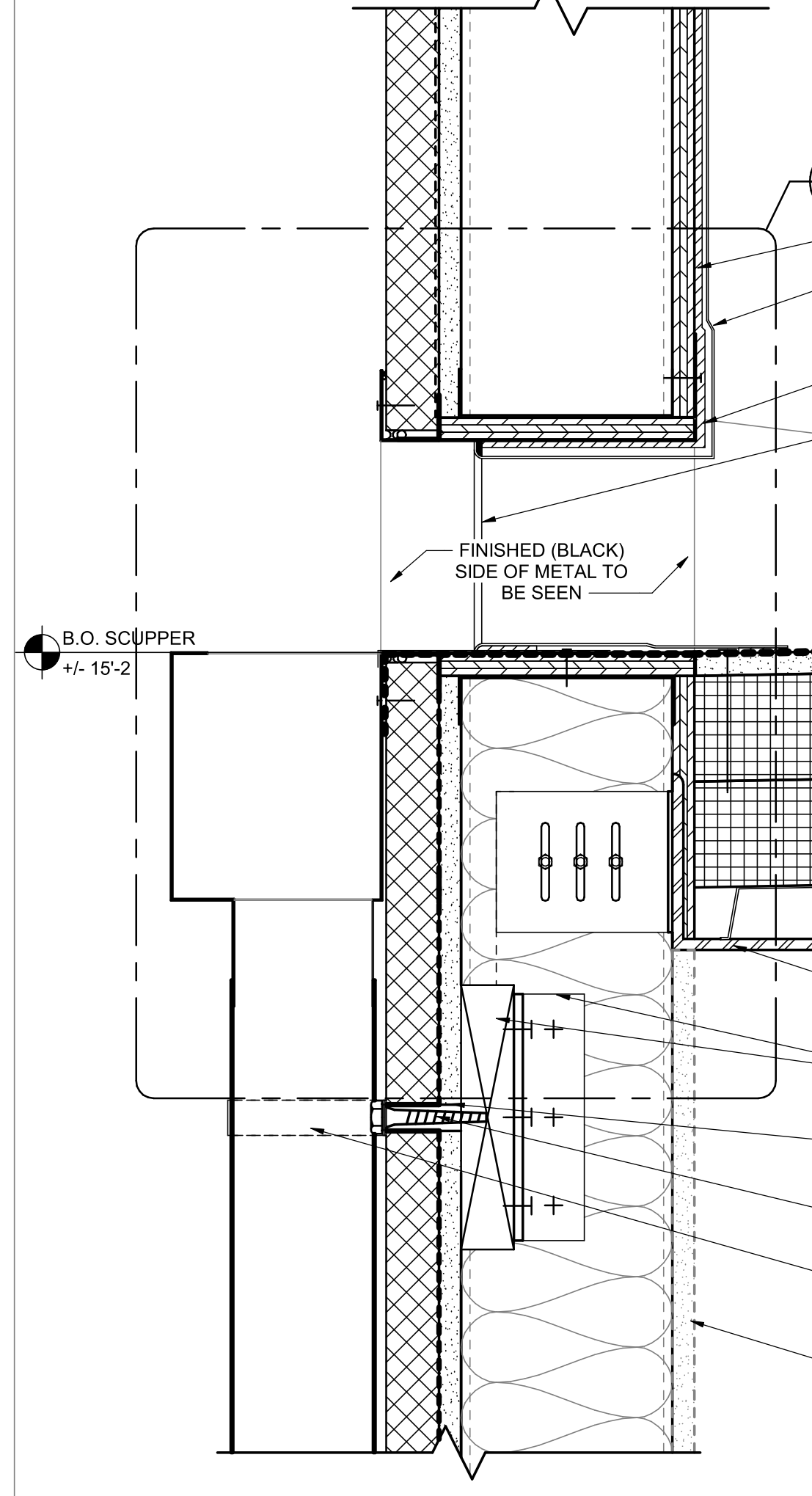
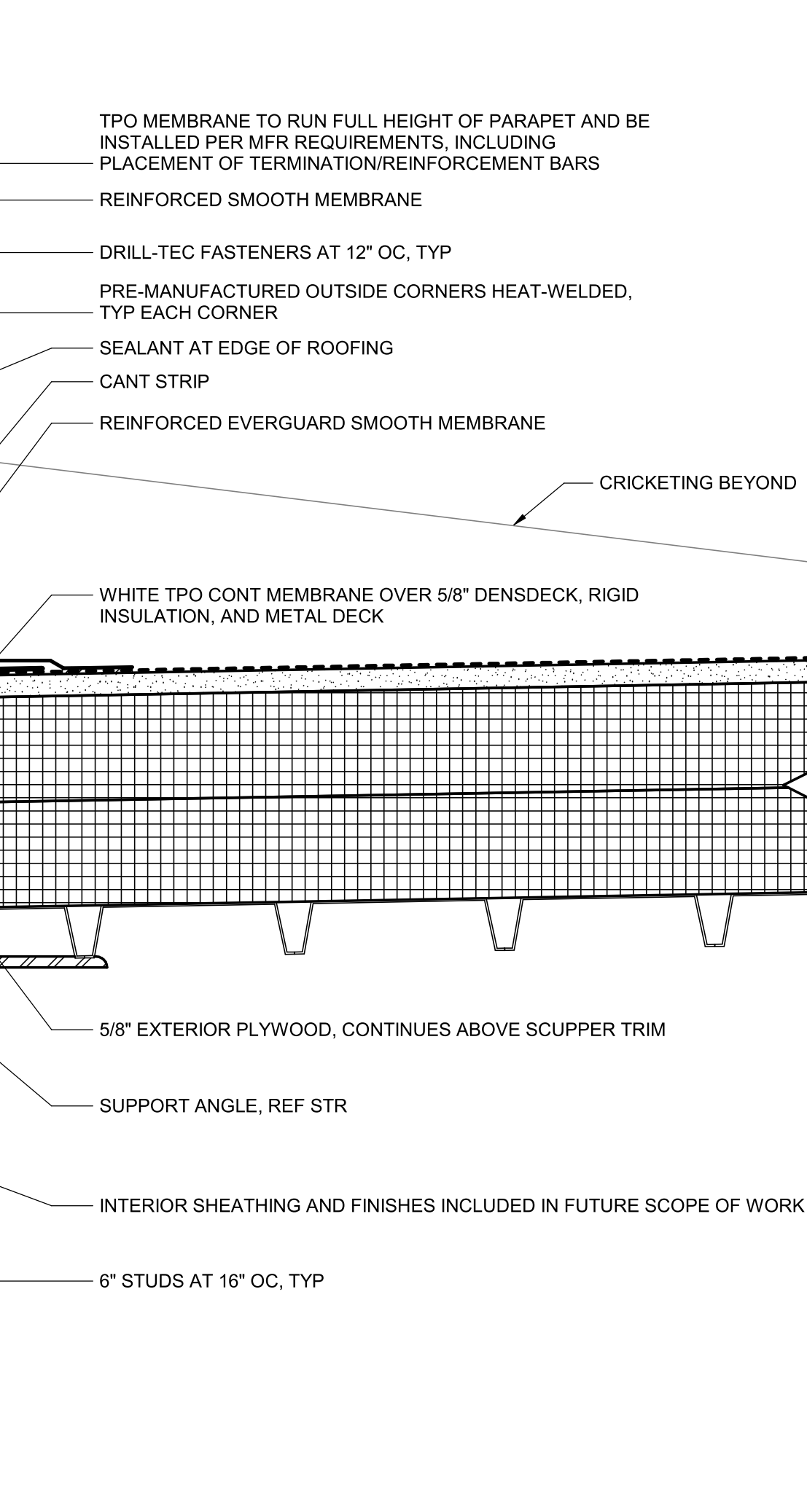
### 10 ROOF HATCH CURB

3\"/>



### 9 OVERFLOW SCUPPER

3\"/>



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CONSULTANT  
 CLIENT

PROJECT TITLE  
**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER: 62500002  
 PROJECT MANAGER: TM  
 DRAWN BY: ND  
 CHECKED BY: [Signature]  
 PROFESSIONAL SEAL: [Seal]

5/12/2025

ISSUES AND REVISIONS

NUMBER	DATE	ISSUE	ORIGINAL ISSUE

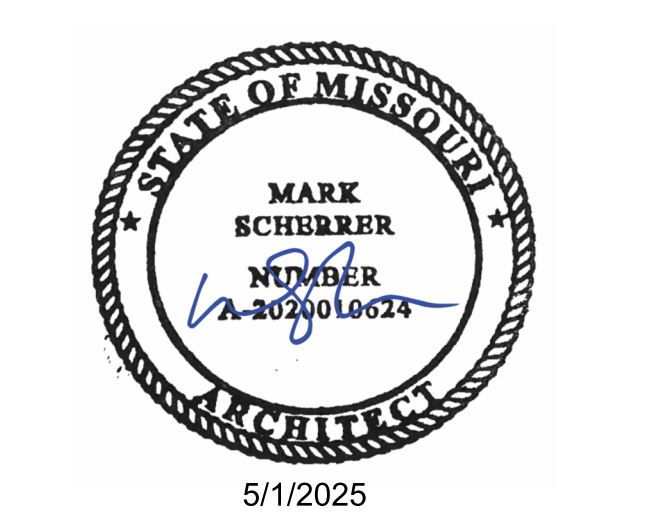
SHEET NAME  
**ROOF DETAILS**

SHEET NUMBER  
**A301**

888 ORIGINAL, PRINTED ON RECYCLED PAPER

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE

PROJECT NUMBER	62500002
PROJECT MANAGER	TM
DRAWN BY	ND
CHECKED BY	[Signature]



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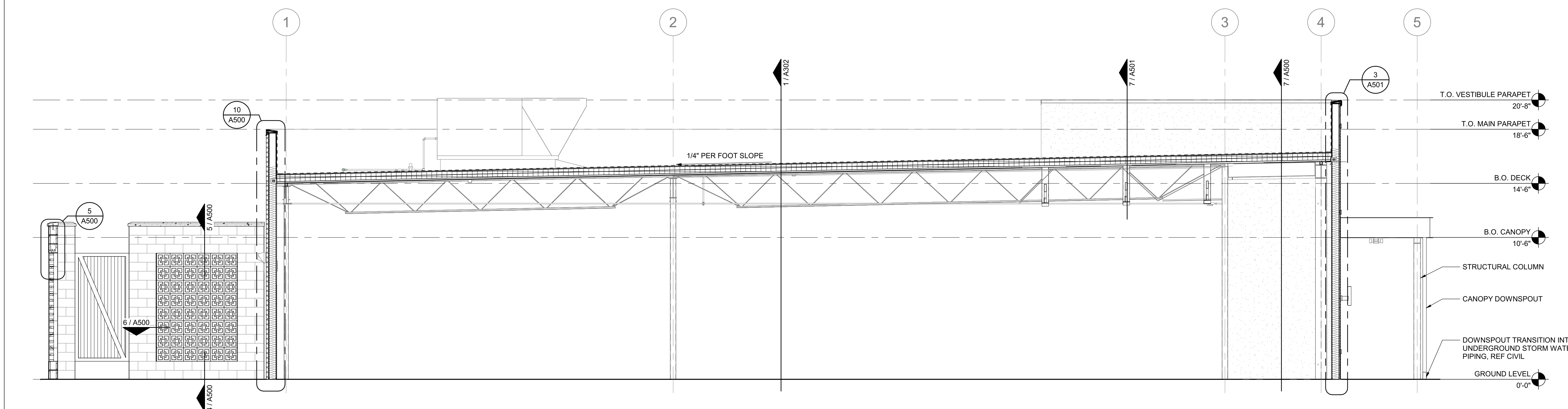
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SHEET NAME

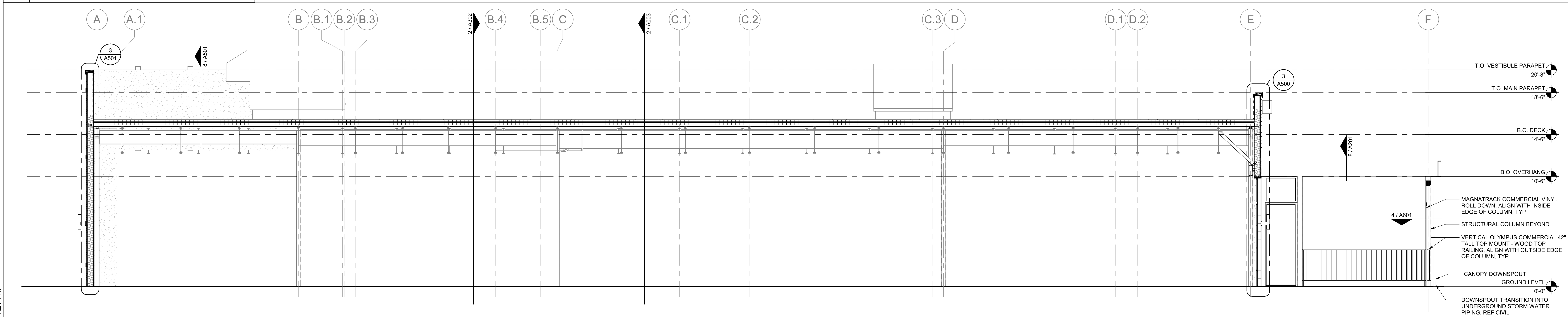
**BUILDING SECTIONS**

SHEET NUMBER

**A302**

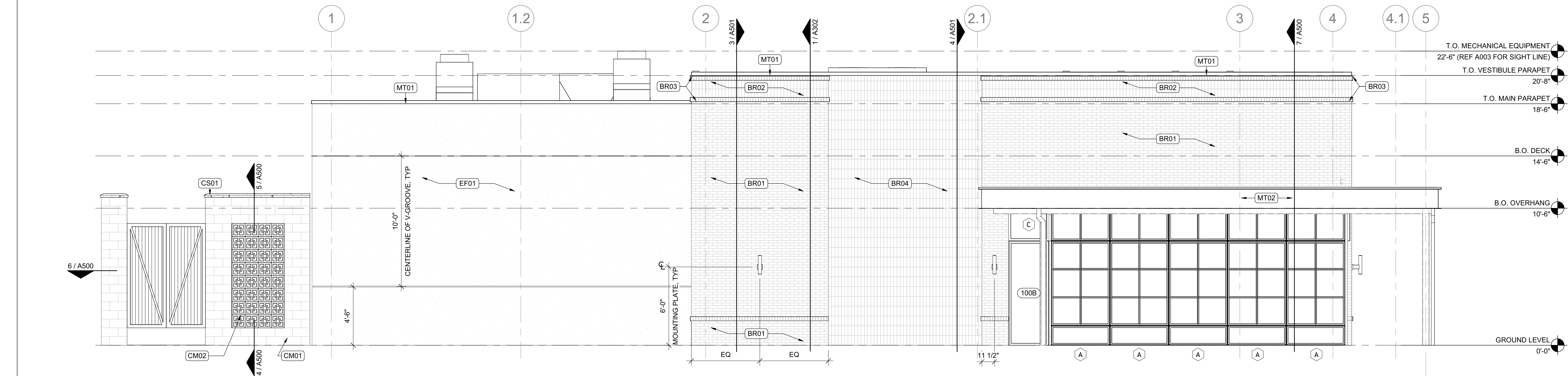


**2 NORTH-SOUTH SECTION**  
1/4" = 1'-0"

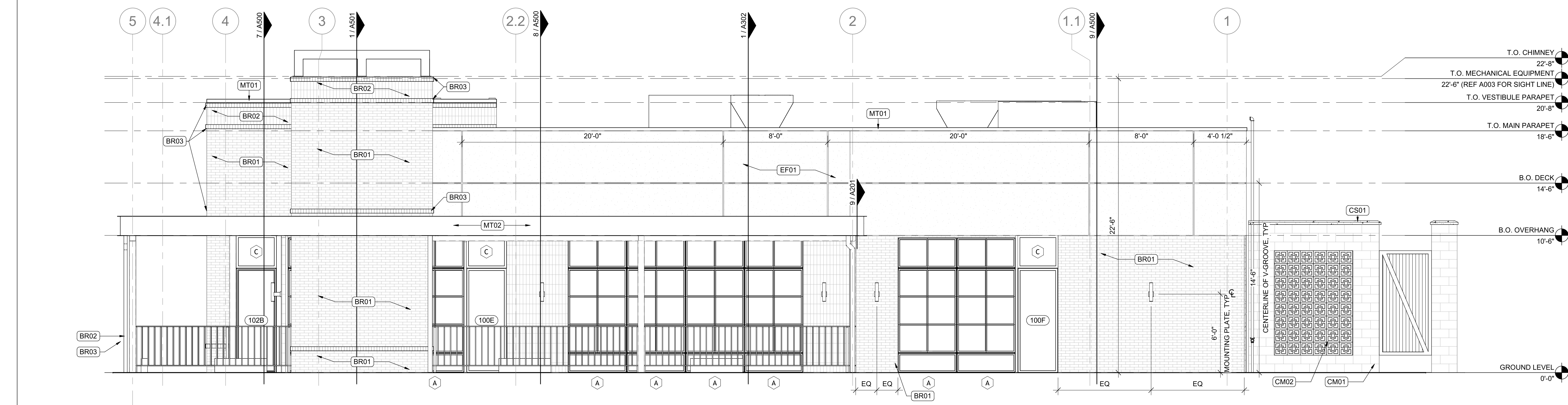


**1 EAST-WEST SECTION**  
1/4" = 1'-0"

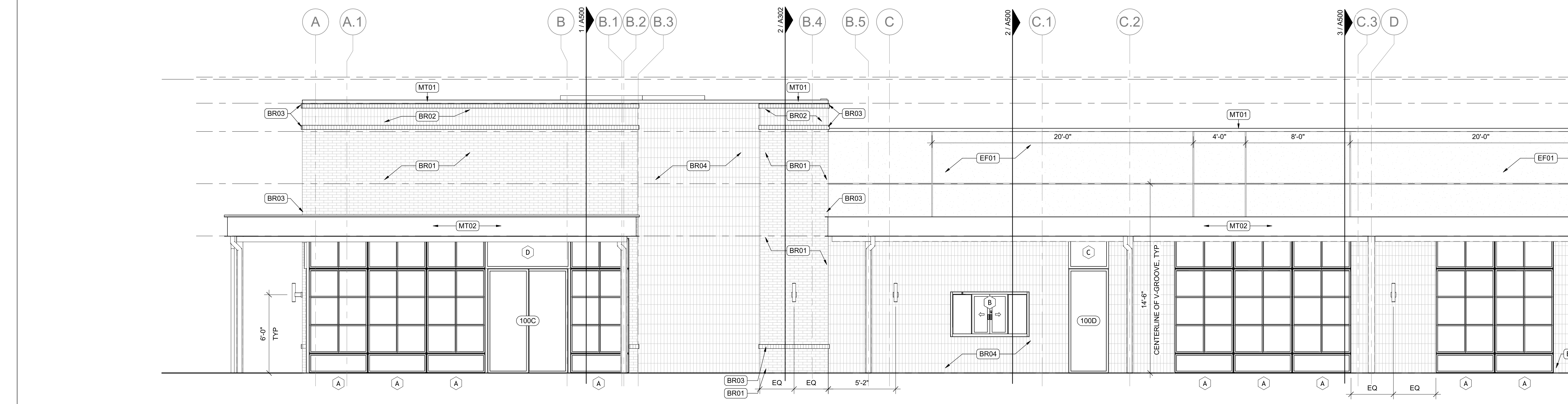
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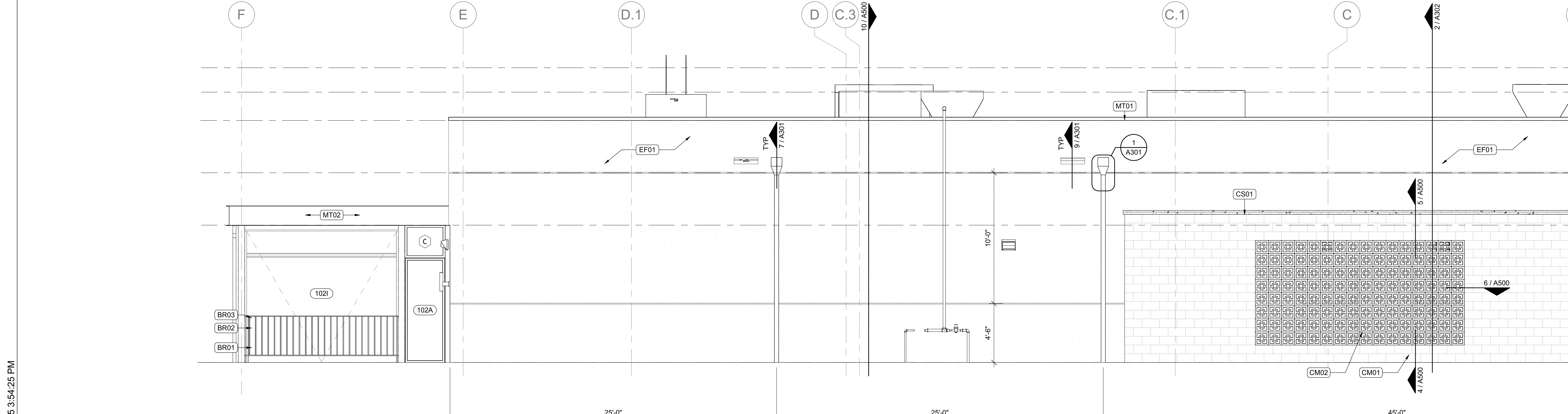
**4 WEST ELEVATION**  
1/4" = 1'-0"



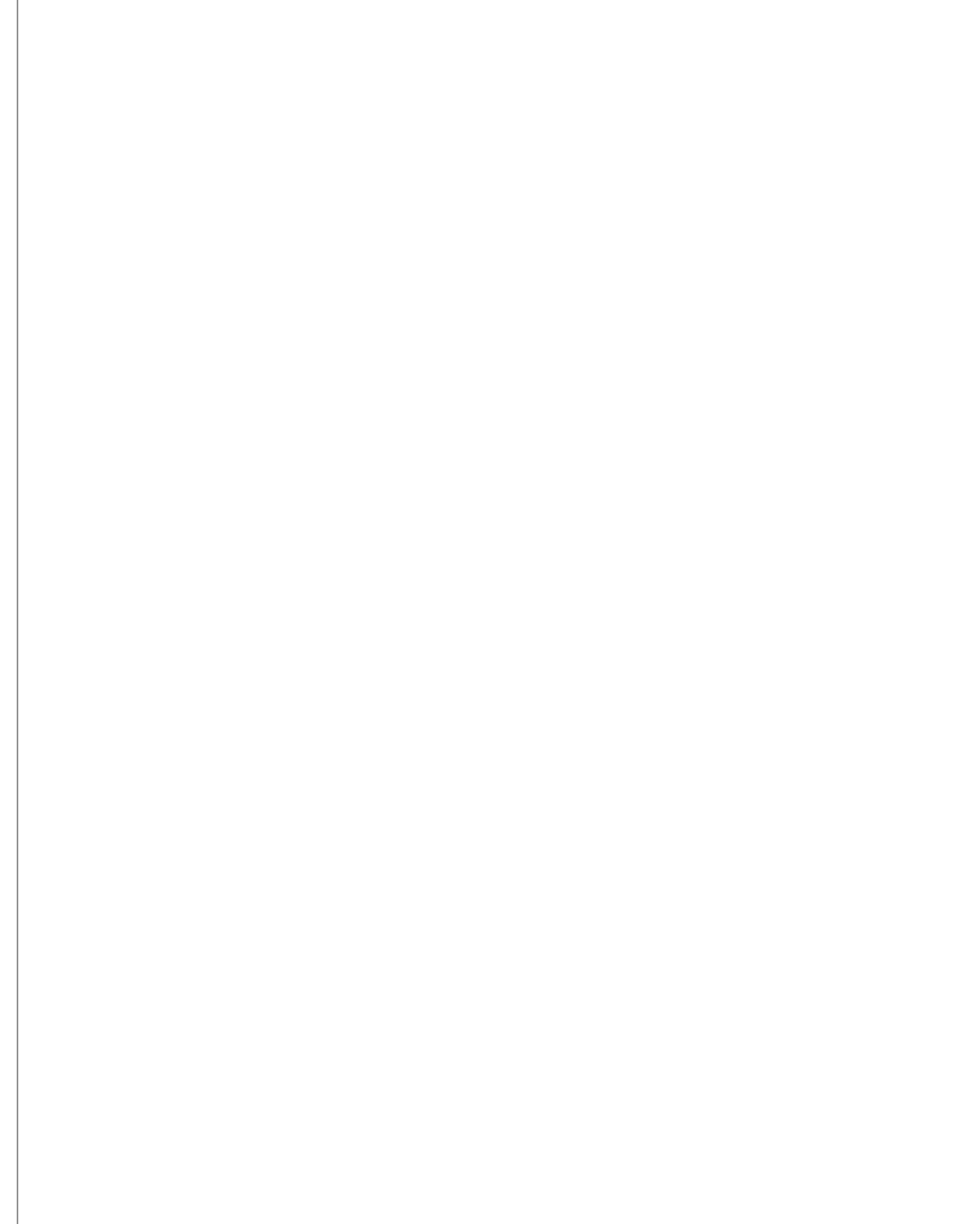
**3 EAST ELEVATION**  
1/4" = 1'-0"



**2 SOUTH ELEVATION**  
1/4" = 1'-0"



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



**5 PATIO EGRESS DOOR**  
1/4" = 1'-0"

**SHEET NOTES**

1. REFERENCE PARTITION DETAILS FOR TRANSITIONS BETWEEN SUBSTRATES.
2. PROVIDE CONTROL JOINTS IN GYPSUM BOARD FRAMED ASSEMBLIES AT 30" OC MAX. OR AS INDICATED ON PLAN.
3. WOOD HATCH DIRECTION INDICATES PLANK AND GRAIN DIRECTION. COORDINATE WITH FINISH SCHEDULE.
4. TILE HATCH INDICATES GROUT PATTERN. COORDINATE WITH FINISH SCHEDULE.
5. EQUIPMENT SHOWN DASHED FOR CLARITY.
6. JOINT SEALANT COLOR TO MATCH ADJACENT FINISHED SURFACES.

**FINISH SCHEDULE**

MARK	SUPPLIER/ MANUFACTURER	PRODUCT NAME/ NUMBER	COLOR/FINISH	NOTES
<b>BRICK (BRXX)</b>				
BR01	BELDEN BRICK	5/8" FACE BRICK	ALASKA WHITE	HORIZONTAL RUNNING BOND. GR01
BR02	BELDEN BRICK	5/8" FACE BRICK	ALASKA WHITE	VERTICAL SOLDIER COURSE. GR01
BR03	BELDEN BRICK	5/8" FACE BRICK	ALASKA WHITE	VERTICAL ROWLOCK COURSE. GR01
BR04	BELDEN BRICK	5/8" FACE BRICK	BLACK DIAMOND	VERTICAL SOLDIER COURSE. GR02
<b>CAST STONE (CS#)</b>				
CS01	N/A	PRE-CAST CONCRETE CAP	CONCRETE LIGHT GREY	
<b>CONCRETE MASONRY UNIT (CMXX)</b>				
CM01	BEST BLOCK	SPLIT FACE BLOCK	SNOW	8" X 8" X 16"
CM02	BEST BLOCK	SCREEN BLOCK	SNOW	8" X 12" X 12"
<b>EIFS (EFX)</b>				
EF01	STO CORP	STOTHERM CI XPS 16279		TRADITIONAL FINE TEXTURE
<b>GROUT (GRXX)</b>				
GR01	LATICRETE	44	BRIGHT WHITE	REF SPECS
GR02	LATICRETE	22	MIDNIGHT BLACK	REF SPECS
<b>METAL (MTXX)</b>				
MT01	REF SPECS FOR MANUFACTURER OPTIONS		STEEL BLACK / PT01	ROOF COPINGS / EDGE FLASHINGS
MT02	GO TO FURNISH		STEEL PT01	CANOPY FASCIA
<b>PAINT (PTXX)</b>				
PT01	SHERWIN WILLIAMS	TRICORN BLACK	MATTE	

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CONSULTANT

CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE

PROJECT NUMBER	62500002
PROJECT MANAGER	TM
DRAWN BY	ND
CHECKED BY	CT
PROFESSIONAL SEAL	



ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION

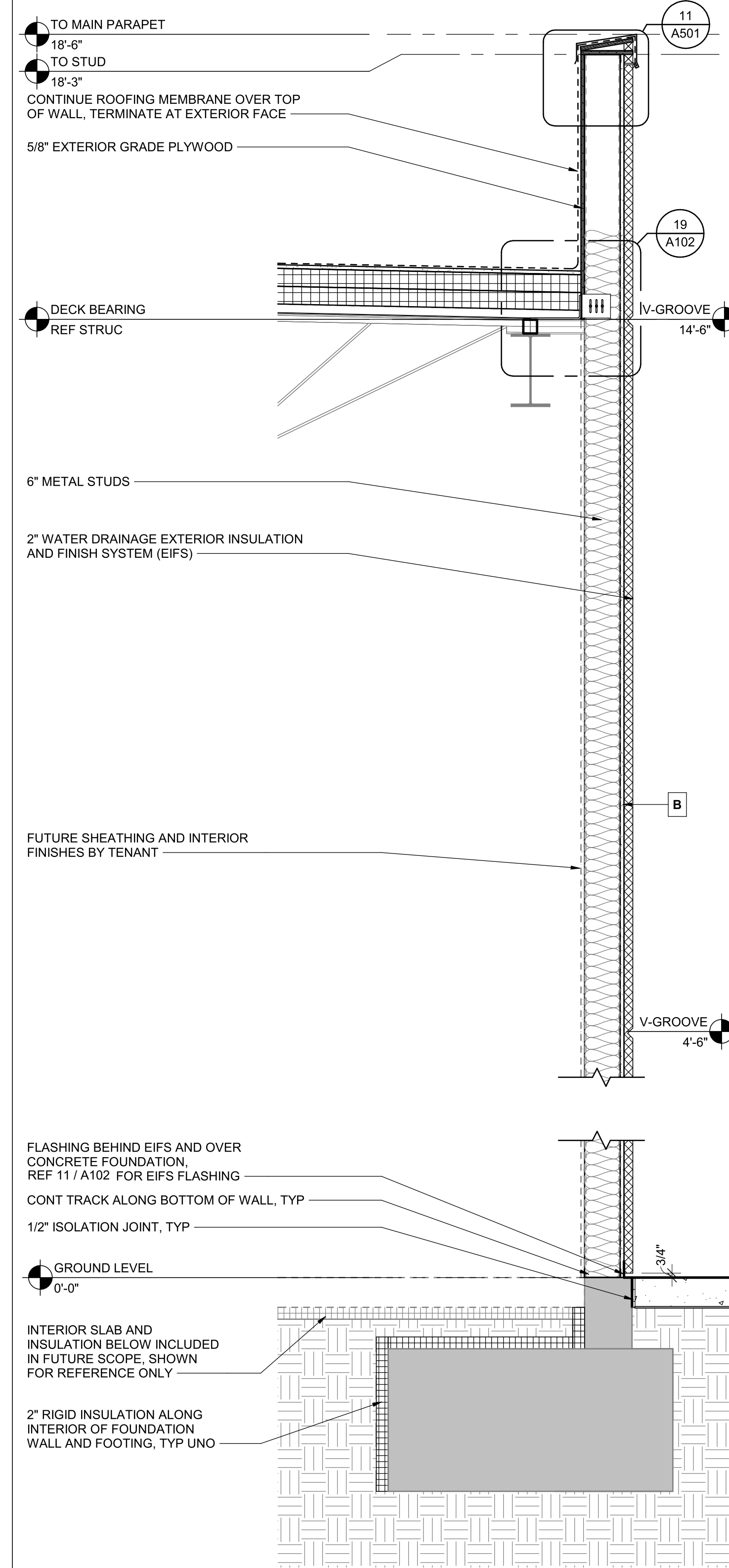
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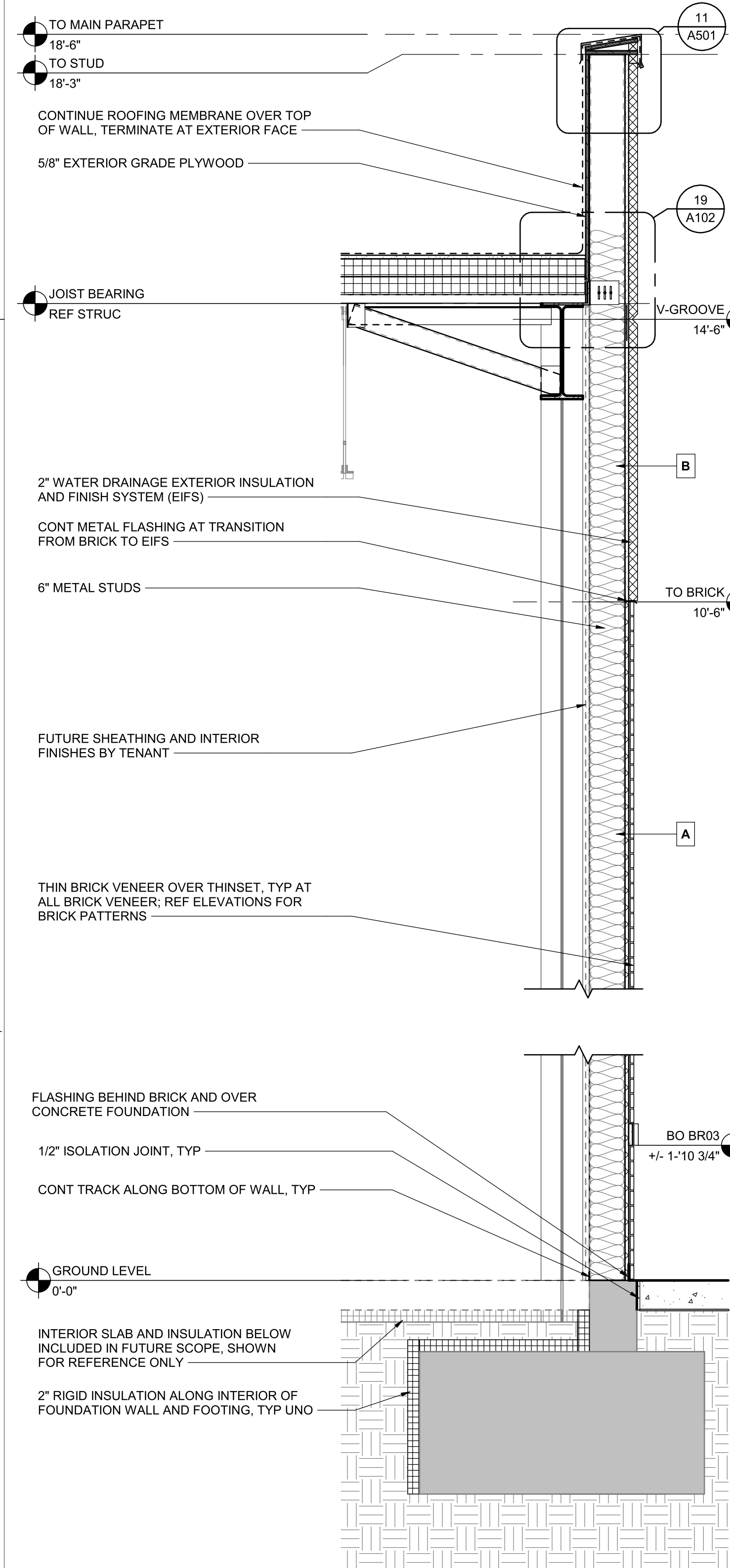
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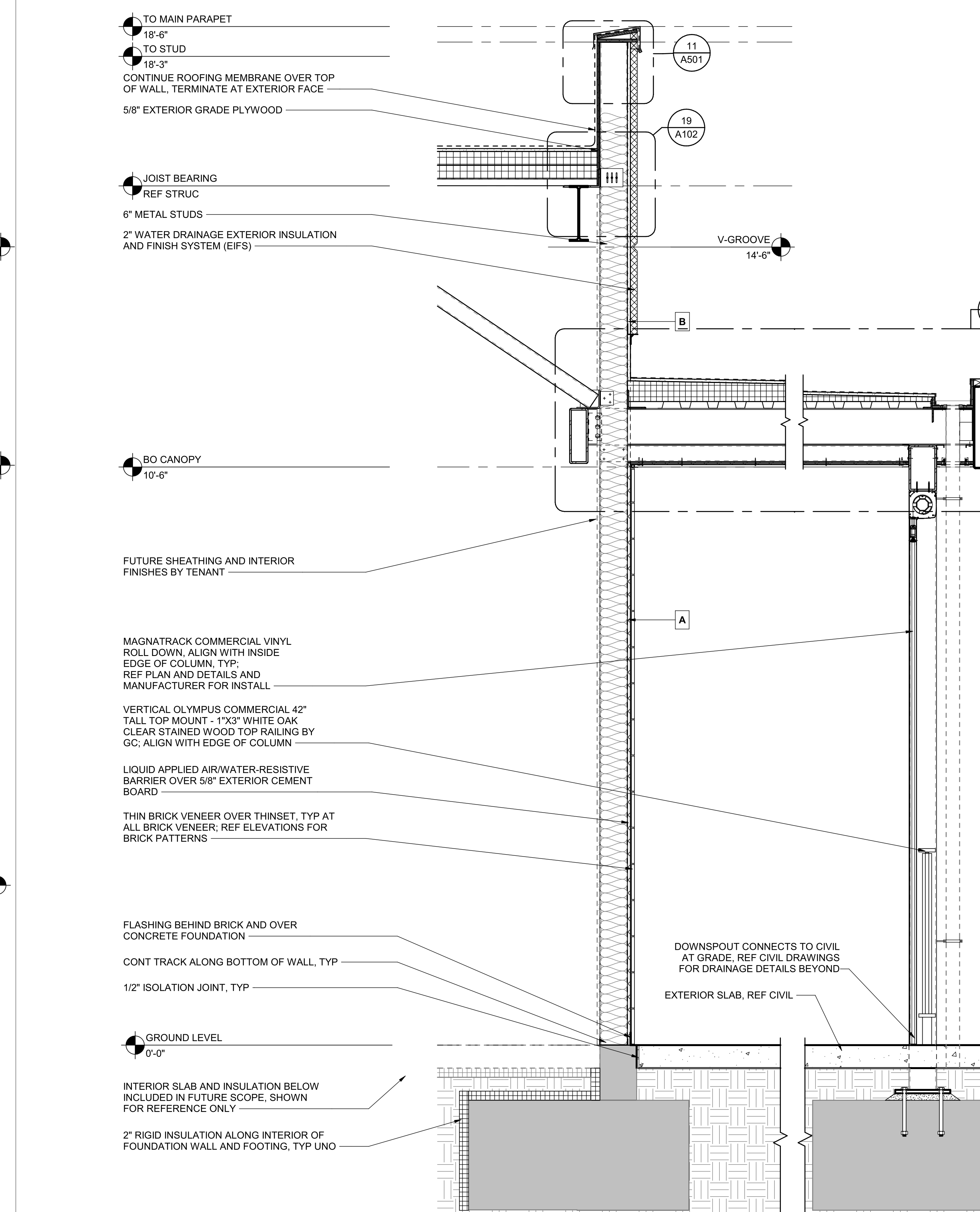




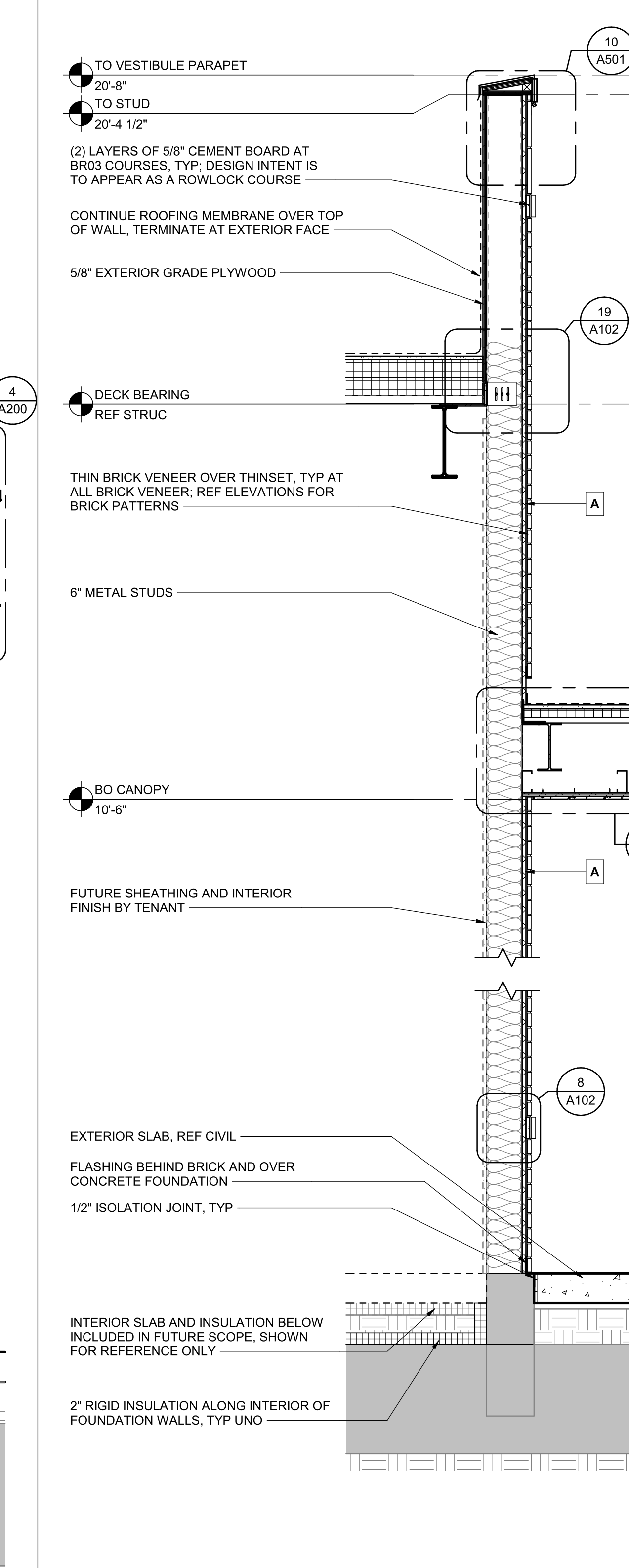
**10 EIFS**  
3/4" = 1'-0"



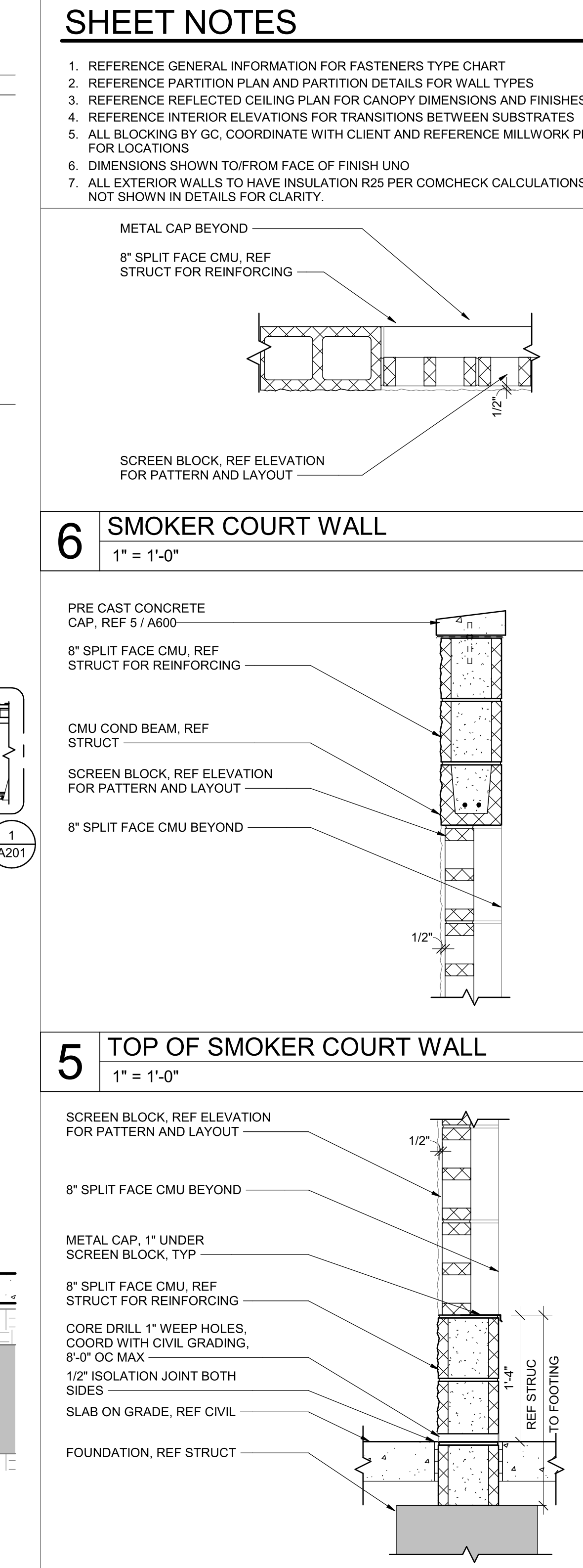
**9 WHITE BRICK/EIFS**  
3/4" = 1'-0"



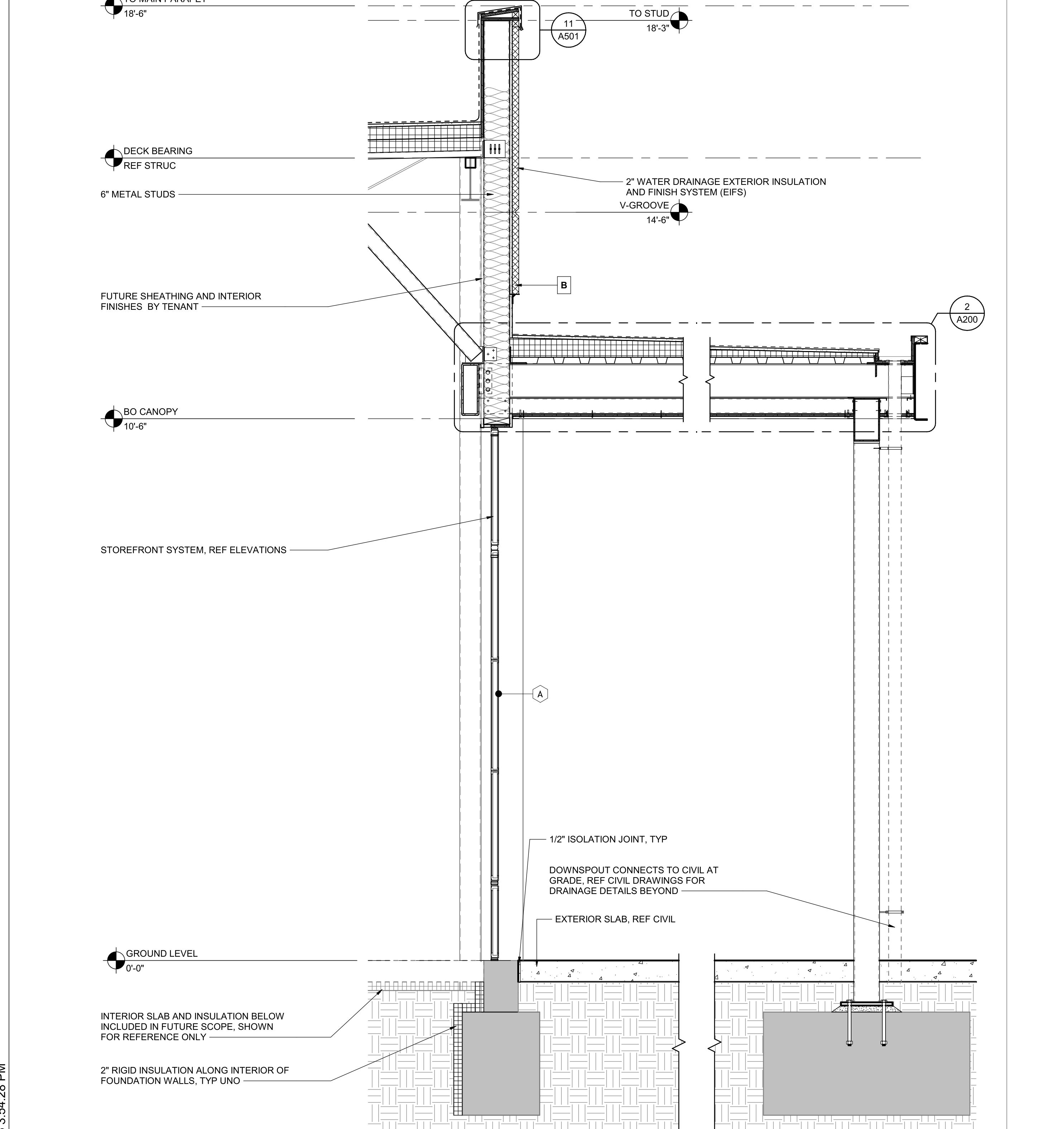
**8 BLACK BRICK/CANOPY/EIFS**  
3/4" = 1'-0"



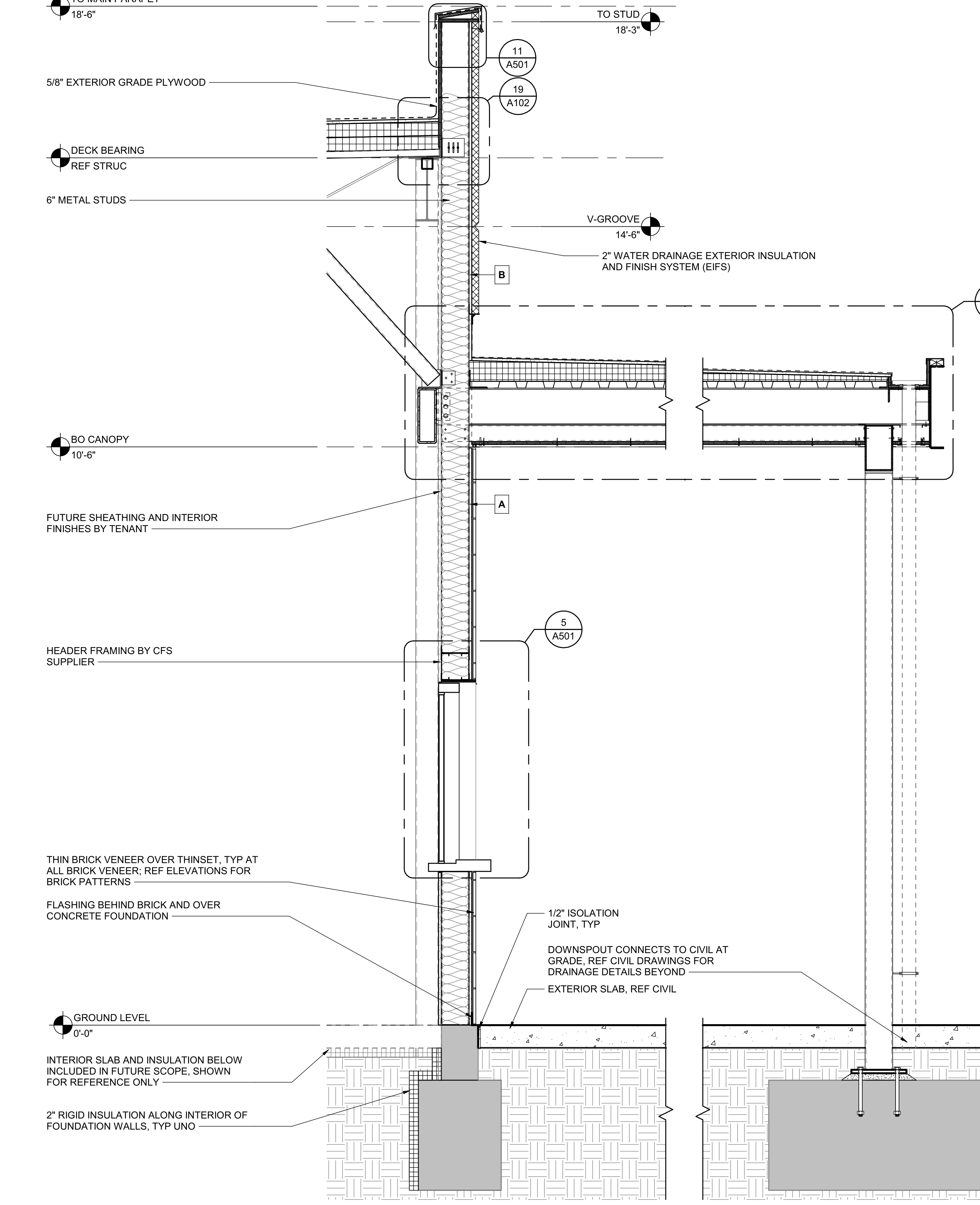
**7 WHITE BRICK/CANOPY/WHITE BRICK**  
3/4" = 1'-0"



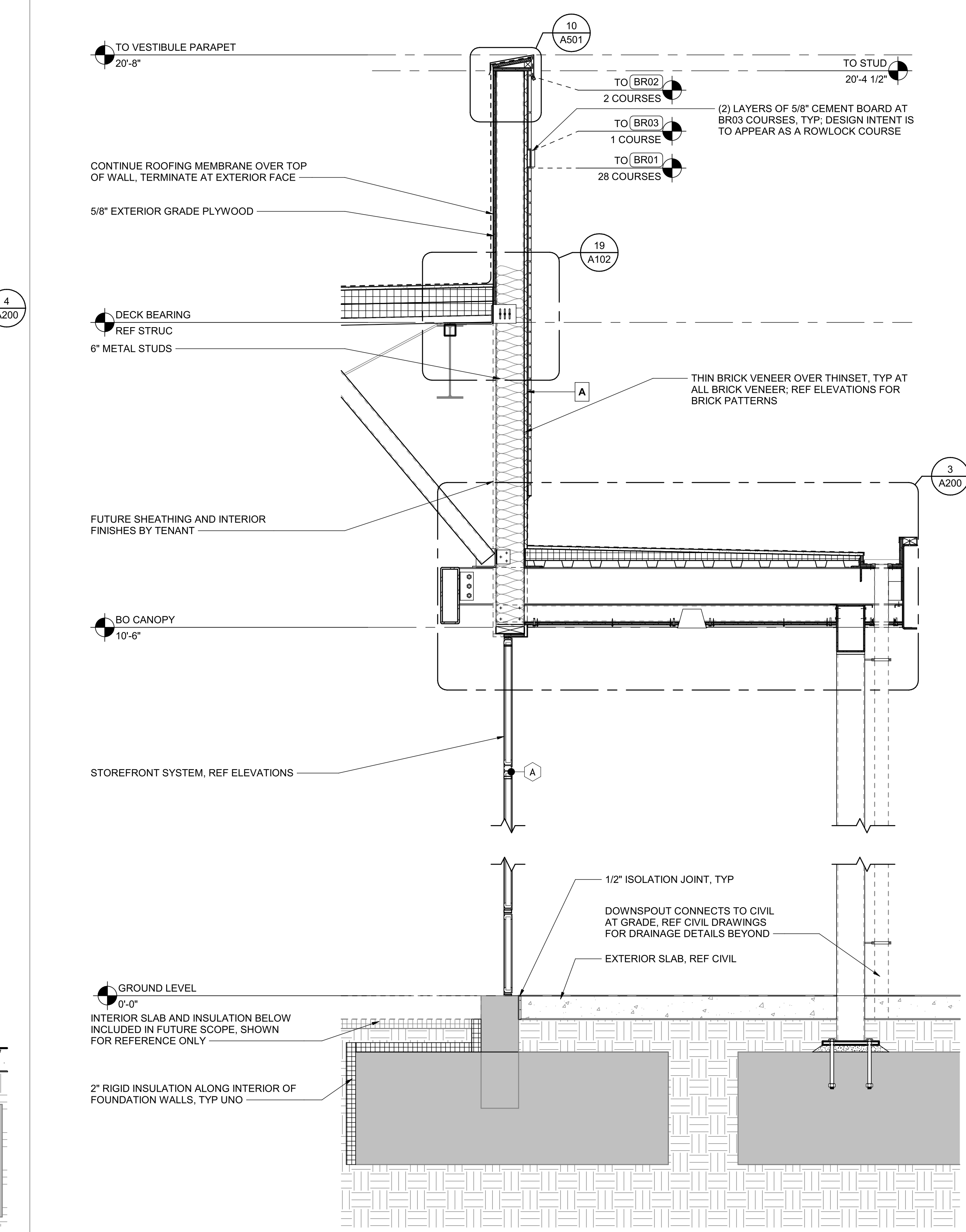
**4 BASE OF SMOKER COURT WALL**  
1" = 1'-0"



**3 STOREFRONT/CANOPY/EIFS**  
3/4" = 1'-0"



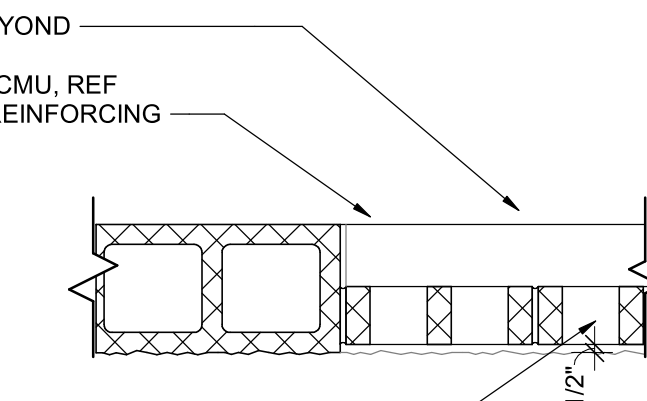
**2 PICKUP WINDOW**  
3/4" = 1'-0"



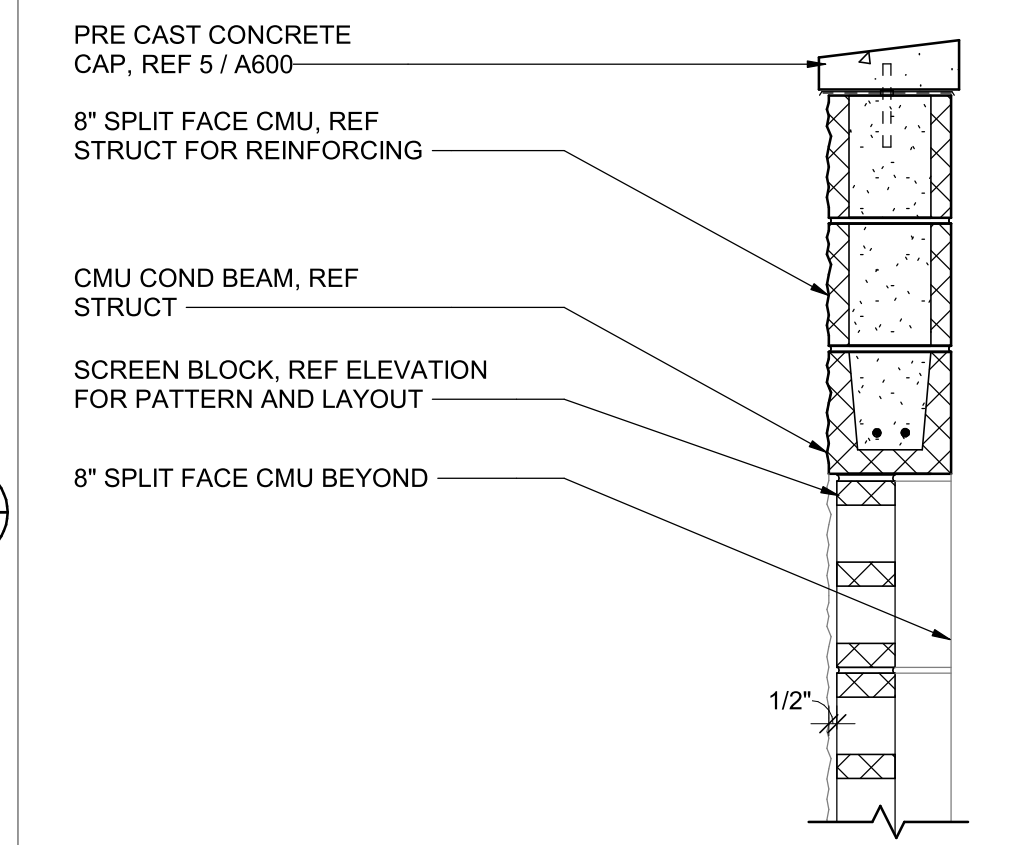
**1 STOREFRONT/CANOPY/WHITE BRICK**  
3/4" = 1'-0"

**SHEET NOTES**

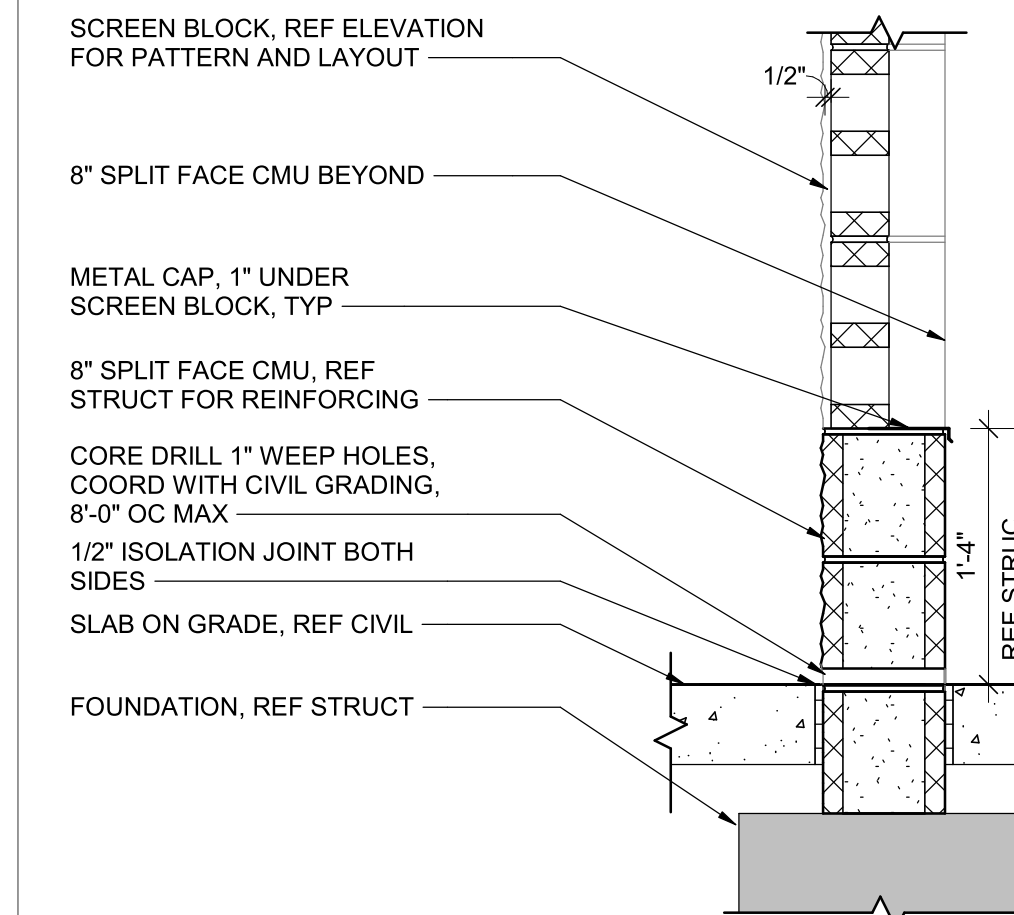
1. REFERENCE GENERAL INFORMATION FOR FASTENERS TYPE CHART
2. REFERENCE PARTITION PLAN AND PARTITION DETAILS FOR WALL TYPES
3. REFERENCE REFLECTED CEILING PLAN FOR CANOPY DIMENSIONS AND FINISHES
4. REFERENCE INTERIOR ELEVATIONS FOR TRANSITIONS BETWEEN SUBSTRATES
5. ALL BLOCKING BY GC, COORDINATE WITH CLIENT AND REFERENCE MILLWORK PLAN FOR LOCATIONS
6. DIMENSIONS SHOWN TO/FROM FACE OF FINISH UNO
7. ALL EXTERIOR WALLS TO HAVE INSULATION R25 PER COMCHECK CALCULATIONS, NOT SHOWN IN DETAILS FOR CLARITY.



