

POLY CANYON OBSERVATION DECK

A. GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

2. DO NOT SCALE THE DRAWINGS.

3. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES AND THE TYPICAL DETAILS.

4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: ASCE 7-10, NDS 2015, ACI 316, THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE, AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND IN THE PROJECT SPECIFICATIONS.

7. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.

8. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

9. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.

10. ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS PROJECT.

11. CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTH WORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, UTILITIES, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

12. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FRAMED FLOORS OR ROOFS. THE CONSTRUCTION MATERIAL LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD 50 POUNDS PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

14. ARCHITECT'S/ENGINEER'S REVIEW OF THE SHOP DRAWINGS SHALL NOT BE CONSTRUED AS AN AUTHORIZATION TO DEViate FROM THE CONTRACT DOCUMENTS.

15. DESIGN LIVE LOADS:

16. WIND LOAD CRITERIA:
BASIC WIND SPEED: 100 ft/s
WIND IMPORTANCE FACTOR $I_w = 1.0$
WIND EXPOSURE: C

17. SEISMIC DESIGN CRITERIA:
RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR: $I_s = 1.0$
SPECTRAL RESPONSE ACCELERATIONS: $S_s = 1.118g$
 $S_1 = 0.426g$
 $S_{0.5} = 0.785g$
 $S_{0.1} = 0.447g$

SPECTRAL RESPONSE COEFFICIENTS:

SITE CLASS: D
SEISMIC DESIGN CATEGORY:
SEISMIC FORCE RESISTING SYSTEM(S): BRACING
SEISMIC RESPONSE COEFFICIENT: $C_s =$
RESPONSE MODIFICATION FACTOR(S): $R =$
ANALYSIS PROCEDURE:
DESIGN BASE SHEAR: 2.0

B. REVIEW OF SPECIALTY ITEMS AND PRE-ENGINEERED ELEMENTS

1. SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS, AND DESIGN/BUILD ELEMENTS ARE THOSE ITEMS WHICH ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE CONTRACTOR, THE MANUFACTURER, SUPPLIER, OR INSTALLER. SEE CONCRETE AND MASONRY NOTES FOR MIX DESIGN REQUIREMENTS.

2. SUBMITTAL REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD OR THE BUILDING DEPARTMENT:

A. STRUCTURAL PRECAST CONCRETE FOOTINGS.
B. TIMBER JOISTS AND GIRDERS.
C. STAIRS, HANDRAILS, AND GUARDRAILS.
E. WOOD BRACES.

THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ANCILLARY MEMBERS INCLUDING BUT NOT LIMITED TO BEAMS, COLUMNS, HANGERS, FOOTINGS, STIFFENERS, GUSSETS, KICKERS, BRACES, ETC. AND INTENDED CONNECTIONS.

3. SUBMITTAL SHALL INCLUDE:

A. CALCULATIONS, PREPARED BY A LICENSED ENGINEER LAWFULLY ELIGIBLE TO DESIGN THE ELEMENT OR COMPONENT (THE SPECIALTY ENGINEER) SEALED IN ACCORDANCE WITH STATE LAW.

B. A DIAGRAM SHOWING LOAD MAGNITUDES AND LOCATIONS, SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS - THAT ARE APPLIED TO THE PRIMARY STRUCTURE, PREPARED BY THE SPECIALTY ENGINEER AND SEALED IN ACCORDANCE WITH STATE LAW.
C. ERECTION OR DESIGN DRAWINGS AS NECESSARY TO DESCRIBE THE SYSTEM OR COMPONENT AND ITS CONNECTION TO THE PRIMARY STRUCTURE WITH THE SPECIALTY ENGINEER'S SHOP DRAWING STAMP OR SEAL, AS IS APPROPRIATE, THE SHOP DRAWING STAMP OF THE ENGINEER, IF ANY, RESPONSIBLE FOR SPECIFYING THE ITEM, AND THE ARCHITECT'S STAMP INDICATING HIS REVIEW.

4. SUBMIT ONE WET SEALED COPY, AND ADDITIONAL COPIES AS NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTAL CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS IS NOT ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.

5. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING DETERMINATIONS:

A. NECESSARY APPROVALS HAVE BEEN OBTAINED.
B. THE DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED.
C. THE LOAD CRITERIA IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND CURRENT BUILDING CODE REQUIREMENTS.
D. THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY DESIGN.
E. THE BASE STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOSED LOADS.

6. THE STRUCTURAL ENGINEER OF RECORD WILL RELY UPON THE SPECIALTY ENGINEER'S SEAL AS CERTIFICATION THAT THE ITEMS DESIGNED BY THE SPECIALTY ENGINEER CONFORM TO THE CRITERIA SET FORTH IN THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS INCORPORATED THEREIN BY REFERENCE.

7. IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE LOAD ALLOWANCE PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD THE SUBMITTAL WILL BE REJECTED.

8. ONLY AT THE CLIENT'S WRITTEN DIRECTION WILL MODIFICATIONS TO THE BASE STRUCTURE TO ACCOMMODATE THE SPECIALTY ITEMS BE MADE BY THE STRUCTURAL ENGINEER OF RECORD.

P. WOOD

1. FRAMING LUMBER SHALL BE REDWOOD NO. 2 GRADE, COLUMNS SHALL BE REDWOOD SELECT STRCTURAL GRADE. MAXIMUM ALLOWABLE MOISTURE CONTENT SHALL BE 19% UNLESS OTHERWISE NOTED.

2. ALL PLYWOOD SHALL BE CC OR CD CONFORMING TO PRODUCT STANDARD PS 1.

3. ALL BOLTS SHALL CONFORM TO ASTM A307. BOLT HOLES SHALL BE 1/16 IN. MAXIMUM LARGER THAN THE BOLT SIZE. RETIGHTEN ALL NUTS PRIOR TO CLOSING IN.

4. STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD.

8. DO NOT NOTCH JOISTS, RAFTERS OR BEAMS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN STRUCTURAL ENGINEERS' APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED. HOLES THROUGH SILLS, PLATES, STUDS AND DOUBLE PLATES IN INTERIOR, BEARING AND SHEAR WALLS SHALL NOT EXCEED 1/3 THE PLATE WIDTH. USE BORED HOLES LOCATED IN THE CENTER OF THE STUD OR PLATE.

11. UNLESS NOTED OTHERWISE, PRE-MANUFACTURED FRAMING CONNECTORS CALLED FOR ON THE DRAWINGS SHALL BE SIMPSON STRONG-TIE CONNECTORS, OR APPROVED EQUAL.

U. STRUCTURAL OBSERVATIONS

1. THE ENGINEER OF RECORD REQUIRES STRUCTURAL OBSERVATION AT STAGES OF CONSTRUCTION NOTED BELOW. THE OWNER SHALL EMPLOY THE ENGINEER OF RECORD RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1704.5 OF THE 2013 CBC.

2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 48 HOURS BEFORE COMPLETION OR COVERING UP THE FOLLOWING STAGES OF CONSTRUCTION:

A. FOUNDATION REINFORCING PLACEMENT
B. ROUGH FRAMING AND CONNECTION, PRIOR TO BEING COVERED BY FINISHES

SYMBOLS

CARRIAGE BOLT	CB
CONCRETE	CONC
HURRICANE TIE	HT
LOCK WASHER	LW
NUT	NT
PRESSURE TREATED	PT
WASHER	WS

SHEETS

NAME	NUMBER
TITLE SHEET	S1.0
FOUNDATION PLAN	S2.0
FRAMING PLAN	S2.1
Roof Framing Plan	S2.2
Elevation	S2.3
Bench Details	S3.0
DETAILS	S4.0
DETAILS	S4.1



