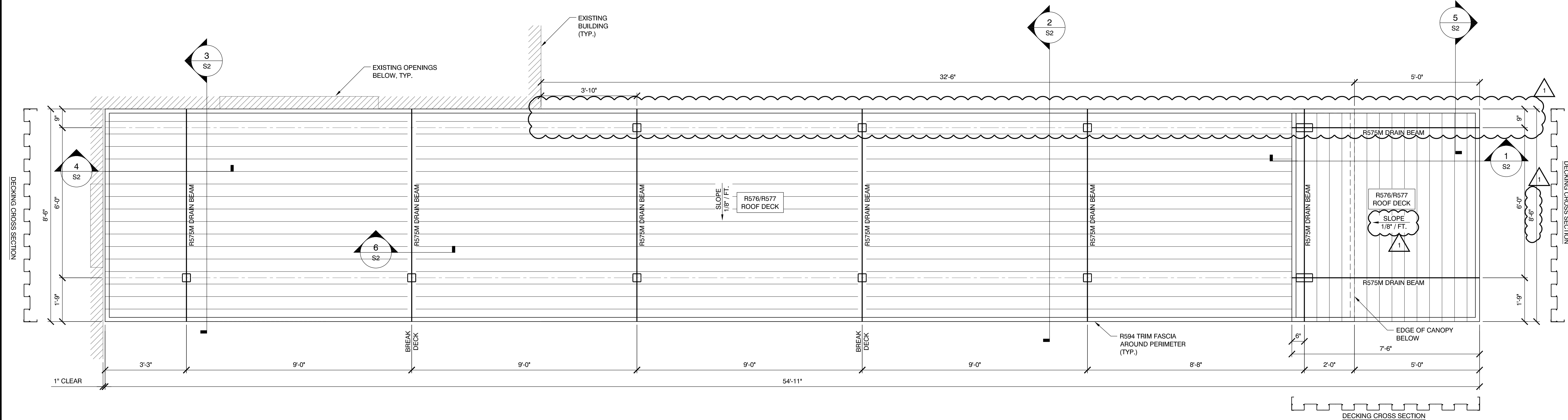
**CANOPY FOUNDATION PLAN**

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

QUANTITY = (1)

**CANOPY FRAMING PLAN**

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

QUANTITY = (1)

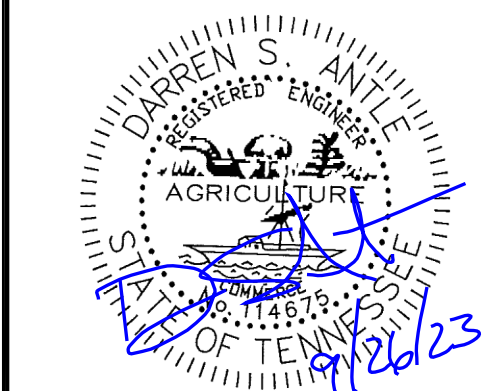
**MBI**

MBI COMPANIES INC.  
299 N. WEISGARBER ROAD  
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PHONE: (865) 584-0999  
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SEAL



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**PROJECT INFORMATION**

PROJECT:

**BROADWAY BAPTIST CHURCH**

PROJECT ADDRESS:

2329 E. BROADWAY AVENUE  
MARYVILLE, TN 37804

PROJECT NO.: 230006.017

**ACTIVE DESIGN PHASE**

- ☐ FOR REVIEW ONLY  
☐ FOR PERMITTING ONLY  
☐ SCHEMATIC DESIGN  
☐ DESIGN DEVELOPMENT  
☐ CONSTRUCTION BIDDING  
☐ CONSTRUCTION DOCUMENTS  
☒ FOR APPROVAL

**REVISION INFORMATION**

NO.	DATE	DESCRIPTION
1	9/26/2023	OWNER COMMENTS

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G.C. TO CONFIRM ALL  
CLOUDED ITEMS.  
ITEMS NOT VERIFIED  
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**SHEET INFORMATION**