**6 SMOKER COURT WALL**  
1" = 1'-0"



**5 TOP OF SMOKER COURT WALL**  
1" = 1'-0"



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CONSULTANT  
CLIENT  
PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE

PROJECT NUMBER: 62500002  
PROJECT MANAGER: TM  
DRAWN BY: ND  
CHECKED BY: [Signature]  
PROFESSIONAL SEAL



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**ISSUES AND REVISIONS**

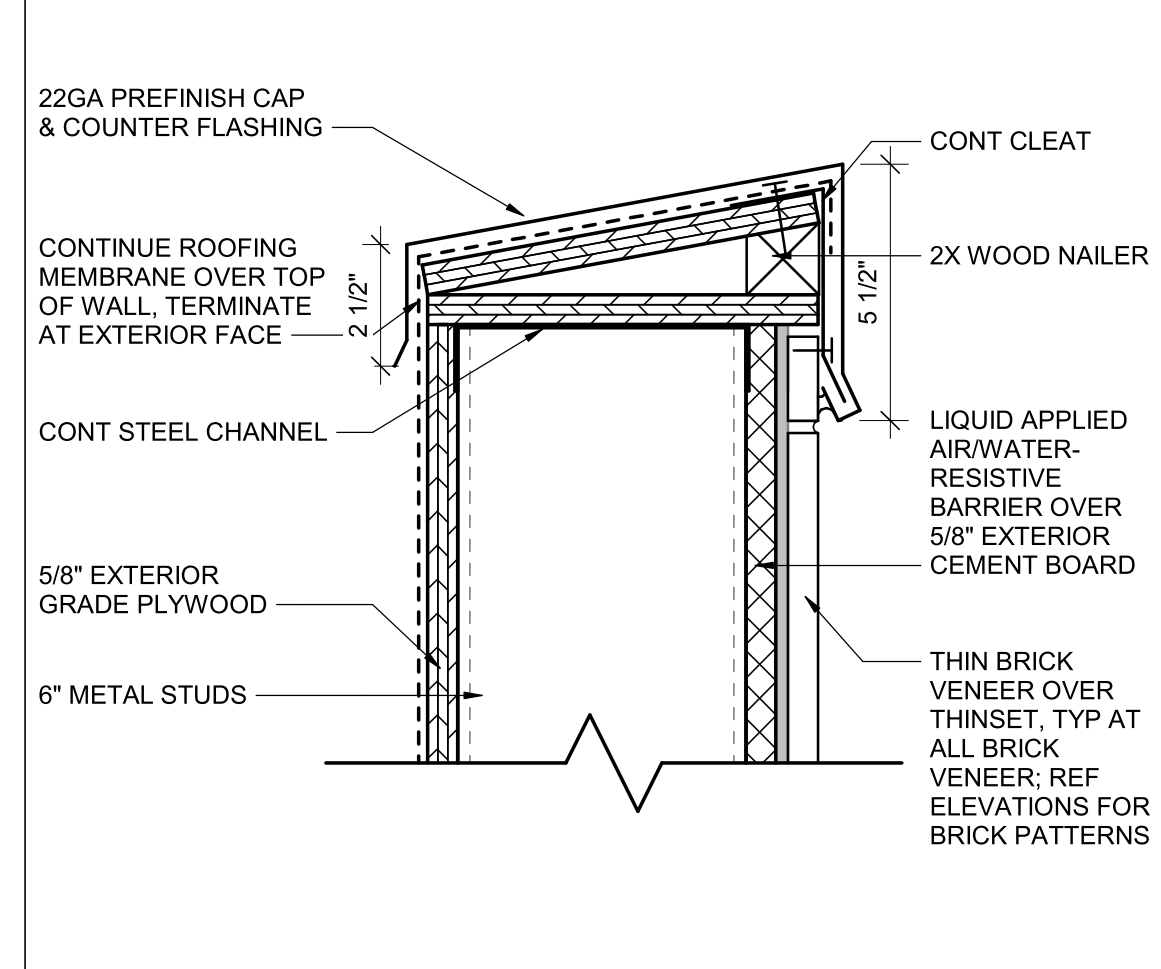
NUMBER	DATE	ISSUE	DESCRIPTION

SHEET NAME  
**WALL SECTIONS**  
SHEET NUMBER

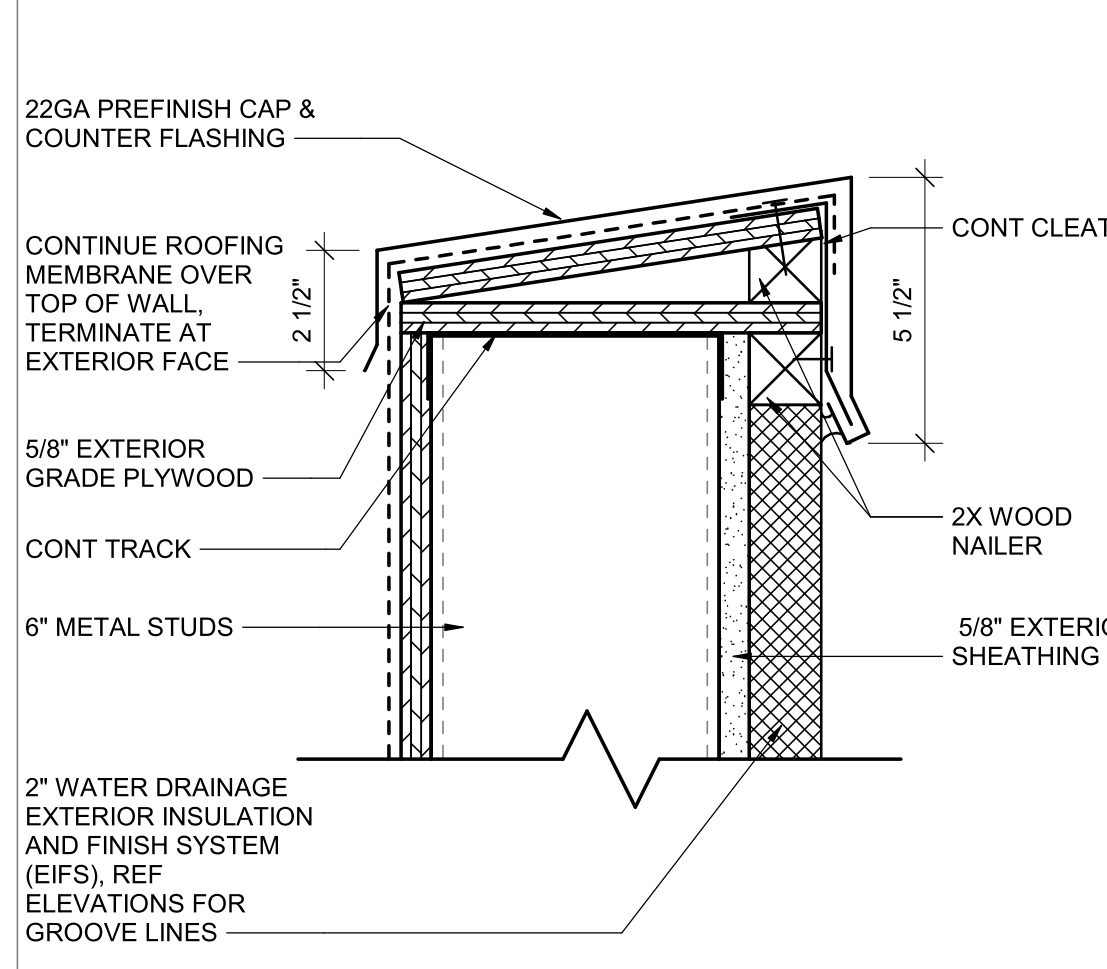
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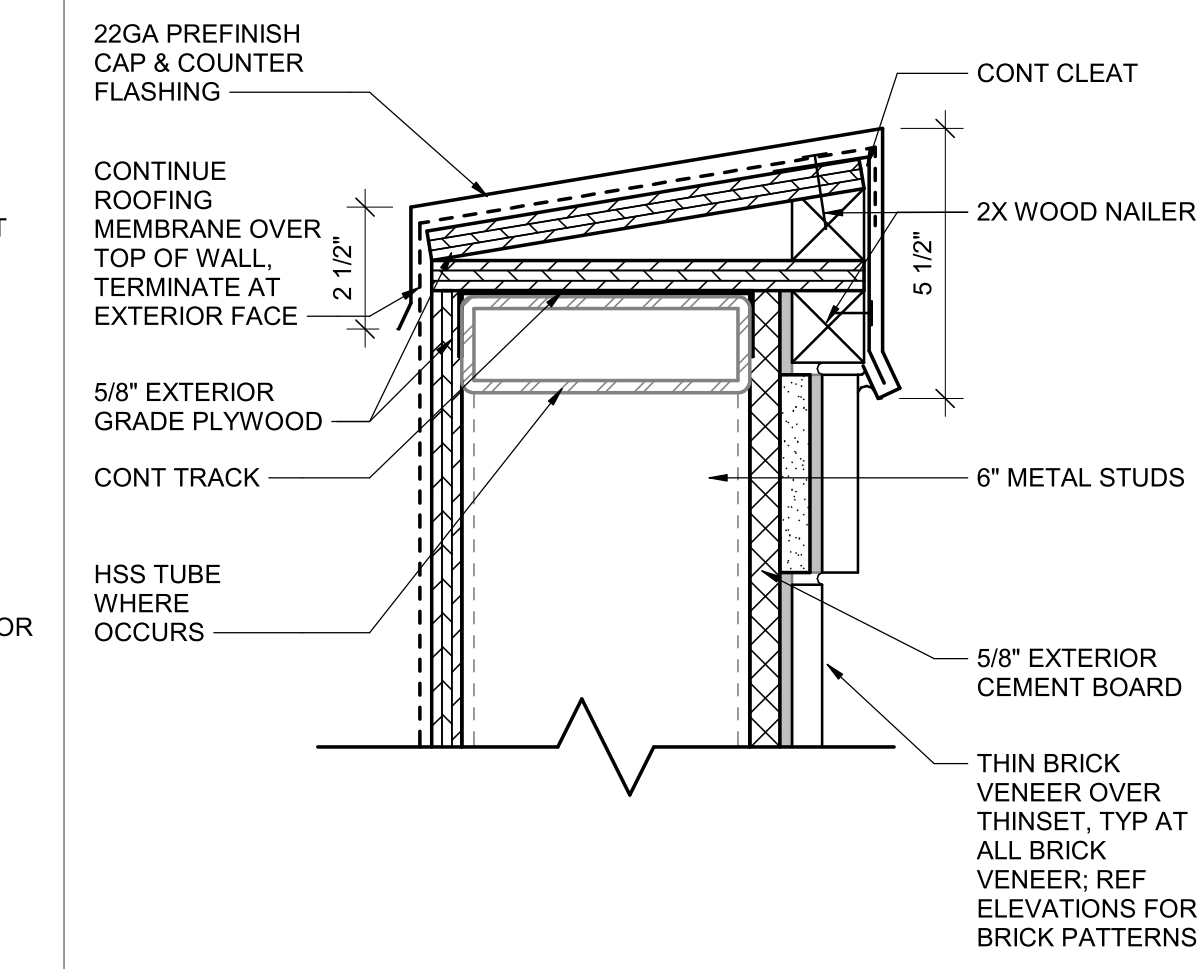
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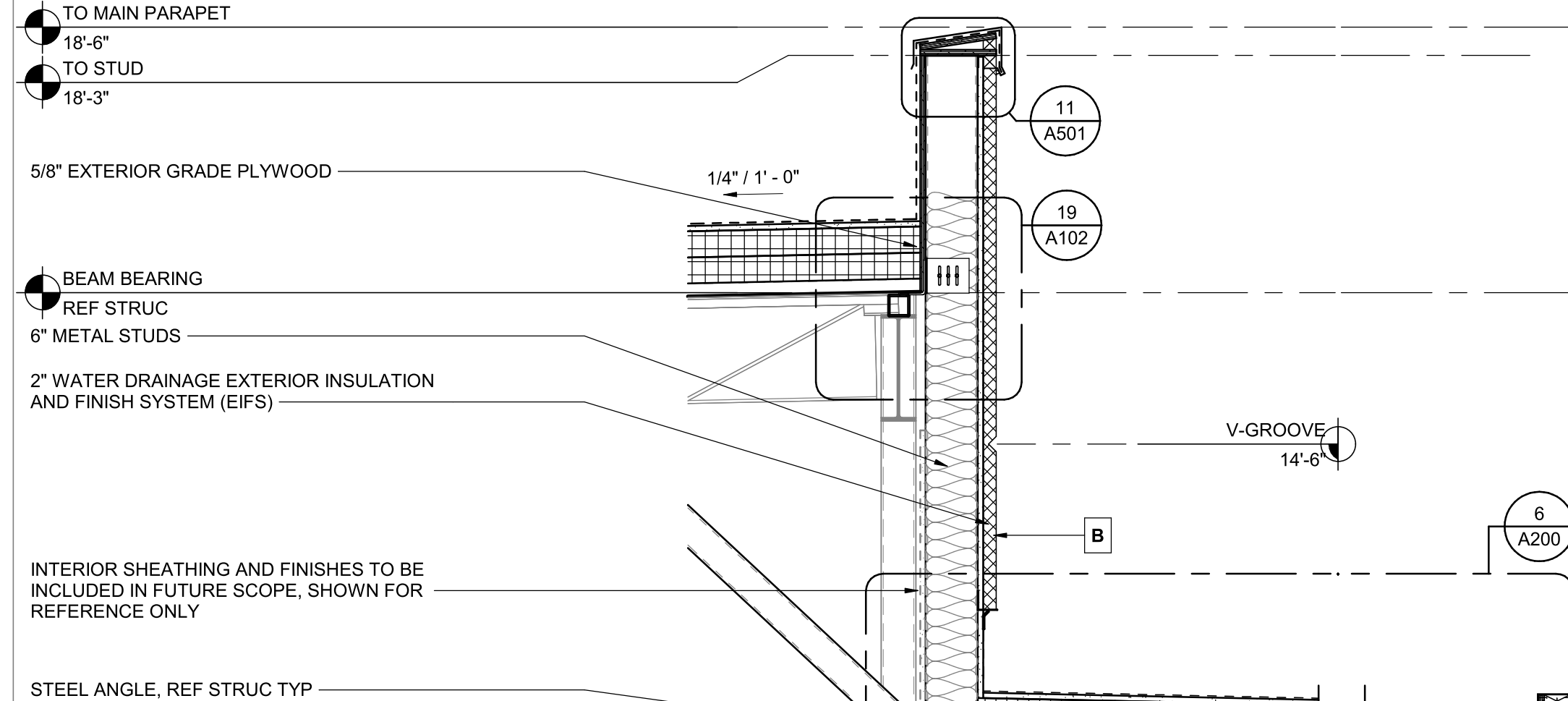
**12 PARAPET AT BLACK BRICK**  
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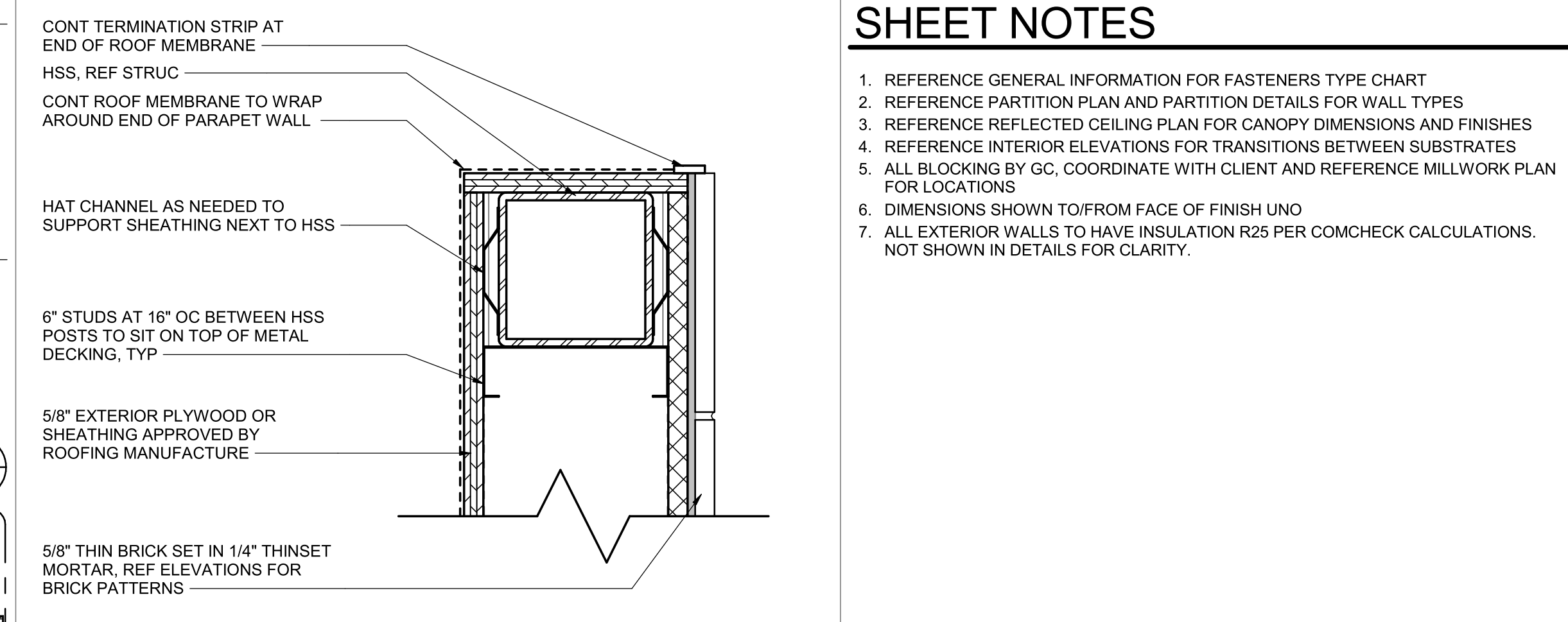
**11 PARAPET AT EIFS**  
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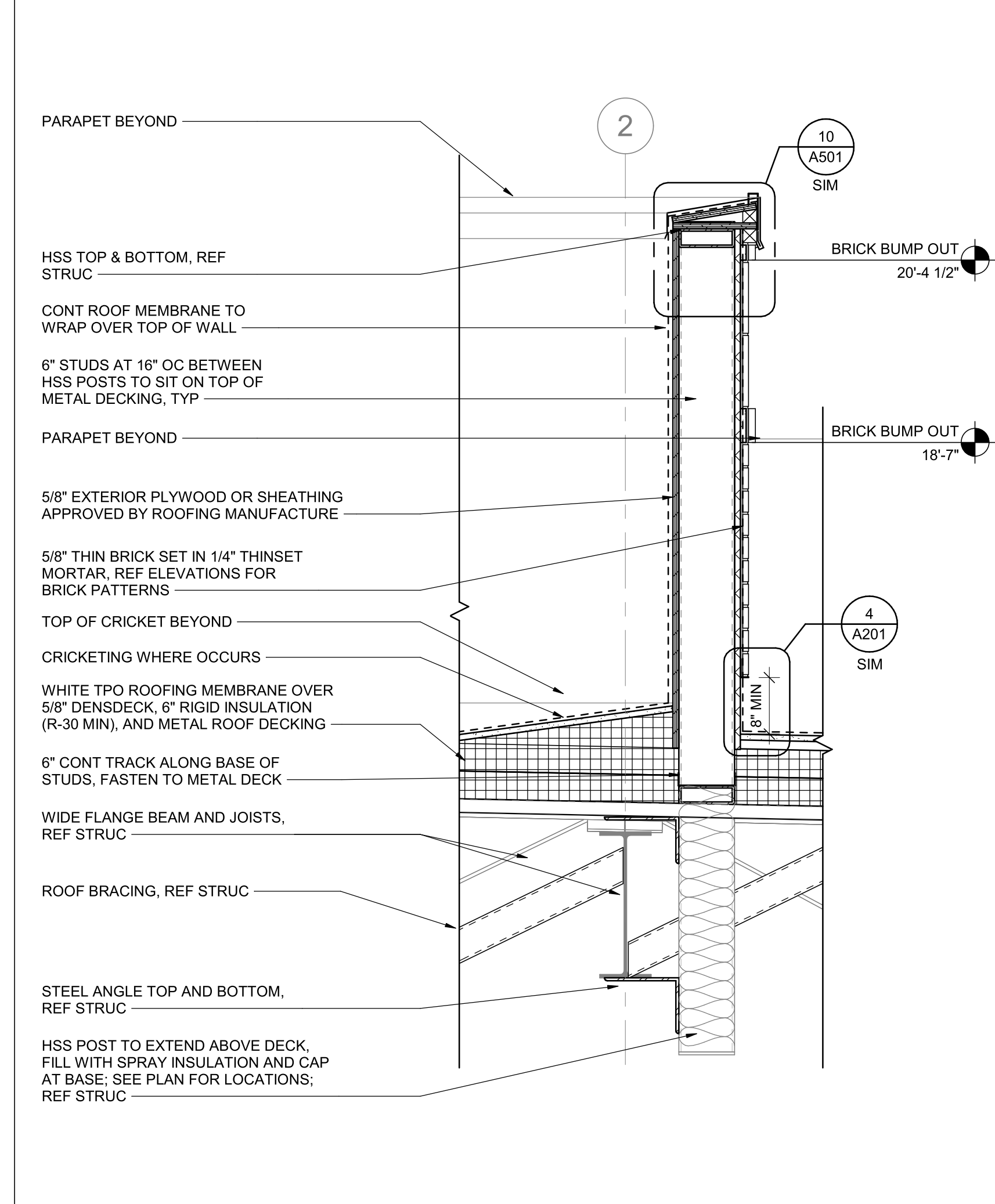
**10 PARAPET AT WHITE BRICK**  
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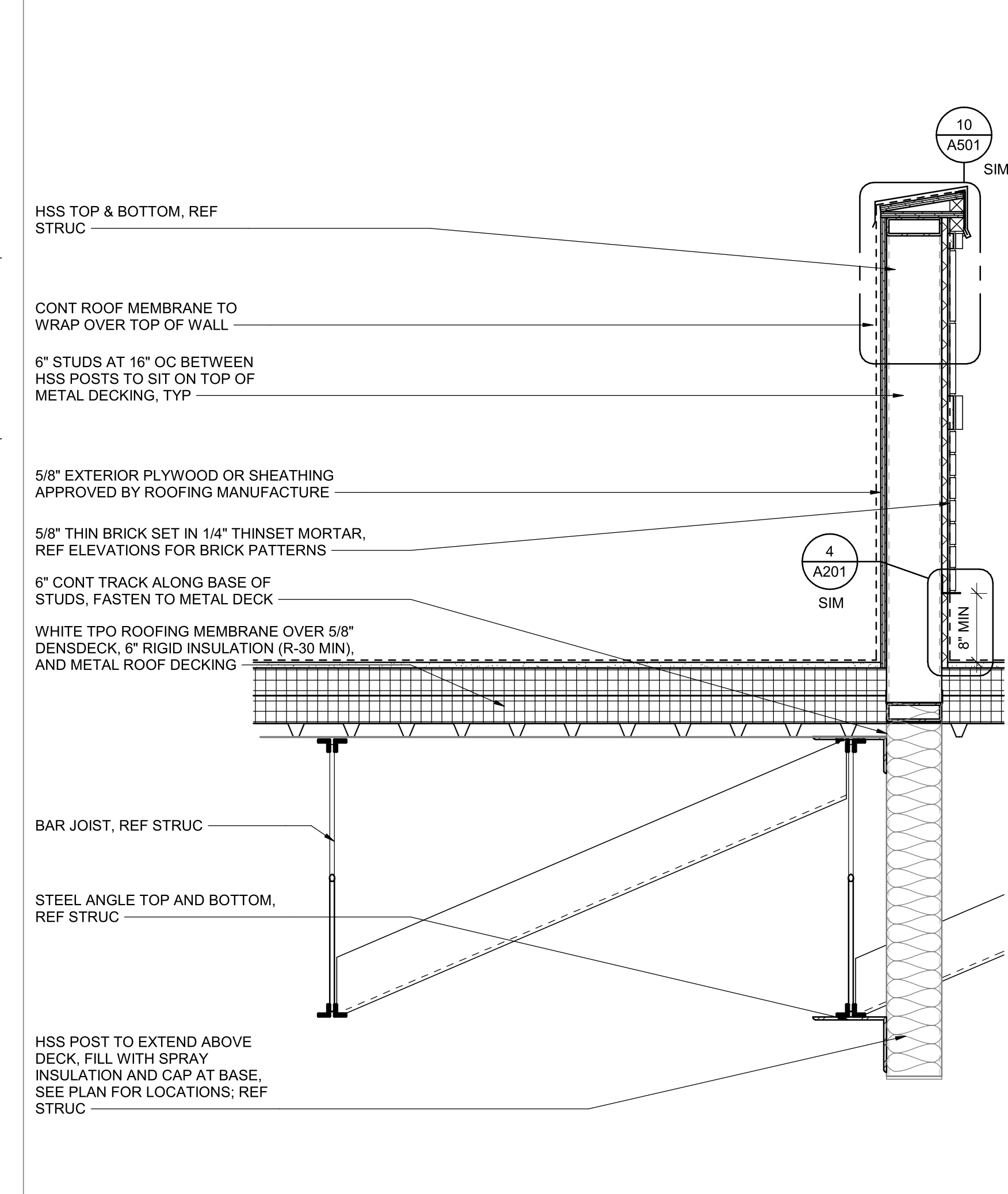
**9 PARAPET WALL END**  
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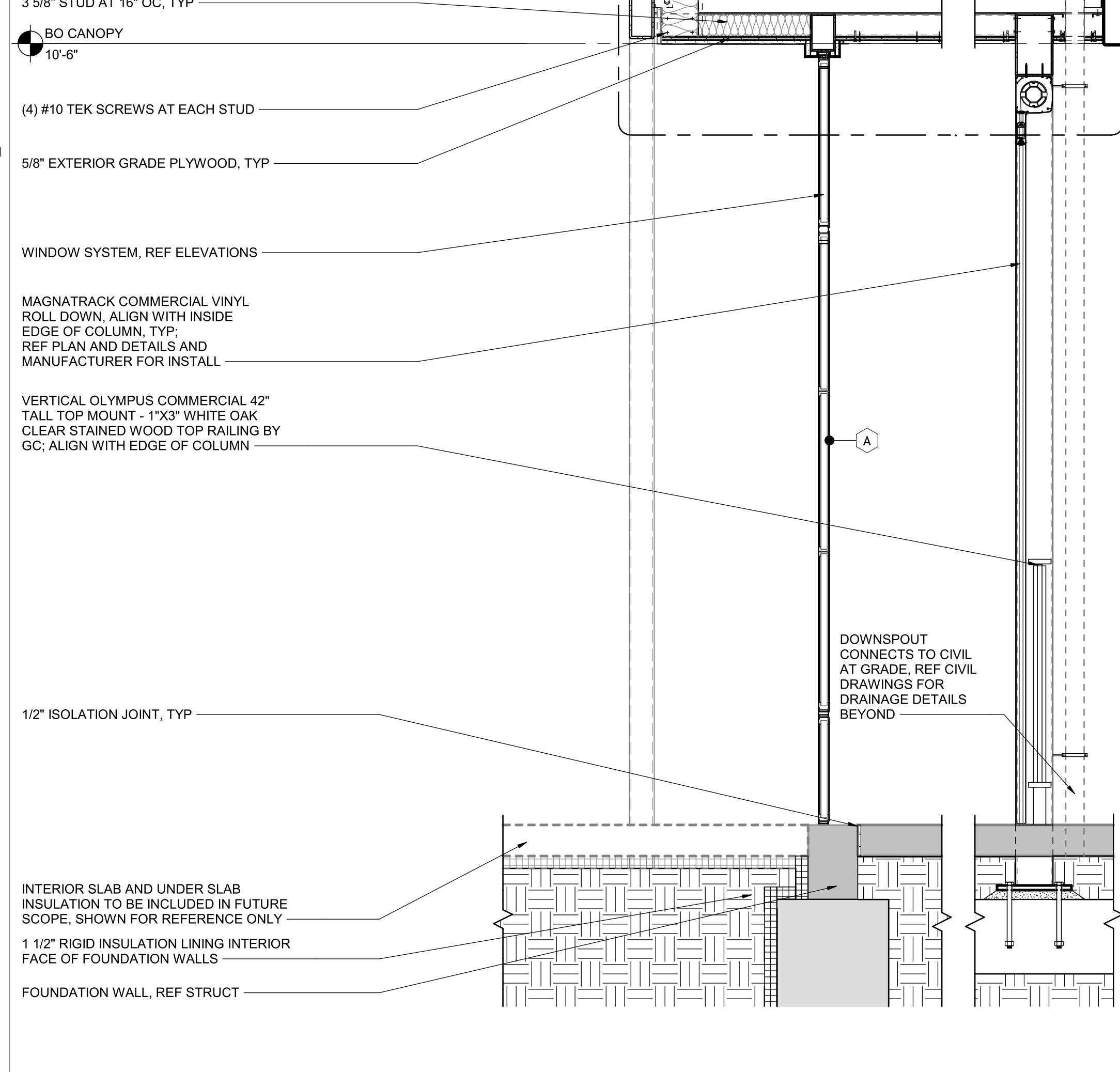
**8 PARAPET WALL ANCHOR 02**  
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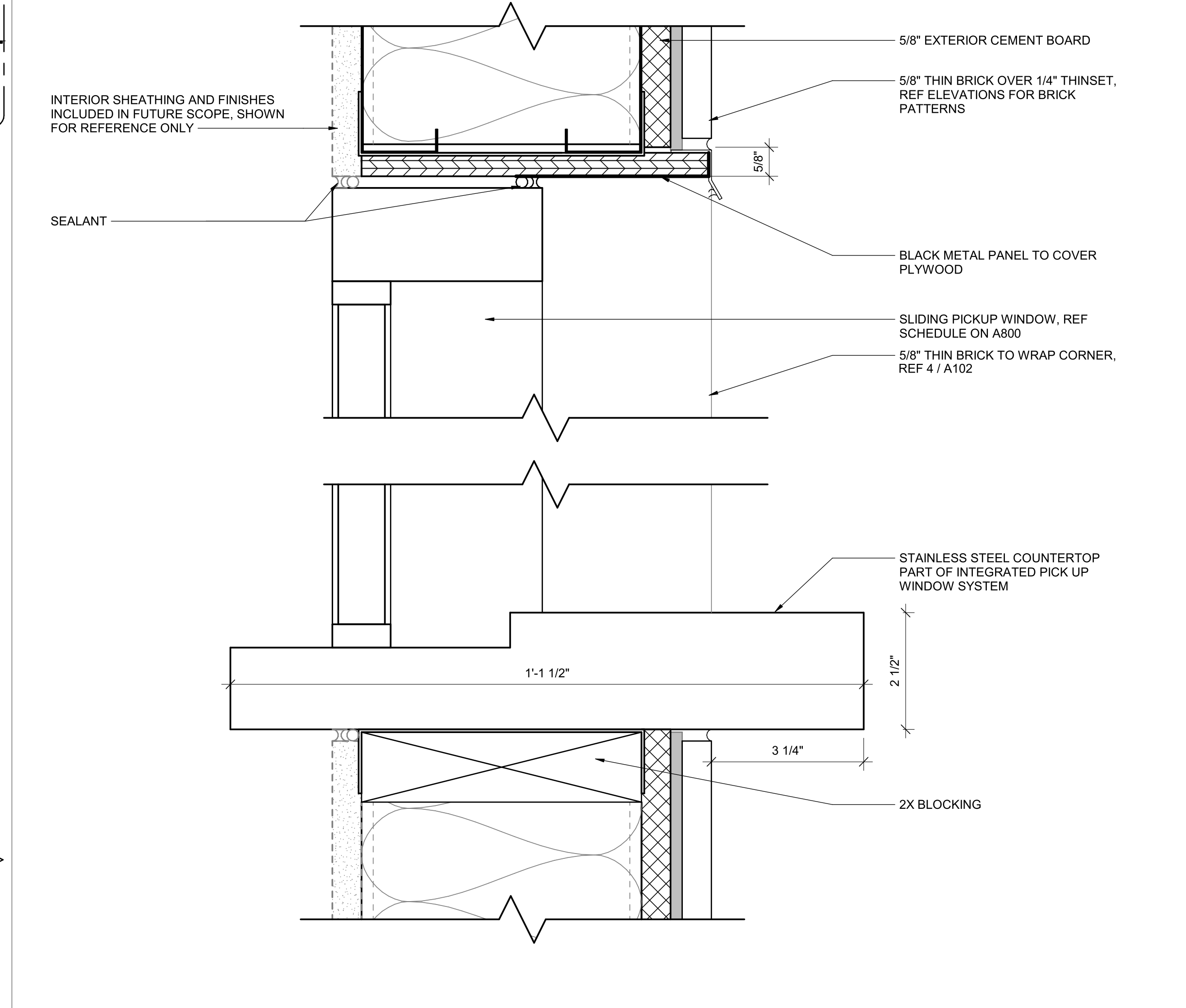
**7 PARAPET WALL ANCHOR 01**  
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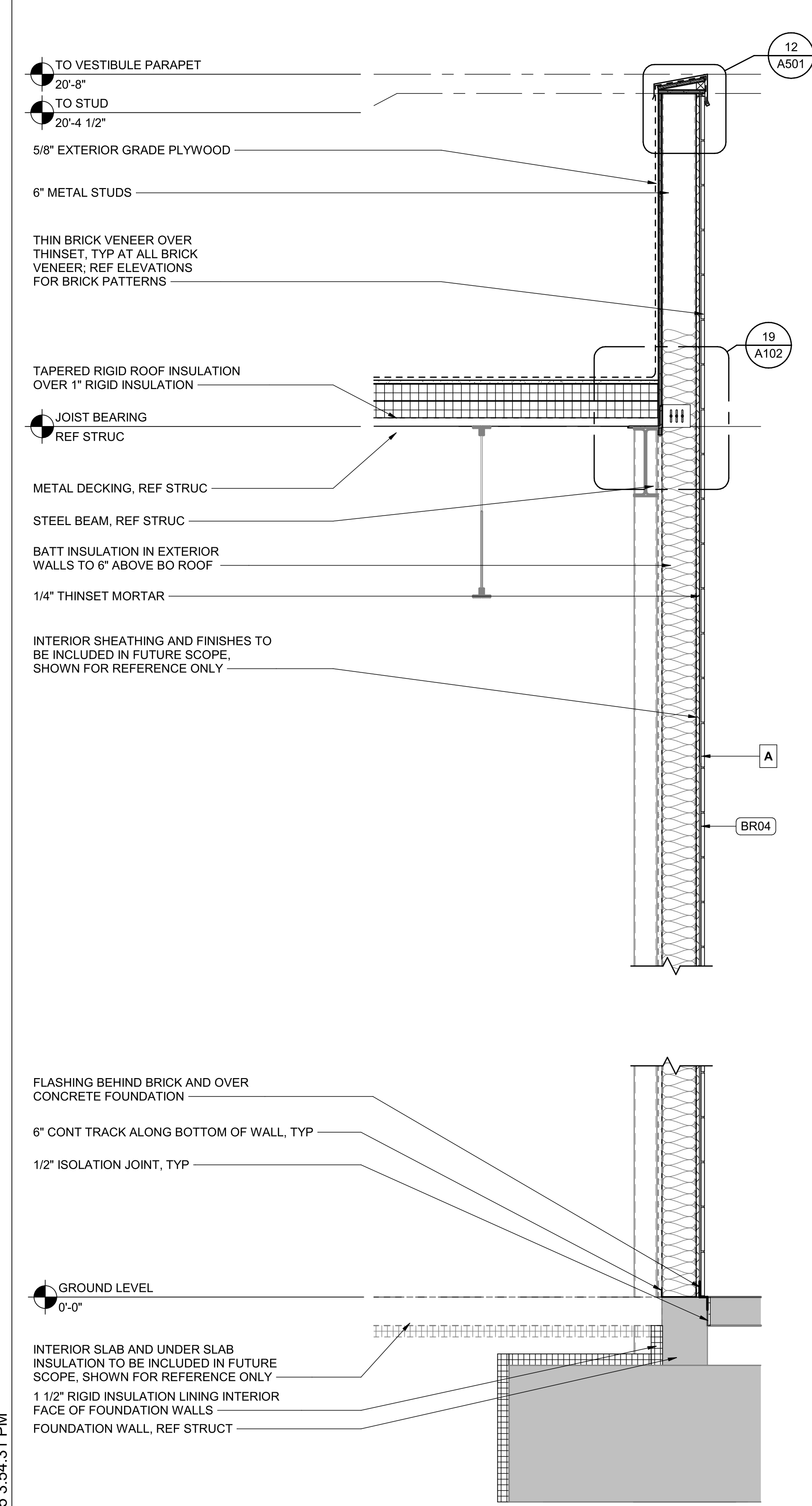
**6 DINING PROTRUSION SECTION**  
3/4\"/>



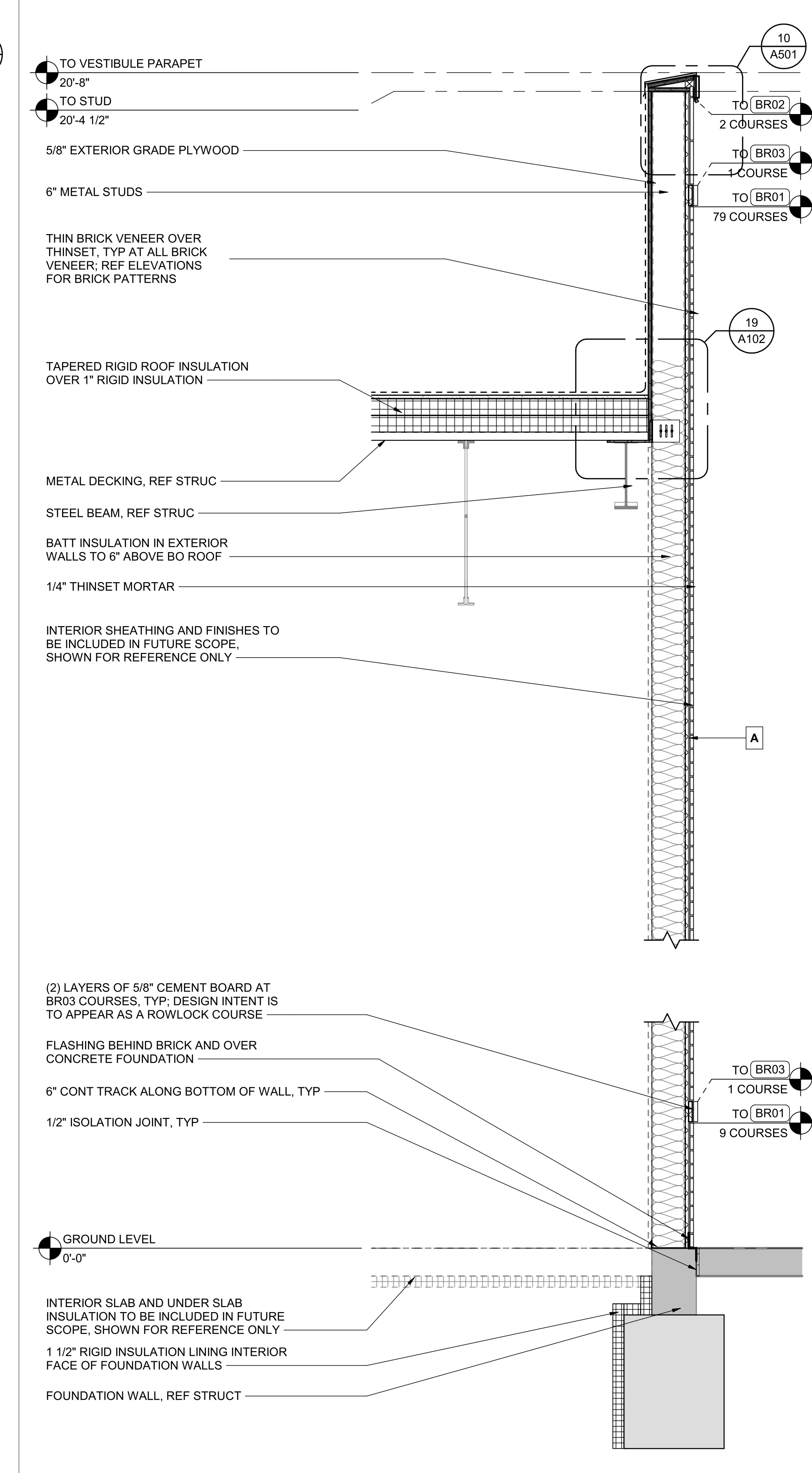
**5 PICKUP WINDOW SILL & HEAD**  
6\"/>



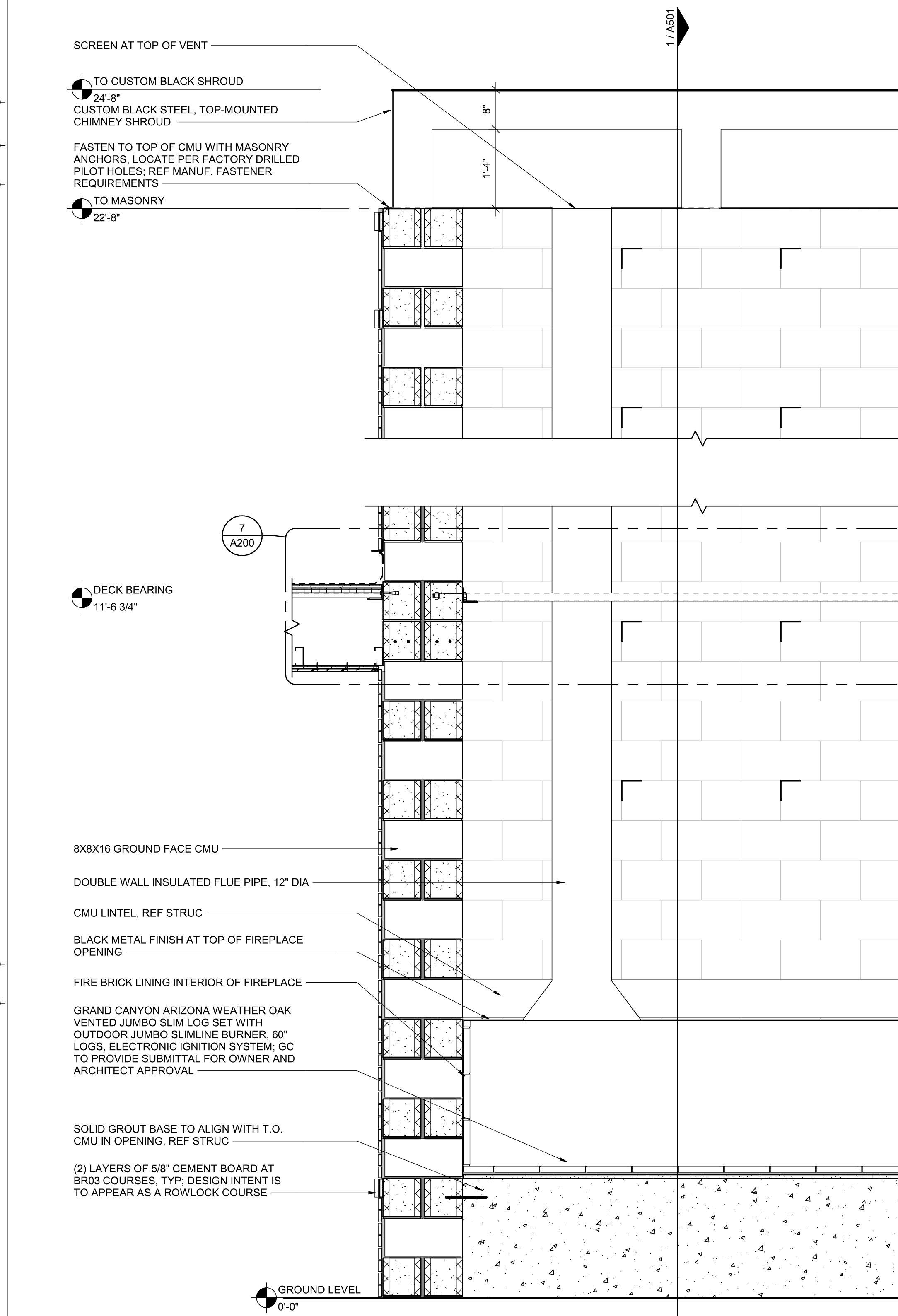
**4 FULL HEIGHT BLACK BRICK**  
3/4\"/>



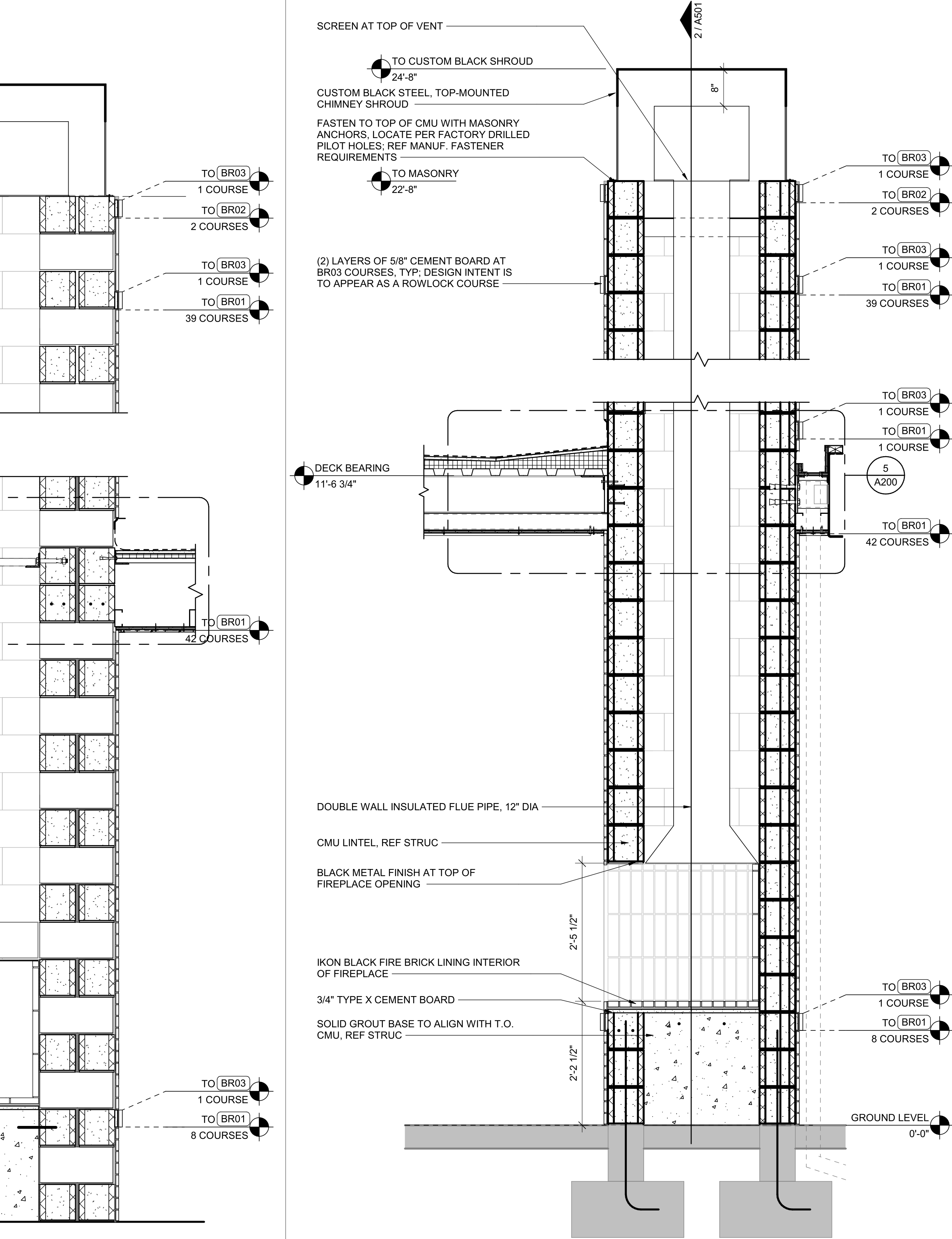
**3 FULL HEIGHT WHITE BRICK**  
3/4\"/>



**2 FIREPLACE SECTION 02**  
3/4\"/>



**1 FIREPLACE SECTION 01**  
3/4\"/>



**1 FIREPLACE SECTION 01**  
3/4\"/>

**SHEET NOTES**

1. REFERENCE GENERAL INFORMATION FOR FASTENERS TYPE CHART
2. REFERENCE PARTITION PLAN AND PARTITION DETAILS FOR WALL TYPES
3. REFERENCE REFLECTED CEILING PLAN FOR CANOPY DIMENSIONS AND FINISHES
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5. ALL BLOCKING BY GC. COORDINATE WITH CLIENT AND REFERENCE MILLWORK PLAN FOR LOCATIONS
6. DIMENSIONS SHOWN TO/FROM FACE OF FINISH UNO
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CONSULTANT

CLIENT

PROJECT TITLE

**Q39 (SHELL)**

**LEE'S SUMMIT, MO**

OLDHAM VILLAGE

PROJECT NUMBER	62500002
PROJECT MANAGER	TM
DRAWN BY	ND
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**ISSUES AND REVISIONS**

NUMBER	DATE	ISSUE	ORIGINAL ISSUE

SHEET NAME

**WALL SECTIONS**

SHEET NUMBER

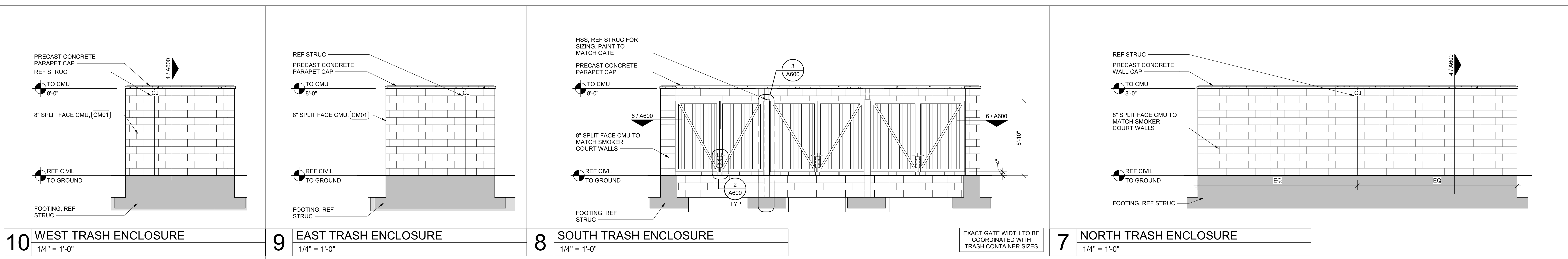
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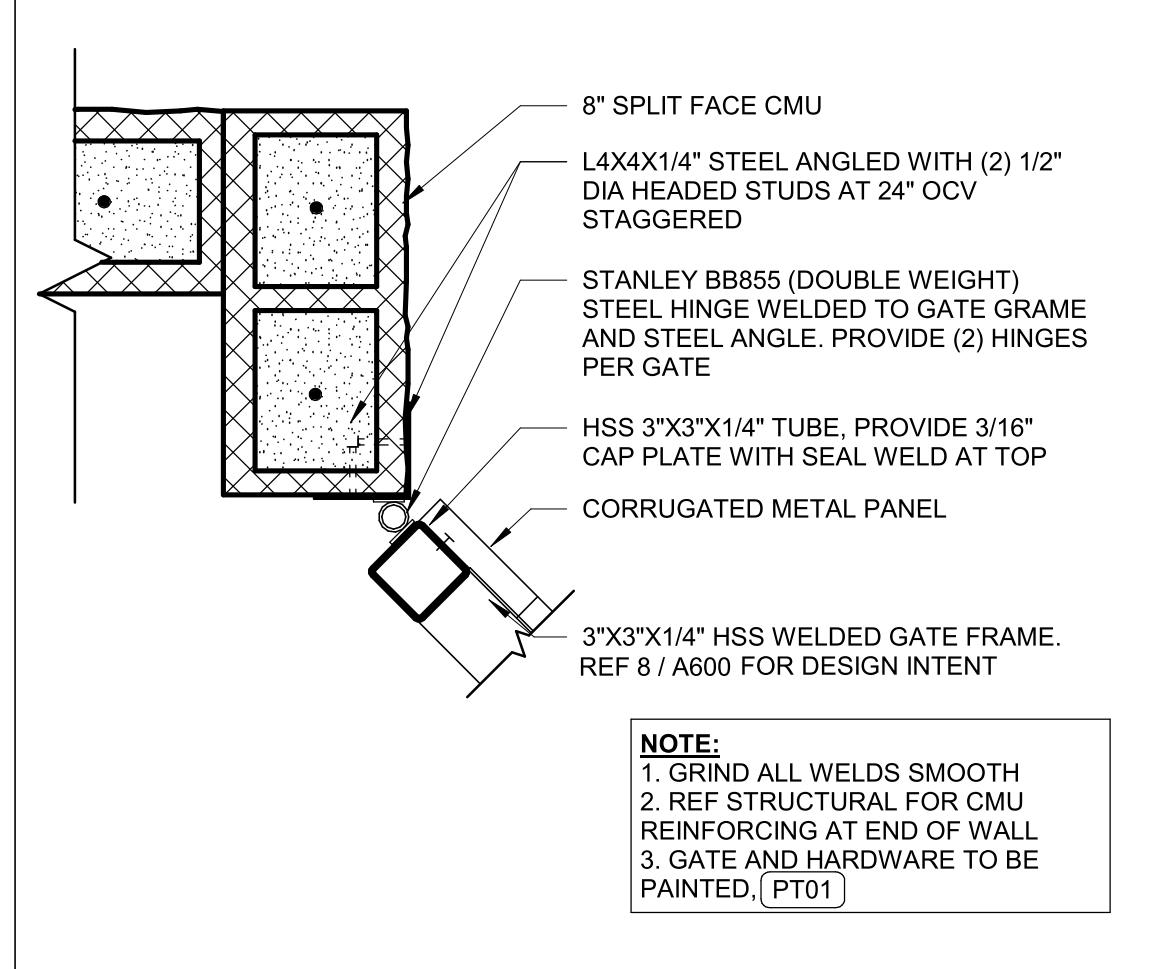
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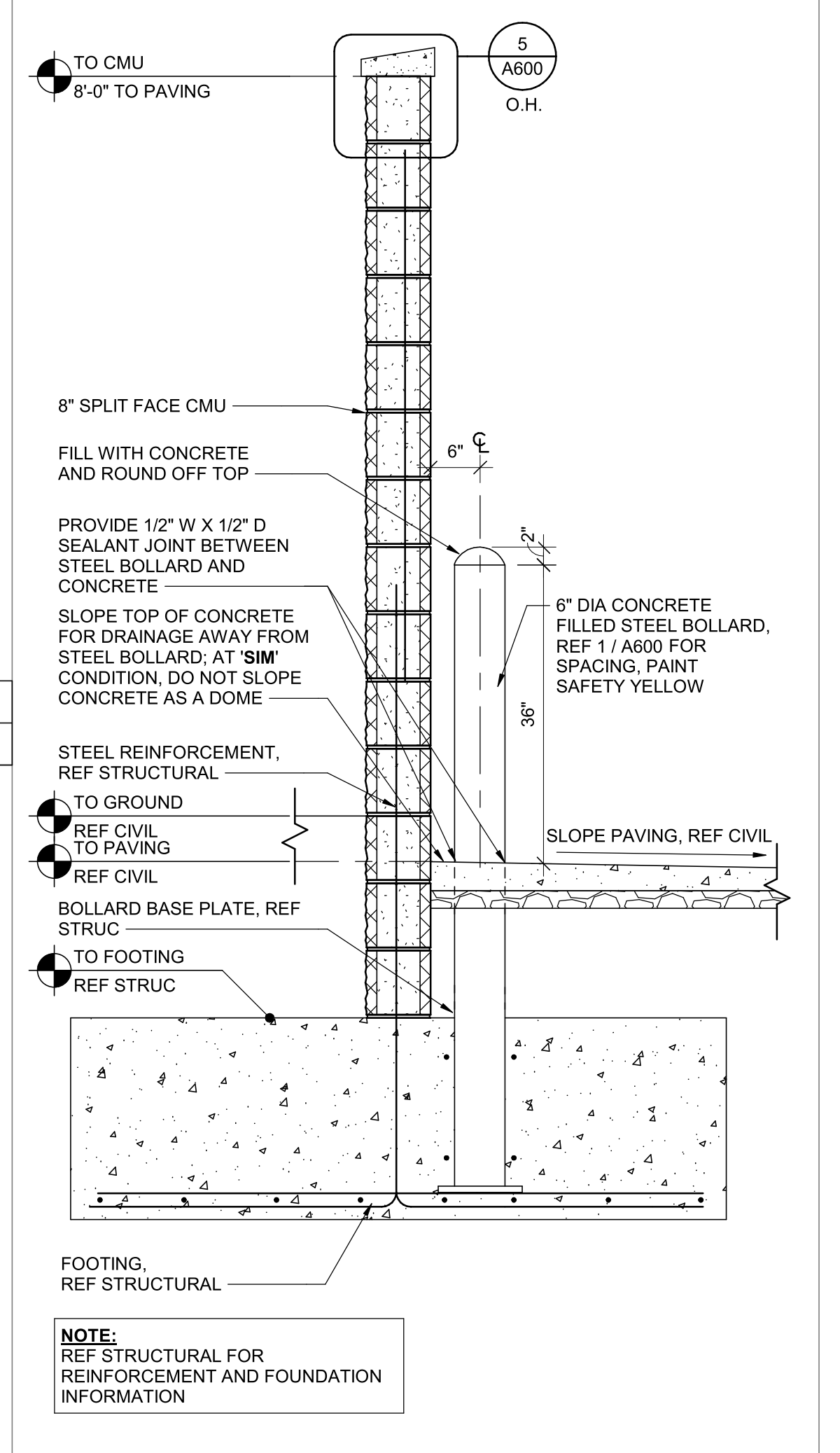
**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE



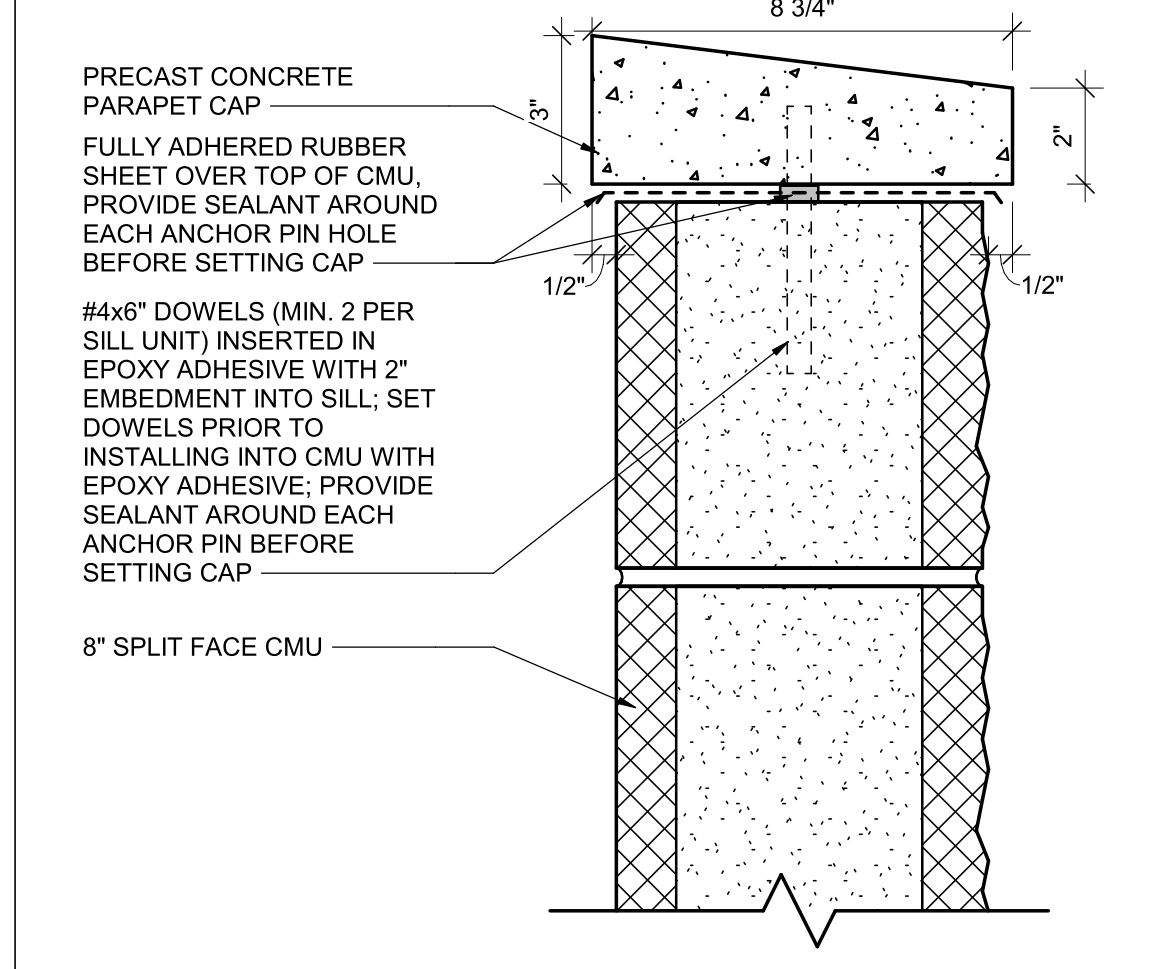
**10 WEST TRASH ENCLOSURE** 1/4" = 1'-0"  
**9 EAST TRASH ENCLOSURE** 1/4" = 1'-0"  
**8 SOUTH TRASH ENCLOSURE** 1/4" = 1'-0"  
**7 NORTH TRASH ENCLOSURE** 1/4" = 1'-0"