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EMIR KULJANCIC

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OBSERVATION DECK

CALIFORNIA POLYTECHNIC
STATE UNIVERSITY

SAN LUIS OBISPO
CALIFORNIA 93407

02	4/16/2018	50% CD
01	10/15/2017	15% CD
NO.	DATE	DESCRIPTION

PROJECT NO: #####

ISSUED BY: CAED

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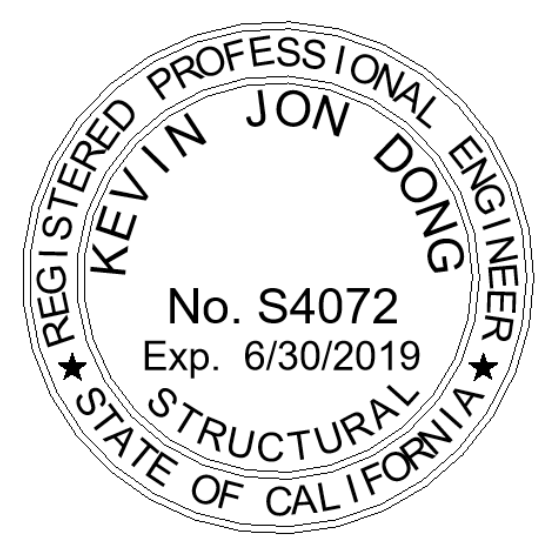
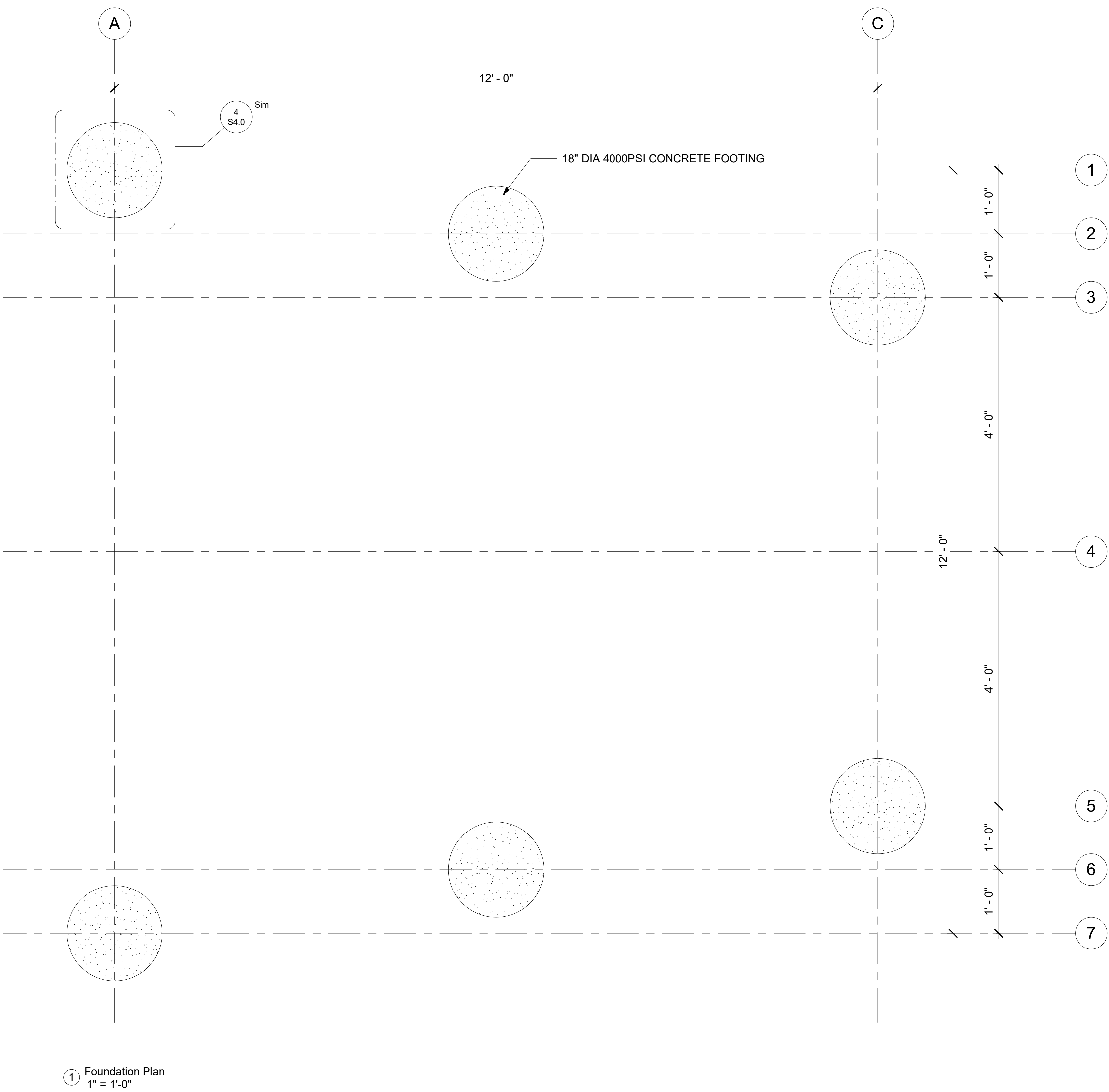
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TITLE: TITLE SHEET

SHEET NO.

S1.0

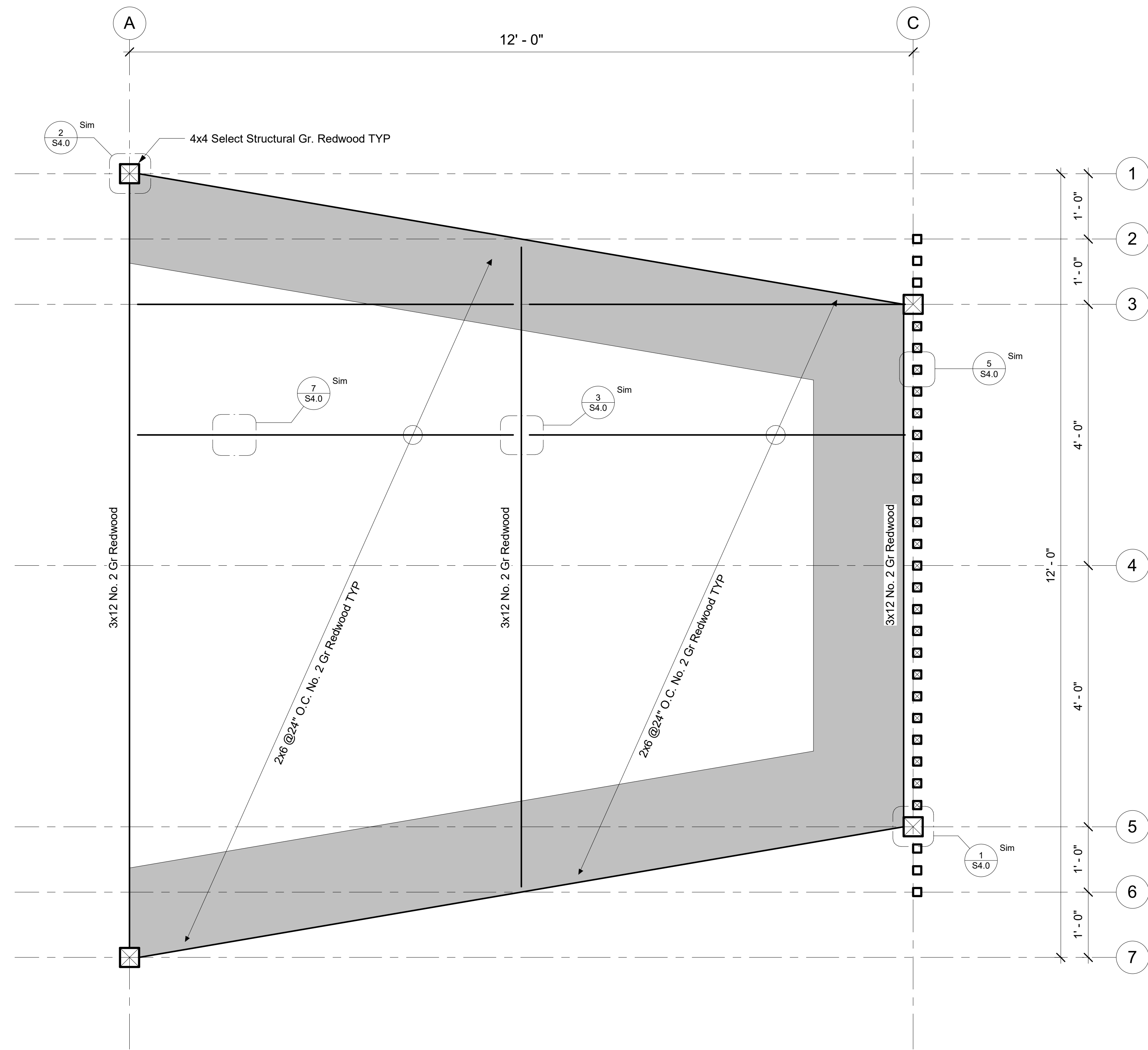
SCALE:



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PROJECT NO:		####
ISSUED BY:		CAED
DRAWN BY:		
CHECKED BY: KEVIN DONG		
TITLE: FOUNDATION PLAN		
SHEET NO.		
S2.0		
SCALE:		1" = 1'-0"



1 Floor Framing Plan
1" = 1'-0"

REFERENCE NOTES:

1. BENCH GRAYED OUT FOR CLARITY. SEE S4.2 FOR BENCH DETAILS.

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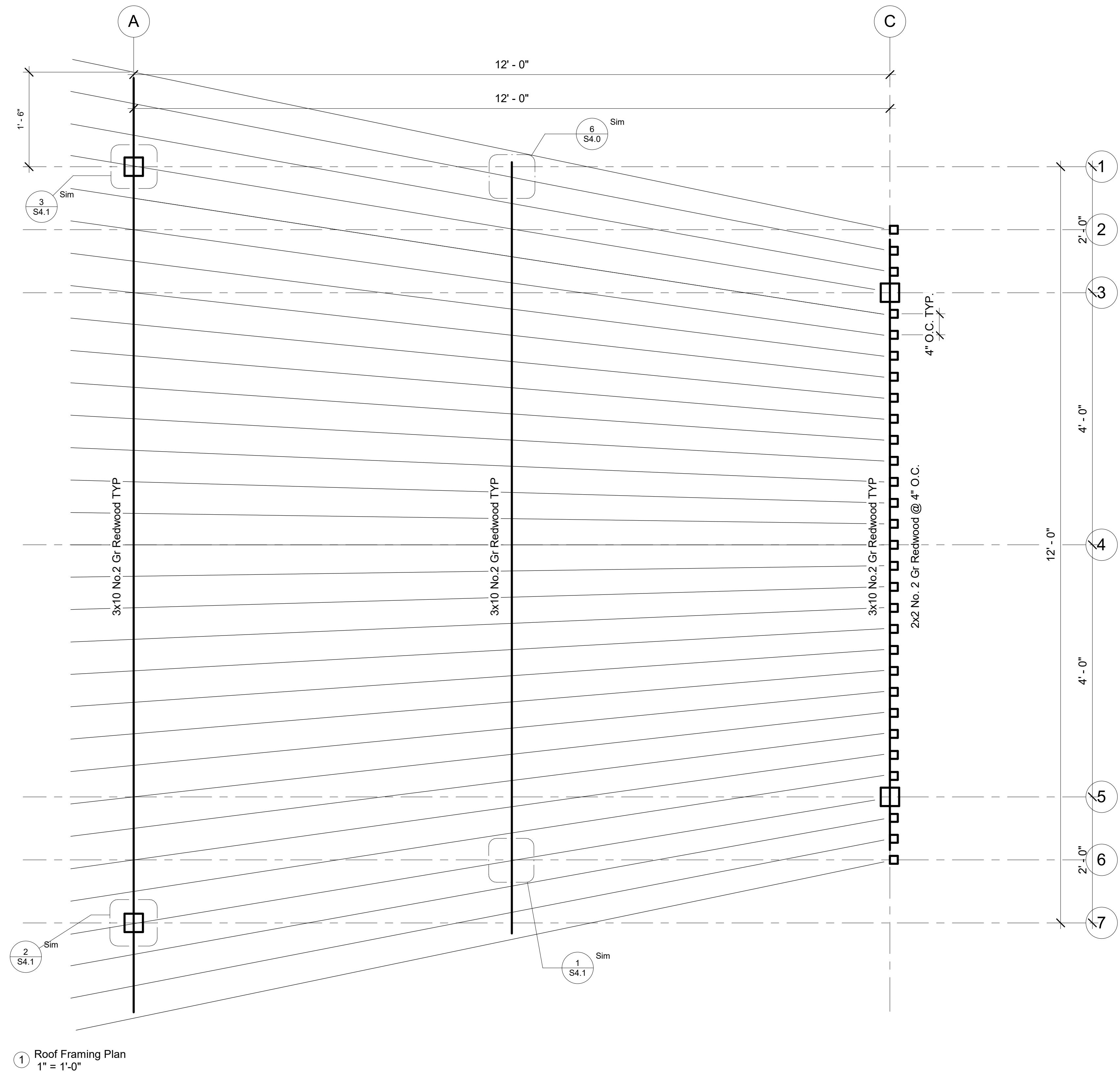
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TITLE: FRAMING PLAN

SHEET NO.

S2.1

SCALE: 1" = 1'-0"



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PROJECT NO: #####

ISSUED BY: CAED

DRAWN BY:

CHECKED BY: KEVIN DONG

TITLE: Roof Framing Plan


SHEET NO.

S2.2

SCALE: 1" = 1'-0"

CAL POLY

Construction Management

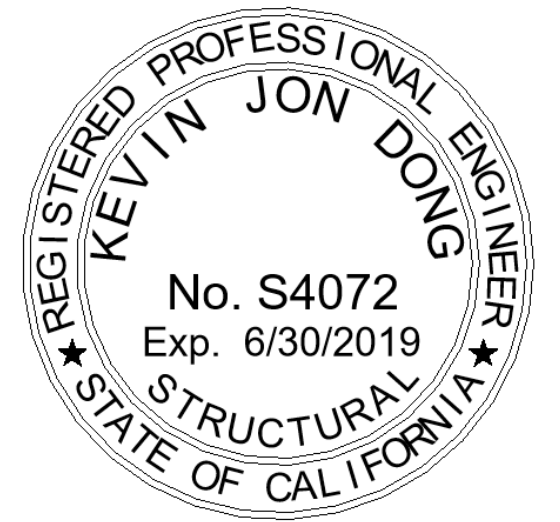


ARCE

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SIMPSON

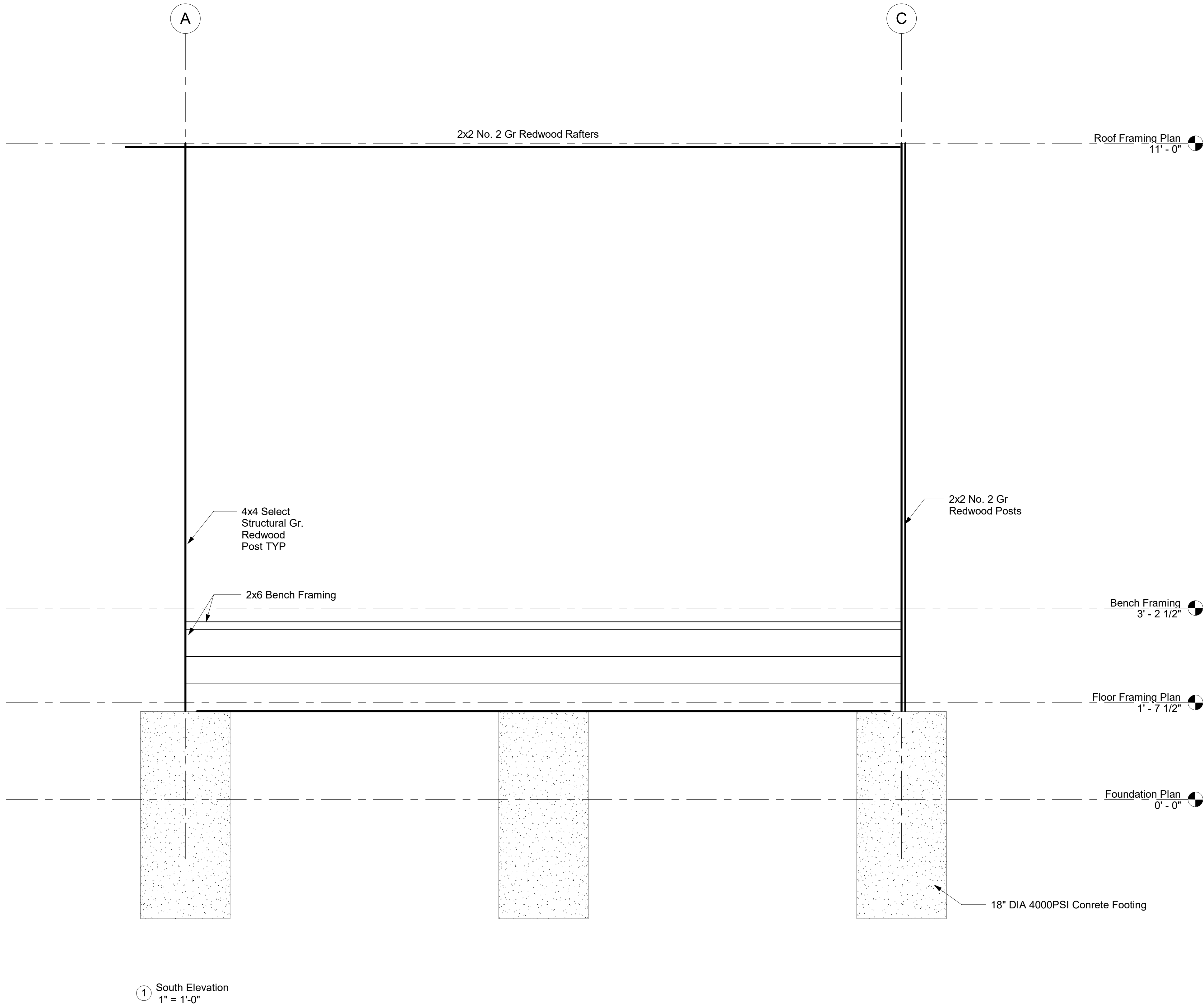
Strong-Tie



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CALIFORNIA POLYTECHNIC STATE UNIVERSTY		
SAN LUIS OBISPO CALIFORNIA 93407		

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NO.	DATE	DESCRIPTION

PROJECT NO:		####
ISSUED BY:		CAED
DRAWN BY:		
CHECKED BY:		KEVIN DONG
TITLE:		Elevation
SHEET NO.		S2.3
SCALE:		1" = 1'-0"



ENGINEER SEAL:[illegible]

PROJECT:

Poly Canyon Observation Deck

California
Polytechnic State
University

San Luis Obispo,
California

Senior Project
Advisor: Kevin Dong

DRAWN BY: Emir Kuljancic &
Sitora Vaxidova

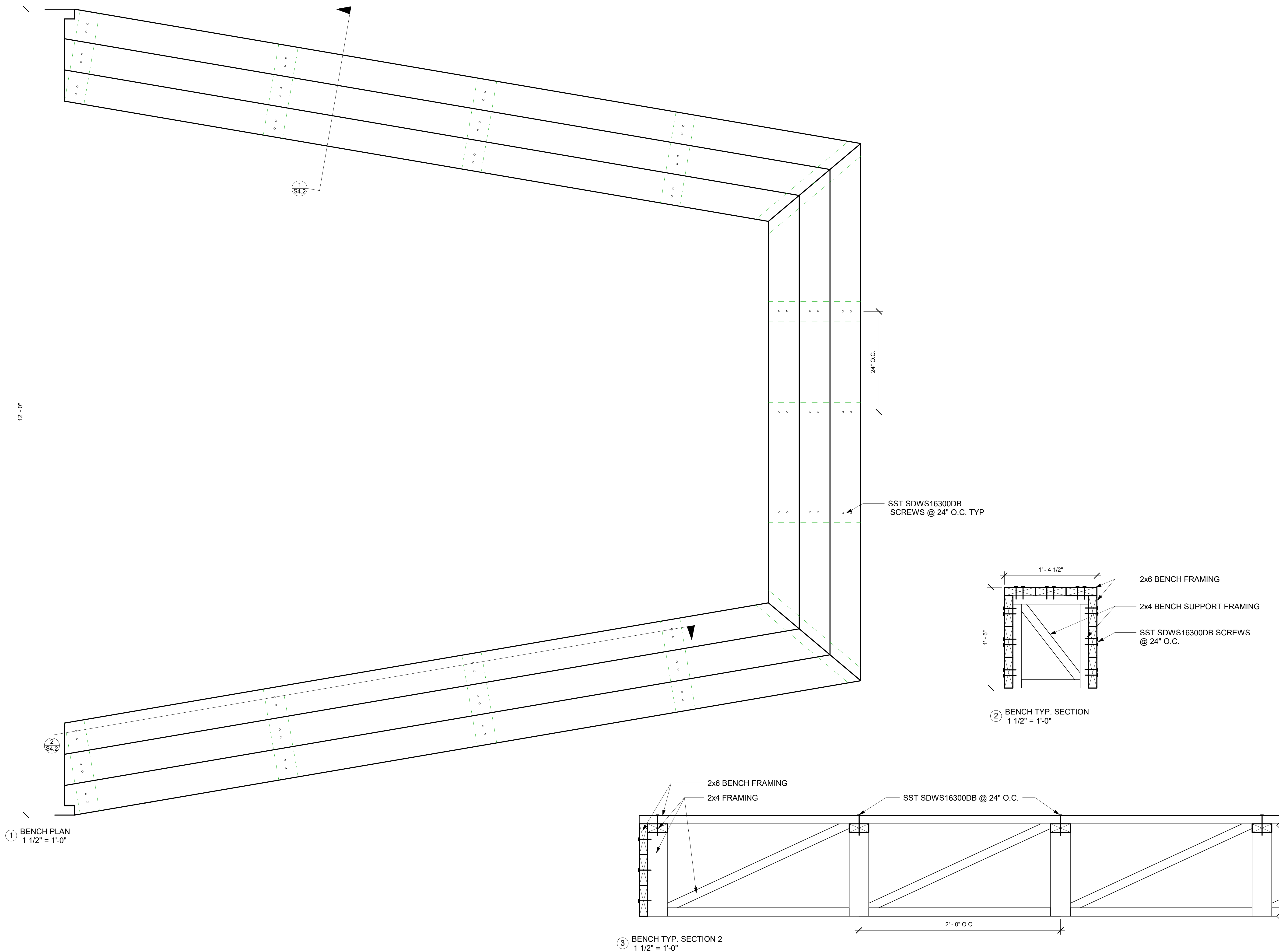
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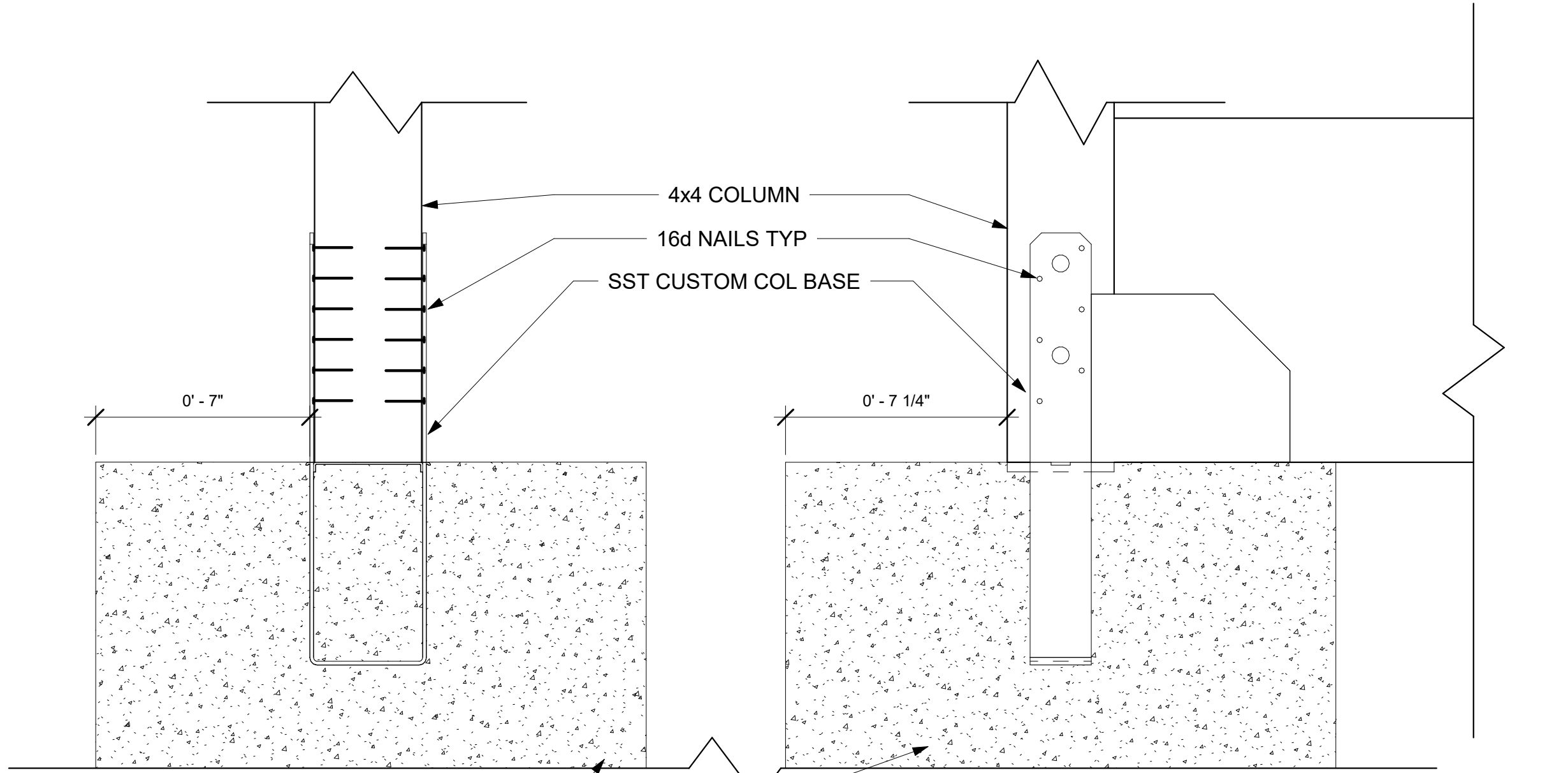
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TITLE: Bench Details