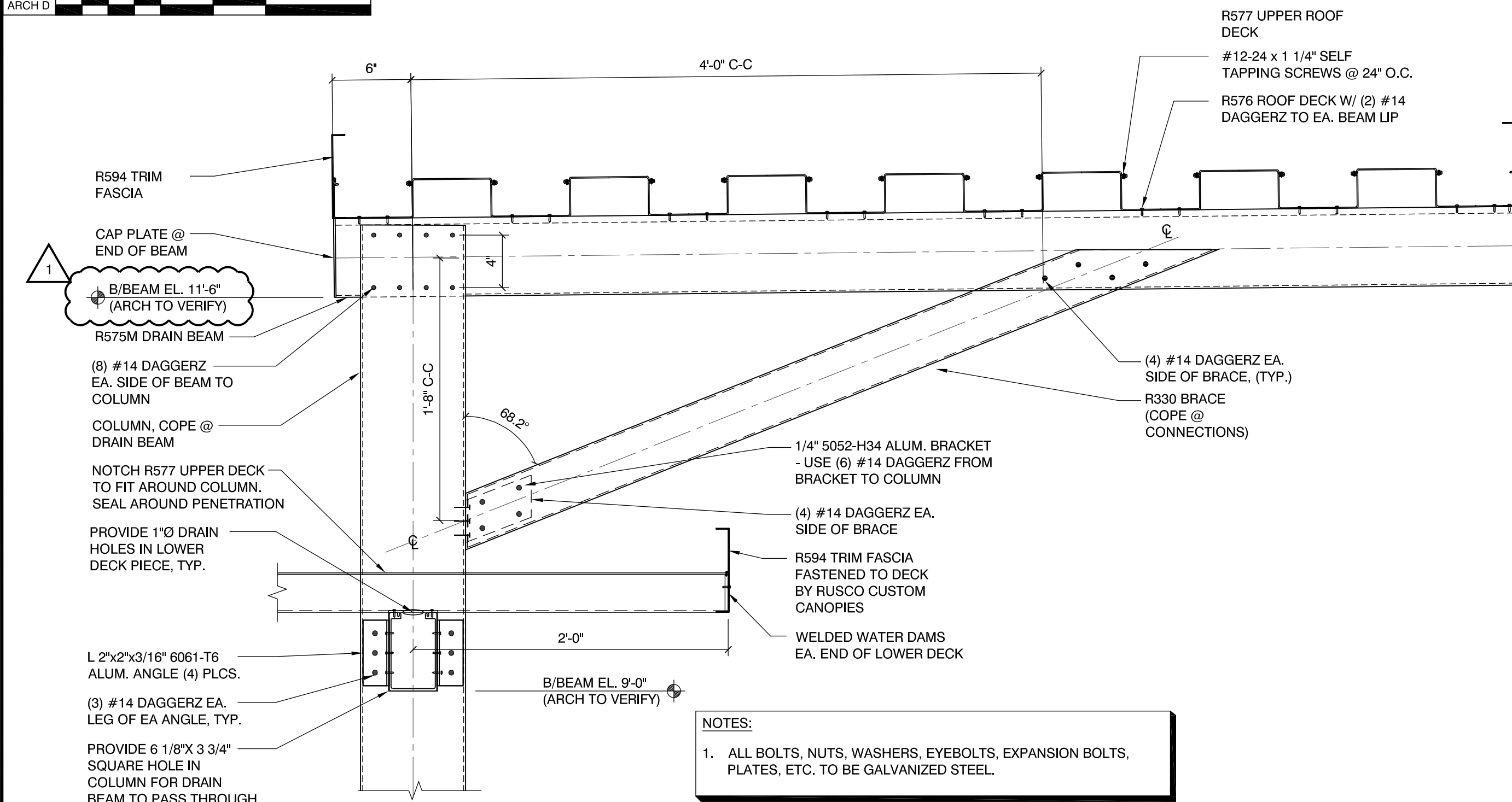
SHEET ISSUED: 09/06/2023  
DESIGNED BY: Z.J.B.  
DRAWN BY: Z.J.B.  
REVIEWED BY: D.S.A.  
SHEET TITLE:

**CANOPY FRAMING  
& FOUNDATION PLAN**

SHEET NO.:

**S1**

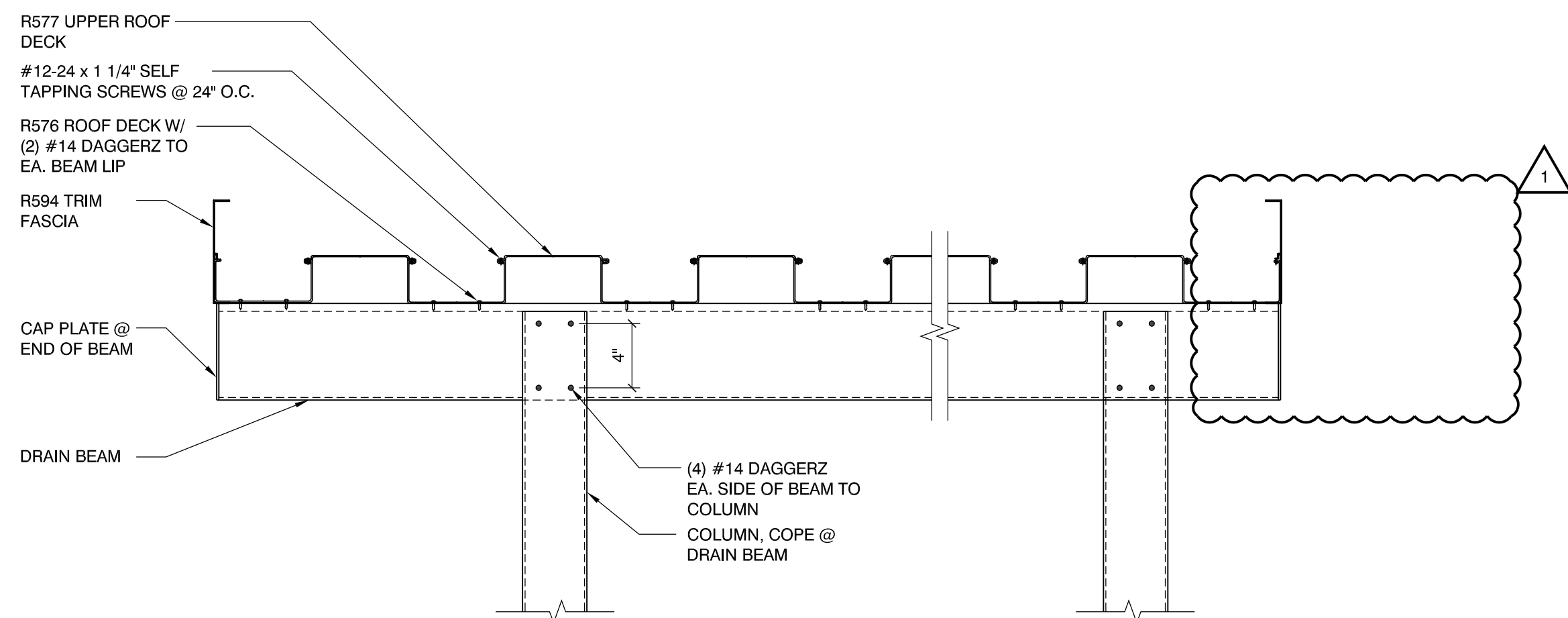




## CONNECTION DETAIL

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

1



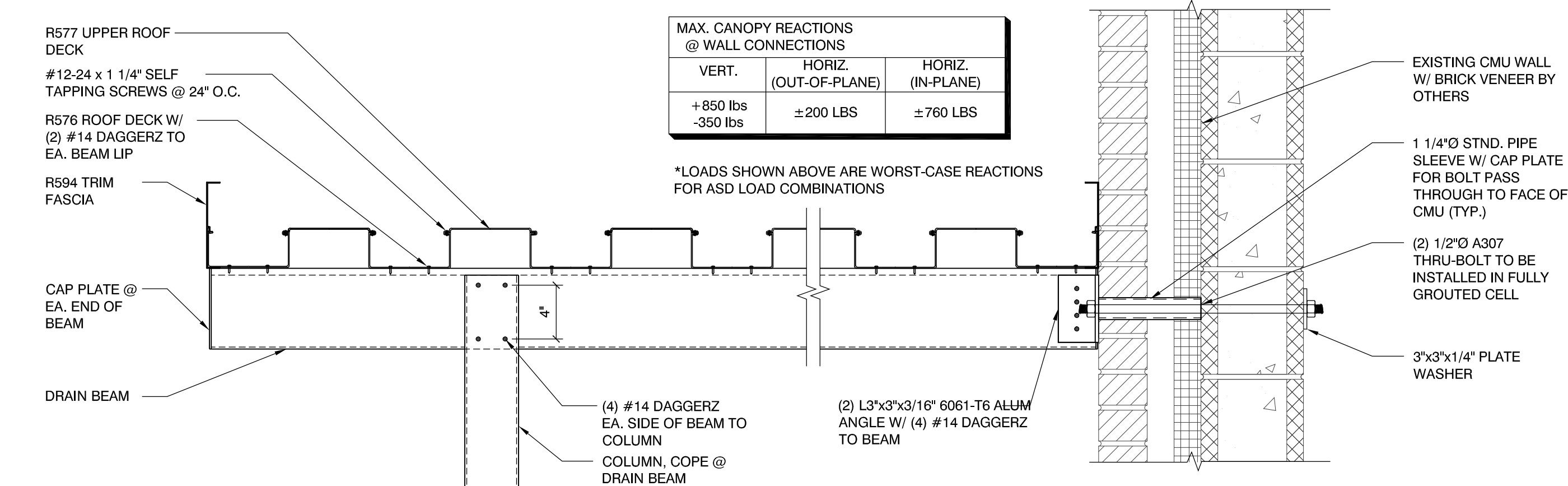
## CONNECTION DETAIL

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

2

**NOTES:**

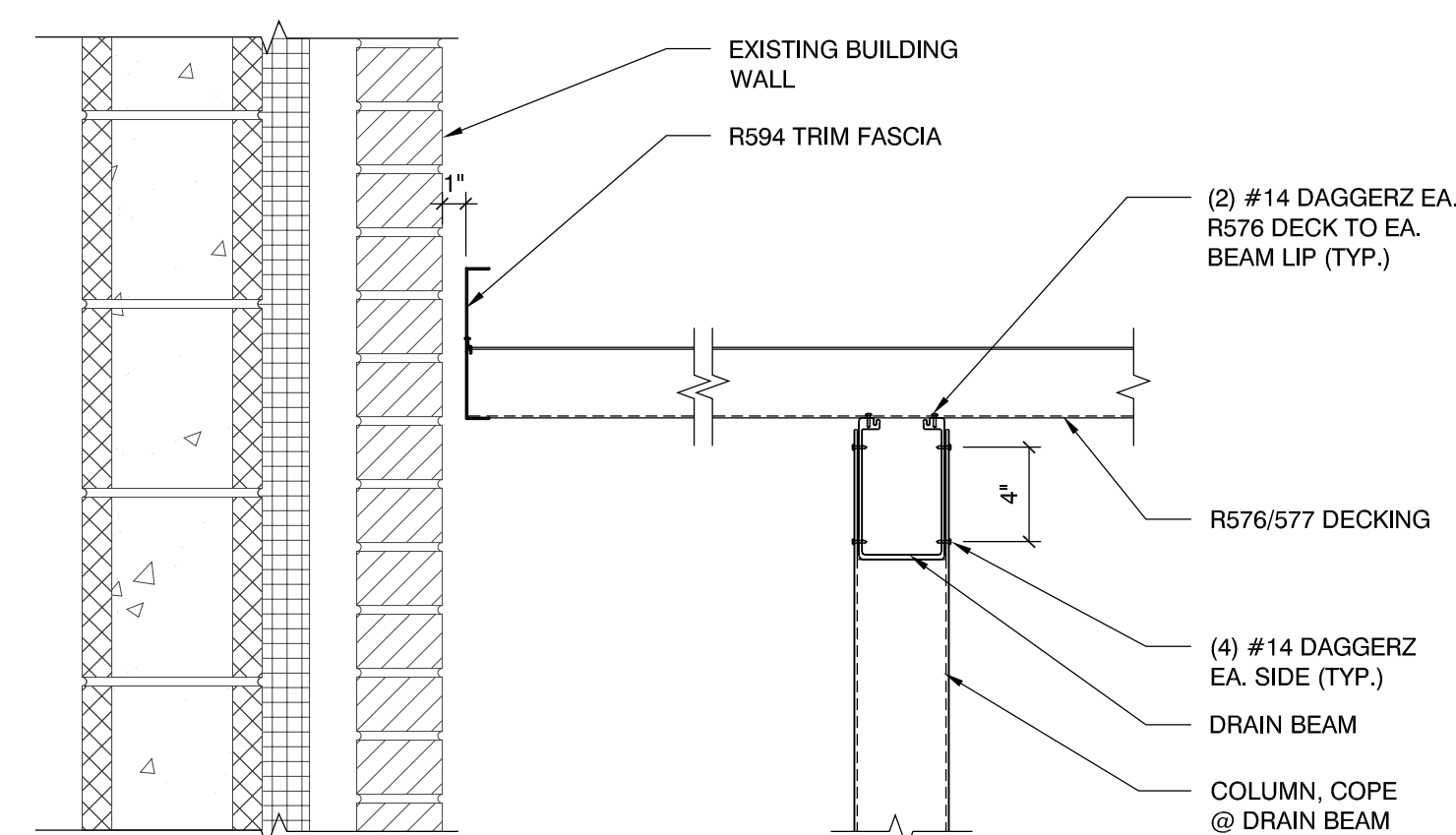
- THIS DESIGN FOR ANCHORAGE TO EXISTING STRUCTURE ONLY. BUILDING DESIGNER TO VERIFY ADEQUACY OF STRUCTURE TO RESIST ADDITIONAL LOADING SHOWN. THIS ENGINEER NOT RESPONSIBLE FOR THE EXISTING STRUCTURE.
- ALL BOLTS, NUTS, WASHERS, EYEBOLTS, EXPANSION BOLTS, PLATES, ETC. TO BE GALVANIZED STEEL.
- E.O.R. TO REVIEW CONNECTION AND VERIFY STRUCTURAL ADEQUACY. PIPE SLEEVE WILL IMPACT LOAD ON VENEER.