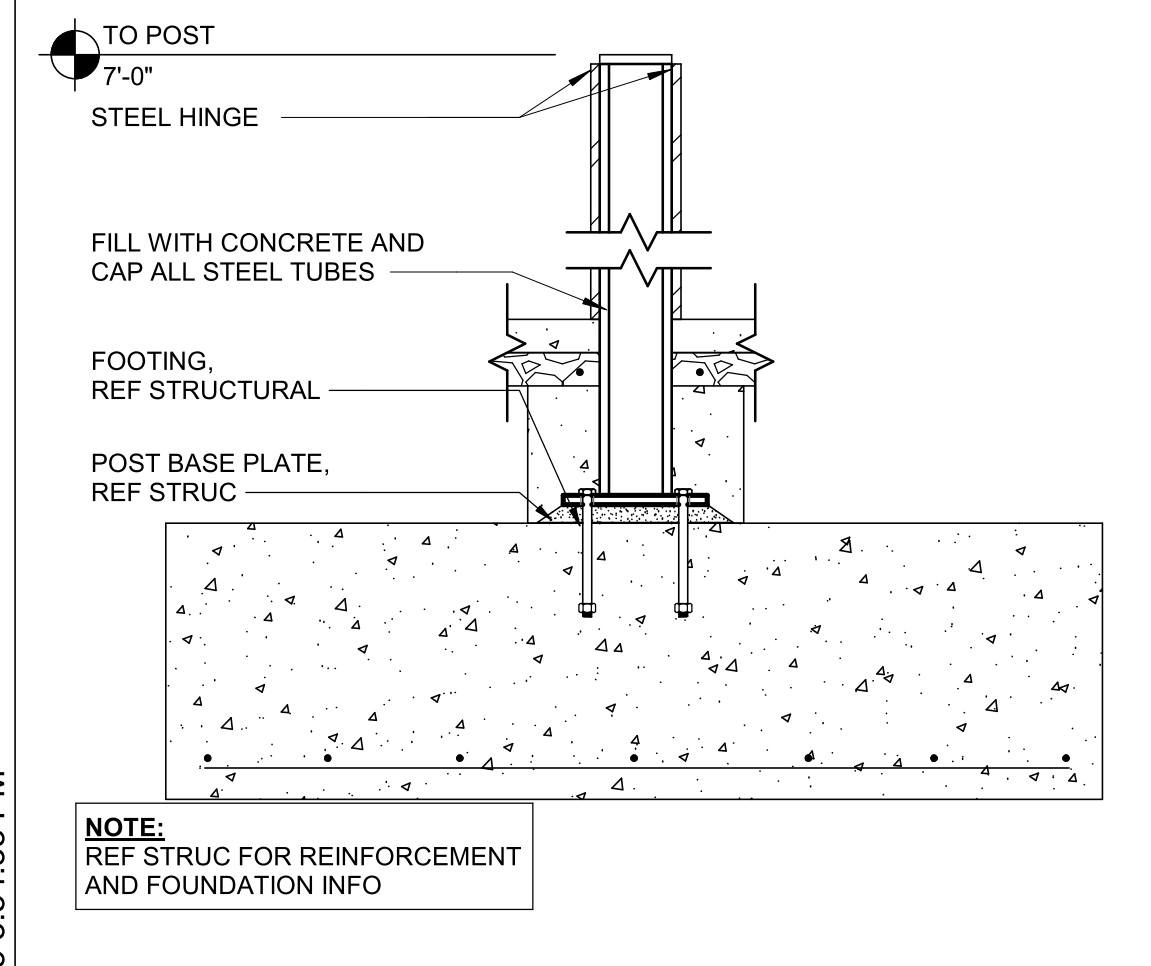
**6 GATE HINGE POST** 1 1/2" = 1'-0"



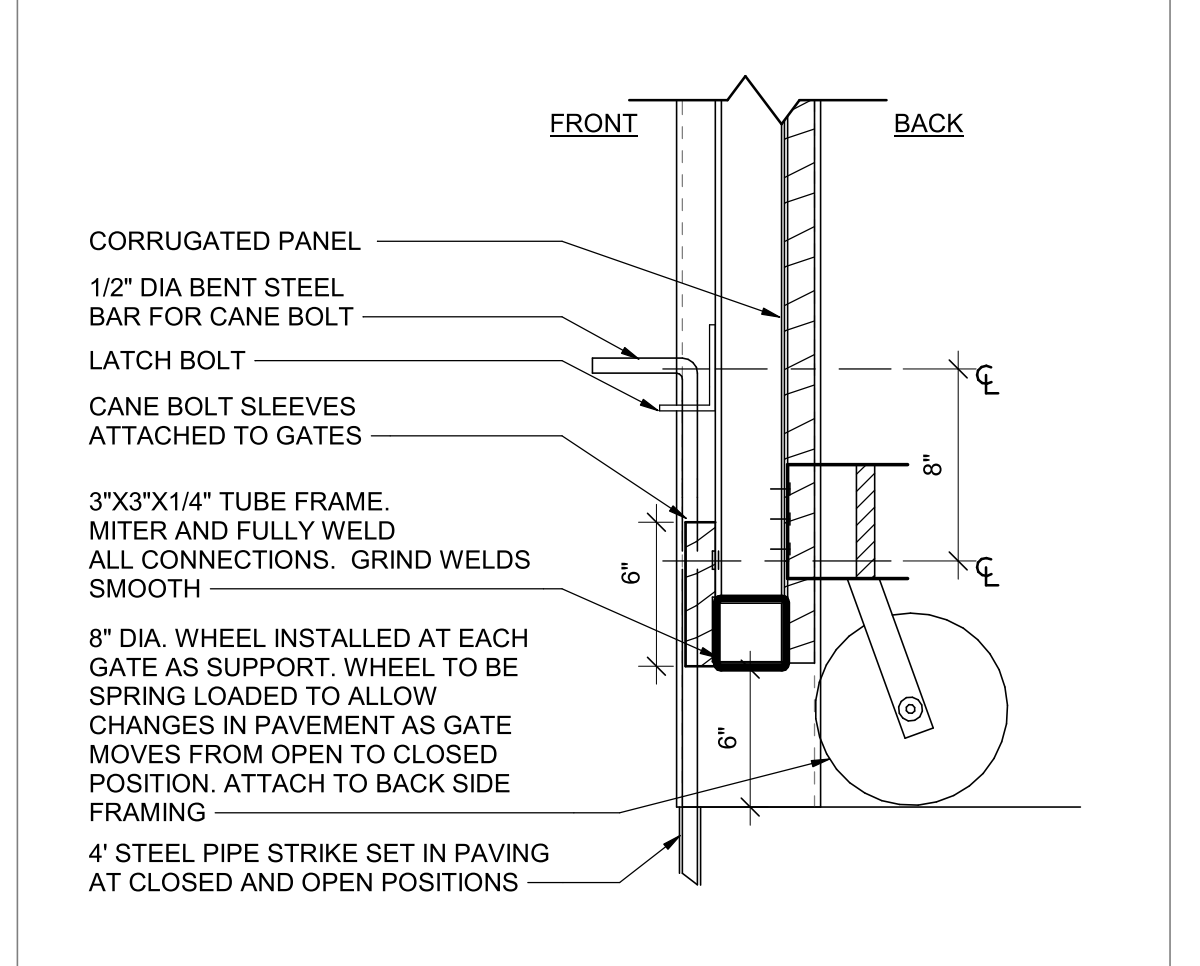
**4 ENCLOSURE SECTION** 3/4" = 1'-0"



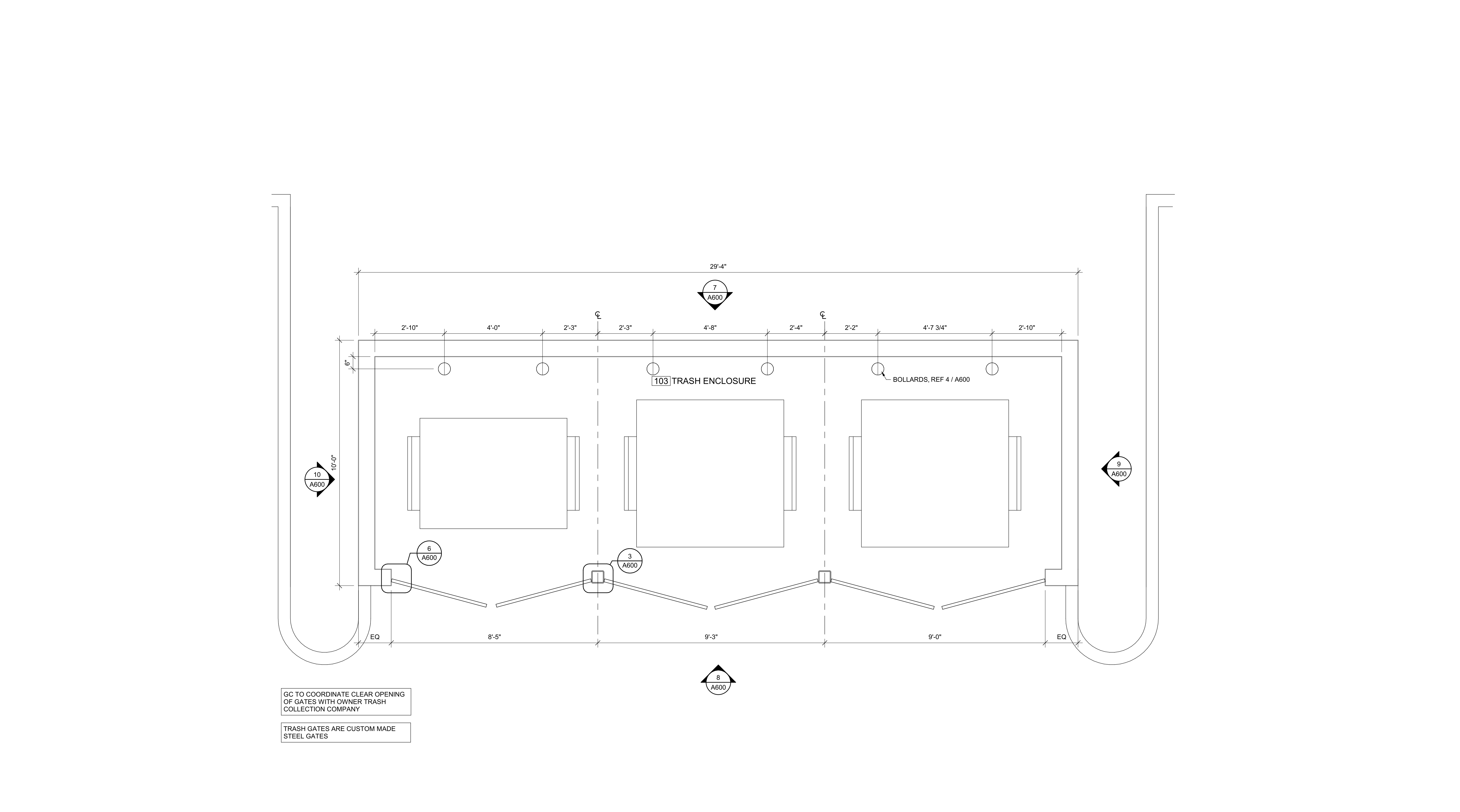
**5 WALL CAP DETAIL** 3" = 1'-0"



**3 CENTER POST** 3/4" = 1'-0"



**2 GATE CANE BOLT** 1 1/2" = 1'-0"



**1 TRASH ENCLOSURE PLAN** 1/2" = 1'-0"

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ISSUES AND REVISIONS			
NUMBER	DATE	ISSUE	DESCRIPTION

**TRASH ENCLOSURE PLAN AND DETAILS**  
 SHEET NUMBER

**A600**

**SHEET NOTES**

1. ALL INTERIOR AND EXTERIOR PLAN DIMENSIONS ARE TO FACE OF FINISH, UNO
2. ALL JOINTS BETWEEN DISSIMILAR MATERIALS SHALL BE SEALED AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS, SUCH JOINTS NOT SHOWN OR SCHEDULED SHALL BE SEALED WITH SEALANTS CONSISTENT WITH SPECIFIED MATERIALS OR AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIC APPLICATION
3. INTERIOR FINISH OF EXTERIOR STUD WALLS TO BE INCLUDED IN FUTURE SCOPE UNDER A SEPARATE PERMIT
4. ALL SCOLLARS, RAILS, BARRIERS, OR GUARDS ARE USED ONLY TO PROVIDE VISUAL CUES SEPARATING PEDESTRIAN, EQUIPMENT, AND VEHICLE AREAS AND ARE NOT INTENDED TO COMPLY WITH ASCE, ASTM F3016, ASTM F2556, OR ANY PROVISION ESTABLISHING, TESTING, OR RATING REQUIREMENTS FOR VEHICLE IMPACT
5. REFERENCE DOOR AND WINDOW INFORMATION FOR ADDITIONAL INFORMATION
6. LOCATE INTERIOR DOORS 4" OFF ADJACENT WALL BEHIND HINGE, UNO
7. NO SUBSTITUTIONS OR EXCEPTIONS ALLOWED WHERE SPECIAL FRAMING IS REQUIRED FOR 3" STUDS SPANNING FLOOR TO DECK, REFERENCE LEGEND FOR REQUIREMENTS AND LOCATION
8. PROVIDE R25 BATT INSULATION IN EXTERIOR WALLS PER COMCHECK REPORT.

ARCHITECT OF RECORD

**brr**

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CONSULTANT

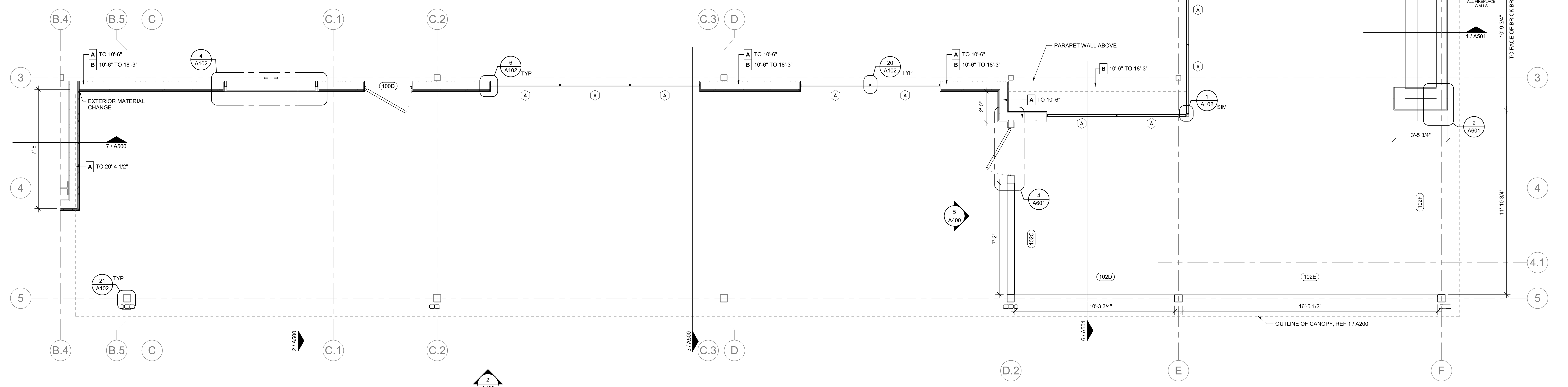
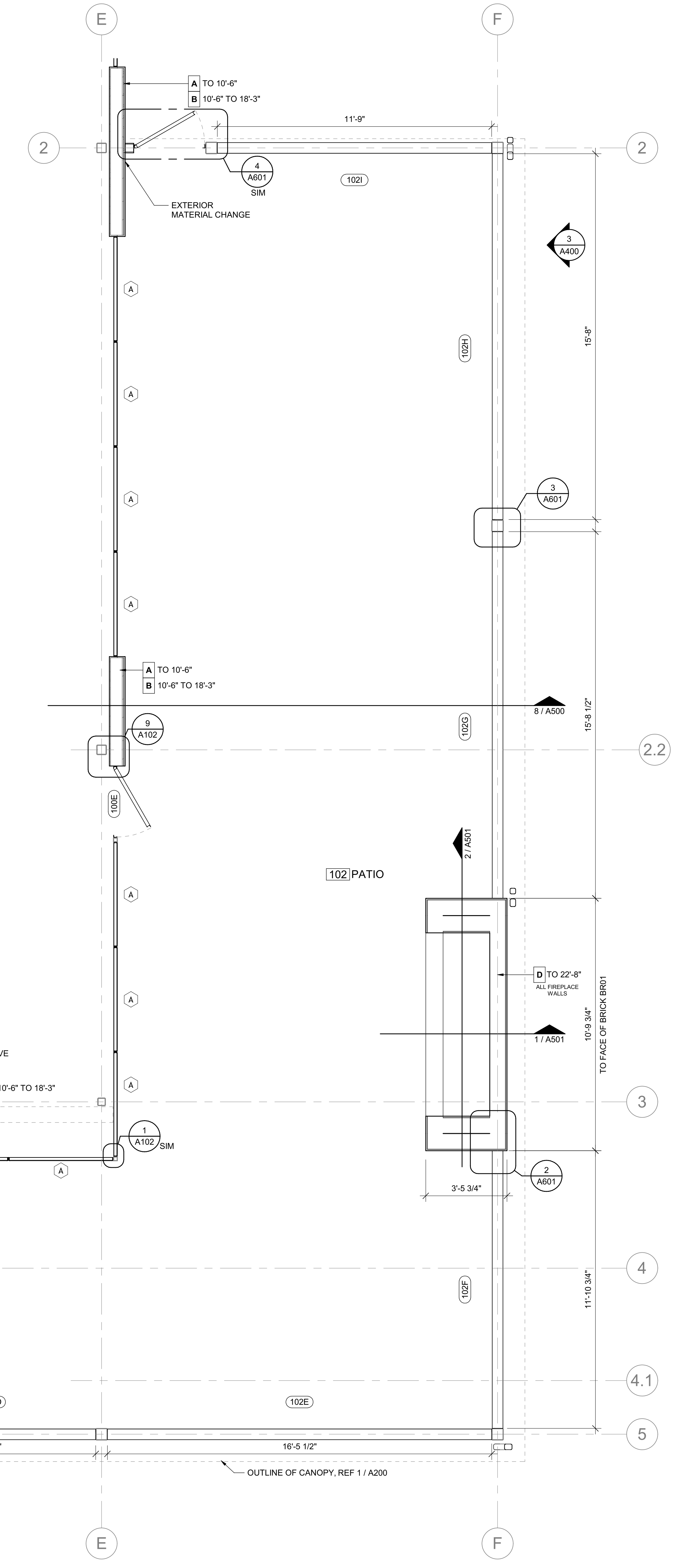
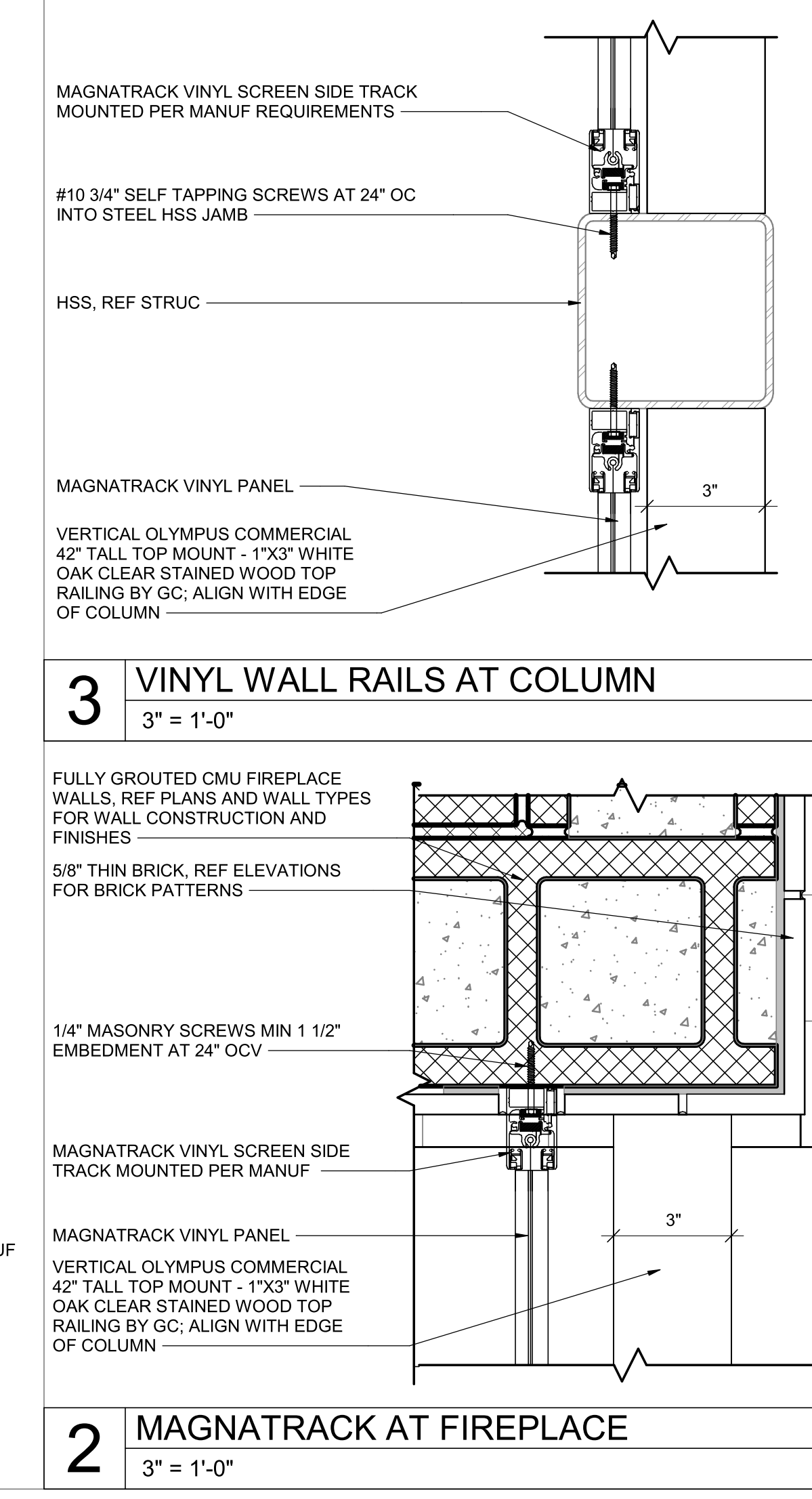
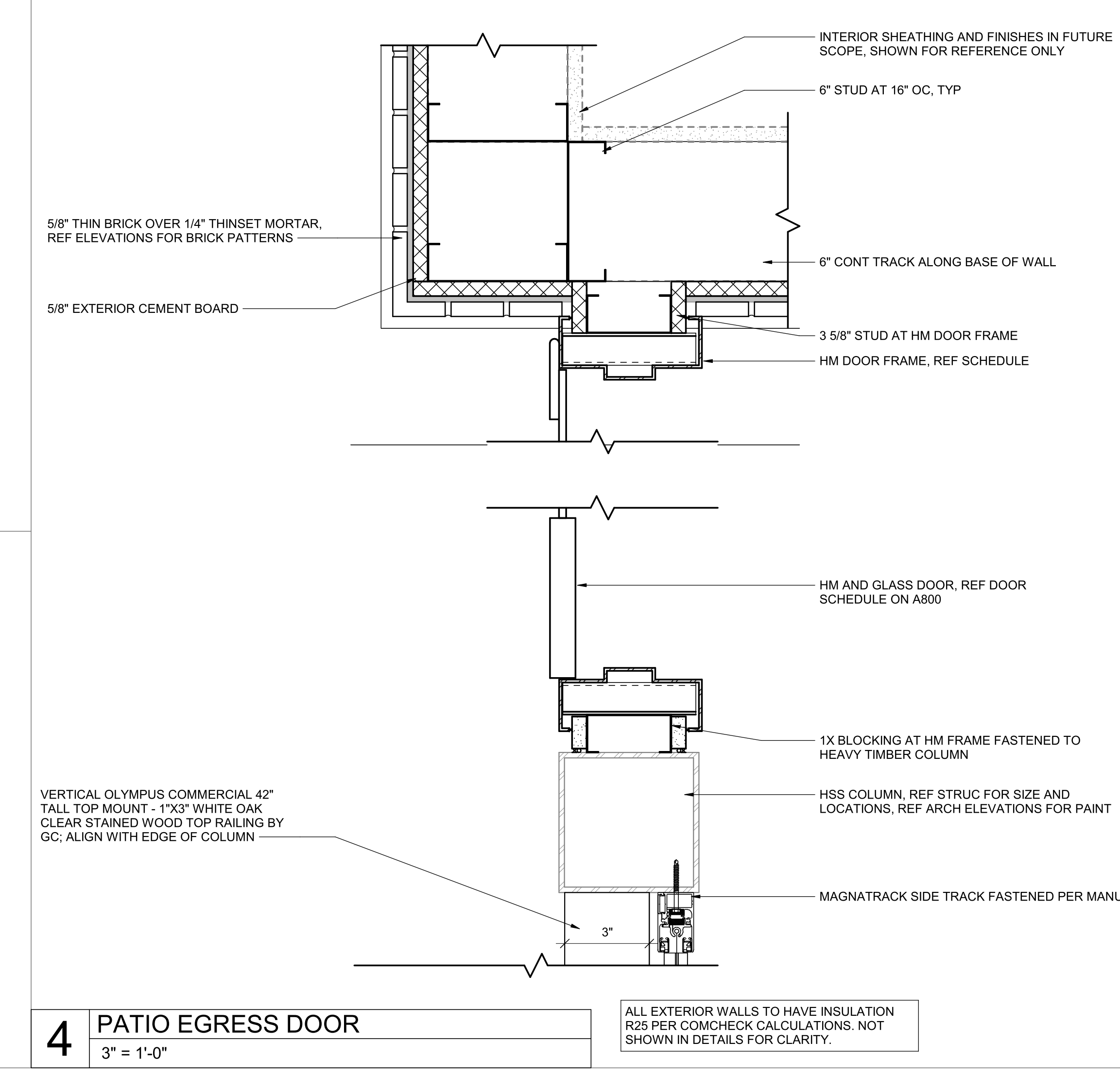
CLIENT

PROJECT TITLE

**Q39 (SHELL)**

**LEE'S SUMMIT, MO**

OLDHAM VILLAGE



ALL EXTERIOR WALLS TO HAVE INSULATION R25 PER COMCHECK CALCULATIONS. NOT SHOWN IN DETAILS FOR CLARITY.

5/12/2025 3:54:35 PM

**1 ENLARGED PATIO PLAN**

3/8" = 1'-0"

PROJECT NUMBER: 62500002

PROJECT MANAGER: TM

DRAWN BY: ND

CHECKED BY: [Signature]

PROFESSIONAL SEAL:



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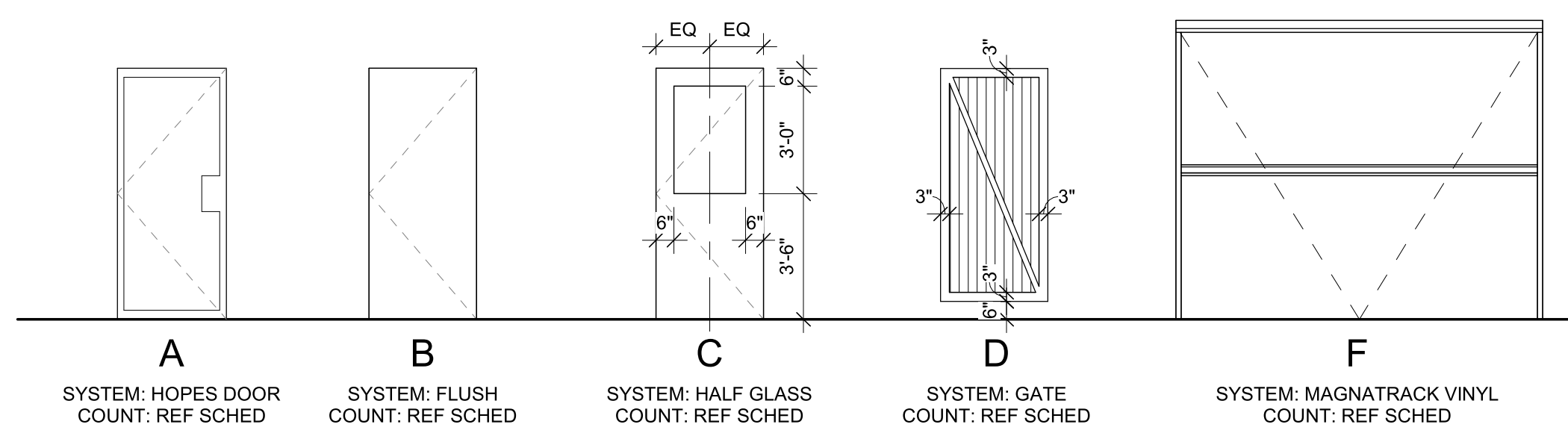
SHEET NAME

**ENLARGED PATIO PLAN AND DETAILS**

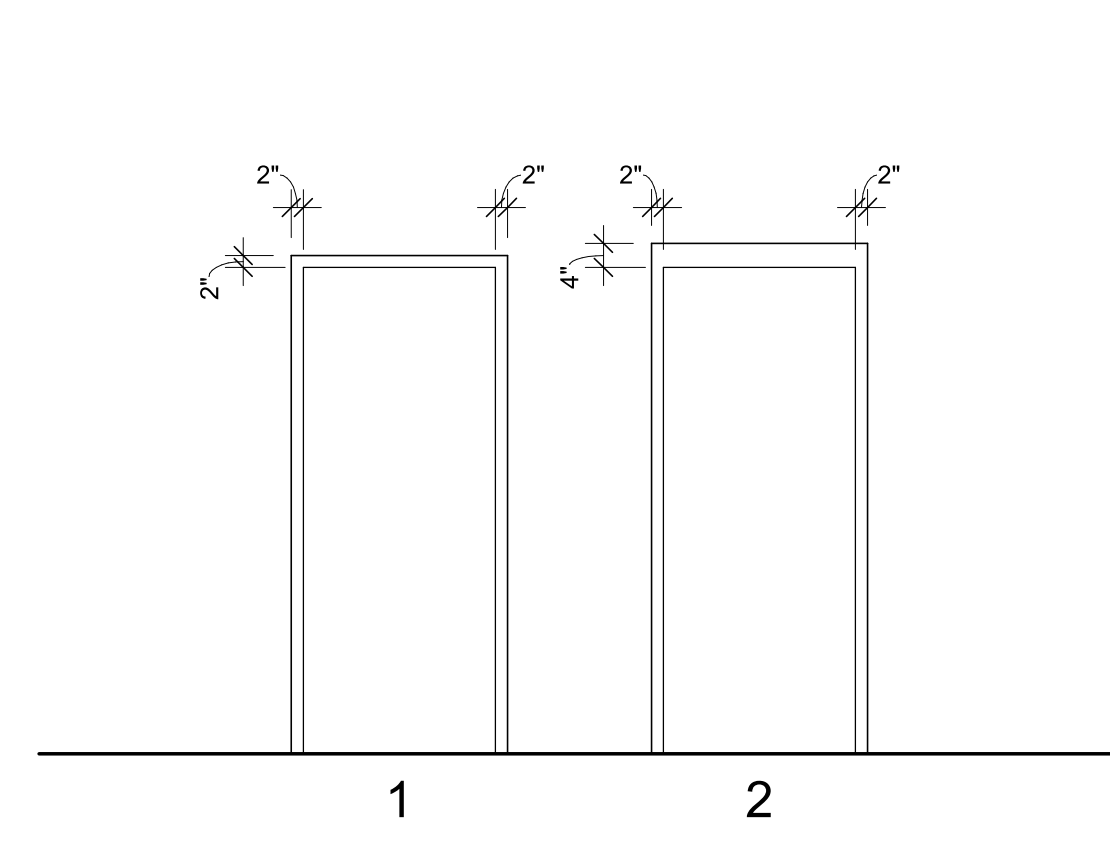
SHEET NUMBER

**A601**

DOOR TYPES



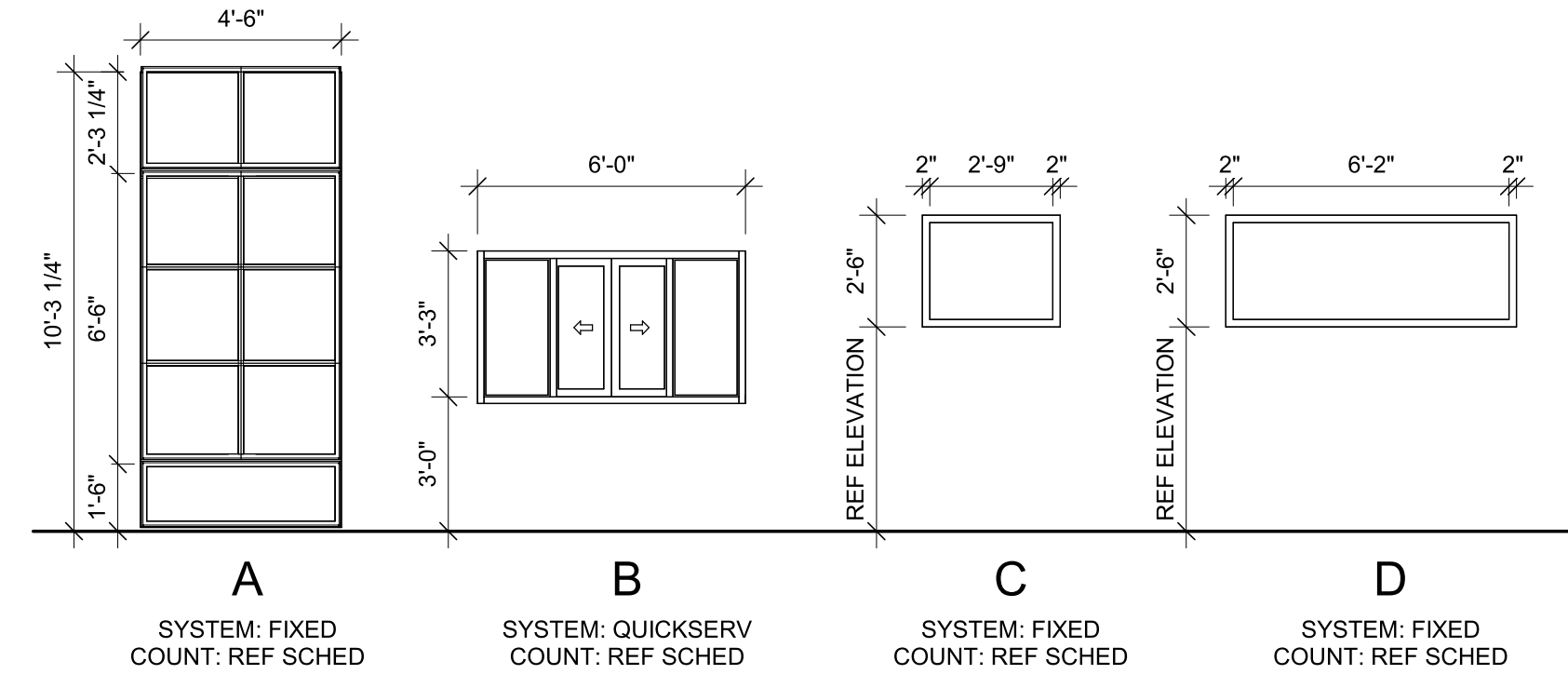
FRAME TYPES



HARDWARE SCHEDULE

QTY	ITEM	MANUFACTURER	MODEL
<b>SET 1.0</b>			
2	CONTINUOUS HINGES	PEMKO	CFMCKXHD1
1	SURFACE VERT. ROD EXIT, NIGHTLATCH	ASSA ABLOY	7170LBR AU827F 630
1	SURFACE VERT. ROD EXIT, EXIT ONLY	ASSA ABLOY	7170LBR EO 630
1	RIM CYLINDER	SARGENT	34XLA KEYWAY US32D
2	SURF OVERHEAD STOP W/ HOLD OPEN	NORTON RIXSON	9X26 689
2	PARALLEL HEAVY DUTY OFFSET ARM SURFACE CLOSER	ASSA ABLOY	PRO4490 689
2	ARMOR PLATE	ROCKWOOD	K1009 34X1\"/>

WINDOW TYPES



DOOR SCHEDULE

MARK	ROOM	TYPE	QUANTITY	DOOR DIMENSIONS			MATERIAL	FRAME			HARDWARE	NOTE	DETAIL
				OVERALL WIDTH	LEAF WIDTH	HEIGHT		TYPE	MATERIAL				
100A	RESTAURANT INTERIOR	CC	PR	6'-0"	3'-0"	7'-0"	HOLLOW METAL	1	HOLLOW METAL	1	1	1A/800	
100B	RESTAURANT INTERIOR	A	1	3'-1"	3'-0"	8'-0"	STEEL GLASS	1	STEEL	6	3	A102	
100C	RESTAURANT INTERIOR	AA	PR	6'-2"	3'-0"	8'-0"	STEEL GLASS	1	STEEL	5	1, 3	A102	
100D	RESTAURANT INTERIOR	A	1	3'-1"	3'-0"	8'-0"	STEEL GLASS	1	STEEL	6	3	A102	
100E	RESTAURANT INTERIOR	A	1	3'-1"	3'-0"	8'-0"	STEEL GLASS	1	STEEL	6	3	A102	
100F	RESTAURANT INTERIOR	A	1	3'-1"	3'-0"	8'-0"	STEEL GLASS	1	STEEL	6	3	A102	
102A	PATIO	A	1	3'-1"	3'-0"	8'-0"	STEEL GLASS	1	STEEL	7	4	4A/601	
102B	PATIO	A	1	3'-1"	3'-0"	8'-0"	STEEL GLASS	1	STEEL	7	4	4A/601	
114A	BBQ SMOKER COURT	C	1	3'-0"	3'-0"	7'-0"	HOLLOW METAL	1	HOLLOW METAL	2	1	1A/800	
114B	BBQ SMOKER COURT	DD	PR	6'-0"	3'-0"	10'-0"	HOLLOW METAL	-	-	9	1, 5	6A/600	
114C	BBQ SMOKER COURT	D	1	4'-0"	4'-0"	10'-0"	HOLLOW METAL	-	-	8	5	6A/600	
125A	PLUMBING	B	1	3'-0"	3'-0"	7'-0"	HOLLOW METAL	1	HOLLOW METAL	3	1	1A/800	
125A	ELECTRICAL	B	1	3'-0"	3'-0"	7'-0"	HOLLOW METAL	1	HOLLOW METAL	4	1	1A/800	

MAGNATRACK SCHEDULE\*

MARK	ROOM	TYPE	QUANTITY	DOOR DIMENSIONS			MATERIAL	FRAME			HARDWARE	NOTE
				LEAF WIDTH	HEIGHT	TYPE		MATERIAL				
102C	PATIO	F	1	7'-0"	10'-0"	VINYL	-	-	-	-	2	
102D	PATIO	F	1	10'-1"	9'-7"	VINYL	-	-	-	-	2	
102E	PATIO	F	1	15'-10"	9'-7"	VINYL	-	-	-	-	2	
102F	PATIO	F	1	11'-6"	10'-0"	VINYL	-	-	-	-	2	
102G	PATIO	F	1	15'-3"	9'-7"	VINYL	-	-	-	-	2	
102H	PATIO	F	1	19'-0"	9'-7"	VINYL	-	-	-	-	2	
102I	PATIO	F	1	11'-0"	10'-0"	VINYL	-	-	-	-	2	

\*QC TO FIELD VERIFY DIMENSIONS BEFORE ORDERING MAGNATRACK

WINDOW SCHEDULE

TYPE	MANUFACTURER	MODEL	QTY	WIDTH	HEIGHT	NOTES
A	HOPE'S WINDOWS	CUSTOM	25	4'-6"	10'-6"	LANDMARK 175
B	QUICKSERV CORP.	IF-BPSC-T241	1	6'-0 1/2"	3'-5 1/2"	DARK BRONZE ANODIZED
C	HOPE'S WINDOWS	CUSTOM	6	3'-1"	2'-6"	TRANSOM PANEL, LANDMARK 175
D	HOPE'S WINDOWS	CUSTOM	1	6'-1"	2'-6"	TRANSOM PANEL, LANDMARK 175

SCHEDULE NOTES

- QC TO ADJUST HARDWARE SET QUANTITY FOR LOCATIONS WHERE OPENING CALLS FOR A PAIR OF DOORS
- COMMERCIAL ROLL DOWN VINYL DOOR BY MAGNATRACK, REF MANUFACTURER FOR MORE INFORMATION
- THERMALLY BROKEN FRAME, FULL GASKETED, LOCKABLE DOOR WITH PANIC HARDWARE, REF HARDWARE SCHEDULE
- LOCKABLE WITH A KEY ONLY, NO THUMB TURN
- DOOR TYPE D IS A CUSTOM MADE STEEL GATES TO MATCH TRASH ENCLOSURE DOORS

DOOR NOTES

- FINAL KEYING BY CLIENT, COORDINATE WITH CM
- SCHEDULED WIDTH AND HEIGHT INDICATE DOOR SIZE
- PROVIDE COMMERCIAL GRADE XCLUDER DOOR SWEEP (HEIGHT MAY VARY) AT BOTTOM OF ALL EXISTING EXTERIOR DOORS, CONFIRM ALL DOOR LOCATIONS WITH CLIENT
- PROVIDE FULLY THROATED DOOR FRAMES ALL LOCATIONS, UNO
- PROVIDE 1 3/4" DOOR THICKNESS, UNO
- QC TO PROVIDE CLOSER LATCH AND WHEELS FOR CHAINLINK SWING GATES THAT ARE WIDER THAN 4'-0"

GLAZING NOTES

- PROVIDE TEMPERED GLAZING ALL LOCATIONS, UNO
- CENTER GLAZING SYSTEMS ON WALL DEPTH, UNO
- 1/4" GLASS THICKNESS, UNO

HARDWARE NOTES

- INSTALL HARDWARE IN COMPLIANCE WITH ADA REGULATIONS

ARCHITECT OF RECORD

**brr**

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CONSULTANT

CLIENT

PROJECT TITLE

Q39 (SHELL)  
LEE'S SUMMIT, MO  
OLDHAM VILLAGE

PROJECT NUMBER	62500002
PROJECT MANAGER	TM
DRAWN BY	ND
CHECKED BY	CT
PROFESSIONAL SEAL	



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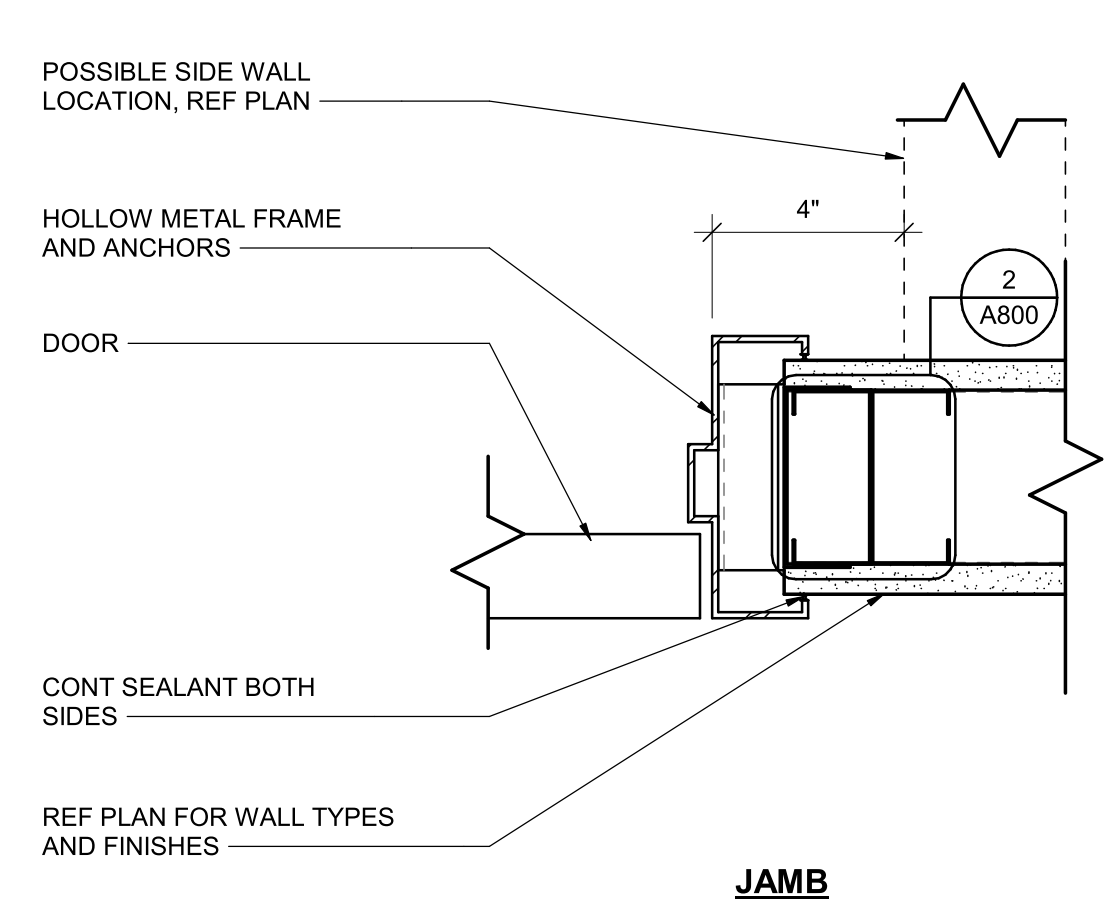
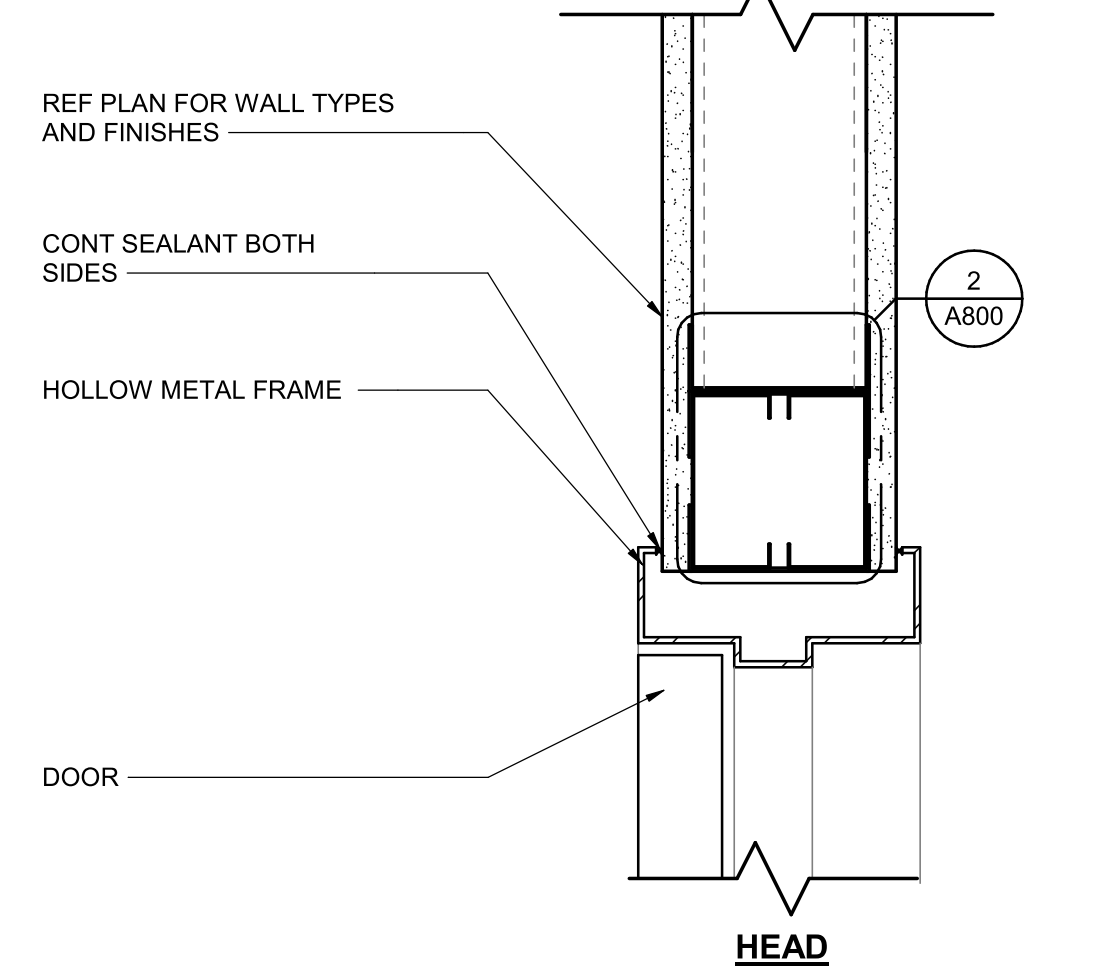
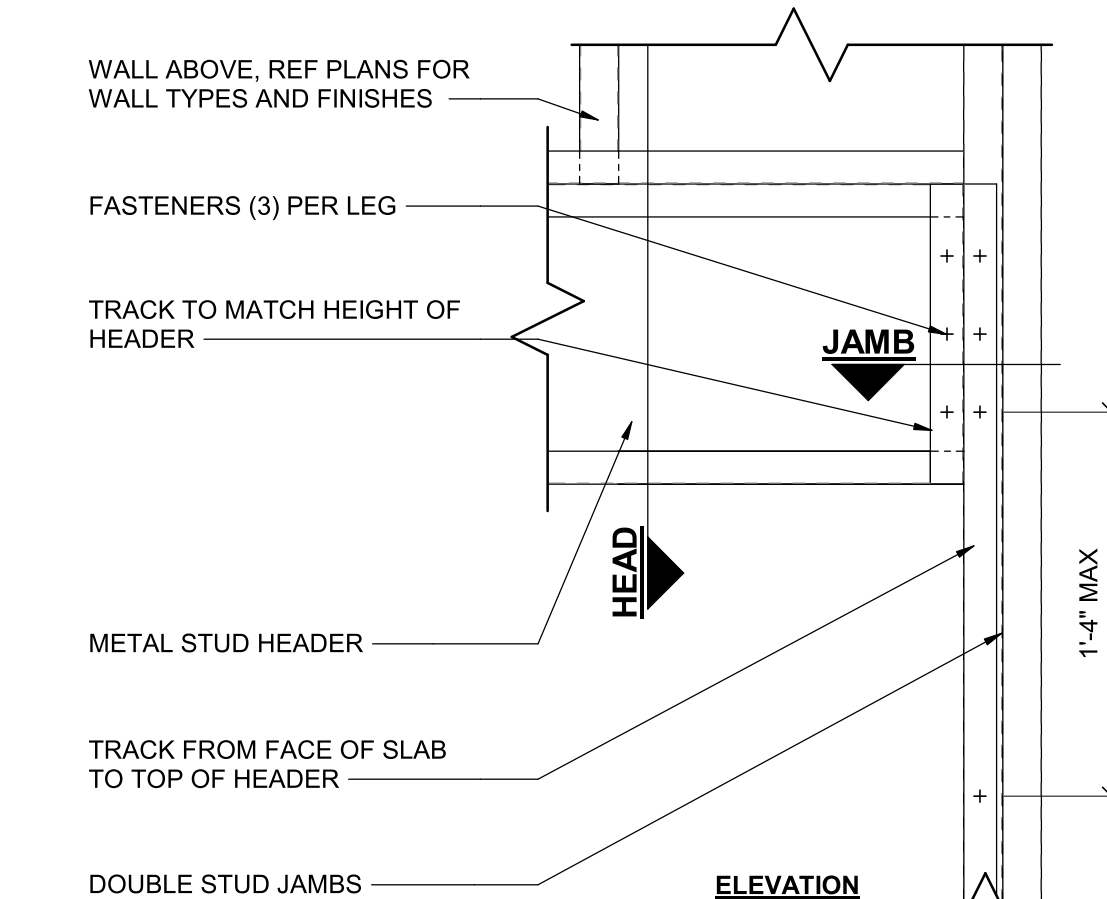
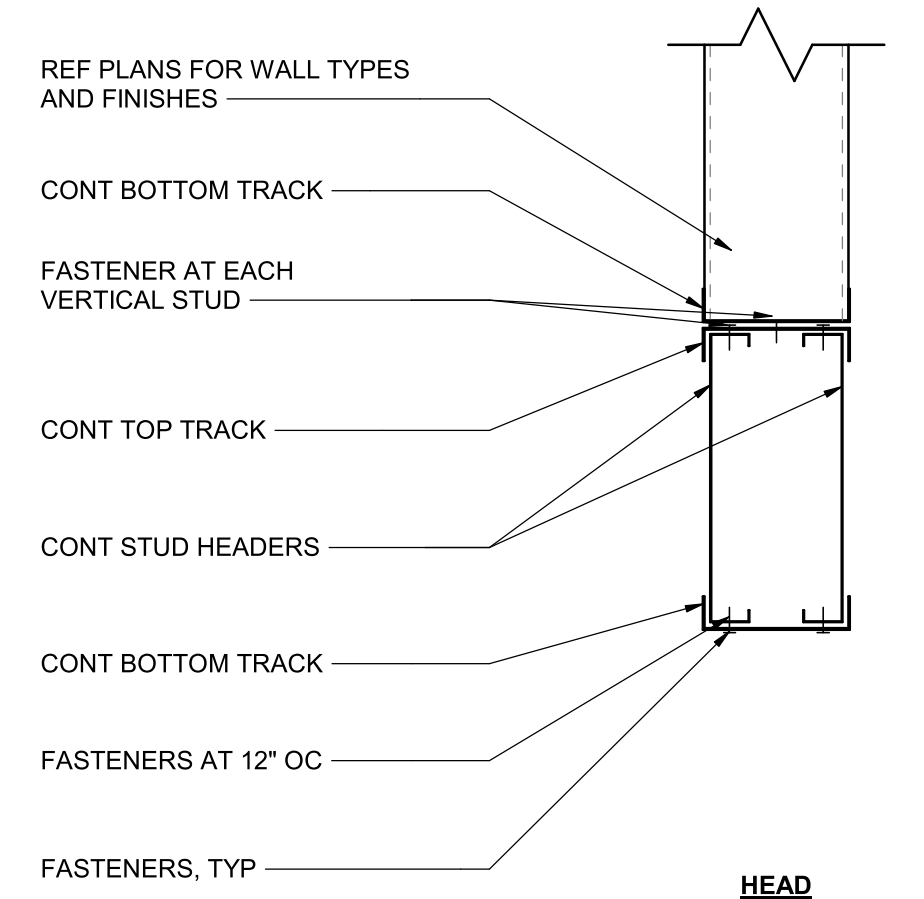
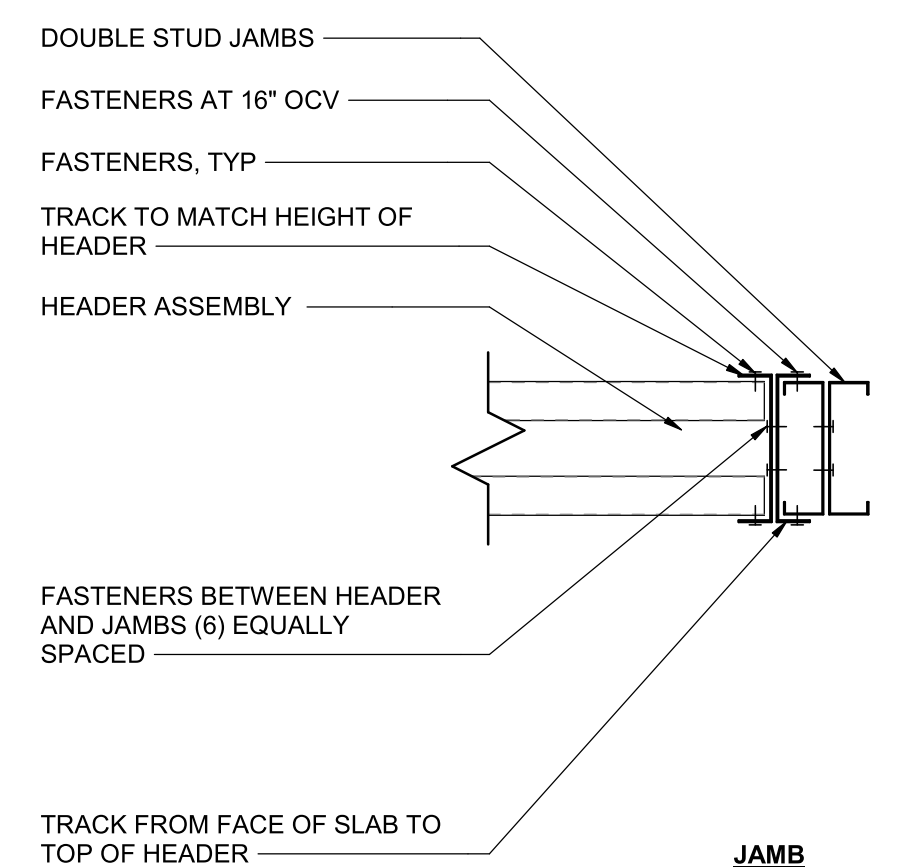
**DOOR AND WINDOW INFORMATION**

SHEET NUMBER

A800

FRAMING NOTES

- CFS HEADERS TO BE ENGINEERED, COORDINATED, AND SUPPLIED BY OTHERS, TYP



2 STUD HEADER  
1 1/2" = 1'-0"

1 FRAME AT HM  
3" = 1'-0"





CONCRETE MIXTURE REQUIREMENTS									
CONCRETE CLASS	DESCRIPTION	EXPOSURE CLASS			MINIMUM Fc AT 28 DAYS (PSI)	MAXIMUM W/C RATIO	AIR CONTENT	MINIMUM CEMENTITIOUS MATERIAL (LB/CY)	REMARKS
		F	S	W					
A	FOOTINGS	F0	S0	W0	C0	3000	--	--	
B	FOUNDATION WALLS	F2	S0	W0	C1	4500	0.45	6% ± 1.5%	
C1	INTERIOR SLABS-ON-GROUND	F0	S0	W0	C0	4000	--	3% MAX	540

CONCRETE MIXTURE NOTES:  
A. PROVIDE MIX DESIGNS IN ACCORDANCE WITH ACI 301-16 FOR SPECIFIED EXPOSURE CLASS AND AGGREGATE.  
B. NOMINAL MAX AGGREGATE SIZE = 3/4" UNLESS OTHERWISE NOTED  
C. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED

SCHEDULE OF TENSION DEVELOPMENT AND LAP SPICE LENGTHS																	
FOOTINGS (fc = 3000PSI)						FOUNDATION WALLS (fc = 4500PSI)						INTERIOR SLABS-ON-GROUND (fc = 4000PSI)					
BAR SIZE	Ld		Ls		Ldh	BAR SIZE	Ld		Ls		Ldh	BAR SIZE	Ld		Ls		Ldh
	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS			OTHER BARS	TOP BARS	OTHER BARS	TOP BARS			OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	
(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)
#3	17	22	22	28	9	#3	12	12	16	16	7	#3	12	12	16	16	8
#4	22	29	29	38	11	#4	12	14	16	19	9	#4	12	15	16	20	10
#5	28	36	36	47	14	#5	14	18	18	23	12	#5	15	19	19	25	12
#6	33	43	43	56	17	#6	17	21	21	28	14	#6	18	23	23	29	15
#7	48	63	63	81	20	#7	24	31	31	40	16	#7	25	33	33	43	17
#8	55	72	72	93	25	#8	27	35	35	46	18	#8	29	37	37	49	19
#9	62	81	81	105	25	#9	34	44	44	57	21	#9	36	46	46	60	22
#10	70	91	91	118	28	#10	42	54	54	70	23	#10	44	57	57	74	25
#11	78	101	101	131	31	#11	50	65	65	84	26	#11	53	68	68	89	27
#14	93	121	121	157	38	#14	68	88	88	115	31	#14	72	94	94	122	33

LAP AND DEVELOPMENT TABLE CRITERIA:	LAP AND DEVELOPMENT TABLE CRITERIA:	LAP AND DEVELOPMENT TABLE CRITERIA:
A. GRADE 60 UNCOATED REINFORCING STEEL i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2	A. GRADE 60 UNCOATED REINFORCING STEEL i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2	A. GRADE 60 UNCOATED REINFORCING STEEL i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2
B. NORMAL WEIGHT CONCRETE i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33	B. NORMAL WEIGHT CONCRETE i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33	B. NORMAL WEIGHT CONCRETE i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33
C. CLEAR COVER GREATER THAN db	C. 2" MIN CLEAR COVER	C. 2" MIN CLEAR COVER
D. MIN 2*db CLEAR SPACING BETWEEN BARS	D. 4" MIN CLEAR SPACING BETWEEN BARS	D. 4" MIN CLEAR SPACING BETWEEN BARS
FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED: #6 AND SMALLER: Ld = 66 BAR DIAMETERS; Ls = 86 BAR DIAMETERS #7 AND LARGER: Ld = 83 BAR DIAMETERS; Ls = 107 BAR DIAMETERS FOR TOP BARS MULTIPLY BY 1.3 MINIMUM Ld AND Ls = 12"	FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED: #6 AND SMALLER: Ld = 54 BAR DIAMETERS; Ls = 70 BAR DIAMETERS #7 AND LARGER: Ld = 68 BAR DIAMETERS; Ls = 88 BAR DIAMETERS FOR TOP BARS MULTIPLY BY 1.3 MINIMUM Ld AND Ls = 12"	FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED: #6 AND SMALLER: Ld = 57 BAR DIAMETERS; Ls = 74 BAR DIAMETERS #7 AND LARGER: Ld = 72 BAR DIAMETERS; Ls = 93 BAR DIAMETERS FOR TOP BARS MULTIPLY BY 1.3 MINIMUM Ld AND Ls = 12"