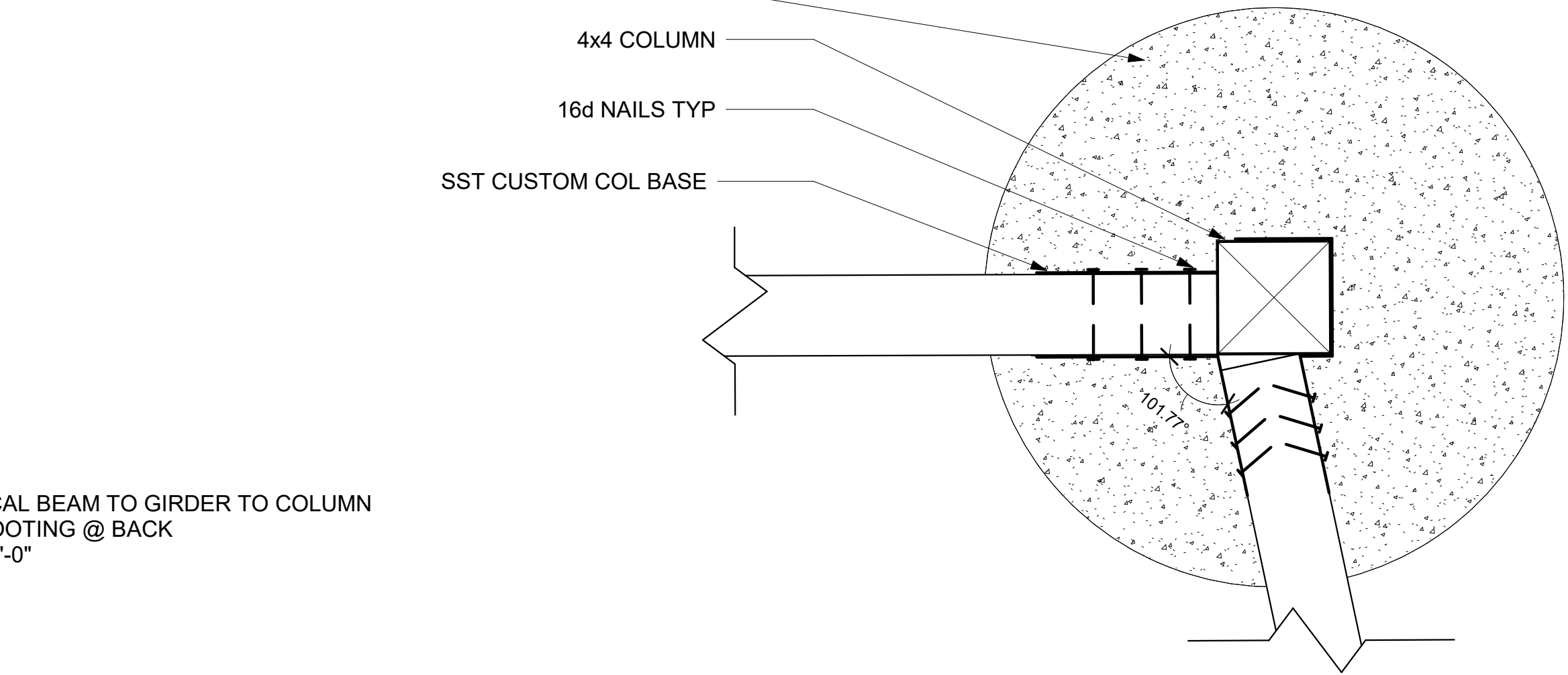
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S3.0

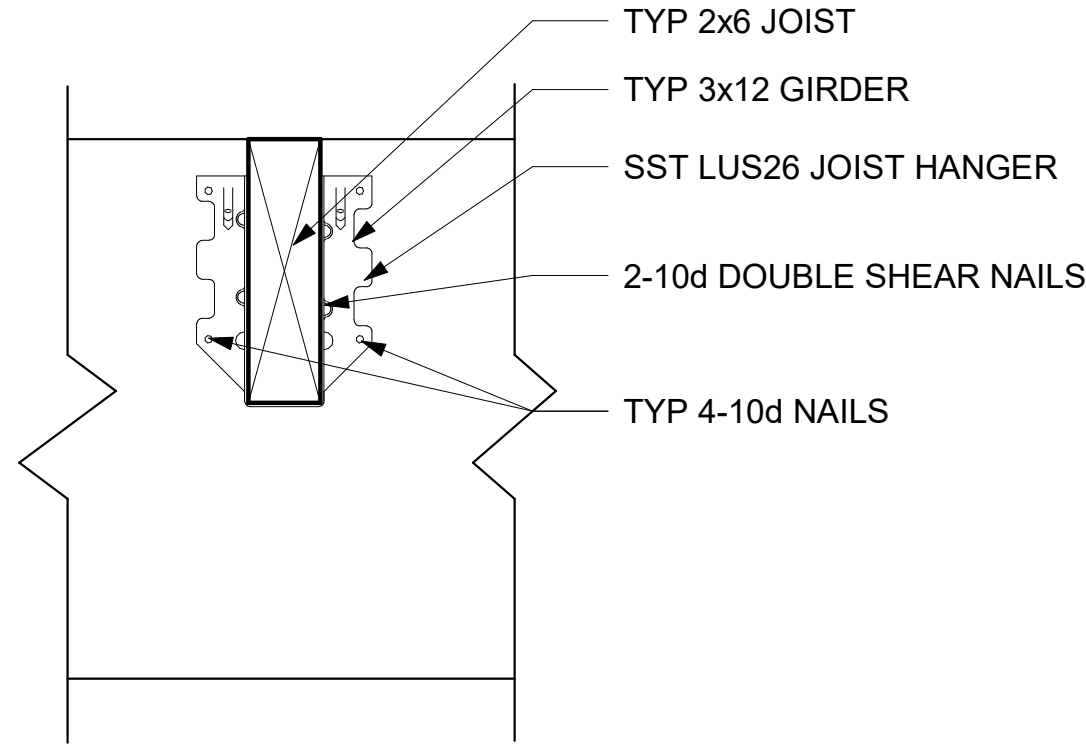
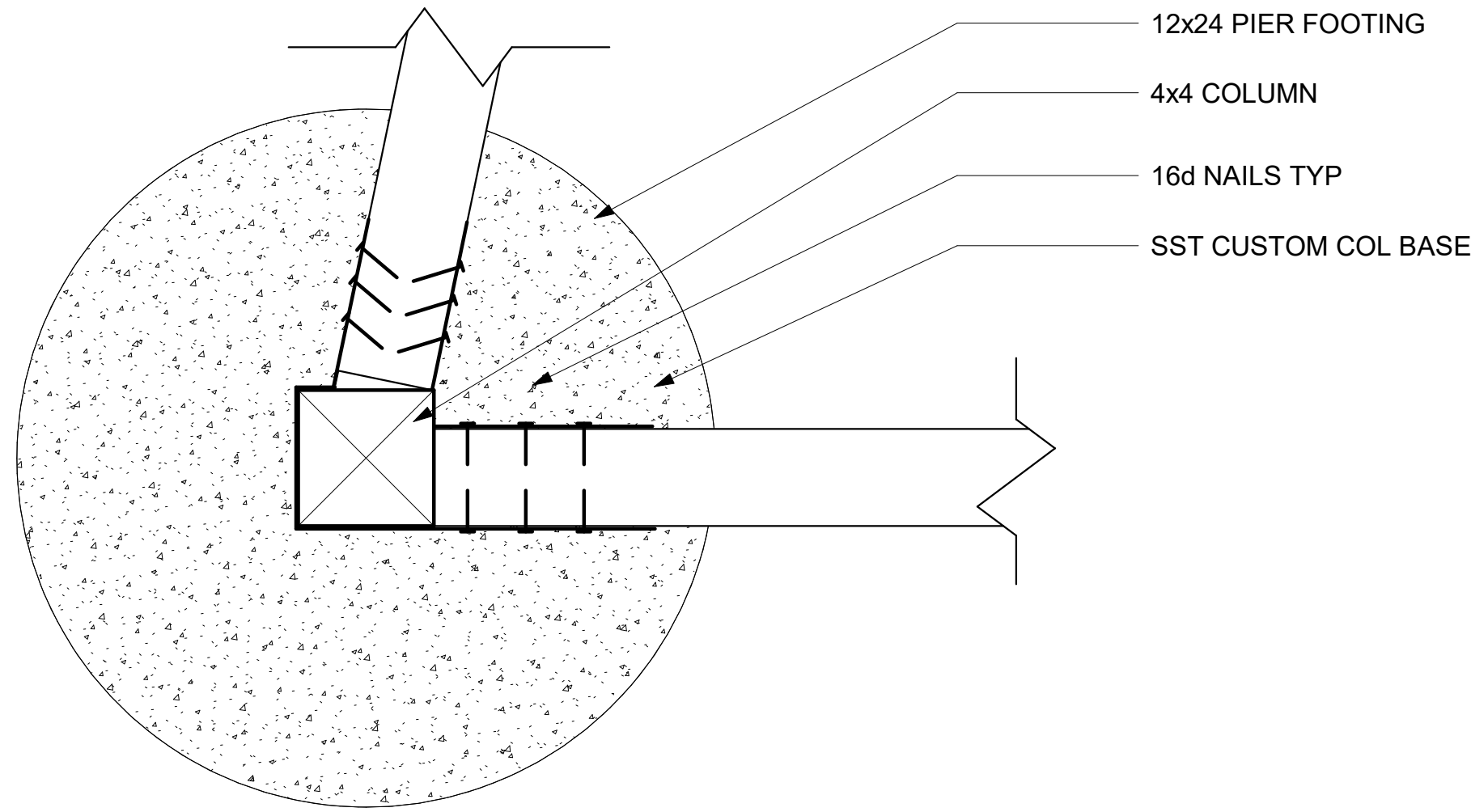