## CONNECTION DETAIL

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

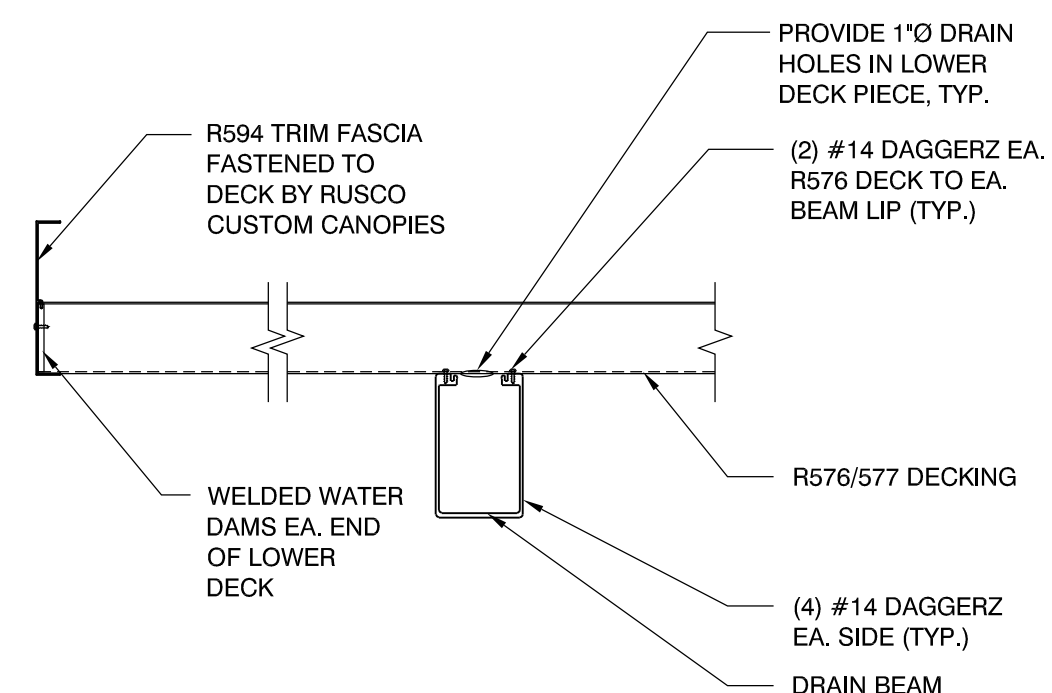
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## CONNECTION DETAIL