LAP AND DEVELOPMENT TABLE NOTES & DEFINITIONS:  
A. TOP BARS = HORIZ BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS  
B. db = BAR DIAMETER  
C. s = CENTER-TO-CENTER BAR SPACING  
D. Ath = TOTAL AREA OF TIES OR STIRRUPS CONFINING HOOKED BARS  
E. Aths = TOTAL AREA OF HOOKED BARS BEING DEVELOPED  
F. WHERE BARS OF DIFFERENT SIZES ARE SPICED, Ls FOR THE LARGER BAR SHALL BE USED  
G. ALL TENSION SPICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE  
H. Ldh VALUES FOR #11 BARS AND SMALLER MAY BE REDUCED AS FOLLOWS (PER ACI 318-14)  
i. MULTIPLY BY 0.70 FOR (1) OR (2)  
(1) SIDE COVER ≥ 2 1/2"  
(2) 90° HOOKS WITH COVER ON BAR EXTENSION BEYOND HOOK ≥ 2"  
ii. MULTIPLY BY 0.80 FOR (3), (4), or (5)  
(3) 90° HOOKS ENCLOSED ALONG Ldh WITHIN TIES OR STIRRUPS AT s ≤ 3db  
(4) 90° HOOKS ENCLOSED ALONG THE BAR EXTENSION WITHIN TIES OR STIRRUPS AT s ≤ 3db  
(5) 180° HOOKS ENCLOSED ALONG Ldh WITHIN TIES OR STIRRUPS AT s ≤ 3db  
iii. Ldh SHALL NOT BE LESS THAN THE LARGER OF 8db OR 6" WITH REDUCTIONS APPLIED



CONSULTANT

CLIENT

PROJECT TITLE

Q39 (SHELL)  
LEE'S SUMMIT, MO  
OLDHAM VILLAGE

PROJECT NUMBER	62910099
PROJECT MANAGER	Author
APPROVER	Author



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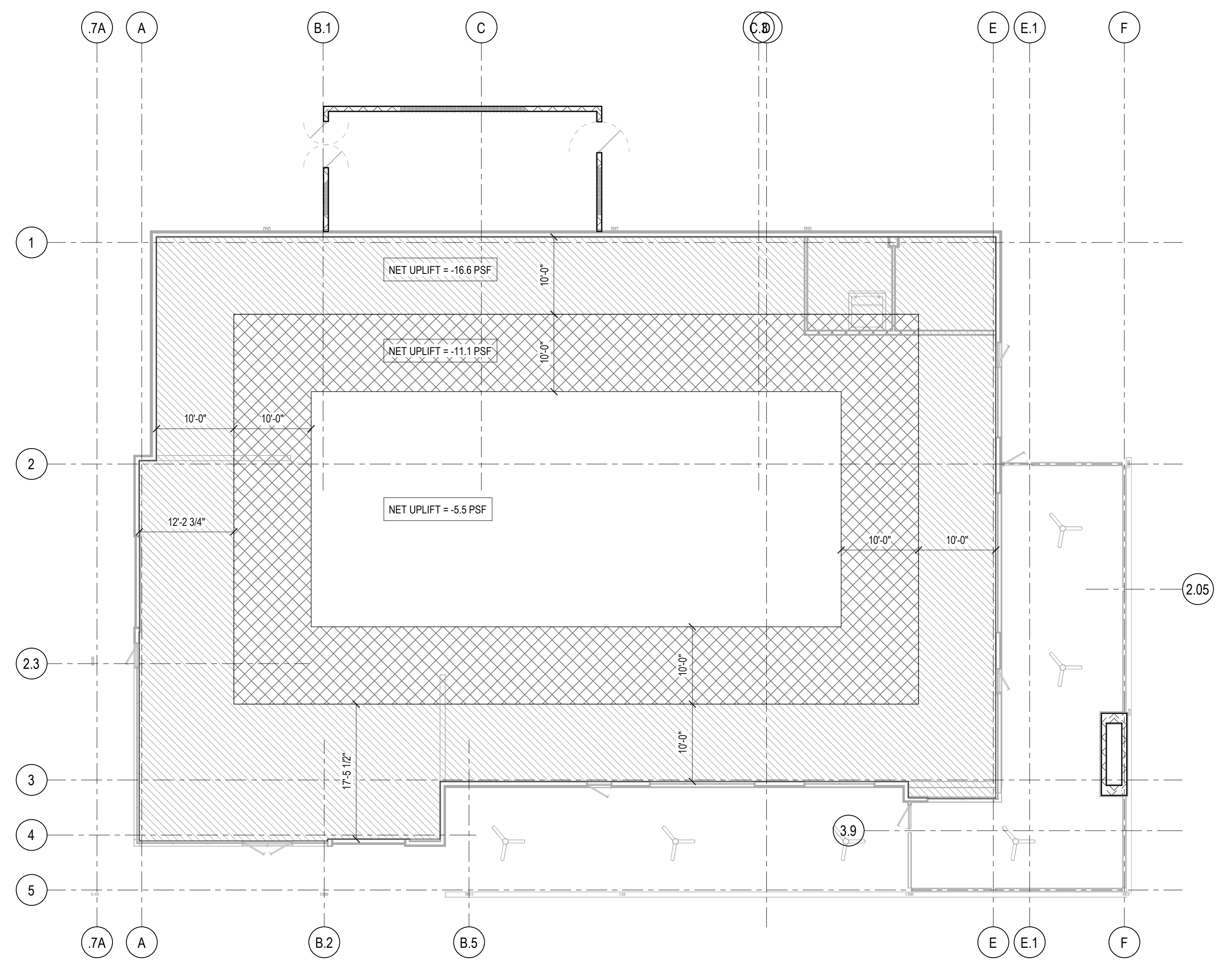


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CONCRETE TABLES

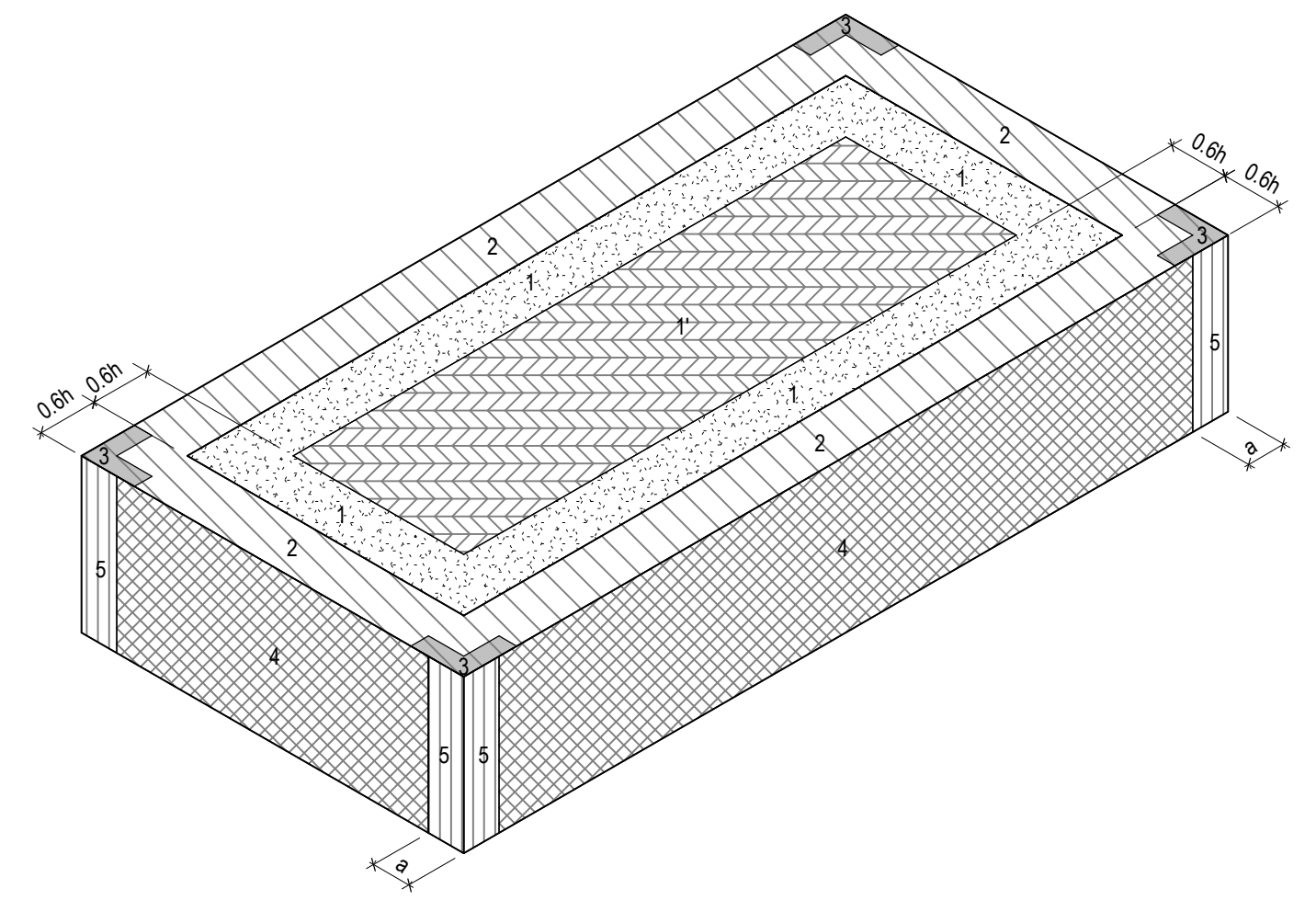
S003





**JOIST UPLIFT PLAN**  
 3/32" = 1'-0"  
 NORTH

NOTE:  
 NET UPLIFT IS BASED ON ASD LOAD COMBINATION: 0.6D+0.6W



**ASCE7-16 WIND ZONE ISOMETRIC**  
 NTS  
 h = 10'-0"  
 a = 4'-0"

- NOTE:  
 1. APPLY HIGH ROOF LOADS TO THE SHADED PORTION OF THE LOWER ROOF.  
 2. APPLY POSITIVE WALL PRESSURES TO THE SHADED PORTION OF THE LOWER ROOF.  
 3. ISOMETRIC VIEW SHOWS GENERAL SIZE AND LOCATION OF WALL ZONES ONLY. SEE PLAN FOR SPECIFIC ROOF PRESSURE ZONES. TYPE 5 WALL ZONES OCCUR AT BUILDING CORNERS WITH A TYPE 3 ROOF ZONE AS SHOWN ON THE ROOF PLAN VIEW.  
 4. WIND LOADS SHOWN ARE ULTIMATE (1.0WL).

**ROOF SURFACE PRESSURE (psf)**

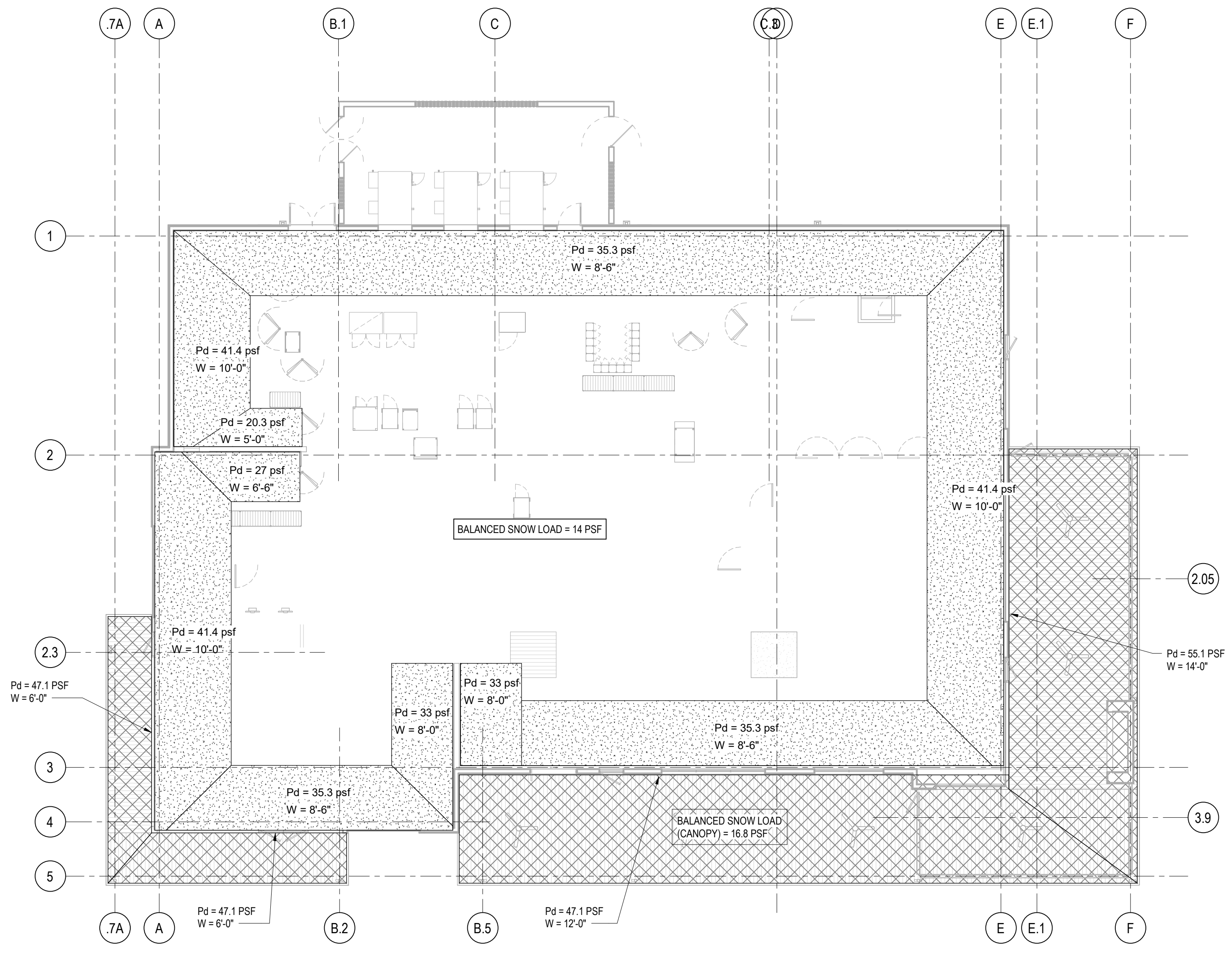
AREA	10 sf	20 sf	50 sf	100 sf	200 sf	350 sf	500 sf	1000 sf
NEGATIVE ZONE 1	-40.5	-37.8	-34.3	-31.6	-28.9	-26.5	-25.4	-25.4
NEGATIVE ZONE 2	-23.3	-23.3	-23.3	-23.3	-20.0	-17.4	-16.0	-16.0
NEGATIVE ZONE 3	-53.4	-50.0	-45.4	-42.0	-38.6	-35.8	-34.0	-34.0
POSITIVE ZONE 1 & 1'	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
POSITIVE ZONES 2 & 3	23.3	22.2	20.9	19.8	18.8	18.0	17.4	17.4
OVERHANG ZONE 1 & 1'	-36.6	-36.0	-35.1	-34.5	-28.9	-24.4	-21.5	-21.5
OVERHANG ZONE 2	-49.5	-44.9	-38.9	-34.3	-29.7	-26.0	-23.7	-23.7
OVERHANG ZONE 3	-49.5	-44.9	-38.9	-34.3	-29.7	-26.0	-23.7	-23.7

**PARAPET SURFACE PRESSURE (psf)**

AREA	10 sf	20 sf	50 sf	100 sf	200 sf	500 sf
CASE A: ZONE 2	72.2	67.5	61.4	56.7	52.0	45.8
ZONE 3	72.2	67.5	61.4	56.7	52.0	45.8
CASE B: INTERIOR ZONE:	-42.7	-40.5	-37.6	-35.5	-33.3	-30.5
CORNER ZONE:	-48.7	-45.5	-41.2	-38.0	-34.7	-30.5

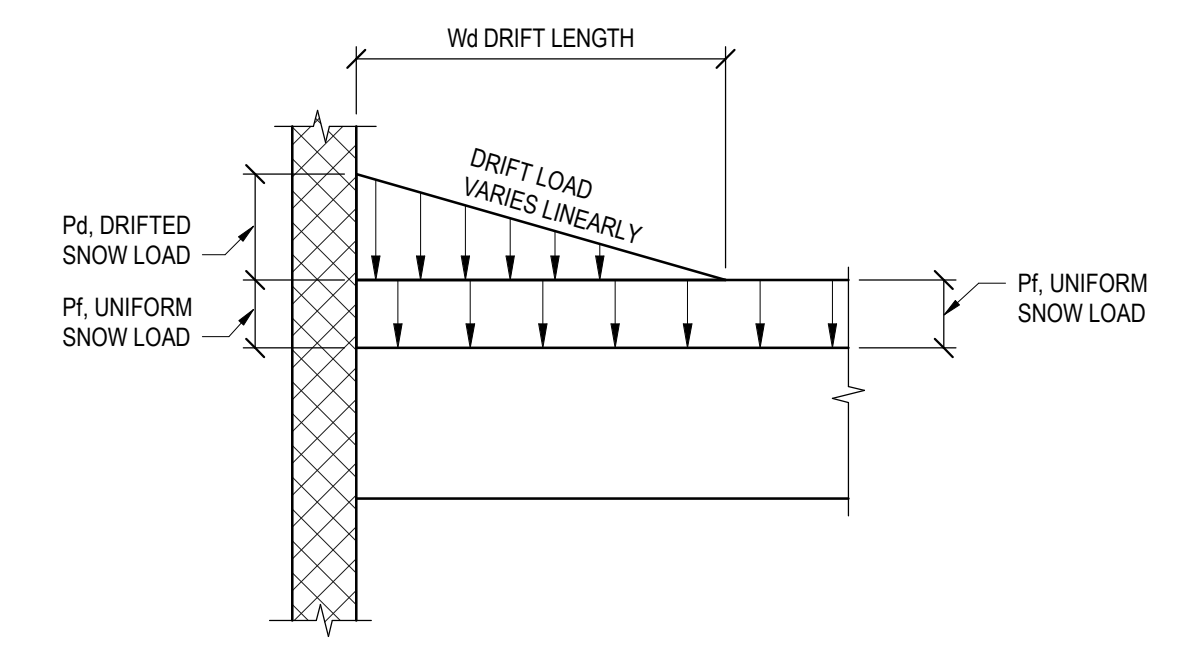
**WALL SURFACE PRESSURE (psf)**

AREA	10 sf	100 sf	200 sf	500 sf
NEGATIVE ZONE 4	-25.2	-21.8	-20.7	-19.4
NEGATIVE ZONE 5	-31.0	-24.2	-22.1	-19.4
POSITIVE ZONE 4 & 5	23.3	19.8	18.8	17.4

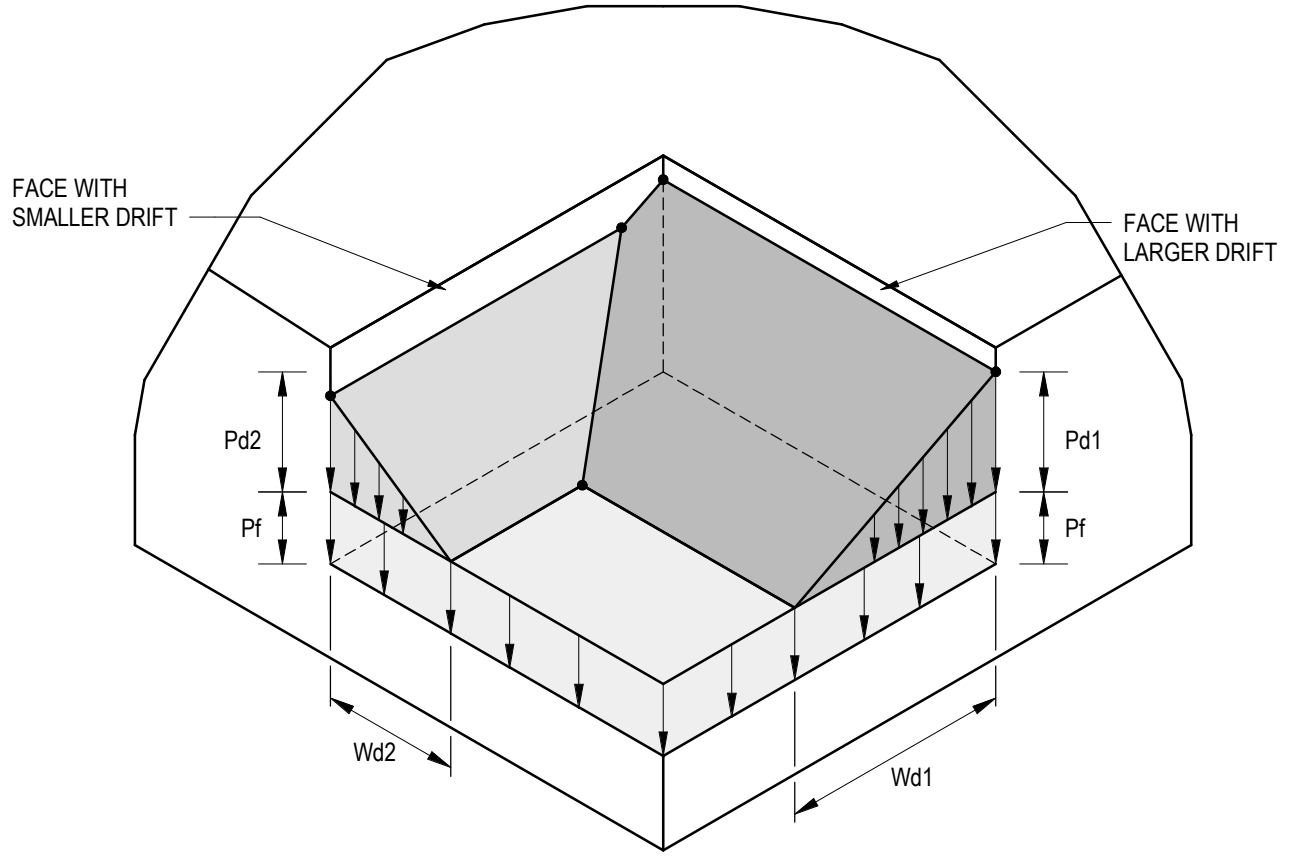


**SNOW DRIFT PLAN**  
 3/32" = 1'-0"  
 NORTH

- NOTES:  
 1. HATCHED PATTERNS INDICATE DRIFTED SNOW PRESSURES OCCURRING IN A TRIANGULAR SHAPE BEGINNING @ FACE OF WALL @ MAX PRESSURE & EXTENDING INWARD TOWARD BLDG CENTER @ BALANCED SNOW PRESSURE.  
 2. HATCHED DRIFTED SNOW PRESSURES ARE ON TOP OF & ADDITIVE TO BALANCED SNOW PRESSURES.



**DRIFTED SNOW LOAD LEGEND**  
 NTS



**TYPICAL ADJACENT DRIFTS AT CORNER DETAIL**  
 NTS

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER	62910099		
PROJECT MANAGER	DMA	DRAWN BY	GJB
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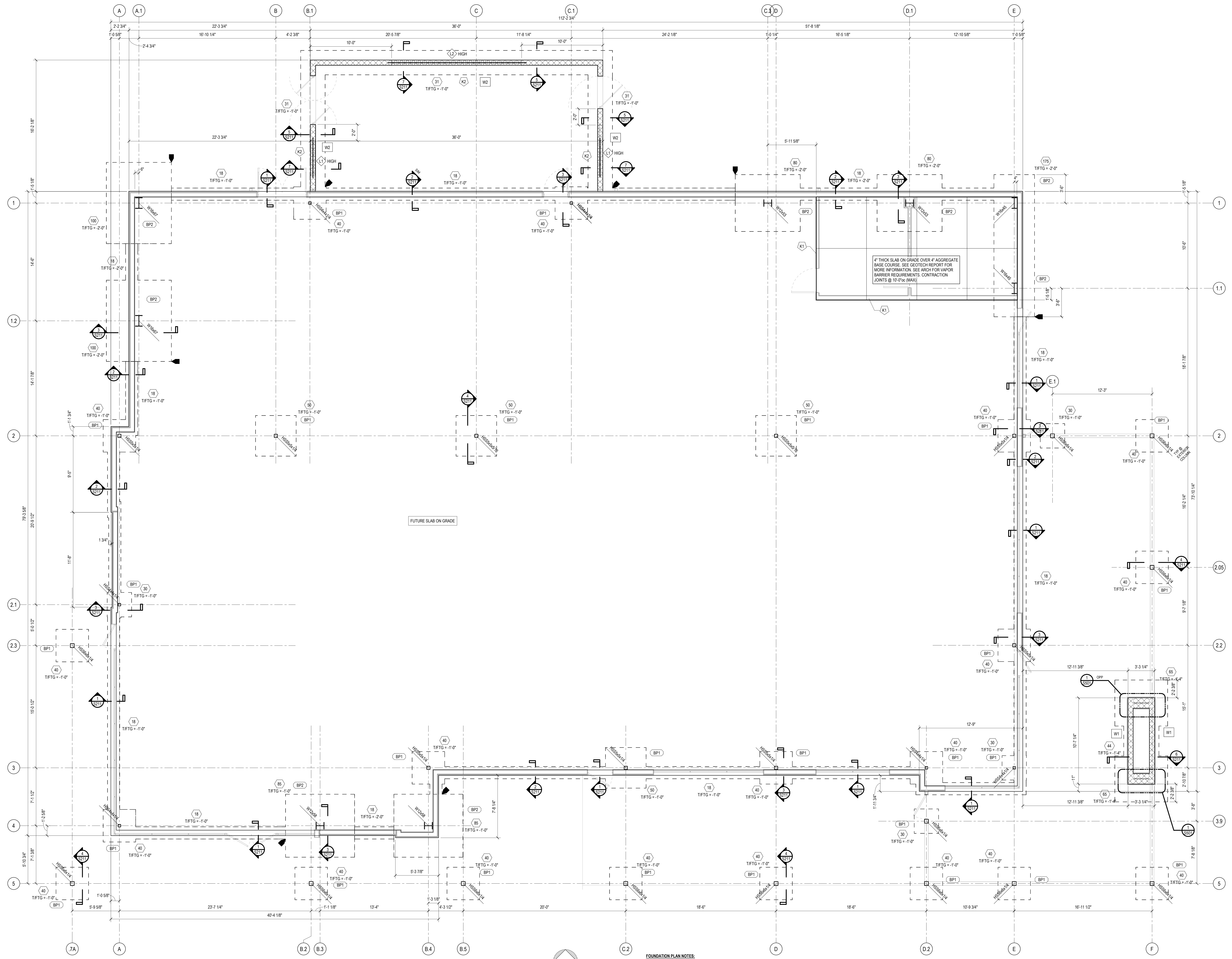
**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1	ISSUED	ORIGINAL ISSUE

SHEET NAME

**FOUNDATION PLAN**  
 SHEET NUMBER

**S101**



**CONTINUOUS FOOTING SCHEDULE**

MAIN	WIDTH (B)	THICKNESS (H)	REINFORCING	REMARKS
30	3'-0"	2'-0"	(4) #5 EA WAY TOP & BOT	
40	4'-0"	2'-0"	(6) #5 EA WAY TOP & BOT	
50	5'-0"	2'-0"	(4) #5 EA WAY TOP & BOT	
60	6'-0"	2'-0"	(10) #5 EA WAY TOP & BOT	
80	8'-0"	2'-0"	#5 @ 10" EA WAY BOT & #5 @ 12" EA WAY TOP	
85	8'-6"	2'-0"	#5 @ 10" EA WAY BOT & #5 @ 12" EA WAY TOP	
100	10'-0"	2'-0"	#5 @ 10" EA WAY BOT & #5 @ 12" EA WAY TOP	
175	17'-0"	2'-0"	(8) #5 LONGITUDINAL BARS TOP & BOTTOM w/ #5 TRANS BARS @ 10" TOP & BOT	

**ISOLATED FOOTING SCHEDULE**

MAIN	LENGTH (L)	WIDTH (B)	THICKNESS (H)	REINFORCING	REMARKS
30	3'-0"	2'-0"	2'-0"	(4) #5 EA WAY TOP & BOT	
40	4'-0"	2'-0"	2'-0"	(6) #5 EA WAY TOP & BOT	
50	5'-0"	2'-0"	2'-0"	(4) #5 EA WAY TOP & BOT	
60	6'-0"	2'-0"	2'-0"	(10) #5 EA WAY TOP & BOT	
80	8'-0"	2'-0"	2'-0"	#5 @ 10" EA WAY BOT & #5 @ 12" EA WAY TOP	
85	8'-6"	2'-0"	2'-0"	#5 @ 10" EA WAY BOT & #5 @ 12" EA WAY TOP	
100	10'-0"	2'-0"	2'-0"	#5 @ 10" EA WAY BOT & #5 @ 12" EA WAY TOP	
175	17'-0"	2'-0"	2'-0"	(8) #5 LONGITUDINAL BARS TOP & BOTTOM w/ #5 TRANS BARS @ 10" TOP & BOT	

**FOUNDATION PLAN**  
 1/4" = 1'-0"

- FOUNDATION PLAN NOTES:**
- REFERENCE PLAN ELEVATION 0'-0" = 1040.00' ± (FINISH FLOOR ELEVATION AT MEAN SEA LEVEL). CONFIRM WITH CIVIL ENGINEER PRIOR TO CONSTRUCTION.
  - DOORS ARE SHOWN IN APPROXIMATE LOCATIONS. SEE ARCH DWGS FOR EXACT LOCATIONS.
  - SEE SHEET S201 FOR GENERAL NOTES, ABBREVIATIONS & LEGEND (SYMBOLS).
  - SEE SHEET S31 FOR BASEPLATE SCHEDULE.
  - SEE SHEET S201 FOR TYPICAL SLAB ON GRADE DETAILS & FOUNDATION DETAILS.
  - DIMENSIONS TO WALL FOOTING STEP LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE FOOTING STEPS w/ LOCATIONS INDICATED ON FOUNDATION PLANS & TYPICAL FOOTING STEP DETAIL ON SHEET S201.

**FOUNDATION KEYNOTES**

NO.	DESCRIPTION
K1	SLAB ON GRADE CONSTRUCTION JOINT. SEE TYPICAL DETAIL ON S201
K2	FENCE BLOCK. SEE ARCH.

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**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER	62910099
PROJECT MANAGER	DA
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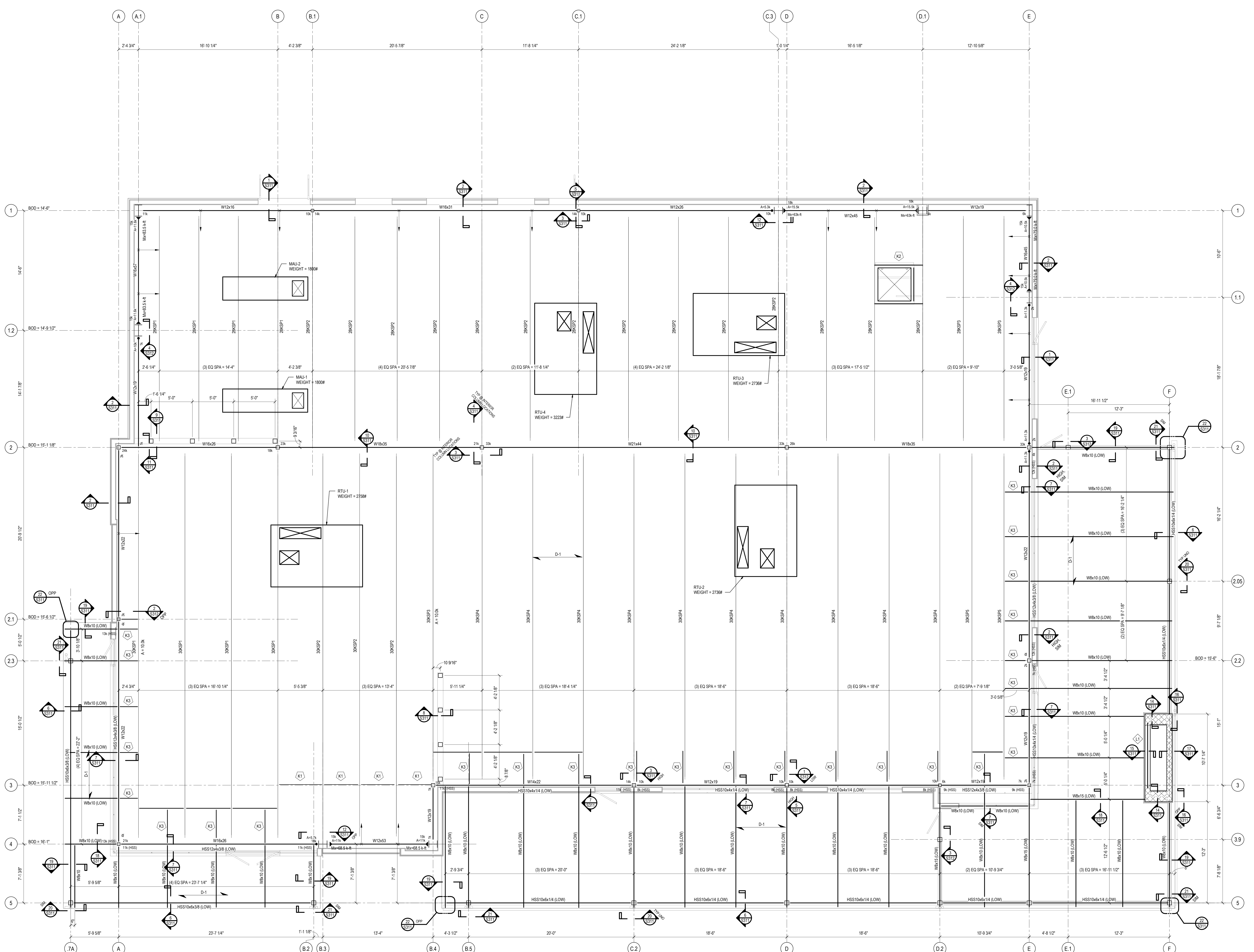
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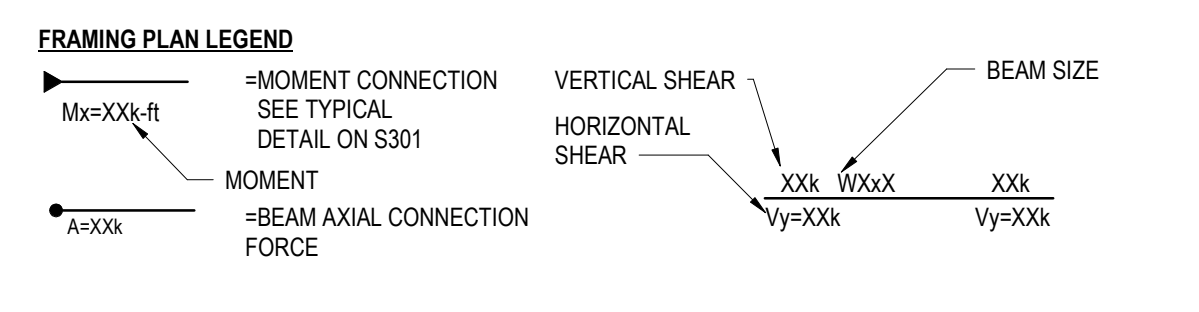
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ROOF FRAMING PLAN  
 SHEET NUMBER

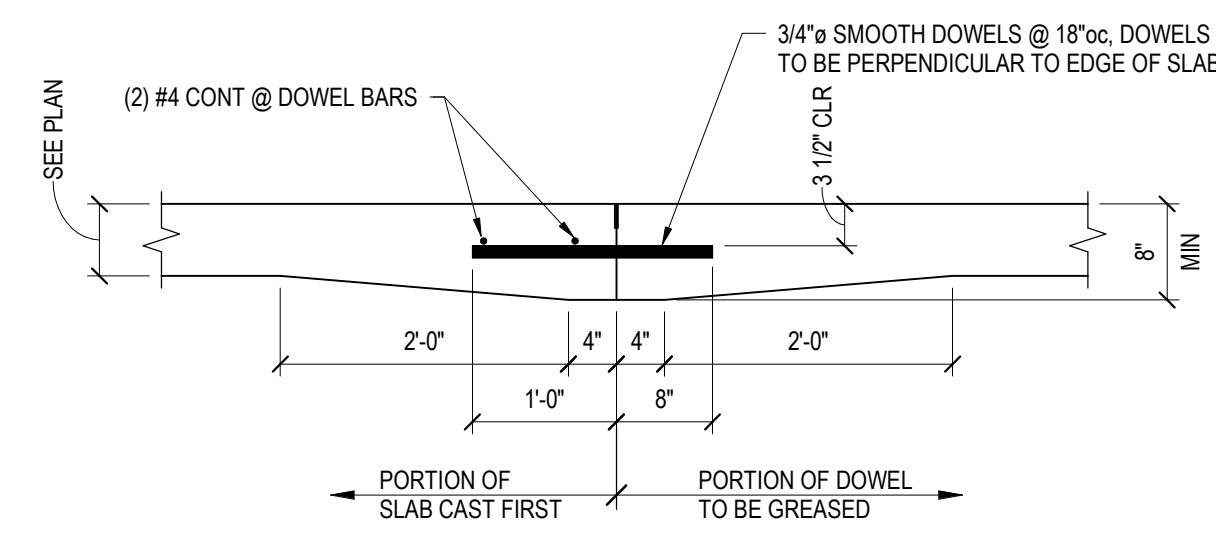


**ROOF FRAMING KEYNOTES**

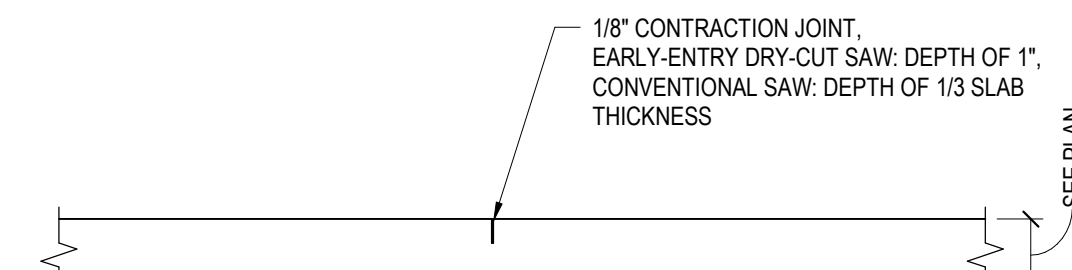
NO.	DESCRIPTION
K1	L4x4x1/4, SEE SECTION 13/S311
K2	ROOF HATCH, SEE "TYPICAL LARGE ROOF DECK OPENING DETAIL" ON SHEET S301
K3	L2x2x1/4 DIAGONAL BRACE, SEE SECTION 7/S311



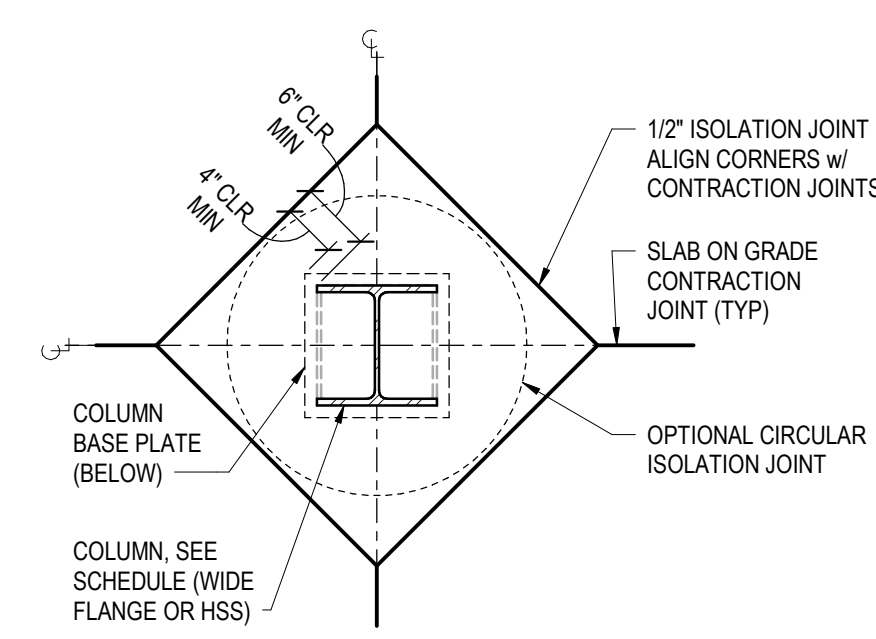
- PLAN NOTES**
- SEE SHEET S001 FOR ABBREVIATIONS & LEGEND (SYMBOLS).
  - ROOF FLOOR = SEE PLAN.
  - LOW ROOF BOB (CANOPY) = 11'-6", SEE ARCH FOR TAPERED INSULATION.
  - EDGE OF DECK IS 6" FROM CENTER OF STEEL BEAMS, TYPICAL AT PERIMETER, UNO.
  - JOIST MANUFACTURER:
    - ROOF JOIST ARE SUBJECT TO A NET UPLIFT DUE TO WIND, SEE SHEET S004 FOR DESIGN UPLIFT.
    - DESIGN JOISTS FOR 9.6 PSF DOWNWARD WIND LOAD (0.6WL) APPLY PER APPROPRIATE ASSE LOAD COMBINATIONS.
    - DESIGN JOISTS FOR UNIFORM LOAD AS STATED PLUS THE CONCENTRATED POINT LOADS SHOWN ON PLANS. JOIST UNIFORM LOADS ARE SERVICE LEVEL (1.0DL + 1.0L1 + 1.0L2).
    - DESIGN ALL JOISTS FOR AN ADDITIONAL (1) 500 LB CONCENTRATED FUTURE MECHANICAL UNIT LIVE LOAD LOCATED AT ANY TOP CHORD PANEL POINT. BAR JOIST NEED ONLY BE DESIGNED FOR (1) FUTURE MECHANICAL UNIT CONCENTRATED LOAD AT ANY GIVEN TIME. FUTURE MECHANICAL UNIT CONCENTRATED LOAD IS NOT INCLUDED IN THE JOIST LOADS LISTED ON FRAMING PLANS.
    - DESIGN JOIST TOP CHORDS FOR THE HORIZONTAL IN-PLANE AXIAL FORCES SHOWN ON PLAN. ALL AXIAL FORCES ARE SERVICE LEVEL (1.0DL + 0.7EQ). SEE SHEET PLAN & SECTIONS FOR PLATES REQUIRED AT ENDS OF JOISTS WITH AXIAL FORCES.
    - JOIST LOADS SHOWN ON PLAN DO NOT INCLUDE WEIGHTS OF MECHANICAL UNITS OR SPRINKLER MAIN LINES. GC SHALL COORDINATE FINAL MECHANICAL UNIT AND SPRINKLER MAIN SIZES, LOCATIONS, & WEIGHTS w/ JOIST MANUFACTURER PRIOR TO JOIST FABRICATION.
    - DESIGN JOISTS FOR L240 MAXIMUM WIND, SEISMIC, OR ROOF LIVE LOAD VERTICAL DEFLECTION, UNLESS NOTED OTHERWISE. DESIGN JOISTS FOR L180 MAXIMUM TOTAL LOAD DEFLECTION.
    - FABRICATE ALL JOISTS w/ S11 RECOMMENDED CAMBER, UNO.
    - MECHANICAL UNITS (RTUs) SHOWN ON PLAN ARE ESTIMATE WEIGHTS & LOCATIONS ONLY. JOIST MANUFACTURER SHALL DESIGN THE TOP CHORD OF EACH SUPPORTING JOIST FOR 25% OF THE LOAD SPECIFIED. GC SHALL COORDINATE FINAL RTU SIZE, LOCATION, & WEIGHT w/ JOIST MANUFACTURER PRIOR TO JOIST FABRICATION.
    - PROVIDE BRIDGING AT JOISTS PER S11.
    - ALL SIMPLE BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10 DL (RTU) UNO ON PLAN.
  - DECKING IS TO BE CONTINUOUSLY SUPPORTED AT EACH END OF DECK PANEL.
  - DOORS AND WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
  - SPRINKLER MAINS SHALL BE INSTALLED AT THE SPECIFIC LOCATIONS SHOWN ON THE FIRE PROTECTION DRAWINGS.
  - SEE SHEET S301 FOR TYPICAL FRAMING DETAILS.
  - SEE SHEET S301 FOR METAL DECK CONNECTION PLAN & SCHEDULE.
  - SEE SHEET S301 FOR TYPICAL FRAMING DETAILS.
  - ALL LOADS, FORCES, & MOMENTS ARE ULTIMATE LEVEL (LRFD) UNLESS NOTED OTHERWISE.
  - MECHANICAL EQUIPMENT SIZES, LOCATIONS, AND WEIGHTS SHOWN ARE BASIS OF DESIGN. CONTRACTOR SHALL CONFIRM FINAL WEIGHTS DO NOT EXCEED THE VALUES INDICATED AND SHALL COORDINATE SUPPORTING STEEL LOCATIONS BASED ON THE FINAL UNIT SIZES AND MECHANICAL CURB DETAIL. PROVIDE COORDINATED FRAMING LOCATION DIMENSIONS ON LIMITED SHOP DRAWINGS FOR REVIEW BY EOR.
  - SEE TYPICAL ROOF MECHANICAL UNIT SUPPORT DETAILS FOR ADDITIONAL FRAMING REQUIRED AT UNITS.



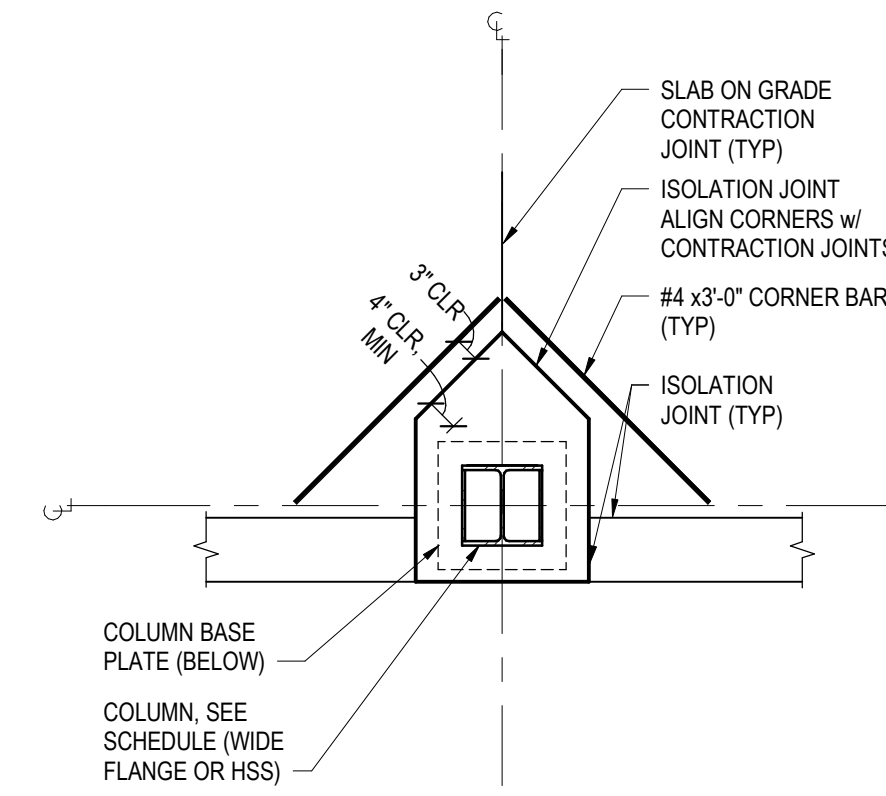
**SLAB ON GRADE TYPICAL CONSTRUCTION JOINT**  
NTS



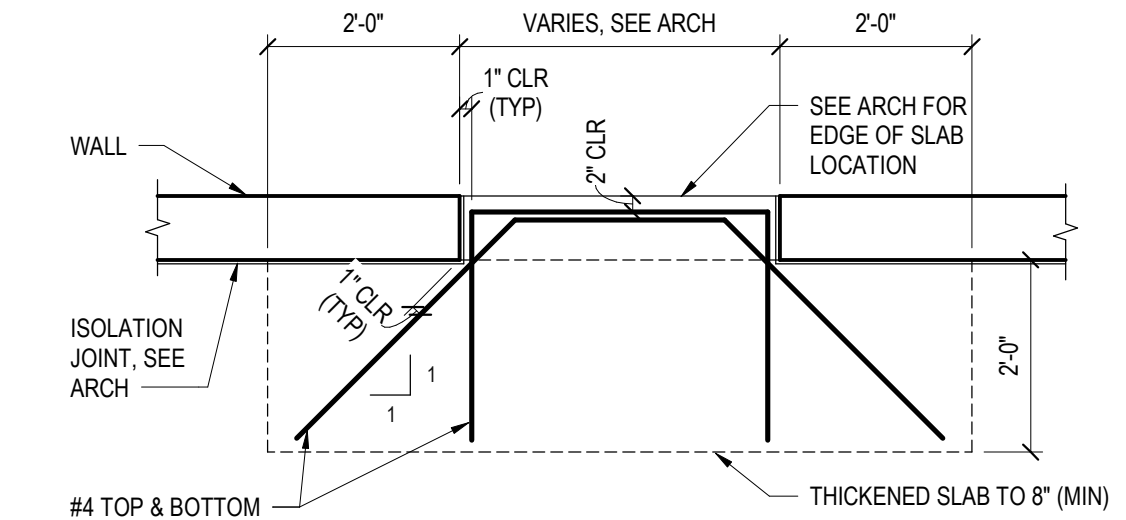
**SLAB ON GRADE TYPICAL CONTRACTION JOINT**  
NTS



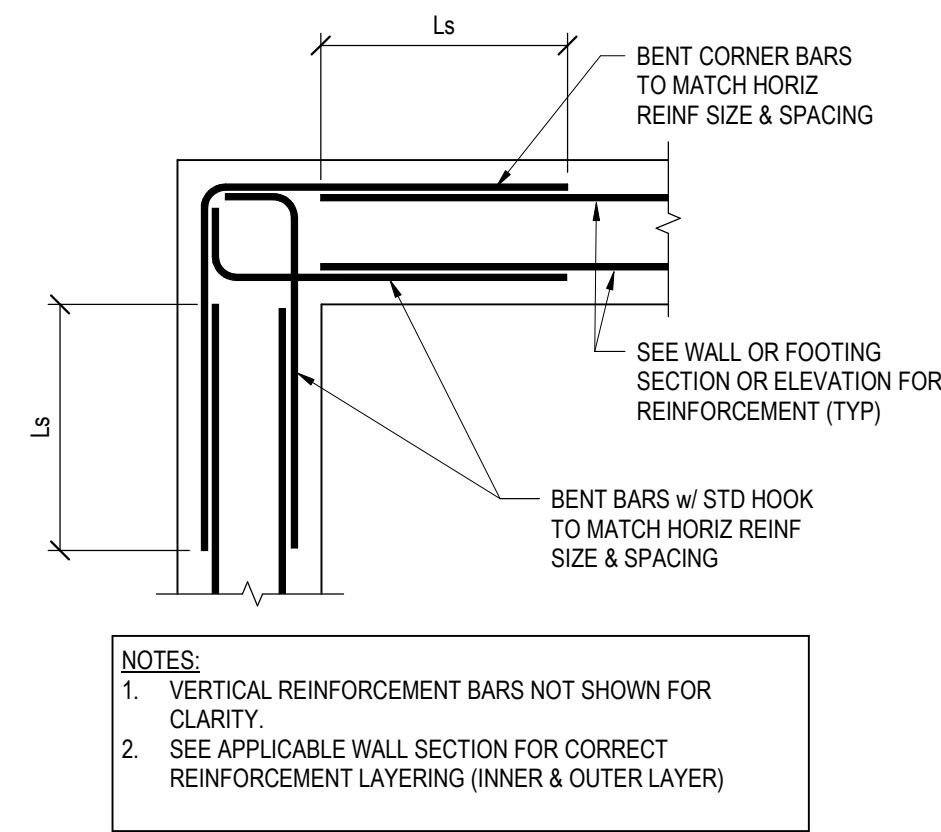
**TYPICAL COLUMN BOX OUT ISOLATION JOINT**  
NTS



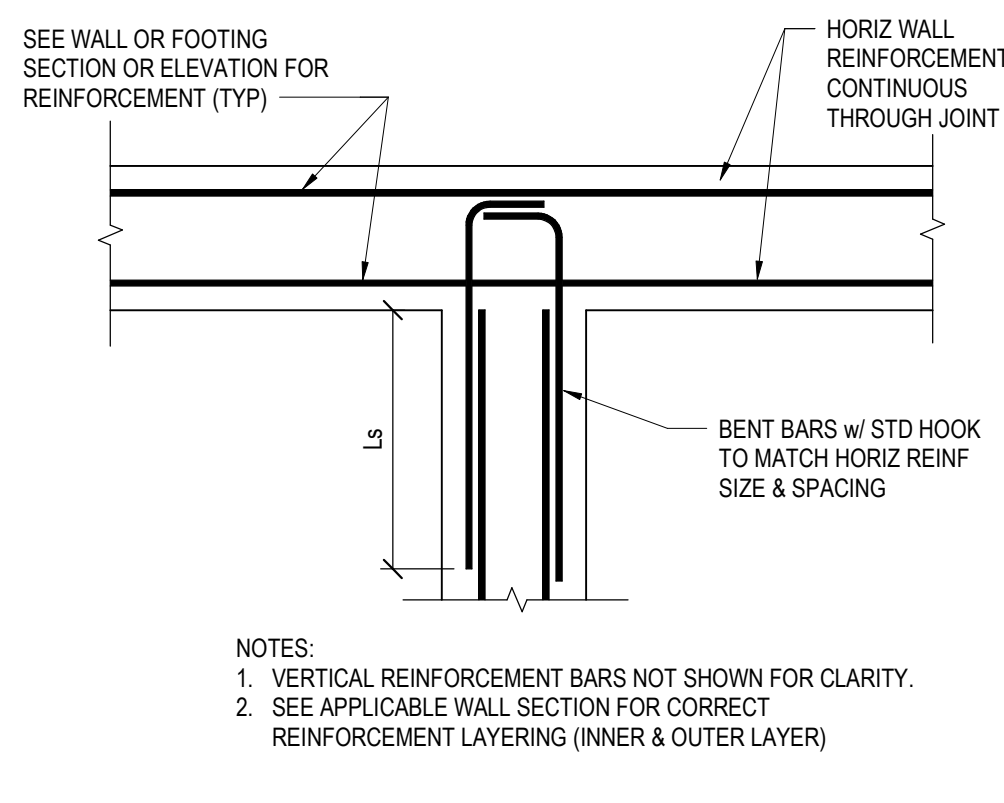
**TYPICAL CONCRETE COLUMN BOX OUT ISOLATION JOINT AT EDGE OF SLAB**  
NTS



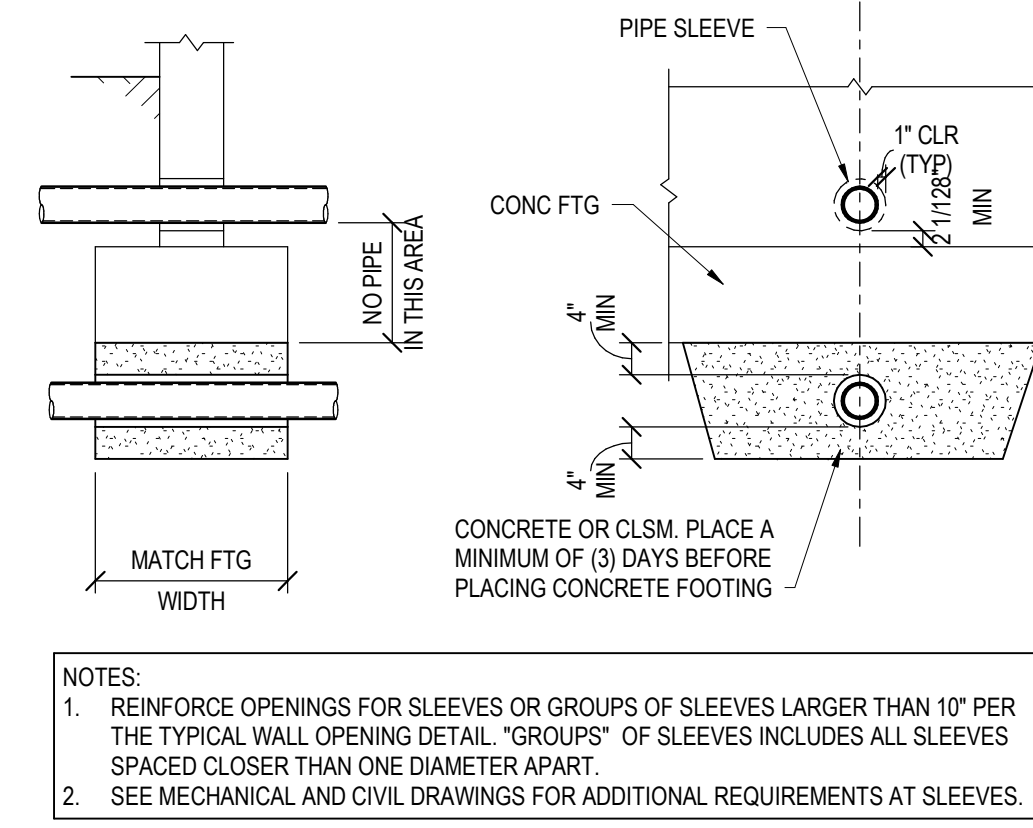
**TYPICAL SLAB ON GRADE AT DOOR THRESHOLD**  
NTS



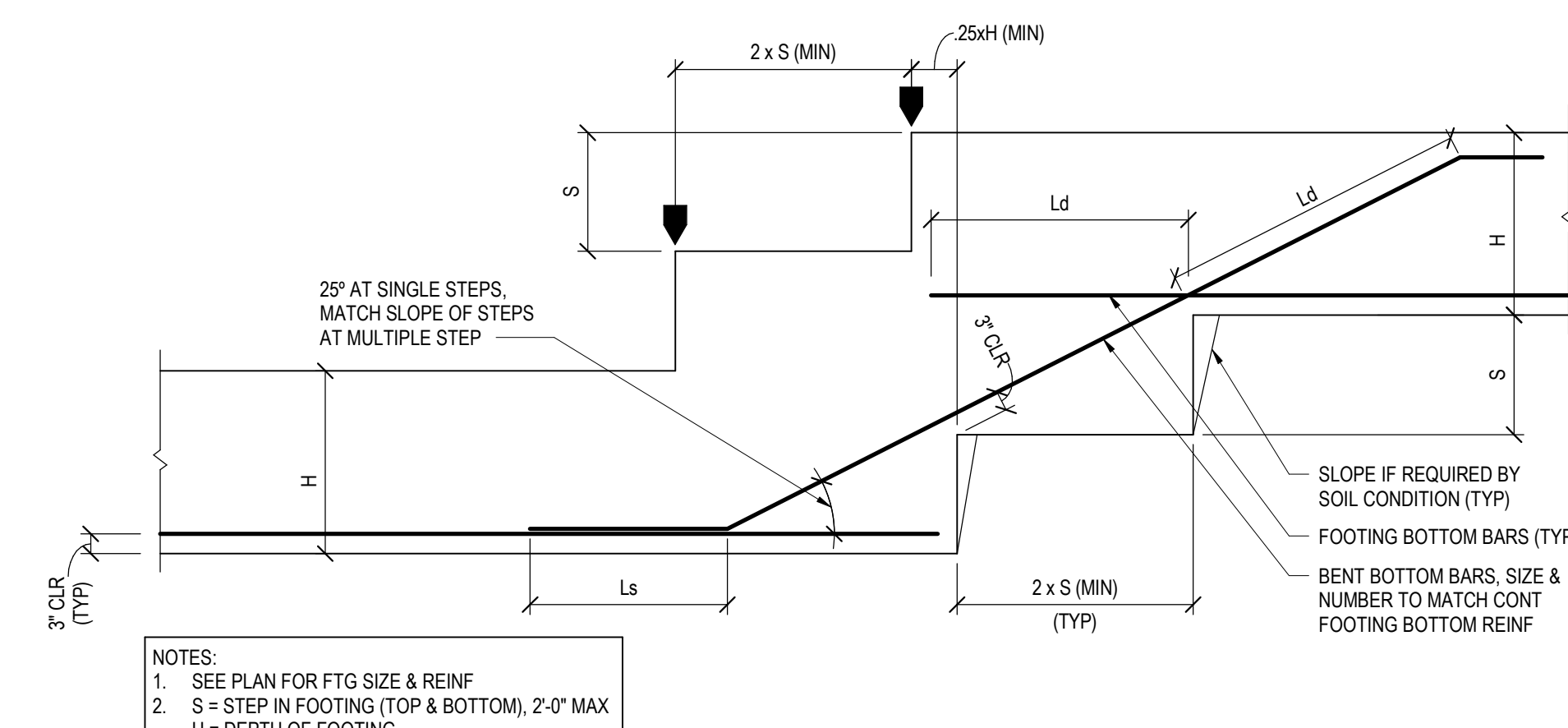
**TYPICAL CONCRETE WALL & FOOTING CORNER REINFORCEMENT DETAIL AT DOUBLE CURTAIN OF STEEL**  
NTS