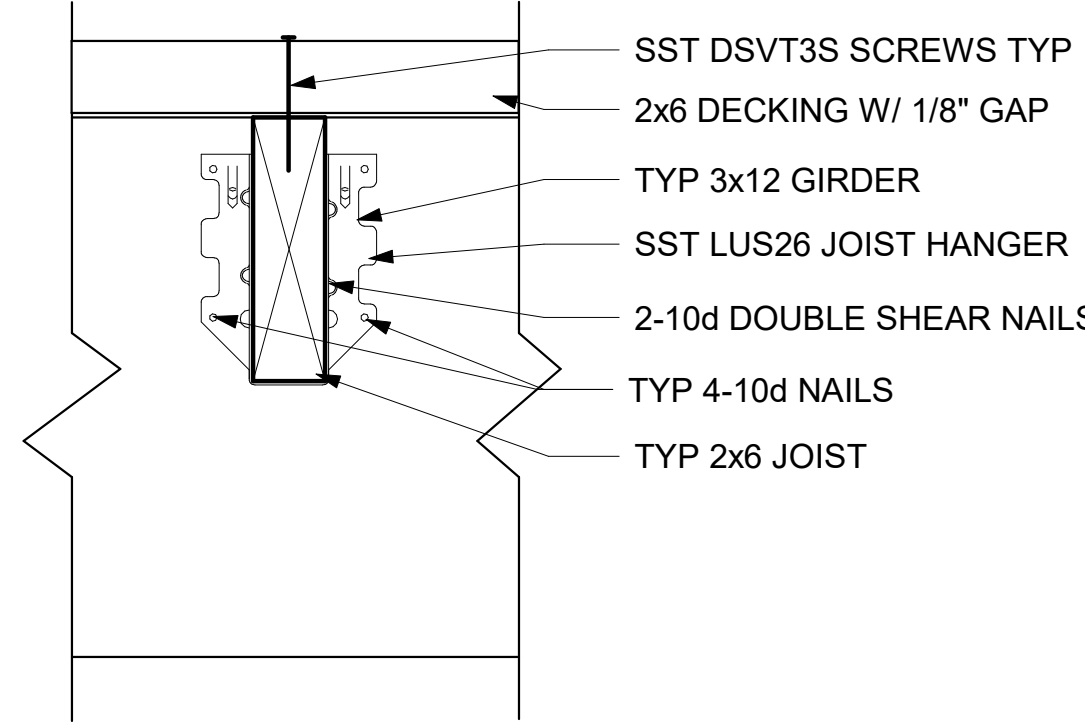
① TYPICAL BEAM TO GIRDER TO COLUMN TO FOOTING @ BACK
3" = 1'-0"



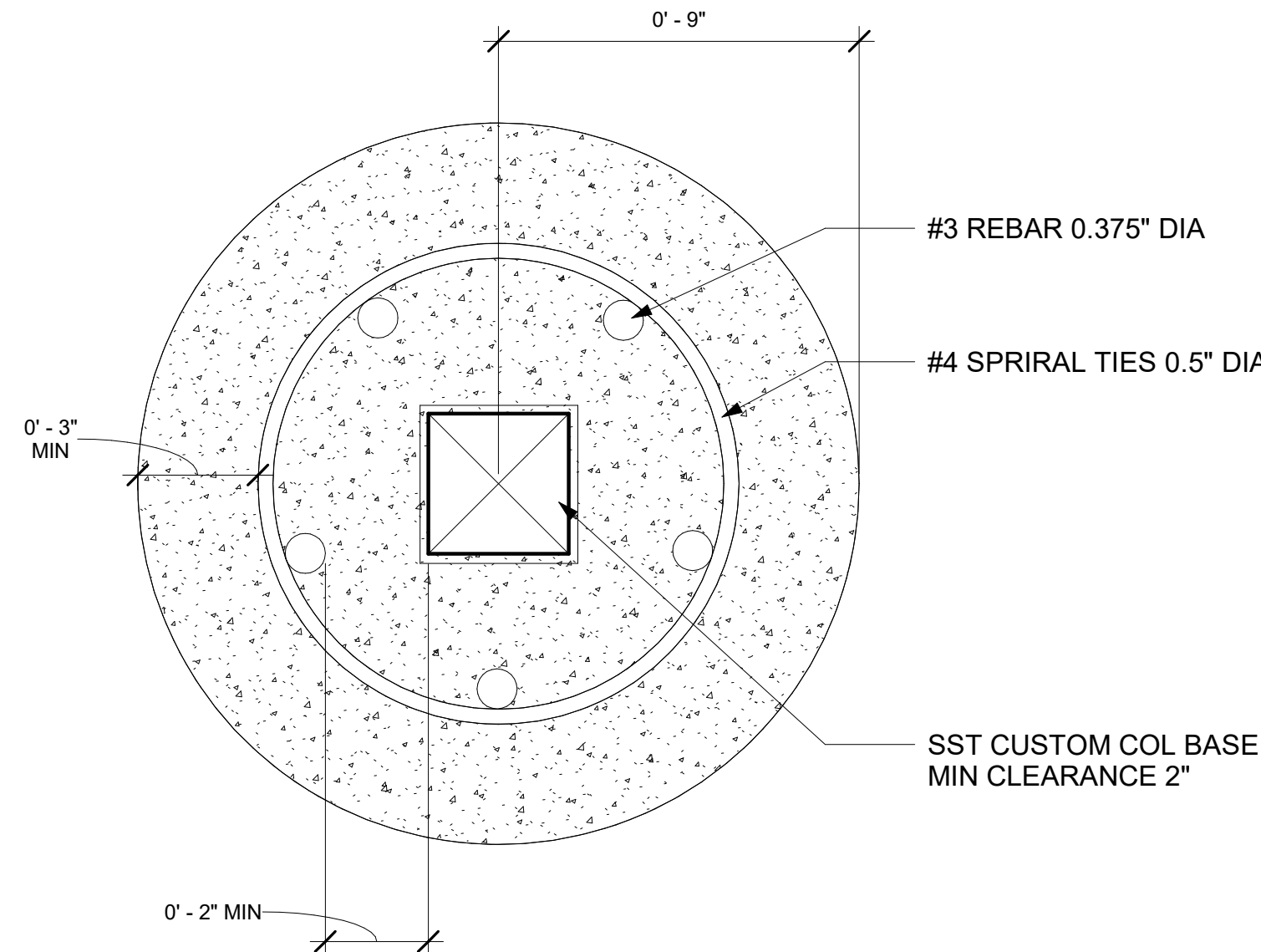
② ANGLED GIRDER TO COLUMN @FRONT
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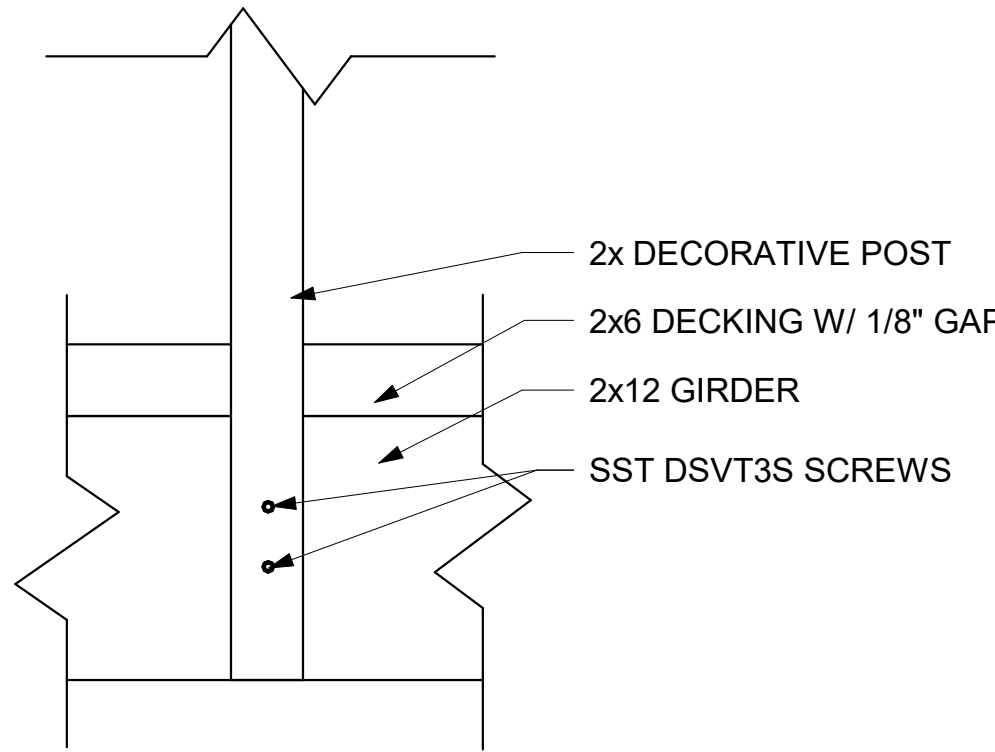
③ TYPICAL JOIST TO GIRDER
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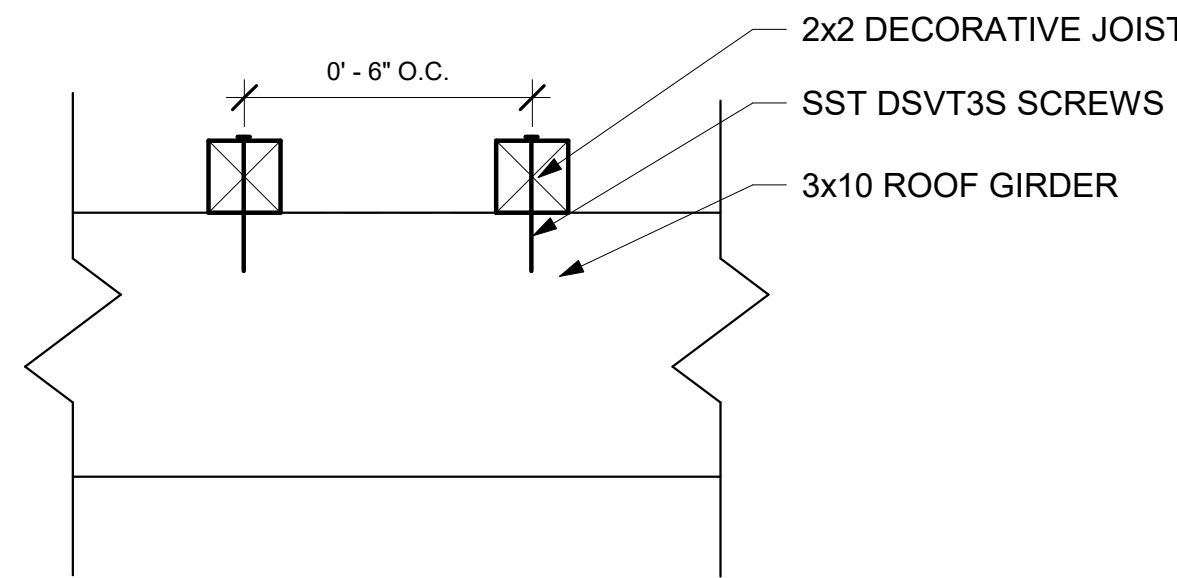
⑦ DECKING TO JOIST
3" = 1'-0"