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

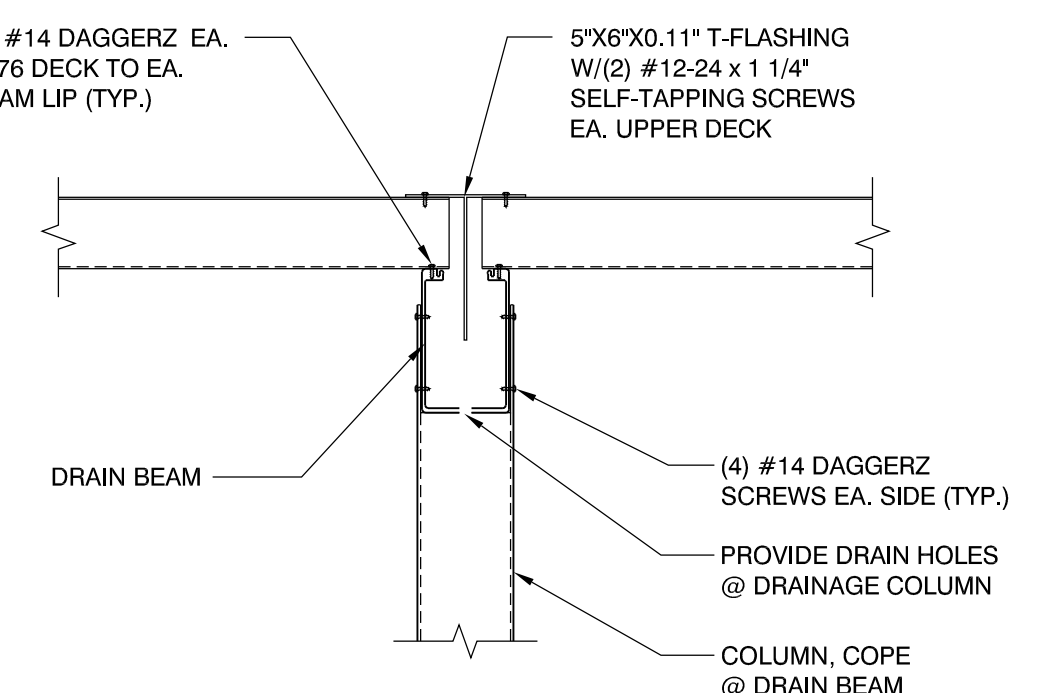
4



## TYP. DECK TO BEAM CONNECTION DETAIL

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

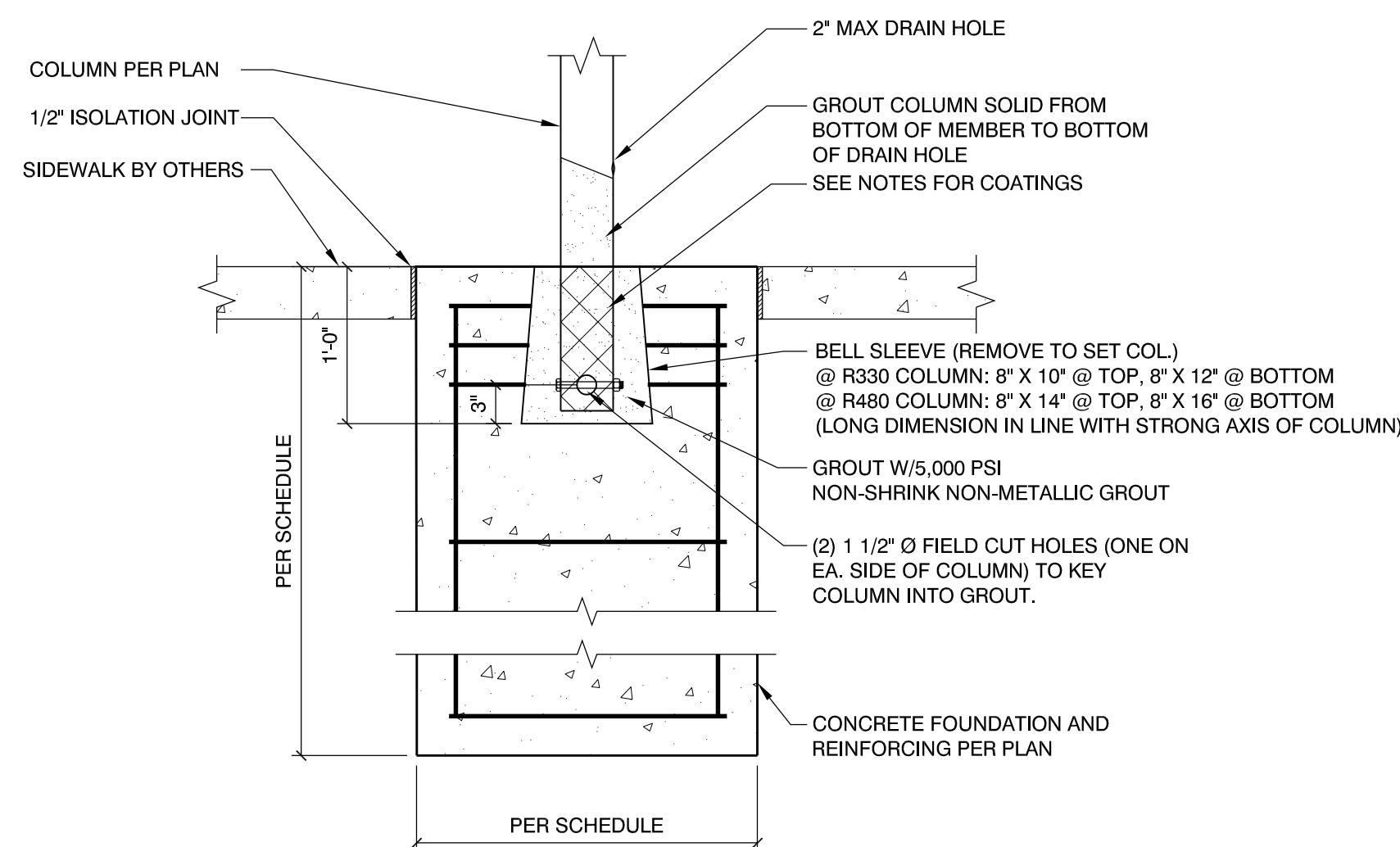
5



## CONNECTION DETAIL

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

6



## FOOTING DETAIL

SCALE: 1" = 1'-0"

7

## STRUCTURAL NOTES

### General Notes:

- The contractor is responsible for bracing the structure prior to the completion of roof diaphragm and wall/column connections.
- The General Contractor shall verify all dimensions and conditions prior to installation. This Engineer shall be notified of any discrepancies.
- The contractor is responsible for the means and methods of construction in regards to job site safety.
- Submit written request to the Structural Engineer for approval of any proposed change to the requirements of the contract documents. Splicing, cutting, notching or other