**TYPICAL CONCRETE WALL & FOOTING INTERSECTION REINFORCEMENT DETAIL AT DOUBLE CURTAIN OF STEEL**  
NTS



**TYPICAL PIPE SLEEVE THROUGH STRIP FOOTING**  
NTS



**TYPICAL STEP IN FOOTING**  
NTS

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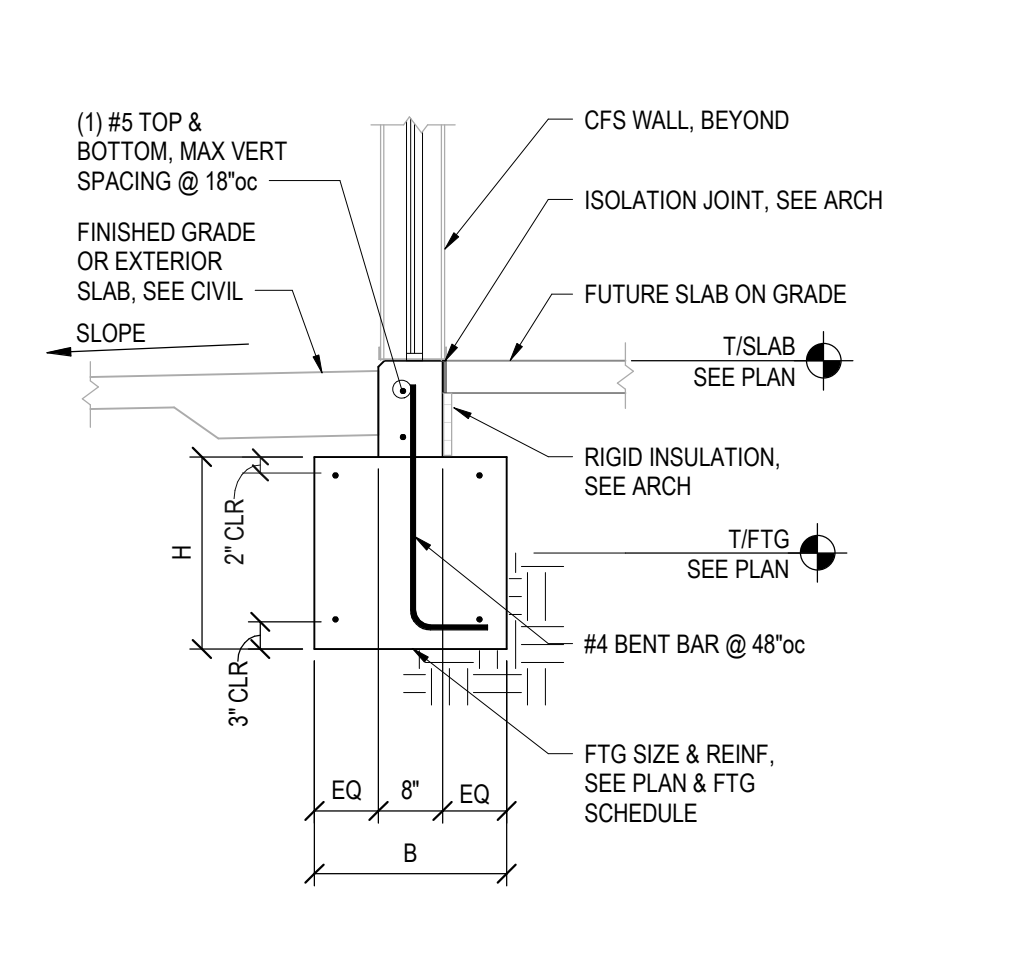
SHEET NAME  
**TYPICAL FOUNDATION DETAILS & SECTIONS**  
SHEET NUMBER

**S201**

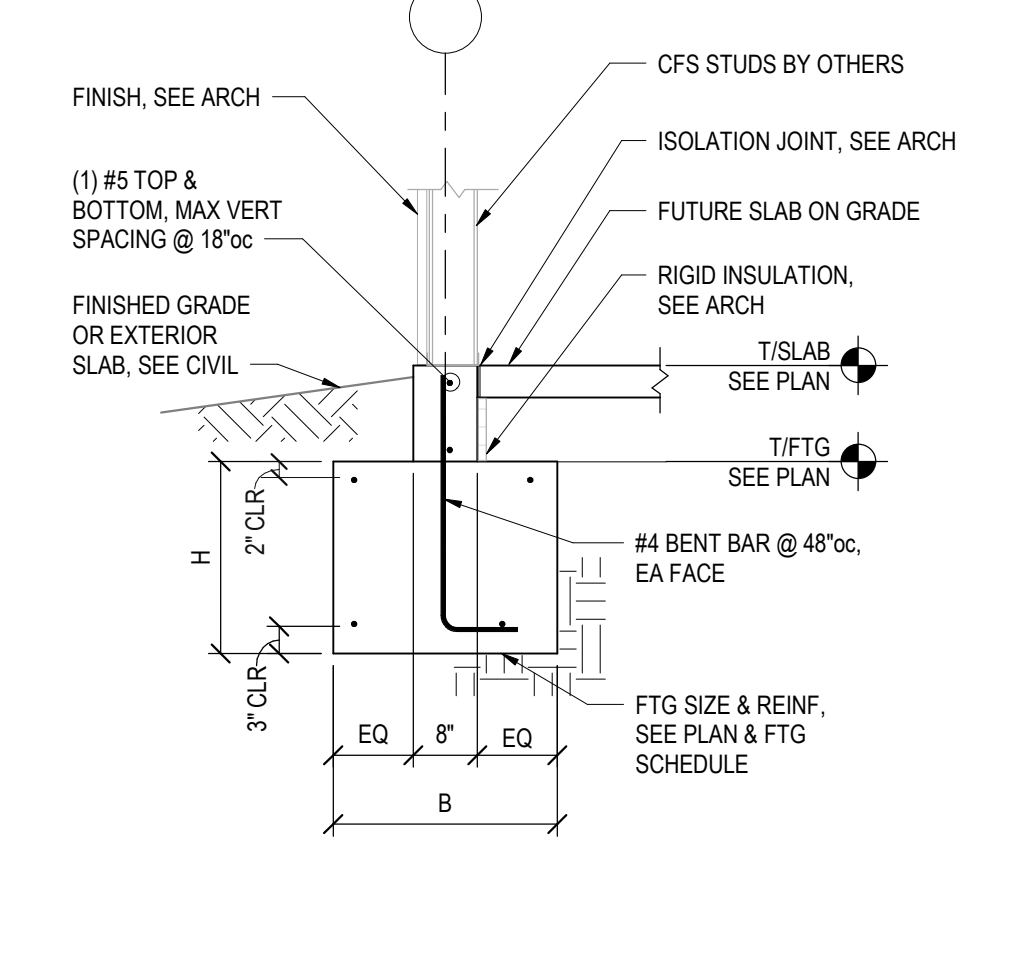
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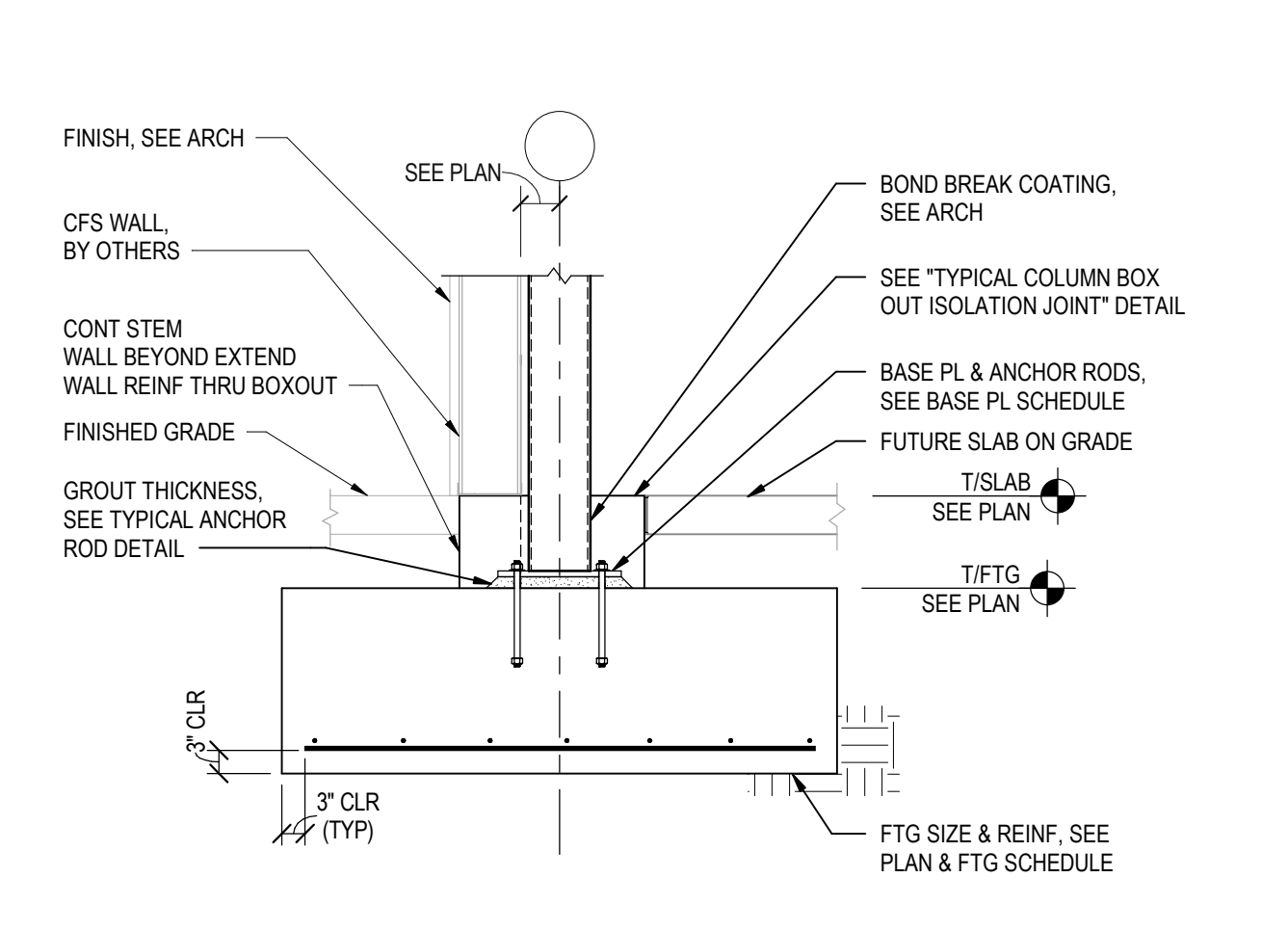
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**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE



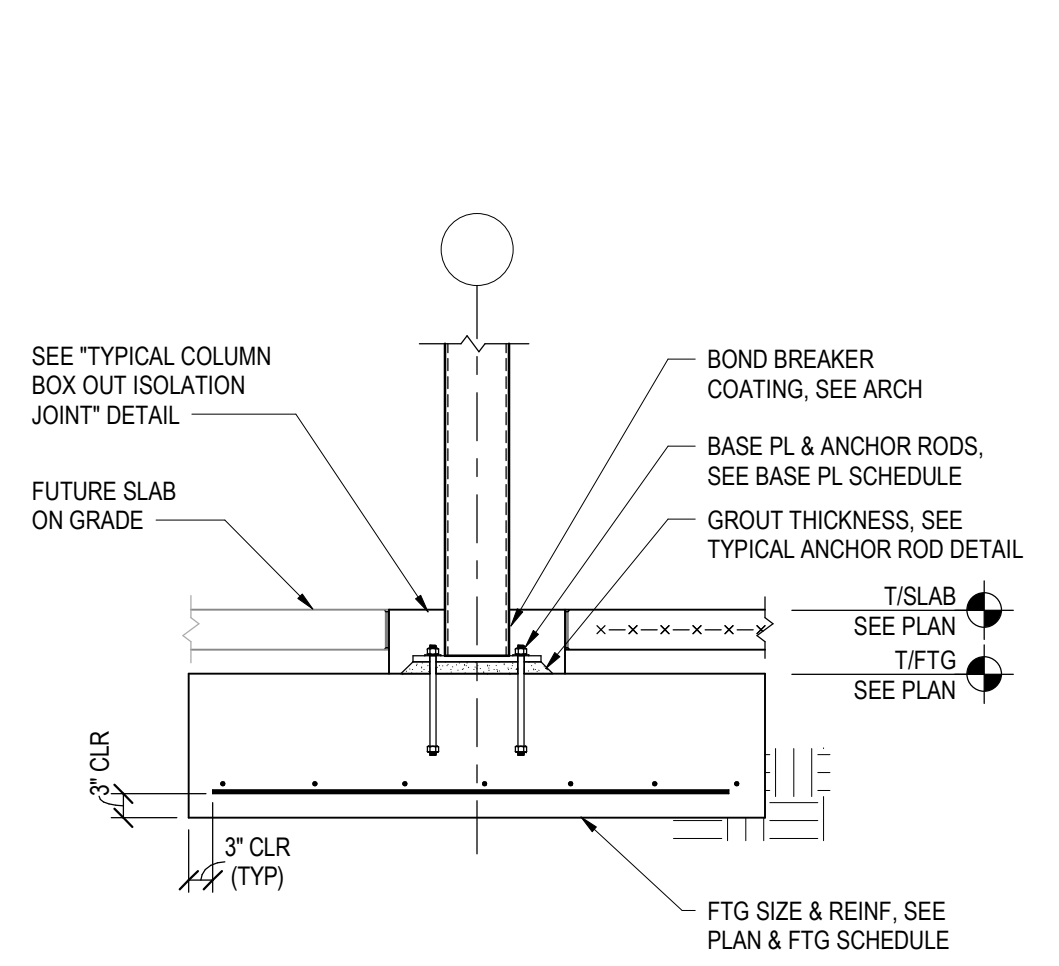
SECTION 1  
1/2" = 1'-0" S211



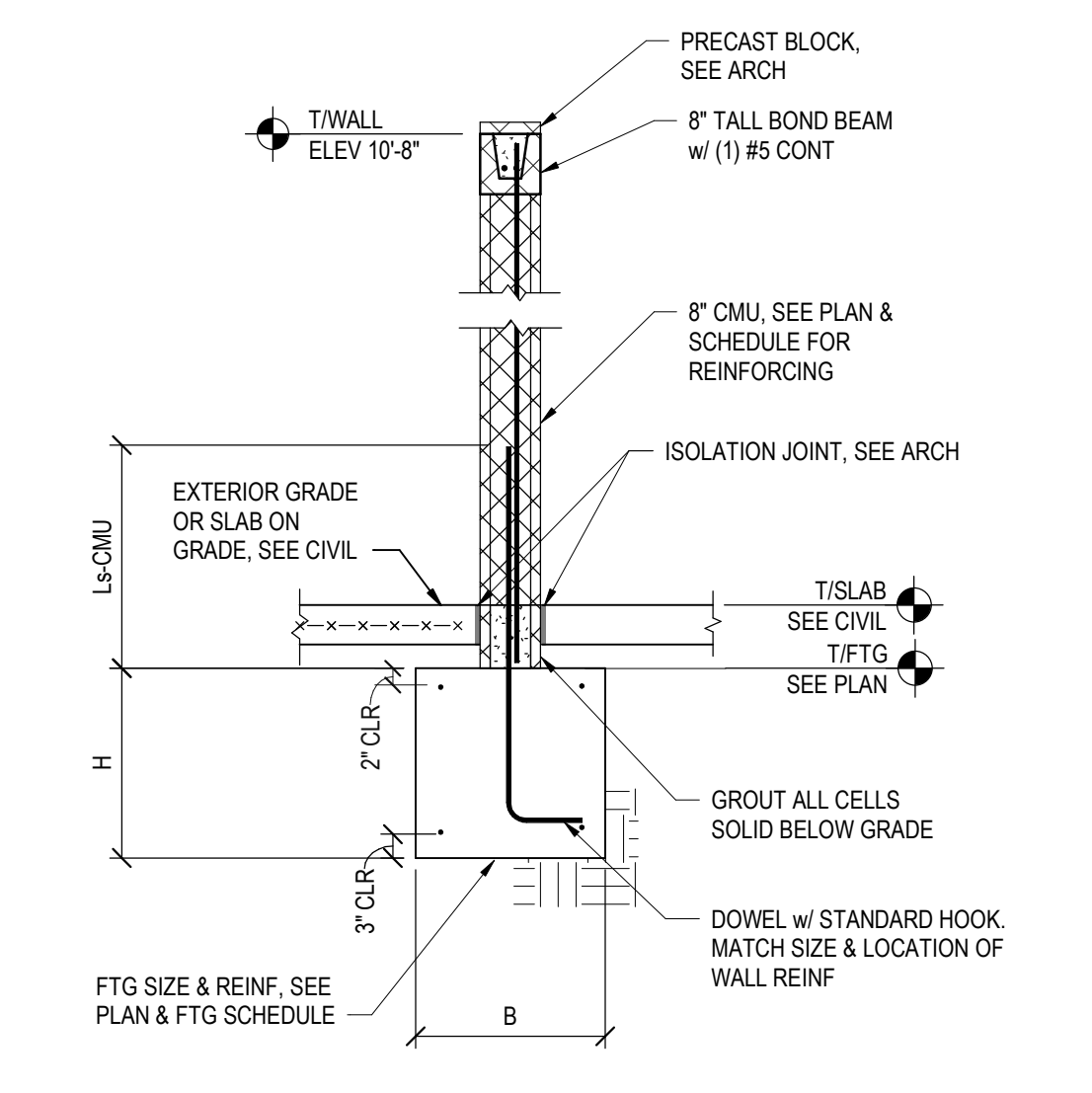
SECTION 2  
1/2" = 1'-0" S211



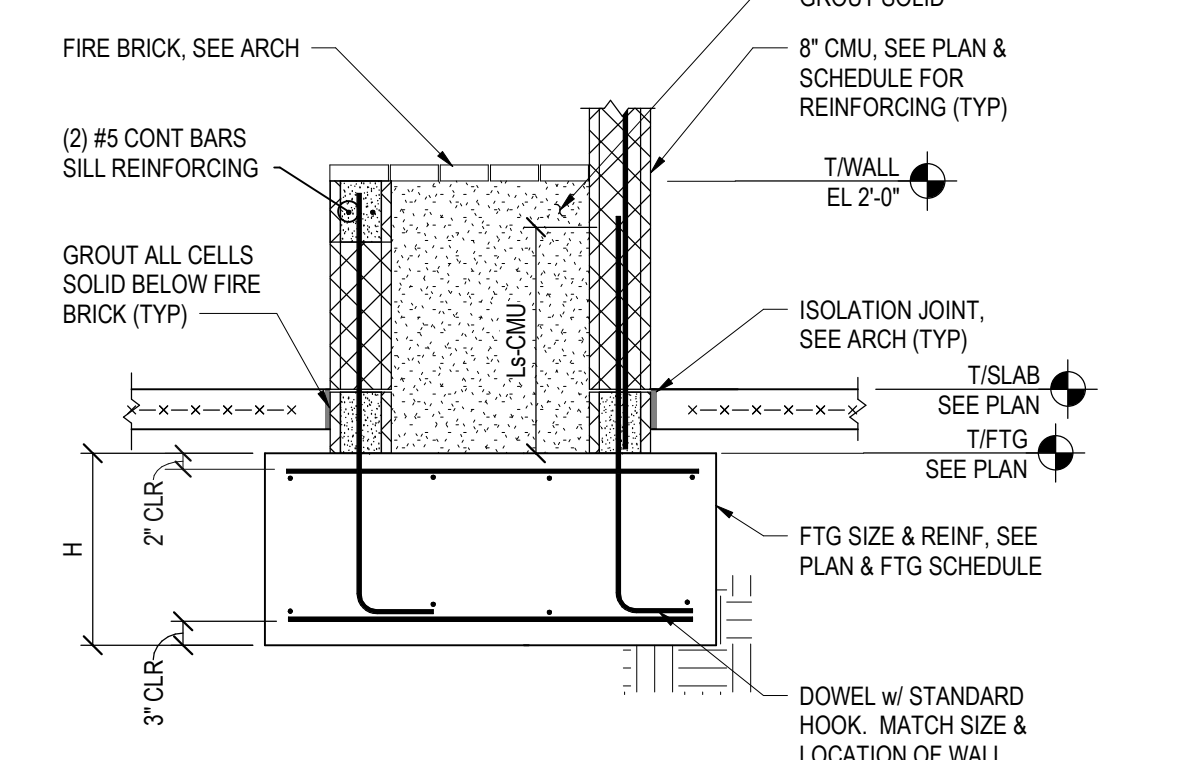
SECTION 3  
1/2" = 1'-0" S211



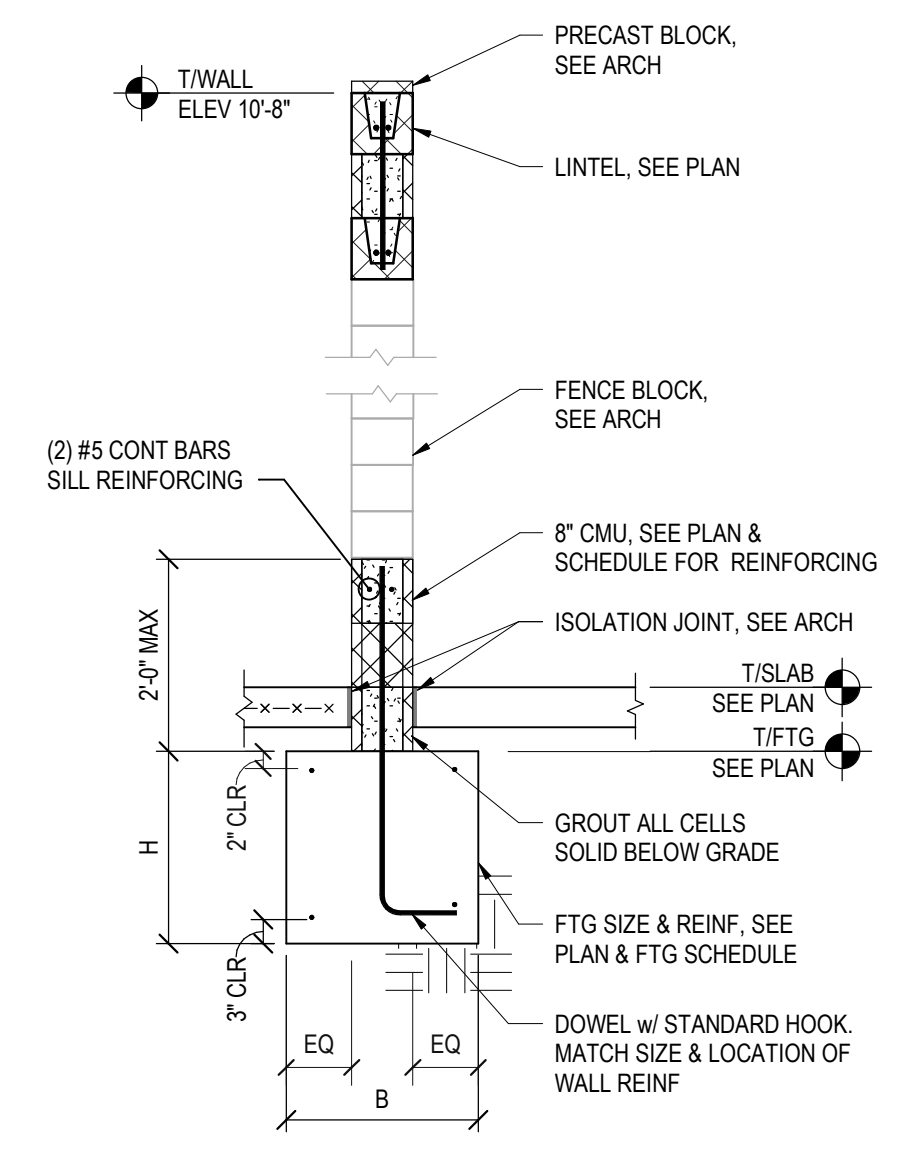
SECTION 4  
1/2" = 1'-0" S211



SECTION 5  
1/2" = 1'-0" S211

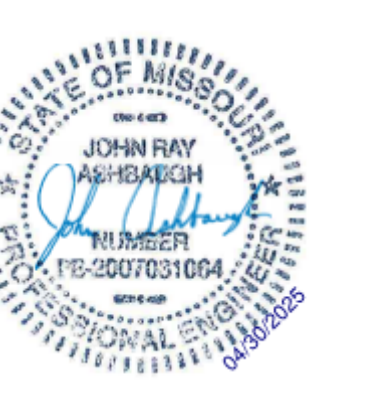


SECTION 6  
1/2" = 1'-0" S211



SECTION 7  
1/2" = 1'-0" S211

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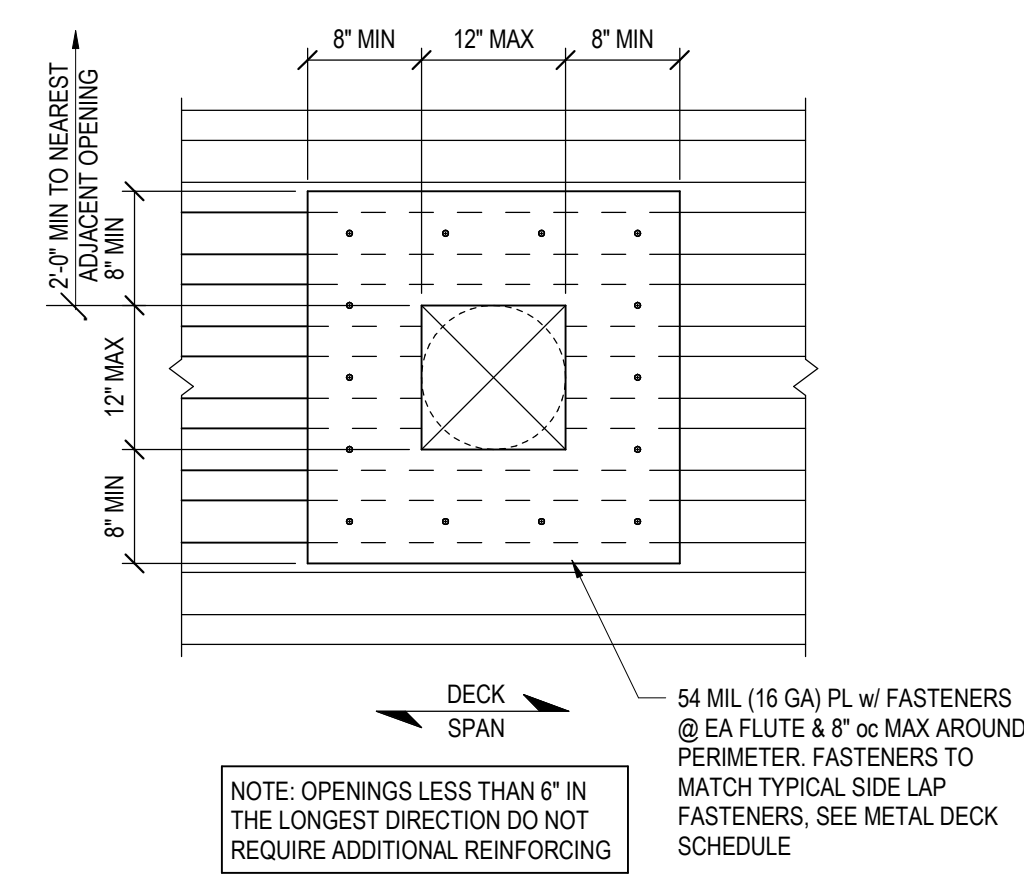
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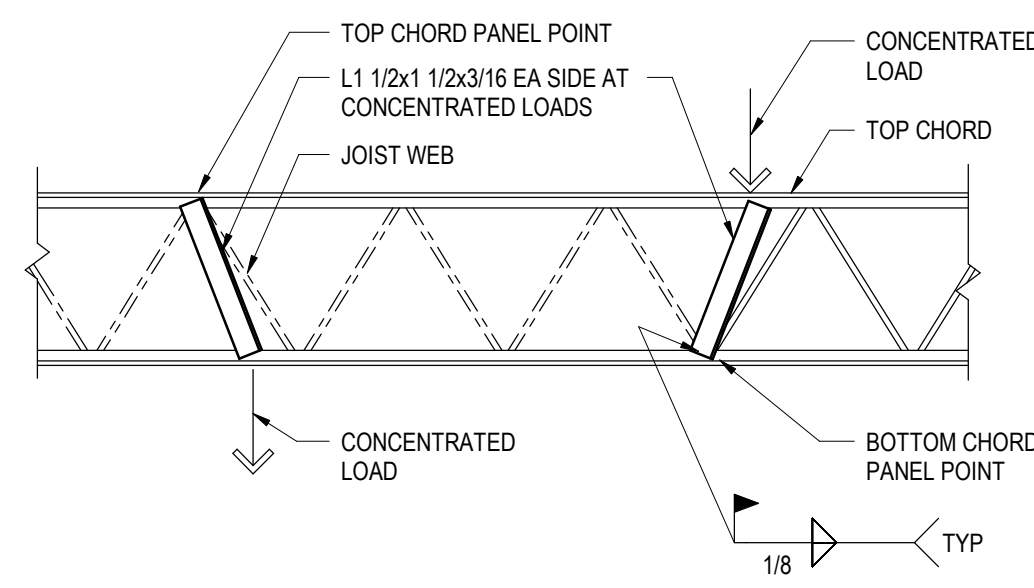
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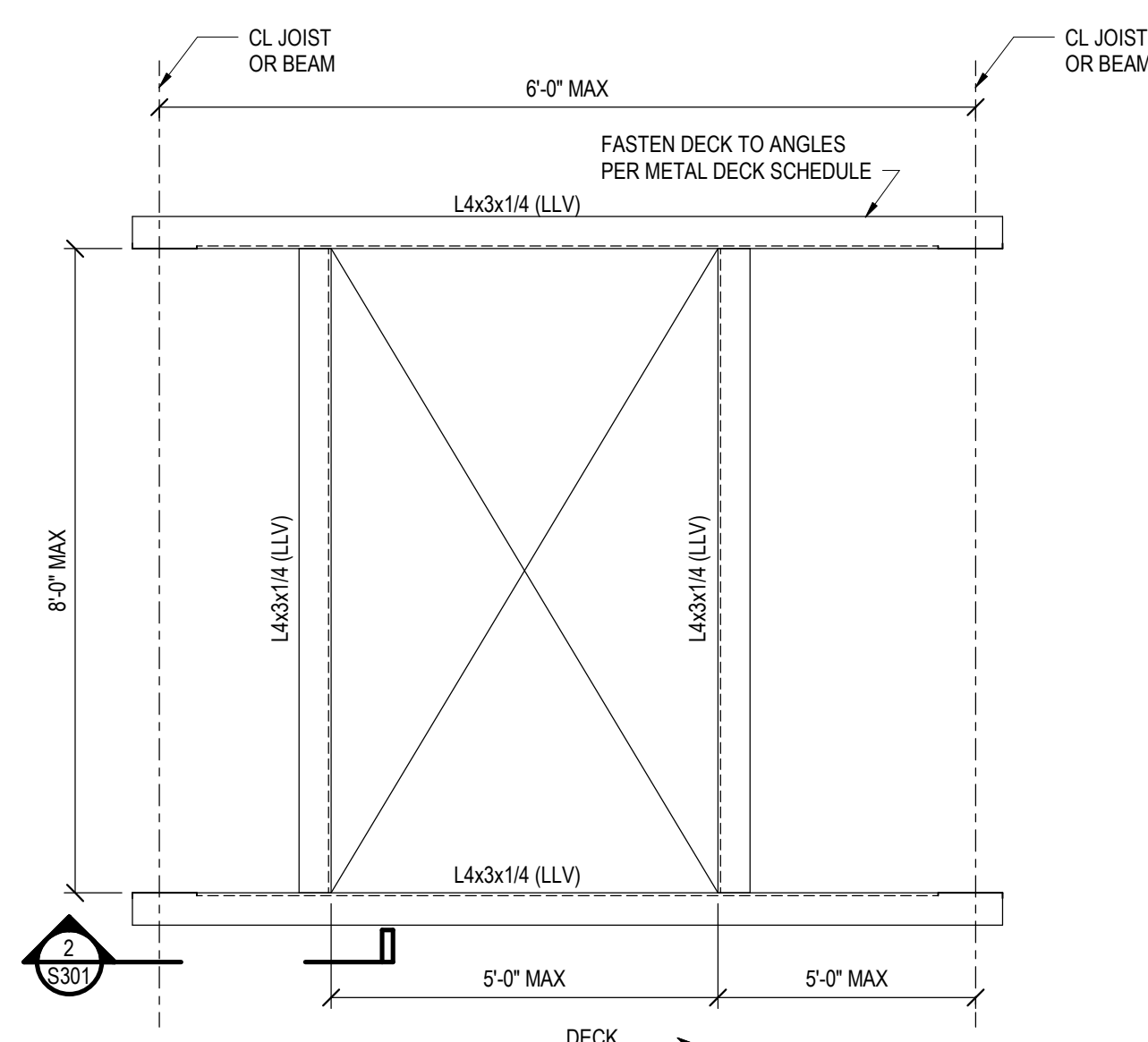
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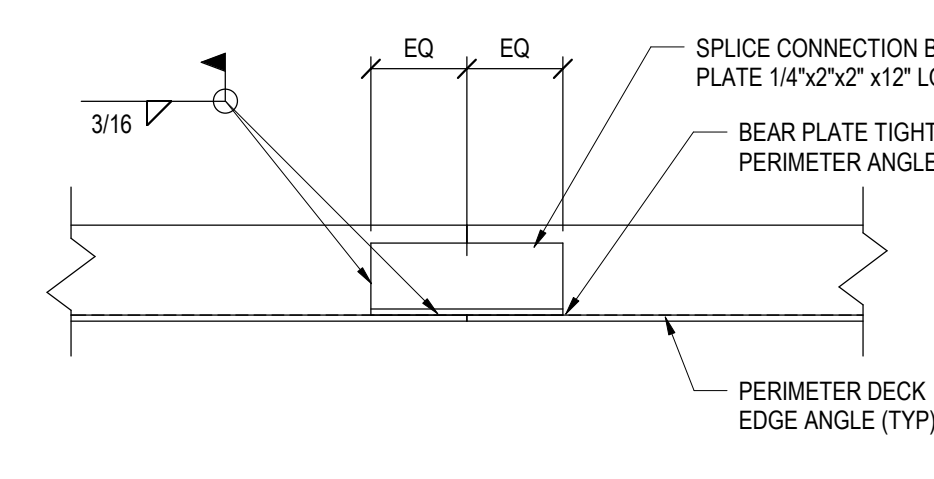
TYPICAL SMALL ROOF DECK OPENING DETAIL FOR OPENINGS  $\leq 12'$   
NTS



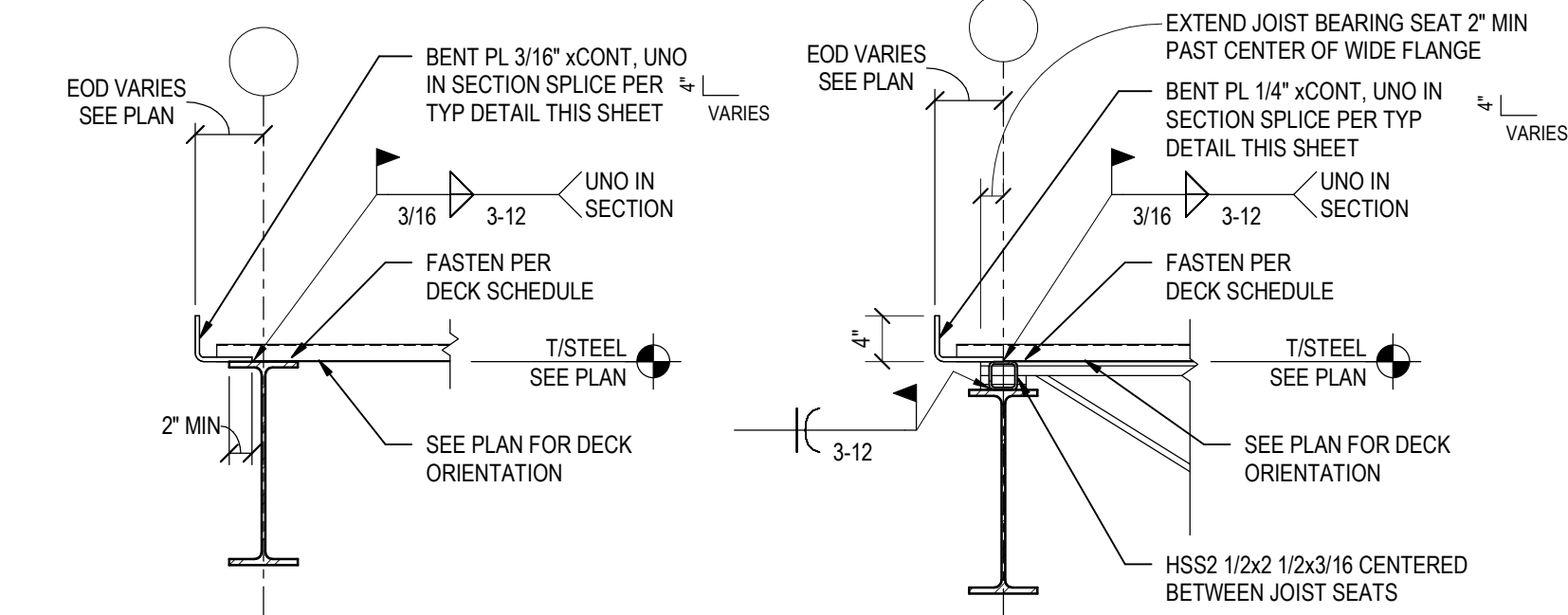
TYPICAL SUPPORT OF CONCENTRATED LOADS NOT AT JOIST PANEL POINTS  
NTS



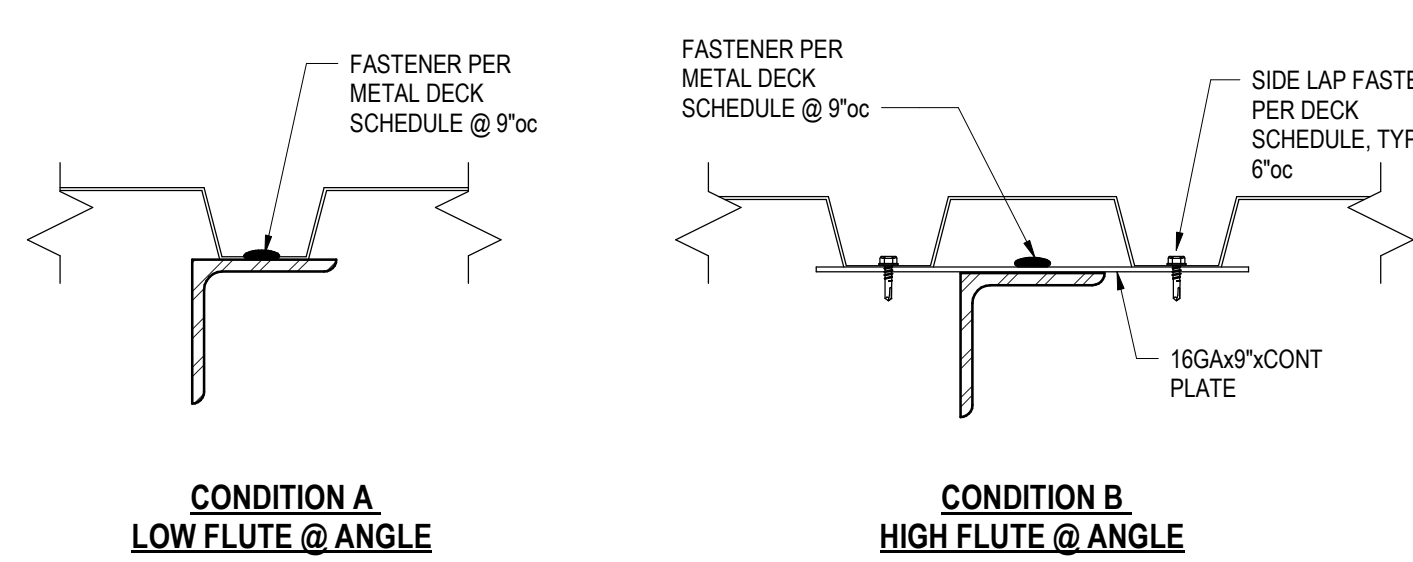
TYPICAL LARGE ROOF DECK OPENING DETAIL  
NTS



TYPICAL DECK ANGLE SPLICE DETAIL  
NTS

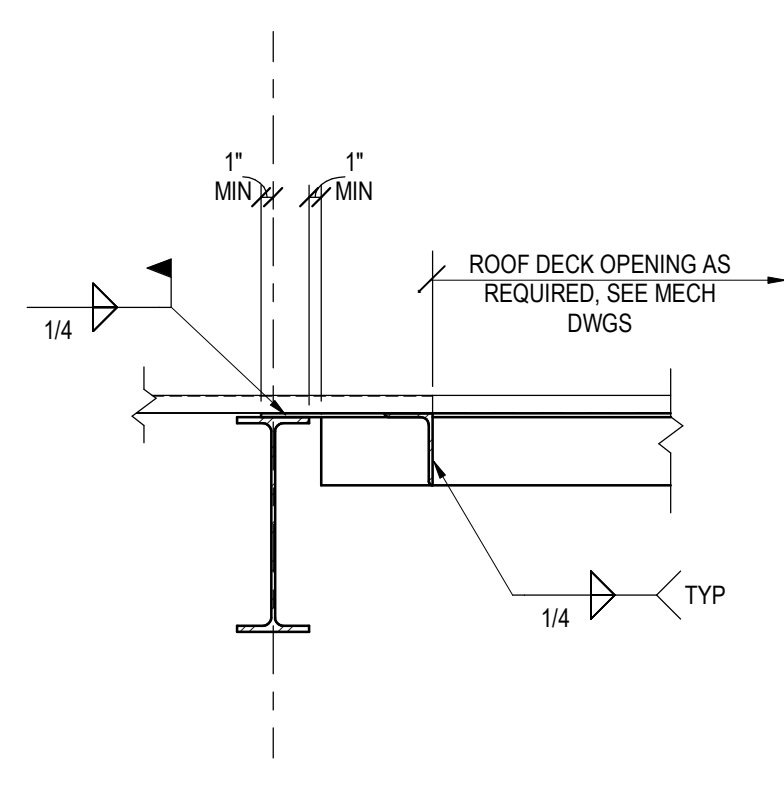


TYPICAL EDGE OF ROOF DECK DETAIL  
NTS

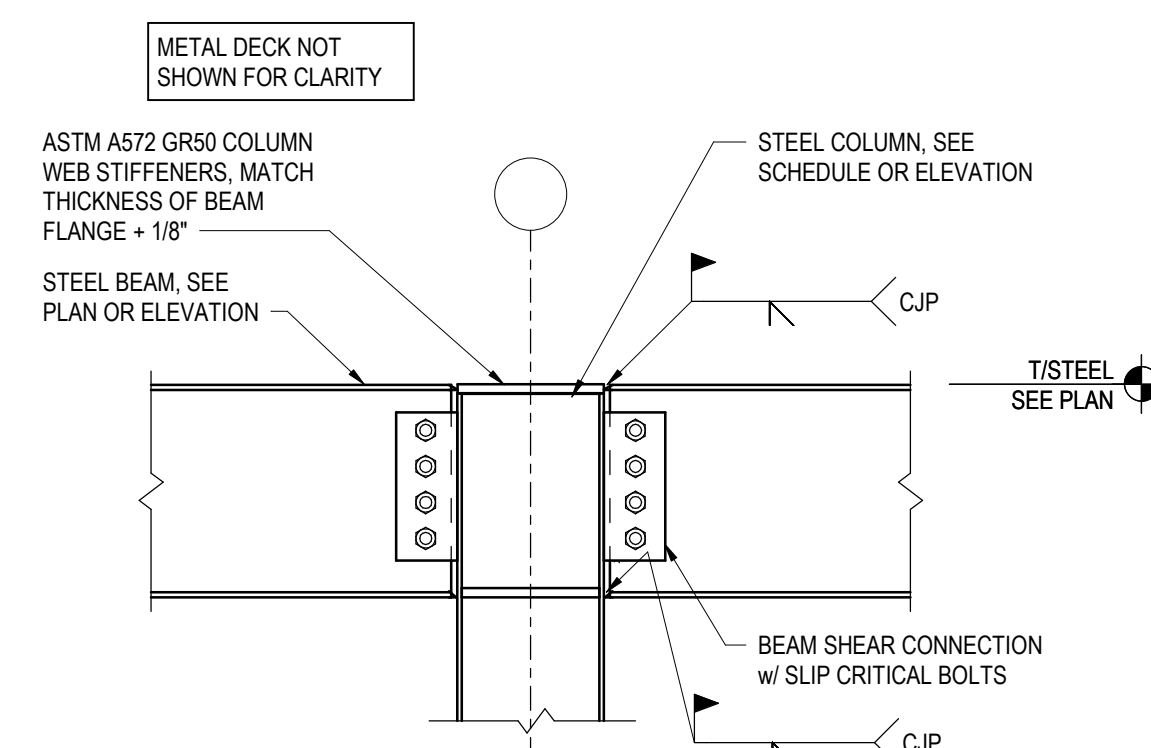


SECTION 1  
NTS S301

TYPICAL ANGLE TO BEAM CONNECTION  
NTS

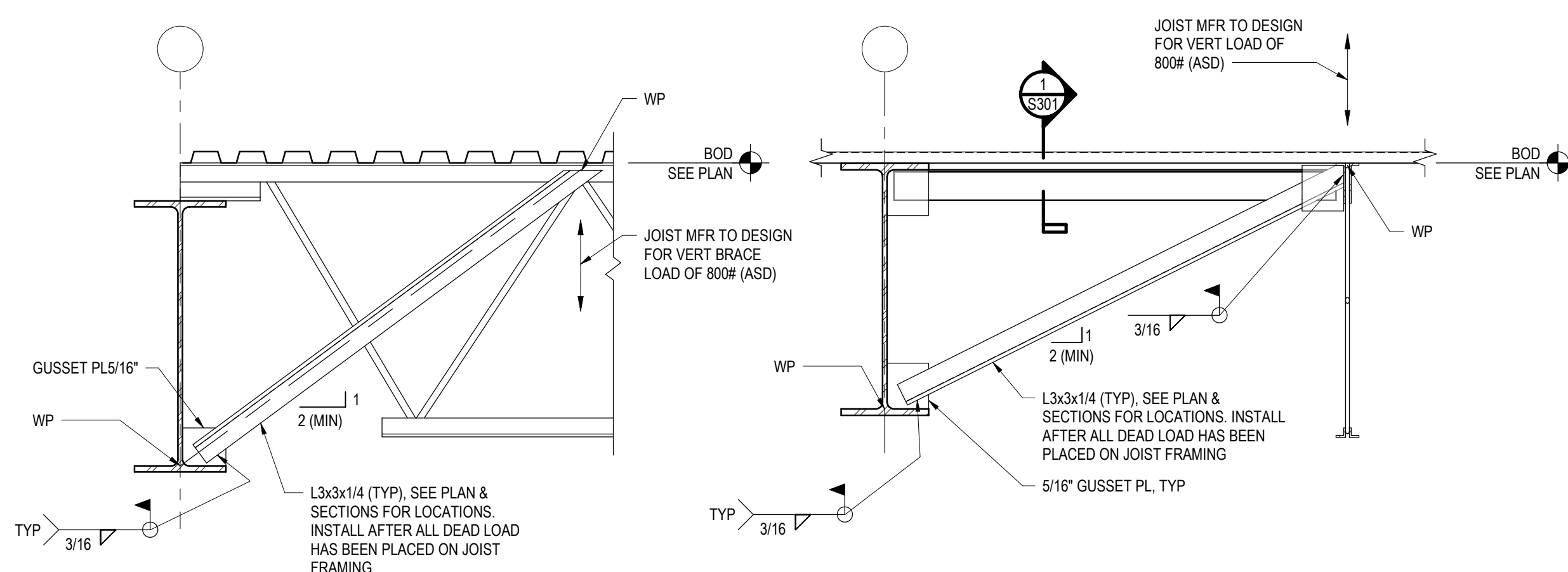


SECTION 2  
NTS S301

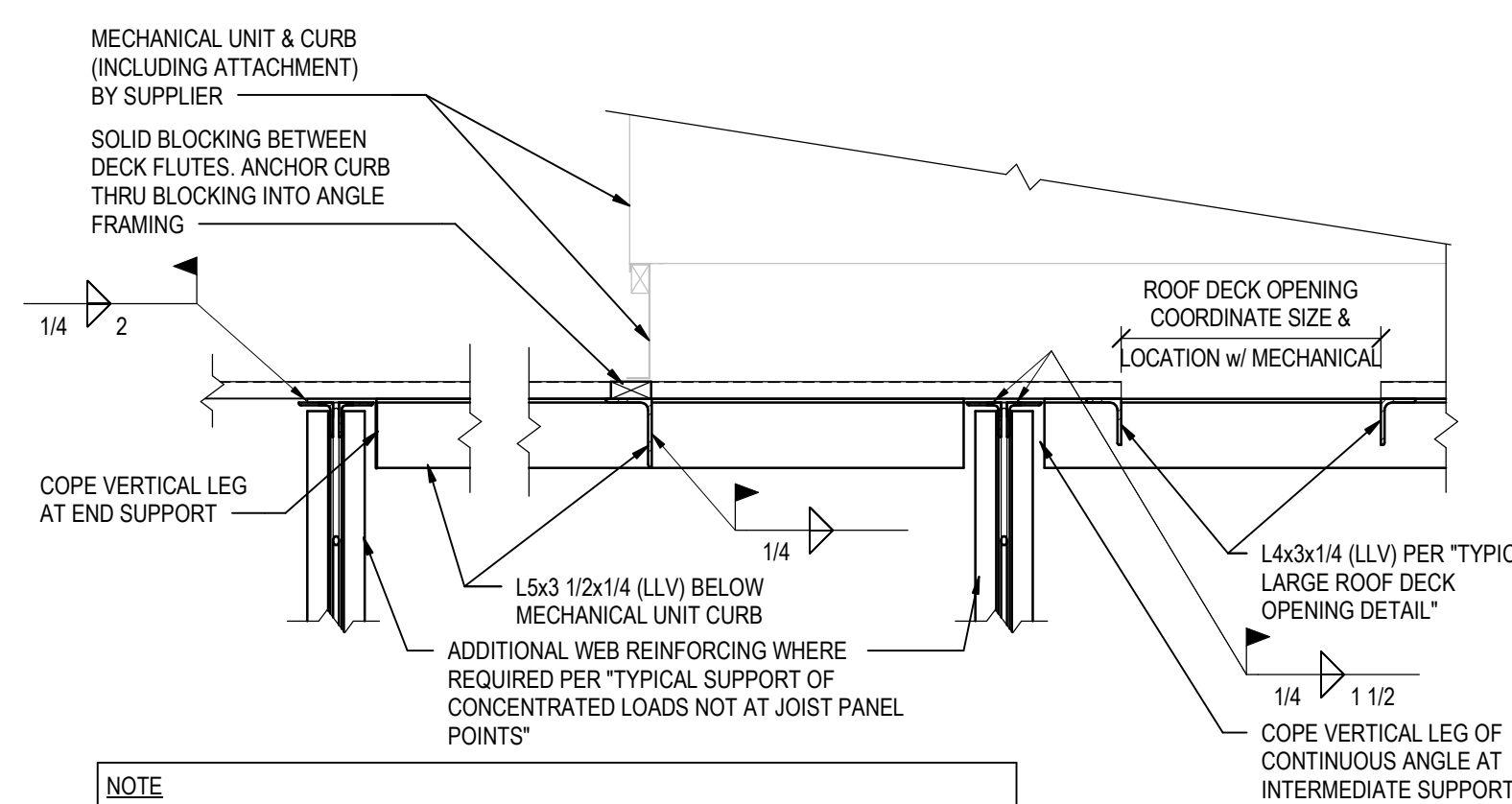


TYPICAL BEAM TO COLUMN MOMENT CONNECTION (WELDED)  
3/4" = 1'-0"

NOTES:  
1. WHERE NO FORCES ARE INDICATED, DESIGN CONNECTION FOR FULL MOMENT CAPACITY OF MEMBER, USING LRFD DESIGN PROCEDURES.  
2. ALTERNATE BOLTED MOMENT CONNECTION DETAILS MAY BE SUBMITTED FOR REVIEW AT STEEL FABRICATOR'S OPTION.



TYPICAL BEAM BOTTOM FLANGE BRACING DETAIL AT ROOF  
3/4" = 1'-0"



TYPICAL ROOF MECHANICAL UNIT SUPPORT - CURB ON DECK  
3/4" = 1'-0"

NOTE:  
COORDINATE ROOF FRAMING WITH FINAL SELECTION OF ROOF SUPPORTED MECHANICAL EQUIPMENT AND ASSOCIATED OPENINGS. ITEMS TO BE COORDINATED INCLUDE SIZE, LOCATION, TOTAL WEIGHT, WEIGHT DISTRIBUTION, AND SUPPORT FRAME REQUIREMENTS.

PROJECT NUMBER	62910099
PROJECT MANAGER	DA
DRAWN BY	GJB
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TYPICAL FRAMING DETAILS & SECTIONS

SHEET NUMBER

S301

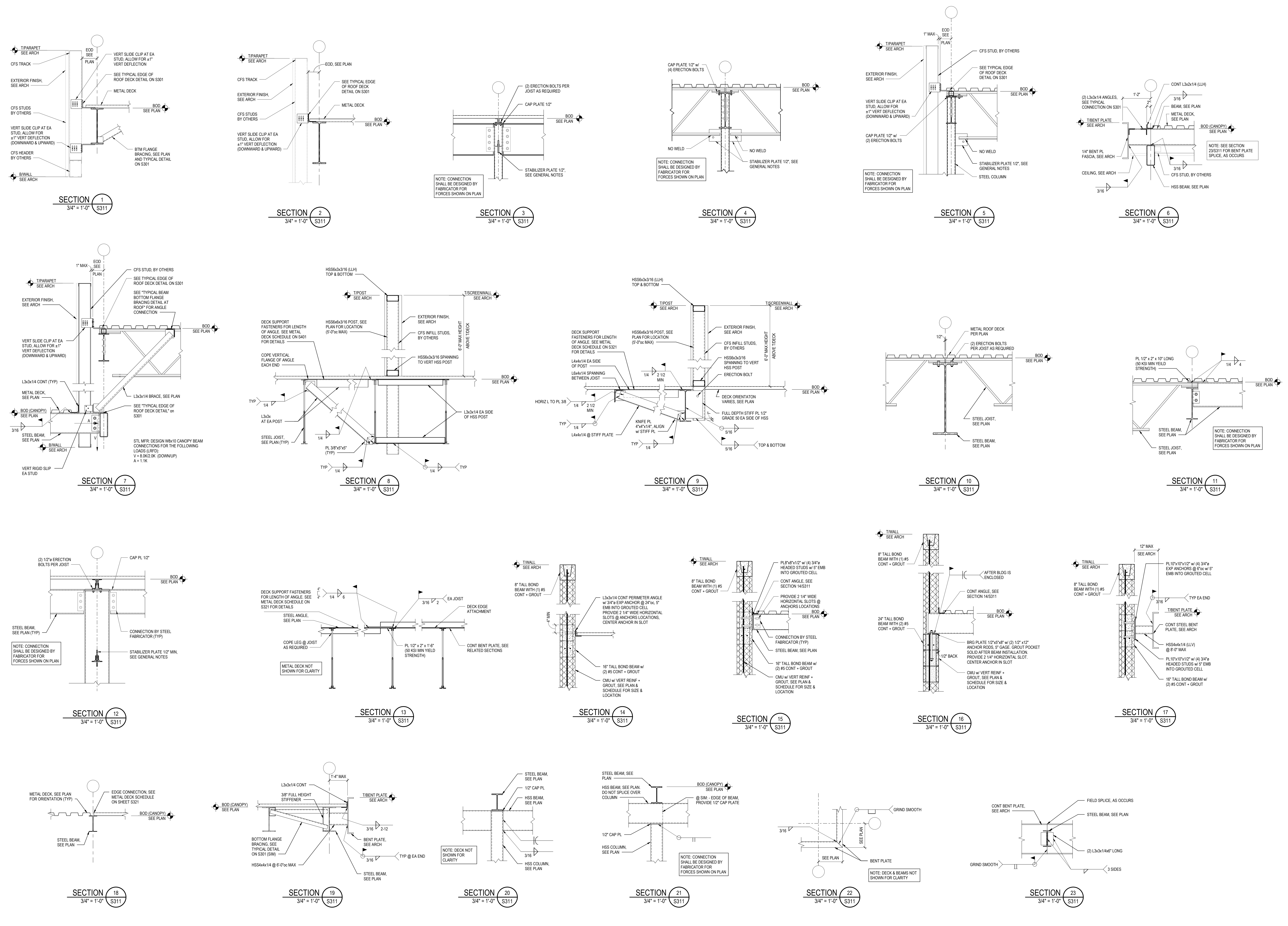
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Schaefer, Project Number: 24-1021

# Q39 (SHELL)

## LEE'S SUMMIT, MO

OLDHAM VILLAGE



PROJECT NUMBER: 62910099

PROJECT MANAGER: DDA  
DRAWN BY: GJB  
CHECKED BY:

PROFESSIONAL SEAL



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**ISSUES AND REVISIONS**

NUMBER	DATE	REVISION	DESCRIPTION

SHEET NAME

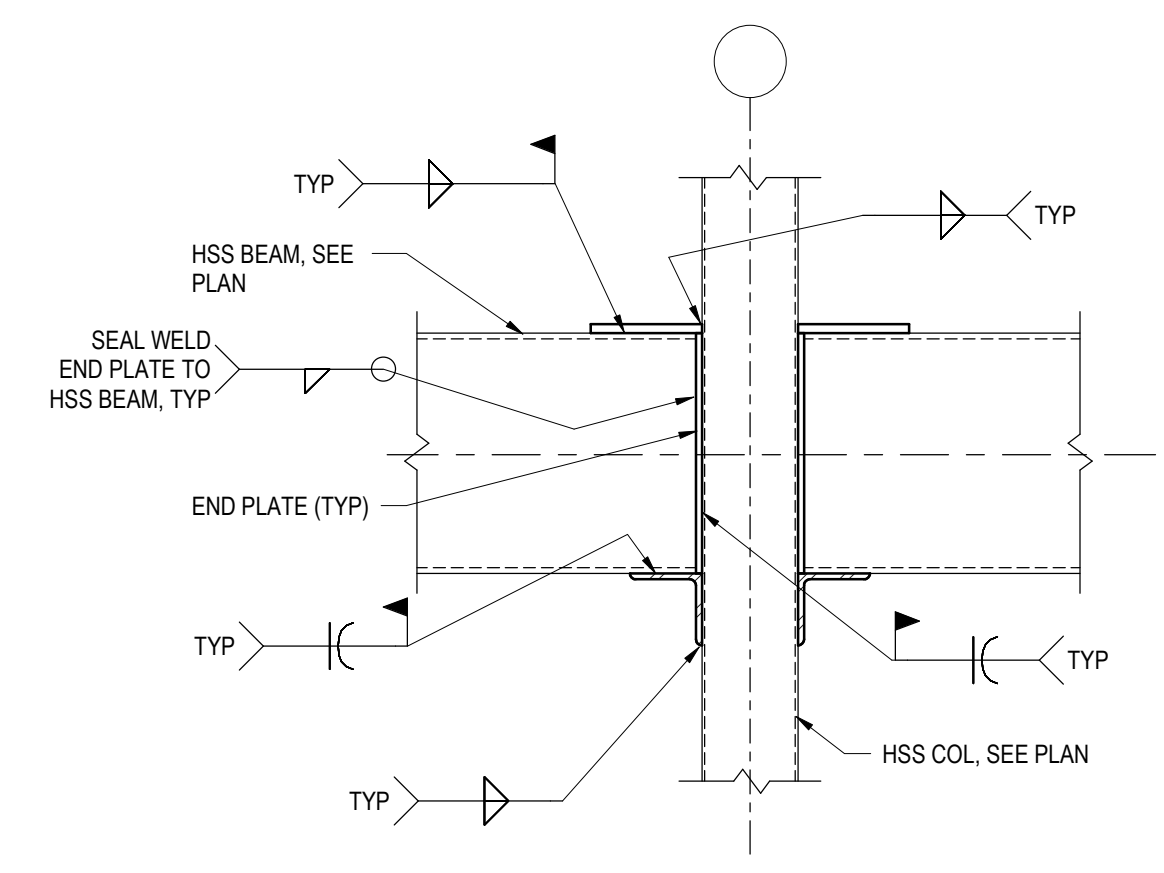
**FRAMING DETAILS & SECTIONS**

SHEET NUMBER

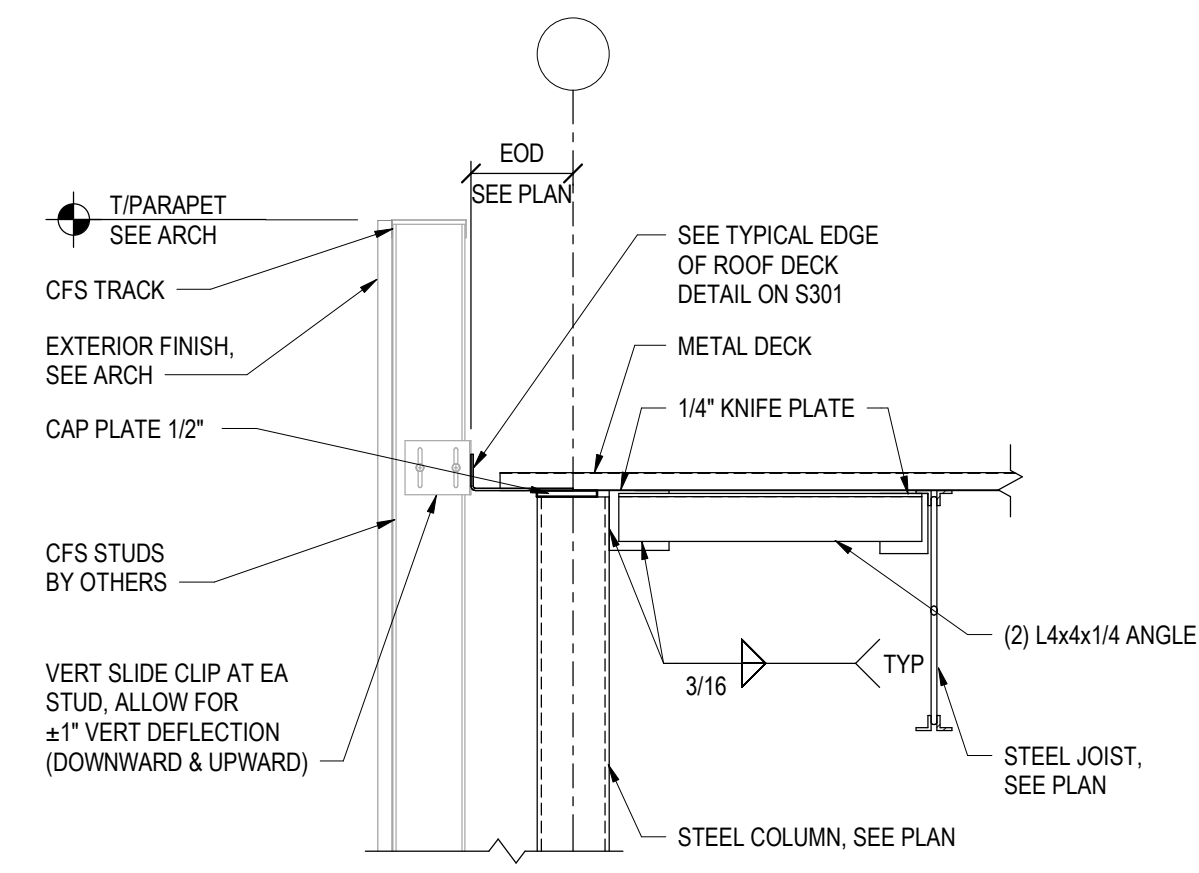
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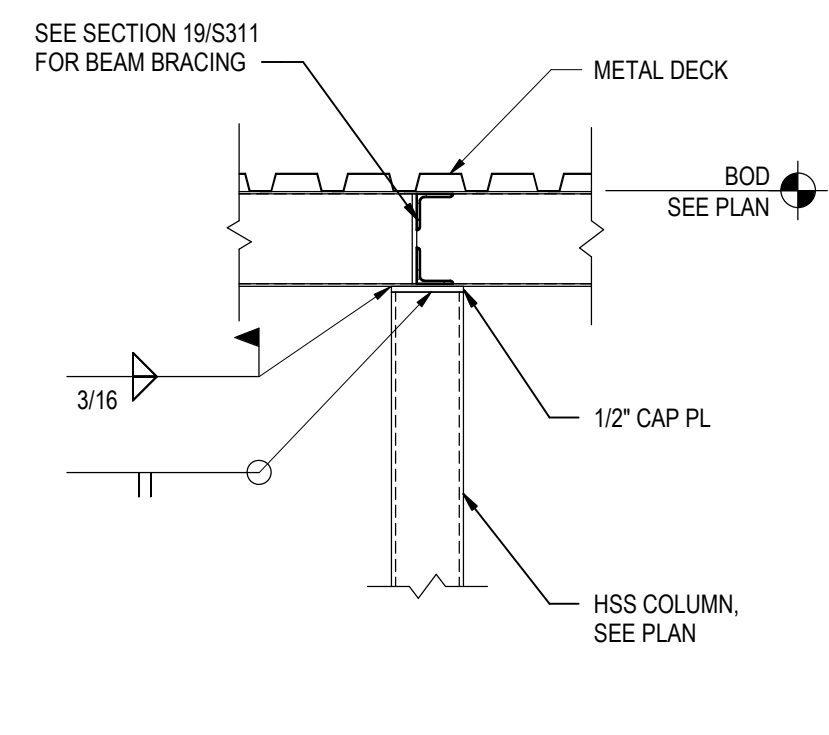
# S311