④ FOOTING DETAILING
3" = 1'-0"



⑤ DECORATIVE POST TO RIM JOIST
3" = 1'-0"



⑥ DECORATIVE JOIST TO ROOF GIRDER
3" = 1'-0"

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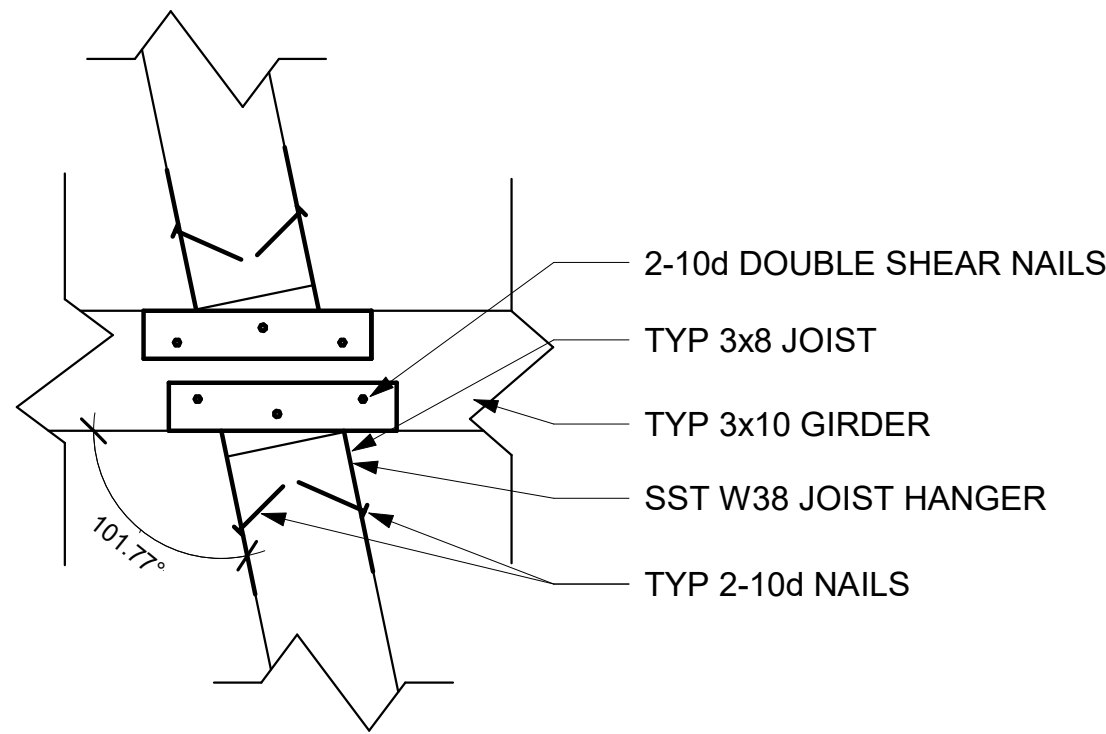
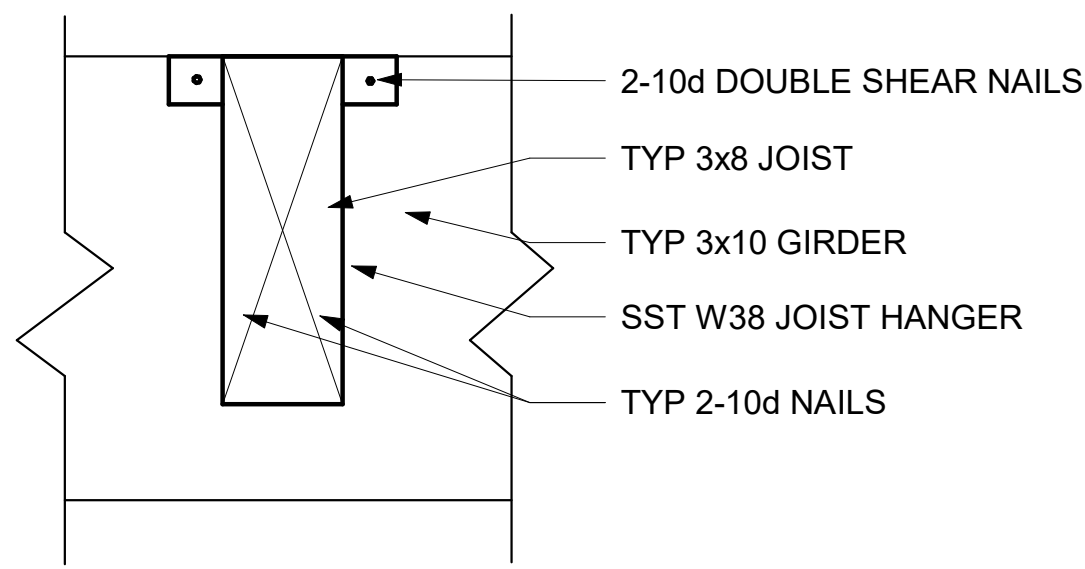
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TITLE: DETAILS

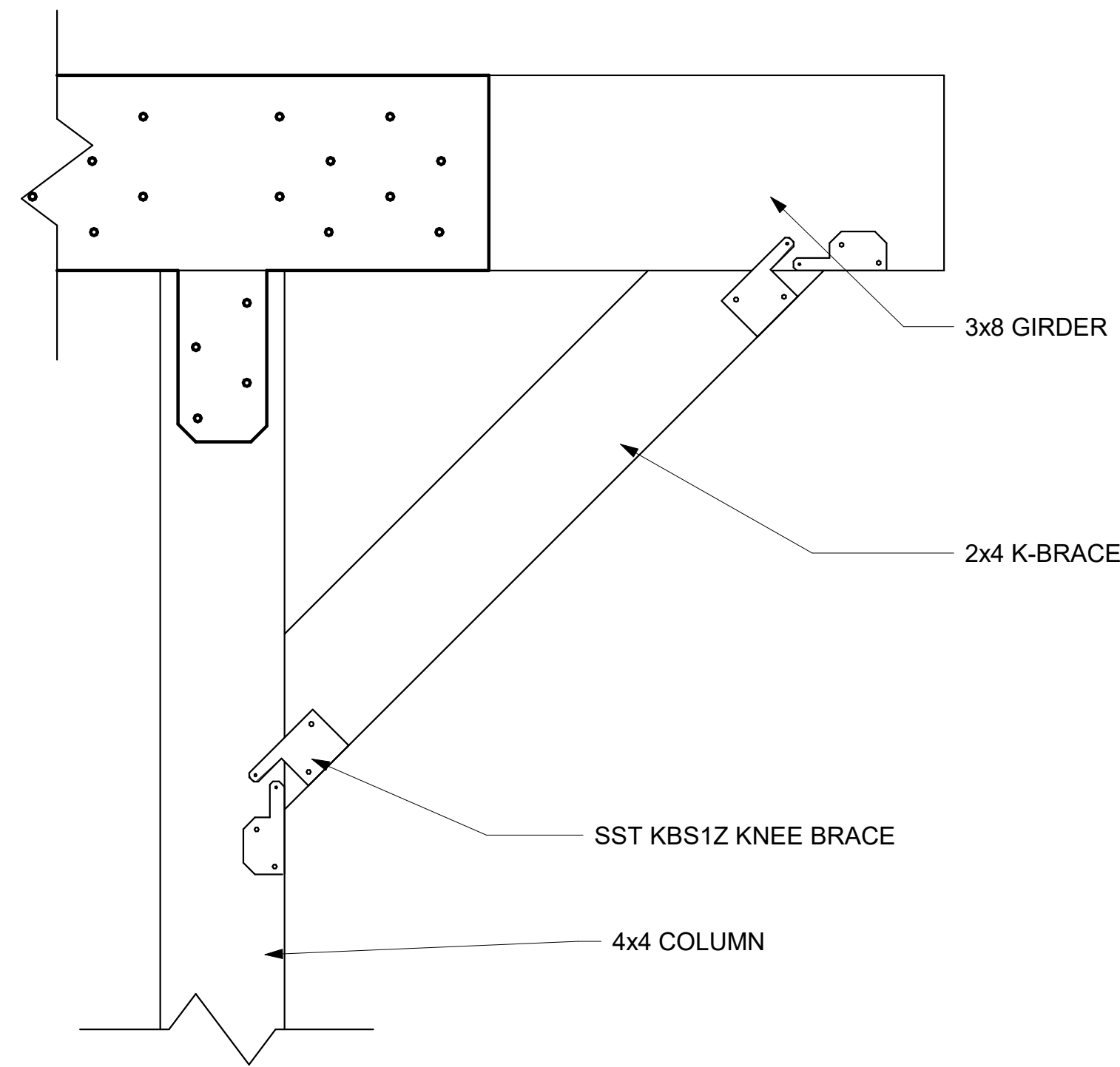
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S4.0