alterations to structural members are not permitted without written authorization of the structural engineer. Any unauthorized deviation from the contract documents, and correction thereof, is the responsibility of the contractor.

DESIGN LOADS TABLE 2018 INTERNATIONAL BUILDING CODE:			
<b>GRAVITY LOADS:</b>			
ROOF DEAD LOAD		3 PSF	
ROOF LIVE LOAD		20 PSF	
<b>SNOW LOADS:</b>			
GROUND SNOW LOAD, Pg		10 PSF	
THERMAL FACTOR, Ct		1.2	
SNOW EXPOSURE FACTOR, Ce		1.0	
IMPORTANCE FACTOR		1.1	
BALANCED ROOF SNOW LOAD, Ps		9.2 PSF	
DRIFT SURCHARGE LOAD, Pd		53.5 PSF	
DRIFT WIDTH		14 FT	
<b>WIND DESIGN LOADS:</b>			
WIND SPEED	Vult = 112 MPH (3 SECOND GUST)		
	Vasd = 87 MPH (3 SECOND GUST)		
<b>RISK CATEGORY</b>			
WIND EXPOSURE		III	
INTERNAL PRESSURE COEFFICIENT		C	
ROOF C&C PRESSURES: (ASD LEVEL)			
AREA < 9 S.F.		+29.9/-45.4 PSF	
9 S.F. < AREA < 36 S.F.		+22.4/-22.8 PSF	
AREA > 36 S.F.		+14.9/-15.1 PSF	
<b>SEISMIC DATA:</b> WIND CONTROLLED			