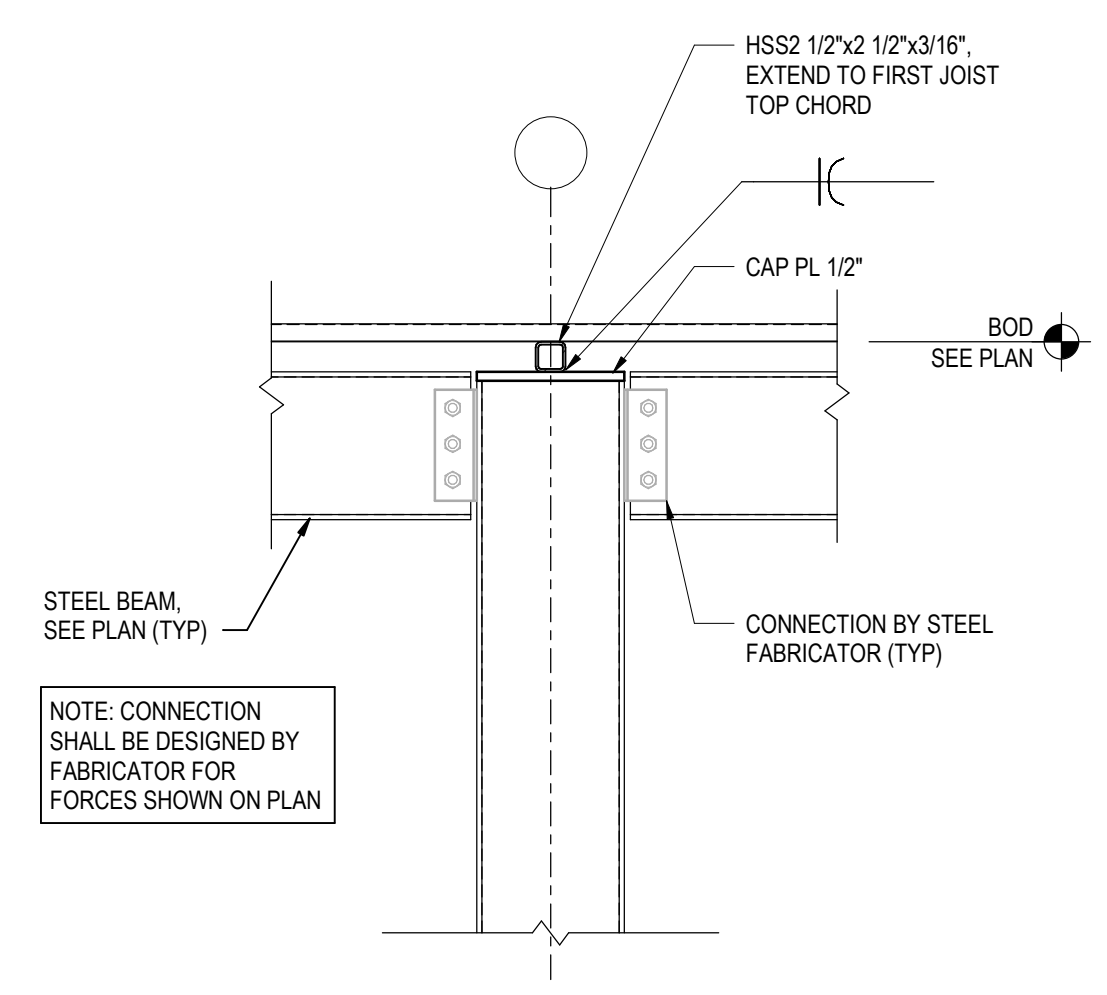
SECTION 1  
3/4" = 1'-0" S312



SECTION 2  
3/4" = 1'-0" S312



SECTION 3  
3/4" = 1'-0" S312



SECTION 4  
3/4" = 1'-0" S312

ARCHITECT OF RECORD

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CONSULTANT

CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE

PROJECT NUMBER: 62910099

PROJECT MANAGER	DDA	DRAWN BY	GJB	CHECKED BY	
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**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1		ORIGINAL ISSUE

SHEET NAME

**FRAMING DETAILS & SECTIONS**

SHEET NUMBER

**S312**

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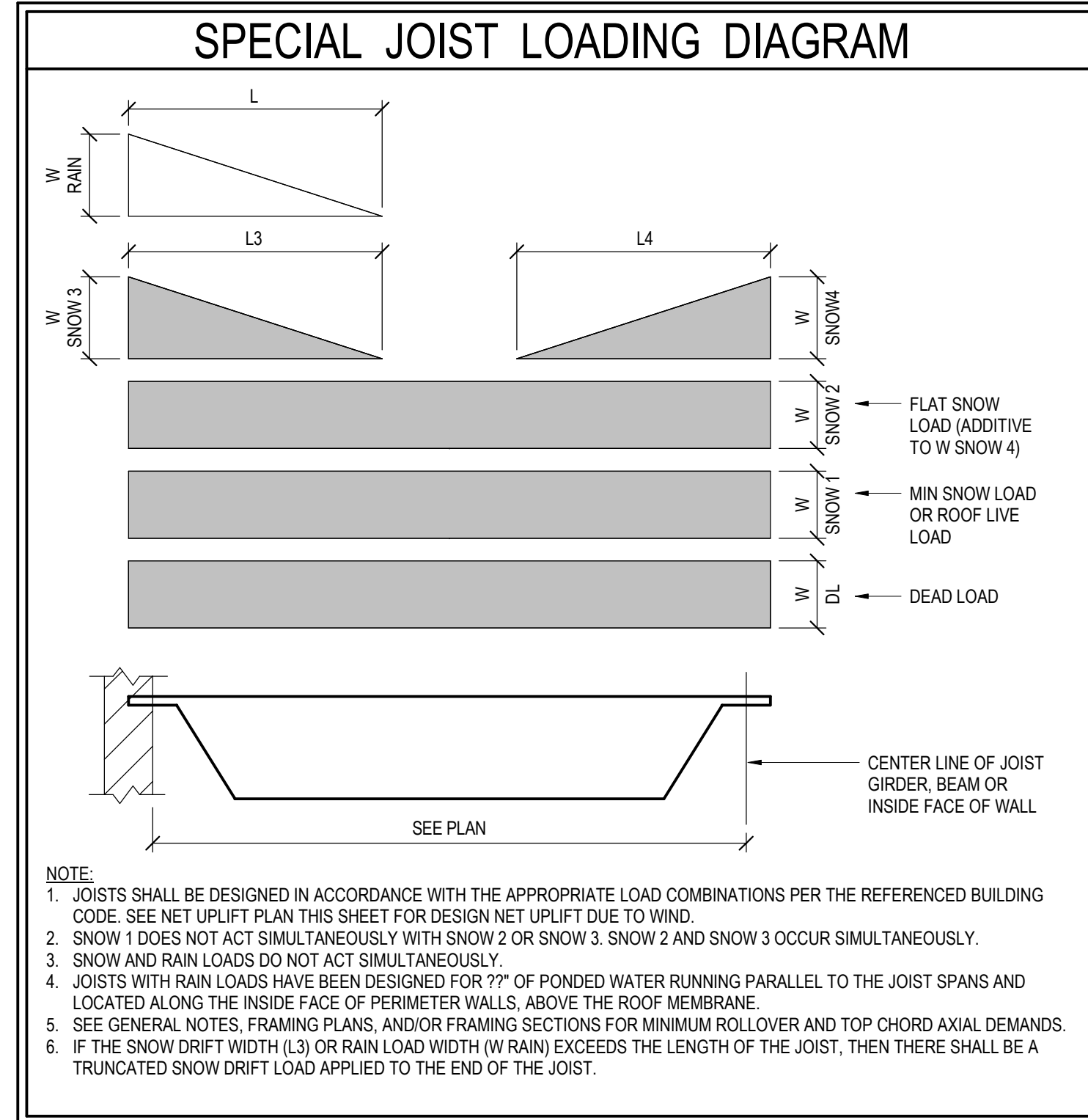
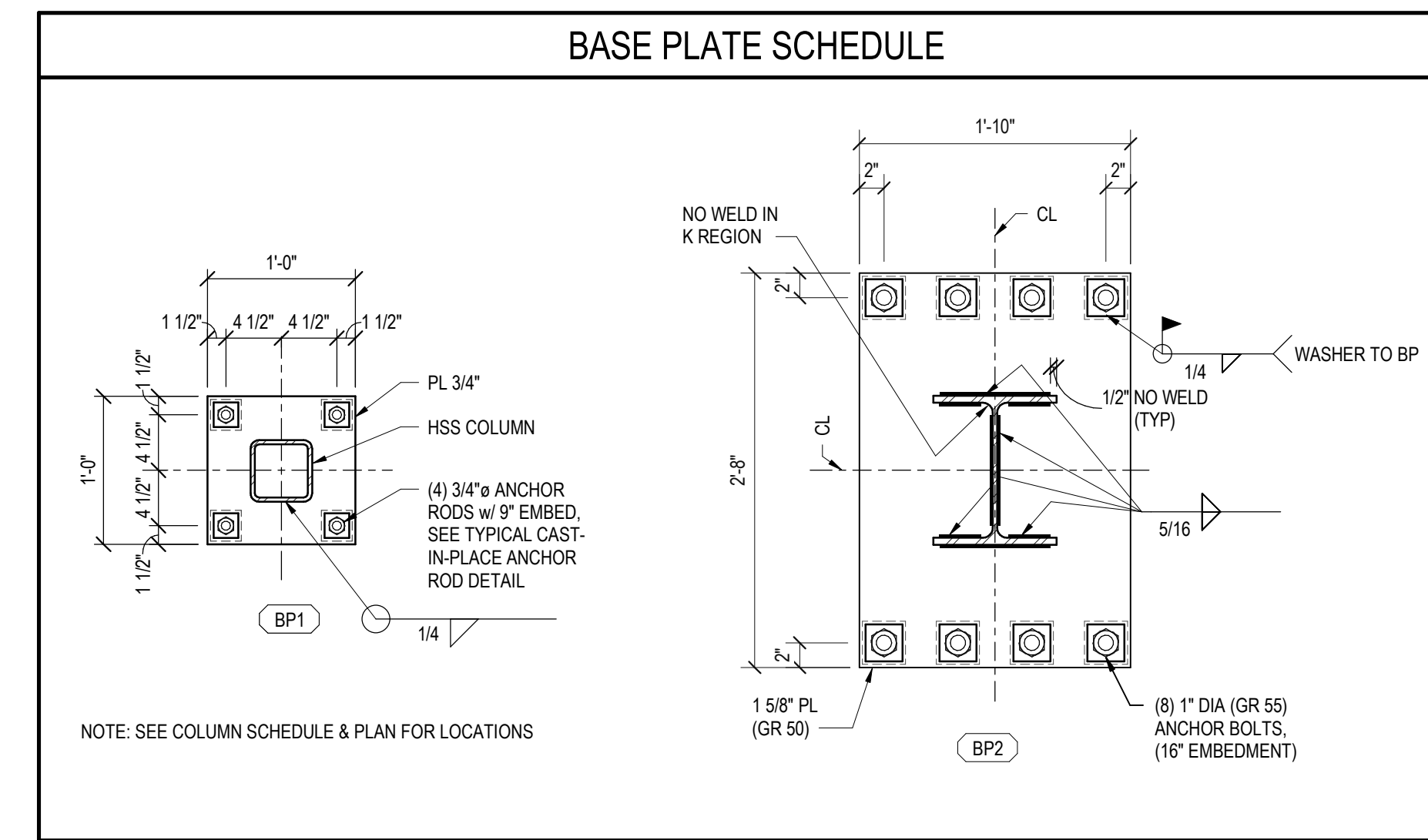
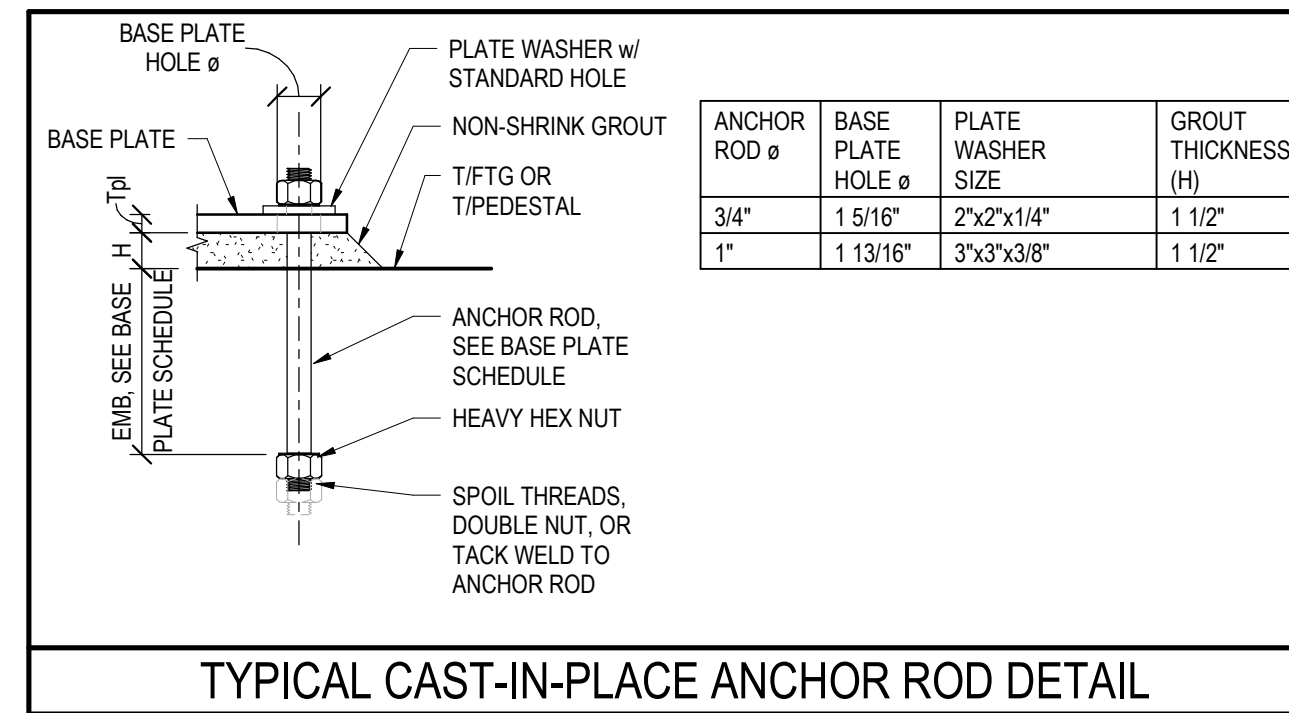
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Schematics Project Number: 24-1021



METAL DECK SCHEDULE			
MARK	SIZE/PROPERTIES	PROFILE/ATTACHMENT	FASTENERS
D-1	TYPE: 1 1/2" WIDE RIB ROOF DECK GA: Z2 GA F <sub>y</sub> (MIN): 50 KSI FINISH: GALVANIZED	<p>36" COVERAGE SHEET COVER WIDTH</p> <p>SUPPORT FASTENERS AT SHEET END LAPS, AT WALLS, &amp; AT BEAM LINES w/ AXIAL LOADS</p> <p>SUPPORT FASTENERS BETWEEN SHEET LAPS AT SUPPORTING STRUCTURE 36" PATTERN</p> <p>FASTENERS AT WALL/SLOPERS</p>	<p>SIDE LAP: MIN 1H #10 SDS CONNECTIONS PER SPAN</p> <p>SUPPORT FASTENERS: HILTI X-ENP-19 PAF OR HILTI X-HSN-24, SEE NOTE BELOW</p>

NOTE: GC TO COORDINATE DECK SUPPORT FASTENERS BASED ON SUPPORT MEMBER THICKNESS  
 SUPPORT MEMBER THICKNESS 1/8" TO 3/8" THICK: HILTI X-HSN-24  
 SUPPORT MEMBER THICKNESS > 3/4" THICK: HILTI X-ENP-19



JOIST MARK	W DL (PLF)	W SNOW 1 (PLF)	W SNOW 2 (PLF)	W SNOW 3 (PLF)	SNOW L3 (FT)	W SNOW 4 (PLF)	SNOW L4 (FT)	W RAIN (PLF)	RAIN L (FT)	I <sub>min</sub> (in <sup>4</sup> )
28KSP1	86	96	114	181	8'-6"	98	5'-0"	-	-	-
28KSP2	123	138	96	242	8'-6"	-	-	-	-	-
28KSP3	86	114	68	172	8'-6"	-	-	-	-	-
30KSP1	100	110	77	195	8'-6"	148	6'-0"	-	-	-
30KSP2	89	99	69	174	8'-6"	-	-	-	-	-
30KSP3	95	186	74	44	2'-0"	-	-	-	-	-
30KSP4	112	124	87	218	8'-6"	-	-	-	-	-
30KSP5	100	110	77	195	8'-6"	-	-	-	-	-

ARCHITECT OF RECORD



CONSULTANT

CLIENT

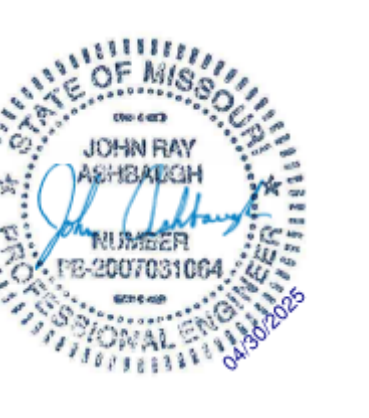
PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER: 62910099

PROJECT MANAGER: DDA  
 DRAWN BY: GJB  
 CHECKED BY:

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**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1 <td></td> <td></td>		

SHEET NAME

STEEL SCHEDULES

SHEET NUMBER

**S321**

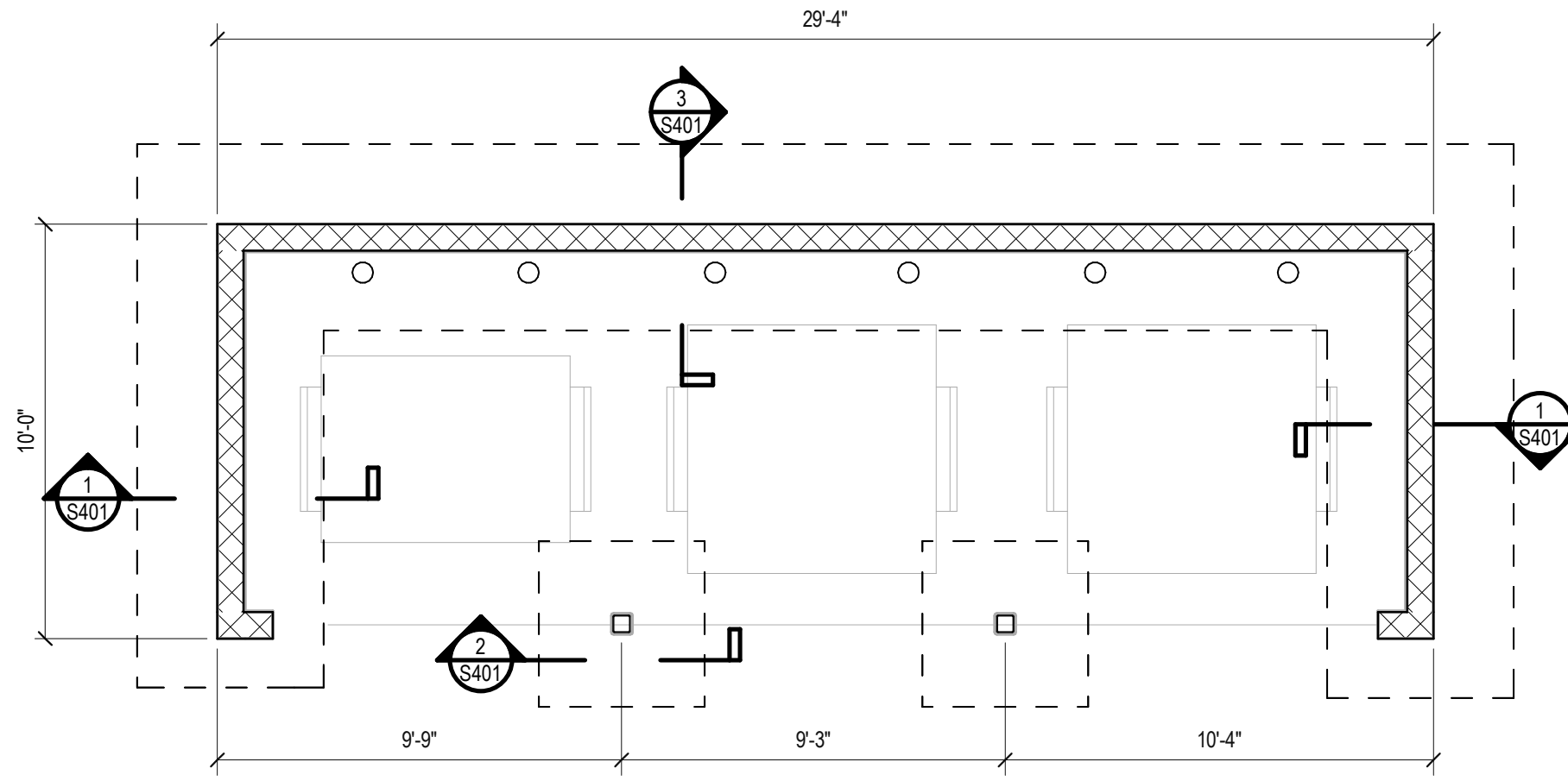
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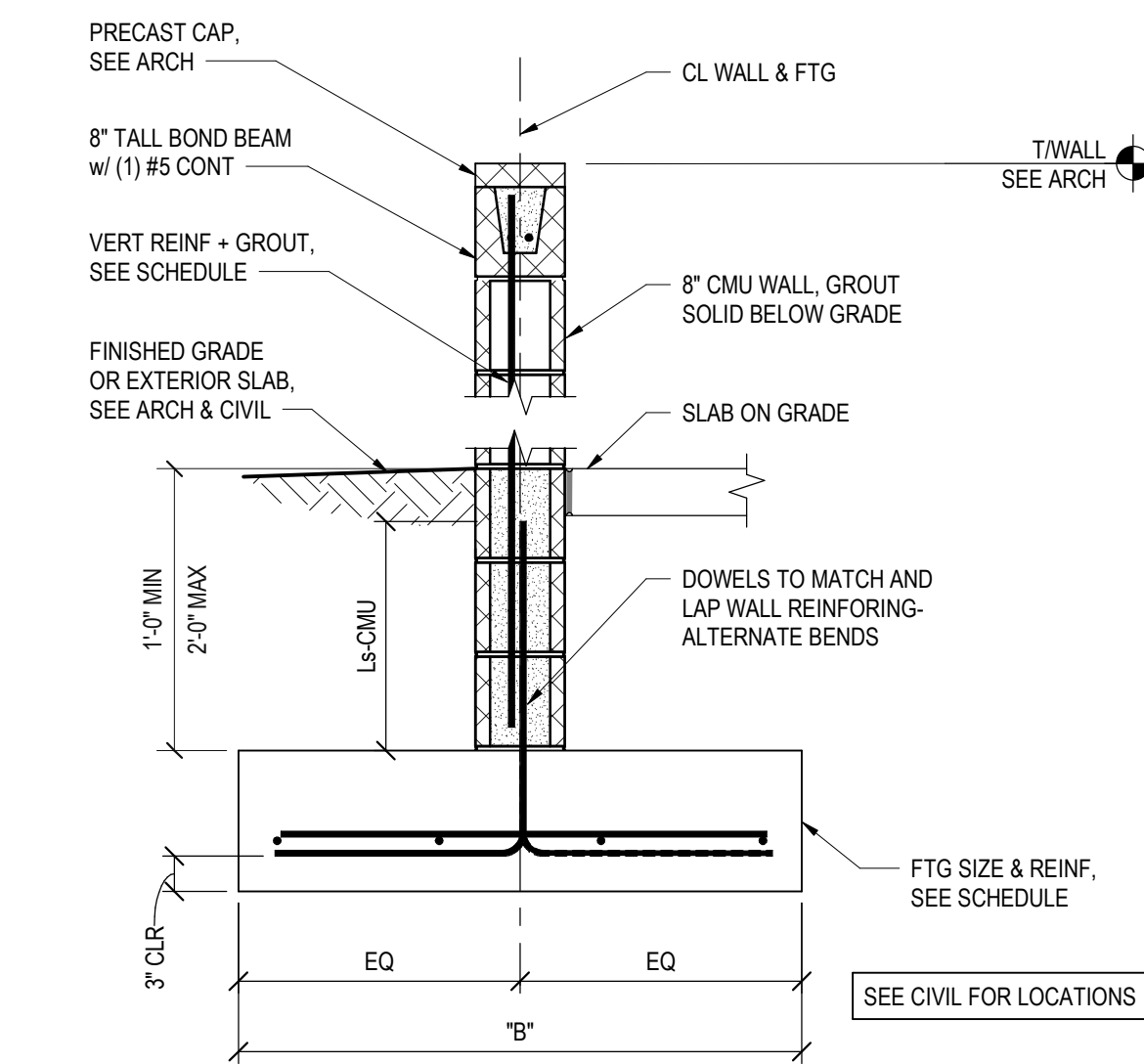
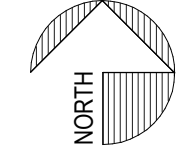
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 Structural Project Number: 241021

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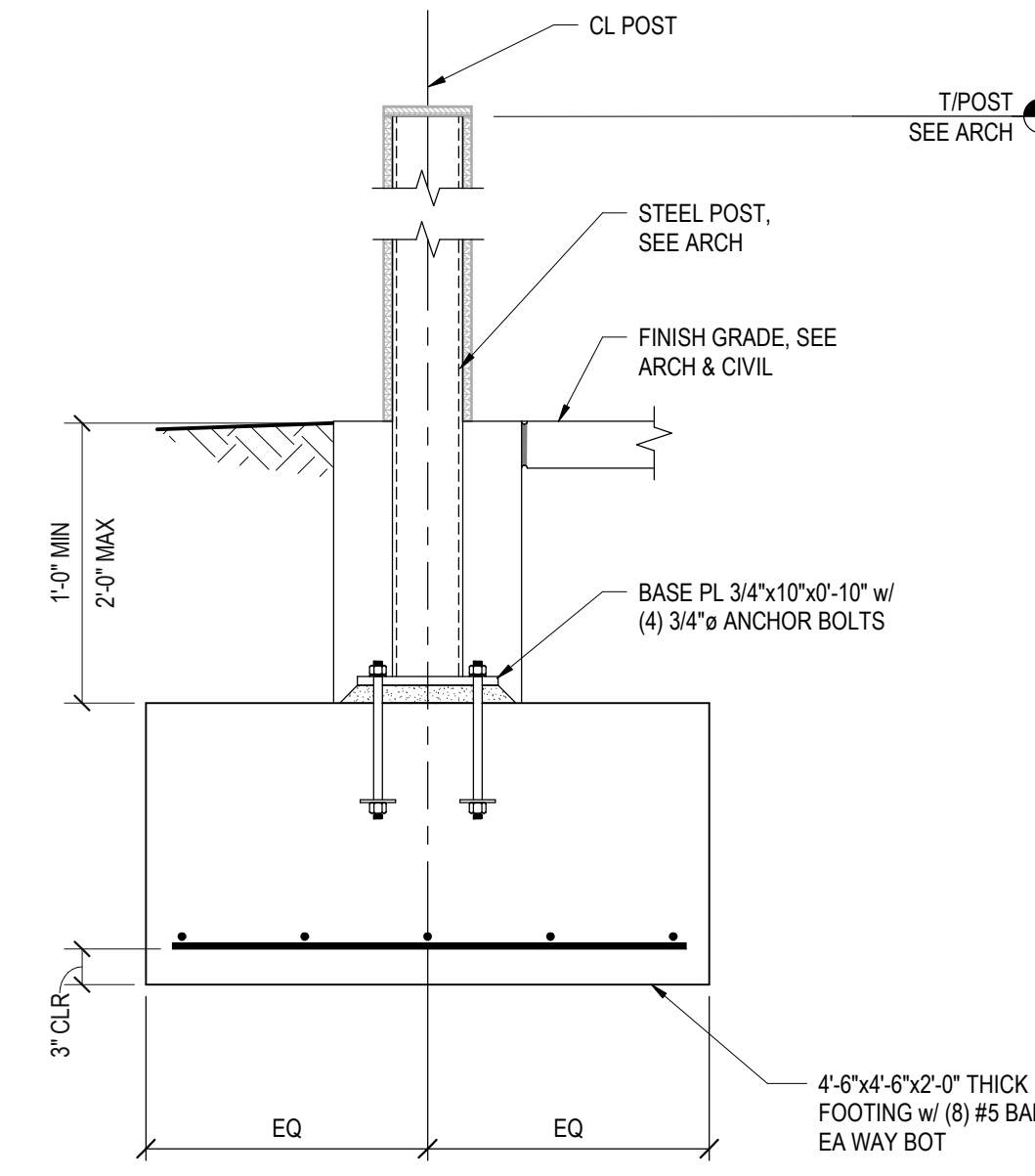
TRASH ENCLOSURE  
1/4" = 1'-0"



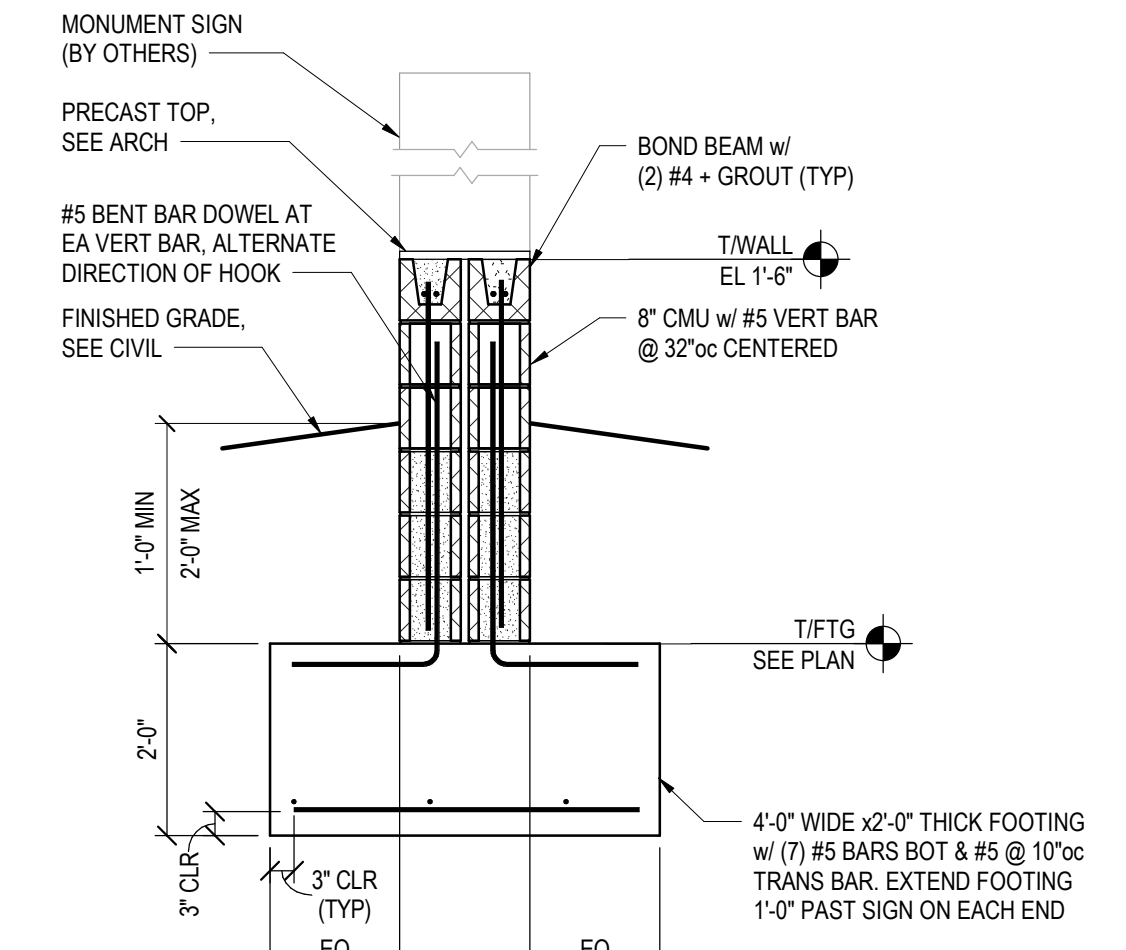
H (MAX)	WALL REINF		FOOTING SIZE & REINF	
	VERT	10' DEPTH	8' WIDTH	LONGITUDINAL REINF
8'-0"	#5 @ 48" (CENTERED)	24"	3'-6"	(4) #5 CONT AND (8) @ 12" TRANSVERSE

CONTRACTION JOINTS @ 1.5x WALL HEIGHT (20'-0" MAX)

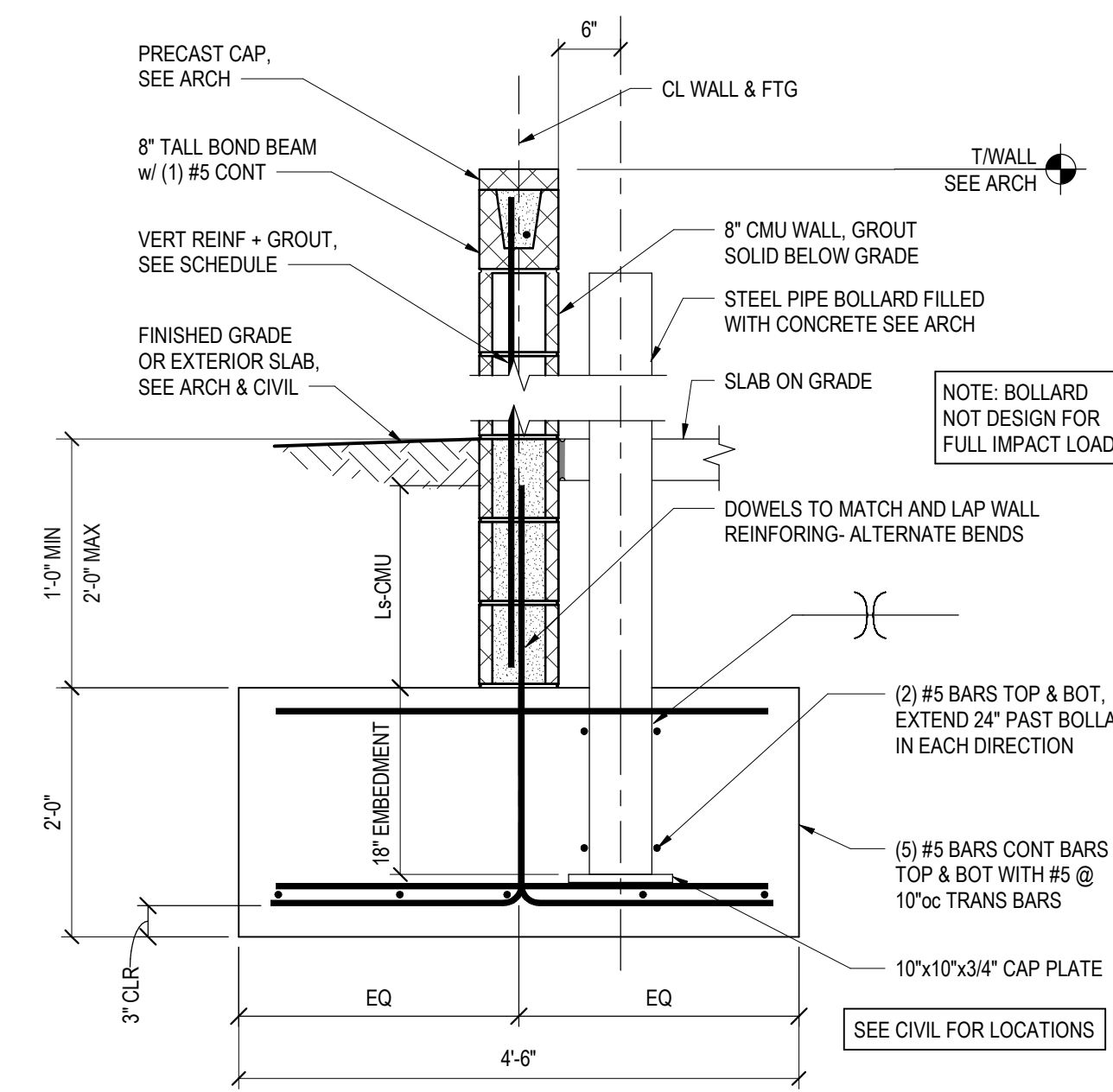
TYPICAL FREE-STANDING MASONRY WALL DETAIL 1  
3/4" = 1'-0" S401



SECTION 2  
3/4" = 1'-0" S401



MONUMENT SIGN DETAIL  
NTS



SECTION 3  
3/4" = 1'-0" S401

Q39 (SHELL)  
LEE'S SUMMIT, MO  
OLDHAM VILLAGE

PROJECT NUMBER	62910099
PROJECT MANAGER	DJA
DRAWN BY	GJB
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**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
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7 <td></td> <td></td>		
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9 <td></td> <td></td>		
10 <td></td> <td></td>		

SHEET NAME

SITE DETAILS

SHEET NUMBER

S401

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Shedule Project Number: 24-1021  
BRR ORIGINAL, PRINTED ON RECYCLED PAPER

PROJECT NUMBER	62910099		
PROJECT MANAGER	DRAWN BY	CHECKED BY	
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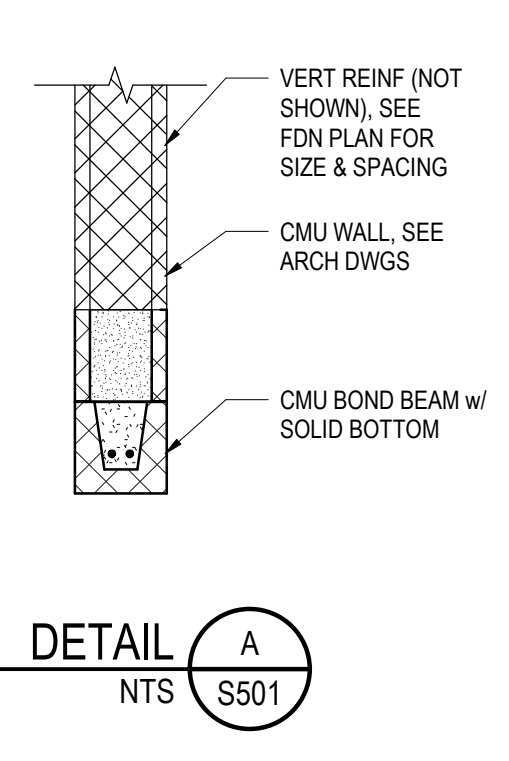
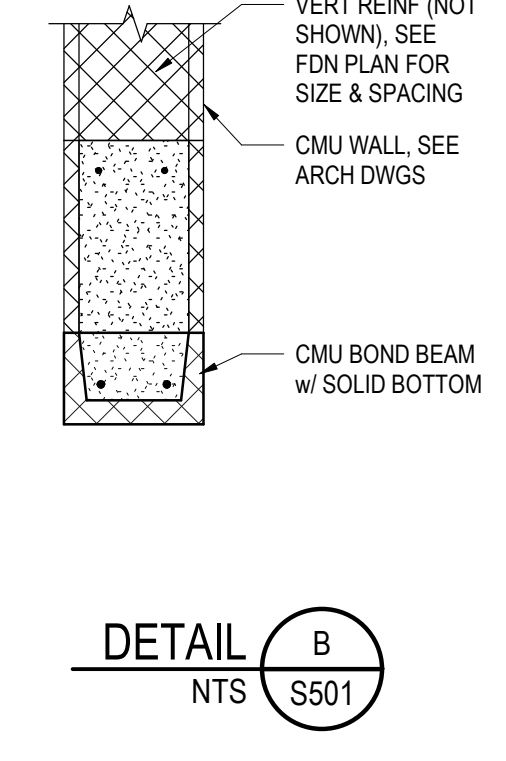
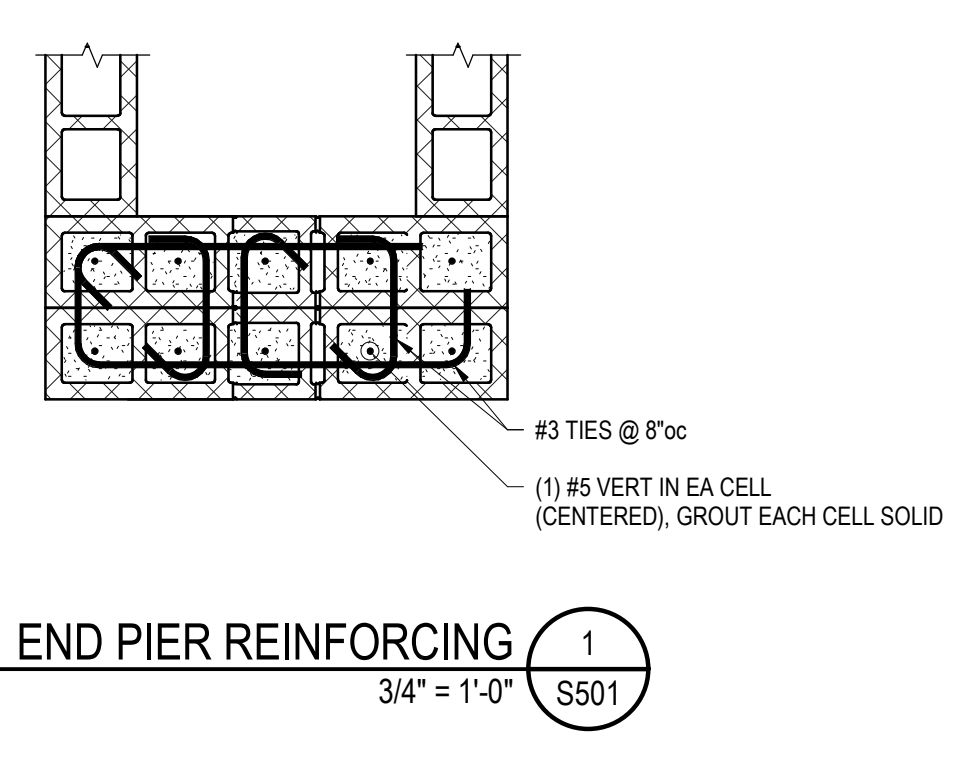
**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1		
2		
3		
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10		

SHEET NAME  
**MASONRY SCHEDULES AND DETAILS**

SHEET NUMBER

**S501**



**CMU LINTEL SCHEDULE**

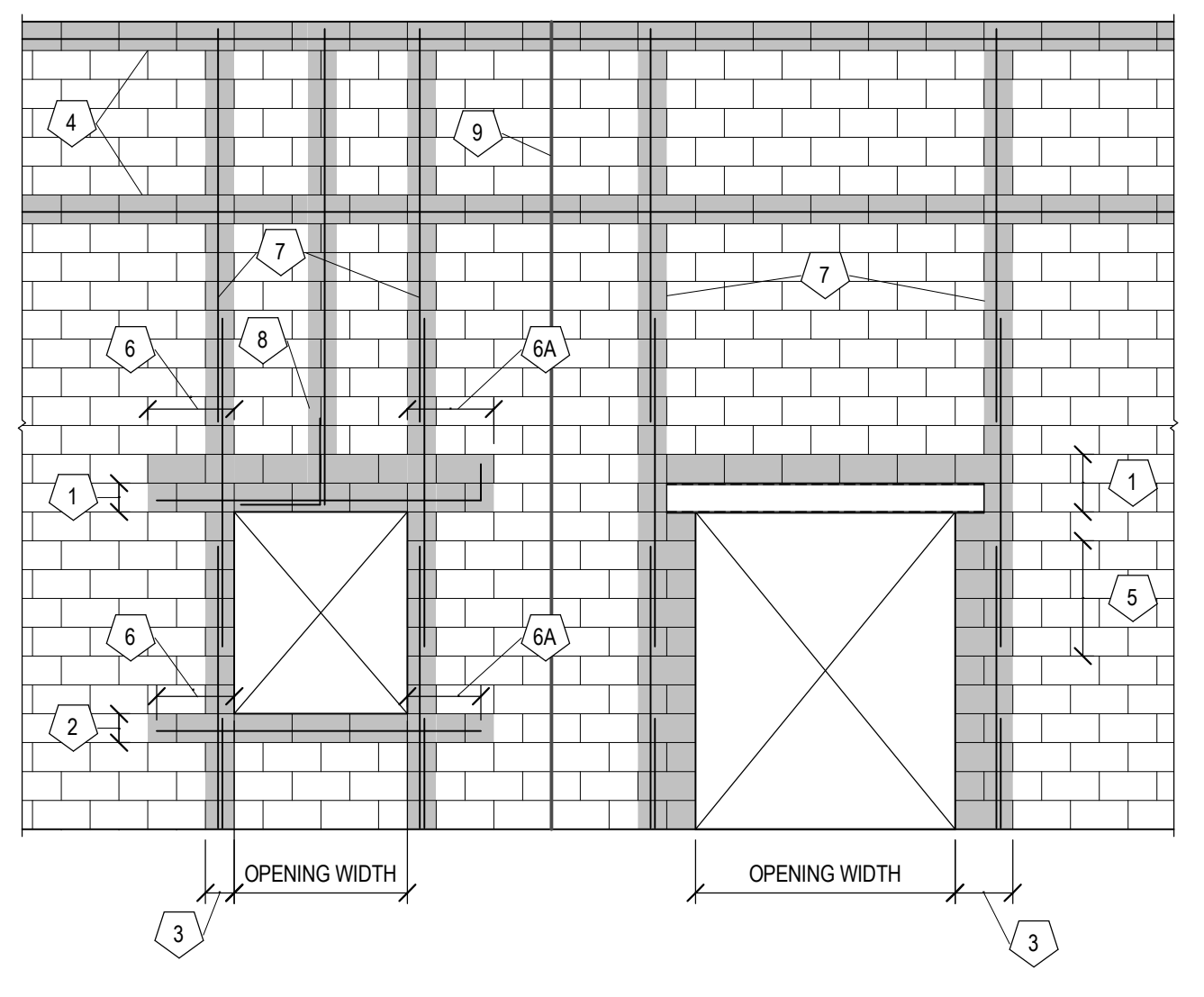
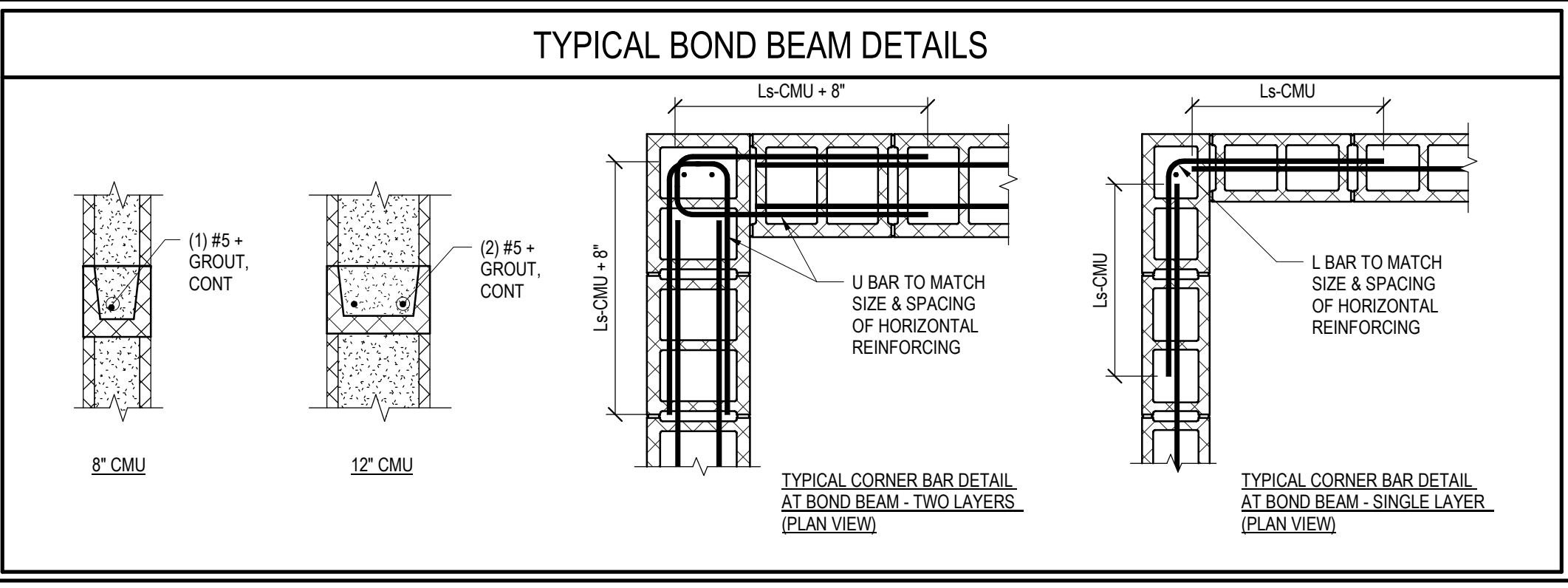
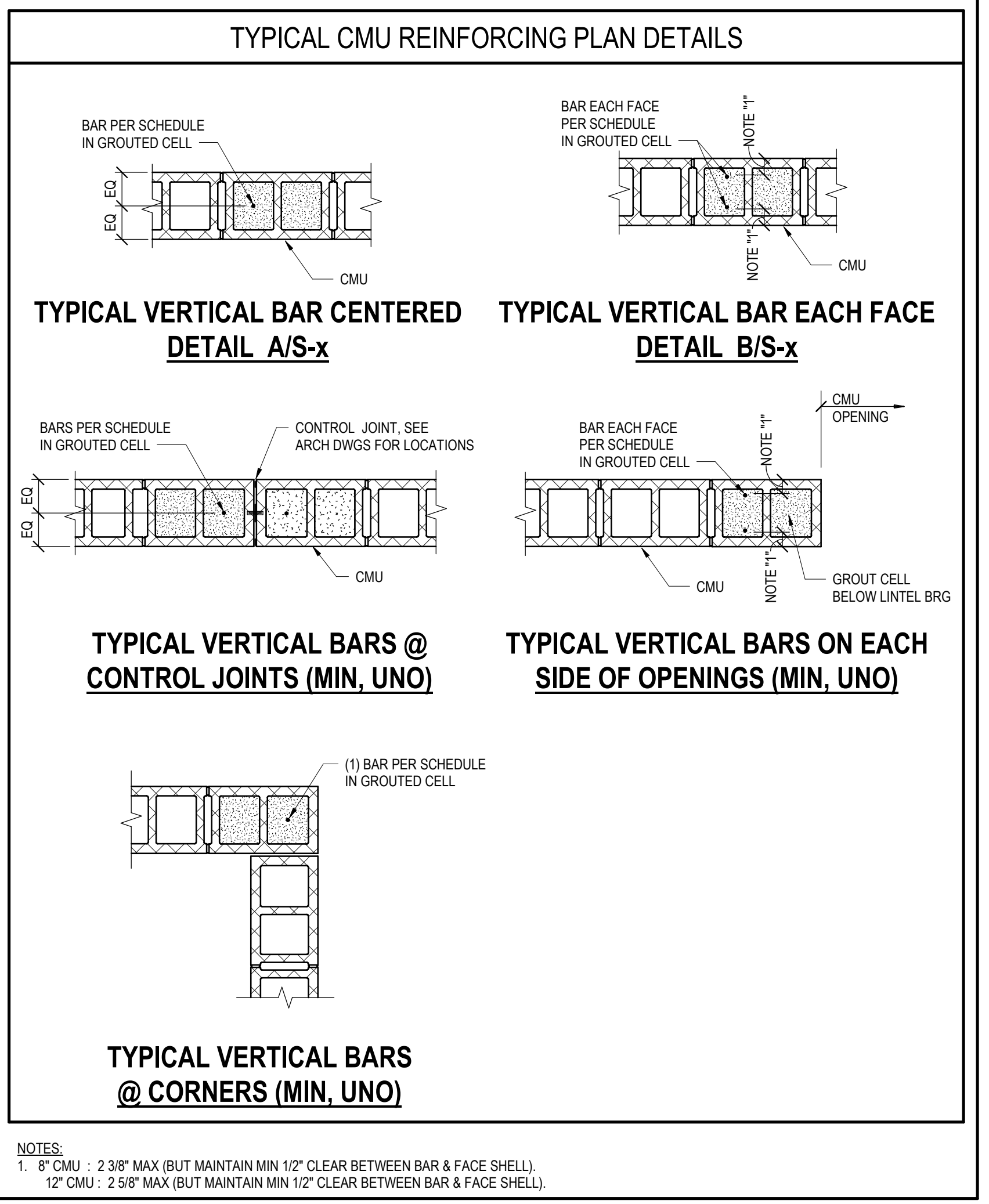
MARK	DETAIL	DESCRIPTION	REMARKS
L1	B/S501	24" DEEP BOND BEAM w/ (2) #5 BARS TOP & BOT	
L2	A/S501	18" DEEP BOND BEAM w/ (2) #5	

**NOTES:**  
 1. PROVIDE 24" BEARING EACH END OF LINTEL UNO.  
 2. CENTER LINTEL UNDER CMU UNO IN PLAN OR SECTION.

**CMU WALL REINFORCING SCHEDULE**

MARK	CMU SIZE	TYPICAL VERTICAL REINFORCING
W1	8	(1) #5 @ 48" w/ 6" DEEP HORIZ BOND BEAMS @ 48" (PROVIDE (1) #5 HORIZ BAR)
W2	8	(1) #5 @ 8" w/

**NOTES:**  
 1. "W" INDICATES VERTICAL WALL REINFORCING.  
 2. SOLID GROUT ALL CELLS CONTAINING REINFORCING.  
 3. REINFORCING TO BE PLACED IN CENTER OF GROUDED CELL UNLESS NOTED OTHERWISE.  
 4. EXTEND REINFORCING FROM PLAN LEVEL SHOWN DOWN TO LEVEL BELOW AND LAP PER SCHEDULE IN MASONRY SECTION OF GENERAL STRUCTURAL NOTES. EXTEND DOWN OR BENT BAR OUT OF CONCRETE WALL OR FOOTING TO PROVIDE LAP WITH EACH CMU VERTICAL REINFORCING BAR.  
 5. ALL WALLS NOT NOTED WITH "W" ON PLAN, USE WALL REINFORCEMENT MARK "W".



**CMU WALL KEYNOTES:**  
 1. SEE LINTEL SCHEDULE FOR LINTELS ABOVE OPENINGS. SEE PLAN FOR LINTEL MARKS.  
 2. PROVIDE (1) #5 BIL REINFORCING AT OPENINGS. SEE DETAIL CALLED OUT ON PLAN OR TYPICAL VERTICAL BARS ON EACH SIDE OF OPENINGS ON THIS DRAWING.  
 3. SEE RELATING WALL SECTIONS AND ELEVATIONS FOR BOND BEAM LOCATIONS AND REINFORCING.  
 4. SEE CMU WALL REINFORCING SCHEDULE FOR LAP SPICE LENGTH.  
 5. EXTEND HORIZONTAL REINFORCING THE GREATER OF 24 INCHES OR 40 BAR DIAMETERS BEYOND FACE OF OPENING.  
 6. WHERE BARS ARE UNABLE TO EXTEND FULL LENGTH, TERMINATE BARS WITH STANDARD HOOK.  
 7. AT OPENINGS IN EXTERIOR WALLS, EXTEND VERTICAL REINFORCING TO TOP OF WALL. AT OPENINGS IN INTERIOR WALLS, EXTEND VERTICAL REINFORCING BEYOND FLOOR ABOVE EQUAL TO VERTICAL SPICE LENGTH OR TO TOP OF WALL.  
 8. TYPICAL WALL REINFORCING ABOVE OPENINGS HAVE CORNER BARS (3) OR (4) EACH LAPPED AND TIED WITH HORIZONTAL LINTEL REINFORCING.  
 9. SEE FOUNDATION PLANS FOR CONTROL JOINT LOCATIONS AND TYPICAL VERTICAL BARS @ CONTROL JOINTS' DETAIL ON THIS DRAWING.

**TYPICAL WALL NOTES:**  
 1. TYPICAL WALL REINFORCING NOT SHOWN FOR CLARITY. SEE PLAN FOR MARKS AND SCHEDULE FOR TYPICAL GROUT, REINFORCING SIZE AND SPACING.



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**FLOOR PLAN NOTES**

- M03 PROVIDE TEMPORARY THERMOSTAT FOR UNIT STARTUP. HANG THERMOSTAT IN SPACE AT 4' ABOVE FINISHED FLOOR. PROVIDE WITH 10' LONG COIL OF CONTROL WIRE FOR FUTURE PERMANENT THERMOSTAT INSTALLATION.
- M04 PROVIDE UNIT HEATER. MOUNT TO WALL AT 8'-0" ABOVE FINISHED FLOOR.
- M05 PROVIDE GAS FIRED RADIANT HEATER. SUSPEND FROM CEILING ABOVE USING BRACKETS. FURNISH WITH HEATER MOUNT WITH HEAT SHIELD 18" BELOW CEILING. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES TO COMBUSTIBLES.
- M06 EXTEND DUCTS FROM ROOFTOP UNIT ABOVE. FULL SIZE OF UNIT CONNECTION. DOWN 18" BELOW ROOF DECK AND TERMINATE OPEN.
- M07 INSTALL MASTER CONTROLLER AND SWITCH FURNISHED WITH RADIANT HEATERS. MOUNT SWITCH AT 4' ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH OWNER.