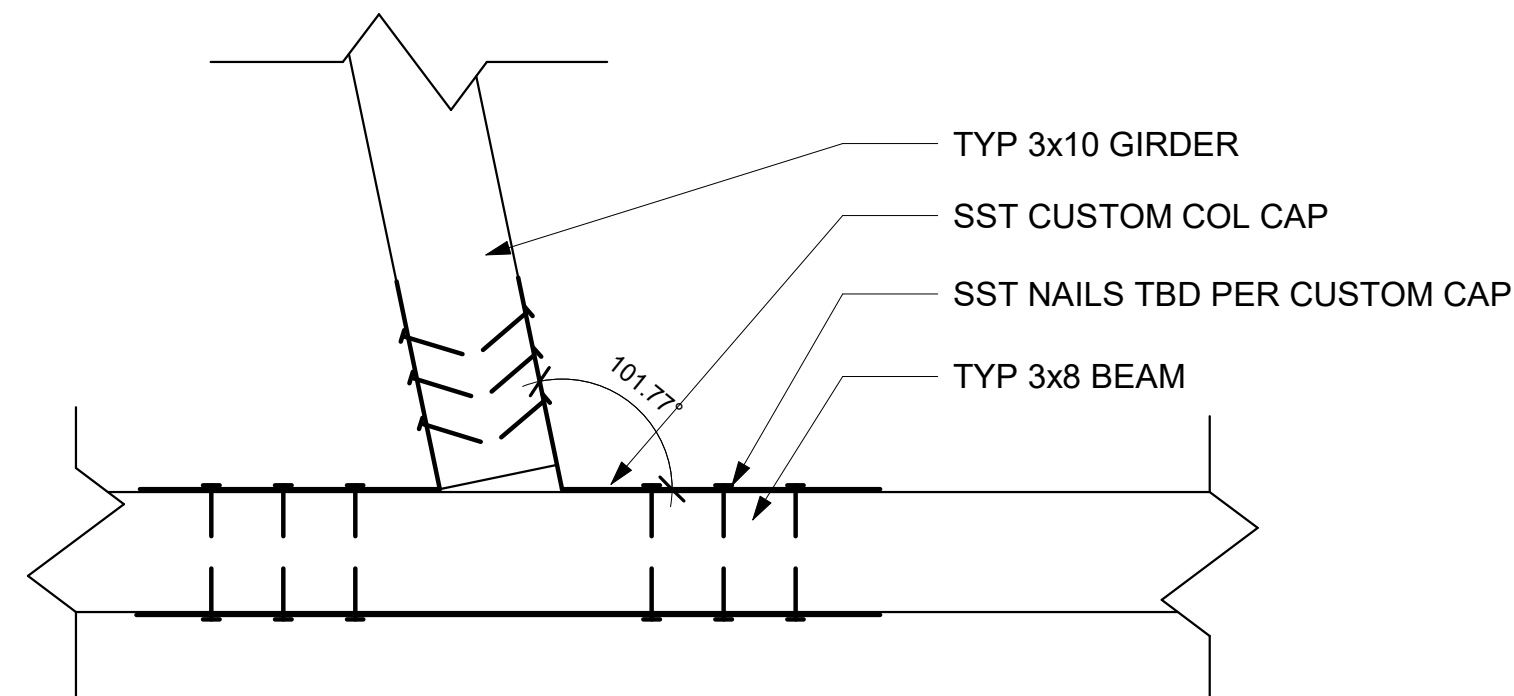
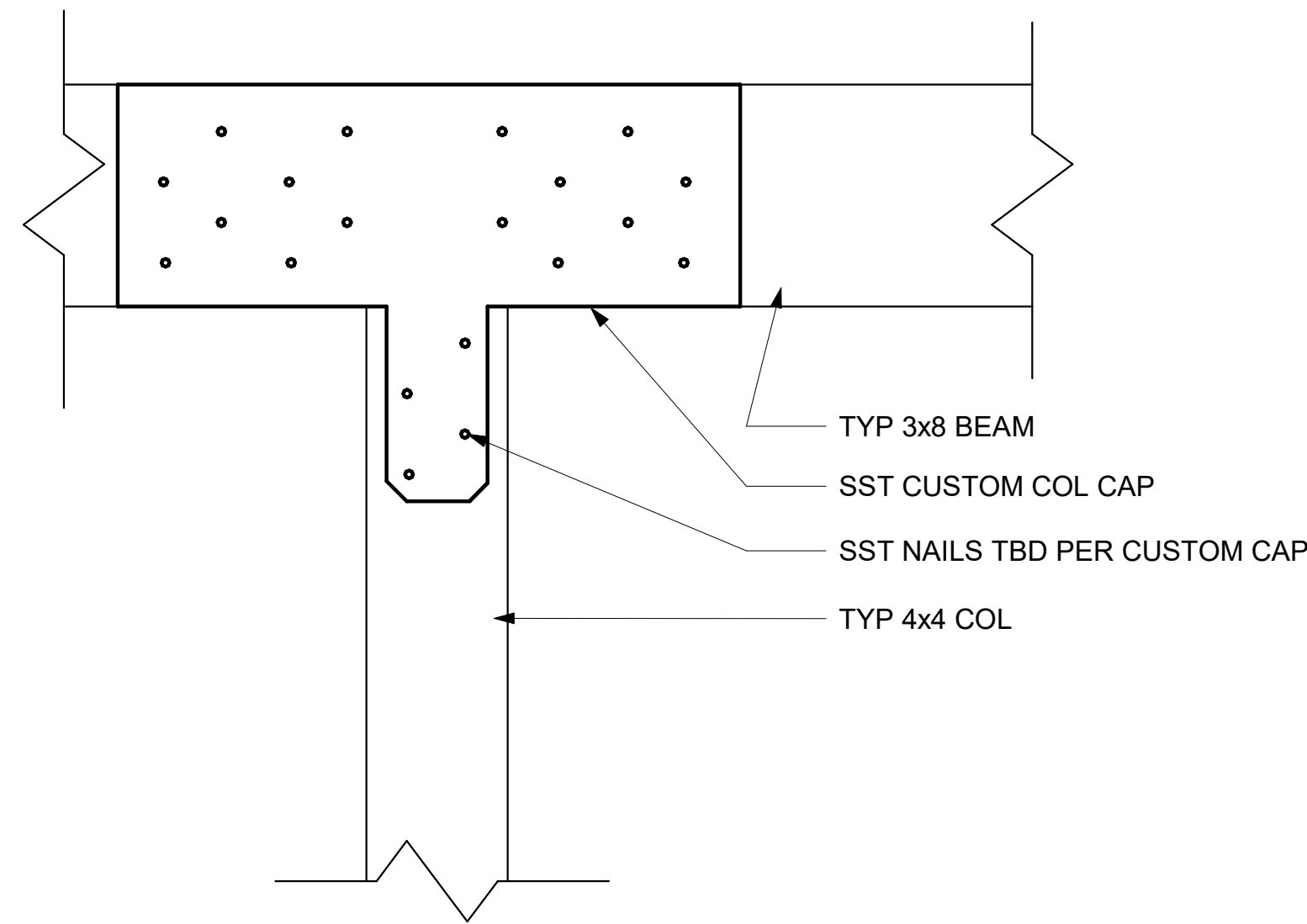
SCALE: 3" = 1'-0"



① ROOF JOIST TO ROOF GIRDER
3" = 1'-0"



③ KICKER DETAIL
3" = 1'-0"



② ROOF GIRDER TO COLUMN
3" = 1'-0"

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SHEET NO.

S4.1

SCALE: 3" = 1'-0"