### Aluminum Notes:

- Structural aluminum to meet strengths and specifications set by the Aluminum Association's edition of "Aluminum Standards and Data."
- Where aluminum alloy parts are in contact with steel or other dissimilar metals, the steel surfaces to be placed in contact with the uncoated aluminum shall be painted with good quality non lead containing priming paint, such as zinc molybdate, alkyl type primer in accordance with federal specification TT-P-645B, followed by two coats of paint consisting of 2 lbs. of aluminum paste pigment (ASTM specification D962-81, type 2, class B) per gallon of varnish meeting federal specification TT-V-81, type II, or equivalent.
- Fasteners to be treated with Delta-Protekt and Delta Seal, u.n.o.
- Coat all aluminum surfaces to be in contact w/ concrete with a bituminous paint or a clear alkali-resistant lacquer.

### Foundation & Concrete Notes:

- Concrete 28 Day Strength shall be as follows:
  - Footings 3,000 psi (2500 used in design)
- Foundation responsibility by others.
- All concrete and reinforcing steel shall conform to ACI 318 and ACI 301 latest edition, and ASTM A615-60. Contractor to have copies of the ACI documents at the job site during construction.
- Fly ash, meeting ASTM C-648 Class C or Class F may be used to replace up to 25% of Portland Cement. Contractor and supplier shall coordinate to ensure that required set times for concrete are not adversely affected by use of fly ash. Contractor and all concrete subcontractors shall have experience with handling, placing and finishing concrete with fly ash.
- Grout used shall be cement based, non-shrink grout. The grout shall exhibit no shrinkage in accordance with ASTM C827, "Test Method for Early Volume Change of Cementitious Mixtures" and shall have a minimum 28-day compressive strength of 5000 psi when tested in accordance with ASTM C-109, "Test Method for Compressive Strength of Hydraulic Cement Mortars".

## SUPERDECK CANOPY COMPONENTS

R577 ROOF DECK UPPER PIECE 6.918"x0.323"x0.09" EXTRUDED ALUMINUM 6063-T6 ALLOY	R576 ROOF DECK LOWER PIECE 6.078"x2.675"x0.078" EXTRUDED ALUMINUM 6063-T6 ALLOY
R575M BEAM 6"x3.625"x0.19" EXTRUDED ALUMINUM 6063-T6 ALLOY	R594 END TRIM FASCIA 6.404"x1"x0.07" EXTRUDED ALUMINUM 6063-T6 ALLOY
R330 COLUMN/BRACE 4"x4"x0.125" EXTRUDED ALUMINUM 6063-T6 ALLOY	R480 COLUMN 4"x8"x0.188" EXTRUDED ALUMINUM 6063-T6 ALLOY

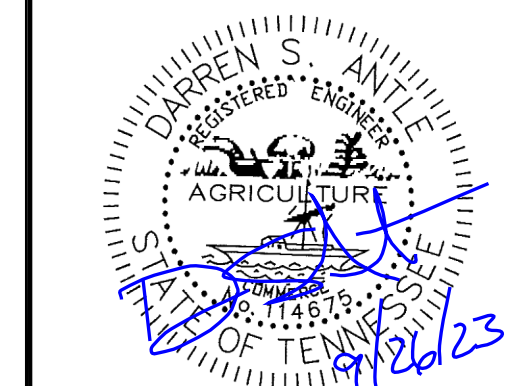
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DESIGNED BY: Z.J.B.  
DRAWN BY: Z.J.B.  
REVIEWED BY: D.S.A.  
SHEET TITLE:

## CANOPY DETAILS AND NOTES

SHEET NO.:

S2