ARCHITECT OF RECORD

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 Fax: 816.221.1420  
 E: J.F. or Project No. 27767400

CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER	62910099
PROJECT MANAGER	AVM
DRAWN BY	EDG
CHECKED BY	



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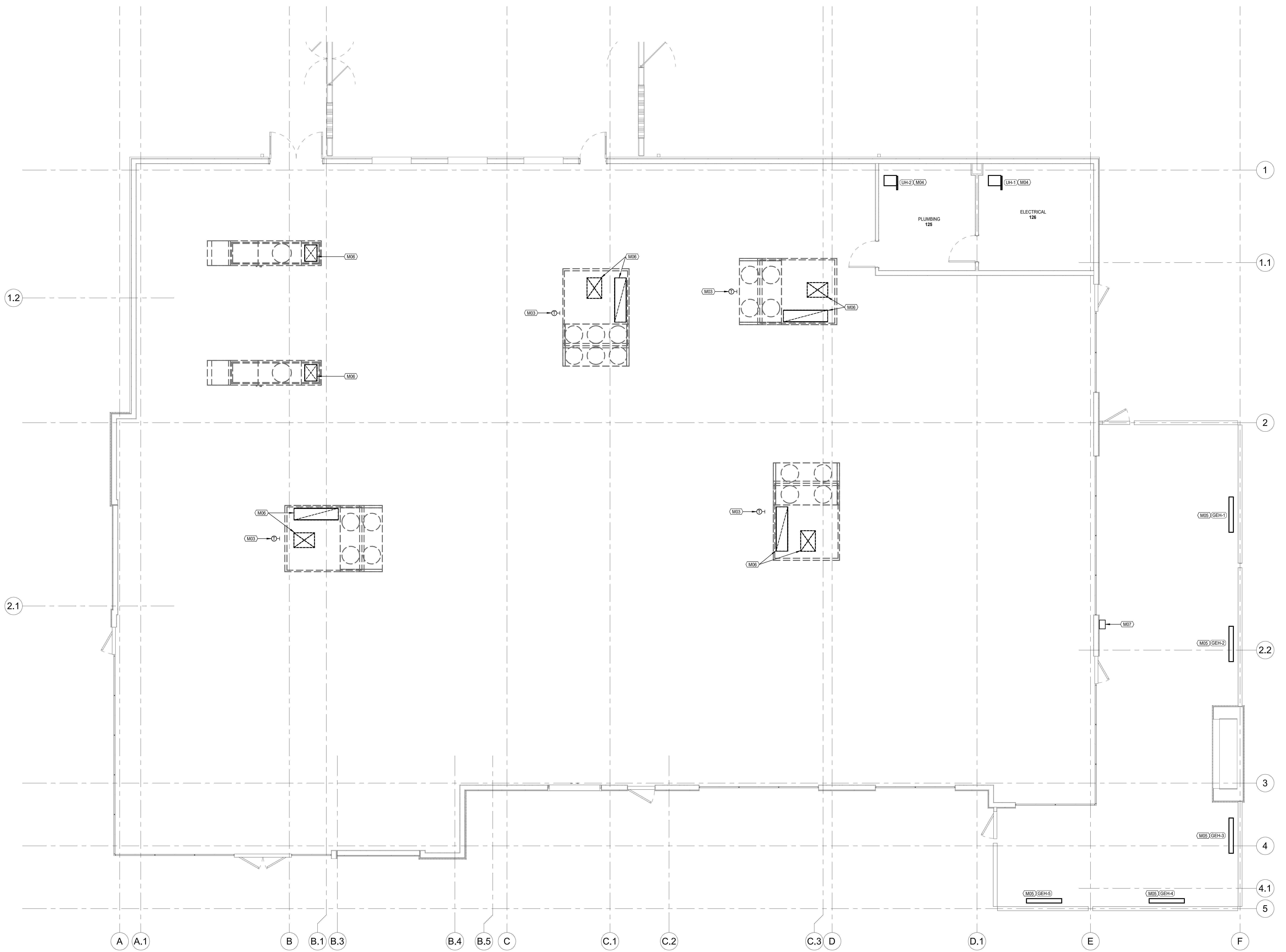
**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1		
2		
3		
4		
5		

**FLOOR PLAN - MECHANICAL**

SHEET NUMBER

**M100**



**FLOOR PLAN - MECHANICAL**  
 SCALE: 1/4" = 1'-0"

4/30/2025 4:23:31 PM

**FLOOR PLAN NOTES**

- M01 PROVIDE ROOFTOP UNIT AND ROOF CURB. INSTALL UNIT ON CURB PER THE MANUFACTURER'S REQUIREMENTS. PROVIDE FLEXIBLE DUCT CONNECTIONS AND CONDENSATE TRAP PER DETAIL.
- M02 PROVIDE MAKE-UP AIR UNIT AND ROOF CURB. INSTALL UNIT ON CURB PER THE MANUFACTURER'S REQUIREMENTS. PROVIDE FLEXIBLE DUCT CONNECTIONS AND CONDENSATE TRAP PER DETAIL.

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 OVERLAND PARK, KS 66214  
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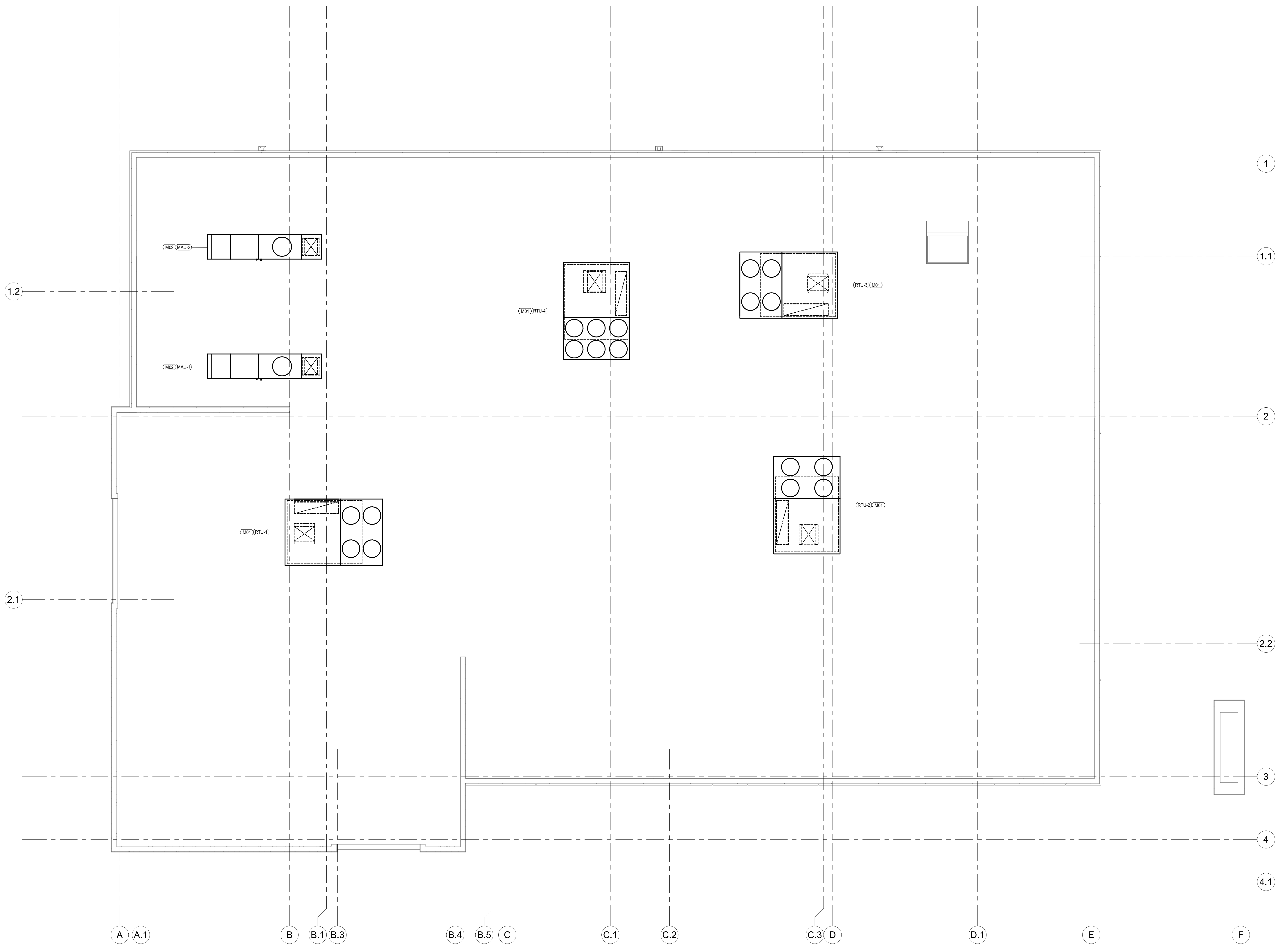
CONSULTANT

**Lankford + Fendler**  
 + associates  
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 Kansas City, Missouri 64108  
 816-221-1411  
 Fax: 816-221-1420  
 L.F. is a Project No. 27767440

CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE



PROJECT NUMBER	62910099		
PROJECT MANAGER	DRAWN BY	CHECKED BY	
AVM	EDG		
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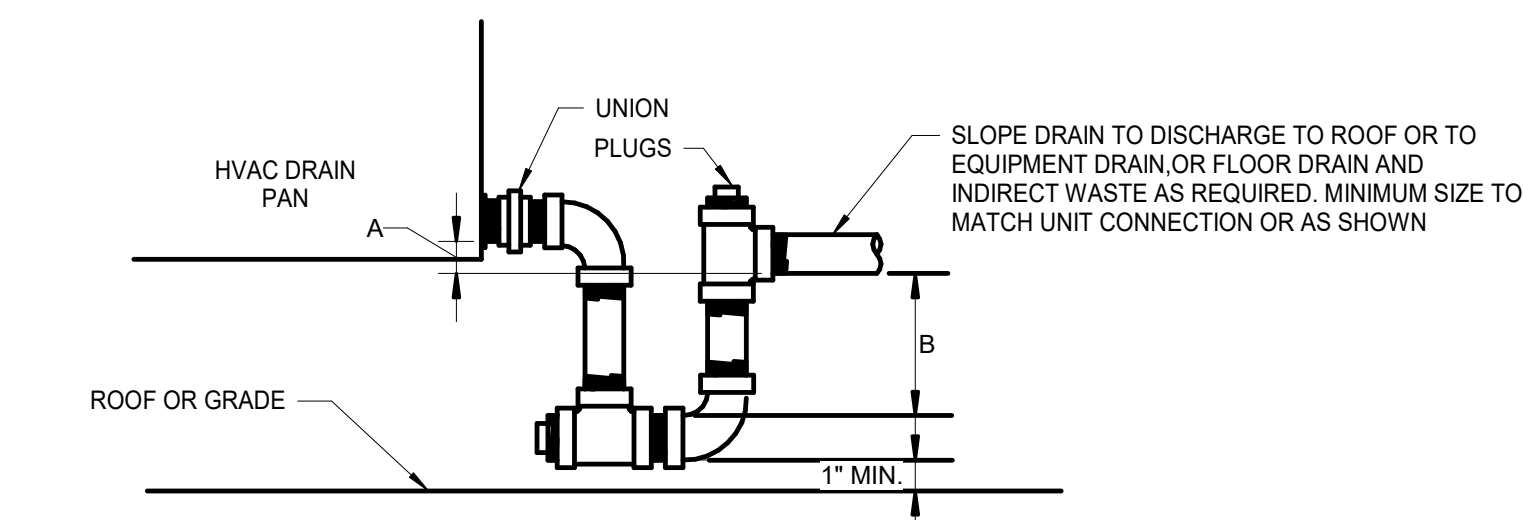
NUMBER	DATE	ISSUE	ORIGINAL	ISSUE	DESCRIPTION

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**ROOF PLAN - MECHANICAL**  
**SHEET NUMBER**

**M200**

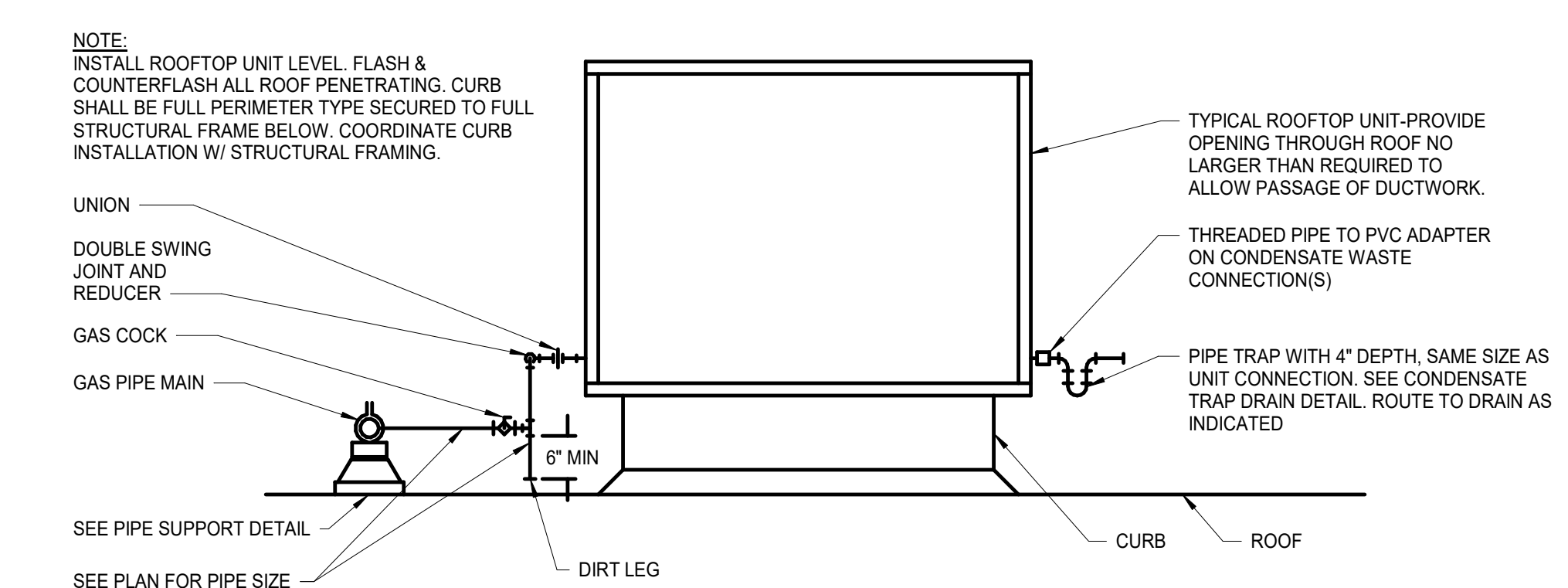
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**ROOF PLAN - MECHANICAL**  
 SCALE: 1/4" = 1'-0"

4/30/2025 4:22:44 PM

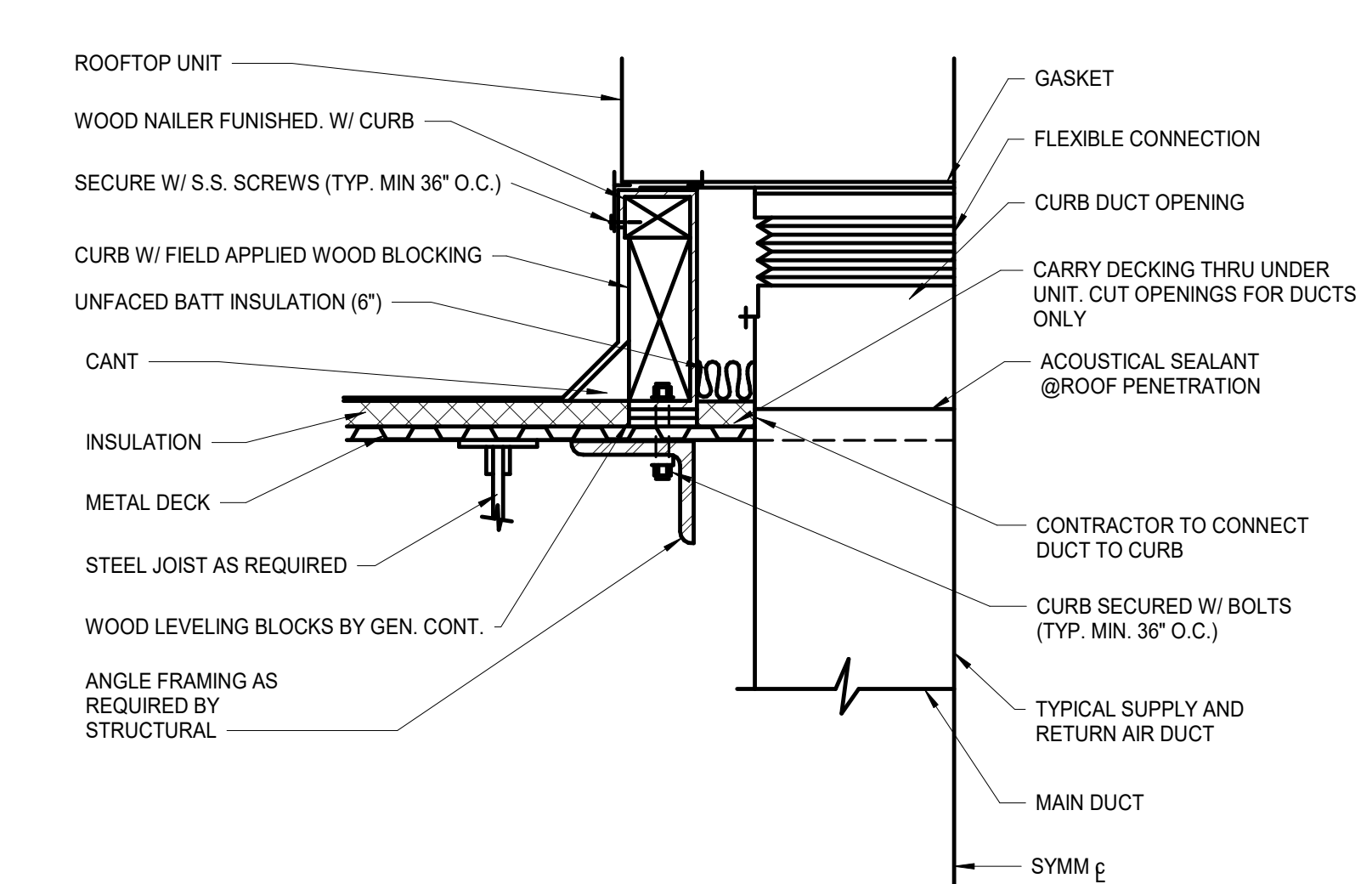


	DM "A"	DM "B"
BLOW THRU COIL	1"	FAN DISCHARGE STATIC PRESSURE + 1"
DRAW THRU COIL	FAN SUCTION STATIC PRESSURE + 1"	2 1/2"

**DRAINABLE HVAC CONDENSATE TRAP DETAIL**  
NOT TO SCALE



**ROOFTOP UNIT CONNECTIONS DETAIL**  
NOT TO SCALE



**ROOF TOP UNIT CURB AND DUCT DETAIL**  
NOT TO SCALE

- GENERAL NOTES (TYPICAL ALL SHEETS)**
- MECHANICAL CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
  - CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR BUILDING OWNER REQUIREMENTS.
  - COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
  - MECHANICAL CONTRACTOR SHALL PROVIDE NEW FILTERS ON ALL AIR HANDLING EQUIPMENT PRIOR TO BALANCING. PROVIDE TEMPORARY FILTERS ON RETURN AIR OPENINGS DURING CONSTRUCTION.
  - INSTALL ELASTOMERIC JOINT SEALER AROUND ALL DUCTS, PIPES, ETC. PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL DUCTS, PIPES, ETC. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
  - UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
  - ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 2550 FLAME AND SMOKE RATED, HELLERMAN-TYTON T50RC20L OR EQUIVALENT.
  - THERMOSTAT COVERS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED. THERMOSTAT SENSORS SHALL BE INSTALLED AND CALIBRATED PRIOR TO TEST AND BALANCE.

**FIRE STOPPING REQUIREMENTS**  
CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

**MECHANICAL SYMBOLS**

- NEW DUCTWORK
- SUPPLY DUCT
- RETURN DUCT
- SUPPLY DIFFUSER
- RETURN GRILLE
- SUPPLY DUCT DOWN
- SUPPLY DUCT UP
- RETURN DUCT DOWN
- RETURN DUCT UP
- THERMOSTAT
- EQUIPMENT TYPE AND DESIGNATION
- TYPE MARK (S, R, J, E, etc.) SUPPLY, (R, J) RETURN, (E, etc.) EXHAUST
- DIFFUSER OR GRILLE TYPE MARK AND CFM
- CONNECT TO EXISTING

ARCHITECT OF RECORD

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CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE

PROJECT NUMBER	62910099
PROJECT MANAGER	AVM
DRAWN BY	EDG
CHECKED BY	



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**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1 <td></td> <td></td>		
2 <td></td> <td></td>		
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10 <td></td> <td></td>		

SHEET NAME

**MECHANICAL  
DETAILS, GEN.  
NOTES, & SYMBOLS**

SHEET NUMBER

**M300**







PART 3 - EXECUTION

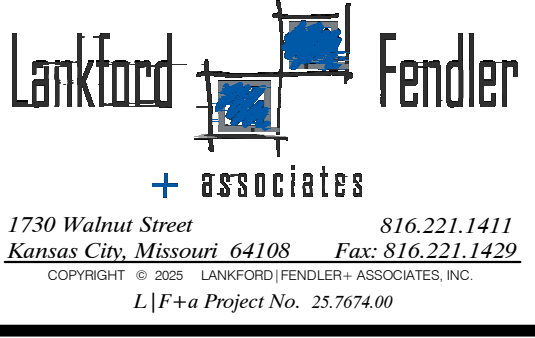
- 3.1 POWER SYSTEM DATA
  - A. Obtain all data necessary for conduct of the study.
  - B. Gather and tabulate the required input data to support the study. Record data on a Record Document copy of one-line diagrams. Comply with recommendations in IEEE 551 as to the amount of detail that is required to be acquired in the field. Field data gathering shall be under direct supervision and control of the engineer in charge of performing the study and shall be by the engineer or its representative who holds NETA ETT-Certified Technician Level II or NICET Electrical Power Testing Level III certification.
- 3.2 SHORT-CIRCUIT STUDY
  - A. Perform study following the general study procedures contained in IEEE 399.
  - B. Calculate short-circuit currents according to IEEE 551.
  - C. Base study on device characteristics supplied by device manufacturer.
  - D. Extent of electrical power system to be studied is indicated on Drawings.
  - E. Begin short-circuit current analysis at the service, extending down to system overcurrent protective devices to where fault current is 10 kA or less.
  - F. Study electrical distribution system from normal and alternate power sources throughout electrical distribution system for Project. Study all cases of system-switching configurations and alternate operations that could result in maximum fault conditions.
  - G. Include the ac fault-current decay from induction motors, synchronous motors, and asynchronous generators and apply to low- and medium-voltage, three-phase ac systems. Also account for the fault-current dc decrement to address asymmetrical requirements of interrupting equipment.
  - H. Calculate short-circuit momentary and interrupting duties for a three-phase bolted fault and a single line-to-ground fault at each equipment indicated on one-line diagram.
  - I. Include in the report identification of any protective device applied outside its capacity.
- 3.3 COORDINATION STUDY
  - A. Comply with IEEE 242 for calculating short-circuit currents and determining coordination time intervals.
  - B. Comply with IEEE 399 for general study procedures.
  - C. Base study on device characteristics supplied by device manufacturer.
  - D. Extent of electrical power system to be studied is indicated on Drawings.
  - E. Begin analysis at the service, extending down to system overcurrent protective devices where fault current is 10 kA or less.
  - F. Study electrical distribution system from normal and alternate power sources throughout electrical distribution system for Project. Study all cases of system-switching configurations and alternate operations that could result in maximum fault conditions.
  - G. Transformer Primary Overcurrent Protective Devices:
  - H. Motor Protection: Select protection for low-voltage motors according to IEEE 242 and NFPA 70.
  - I. Conductor Protection: Protect cables against damage from fault currents according to IEEE P-33-382, IEEE P-45-482, and protection recommendations in IEEE 242. Demonstrate that equipment withstands the maximum short-circuit current for a time equivalent to the tripping time of the primary relay protection or total clearing time of the fuse. To determine temperatures that damage insulation, use curves from cable manufacturers or from listed standards indicating conductor size and short-circuit current.
  - J. Generator Protection: Select protection according to manufacturer's written instructions and to IEEE 242.
  - K. Include the ac fault-current decay from induction motors, synchronous motors, and asynchronous generators and apply to low- and medium-voltage, three-phase ac systems. Also account for fault-current dc decrement, to address asymmetrical requirements of interrupting equipment.
  - L. Calculate short-circuit momentary and interrupting duties for a three-phase bolted fault and a single line-to-ground fault at each equipment indicated on one-line diagram.
  - M. Protective Device Evaluation: Evaluate equipment and protective devices and compare to short-circuit settings; Adequacy of equipment bus bars to withstand short-circuit stresses. Any application of series-rated devices shall be justified, complying with requirements in NFPA 70; Include in the report identification of any protective device applied outside its capacity.
- 3.4 ARC FLASH HAZARD ANALYSIS
  - A. Comply with NFPA 70E and its Annex D for hazard analysis study.
  - B. Preparatory Studies: Perform the Short-Circuit and Protective Device Coordination studies prior to starting the Arc-Flash Hazard Analysis.
  - C. Calculate maximum and minimum contributions of fault-current size.
  - D. Calculate the arc-flash protection boundary and incident energy at locations in electrical distribution system where personnel could perform work on energized parts.
  - E. Calculate the limited, restricted, and prohibited approach boundaries for each location.
  - F. Incident energy calculations shall consider the accumulation of energy over time when performing arc-flash calculations on buses with multiple sources. Iterative calculations shall take into account the changing current contributions, as the sources are interrupted or decremented with time.
  - G. Arc-flash energy shall generally be reported for the maximum line or load side of a circuit breaker.
  - H. Base arc-flash calculations on actual overcurrent protective device clearing time. Cap maximum clearing time at two seconds based on IEEE 1584, Section B.1.2.
- 3.5 FIELD ADJUSTING
  - A. Adjust relay and protective device settings according to recommended settings provided by the coordination study.
  - B. Make minor modifications to equipment as required to accomplish compliance with short-circuit and protective device coordination studies.
  - C. Testing and adjusting shall be by a full-time employee of the Field Adjusting Agency, who holds NETA ETT-Certified Technician Level II or NICET Electrical Power Testing Level III certification. Perform each visual and mechanical inspection and electrical test stated in NETA ATS. Certify compliance with test parameters. Perform NETA tests and inspections for all adjustable overcurrent protective devices.
- 3.6 ARC FLASH LABELING
  - A. Apply arc-flash label on the front cover and on side or rear covers with accessible live parts and hinged doors or removable plates for each equipment included in the study. Base arc-flash label data on highest values calculated at each location.
  - B. Each piece of equipment listed below shall have an arc-flash label applied to it: Motor-control center; Low-voltage switchboards; Switchgear; Low voltage transformers; Panelboards; Safety switches; Control panel; Automatic Transfer Switch; Generator.
  - C. Note on record Drawings the location of equipment where the personnel could be exposed to arc-flash hazard during their work. Indicate arc-flash energy. Indicate protection level required.
- 3.7 APPLICATION OF WARNING LABELS
  - A. Install arc-flash warning labels under the direct supervision and control of Power System Analysis Specialist.
- 3.8 DEMONSTRATION
  - A. Engage Power Systems Analysis Specialist to train Owner's maintenance personnel.
  - B. Acquaint personnel in fundamentals of operating the power system in normal and emergency modes.
  - C. Hand-out and explain the coordination study objectives, study descriptions, purpose, basis, and scope. Include case descriptions, definition of terms, and guide for interpreting time-current coordination curves.
  - D. For Owner's maintenance staff certified as NETA ETT-Certified Technicians Level II or NICET Electrical Power Testing Level III Technicians, teach how to adjust, operate, and maintain overcurrent protective device settings.
  - E. Inform of the potential arc-flash hazards associated with working on energized equipment and the significance of arc-flash warning labels.

END OF SECTION

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CLIENT

PROJECT TITLE

Q39 (SHELL)  
 LEE'S SUMMIT, MO  
 OLDHAM VILLAGE

PROJECT NUMBER	62910099
PROJECT MANAGER	AVM
DRAWN BY	EDG
CHECKED BY	

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ISSUES AND REVISIONS

NUMBER	DATE	DESCRIPTION
1	ISSUE	ORIGINAL ISSUE

SHEET NAME

SPECIFICATIONS

SHEET NUMBER

MEP102

## ROOFTOP UNIT SCHEDULE

MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	MIN O.A. CFM	EXT. S.P. (IN W.G.)	FAN HP	FAN DRIVE TYPE	RPM	COOLING							HEATING-GAS			ELECTRICAL												
									AMB. (°F)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TOTAL MBH	SENS. MBH	STAGES	EER OR SEER	INPUT MBH	OUTPUT MBH	STAGES	NOTES	VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
RTU-1	LENNOX	LGM180LSM	6000	1800	0.8	5	BELT	868	95	80	67	58.2	56.9	161.8	132.7	3	12 EER	360	292	2	1-8	480	3	60	35.8	37	40	INTEGRAL	HDP	3/4" C. (4) #8, (1) #10 G.	-
RTU-2	LENNOX	LGM156USM	5000	1500	0.8	3	BELT	786	95	80	67	57	56.3	159.9	116.8	3	12 EER	260	211	2	1-8	480	3	60	30.7	31	35	INTEGRAL	HDP	3/4" C. (4) #8, (1) #10 G.	-
RTU-3	LENNOX	LGM156USM	5000	1500	0.8	3	BELT	786	95	80	67	57	56.3	159.9	116.8	3	12 EER	260	211	2	1-8	480	3	60	30.7	31	35	INTEGRAL	HDP	3/4" C. (4) #8, (1) #10 G.	-
RTU-4	LENNOX	LGM240USM	8000	2400	0.8	7.5	BELT	1015	95	80	67	57.9	56.6	249	179.3	4	12 EER	360	292	2	1-8	480	3	60	47.9	50	60	INTEGRAL	HDP	3/4" C. (4) #8, (1) #10 G.	-

NOTES: 1. PROVIDE WITH WALL MOUNTED 24/7 PROGRAMMABLE THERMOSTAT WITH HUMIDITY CONTROL AND REMOTE TEMPERATURE/HUMIDITY SENSOR, COTTONWOOD FILTERS SUCH AS AIR SOLUTION COMPANY MEDIUM DUTY COMMERCIAL GRADE FILTERS, RINGED ACCESS PANELS, DISCONNECT SWITCH, CONDENSATE DRAIN TRAP, AND DRAIN PAN OVERFLOW SWITCH TO SHUT DOWN UNIT IF DRAIN BECOMES CLOGGED.  
2. PROVIDE WITH HOT GAS REHEAT.  
3. PROVIDE WITH ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL. INCLUDE WITH BAROMETRIC RELIEF DAMPER UNLESS NOT REQUIRED FOR UNITS EQUIPPED WITH POWERED EXHAUST.  
4. PROVIDE WITH POWERED EXHAUST.  
5. PROVIDE WITH MULTI-SPEED SUPPLY FAN TO VARY FAN SPEED WITH COMPRESSOR STAGING ON UNITS WITH 2 STAGES OF COOLING. ADJUST OUTSIDE AIR DAMPER MINIMUM POSITION FOR HIGH AND LOW FAN SPEEDS.  
6. PROVIDE WITH UNIT MOUNTED GFCI OUTLET WITH WEATHERPROOF COVER. OUTLET TO BE FIELD POWERED/WIRED FROM BUILDING POWER.  
7. PROVIDE WITH ROOF CURB OF HEIGHT REQUIRED TO HAVE THE TOP OF THE CURB A MINIMUM OF 8" ABOVE THE TOP OF THE ROOF SURFACE, OR MINIMUM CURB HEIGHT OF 18", WHICHEVER IS GREATER.  
8. UNIT TO BE CONFIGURED FOR DOWNFLOW DISCHARGE.

NOTES: A.

## MAKE-UP AIR SUPPLY PACKAGE SCHEDULE

MARK NO.	MANUFACTURER	MODEL	AIRFLOW CFM	EXT. S.P. (IN W.G.)	FAN HP	RPM	COOLING							HEATING-GAS			ELECTRICAL											
							AMB. (°F)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TOTAL MBH	SENS. MBH	STAGES	INPUT MBH	OUTPUT MBH	STAGES	NOTES	VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
MAU-1	ACCUREX	XDGX-P116-H12-MF-10	4400	0.5	3	2008	100	99.1	80	72.9	72.9	127.7	113.3	1	335.2	308.4	VARIABLE	1.2	480	3	60	20.2	25.2	40	INTEGRAL	HDP	3/4" C. (4) #8, (1) #10 G.	-
MAU-2	ACCUREX	XDGX-P116-H12-MF-10	4400	0.5	3	2008	100	99.1	80	72.9	72.9	127.7	113.3	1	335.2	308.4	VARIABLE	1.2	480	3	60	20.2	25.2	40	INTEGRAL	HDP	3/4" C. (4) #8, (1) #10 G.	-

NOTES: 1. PROVIDE WITH DISCONNECT SWITCH.  
2. PROVIDE WITH ROOF CURB OF HEIGHT REQUIRED TO HAVE THE TOP OF THE CURB A MINIMUM OF 8" ABOVE THE TOP OF THE ROOF SURFACE, OR MINIMUM CURB HEIGHT OF 18", WHICHEVER IS GREATER.

NOTES: A.

## RADIANT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	HEATING (NATURAL GAS)			CLEARANCE TO COMBUSTIBLES			NOTES	ELECTRICAL									
			INPUT (MBH)	ENDS (IN.)	ABOVE (IN.)	BELOW (IN.)	VOLT	PHASE		HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES		
																		HEATING (NATURAL GAS)	CLEARANCE TO COMBUSTIBLES
GEH-1	SUNSTAR	SGL50-N7	50	14	17	48	1.2,3	120	1	60	0.4	1	15	20A/1P TOGGLE	P1	2 #12, #12G, 3/4" C.	-		
GEH-2	SUNSTAR	SGL50-N7	50	14	17	48	1.2,3	120	1	60	0.4	1	15	20A/1P TOGGLE	P1	2 #12, #12G, 3/4" C.	-		
GEH-3	SUNSTAR	SGL50-N7	50	14	17	48	1.2,3	120	1	60	0.4	1	15	20A/1P TOGGLE	P1	2 #12, #12G, 3/4" C.	-		
GEH-4	SUNSTAR	SGL50-N7	50	14	17	48	1.2,3	120	1	60	0.4	1	15	20A/1P TOGGLE	P1	2 #12, #12G, 3/4" C.	-		
GEH-5	SUNSTAR	SGL50-N7	50	14	17	48	1.2,3	120	1	60	0.4	1	15	20A/1P TOGGLE	P1	2 #12, #12G, 3/4" C.	-		

NOTES: 1. PROVIDE WITH MANUFACTURER'S MASTER CONTROLLER WITH 60 MINUTE TIMER AND ILLUMINATED 3 POSITION FLUSH MOUNT SWITCH.  
2. PROVIDE WITH HEAT SHIELD FOR REDUCED CLEARANCE REQUIREMENTS.  
3. PROVIDE WALL / CEILING TELESCOPIC ADJUSTABLE MOUNTING BRACKET KIT.

NOTES: A.

## UNIT HEATER SCHEDULE

MARK NO.	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	HEATING (ELEC)		NOTES	ELECTRICAL									
					OUTPUT (MBH)	INPUT (KW)		VOLT	PHASE	HZ	FLA	MCA	MOCP	DISCONNECT	CIRCUIT TO PANEL	BRANCH CIRCUIT TAG / SIZE	NOTES
UH-1	BERKO	HUHAAS27	HORIZONTAL	350	17	5	1.2,3	277	1	60	18.0	22.6	25	INTEGRAL	L	3/4" C. (4) #10, (1) #10 G.	-
UH-2	BERKO	HUHAAS27	HORIZONTAL	350	17	5	1.2,3	277	1	60	18.0	22.6	25	INTEGRAL	L	3/4" C. (4) #10, (1) #10 G.	-

NOTES: 1. PROVIDE WITH DISCONNECT SWITCH.  
2. PROVIDE WITH INTEGRAL THERMOSTAT.  
3. PROVIDE WITH WALL HANGING KIT.

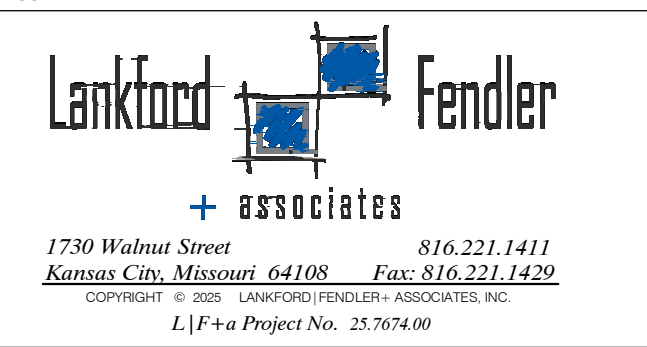
\*HEATING KW IS NET CAPACITY AT VOLTAGE AND PHASE INDICATED.

NOTES: A.

ARCHITECT OF RECORD



CONSULTANT



CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER: 62910099

PROJECT MANAGER: AVM DRAWN BY: EDG CHECKED BY:

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SHEET NAME

MEP SCHEDULES

SHEET NUMBER

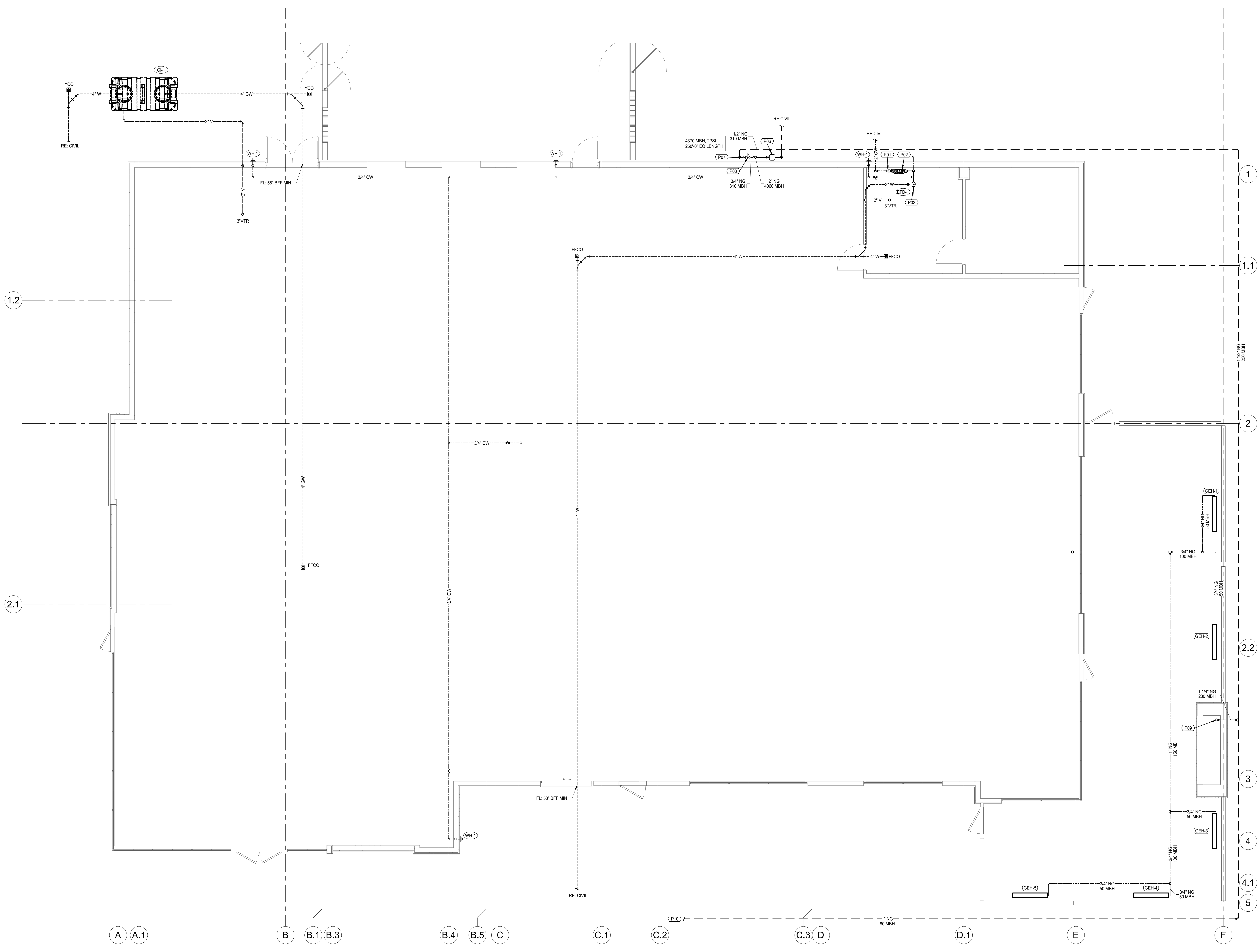
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- FLOOR PLAN NOTES**
- P01 PROVIDE NEW 2" RPZ BACKFLOW PREVENTER, WATTS LF009 OR EQUAL. ROUTE WASTE FROM AIR-GAP FITTING TO FLOOR DRAIN AND INDIRECT WASTE.
  - P02 PROVIDE NEW 1" DOUBLE CHECK BFP, WATTS LF007 OR EQUAL. VALVE AND CAP FOR FUTURE CONNECTION TO IRRIGATION SYSTEM.
  - P03 VALVE AND CAP 2" COLD WATER FOR FUTURE CONNECTION.
  - P06 NEW GAS METER BY UTILITY. PROVIDE ALL FITTINGS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION/CONNECTION PER UTILITY STANDARDS. COORDINATE FINAL GAS LOAD WITH UTILITY PRIOR TO CONSTRUCTION.
  - P07 ROUTE GAS PIPING DOWN BELOW GRADE.
  - P08 PROVIDE INLINE PRESSURE REGULATOR - INLET: 27PSI, OUTLET: 8"VC.
  - P09 CONNECT TO FIREPLACE WITH GAS COOK, DIRT LEG, AND UNION AND/OR APPLIANCE CONNECTOR IN ACCESSIBLE LOCATION. PROVIDE ELECTRONIC SOLENOID VALVE INTERLOCKED WITH EMERGENCY STOP BUTTON. RE ELECTRICAL SHEETS FOR LOCATION.
  - P10 ROUTE GAS PIPING OVER BELOW GRADE AND CONNECT TO FIRE TABLE WITH GAS COOK, DIRT LEG, AND UNION AND/OR APPLIANCE CONNECTOR IN ACCESSIBLE LOCATION.

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE



PROJECT NUMBER: 62910099

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

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**ISSUES AND REVISIONS**

NUMBER	DATE	REVISION	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME

**FLOOR PLAN - PLUMBING**

SHEET NUMBER

**P100**

**FLOOR PLAN NOTES**

P04 CONNECT TO MECHANICAL EQUIPMENT WITH GAS COCK, DIRT LEG, AND UNION. PROVIDE PRESSURE REGULATOR INLET, 3PSI, OUTLET, 1/4" WID WITHIN 10" OF UNIT CONNECTION. VALVE AND CAP NATURAL GAS PIPING ON ROOF FOR FUTURE CONNECTION TO EQUIPMENT.

ARCHITECT OF RECORD

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CLIENT

PROJECT TITLE

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**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE



PROJECT NUMBER: 62910099

PROJECT MANAGER:	DRAWN BY:	CHECKED BY:
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**ISSUES AND REVISIONS**

NUMBER	DATE	PROVIDER	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME

**ROOF PLAN - PLUMBING**

SHEET NUMBER

**P200**

## PLUMBING FIXTURE SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER	MODEL NO.	DESCRIPTION	MINIMUM CONNECTION SIZE			
					CW	HW	WASTE	VENT
EPD-1	EQUIPMENT FLOOR DRAIN	J.R. SMITH	2210Y	MEDIUM CAPACITY, MEDIUM DUTY DUCO CAST IRON BODY, SEDIMENT BUCKET AND GRATE, NO HUB OUTLET. PROVIDE WITH 6" X 4" OVAL FUNNEL WHERE DRAIN RECEIVES INDIRECT WASTE (AND TRAP PRIMER CONNECTION).	-	-	3"	2"
WH-1	WALL HYDRANT	WOODFORD	67	EXPOSED, FREEZELESS WALL HYDRANT, CHROME PLATED BRASS, 3/4" INLET AND HOSE CONNECTION, INTEGRAL ASSE DOUBLE CHECK BACKFLOW PREVENTER, LOOSE KEY, STEM LENGTH AS REQUIRED.	3/4"	-	-	-
RH-1	ROOF HYDRANT	WOODFORD	SRH-MS	DRAINABLE, FREEZELESS BRASS ROOF HYDRANT, 3/4" INLET AND 3/4" HOSE CONNECTION, ASSE DOUBLE CHECK BACKFLOW PREVENTER, DIVERTER, AUTOMATIC DRAINING, PAIL HOOK, LEVER ACTUATOR WITH GALVANIZED STEEL ROD AND ONE PIECE PLINGER, CAST IRON MOUNTING SUPPORT AND UNDER DECK FLANGE WITH WEATHER PROOF BOOT ASSEMBLY.	3/4"	-	-	-

## GREASE INTERCEPTOR SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	MATERIAL	INSTALLATION	LIQUID CAPACITY (GAL)	GREASE CAPACITY (LBS)	FLOW RATE (GPM)	INLET/OUTLET SIZE	COVER TYPE	MAX OPERATING TEMP (°F)	NOTES
GI-1	SCHIER	GB-500	ENGINEERED POLYETHYLENE	BELOW GRADE	510	3,048	100	4"	GAS/WATER TIGHT	140	1,2,3

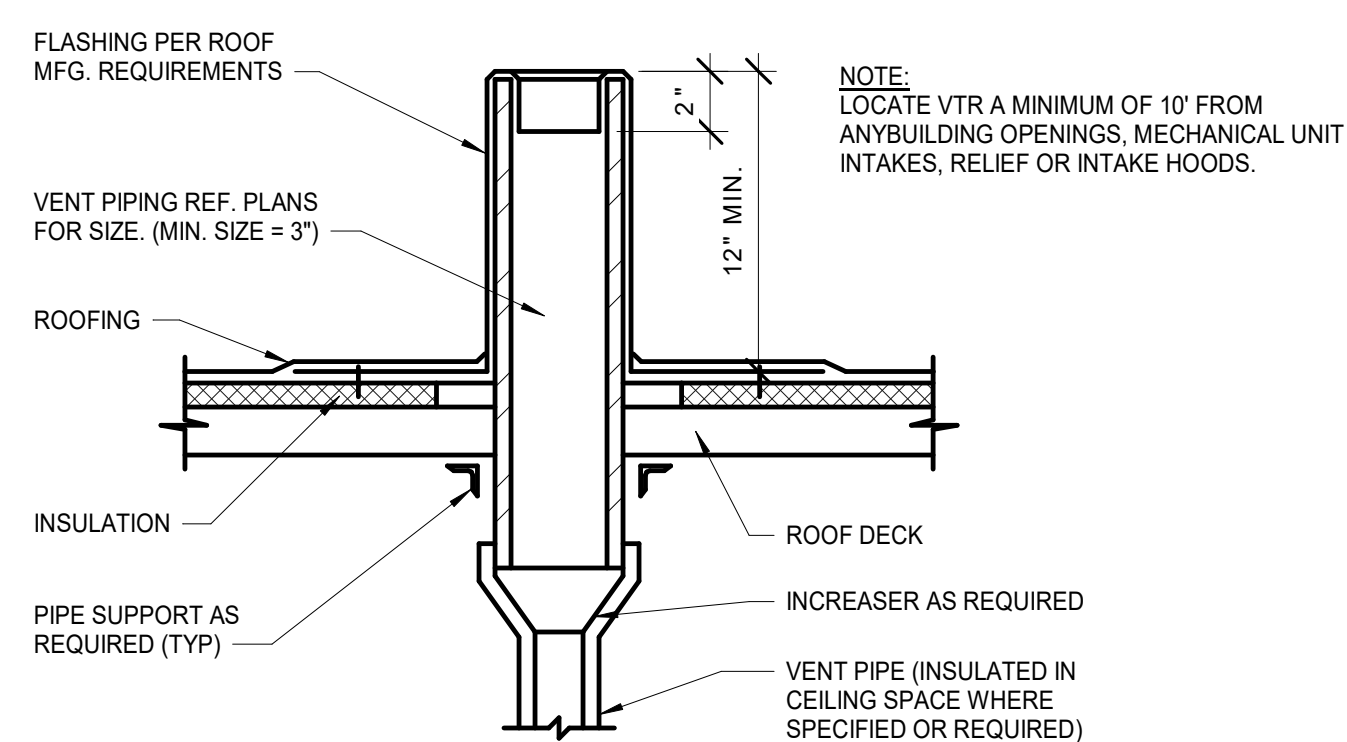
NOTES:

- PROVIDE WITH EXTENSION OR RISERS AS REQUIRED TO MEET GRADE/SLAB.
- PROVIDE HIGH-WATER ANCHOR KIT WHERE INTERCEPTOR IS INSTALLED IN AREA SUSCEPTIBLE TO HIGH WATER TABLE.
- VENT INTERCEPTOR PER AHJ REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS.

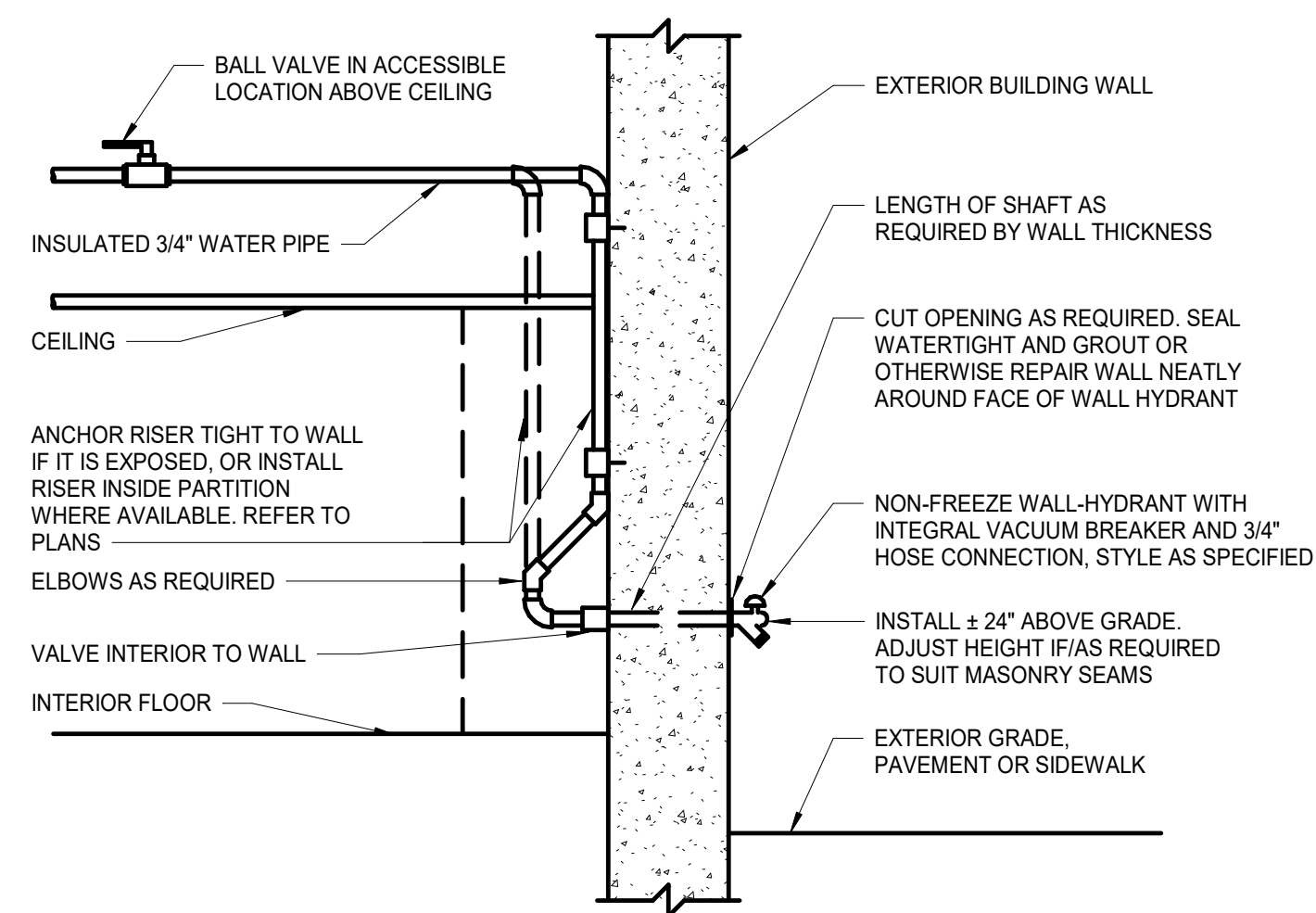
## NATURAL GAS SCHEDULE

TAG	FIXTURE	CONNECTED LOAD (MBH)
<b>MECHANICAL EQUIPMENT</b>		
RTU-1	ROOF TOP UNIT	360
RTU-2	ROOF TOP UNIT	260
RTU-3	ROOF TOP UNIT	260
RTU-4	ROOF TOP UNIT	360
MAU-1	MAKEUP AIR UNIT	536
MAU-2	MAKEUP AIR UNIT	536
GEH-1	RADIANT HEATER	50
GEH-2	RADIANT HEATER	50
GEH-3	RADIANT HEATER	50
GEH-4	RADIANT HEATER	50
GEH-5	RADIANT HEATER	50
MECHANICAL EQUIPMENT TOTAL:		2162
<b>PLUMBING EQUIPMENT</b>		
-	(FUTURE) WATER HEATER	199
-	(FUTURE) WATER HEATER	199
PLUMBING EQUIPMENT TOTAL:		398
<b>KITCHEN EQUIPMENT</b>		
-	FUTURE	1500
KITCHEN EQUIPMENT TOTAL:		1500
<b>MISC EQUIPMENT</b>		
-	FIRE TABLE	80
-	FIREPLACE	230
MISC EQUIPMENT TOTAL:		310
TOTAL GAS LOAD		4370

NOTES:  
 INTERIOR GAS PIPING SIZED PER TABLE 402.4(5) WITH A TOTAL DEVELOPED LENGTH OF 150'-0" AND A SERVICE PRESSURE OF 2 PSI.  
 SET PRESSURE REGULATORS TO 8" W.C. OR AS REQUIRED BY EQMT MANUFACTURER.

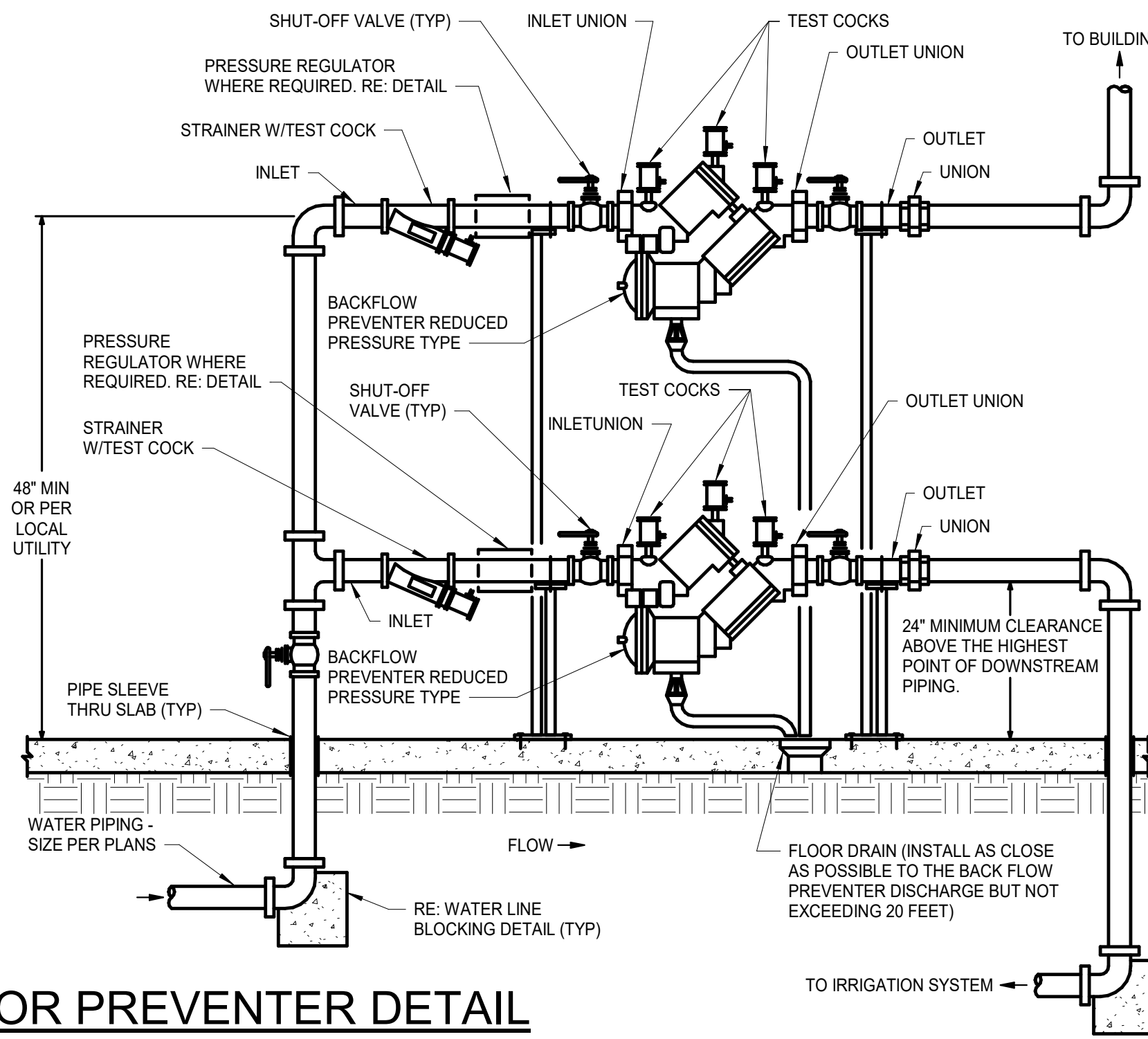


**VENT THRU ROOF DETAIL**  
NOT TO SCALE



**NON-FREEZE WALL HYDRANT DETAIL**  
NOT TO SCALE

- NOTES:
- PROVIDE PRESSURE REGULATOR, SET TO 75 PSI WHERE SOURCE PRESSURE EXCEEDS 80 PSI. INSTALL DOWNSTREAM OF BACKFLOW PREVENTER OUTLET. RE: DETAIL.
  - ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS. INSTALL SO BFP CAN BE SERVICED AND TESTED IN ACCORDANCE W/ ALL RULES & REGULATIONS OF LOCAL AUTHORITIES.
  - ROUTE DRAIN AS INDICATED ON PLANS.
  - SUPPORT AS REQUIRED FROM SLAB.



**INTERIOR BACKFLOW PREVENTER DETAIL**  
NOT TO SCALE

## GENERAL NOTES (TYPICAL ALL SHEETS)

- PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS.
- INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS.
- PLUMBING CONTRACTOR SHALL PROVIDE PRO-SET SYSTEMS TRAP GUARD IN ALL FLOOR DRAIN TRAPS WITHIN PROJECT SCOPE OF WORK.
- PLUMBING CONTRACTOR SHALL VERIFY WALL THICKNESS WITH ARCHITECT PRIOR TO ORDERING FREEZE PROOF WALL HYDRANTS.
- UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- ALL CABLE TIES FOR LOW VOLTAGE SYSTEMS LOCATED IN PLENUMS UTILIZED FOR AIR MOVEMENT THAT ARE NOT INSTALLED IN CONDUIT SHALL BE 2550 FLAME AND SMOKE RATED, HELLEBRANN TYTON T50 RIGID, OR EQUIVALENT.

## FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS & INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

## PLUMBING SYMBOLS

- EXISTING TO REMAIN
- NEW PIPING
- CW - COLD WATER
- NG - NATURAL GAS
- - - - - V - SANITARY VENT ABOVE GRD. FLOOR ABOVE
- - - - - V - SANITARY VENT BELOW GROUND
- - - - - W - SANITARY WASTE BELOW GROUND
- - - - - GW - GREASE WASTE ABOVE GRD. FLOOR ABOVE
- - - - - GW - GREASE WASTE BELOW GROUND
- ⊕ GAS SHUT-OFF COCK
- ⊕ SHUT-OFF VALVE
- ⊕ PRESSURE REGULATOR
- ⊕ FLOOR DRAIN
- ⊕ PIPE DROPP/PIPE RISER
- ⊕ BOTTOM OUTLET TEE
- ⊕ TOP OUTLET TEE
- ⊕ WALL HYDRANT
- ⊕ WALL CLEANOUT
- ⊕ FFCD FINISHED FLOOR CLEANOUT
- ⊕ VTR VENT THRU ROOF
- ⊕ EQUIPMENT TYPE AND DESIGNATION
- ⊕ PLUMBING FIXTURE TYPE AND DESIGNATION

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CLIENT

PROJECT TITLE

**Q39 (SHELL)**

**LEE'S SUMMIT, MO**

OLDHAM VILLAGE

PROJECT NUMBER	62910099
PROJECT MANAGER	DRAWN BY
Approved	Author
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**ISSUES AND REVISIONS**

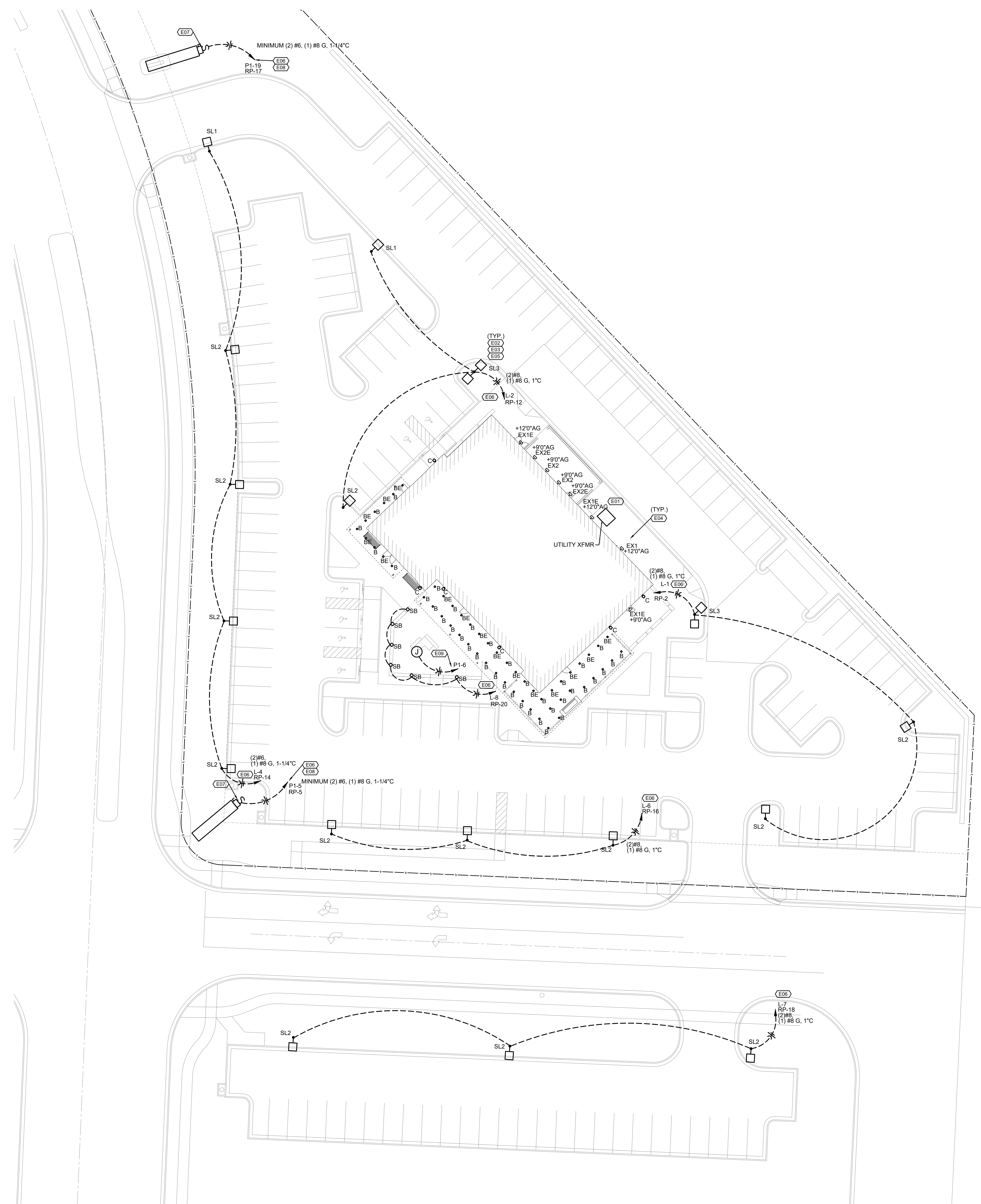
NUMBER	DATE	REVISION	ORIGINAL ISSUE

SHEET NAME

**PLUMBING SCHEDULES, GEN. NOTES, & SYMBOLS**

SHEET NUMBER

**P300**



**E001 SITE PLAN NOTES**

1. REFERENCE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
2. REFERENCE MANUFACTURER SPECIFICATIONS PRIOR TO INSTALLATION OF POLE MOUNTED LIGHT FIXTURE. REFERENCE LIGHT POLE BASE ON SHEET E003. CONFIRM FINISH COLOR WITH OWNER PRIOR TO ORDERING.
3. LIGHT FIXTURES SHALL BE INSTALLED IN GENERAL LOCATION SHOWN. COORDINATE WITH OTHER TRADES PRIOR TO INSTALL.
4. REFERENCE SHEET E004 FOR CIRCUITING OF BUILDING MOUNTED FIXTURES.
5. REFERENCE LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
6. ROUTE HOMERUN THROUGH LIGHTING CONTROL RELAY PANEL AS INDICATED. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.
7. PROVIDE NEMA 3R TOGGLE DISCONNECT SWITCH FOR MONUMENT SIGN. VERIFY EXACT LOCATION AND POWER REQUIREMENTS WITH SIGNAGE VENDOR PRIOR TO INSTALL.
8. VERIFY MONUMENT SIGN POWER REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. CALCULATE PROPER CONDUCTOR SIZE REQUIRED TAKING VOLTAGE DROP INTO CONSIDERATION.
9. PROVIDE POWER CONNECTION TO FIRE PIT. PROVIDE EPD AND CONTROL WIRING AS REQUIRED.

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 CLIENT: LEE'S SUMMIT VILLAGE

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER: 62910099

PROJECT MANAGER	DRAWN BY	CHECKED BY
Approver	Author	

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**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
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SHEET NAME

**SITE PLAN - ELECTRICAL**

SHEET NUMBER

**SITE PLAN-ELECTRICAL**  
 SCALE: 1" = 20'-0"

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**E001**

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**SITE PLAN NOTES**

1. PHOTOMETRICS ARE CALCULATED REFERENCING IES FILES FROM SPECIFIED LIGHT FIXTURES. LIGHT FIXTURE ALTERNATES OR CHANGES TO MOUNTING HEIGHTS MAY DIFFER IN PHOTOMETRIC SUMMARY AND SHALL BE CALCULATED AS REQUIRED.

CALCULATION SUMMARY						
	CALC TYPE	UNITS	AVG	MAX	MIN	AVGMIN
MAIN PARKING LOT	ILLUMINANCE	FOOTCANDELS	3.83	9.3	0.8	4.79
SOUTH PARKING LOT	ILLUMINANCE	FOOTCANDELS	2.78	4.8	1.4	1.69
PROPERTY LINE - MAIN PROPERTY	ILLUMINANCE	FOOTCANDELS	0.86	3.0	0.0	—
PROPERTY LINE - SOUTH PARKING	ILLUMINANCE	FOOTCANDELS	1.12	2.3	0.1	11.20

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 CONSULTANT: LANKFORD FENDLER & ASSOCIATES CONSULTING ENGINEERS, INC.

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER	62910099
PROJECT MANAGER	DRAWN BY
Approver	Author
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**SITE PLAN - PHOTOMETRIC**

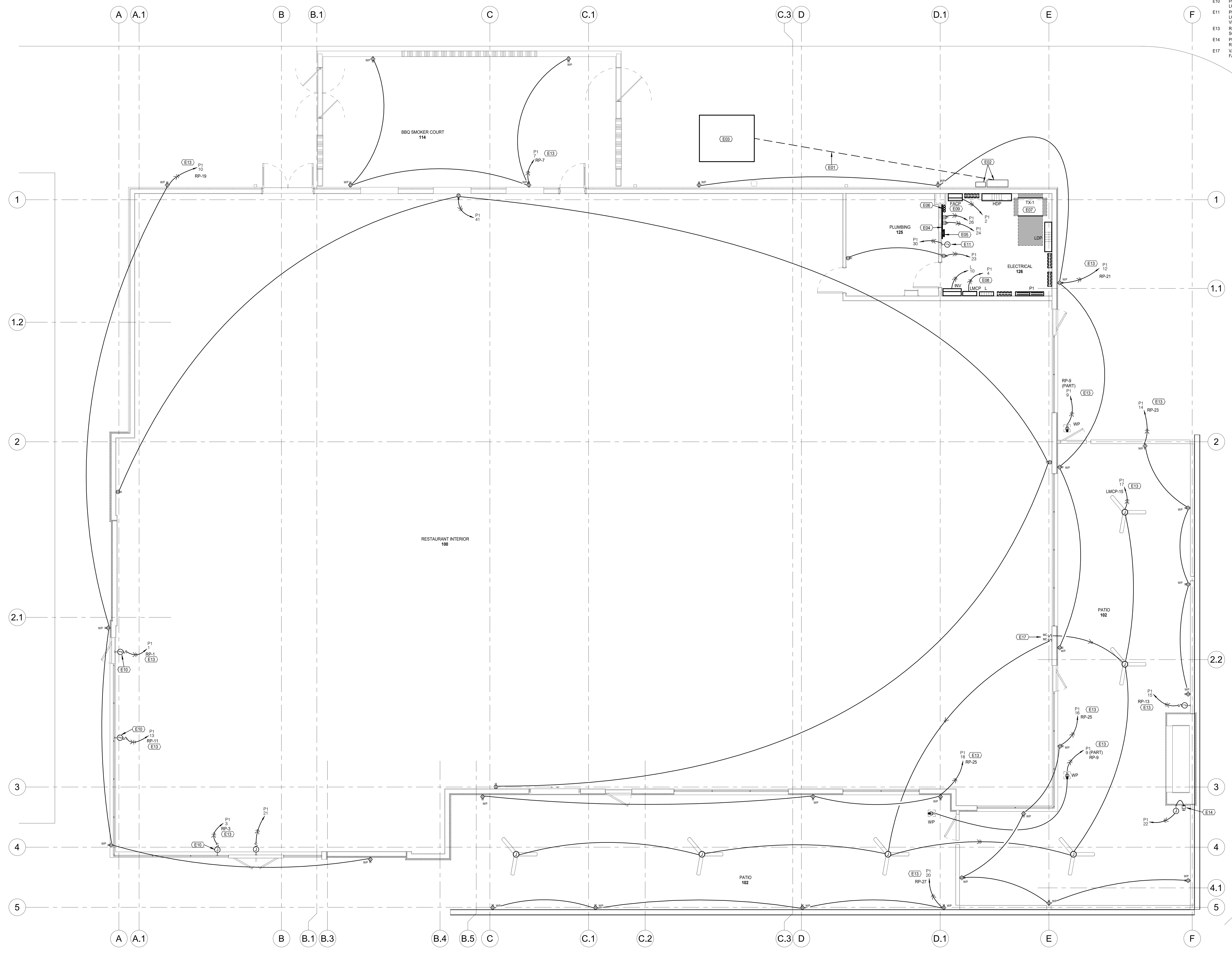
SHEET NUMBER

**E002**





- FLOOR PLAN NOTES**
- E01 PROVIDE TRANSFORMER SECONDARY FEEDERS REFER TO RISER DIAGRAM AND FEEDER SCHEDULE FOR MORE INFORMATION.
  - E02 PROVIDE UTILITY METER BASE AND CT CABINET PER UTILITY STANDARDS. PROVIDE GROUND PER UTILITY STANDARDS. ROUTE CONDUIT TO ELECTRICAL SERVICE ENTRANCE EQUIPMENT.
  - E03 UTILITY TRANSFORMER PROVIDED BY THE UTILITY COMPANY. PROVIDE CONCRETE PAD PER UTILITY COMPANY STANDARDS. COORDINATE EXACT LOCATION OF PAD WITH ARCHITECTURAL AND CIVIL PLANS. ENSURE THAT UTILITY REQUIRED CLEARANCES ARE MAINTAINED.
  - E04 PROVIDE 4" X 8" X 3/4" FIRE TREATED PLYWOOD BACKBOARDS, PAINTED ON ALL SIDES WITH TWO COATS OF WHITE FIRE RETARDANT PAINT.
  - E05 PROVIDE MAIN TELECOMMUNICATIONS GROUND BAR. PROVIDE WITH STAND-OFF ISOLATORS AND GROUND WIRE BACK TO BUILDING MAIN GROUNDING ELECTRODE SYSTEM.
  - E06 PROVIDE 3" CONDUITS WITH PULL STRING TO PROPERTY LINE FOR CONNECTION TO SERVICE PROVIDERS. COORDINATE LOCATION AND TERMINATION WITH SERVICE PROVIDERS. STUB UP TO 12" ABOVE DEMARC ROOM.
  - E07 FLOOR MOUNT TRANSFORMER ON CONCRETE HOUSEKEEPING PAD. SIZE PAD TO BE 4" WIDER ON ALL SIDES RE RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
  - E08 PROVIDE WATERTIGHT IP68-10V LIGHTING CONTROL PANEL WITH EMERGENCY RELAY CAPABILITY OR APPROVED EQUAL.
  - E09 PROVIDE SILENT KNIGHT FIRE ALARM CONTROL PANEL OR APPROVED EQUAL. LOCATION WITH OWNER PRIOR TO INSTALL.
  - E10 PROVIDE POWER TO SECURITY ACCESS CONTROL PANEL. VERIFY EXACT ROUGH-IN LOCATION WITH SECURITY VENDOR.
  - E11 ROUTE HOMERUN THROUGH LIGHTING CONTROL RELAY PANEL AS INDICATED. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.
  - E12 PROVIDE POWER CONNECTION TO FIREPLACE. PROVIDE EPO AND CONTROL WIRING AS REQUIRED.
  - E13 VARIABLE SPEED ON/OFF WALL CONTROL SWITCH FOR OUTDOOR FANS PROVIDED WITH FANS BY OWNER. COORDINATE INSTALLATION WITH ARCHITECT.



**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

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**ISSUES AND REVISIONS**

NUMBER	DATE	REVISION	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME: **FLOOR PLAN - POWER**

SHEET NUMBER: **E100**

**FLOOR PLAN NOTES**

E13 ROUTE HOMERUN THROUGH LIGHTING CONTROL RELAY PANEL AS INDICATED. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.

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PROJECT TITLE

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**LEE'S SUMMIT, MO**  
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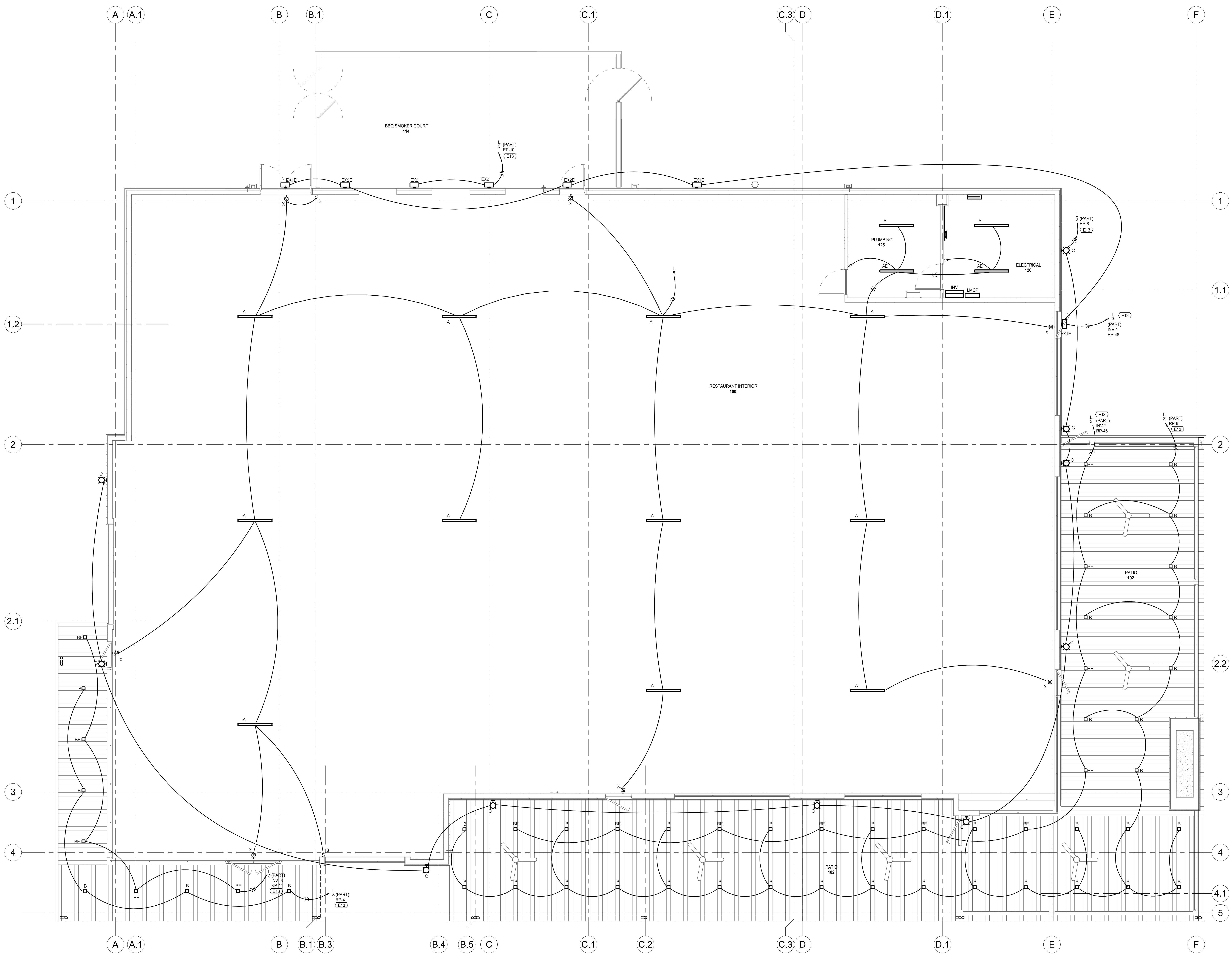
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**ISSUES AND REVISIONS**

NUMBER	DATE	REVISION	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME  
**FLOOR PLAN - LIGHTING**  
 SHEET NUMBER

**E200**



**TRUE**  
**FLOOR PLAN - LIGHTING**  
 SCALE: 1/4" = 1'-0"

4/30/2025 5:56:07 PM

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**FLOOR PLAN NOTES**

E12 PROVIDE WEATHERPROOF HORNSTROBE DEVICE ABOVE SIAMESE FIRE DEPARTMENT CONNECTION.  
 E15 PROVIDE FIRE ALARM RELAY AND CONNECTIONS TO FIRE SPRINKLER FLOW AND TAMPER SWITCHES AS REQUIRED. COORDINATE QUANTITY AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR.

ARCHITECT OF RECORD

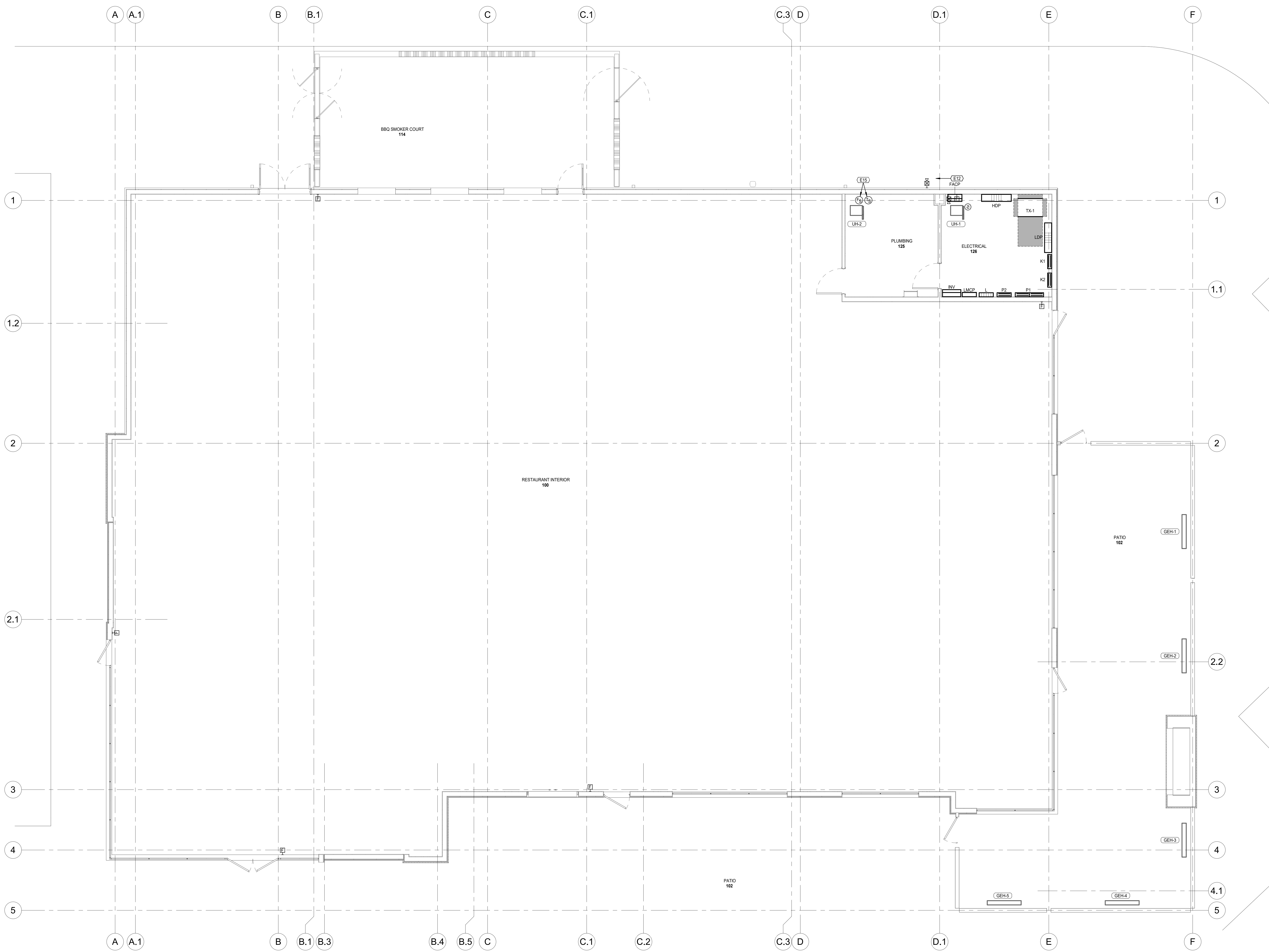
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 E.I.P. a Project No. 2770440

CLIENT

PROJECT TITLE



**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE

PROJECT NUMBER	62910099
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**ISSUES AND REVISIONS**

NUMBER	DATE	REVISION	ORIGINAL ISSUE	DESCRIPTION

SHEET NAME

**FLOOR PLAN - SYSTEMS**

SHEET NUMBER

**E300**

4/30/2025 5:56:08 PM

**FLOOR PLAN NOTES**

E18 PROVIDE DUCT DETECTORS IN SUPPLY AND RETURN DUCTS OF ROOFTOP HVAC EQUIPMENT. CONNECT TO FIRE ALARM SYSTEM AND PROVIDE CONTROL WIRING AS REQUIRED FOR EQUIPMENT SHUTDOWN.

ARCHITECT OF RECORD

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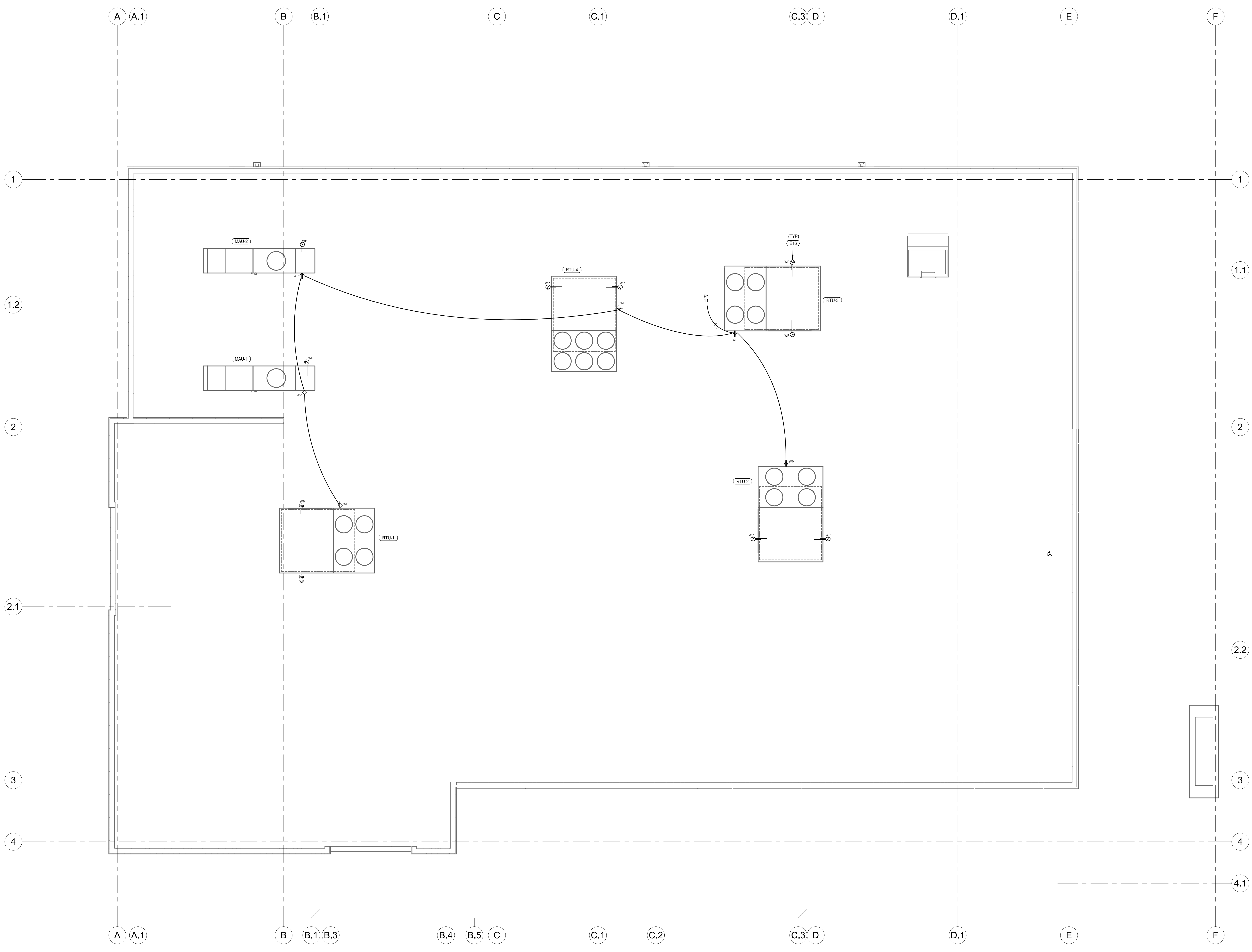
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CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
 OLDHAM VILLAGE



PROJECT NUMBER: 62910096

PROJECT MANAGER:	DRAWN BY:	CHECKED BY:
Approver:	Author:	

PROFESSIONAL SEAL



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**ISSUES AND REVISIONS**

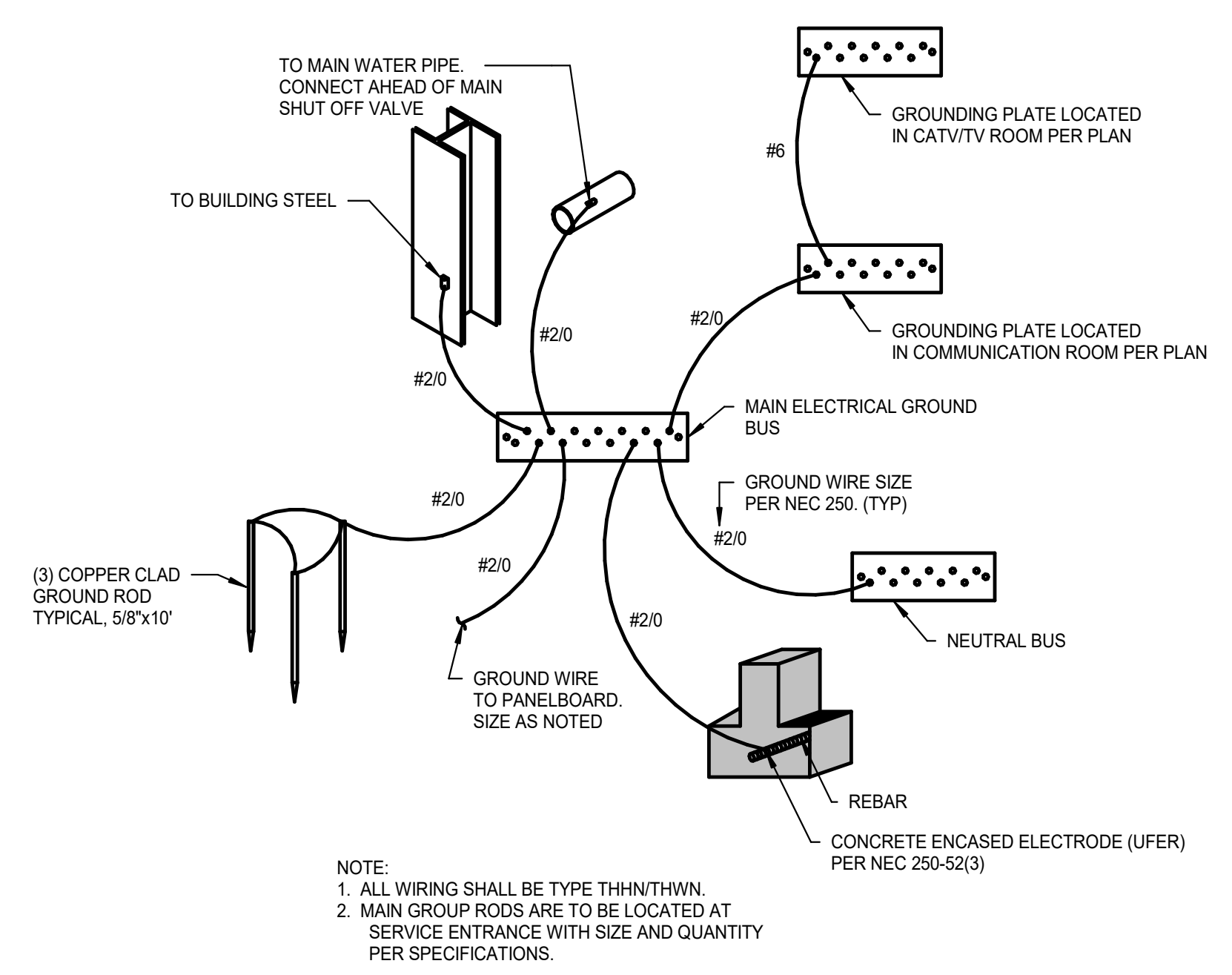
NUMBER	DATE	REVISION	DESCRIPTION

SHEET NAME

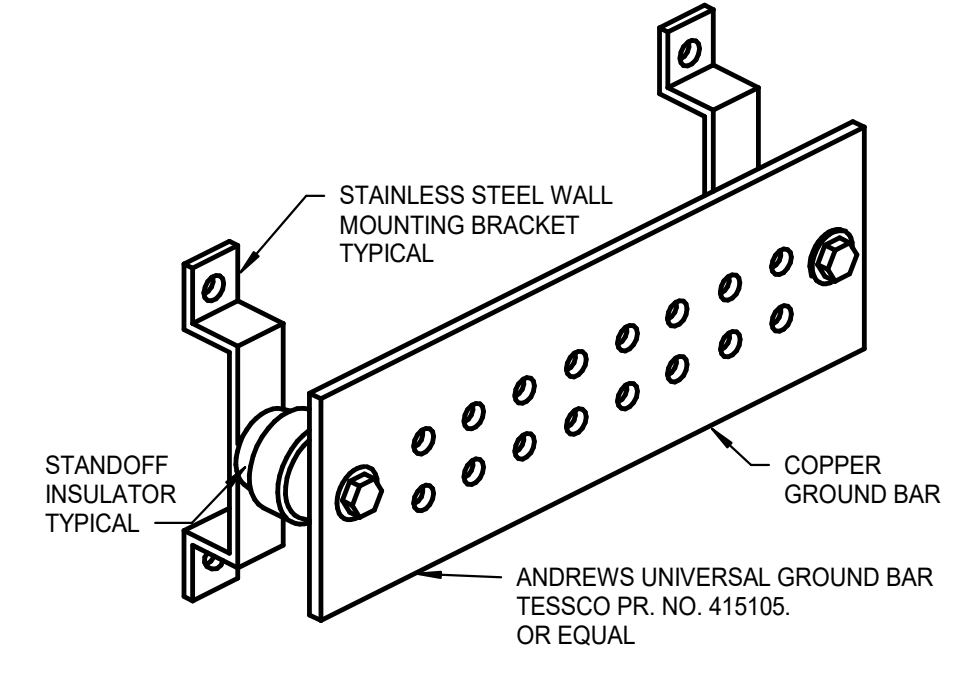
**ROOF PLAN - ELECTRICAL**

SHEET NUMBER

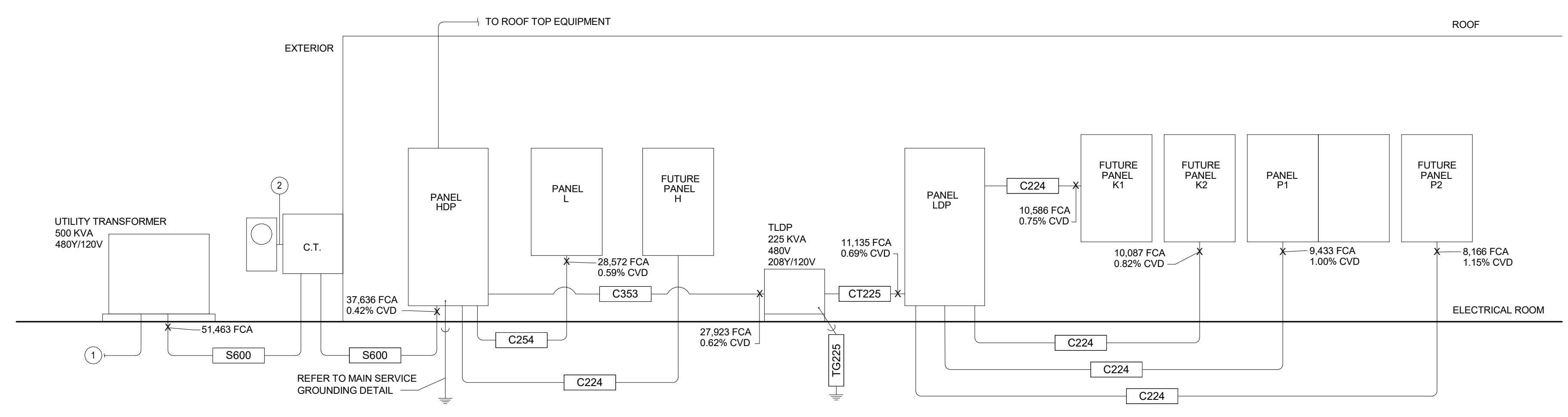
**E400**



**MAIN SERVICE ENTRANCE GROUNDING DETAIL**  
 NOT TO SCALE



**MAIN TELECOMMUNICATIONS GROUND BAR DETAIL**  
 NOT TO SCALE



**ELECTRICAL RISER DIAGRAM**  
 NOT TO SCALE

**Ⓧ RISER NOTES**

1. PROVIDE 4" CONDUIT(S) FOR UTILITY PRIMARY AS REQUIRED BY THE UTILITY COMPANY. PRIMARY CONDUCTORS PROVIDED BY UTILITY. COORDINATE EXACT ROUTING WITH CIVIL AND UTILITY COMPANY.
2. 1-1/4" CONDUIT.

**FEEDER SCHEDULE - COPPER**

CIRCUIT	TAG	NUMBER	3-WIRE W/ GROUND			EQUIPMENT GROUND	CONDUIT SIZE	NEC SIZE EMT/PVC/RGS	TAG	NUMBER	4-WIRE W/ GROUND			EQUIPMENT GROUND	CONDUIT SIZE	NEC SIZE EMT/PVC/RGS
			PHASE / NEUTRAL	CONDUCTORS	CONDUCTORS						PHASE / NEUTRAL	CONDUCTORS	CONDUCTORS			
225	C223	1	3 #10	#4	2"	2" / 2"	C224	1	4 #10	#4	2.5"	2.5" / 2.5"	2.5"	2.5" / 2.5"	2.5"	
250	C253	1	3 #250	#4	2.5"	2" / 2"	C254	1	4 #250	#4	2.5"	2.5" / 2.5"	2.5"	2.5" / 2.5"	2.5"	
350	C353	1	3 #500	#3	3.5"	2.5" / 3"	C354	1	4 #500	#3	3.5"	3"	3"	3"	3"	
700	CT225	3	4 #250	#20	3"	2.5" / 2.5"										
SERVICE ENTRANCE CONDUCTIONS																
600	S600	2	4 #350	-	4"	2.5" / 3"										
MISC FEEDER DESCRIPTIONS																
15025		1	N/A	#20	0.75"	0.75" / 0.75"	TRANSFORMER GROUND									

NOTES:  
 1. SIZE BRANCH FEEDER AND CIRCUITS ACCORDING TO THE CIRCUIT BREAKER / FUSE SIZE AND THIS SCHEDULE.  
 TAG NAME MAY BE USED AS AN ADDITIONAL REFERENCE.  
 2. REFER TO THE SPECIFICATIONS AND GENERAL NOTES FOR MINIMUM CONDUIT SIZE REQUIREMENTS.  
 MINIMUM SIZE REQUIRED MAY BE LARGER THAN SHOWN IN THIS SCHEDULE.  
 3. CONDUCTOR SIZES ARE BASED UPON TYPE THINWALL CONDUCTORS WITH EMT OR SCHEDULE 40 PVC CONDUIT.  
 VERIFY AND ADJUST CONDUIT SIZE AS REQUIRED FOR OTHER TYPES OF CONDUIT.  
 4. CONDUCTOR SIZES ARE BASED UPON 100 FEET OR LESS IN LENGTH. IF ONE WAY CIRCUIT IS OVER 100 FEET,  
 INCREASE FEEDER SIZES AS REQUIRED FOR VOLTAGE DROP.  
 5. APPLY AMBIENT TEMPERATURE CORRECTION FACTORS AS REQUIRED BY THE NEC AND MODIFY FEEDER  
 SIZES ACCORDINGLY.  
 6. APPLY DERATING FACTORS FOR MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY AS REQUIRED  
 BY THE NEC AND MODIFY FEEDER SIZES ACCORDINGLY.

**ELECTRICAL RISER DIAGRAM NOTE**  
 UTILITY TRANSFORMER DESIGN CRITERIA: 500 KVA, PAD MOUNT.  
 UTILITY TRANSFORMER SECONDARY VOLTAGE: 480V/120V, 3-PHASE, 4-WIRE  
 UTILITY TRANSFORMER IMPEDANCE: 1.30% Z  
 MAXIMUM AVAILABLE FAULT CURRENT AT UTILITY TRANSFORMER SECONDARY IS  
 51,463 AMPS. FAULT CURRENT WAS DETERMINED BASED ON THE MAXIMUM LET  
 THROUGH CURRENT OF A TRANSFORMER WITH THE ABOVE CRITERIA.

PROJECT NUMBER: 62910099

PROJECT MANAGER:	DRAWN BY:	CHECKED BY:
Approver:	Author:	

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**ISSUES AND REVISIONS**

NUMBER	DATE	DESCRIPTION
1 <td>ISSUED <td>ORIGINAL ISSUE</td> </td>	ISSUED <td>ORIGINAL ISSUE</td>	ORIGINAL ISSUE

SHEET NAME

**ELECTRICAL  
 DETAILS**

SHEET NUMBER

**E500**

PANELBOARD HDP BUS AMPS: 800A MAIN SIZE: TYPE: 800A MCB: VOLT/PHASE: 480Y/277V, 3PH, 4W SECTION: 1

NOTES: SER= SURGE INDUCTANCE RATED HCR= HATCH RATED SPD= SURGE PROTECTIVE DEVICE

PANELBOARD LDP BUS AMPS: 800A MAIN SIZE: TYPE: 700A MCB: VOLT/PHASE: 208Y/120V, 3PH, 4W SECTION: 1

NOTES: RPL= CONTROL LIGHTING CIRCUIT WITH RELAY PANEL AS INDICATED SPD= SURGE PROTECTIVE DEVICE

PANELBOARD L BUS AMPS: 250A MAIN SIZE: TYPE: MLD MCB: VOLT/PHASE: 480Y/277V, 3PH, 4W SECTION: 1

NOTES: RPL= CONTROL LIGHTING CIRCUIT WITH RELAY PANEL AS INDICATED SPD= SURGE PROTECTIVE DEVICE

PANELBOARD P1 BUS AMPS: 250A MAIN SIZE: TYPE: MLD MCB: VOLT/PHASE: 208Y/120V, 3PH, 4W SECTION: 1

NOTES: RPL= CONTROL LIGHTING CIRCUIT WITH RELAY PANEL AS INDICATED SPD= SURGE PROTECTIVE DEVICE

PANELBOARD LDP BUS AMPS: 800A MAIN SIZE: TYPE: 700A MCB: VOLT/PHASE: 208Y/120V, 3PH, 4W SECTION: 1

NOTES: RPL= CONTROL LIGHTING CIRCUIT WITH RELAY PANEL AS INDICATED SPD= SURGE PROTECTIVE DEVICE

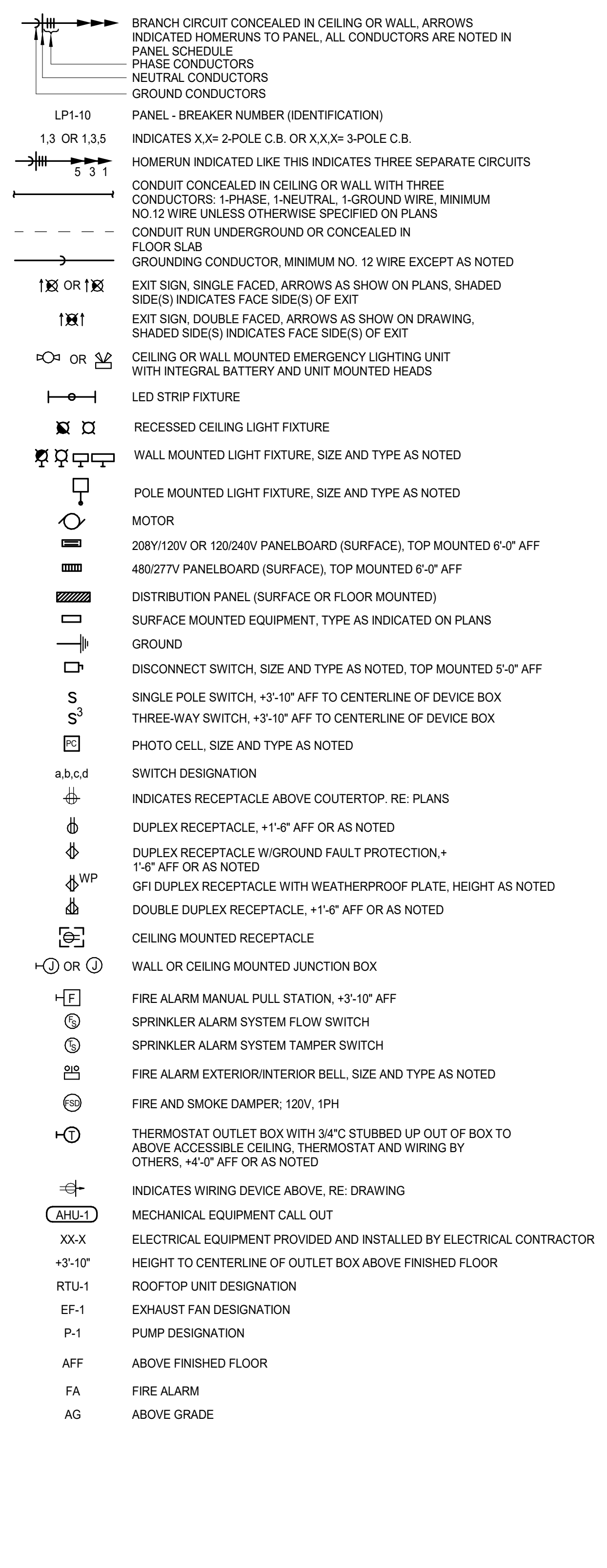
PANELBOARD L BUS AMPS: 250A MAIN SIZE: TYPE: MLD MCB: VOLT/PHASE: 480Y/277V, 3PH, 4W SECTION: 1

NOTES: RPL= CONTROL LIGHTING CIRCUIT WITH RELAY PANEL AS INDICATED SPD= SURGE PROTECTIVE DEVICE

GENERAL NOTES (TYPICAL ALL SHEETS)

- A. REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF JOISTS. B. REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS. C. PROVIDE UPDATED, TYPED WIRING PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CURRENTS HAVE BEEN ADDED TO OR MODIFIED.

ELECTRICAL SYMBOLS



FIRE STOPPING REQUIREMENTS

CONTRACTOR TO PROVIDE FIRESTOPPING AT ALL FIRE RATED ASSEMBLIES MEETING THE MANUFACTURER'S FIRESTOPPING U.L. LISTED DETAILS AND INSTRUCTIONS PER LOCAL CODES AND JURISDICTIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATIONS WITH ARCHITECTURAL FIRE RATINGS ON PLANS OR AS REQUIRED.

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART

Table with columns: OVERCURRENT PROTECTION DEVICE RATING (AMPS), REQUIRED CONDUCTOR SIZE, EQUIPMENT GROUNDING CONDUCTOR SIZE, SINGLE PHASE 2 WIRE + GND CONDUIT SIZE, SINGLE PHASE 3 WIRE + GND CONDUIT SIZE, THREE PHASE 4 WIRE + GND CONDUIT SIZE

- UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

INVERTER: INV

Table with columns: CKT #, LOAD DESCRIPTION, LOAD TYPE, CB AMPS, P, LOAD VA, NOTES

GENERAL: UL 224 LISTED, INPUT FUSE AND BATTERY FUSE PROTECTION FIELD SELECTABLE WIRE 90 MINUTE RUNTIME STANDARD WARRANTY 3 YEARS SELF TEST AND DIAGNOSTICS. WALL MOUNTED CABINET MANUFACTURER STARTUP AND TRAINING OUTPUT CIRCUIT BREAKERS

RELAY PANEL: RP

Table with columns: #, PANEL, CKT, LOAD DESCRIPTION, CONTROL, SCHEDULE, LOAD TYPE, DIMMING, VOLTAGE, P, P, VOLTAGE, DIMMING, LOAD TYPE, SCHEDULE, LOAD DESCRIPTION, SOURCE, PANEL, CKT, #

GENERAL: GRAPHIC DISPLAY WITH LED BACKLIGHT, BUTTON INTERFACE, USE INTERFACE, TIME OF DAY CLOCK AND ASTROCHRONICAL CLOCK. BUILT-IN NETWORK INTERFACE. PROGRAMMABLE SCHEDULE PER RELAY OR CUSTOMIZABLE GROUPS, LOCAL OR NETWORK PROGRAMMING, LOCAL MANUAL ON/OFF OVERRIDE WITH POSITION INDICATION. PHYSICALLY SEPARATED LOW VOLTAGE COMPARTMENT, DIMMING PROTOCOLS AS INDICATED. UL 224 LISTED EMERGENCY CONTROL, BATTERY CONTACTS MONITORING, AEM EMERGENCY OVERTORQUE CONTROL "ON" FIRE ALARM SYSTEM CONTACTS TO FORCE LIGHTING CONTROL SYSTEM INTO EMERGENCY LIGHTING MODE

NOTES: VB= PROVIDE VOLTAGE BARRIER BETWEEN NORMAL AND EMERGENCY POWER CIRCUITS PC= LOAD CONTROLLED VIA PROTOCOL TC= LOAD CONTROLLED VIA TIMECLOCK

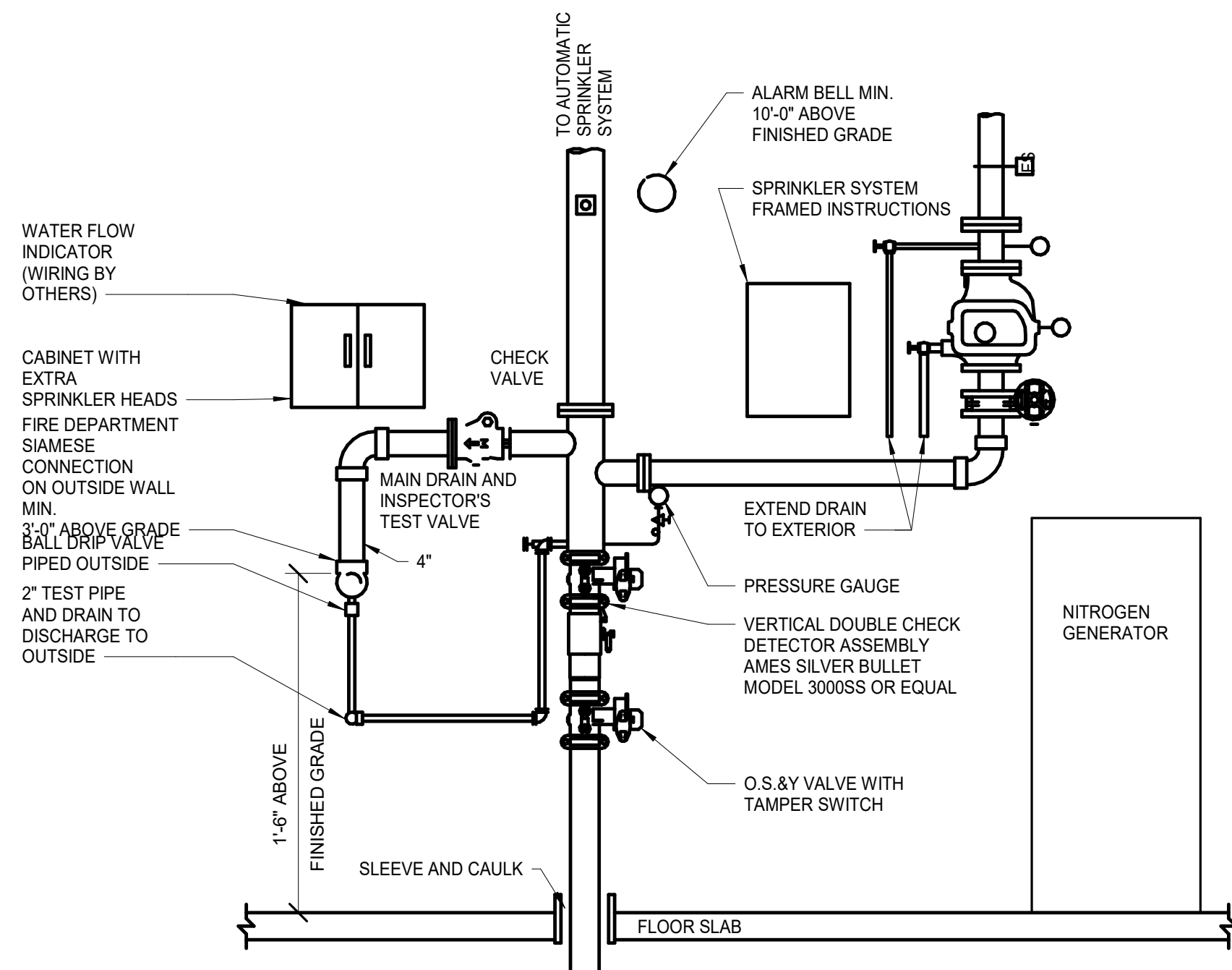
LIGHTING FIXTURE SCHEDULE

Table with columns: TYPE, MANUFACTURER, MODEL #, WATTS, VA, DIMMING, DESCRIPTION, NOTES

SPECIFIC NOTES: SUBSTITUTION NOTES: THE LIGHTING DESIGN FOR THIS PROJECT IS BASED UPON THE MANUFACTURERS SPECIFIED. IF AN ADDITIONAL SUBSTITUTION IS DESIRED BY THE CONTRACTOR, A SUBSTITUTION REQUEST SUBMITTAL MUST BE PROVIDED AS FOLLOWS: 1. SUBSTITUTION REQUEST MUST BE RECEIVED BY THE ENGINEER IN WRITING 10 DAYS PRIOR TO BID. FAILURE TO SUBMIT SUBSTITUTES AS GUARANTEED BY SUPPLIER'S SPECIFICATIONS WILL BE CONSIDERED AS APPROVED. 2. INFORMATION IS TO BE SUPPLIED COMPARED PHOTOMETRY, (WITH FLOOR PLANS INDICATING POINT BY POINT CALCULATIONS) TO PROVIDE UPON REQUEST. 3. GREAT CARE, TIME AND EXPENSE HAVE BEEN USED TO PROVIDE OUR CLIENT WITH THE LIGHTING AND CONTROL SYSTEM. THEREFORE, FOR EACH AND EVERY TYPE OF FIXTURE OFFERED AS AN ALTERNATE TO THE ORIGINAL DESIGN, IT SHALL BE CHANGED TO THE CONTRACTOR FOR REVIEW OF THE ALTERNATE FIXTURE. THIS CHANGE IS IN NO WAY A GUARANTEE OF APPROVAL, BUT IS SOLELY TO COMPENSATE THE ENGINEER FOR THE GREAT VALUE AND EQUALITY AND COMPARABILITY WITH THE PROJECT REQUIREMENTS. THIS INFORMATION MUST BE RECEIVED BY THE ENGINEER PRIOR TO ANY REVIEW COMMENTS. 4. PACKAGING OF LIGHT FIXTURES SHALL NOT BE CONSIDERED OR APPROVED. 5. MANUFACTURERS REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MANUFACTURER SPECIFIED LIGHTING FIXTURES. 6. LIGHTING CONTROL PROFILES SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PROFILE. ANY LIGHTING CONTROL PROFILES THAT IS SUBMITTED WITH LIGHT FIXTURE PROFILE(S) ON (AN) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY.

GENERAL NOTE: 01. ELECTRICAL CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ANY LIGHT FIXTURES. 02. ELECTRICAL CONTRACTOR SHALL COORDINATE DIMMING DIMMER/SYSTEMS WITH DIMMING DIMMER/SYSTEMS AND SHALL INCLUDE ALL REQUIRED CONTROL WIRING.

ELECTRICAL SCHEDULES, GEN. NOTES, & SYMBOLS



NOTE: ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT ACTUAL CONDITIONS. NFPA AND LOCAL CODE REQUIREMENTS. COORDINATE ALARM SYSTEM WITH OTHER TRADES.

**FIRE PROTECTION SERVICE DETAIL**  
NOT TO SCALE

**FIRE PROTECTION DESIGN CRITERIA**

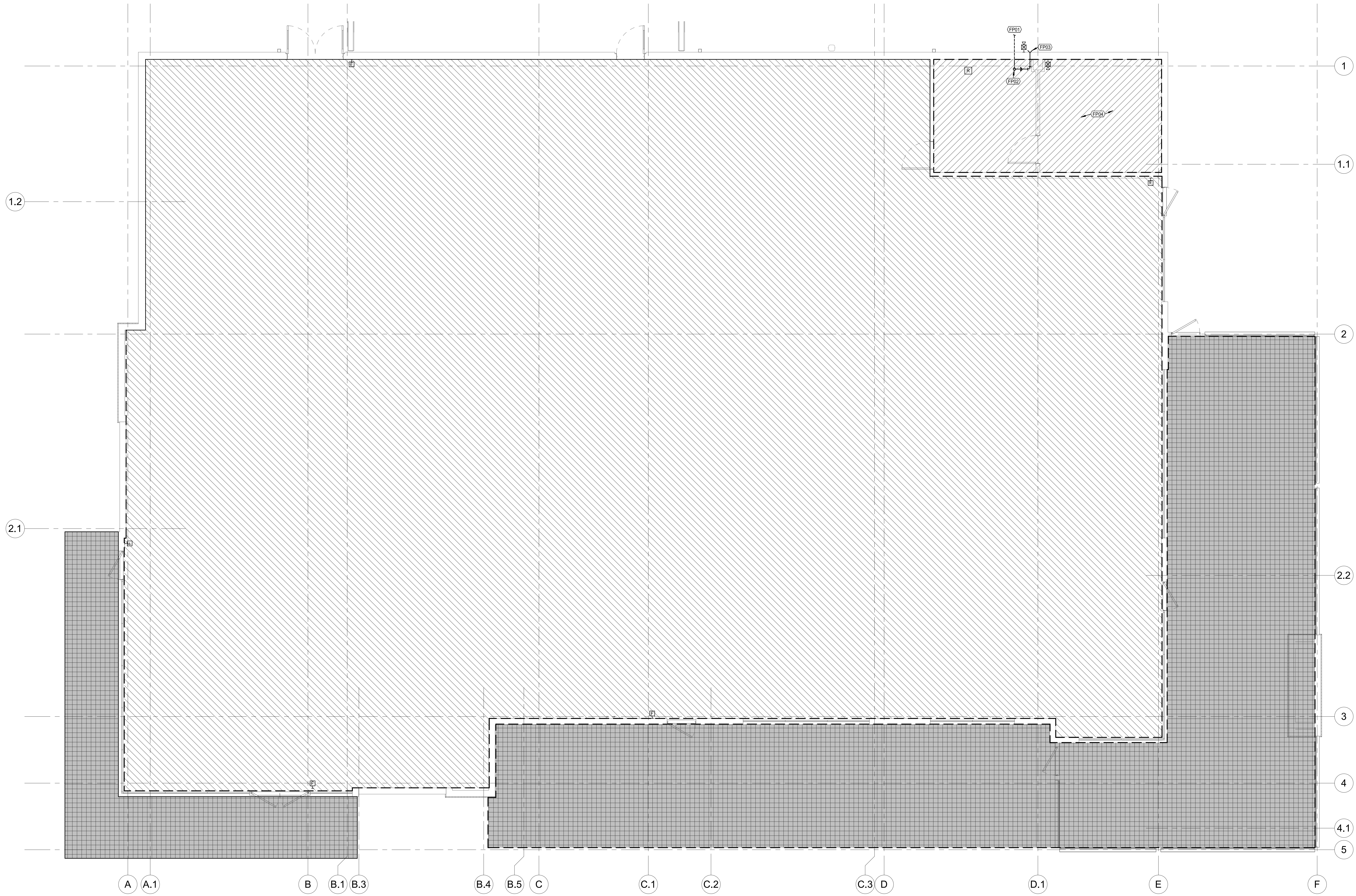
- A. PROVIDE A WET TYPE SPRINKLER SYSTEM THROUGHOUT BUILDING IN COMPLIANCE WITH THE RULES AND REGULATIONS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES, THE OWNER'S INSURANCE COMPANY AND NFPA 13.
- B. FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK REQUIRED FOR STRICT COMPLIANCE WITH CODES AND STANDARDS.
- C. PROVIDE SCHEDULE 40 FOR 2" AND SMALLER WITH THREADED ENDS AND SCHEDULE 10 FOR 1-1/2" AND LARGER WITH ROLL-GROOVED ENDS AND GROOVED JOINTS. ALL PIPING IN AREAS WITH CEILINGS SHALL BE RUN CONCEALED WITH NO EXCEPTIONS UNLESS COORDINATED WITH ARCHITECT AND ENGINEER. PIPE SIZES SHOWN ON PLANS FOR INFORMATION ONLY. VERIFY BY HYDRAULIC CALCULATIONS.
- D. ALL SPRINKLERS IN LAY-IN CEILINGS ARE TO BE CENTERED ±1/2" IN 2'Ø PORTION OF TILE. ALL SPRINKLERS IN DROP-BOARD CEILINGS ARE TO BE CENTERED ±1/2" WITH LIGHT FIXTURES AND ALIGNED WITH ALL OTHER DEVICES IN CEILING IN BOTH DIRECTIONS. COORDINATE WITH ARCHITECT.
- E. FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED AND COORDINATED SHOP DRAWINGS SO AS TO AVOID CONFLICTS IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH REFLECTED CEILING PLAN, DUCTWORK, LAYOUT AND LIGHTING LAYOUT. ALL COORDINATION SHALL TAKE PLACE PRIOR TO INSTALLATION.
- F. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN PERMITS AND CERTIFICATES OF INSPECTIONS RELATIVE TO THIS WORK.
- G. CONTRACTOR SHALL OBTAIN CURRENT FIRE HYDRANT FLOW TEST DATA AND USE FOR SYSTEM HYDRAULIC CALCULATIONS. USE DATA TO DESIGN SYSTEMS ACCORDINGLY BASED ON AVERAGE NUMBERS PLUS 10% SAFETY.
- H. PREPARE AND SUBMIT SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS AS REQUIRED. ALL INFORMATION SHOWN ON FIRE PROTECTION DRAWINGS SHALL BE INCLUDED ON THE SHOP DRAWINGS.
- I. CONTRACTOR TO BE RESPONSIBLE FOR MAKING FINAL COORDINATION WITH STRUCTURE AND ALL OTHER TRADES PRIOR TO SUBMITTING SHOP DRAWINGS. ALL ELEVATIONS OF PIPE MUST BE SHOWN ON SHOP DRAWINGS.
- J. ALL SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. USE DRY SIDEWALL SPRINKLERS OR DRY PIPE SYSTEM FOR VESTIBULES, ALCOVES, TRASH ENCLOSURES, CANOPIES, AND PORCHES.
- K. NFPA 13 - 2016 ED. 7.1.5 A SINGLE AIR VENT WITH A CONNECTION SHALL BE PROVIDED ON EACH WET PIPE SYSTEM. THE AIR VENT SHALL BE LOCATED NEAR A HIGH POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED FROM THAT PORTION OF THE SYSTEM BY ONE OF THE FOLLOWING METHODS: MANUAL VALVE, MINIMUM 1/2" (5MM) SIZE, OR AUTOMATIC AIR VENT.
- L. PROVIDE AUXILIARY DRAINS AS REQUIRED BY NFPA 13. COORDINATE LOCATIONS WITH OWNER. AUXILIARY DRAINS MUST BE SHOWN ON SHOP DRAWINGS.
- M. PROVIDE AUXILIARY DRAINS AS REQUIRED BY NFPA 13. COORDINATE LOCATIONS WITH OWNER. AUXILIARY DRAINS MUST BE SHOWN ON SHOP DRAWINGS.
- N. SPRINKLER SYSTEM SHALL BE TESTED AND DRAINED PER NFPA STANDARDS AND LOCAL AND STATE AUTHORITY HAVING JURISDICTION COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES SHALL BE FORWARDED TO OWNER.
- O. FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH FIRE ALARM PANEL AND SUPERVISION OF NEW SPRINKLER TAMPERS AND FLOW SWITCHES.
- P. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- Q. SPRINKLER HEAD PLACEMENT SHALL BE OUT OF THE SWING AREA OF DOORS TO AVOID CONFLICT WITH TALL DOORS.

**FIRE PROTECTION LEGEND**

- PROVIDE PROPER COVERAGE PER PA 13 AND LOCAL AUTHORITIES, REFER TO REFLECTED CEILING PLANS FOR COORDINATION WITH LIGHTS, DIFFUSERS, EXIT SIGNS, ETC.
- LIGHT HAZARD - PROVIDE PROPER COVERAGE PER NFPA 13 (0.1 GPM PER 1500 SF) PLUS 100 GPM HOSE STREAM ALLOWANCE.
- ORDINARY HAZARD GROUP 1 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.15 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.
- ORDINARY HAZARD GROUP 2 - PROVIDE PROPER COVERAGE PER NFPA 13 (0.2 GPM PER 1500 SF) PLUS 250 GPM HOSE STREAM ALLOWANCE.
- ORDINARY HAZARD GROUP 3 - PROVIDE DRY PENDENT SPRINKLERS FOR ALL WALK-IN COOLERS AND FREEZERS.
- PROVIDE DRY PENDENT CONCEALER-TYPE SPRINKLERS FROM DRY PIPE SYSTEM WITH NITROGEN GENERATOR, DRY SIDEWALL SPRINKLERS, OR UL LISTED ANTI-FREEZE SYSTEM TO PROTECT BENEATH NON-COMBUSTIBLE CANOPY IN ACCORDANCE WITH NFPA 13.

**FLOOR PLAN NOTES**

- FP01 6" UNDERGROUND FIRE LINE TO BUILDING. CONNECT FIVE FEET FROM BUILDING EXTERIOR WALL. SLEEVE EXTERIOR WALL AND PROVIDE THRUST PROTECTION PER NFPA 13.
- FP02 4" SPRINKLER RISER, 6" DOUBLE DETECTOR CHECK BACKFLOW PREVENTER, FLOW AND TAMPER SWITCHES, 2"Ø MAIN DRAIN EXTENDED TO OUTSIDE.
- FP03 SIAMASE FIRE DEPARTMENT CONNECTION. PROVIDE HORN/STROBE ABOVE.
- FP04 DO NOT RUN SPRINKLER PIPING OVER ELECTRICAL EQUIPMENT. MAINTAIN 3' CLEARANCE IN FRONT OF PANELS.



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E: J.P. or Project No. 27.764.00

CLIENT

PROJECT TITLE

**Q39 (SHELL)**  
**LEE'S SUMMIT, MO**  
OLDHAM VILLAGE

PROJECT NUMBER	62910099
APPROVER	Author



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**ISSUES AND REVISIONS**

NUMBER	DATE	REVISION	ORIGINAL ISSUE

**FLOOR PLAN - FIRE PROTECTION**

**FP100**